

1 Structure Data

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

1.1 Story Data

Table 1.1 - Story Definitions

Tower	Name	Height m	Master Story	Similar To	Splice Story	Color
T1	Story5	3.6	Yes	None	No	Cyan
T1	Story4	3.6	Yes	None	No	Magenta
T1	Story3	3.6	No	Story4	No	Gray8Dark
T1	Story2	3.6	No	Story4	No	Green
T1	Story1	3.06	No	Story4	No	Red

1.2 Grid Data

Table 1.2 - Grid Definitions - General

Tower	Name	Type	Ux m	Uy m	Rz deg	Story Range	Bubble Size m	Color
T1	Proyecto de grado	Cartesian	0	0	0	Default	1.25	Gray6

Table 1.3 - Grid Definitions - Grid Lines

Name	Grid Line Type	ID	Ordinate m	Bubble Location	Visible
Proyecto de grado	X (Cartesian)	1	0	End	Yes
Proyecto de grado	X (Cartesian)	2	2.4	End	Yes
Proyecto de grado	X (Cartesian)	3	7.2	End	Yes
Proyecto de grado	X (Cartesian)	4	16.8	End	Yes
Proyecto de grado	X (Cartesian)	5	26.4	End	Yes
Proyecto de grado	X (Cartesian)	6	36	End	Yes
Proyecto de grado	X (Cartesian)	8	45.6	End	Yes
Proyecto de grado	X (Cartesian)	9	47.5	End	Yes
Proyecto de grado	X (Cartesian)	10	55.2	End	Yes
Proyecto de grado	X (Cartesian)	11	60.03	End	Yes
Proyecto de grado	X (Cartesian)	12	64.8	End	Yes
Proyecto de grado	X (Cartesian)	13	72.5	End	Yes
Proyecto de grado	X (Cartesian)	14	75.9	End	Yes
Proyecto de grado	X (Cartesian)	15	84	End	Yes
Proyecto de grado	Y (Cartesian)	E	0	Start	Yes
Proyecto de grado	Y (Cartesian)	F	4.8	Start	Yes
Proyecto de grado	Y (Cartesian)	G	9.6	Start	Yes
Proyecto de grado	Y (Cartesian)	H	19.2	Start	Yes
Proyecto de grado	Y (Cartesian)	I	28.8	Start	Yes
Proyecto de grado	Y (Cartesian)	J	38.4	Start	Yes
Proyecto de grado	Y (Cartesian)	K	43.2	Start	Yes
Proyecto de grado	Y (Cartesian)	L	48	Start	Yes

1.3 Point Coordinates

Table 1.4 - Point Bays

Label	Is Auto Point	X m	Y m	DZBelow m
1	No	46.75	0	0

Label	Is Auto Point	X m	Y m	DZBelow m
2	No	48.25	0	0
3	No	47.2	0	0
5	No	47.8	0	0
6	No	33.38	0	0
7	No	72.5	0	0
8	No	72.5	4.8	0
9	No	72.5	45.6	0
10	No	54.2	0	0
11	No	56.2	0	0
12	No	59.03	0	0
13	No	61.03	0	0
14	No	63.8	0	0
15	No	65.8	0	0
16	No	63.8	4.8	0
17	No	65.8	4.8	0
18	No	59.03	4.8	0
19	No	61.03	4.8	0
20	No	54.9	0	0
21	No	43.625	48	0
22	No	51.375	48	0
23	No	64.8	48	0
24	No	36	43.2	0
25	No	36	48	0
26	No	55.5	0	0
27	No	64.5	0	0
28	No	65.1	0	0
29	No	70	4.8	0
30	No	36	9.6	0
31	No	36	19.2	0
32	No	36	28.8	0
33	No	36	38.4	0
34	No	47.5	45.6	0
35	No	70	0	0
36	No	72.5	48	0
37	No	75	4.8	0
38	No	72.5	38.4	0
39	No	72.5	43.2	0
40	No	7.2	28.8	0
41	No	64.8	28.8	0
42	No	0	48	0
43	No	0	38.4	0
44	No	0	28.8	0
45	No	2.4	19.2	0
46	No	7.2	9.6	0
47	No	7.2	0	0
48	No	16.8	0	0
49	No	26.4	0	0
50	No	36	0	0
51	No	26.4	9.6	0
52	No	16.8	9.6	0
53	No	47.5	4.8	0
54	No	7.2	19.2	0
55	No	16.8	19.2	0
56	No	26.4	19.2	0
57	No	16.8	28.8	0

Label	Is Auto Point	X m	Y m	DZBelow m
58	No	26.4	28.8	0
59	No	7.2	38.4	0
60	No	16.8	38.4	0
61	No	26.4	38.4	0
62	No	7.2	48	0
63	No	16.8	48	0
64	No	26.4	48	0
65	No	45.6	38.4	0
66	No	55.2	38.4	0
67	No	45.6	28.8	0
68	No	45.6	19.2	0
69	No	45.6	9.6	0
70	No	55.2	9.6	0
71	No	55.2	19.2	0
72	No	55.2	28.8	0
73	No	64.8	38.4	0
74	No	64.8	9.6	0
75	No	46.75	43.2	0
76	No	64.8	19.2	0
77	No	48.25	43.2	0
78	No	54.9	43.2	0
79	No	64.8	43.2	0
80	No	60.03	45.6	0
81	No	59.73	43.2	0
82	No	60.33	43.2	0
83	No	55.5	43.2	0
84	No	63.8	43.2	0
85	No	64.5	43.2	0
86	No	70.375	0	0
87	No	65.1	43.2	0
88	No	71.75	43.2	0
89	No	58.98	45.6	0
90	No	74.625	0	0
91	No	47.5	0	0
92	No	43.2	0	0
93	No	43.2	4.8	0
94	No	37.9	4.8	0
95	No	37.9	0	0
96	No	33.35	4.8	0
97	No	26.4	4.8	0
98	No	36	4.8	0
99	No	84	43.2	0
100	No	55.2	4.8	0
101	No	64.8	4.8	0
102	No	45.6	43.2	0
103	No	55.2	43.2	0
104	No	43.2	43.2	0
105	No	43.2	48	0
106	No	37.9	48	0
107	No	37.9	43.2	0
108	No	55.2	48	0
109	No	72.5	9.6	0
110	No	75.9	48	0
111	No	55.2	0	0
112	No	71.25	43.2	0

Label	Is Auto Point	X m	Y m	DZBelow m
113	No	73.75	43.2	0
114	No	46.75	48	0
115	No	43.2	38.4	0
116	No	43.2	9.6	0
117	No	64.8	0	0
118	No	48.25	48	0
119	No	60.03	0	0
120	No	61.8	48	0
121	No	67.8	48	0
122	No	45.6	4.8	0
123	No	75.9	0	0
124	No	73.25	43.2	0
125	No	47.5	43.2	0
126	No	47.5	48	0
127	No	60.03	43.2	0
128	No	46.5	43.2	0
129	No	48.5	43.2	0
130	No	60.03	48	0
131	No	46.75	4.8	0
132	No	48.25	4.8	0
133	No	72.5	28.8	0
134	No	84	9.6	0
135	No	72.5	19.2	0
136	No	75.9	43.2	0
137	No	84	48	0
138	Yes	60.2986	24.0648	0
139	Yes	60.1739	24.0377	0
140	Yes	55.925	30.2063	0
141	Yes	54.2868	29.6172	0
142	Yes	55.496	28.488	0
143	No	61.08	45.6	0
144	Yes	54.0858	28.1163	0
145	No	84	0	0
146	No	84	4.8	0
147	Yes	60.4521	31.9161	0
148	Yes	60.1909	32.2435	0
149	Yes	36.6426	25.8946	0
150	Yes	35.6749	25.5969	0
151	No	54.2	4.8	0
152	No	56.2	4.8	0
163	No	75.9	4.8	0
170	No	84	19.2	0
173	No	84	28.8	0
174	No	84	38.4	0
180	No	60.03	4.8	0
182	No	78.45	38.4	0
183	No	78.45	28.8	0
184	No	78.45	19.2	0
185	No	78.45	9.6	0
186	No	82.8	38.4	0
187	No	85.2	38.4	0
188	No	82.8	28.8	0
189	No	85.2	28.8	0
190	No	82.8	19.2	0
191	No	85.2	19.2	0

Label	Is Auto Point	X m	Y m	DZBelow m
192	No	82.8	9.6	0
193	No	85.2	9.6	0
209	No	51.8	4.8	0
210	No	58.6	4.8	0
211	No	43.57	43.2	0
212	No	51.43	43.2	0
215	No	53.95	43.2	0
216	No	56.45	43.2	0
217	No	63.55	43.2	0
218	No	66.05	43.2	0

1.4 Line Connectivity

Table 1.5 - Column Bays

Label	PointBayI	PointBayJ	IEndStory
C2	100	100	Below
C3	6	6	Below
C4	180	180	Below
C5	101	101	Below
C6	182	182	Below
C7	183	183	Below
C8	184	184	Below
C9	185	185	Below
C10	134	134	Below
C11	170	170	Below
C12	173	173	Below
C13	174	174	Below
C14	41	41	Below
C30	30	30	Below
C31	31	31	Below
C32	32	32	Below
C33	33	33	Below
C40	42	42	Below
C41	43	43	Below
C42	44	44	Below
C43	45	45	Below
C44	46	46	Below
C45	47	47	Below
C46	48	48	Below
C47	49	49	Below
C49	51	51	Below
C50	52	52	Below
C52	54	54	Below
C53	55	55	Below
C54	56	56	Below
C55	40	40	Below
C56	57	57	Below
C57	58	58	Below
C58	59	59	Below
C59	60	60	Below
C60	61	61	Below
C61	62	62	Below
C62	63	63	Below
C63	64	64	Below
C64	65	65	Below

Label	PointBayI	PointBayJ	IEndStory
C65	66	66	Below
C66	67	67	Below
C67	68	68	Below
C68	69	69	Below
C69	70	70	Below
C70	71	71	Below
C71	72	72	Below
C72	73	73	Below
C73	74	74	Below
C75	76	76	Below

Table 1.6 - Beam Bays

Label	PointBayI	PointBayJ
B1	72	41
B2	76	41
B3	47	48
B4	48	49
B5	46	52
B6	52	51
B7	51	30
B8	92	93
B9	73	79
B10	6	96
B11	69	70
B12	70	74
B13	30	69
B14	45	54
B15	54	55
B16	55	56
B17	56	31
B18	31	68
B19	68	71
B20	71	76
B21	44	40
B22	40	57
B23	57	58
B24	58	32
B25	32	67
B26	67	72
B27	71	72
B28	43	59
B29	59	60
B30	60	61
B31	61	33
B32	33	65
B33	65	66
B34	66	73
B35	47	46
B36	45	46
B37	44	45
B38	44	43
B39	43	42
B40	42	62
B41	62	63
B42	63	64
B43	64	25

Label	PointBayI	PointBayJ
B44	59	62
B45	40	59
B46	54	40
B47	46	54
B48	48	52
B49	52	55
B50	55	57
B51	57	60
B52	60	63
B53	61	64
B54	58	61
B55	56	58
B56	51	56
B57	49	51
B58	98	30
B59	30	31
B60	31	32
B61	32	33
B62	33	24
B63	67	65
B64	68	67
B65	69	68
B66	93	53
B67	72	66
B68	41	73
B69	70	71
B70	100	70
B71	91	53
B72	111	100
B73	74	76
B74	101	74
B75	65	102
B76	119	180
B77	66	103
B78	53	100
B79	100	180
B80	180	101
B81	119	117
B82	111	119
B83	91	111
B84	92	91
B85	122	69
B86	104	105
B87	125	126
B88	105	126
B89	6	50
B90	97	98
B91	104	125
B92	212	103
B93	103	127
B94	127	79
B95	79	39
B96	79	23
B97	23	110
B98	127	80
B99	80	130

Label	PointBayI	PointBayJ
B100	126	23
B101	125	103
B102	39	136
B103	39	36
B104	136	110
B105	117	101
B106	7	8
B107	123	163
B108	117	7
B109	7	123
B110	101	8
B111	8	163
B112	183	173
B113	182	174
B114	184	170
B115	185	134
B116	111	117
B123	115	104
B124	93	116
B138	69	65
B141	122	102
B145	100	103
B149	101	79
B153	8	39
B157	146	99
B161	33	174
B165	32	173
B169	31	170
B173	30	134
B177	98	24

1.5 Area Connectivity

Table 1.7 - Floor Bays

Label	NumPoints	PointNumber	PointBay
F1	4	1	25
F1		2	105
F1		3	104
F1		4	24
F2	4	1	98
F2		2	93
F2		3	92
F2		4	50
F3	4	1	24
F3		2	104
F3		3	105
F3		4	25
F4	4	1	50
F4		2	92
F4		3	93
F4		4	98
F5	5	1	64
F5		2	25
F5		3	24
F5		4	33
F5		5	61

Label	NumPoints	PointNumber	PointBay
F6	5	1	126
F6		2	36
F6		3	9
F6		4	80
F6		5	34
F7	4	1	43
F7		2	59
F7		3	62
F7		4	42
F8	4	1	59
F8		2	60
F8		3	63
F8		4	62
F9	4	1	60
F9		2	61
F9		3	64
F9		4	63
F10	4	1	33
F10		2	65
F10		3	102
F10		4	24
F11	5	1	34
F11		2	80
F11		3	9
F11		4	39
F11		5	125
F12	4	1	105
F12		2	126
F12		3	125
F12		4	104
F13	4	1	104
F13		2	125
F13		3	126
F13		4	105
F14	4	1	93
F14		2	53
F14		3	91
F14		4	92
F15	4	1	100
F15		2	180
F15		3	119
F15		4	111
F16	4	1	73
F16		2	38
F16		3	39
F16		4	79
F17	4	1	41
F17		2	133
F17		3	38
F17		4	73
F18	4	1	29
F18		2	35
F18		3	123
F18		4	163
F19	4	1	110
F19		2	137

Label	NumPoints	PointNumber	PointBay
F19		3	99
F19		4	136
F20	4	1	36
F20		2	110
F20		3	136
F20		4	39
F21	4	1	92
F21		2	91
F21		3	53
F21		4	93
F22	4	1	91
F22		2	111
F22		3	100
F22		4	53
F23	4	1	111
F23		2	119
F23		3	180
F23		4	100
F24	4	1	119
F24		2	117
F24		3	101
F24		4	180
F25	4	1	136
F25		2	99
F25		3	137
F25		4	110
F26	4	1	39
F26		2	136
F26		3	110
F26		4	36
F27	4	1	76
F27		2	135
F27		3	133
F27		4	41
F28	4	1	74
F28		2	109
F28		3	135
F28		4	76
F29	4	1	101
F29		2	8
F29		3	109
F29		4	74
F30	4	1	104
F30		2	115
F30		3	65
F30		4	102
F31	4	1	117
F31		2	7
F31		3	8
F31		4	101
F32	4	1	40
F32		2	57
F32		3	60
F32		4	59
F33	4	1	57
F33		2	58

Label	NumPoints	PointNumber	PointBay
F33		3	61
F33		4	60
F34	4	1	58
F34		2	32
F34		3	33
F34		4	61
F35	4	1	56
F35		2	31
F35		3	32
F35		4	58
F36	4	1	55
F36		2	56
F36		3	58
F36		4	57
F37	4	1	54
F37		2	55
F37		3	57
F37		4	40
F38	4	1	46
F38		2	52
F38		3	55
F38		4	54
F39	4	1	52
F39		2	51
F39		3	56
F39		4	55
F40	4	1	51
F40		2	30
F40		3	31
F40		4	56
F41	4	1	44
F41		2	40
F41		3	59
F41		4	43
F42	4	1	45
F42		2	54
F42		3	40
F42		4	44
F43	3	1	46
F43		2	54
F43		3	45
F44	4	1	6
F44		2	50
F44		3	98
F44		4	96
F45	4	1	97
F45		2	98
F45		3	30
F45		4	51
F46	4	1	47
F46		2	48
F46		3	52
F46		4	46
F47	4	1	48
F47		2	49
F47		3	51

Label	NumPoints	PointNumber	PointBay
F47		4	52
F48	4	1	69
F48		2	70
F48		3	71
F48		4	68
F49	4	1	122
F49		2	100
F49		3	70
F49		4	69
F50	4	1	98
F50		2	122
F50		3	69
F50		4	30
F51	4	1	100
F51		2	101
F51		3	74
F51		4	70
F52	4	1	70
F52		2	74
F52		3	76
F52		4	71
F53	4	1	71
F53		2	76
F53		3	41
F53		4	72
F54	4	1	68
F54		2	71
F54		3	72
F54		4	67
F55	4	1	67
F55		2	72
F55		3	66
F55		4	65
F56	4	1	72
F56		2	41
F56		3	73
F56		4	66
F57	4	1	65
F57		2	66
F57		3	103
F57		4	102
F58	4	1	66
F58		2	73
F58		3	79
F58		4	103
F59	4	1	32
F59		2	67
F59		3	65
F59		4	33
F60	4	1	31
F60		2	68
F60		3	67
F60		4	32
F61	4	1	30
F61		2	69
F61		3	68

Label	NumPoints	PointNumber	PointBay
F61		4	31
F62	4	1	7
F62		2	123
F62		3	163
F62		4	8
F63	4	1	123
F63		2	145
F63		3	146
F63		4	163
F64	4	1	125
F64		2	103
F64		3	108
F64		4	126
F66	4	1	103
F66		2	127
F66		3	130
F66		4	108
F67	4	1	127
F67		2	79
F67		3	23
F67		4	130
F68	4	1	79
F68		2	39
F68		3	36
F68		4	23
F69	4	1	115
F69		2	65
F69		3	102
F69		4	104
F70	4	1	93
F70		2	122
F70		3	69
F70		4	116
F85	4	1	38
F85		2	174
F85		3	99
F85		4	39
F86	4	1	69
F86		2	122
F86		3	100
F86		4	70
F87	4	1	133
F87		2	173
F87		3	174
F87		4	38
F88	4	1	135
F88		2	170
F88		3	173
F88		4	133
F89	4	1	109
F89		2	134
F89		3	170
F89		4	135
F90	4	1	8
F90		2	146
F90		3	134

Label	NumPoints	PointNumber	PointBay
F90		4	109

Table 1.8 - Wall Bays

Label	NumPoints	PointNumber	PointBay	PointStory
W1	4	1	3	Below
W1		2	5	Below
W1		3	5	Same
W1		4	3	Same
W2	4	1	22	Below
W2		2	118	Below
W2		3	118	Same
W2		4	22	Same
W3	4	1	20	Below
W3		2	26	Below
W3		3	26	Same
W3		4	20	Same
W4	4	1	21	Below
W4		2	114	Below
W4		3	114	Same
W4		4	21	Same
W6	4	1	12	Below
W6		2	13	Below
W6		3	13	Same
W6		4	12	Same
W8	4	1	16	Below
W8		2	17	Below
W8		3	17	Same
W8		4	16	Same
W9	4	1	18	Below
W9		2	19	Below
W9		3	19	Same
W9		4	18	Same
W10	4	1	129	Below
W10		2	77	Below
W10		3	77	Same
W10		4	129	Same
W11	4	1	27	Below
W11		2	28	Below
W11		3	28	Same
W11		4	27	Same
W12	4	1	24	Below
W12		2	25	Below
W12		3	25	Same
W12		4	24	Same
W13	4	1	81	Below
W13		2	82	Below
W13		3	82	Same
W13		4	81	Same
W14	4	1	36	Below
W14		2	121	Below
W14		3	121	Same
W14		4	36	Same
W15	4	1	128	Below
W15		2	75	Below
W15		3	75	Same
W15		4	128	Same

Label	NumPoints	PointNumber	PointBay	PointStory
W16	4	1	212	Below
W16		2	77	Below
W16		3	77	Same
W16		4	212	Same
W17	4	1	39	Below
W17		2	36	Below
W17		3	36	Same
W17		4	39	Same
W18	4	1	75	Below
W18		2	77	Below
W18		3	77	Same
W18		4	75	Same
W19	4	1	211	Below
W19		2	75	Below
W19		3	75	Same
W19		4	211	Same
W20	4	1	78	Below
W20		2	83	Below
W20		3	83	Same
W20		4	78	Same
W21	4	1	85	Below
W21		2	87	Below
W21		3	87	Same
W21		4	85	Same
W22	4	1	89	Below
W22		2	143	Below
W22		3	143	Same
W22		4	89	Same
W23	4	1	216	Below
W23		2	83	Below
W23		3	83	Same
W23		4	216	Same
W24	4	1	2	Below
W24		2	5	Below
W24		3	5	Same
W24		4	2	Same
W25	4	1	1	Below
W25		2	3	Below
W25		3	3	Same
W25		4	1	Same
W26	4	1	101	Below
W26		2	117	Below
W26		3	117	Same
W26		4	101	Same
W29	4	1	215	Below
W29		2	78	Below
W29		3	78	Same
W29		4	215	Same
W30	4	1	78	Below
W30		2	215	Below
W30		3	215	Same
W30		4	78	Same
W32	4	1	29	Below
W32		2	37	Below
W32		3	37	Same
W32		4	29	Same

Label	NumPoints	PointNumber	PointBay	PointStory
W33	4	1	218	Below
W33		2	87	Below
W33		3	87	Same
W33		4	218	Same
W34	4	1	217	Below
W34		2	85	Below
W34		3	85	Same
W34		4	217	Same
W35	4	1	210	Below
W35		2	152	Below
W35		3	152	Same
W35		4	210	Same
W36	4	1	92	Below
W36		2	50	Below
W36		3	50	Same
W36		4	92	Same
W37	4	1	88	Below
W37		2	124	Below
W37		3	124	Same
W37		4	88	Same
W38	4	1	113	Below
W38		2	124	Below
W38		3	124	Same
W38		4	113	Same
W39	4	1	112	Below
W39		2	88	Below
W39		3	88	Same
W39		4	112	Same
W40	4	1	209	Below
W40		2	151	Below
W40		3	151	Same
W40		4	209	Same
W41	4	1	145	Below
W41		2	146	Below
W41		3	146	Same
W41		4	145	Same
W42	4	1	11	Below
W42		2	26	Below
W42		3	26	Same
W42		4	11	Same
W43	4	1	10	Below
W43		2	20	Below
W43		3	20	Same
W43		4	10	Same
W44	4	1	151	Below
W44		2	152	Below
W44		3	152	Same
W44		4	151	Same
W45	4	1	15	Below
W45		2	28	Below
W45		3	28	Same
W45		4	15	Same
W46	4	1	27	Below
W46		2	14	Below
W46		3	14	Same
W46		4	27	Same

Label	NumPoints	PointNumber	PointBay	PointStory
W52	4	1	50	Below
W52		2	98	Below
W52		3	98	Same
W52		4	50	Same
W55	4	1	186	Below
W55		2	187	Below
W55		3	187	Same
W55		4	186	Same
W56	4	1	188	Below
W56		2	189	Below
W56		3	189	Same
W56		4	188	Same
W57	4	1	190	Below
W57		2	191	Below
W57		3	191	Same
W57		4	190	Same
W58	4	1	192	Below
W58		2	193	Below
W58		3	193	Same
W58		4	192	Same
W65	4	1	98	Below
W65		2	93	Below
W65		3	93	Same
W65		4	98	Same
W66	4	1	131	Below
W66		2	132	Below
W66		3	132	Same
W66		4	131	Same
W68	4	1	104	Below
W68		2	24	Below
W68		3	24	Same
W68		4	104	Same
W69	4	1	25	Below
W69		2	105	Below
W69		3	105	Same
W69		4	25	Same
W74	4	1	86	Below
W74		2	90	Below
W74		3	90	Same
W74		4	86	Same
W75	4	1	136	Below
W75		2	99	Below
W75		3	99	Same
W75		4	136	Same
W76	4	1	99	Below
W76		2	137	Below
W76		3	137	Same
W76		4	99	Same
W77	4	1	137	Below
W77		2	110	Below
W77		3	110	Same
W77		4	137	Same
W79	4	1	114	Below
W79		2	118	Below
W79		3	118	Same
W79		4	114	Same

Label	NumPoints	PointNumber	PointBay	PointStory
W80	4	1	120	Below
W80		2	121	Below
W80		3	121	Same
W80		4	120	Same
W81	4	1	123	Below
W81		2	145	Below
W81		3	145	Same
W81		4	123	Same
W82	4	1	146	Below
W82		2	163	Below
W82		3	163	Same
W82		4	146	Same

1.6 Mass

Table 1.9 - Mass Source Definition

Name	Is Default	Include Lateral Mass?	Include Vertical Mass?	Lump Mass?	Source Self Mass?	Source Added Mass?	Source Load Patterns?	Move Mass Centroid?	Load Pattern	Multiplier
MASA SISMICA	Yes	Yes	No	Yes	No	No	Yes	No	Dead	1
MASA SISMICA									SD	1
MASA SISMICA									Live	0.25
MsSrc1	No	Yes	No	Yes	Yes	Yes	No	No		

Table 1.10 - Centers Of Mass And Rigidity

Story	Diaphragm	Mass X tonf-s2/m	Mass Y tonf-s2/m	XCM m	YCM m	Cum Mass X tonf-s2/m	Cum Mass Y tonf-s2/m	XCCM m	YCCM m	XCR m	YCR m
Story1	D1	383.91016	383.91016	35.6749	25.5969	383.91016	383.91016	35.6749	25.5969		
Story2	D2	68.06772	68.06772	60.1909	32.2435	68.06772	68.06772	60.1909	32.2435		
Story3	D3	103.22378	103.22378	54.0858	28.1163	103.22378	103.22378	54.0858	28.1163		
Story4	D4	97.81821	97.81821	54.2868	29.6172	97.81821	97.81821	54.2868	29.6172		
Story5	D5	236.64236	236.64236	60.1739	24.0377	236.64236	236.64236	60.1739	24.0377		

Table 1.11 - Mass Summary by Diaphragm

Story	Diaphragm	Mass X tonf-s2/m	Mass Y tonf-s2/m	Mass Moment of Inertia tonf-m-s2	X Mass Center m	Y Mass Center m
Story5	D5	236.64236	236.64236	105888.0798	60.1739	24.0377
Story4	D4	97.81821	97.81821	54469.9516	54.2868	29.6172
Story3	D3	103.22378	103.22378	58487.2728	54.0858	28.1163
Story2	D2	68.06772	68.06772	42072.4564	60.1909	32.2435
Story1	D1	383.91016	383.91016	228006.6679	35.6749	25.5969

Table 1.12 - Mass Summary by Story

Story	UX tonf-s2/m	UY tonf-s2/m	UZ tonf-s2/m
Story5	236.64236	236.64236	0
Story4	109.84787	109.84787	0
Story3	115.21016	115.21016	0
Story2	86.08485	86.08485	0

Story	UX tonf-s2/m	UY tonf-s2/m	UZ tonf-s2/m
Story1	397.25009	397.25009	0
Base	24.66548	24.66548	0

Table 1.13 - Mass Summary by Group

Group	Self Mass tonf-s2/m	Self Weight tonf	Mass X tonf-s2/m	Mass Y tonf-s2/m	Mass Z tonf-s2/m
All	0	6369.41872	969.70081	969.70081	0
Wallstack1	0	0	0	0	0
Wallstack2	0	0	0	0	0
Wallstack3	0	0	0	0	0
Wallstack4	0	4.41148	0.44985	0.44985	0
Wallstack5	0	0	0	0	0
Wallstack6	0	0	0	0	0
Wallstack7	0	4.41148	0.44985	0.44985	0
Wallstack8	0	0	0	0	0
Wallstack9	0	24.91191	2.54031	2.54031	0
Wallstack10	0	24.91191	2.54031	2.54031	0
Wallstack11	0	0	0	0	0
Wallstack12	0	0	0	0	0
Wallstack13	0	0	0	0	0
Wallstack14	0	0	0	0	0
Wallstack15	0	0	0	0	0
Wallstack16	0	0	0	0	0
Wallstack17	0	0	0	0	0
Wallstack18	0	10.58756	1.07963	1.07963	0
Wallstack19	0	0	0	0	0
Wallstack20	0	0	0	0	0
Wallstack21	0	0	0	0	0
Wallstack22	0	0	0	0	0
Wallstack23	0	0	0	0	0
Wallstack24	0	0	0	0	0
Wallstack25	0	0	0	0	0
Wallstack26	0	0	0	0	0
Wallstack27	0	0	0	0	0
Wallstack28	0	0	0	0	0
Wallstack29	0	0	0	0	0
Wallstack30	0	0	0	0	0
Wallstack31	0	0	0	0	0
Wallstack32	0	0	0	0	0
Wallstack33	0	0	0	0	0
Wallstack34	0	0	0	0	0
Wallstack35	0	5.44948	0.55569	0.55569	0
Wallstack36	0	0	0	0	0
Wallstack37	0	0	0	0	0
Wallstack38	0	0	0	0	0
Wallstack39	0	0	0	0	0
Wallstack40	0	0	0	0	0
Wallstack41	0	0	0	0	0
Wallstack42	0	0	0	0	0
Wallstack43	0	0	0	0	0
Wallstack44	0	0	0	0	0
Wallstack45	0	0	0	0	0
Wallstack46	0	0	0	0	0
Wallstack47	0	0	0	0	0

Group	Self Mass tonf-s2/m	Self Weight tonf	Mass X tonf-s2/m	Mass Y tonf-s2/m	Mass Z tonf-s2/m
Wallstack48	0	0	0	0	0
Wallstack49	0	12.45596	1.27015	1.27015	0
Wallstack50	0	0	0	0	0
Wallstack51	0	0	0	0	0
Wallstack52	0	0	0	0	0
Wallstack53	0	0	0	0	0
Wallstack54	0	0	0	0	0
Wallstack55	0	0	0	0	0
Wallstack56	0	0	0	0	0
Wallstack57	0	0	0	0	0
Wallstack58	0	0	0	0	0
Wallstack59	0	0	0	0	0
Wallstack60	0	0	0	0	0
Wallstack61	0	0	0	0	0
Wallstack62	0	0	0	0	0
Wallstack63	0	6.22798	0.63508	0.63508	0
Wallstack64	0	6.22798	0.63508	0.63508	0
Wallstack65	0	6.22798	0.63508	0.63508	0
Wallstack66	0	6.22798	0.63508	0.63508	0
Wallstack67	0	0	0	0	0
Wallstack68	0	0	0	0	0
Wallstack69	0	0	0	0	0
Wallstack70	0	0	0	0	0
Wallstack71	0	0	0	0	0
Wallstack72	0	0	0	0	0
Wallstack73	0	0	0	0	0
Wallstack74	0	0	0	0	0
Wallstack75	0	0	0	0	0
Wallstack76	0	0	0	0	0
Wallstack77	0	0	0	0	0
Wallstack78	0	0	0	0	0
Wallstack79	0	0	0	0	0
Wallstack80	0	0	0	0	0
Wallstack81	0	191.82174	19.56037	19.56037	0
Wallstack82	0	0	0	0	0
Wallstack83	0	0	0	0	0
Wallstack84	0	7.2011	0.73431	0.73431	0
Wallstack85	0	0	0	0	0
Wallstack86	0	141.99791	14.47976	14.47976	0
Wallstack87	0	0	0	0	0
Wallstack88	0	0	0	0	0
Wallstack89	0	26.42998	2.69511	2.69511	0
Wallstack90	0	0	0	0	0
Wallstack91	0	0	0	0	0
Wallstack92	0	0	0	0	0
Wallstack93	0	0	0	0	0
Wallstack94	0	10.58756	1.07963	1.07963	0
Wallstack95	0	3.30861	0.33738	0.33738	0
Wallstack96	0	11.09359	1.13123	1.13123	0
Wallstack97	0	0	0	0	0
Wallstack98	0	9.60147	0.97908	0.97908	0
Wallstack99	0	0	0	0	0
Wallstack100	0	9.60147	0.97908	0.97908	0
Wallstack101	0	9.60147	0.97908	0.97908	0
Wallstack102	0	9.60147	0.97908	0.97908	0

Group	Self Mass tonf-s2/m	Self Weight tonf	Mass X tonf-s2/m	Mass Y tonf-s2/m	Mass Z tonf-s2/m
Wallstack103	0	0	0	0	0
Wallstack104	0	24.00367	2.44769	2.44769	0
Wallstack105	0	20.40312	2.08054	2.08054	0
Wallstack106	0	155.31021	15.83723	15.83723	0
Wallstack107	0	0	0	0	0
Wallstack108	0	0	0	0	0
Wallstack109	0	0	0	0	0
Wallstack110	0	0	0	0	0
Wallstack111	0	7.2011	0.73431	0.73431	0
Wallstack112	0	0	0	0	0
Wallstack113	0	0	0	0	0
Wallstack114	0	28.8044	2.93723	2.93723	0
Wallstack115	0	264.29984	26.95108	26.95108	0
Wallstack116	0	11.09359	1.13123	1.13123	0
Wallstack117	0	11.09359	1.13123	1.13123	0
Wallstack118	0	4.43743	0.45249	0.45249	0
Wallstack119	0	4.43743	0.45249	0.45249	0
Wallstack120	0	11.09359	1.13123	1.13123	0
Wallstack121	0	44.37435	4.52492	4.52492	0
Wallstack122	0	11.09359	1.13123	1.13123	0
Wallstack123	0	0	0	0	0
Wallstack124	0	0	0	0	0
Wallstack125	0	14.79145	1.50831	1.50831	0
Wallstack126	0	0	0	0	0
Wallstack127	0	31.43183	3.20515	3.20515	0
Wallstack128	0	36.97862	3.77077	3.77077	0
Wallstack129	0	7.55142	0.77003	0.77003	0
Wallstack130	0	7.55142	0.77003	0.77003	0
Wallstack131	0	7.55142	0.77003	0.77003	0
Wallstack132	0	53.48925	5.45439	5.45439	0
Wallstack133	0	62.92853	6.41692	6.41692	0
Wallstack134	0	18.87856	1.92508	1.92508	0
Wallstack135	0	18.87856	1.92508	1.92508	0
Wallstack136	0	18.87856	1.92508	1.92508	0
Wallstack137	0	7.55142	0.77003	0.77003	0
Wallstack138	0	7.55142	0.77003	0.77003	0
Wallstack139	0	7.55142	0.77003	0.77003	0
Wallstack140	0	18.87856	1.92508	1.92508	0
Wallstack141	0	75.51424	7.70031	7.70031	0
Wallstack142	0	0	0	0	0
Wallstack143	0	0	0	0	0

1.7 Groups

Table 1.14 - Group Definitions

Name	Color	Steel Design?	Concrete Design?	Composite Design?
All	Yellow	No	No	No
Wallstack1	Gray8Dark	No	No	No
Wallstack2	Blue	No	No	No
Wallstack3	Green	No	No	No
Wallstack4	Cyan	No	No	No
Wallstack5	Red	No	No	No
Wallstack6	Magenta	No	No	No

Name	Color	Steel Design?	Concrete Design?	Composite Design?
Wallstack7	Yellow	No	No	No
Wallstack8	Gray8Dark	No	No	No
Wallstack9	Blue	No	No	No
Wallstack10	Green	No	No	No
Wallstack11	Cyan	No	No	No
Wallstack12	Red	No	No	No
Wallstack13	Magenta	No	No	No
Wallstack14	Yellow	No	No	No
Wallstack15	Gray8Dark	No	No	No
Wallstack16	Blue	No	No	No
Wallstack17	Green	No	No	No
Wallstack18	Cyan	No	No	No
Wallstack19	Red	No	No	No
Wallstack20	Red	No	No	No
Wallstack21	Magenta	No	No	No
Wallstack22	Yellow	No	No	No
Wallstack23	Gray8Dark	No	No	No
Wallstack24	Blue	No	No	No
Wallstack25	Green	No	No	No
Wallstack26	Cyan	No	No	No
Wallstack27	Red	No	No	No
Wallstack28	Magenta	No	No	No
Wallstack29	Yellow	No	No	No
Wallstack30	Gray8Dark	No	No	No
Wallstack31	Blue	No	No	No
Wallstack32	Green	No	No	No
Wallstack33	Cyan	No	No	No
Wallstack34	Red	No	No	No
Wallstack35	Magenta	No	No	No
Wallstack36	Yellow	No	No	No
Wallstack37	Gray8Dark	No	No	No
Wallstack38	Blue	No	No	No
Wallstack39	Green	No	No	No
Wallstack40	Green	No	No	No
Wallstack41	Cyan	No	No	No
Wallstack42	Red	No	No	No
Wallstack43	Magenta	No	No	No
Wallstack44	Yellow	No	No	No
Wallstack45	Gray8Dark	No	No	No
Wallstack46	Blue	No	No	No
Wallstack47	Green	No	No	No
Wallstack48	Cyan	No	No	No
Wallstack49	Red	No	No	No
Wallstack50	Magenta	No	No	No
Wallstack51	Yellow	No	No	No
Wallstack52	Gray8Dark	No	No	No
Wallstack53	Blue	No	No	No
Wallstack54	Green	No	No	No
Wallstack55	Cyan	No	No	No
Wallstack56	Red	No	No	No
Wallstack57	Magenta	No	No	No
Wallstack58	Yellow	No	No	No
Wallstack59	Gray8Dark	No	No	No
Wallstack60	Gray8Dark	No	No	No
Wallstack61	Blue	No	No	No

Name	Color	Steel Design?	Concrete Design?	Composite Design?
Wallstack62	Green	No	No	No
Wallstack63	Cyan	No	No	No
Wallstack64	Red	No	No	No
Wallstack65	Magenta	No	No	No
Wallstack66	Yellow	No	No	No
Wallstack67	Gray8Dark	No	No	No
Wallstack68	Blue	No	No	No
Wallstack69	Green	No	No	No
Wallstack70	Cyan	No	No	No
Wallstack71	Red	No	No	No
Wallstack72	Magenta	No	No	No
Wallstack73	Yellow	No	No	No
Wallstack74	Gray8Dark	No	No	No
Wallstack75	Blue	No	No	No
Wallstack76	Green	No	No	No
Wallstack77	Cyan	No	No	No
Wallstack78	Red	No	No	No
Wallstack79	Magenta	No	No	No
Wallstack80	Magenta	No	No	No
Wallstack81	Yellow	No	No	No
Wallstack82	Gray8Dark	No	No	No
Wallstack83	Blue	No	No	No
Wallstack84	Green	No	No	No
Wallstack85	Cyan	No	No	No
Wallstack86	Red	No	No	No
Wallstack87	Magenta	No	No	No
Wallstack88	Yellow	No	No	No
Wallstack89	Gray8Dark	No	No	No
Wallstack90	Blue	No	No	No
Wallstack91	Green	No	No	No
Wallstack92	Cyan	No	No	No
Wallstack93	Red	No	No	No
Wallstack94	Magenta	No	No	No
Wallstack95	Yellow	No	No	No
Wallstack96	Gray8Dark	No	No	No
Wallstack97	Blue	No	No	No
Wallstack98	Green	No	No	No
Wallstack99	Cyan	No	No	No
Wallstack100	Cyan	No	No	No
Wallstack101	Red	No	No	No
Wallstack102	Magenta	No	No	No
Wallstack103	Yellow	No	No	No
Wallstack104	Gray8Dark	No	No	No
Wallstack105	Blue	No	No	No
Wallstack106	Green	No	No	No
Wallstack107	Cyan	No	No	No
Wallstack108	Red	No	No	No
Wallstack109	Magenta	No	No	No
Wallstack110	Yellow	No	No	No
Wallstack111	Gray8Dark	No	No	No
Wallstack112	Blue	No	No	No
Wallstack113	Green	No	No	No
Wallstack114	Cyan	No	No	No
Wallstack115	Red	No	No	No
Wallstack116	Magenta	No	No	No

Name	Color	Steel Design?	Concrete Design?	Composite Design?
Wallstack117	Yellow	No	No	No
Wallstack118	Gray8Dark	No	No	No
Wallstack119	Blue	No	No	No
Wallstack120	Blue	No	No	No
Wallstack121	Green	No	No	No
Wallstack122	Cyan	No	No	No
Wallstack123	Red	No	No	No
Wallstack124	Magenta	No	No	No
Wallstack125	Yellow	No	No	No
Wallstack126	Gray8Dark	No	No	No
Wallstack127	Blue	No	No	No
Wallstack128	Green	No	No	No
Wallstack129	Cyan	No	No	No
Wallstack130	Red	No	No	No
Wallstack131	Magenta	No	No	No
Wallstack132	Yellow	No	No	No
Wallstack133	Gray8Dark	No	No	No
Wallstack134	Blue	No	No	No
Wallstack135	Green	No	No	No
Wallstack136	Cyan	No	No	No
Wallstack137	Red	No	No	No
Wallstack138	Magenta	No	No	No
Wallstack139	Yellow	No	No	No
Wallstack140	Yellow	No	No	No
Wallstack141	Gray8Dark	No	No	No
Wallstack142	Blue	No	No	No
Wallstack143	Green	No	No	No

Table 1.15 - Group Assignments

Group Name	Object Type	Object Unique Name
Wallstack4	Area	4
Wallstack7	Area	5
Wallstack9	Area	6
Wallstack9	Area	7
Wallstack10	Area	6
Wallstack10	Area	7
Wallstack18	Area	10
Wallstack35	Area	13
Wallstack49	Area	14
Wallstack63	Area	15
Wallstack64	Area	16
Wallstack65	Area	17
Wallstack66	Area	18
Wallstack81	Area	19
Wallstack81	Area	20
Wallstack81	Area	21
Wallstack81	Area	22
Wallstack81	Area	23
Wallstack81	Area	24
Wallstack81	Area	25
Wallstack81	Area	26
Wallstack81	Area	27
Wallstack81	Area	28

Group Name	Object Type	Object Unique Name
Wallstack81	Area	29
Wallstack81	Area	30
Wallstack84	Area	31
Wallstack84	Area	32
Wallstack86	Area	34
Wallstack86	Area	35
Wallstack86	Area	36
Wallstack86	Area	37
Wallstack86	Area	6
Wallstack86	Area	38
Wallstack86	Area	39
Wallstack86	Area	7
Wallstack86	Area	40
Wallstack89	Area	41
Wallstack89	Area	13
Wallstack89	Area	42
Wallstack89	Area	43
Wallstack89	Area	44
Wallstack94	Area	48
Wallstack95	Area	31
Wallstack96	Area	31
Wallstack96	Area	49
Wallstack96	Area	32
Wallstack98	Area	52
Wallstack98	Area	53
Wallstack100	Area	5
Wallstack100	Area	55
Wallstack101	Area	4
Wallstack101	Area	56
Wallstack102	Area	57
Wallstack102	Area	58
Wallstack104	Area	61
Wallstack104	Area	62
Wallstack105	Area	63
Wallstack105	Area	64
Wallstack106	Area	65
Wallstack106	Area	66
Wallstack106	Area	67
Wallstack106	Area	68
Wallstack106	Area	69
Wallstack106	Area	70
Wallstack106	Area	71
Wallstack106	Area	72
Wallstack106	Area	73
Wallstack111	Area	80
Wallstack111	Area	81
Wallstack114	Area	82
Wallstack114	Area	83
Wallstack115	Area	84
Wallstack115	Area	85
Wallstack115	Area	86
Wallstack115	Area	87
Wallstack115	Area	88
Wallstack115	Area	89
Wallstack115	Area	90

Group Name	Object Type	Object Unique Name
Wallstack115	Area	14
Wallstack115	Area	91
Wallstack115	Area	92
Wallstack115	Area	93
Wallstack115	Area	94
Wallstack115	Area	95
Wallstack115	Area	96
Wallstack115	Area	97
Wallstack116	Area	80
Wallstack116	Area	81
Wallstack116	Area	98
Wallstack117	Area	99
Wallstack117	Area	100
Wallstack117	Area	101
Wallstack118	Area	102
Wallstack118	Area	103
Wallstack118	Area	104
Wallstack119	Area	105
Wallstack119	Area	106
Wallstack119	Area	107
Wallstack120	Area	108
Wallstack120	Area	109
Wallstack120	Area	110
Wallstack121	Area	82
Wallstack121	Area	83
Wallstack121	Area	111
Wallstack122	Area	31
Wallstack122	Area	49
Wallstack122	Area	112
Wallstack125	Area	4
Wallstack125	Area	56
Wallstack125	Area	115
Wallstack127	Area	63
Wallstack127	Area	64
Wallstack127	Area	117
Wallstack128	Area	61
Wallstack128	Area	62
Wallstack128	Area	118
Wallstack129	Area	119
Wallstack129	Area	120
Wallstack129	Area	121
Wallstack129	Area	122
Wallstack129	Area	123
Wallstack130	Area	124
Wallstack130	Area	125
Wallstack130	Area	126
Wallstack130	Area	127
Wallstack130	Area	128
Wallstack131	Area	129
Wallstack131	Area	130
Wallstack131	Area	131
Wallstack131	Area	132
Wallstack131	Area	133
Wallstack132	Area	63
Wallstack132	Area	64

Group Name	Object Type	Object Unique Name
Wallstack132	Area	117
Wallstack132	Area	134
Wallstack132	Area	135
Wallstack133	Area	61
Wallstack133	Area	62
Wallstack133	Area	118
Wallstack133	Area	136
Wallstack133	Area	137
Wallstack134	Area	31
Wallstack134	Area	49
Wallstack134	Area	112
Wallstack134	Area	138
Wallstack134	Area	32
Wallstack135	Area	80
Wallstack135	Area	81
Wallstack135	Area	98
Wallstack135	Area	139
Wallstack135	Area	140
Wallstack136	Area	99
Wallstack136	Area	100
Wallstack136	Area	101
Wallstack136	Area	141
Wallstack136	Area	142
Wallstack137	Area	102
Wallstack137	Area	103
Wallstack137	Area	104
Wallstack137	Area	143
Wallstack137	Area	144
Wallstack138	Area	145
Wallstack138	Area	146
Wallstack138	Area	147
Wallstack138	Area	148
Wallstack138	Area	149
Wallstack139	Area	105
Wallstack139	Area	106
Wallstack139	Area	107
Wallstack139	Area	150
Wallstack139	Area	151
Wallstack140	Area	108
Wallstack140	Area	109
Wallstack140	Area	110
Wallstack140	Area	152
Wallstack140	Area	153
Wallstack141	Area	82
Wallstack141	Area	83
Wallstack141	Area	111
Wallstack141	Area	154
Wallstack141	Area	155

2 Properties

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

2.1 Materials

Table 2.1 - Material Properties - General

Material	Type	SymType	Grade	Color	Notes
28Mpa	Concrete	Isotropic	f'c 4000 psi	Red	
A416Gr270	Tendon	Uniaxial	Grade 270	Blue	
A615Gr60	Rebar	Uniaxial	Grade 60	Yellow	
A992Fy50	Steel	Isotropic	Grade 50	Green	

2.2 Frame Sections

Table 2.2 - Frame Section Property Definitions - Steel I/Wide Flange (Part 1 of 2)

Name	Material	From File?	Total Depth m	Top Flange Width m	Top Flange Thickness m	Web Thickness m	Bottom Flange Width m	Bottom Flange Thickness m	Fillet Radius m	Area Modifier
Ipe 550	A992Fy50	No	0.55	0.21	0.0172	0.0111	0.21	0.0172	0	1

Table 2.2 - Frame Section Property Definitions - Steel I/Wide Flange (Part 2 of 2)

As2 Modifier	As3 Modifier	J Modifier	I22 Modifier	I33 Modifier	Mass Modifier	Weight Modifier	Color	Notes
1	1	1	1	1	1	1	Red	

Table 2.3 - Frame Section Property Definitions - Concrete Circle (Part 1 of 2)

Name	Material	From File?	Diameter m	Rigid Zone?	Notional Size Type	Notional Auto Factor	Design Type	Area Modifier	As2 Modifier	As3 Modifier
columna 300	28Mpa	No	0.3	No	Auto	1	Column	1	1	1
columna 600	28Mpa	No	0.6	No	Auto	1	Column	1	1	1

Table 2.3 - Frame Section Property Definitions - Concrete Circle (Part 2 of 2)

J Modifier	I22 Modifier	I33 Modifier	Mass Modifier	Weight Modifier	Color	Notes
1	1	1	1	1	Gray8Dark	
1	1	1	1	1	Yellow	

Table 2.4 - Frame Section Property Definitions - Concrete Rectangular (Part 1 of 2)

Name	Material	From File?	Depth m	Width m	Rigid Zone?	Notional Size Type	Notional Auto Factor	Design Type	Area Modifier	As2 Modifier
0.20 x 0.55	28Mpa	No	0.55	0.2	No	Auto	1	Beam	1	1
0.3 X 0.40	28Mpa	No	0.4	0.3	No	Auto	1	Beam	1	1
0.3 x 0.9	28Mpa	No	0.9	0.3	No	Auto	1	Beam	1	1
0.40 X 0.55	28Mpa	No	0.55	0.4	No	Auto	1	Beam	1	1
0.45 x 0.55	28Mpa	No	0.55	0.45	No	Auto	1	Beam	1	1
0.5 X 0.6	28Mpa	No	0.6	0.5	No	Auto	1	Beam	1	1
0.50 x 0.55	28Mpa	No	0.55	0.5	No	Auto	1	Beam	1	1
0.6 x 0.55	28Mpa	No	0.55	0.6	No	Auto	1	Beam	1	1
0.70 x 0.55	28Mpa	No	0.55	0.7	No	Auto	1	Beam	1	1
Col 0.3 x 0.3	28Mpa	No	0.3	0.3	No	Auto	1	Column	1	1
COL 1.20 X 0.30	28Mpa	No	0.3	1.2	No	Auto	1	Column	1	1

Name	Material	From File?	Depth m	Width m	Rigid Zone?	Notional Size Type	Notional Auto Factor	Design Type	Area Modifier	As2 Modifier
COL 1.20 X 0.6	28Mpa	No	0.6	1.2	No	Auto	1	Column	1	1
COL 1.50 X 0.3	28Mpa	No	1.5	0.3	No	Auto	1	Column	1	1
COLUMNA 2.40 X 0.3	28Mpa	No	2.4	0.3	No	Auto	1	Column	1	1

Table 2.4 - Frame Section Property Definitions - Concrete Rectangular (Part 2 of 2)

As3 Modifier	J Modifier	I22 Modifier	I33 Modifier	Mass Modifier	Weight Modifier	Color	Notes
1	1	1	1	1	1	Green	
1	1	1	1	1	1	Yellow	
1	1	1	1	1	1	Cyan	
1	1	1	1	1	1	Red	
1	1	1	1	1	1	Red	
1	1	1	1	1	1	Magenta	
1	1	1	1	1	1	Magenta	
1	1	1	1	1	1	Green	
1	1	1	1	1	1	Cyan	
1	1	1	1	1	1	Blue	
1	1	1	1	1	1	Gray8Dark	
1	1	1	1	1	1	Green	
1	1	1	1	1	1	Cyan	
1	1	1	1	1	1	Blue	

Table 2.5 - Frame Section Property Definitions - Concrete Beam Reinforcing

Name	Longitudinal Bar Material	Tie Bar Material	Top Cover m	Bottom Cover m	Top I-End Area m	Top J-End Area m	Bottom I-End Area m	Bottom J-End Area m
0.20 x 0.55	A615Gr60	A615Gr60	0.06	0.06	0	0	0	0
0.3 X 0.40	A615Gr60	A615Gr60	0.06	0.06	0	0	0	0
0.3 x 0.9	A615Gr60	A615Gr60	0.06	0.06	0	0	0	0
0.40 X 0.55	A615Gr60	A615Gr60	0.06	0.06	0	0	0	0
0.45 x 0.55	A615Gr60	A615Gr60	0.06	0.06	0	0	0	0
0.5 X 0.6	A615Gr60	A615Gr60	0.06	0.06	0	0	0	0
0.50 x 0.55	A615Gr60	A615Gr60	0.06	0.06	0	0	0	0
0.6 x 0.55	A615Gr60	A615Gr60	0.06	0.06	0	0	0	0
0.70 x 0.55	A615Gr60	A615Gr60	0.06	0.06	0	0	0	0

Table 2.6 - Frame Section Property Definitions - Concrete Column Reinforcing (Part 1 of 2)

Name	Longitudinal Bar Material	Tie Bar Material	Reinforcement Configuration	Is Spiral Ties?	Is Designed?	Clear Cover to Ties m	Number Bars 3-Dir	Number Bars 2-Dir
Col 0.3 x 0.3	A615Gr60	A615Gr60	Rectangular		No	0.04	3	3
COL 1.20 X 0.30	A615Gr60	A615Gr60	Rectangular		No	0.04	10	3
COL 1.20 X 0.6	A615Gr60	A615Gr60	Rectangular		No	0.03	10	3
COL 1.50 X 0.3	A615Gr60	A615Gr60	Rectangular		No	0.03	2	9
COLUMNA 2.40 X 0.3	A615Gr60	A615Gr60	Rectangular		No	0.03	2	15
columna 300	A615Gr60	A615Gr60	Circular	No	No	0.04		
columna 600	A615Gr60	A615Gr60	Circular	No	Yes	0.04		

Table 2.6 - Frame Section Property Definitions - Concrete Column Reinforcing (Part 2 of 2)

Number Longitudinal Bars	Longitudinal Bar Size	Corner Bar Size	Tie Bar Size	Tie Bar Spacing m2	Number Ties 3-Dir	Number Ties 2-Dir
	#6	#6	#4	0.0002	3	3
	#4	#4	#3	0.0002	7	4
	#5	#5	#3	0.0001	7	2
	#9	#9	#3	0.0002	2	5
	#5	#5	#3	0.0002	2	8
8	#5		#3	0.0001		
8	#7		#3	0.0001		

2.3 Shell Sections

Table 2.7 - Slab Property Definitions (Part 1 of 2)

Name	Modeling Type	Property Type	Material	Slab Thickness m	One Way Load Distribution?	Notional Size Type	Notional Auto Factor	f11 Modifier
LOZA MACIZA 190 MM	Membrane	Slab	28Mpa	0.19	No	Auto	1	1
MACIZA ESCALERAS	Membrane	Slab	28Mpa	0.18	Yes	Auto	1	1
MACIZA RAMPAS	Membrane	Slab	28Mpa	0.5	Yes	Auto	1	1

Table 2.7 - Slab Property Definitions (Part 2 of 2)

f22 Modifier	f12 Modifier	m11 Modifier	m22 Modifier	m12 Modifier	v13 Modifier	v23 Modifier	Mass Modifier	Weight Modifier	Color	Notes
1	1	1	1	1	1	1	1	1	Blue	
1	1	1	1	1	1	1	1	1	Green	
1	1	1	1	1	1	1	1	1	Cyan	

Table 2.8 - Deck Property Definitions (Part 1 of 3)

Name	Deck Type	Slab Material	Deck Material	Slab Depth m	Rib Depth m	Rib Width Top m	Rib Width Bottom m	Rib Spacing m	Deck Shear Thickness m	Deck Unit Weight tonf/m2	Shear Stud Diameter m
Deck1	Filled	28Mpa	A992Fy50	0.0875	0.075	0.175	0.125	0.3	0.001	0.0112	0.019

Table 2.8 - Deck Property Definitions (Part 2 of 3)

Shear Stud Height m	Shear Stud Tensile Strength tonf/m2	f11 Modifier	f22 Modifier	f12 Modifier	m11 Modifier	m22 Modifier	m12 Modifier	v13 Modifier	v23 Modifier	Mass Modifier
0.15	40788.65	1	1	1	1	1	1	1	1	1

Table 2.8 - Deck Property Definitions (Part 3 of 3)

Weight Modifier	Color	Notes
1	Red	

Table 2.9 - Wall Property Definitions - Specified (Part 1 of 2)

Name	Modeling Type	Material	Wall Thickness m	Include Auto Rigid Zone?	Notional Size Type	Notional Auto Factor	f11 Modifier	f22 Modifier	f12 Modifier	m11 Modifier
0.30	Shell-Thick	28Mpa	0.3	No	Auto	1	1	1	1	1

Table 2.9 - Wall Property Definitions - Specified (Part 2 of 2)

m22 Modifier	m12 Modifier	v13 Modifier	v23 Modifier	Mass Modifier	Weight Modifier	Color	Notes
1	1	1	1	1	1	Magenta	

2.4 Reinforcement Sizes

Table 2.10 - Reinforcing Bar Sizes

Name	Diameter m	Area m2
#2	0.00635	3.226E-05
#3	0.00953	0.0001
#4	0.0127	0.0001
#5	0.01588	0.0002
#6	0.01905	0.0003
#7	0.02223	0.0004
#8	0.0254	0.0005
#9	0.02865	0.0006
#10	0.03226	0.0008
#11	0.03581	0.001
#14	0.043	0.0015
#18	0.05733	0.0026

2.5 Links

Table 2.11 - Link Property Definitions - Summary

Name	Type	Degrees of Freedom	Mass tonf-s2/m	Weight tonf	Defined Length m	Defined Area m2
Link1	Linear	U1	0	0	1	1

2.6 Tendon Sections

Table 2.12 - Tendon Section Properties

Name	Material	StrandArea m2	Color	Notes
Tendon1	A416Gr270	0.0001	Yellow	

3 Assignments

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

3.1 Joint Assignments

Table 3.1 - Joint Assignments - Summary

Story	Label	UniqueName	Diaphragm	Restraints
Story5	30	475	From Area	
Story5	31	474	From Area	
Story5	32	473	From Area	
Story5	33	472	From Area	
Story5	50	644	From Area	
Story5	65	604	From Area	
Story5	66	606	From Area	
Story5	67	610	From Area	
Story5	68	623	From Area	
Story5	69	614	From Area	
Story5	70	616	From Area	
Story5	71	622	From Area	
Story5	72	611	From Area	
Story5	73	607	From Area	
Story5	74	617	From Area	
Story5	76	621	From Area	
Story5	24	603	From Area	
Story5	25	641	From Area	
Story5	80	573	From Area	
Story5	92	585	From Area	
Story5	93	586	From Area	
Story5	98	615	From Area	
Story5	100	577	From Area	
Story5	101	578	From Area	
Story5	102	605	From Area	
Story5	103	569	From Area	
Story5	104	568	From Area	
Story5	105	567	From Area	
Story5	79	571	From Area	
Story5	117	582	From Area	
Story5	136	565	From Area	
Story5	137	626	From Area	
Story5	89	107	From Area	
Story5	143	106	From Area	
Story5	145	218	From Area	
Story5	146	220	From Area	
Story5	163	221	From Area	
Story5	180	579	From Area	
Story5	134	487	From Area	
Story5	170	486	From Area	
Story5	173	485	From Area	
Story5	174	484	From Area	
Story5	131	85	From Area	
Story5	132	84	From Area	
Story5	23	572	From Area	
Story5	36	564	From Area	
Story5	39	563	From Area	
Story5	41	612	From Area	
Story5	29	315	From Area	
Story5	37	314	From Area	

Story	Label	UniqueName	Diaphragm	Restraints
Story5	86	311	From Area	
Story5	90	310	From Area	
Story5	99	609	From Area	
Story5	110	566	From Area	
Story5	114	319	From Area	
Story5	118	318	From Area	
Story5	120	351	From Area	
Story5	121	350	From Area	
Story5	123	219	From Area	
Story5	75	323	From Area	
Story5	77	322	From Area	
Story5	78	327	From Area	
Story5	83	326	From Area	
Story5	85	343	From Area	
Story5	87	342	From Area	
Story5	88	347	From Area	
Story5	124	346	From Area	
Story5	3	283	From Area	
Story5	5	282	From Area	
Story5	20	295	From Area	
Story5	26	294	From Area	
Story5	27	307	From Area	
Story5	28	306	From Area	
Story5	81	339	From Area	
Story5	82	338	From Area	
Story5	53	576	From Area	
Story5	91	575	From Area	
Story5	111	580	From Area	
Story5	119	581	From Area	
Story5	122	613	From Area	
Story5	125	561	From Area	
Story5	126	562	From Area	
Story5	127	570	From Area	
Story5	130	574	From Area	
Story5	7	583	From Area	
Story5	8	584	From Area	
Story5	108	642	From Area	
Story5	38	608	From Area	
Story5	109	618	From Area	
Story5	133	619	From Area	
Story5	135	620	From Area	
Story5	138	2	D5	
Story5	139	3	D5	
Story4	30	471	From Area	
Story4	31	470	From Area	
Story4	32	469	From Area	
Story4	33	468	From Area	
Story4	50	6	From Area	
Story4	65	598	From Area	
Story4	67	601	From Area	
Story4	68	602	From Area	
Story4	69	596	From Area	
Story4	24	628	From Area	
Story4	25	627	From Area	
Story4	80	549	From Area	
Story4	92	75	From Area	

Story	Label	UniqueName	Diaphragm	Restraints
Story4	93	77	From Area	
Story4	98	76	From Area	
Story4	100	495	From Area	
Story4	101	497	From Area	
Story4	102	599	From Area	
Story4	103	551	From Area	
Story4	104	540	From Area	
Story4	105	541	From Area	
Story4	79	552	From Area	
Story4	117	558	From Area	
Story4	136	544	From Area	
Story4	137	625	From Area	
Story4	89	105	From Area	
Story4	143	104	From Area	
Story4	145	214	From Area	
Story4	146	216	From Area	
Story4	163	217	From Area	
Story4	180	496	From Area	
Story4	134	477	From Area	
Story4	170	479	From Area	
Story4	173	481	From Area	
Story4	174	483	From Area	
Story4	131	82	From Area	
Story4	132	83	From Area	
Story4	23	553	From Area	
Story4	36	547	From Area	
Story4	39	546	From Area	
Story4	29	313	From Area	
Story4	37	312	From Area	
Story4	86	309	From Area	
Story4	90	308	From Area	
Story4	99	624	From Area	
Story4	110	545	From Area	
Story4	114	317	From Area	
Story4	118	316	From Area	
Story4	120	349	From Area	
Story4	121	348	From Area	
Story4	123	215	From Area	
Story4	75	321	From Area	
Story4	77	320	From Area	
Story4	78	325	From Area	
Story4	83	324	From Area	
Story4	85	341	From Area	
Story4	87	340	From Area	
Story4	88	345	From Area	
Story4	124	344	From Area	
Story4	3	281	From Area	
Story4	5	280	From Area	
Story4	20	293	From Area	
Story4	26	292	From Area	
Story4	27	305	From Area	
Story4	28	304	From Area	
Story4	81	337	From Area	
Story4	82	336	From Area	
Story4	53	554	From Area	
Story4	91	556	From Area	

Story	Label	UniqueName	Diaphragm	Restraints
Story4	111	557	From Area	
Story4	119	560	From Area	
Story4	122	595	From Area	
Story4	125	542	From Area	
Story4	126	543	From Area	
Story4	127	548	From Area	
Story4	130	550	From Area	
Story4	7	559	From Area	
Story4	8	555	From Area	
Story4	9	631	From Area	
Story4	34	632	From Area	
Story4	35	639	From Area	
Story4	115	600	From Area	
Story4	116	597	From Area	
Story4	140	5	D4	
Story4	141	116	D4	
Story3	30	467	From Area	
Story3	31	466	From Area	
Story3	32	465	From Area	
Story3	33	464	From Area	
Story3	50	4	From Area	
Story3	65	587	From Area	
Story3	67	593	From Area	
Story3	68	592	From Area	
Story3	69	590	From Area	
Story3	10	263	From Area	
Story3	11	261	From Area	
Story3	12	265	From Area	
Story3	13	264	From Area	
Story3	14	652	From Area	
Story3	15	267	From Area	
Story3	24	24	From Area	
Story3	25	23	From Area	
Story3	80	538	From Area	
Story3	92	72	From Area	
Story3	93	74	From Area	
Story3	98	73	From Area	
Story3	100	490	From Area	
Story3	101	494	From Area	
Story3	102	588	From Area	
Story3	103	536	From Area	
Story3	104	98	From Area	
Story3	105	99	From Area	
Story3	79	533	From Area	
Story3	117	529	From Area	
Story3	136	171	From Area	
Story3	137	172	From Area	
Story3	89	103	From Area	
Story3	143	102	From Area	
Story3	145	44	From Area	
Story3	146	43	From Area	
Story3	163	213	From Area	
Story3	180	492	From Area	
Story3	182	408	From Area	
Story3	183	409	From Area	
Story3	184	410	From Area	

Story	Label	UniqueName	Diaphragm	Restraints
Story3	185	411	From Area	
Story3	186	48	From Area	
Story3	187	47	From Area	
Story3	188	52	From Area	
Story3	189	51	From Area	
Story3	190	56	From Area	
Story3	191	55	From Area	
Story3	192	60	From Area	
Story3	193	59	From Area	
Story3	134	476	From Area	
Story3	170	478	From Area	
Story3	173	480	From Area	
Story3	174	482	From Area	
Story3	131	259	From Area	
Story3	132	258	From Area	
Story3	23	537	From Area	
Story3	36	633	From Area	
Story3	39	534	From Area	
Story3	1	179	From Area	
Story3	2	129	From Area	
Story3	29	271	From Area	
Story3	37	270	From Area	
Story3	86	269	From Area	
Story3	90	268	From Area	
Story3	99	170	From Area	
Story3	110	173	From Area	
Story3	114	223	From Area	
Story3	118	222	From Area	
Story3	120	257	From Area	
Story3	121	256	From Area	
Story3	123	212	From Area	
Story3	75	231	From Area	
Story3	77	230	From Area	
Story3	78	239	From Area	
Story3	83	238	From Area	
Story3	85	247	From Area	
Story3	87	246	From Area	
Story3	88	255	From Area	
Story3	124	254	From Area	
Story3	3	279	From Area	
Story3	5	278	From Area	
Story3	20	291	From Area	
Story3	26	290	From Area	
Story3	27	303	From Area	
Story3	28	302	From Area	
Story3	81	335	From Area	
Story3	82	334	From Area	
Story3	53	524	From Area	
Story3	91	526	From Area	
Story3	111	527	From Area	
Story3	119	528	From Area	
Story3	122	591	From Area	
Story3	125	532	From Area	
Story3	126	531	From Area	
Story3	127	535	From Area	
Story3	130	539	From Area	

Story	Label	UniqueName	Diaphragm	Restraints
Story3	7	530	From Area	
Story3	8	525	From Area	
Story3	9	634	From Area	
Story3	34	635	From Area	
Story3	35	640	From Area	
Story3	115	589	From Area	
Story3	116	594	From Area	
Story3	142	136	D3	
Story3	144	137	D3	
Story2	30	463	From Area	
Story2	31	462	From Area	
Story2	32	461	From Area	
Story2	33	460	From Area	
Story2	50	1	From Area	
Story2	10	262	From Area	
Story2	11	260	From Area	
Story2	12	141	From Area	
Story2	13	140	From Area	
Story2	14	651	From Area	
Story2	15	266	From Area	
Story2	16	143	From Area	
Story2	17	142	From Area	
Story2	18	139	From Area	
Story2	19	138	From Area	
Story2	24	22	From Area	
Story2	25	21	From Area	
Story2	80	407	From Area	
Story2	92	69	From Area	
Story2	93	71	From Area	
Story2	98	70	From Area	
Story2	100	489	From Area	
Story2	101	493	From Area	
Story2	103	511	From Area	
Story2	104	96	From Area	
Story2	105	97	From Area	
Story2	106	403	From Area	
Story2	107	405	From Area	
Story2	79	513	From Area	
Story2	117	521	From Area	
Story2	128	189	From Area	
Story2	129	188	From Area	
Story2	136	167	From Area	
Story2	137	168	From Area	
Story2	89	40	From Area	
Story2	143	39	From Area	
Story2	145	41	From Area	
Story2	146	42	From Area	
Story2	151	135	From Area	
Story2	152	134	From Area	
Story2	163	211	From Area	
Story2	180	491	From Area	
Story2	182	412	From Area	UX; UY; UZ; RX; RY; RZ
Story2	183	413	From Area	UX; UY; UZ; RX; RY; RZ
Story2	184	414	From Area	UX; UY; UZ; RX; RY; RZ
Story2	185	415	From Area	UX; UY; UZ; RX; RY; RZ
Story2	186	45	From Area	UX; UY; UZ; RX; RY; RZ

Story	Label	UniqueName	Diaphragm	Restraints
Story2	187	46	From Area	UX; UY; UZ; RX; RY; RZ
Story2	188	49	From Area	UX; UY; UZ; RX; RY; RZ
Story2	189	50	From Area	UX; UY; UZ; RX; RY; RZ
Story2	190	53	From Area	UX; UY; UZ; RX; RY; RZ
Story2	191	54	From Area	UX; UY; UZ; RX; RY; RZ
Story2	192	57	From Area	UX; UY; UZ; RX; RY; RZ
Story2	193	58	From Area	UX; UY; UZ; RX; RY; RZ
Story2	131	123	From Area	
Story2	132	122	From Area	
Story2	215	183	From Area	
Story2	216	182	From Area	
Story2	217	181	From Area	
Story2	218	180	From Area	
Story2	23	509	From Area	
Story2	36	516	From Area	
Story2	39	514	From Area	
Story2	1	178	From Area	
Story2	2	128	From Area	
Story2	29	151	From Area	
Story2	37	150	From Area	
Story2	86	157	From Area	
Story2	90	156	From Area	
Story2	99	166	From Area	
Story2	110	169	From Area	
Story2	112	185	From Area	
Story2	113	184	From Area	
Story2	114	195	From Area	
Story2	118	194	From Area	
Story2	120	201	From Area	
Story2	121	200	From Area	
Story2	123	210	From Area	
Story2	75	229	From Area	
Story2	77	228	From Area	
Story2	78	237	From Area	
Story2	83	236	From Area	
Story2	85	245	From Area	
Story2	87	244	From Area	
Story2	88	253	From Area	
Story2	124	252	From Area	
Story2	3	277	From Area	
Story2	5	276	From Area	
Story2	20	289	From Area	
Story2	26	288	From Area	
Story2	27	301	From Area	
Story2	28	300	From Area	
Story2	81	333	From Area	
Story2	82	332	From Area	
Story2	53	518	From Area	
Story2	91	517	From Area	
Story2	111	519	From Area	
Story2	119	520	From Area	
Story2	125	510	From Area	
Story2	126	508	From Area	
Story2	127	512	From Area	
Story2	130	515	From Area	
Story2	7	522	From Area	

Story	Label	UniqueName	Diaphragm	Restraints
Story2	8	523	From Area	
Story2	9	636	From Area	
Story2	34	637	From Area	
Story2	35	638	From Area	
Story2	147	144	D2	
Story2	148	145	D2	
Story1	30	417	From Area	
Story1	31	418	From Area	
Story1	32	419	From Area	
Story1	33	420	From Area	
Story1	40	434	From Area	
Story1	42	421	From Area	
Story1	43	422	From Area	
Story1	44	423	From Area	
Story1	45	424	From Area	
Story1	46	425	From Area	
Story1	47	426	From Area	
Story1	48	427	From Area	
Story1	49	428	From Area	
Story1	50	63	From Area	
Story1	51	429	From Area	
Story1	52	430	From Area	
Story1	54	431	From Area	
Story1	55	432	From Area	
Story1	56	433	From Area	
Story1	57	435	From Area	
Story1	58	436	From Area	
Story1	59	437	From Area	
Story1	60	438	From Area	
Story1	61	439	From Area	
Story1	62	440	From Area	
Story1	63	441	From Area	
Story1	64	442	From Area	
Story1	65	443	From Area	
Story1	66	444	From Area	
Story1	67	445	From Area	
Story1	68	446	From Area	
Story1	69	447	From Area	
Story1	70	448	From Area	
Story1	71	449	From Area	
Story1	72	450	From Area	
Story1	73	451	From Area	
Story1	74	452	From Area	
Story1	76	453	From Area	
Story1	6	397	From Area	
Story1	10	10	From Area	
Story1	11	9	From Area	
Story1	12	14	From Area	
Story1	13	13	From Area	
Story1	14	34	From Area	
Story1	15	36	From Area	
Story1	16	28	From Area	
Story1	17	30	From Area	
Story1	18	18	From Area	
Story1	19	17	From Area	
Story1	24	19	From Area	

Story	Label	UniqueName	Diaphragm	Restraints
Story1	25	20	From Area	
Story1	80	399	From Area	
Story1	84	400	From Area	
Story1	92	64	From Area	
Story1	93	68	From Area	
Story1	94	401	From Area	
Story1	95	402	From Area	
Story1	98	66	From Area	
Story1	100	454	From Area	
Story1	101	27	From Area	
Story1	102	455	From Area	
Story1	103	456	From Area	
Story1	104	92	From Area	
Story1	105	95	From Area	
Story1	79	457	From Area	
Story1	96	458	From Area	
Story1	97	459	From Area	
Story1	117	32	From Area	
Story1	128	187	From Area	
Story1	129	186	From Area	
Story1	136	161	From Area	
Story1	137	163	From Area	
Story1	89	37	From Area	
Story1	143	38	From Area	
Story1	145	204	From Area	
Story1	146	207	From Area	
Story1	151	133	From Area	
Story1	152	132	From Area	
Story1	163	209	From Area	
Story1	180	502	From Area	
Story1	131	81	From Area	
Story1	132	80	From Area	
Story1	209	89	From Area	
Story1	210	88	From Area	
Story1	211	355	From Area	
Story1	212	354	From Area	
Story1	215	111	From Area	
Story1	216	110	From Area	
Story1	217	115	From Area	
Story1	218	114	From Area	
Story1	21	359	From Area	
Story1	22	358	From Area	
Story1	23	119	From Area	
Story1	36	118	From Area	
Story1	39	121	From Area	
Story1	41	488	From Area	
Story1	1	127	From Area	
Story1	2	126	From Area	
Story1	29	149	From Area	
Story1	37	148	From Area	
Story1	86	155	From Area	
Story1	90	154	From Area	
Story1	99	160	From Area	
Story1	110	165	From Area	
Story1	112	177	From Area	
Story1	113	176	From Area	

Story	Label	UniqueName	Diaphragm	Restraints
Story1	114	193	From Area	
Story1	118	192	From Area	
Story1	120	199	From Area	
Story1	121	198	From Area	
Story1	123	205	From Area	
Story1	75	227	From Area	
Story1	77	226	From Area	
Story1	78	235	From Area	
Story1	83	234	From Area	
Story1	85	243	From Area	
Story1	87	242	From Area	
Story1	88	251	From Area	
Story1	124	250	From Area	
Story1	3	275	From Area	
Story1	5	274	From Area	
Story1	20	287	From Area	
Story1	26	286	From Area	
Story1	27	299	From Area	
Story1	28	298	From Area	
Story1	81	331	From Area	
Story1	82	330	From Area	
Story1	53	498	From Area	
Story1	91	499	From Area	
Story1	111	500	From Area	
Story1	119	501	From Area	
Story1	122	503	From Area	
Story1	125	504	From Area	
Story1	126	505	From Area	
Story1	127	506	From Area	
Story1	130	507	From Area	
Story1	9	629	From Area	
Story1	34	630	From Area	
Story1	149	643	D1	
Story1	150	645	D1	
Base	30	360	From Area	UX; UY; UZ; RX; RY; RZ
Base	31	361	From Area	UX; UY; UZ; RX; RY; RZ
Base	32	362	From Area	UX; UY; UZ; RX; RY; RZ
Base	33	363	From Area	UX; UY; UZ; RX; RY; RZ
Base	40	377	From Area	UX; UY; UZ; RX; RY; RZ
Base	42	364	From Area	UX; UY; UZ; RX; RY; RZ
Base	43	365	From Area	UX; UY; UZ; RX; RY; RZ
Base	44	366	From Area	UX; UY; UZ; RX; RY; RZ
Base	45	367	From Area	UX; UY; UZ; RX; RY; RZ
Base	46	368	From Area	UX; UY; UZ; RX; RY; RZ
Base	47	369	From Area	UX; UY; UZ; RX; RY; RZ
Base	48	370	From Area	UX; UY; UZ; RX; RY; RZ
Base	49	371	From Area	UX; UY; UZ; RX; RY; RZ
Base	50	62	From Area	UX; UY; UZ; RX; RY; RZ
Base	51	372	From Area	UX; UY; UZ; RX; RY; RZ
Base	52	373	From Area	UX; UY; UZ; RX; RY; RZ
Base	54	374	From Area	UX; UY; UZ; RX; RY; RZ
Base	55	375	From Area	UX; UY; UZ; RX; RY; RZ
Base	56	376	From Area	UX; UY; UZ; RX; RY; RZ
Base	57	378	From Area	UX; UY; UZ; RX; RY; RZ
Base	58	379	From Area	UX; UY; UZ; RX; RY; RZ
Base	59	380	From Area	UX; UY; UZ; RX; RY; RZ

Story	Label	UniqueName	Diaphragm	Restraints
Base	60	381	From Area	UX; UY; UZ; RX; RY; RZ
Base	61	382	From Area	UX; UY; UZ; RX; RY; RZ
Base	62	383	From Area	UX; UY; UZ; RX; RY; RZ
Base	63	384	From Area	UX; UY; UZ; RX; RY; RZ
Base	64	385	From Area	UX; UY; UZ; RX; RY; RZ
Base	65	386	From Area	UX; UY; UZ; RX; RY; RZ
Base	66	387	From Area	UX; UY; UZ; RX; RY; RZ
Base	67	388	From Area	UX; UY; UZ; RX; RY; RZ
Base	68	389	From Area	UX; UY; UZ; RX; RY; RZ
Base	69	390	From Area	UX; UY; UZ; RX; RY; RZ
Base	70	391	From Area	UX; UY; UZ; RX; RY; RZ
Base	71	392	From Area	UX; UY; UZ; RX; RY; RZ
Base	72	393	From Area	UX; UY; UZ; RX; RY; RZ
Base	73	394	From Area	UX; UY; UZ; RX; RY; RZ
Base	74	395	From Area	UX; UY; UZ; RX; RY; RZ
Base	76	396	From Area	UX; UY; UZ; RX; RY; RZ
Base	6	398	From Area	UX; UY; UZ; RX; RY; RZ
Base	10	7	From Area	UX; UY; UZ; RX; RY; RZ
Base	11	8	From Area	UX; UY; UZ; RX; RY; RZ
Base	12	11	From Area	UX; UY; UZ; RX; RY; RZ
Base	13	12	From Area	UX; UY; UZ; RX; RY; RZ
Base	14	33	From Area	UX; UY; UZ; RX; RY; RZ
Base	15	35	From Area	UX; UY; UZ; RX; RY; RZ
Base	16	25	From Area	UX; UY; UZ; RX; RY; RZ
Base	17	29	From Area	UX; UY; UZ; RX; RY; RZ
Base	18	15	From Area	UX; UY; UZ; RX; RY; RZ
Base	19	16	From Area	UX; UY; UZ; RX; RY; RZ
Base	24	91	From Area	UX; UY; UZ; RX; RY; RZ
Base	25	93	From Area	UX; UY; UZ; RX; RY; RZ
Base	92	61	From Area	UX; UY; UZ; RX; RY; RZ
Base	93	67	From Area	UX; UY; UZ; RX; RY; RZ
Base	98	65	From Area	UX; UY; UZ; RX; RY; RZ
Base	101	26	From Area	UX; UY; UZ; RX; RY; RZ
Base	104	90	From Area	UX; UY; UZ; RX; RY; RZ
Base	105	94	From Area	UX; UY; UZ; RX; RY; RZ
Base	106	404	From Area	UX; UY; UZ; RX; RY; RZ
Base	107	406	From Area	UX; UY; UZ; RX; RY; RZ
Base	117	31	From Area	UX; UY; UZ; RX; RY; RZ
Base	136	158	From Area	UX; UY; UZ; RX; RY; RZ
Base	137	162	From Area	UX; UY; UZ; RX; RY; RZ
Base	89	100	From Area	UX; UY; UZ; RX; RY; RZ
Base	143	101	From Area	UX; UY; UZ; RX; RY; RZ
Base	145	203	From Area	UX; UY; UZ; RX; RY; RZ
Base	146	206	From Area	UX; UY; UZ; RX; RY; RZ
Base	151	130	From Area	UX; UY; UZ; RX; RY; RZ
Base	152	131	From Area	UX; UY; UZ; RX; RY; RZ
Base	163	208	From Area	UX; UY; UZ; RX; RY; RZ
Base	131	78	From Area	UX; UY; UZ; RX; RY; RZ
Base	132	79	From Area	UX; UY; UZ; RX; RY; RZ
Base	209	86	From Area	UX; UY; UZ; RX; RY; RZ
Base	210	87	From Area	UX; UY; UZ; RX; RY; RZ
Base	211	352	From Area	UX; UY; UZ; RX; RY; RZ
Base	212	353	From Area	UX; UY; UZ; RX; RY; RZ
Base	215	108	From Area	UX; UY; UZ; RX; RY; RZ
Base	216	109	From Area	UX; UY; UZ; RX; RY; RZ
Base	217	112	From Area	UX; UY; UZ; RX; RY; RZ

Story	Label	UniqueName	Diaphragm	Restraints
Base	218	113	From Area	UX; UY; UZ; RX; RY; RZ
Base	21	356	From Area	UX; UY; UZ; RX; RY; RZ
Base	22	357	From Area	UX; UY; UZ; RX; RY; RZ
Base	36	117	From Area	UX; UY; UZ; RX; RY; RZ
Base	39	120	From Area	UX; UY; UZ; RX; RY; RZ
Base	41	416	From Area	UX; UY; UZ; RX; RY; RZ
Base	1	124	From Area	UX; UY; UZ; RX; RY; RZ
Base	2	125	From Area	UX; UY; UZ; RX; RY; RZ
Base	29	146	From Area	UX; UY; UZ; RX; RY; RZ
Base	37	147	From Area	UX; UY; UZ; RX; RY; RZ
Base	86	152	From Area	UX; UY; UZ; RX; RY; RZ
Base	90	153	From Area	UX; UY; UZ; RX; RY; RZ
Base	99	159	From Area	UX; UY; UZ; RX; RY; RZ
Base	110	164	From Area	UX; UY; UZ; RX; RY; RZ
Base	112	174	From Area	UX; UY; UZ; RX; RY; RZ
Base	113	175	From Area	UX; UY; UZ; RX; RY; RZ
Base	114	190	From Area	UX; UY; UZ; RX; RY; RZ
Base	118	191	From Area	UX; UY; UZ; RX; RY; RZ
Base	120	196	From Area	UX; UY; UZ; RX; RY; RZ
Base	121	197	From Area	UX; UY; UZ; RX; RY; RZ
Base	123	202	From Area	UX; UY; UZ; RX; RY; RZ
Base	75	224	From Area	UX; UY; UZ; RX; RY; RZ
Base	77	225	From Area	UX; UY; UZ; RX; RY; RZ
Base	78	232	From Area	UX; UY; UZ; RX; RY; RZ
Base	83	233	From Area	UX; UY; UZ; RX; RY; RZ
Base	85	240	From Area	UX; UY; UZ; RX; RY; RZ
Base	87	241	From Area	UX; UY; UZ; RX; RY; RZ
Base	88	248	From Area	UX; UY; UZ; RX; RY; RZ
Base	124	249	From Area	UX; UY; UZ; RX; RY; RZ
Base	3	272	From Area	UX; UY; UZ; RX; RY; RZ
Base	5	273	From Area	UX; UY; UZ; RX; RY; RZ
Base	20	284	From Area	UX; UY; UZ; RX; RY; RZ
Base	26	285	From Area	UX; UY; UZ; RX; RY; RZ
Base	27	296	From Area	UX; UY; UZ; RX; RY; RZ
Base	28	297	From Area	UX; UY; UZ; RX; RY; RZ
Base	81	328	From Area	UX; UY; UZ; RX; RY; RZ
Base	82	329	From Area	UX; UY; UZ; RX; RY; RZ

3.2 Frame Assignments

Table 3.2 - Frame Assignments - Summary

Story	Label	UniqueName	Design Type	Length m	Analysis Section	Design Section	Max Station Spacing m	Min Number Stations
Story5	B66	301	Beam	4.3	0.3 x 0.9	0.3 x 0.9	0.5	
Story5	B71	291	Beam	4.8	0.45 x 0.55	0.45 x 0.55	0.5	
Story5	B72	295	Beam	4.8	0.45 x 0.55	0.45 x 0.55	0.5	
Story5	B76	296	Beam	4.8	0.45 x 0.55	0.45 x 0.55	0.5	
Story5	B78	302	Beam	7.7	0.3 x 0.9	0.3 x 0.9	0.5	
Story5	B79	303	Beam	4.83	0.3 x 0.9	0.3 x 0.9	0.5	
Story5	B80	304	Beam	4.77	0.3 x 0.9	0.3 x 0.9	0.5	
Story5	B83	307	Beam	7.7	0.3 x 0.9	0.3 x 0.9	0.5	
Story5	B84	300	Beam	4.3	0.3 x 0.9	0.3 x 0.9	0.5	
Story5	B87	277	Beam	4.8	0.45 x 0.55	0.45 x 0.55	0.5	
Story5	B88	280	Beam	4.3	0.3 x 0.9	0.3 x 0.9	0.5	

Story	Label	UniqueName	Design Type	Length m	Analysis Section	Design Section	Max Station Spacing m	Min Number Stations
Story5	B91	281	Beam	4.3	0.3 x 0.9	0.3 x 0.9	0.5	
Story5	B93	283	Beam	4.83	0.3 x 0.9	0.3 x 0.9	0.5	
Story5	B94	284	Beam	4.77	0.3 x 0.9	0.3 x 0.9	0.5	
Story5	B95	285	Beam	7.7	0.3 x 0.9	0.3 x 0.9	0.5	
Story5	B98	289	Beam	2.4	0.6 x 0.55	0.6 x 0.55	0.5	
Story5	B99	290	Beam	2.4	0.45 x 0.55	0.45 x 0.55	0.5	
Story5	B100	287	Beam	17.3	0.3 x 0.9	0.3 x 0.9	0.5	
Story5	B97	288	Beam	11.1	0.3 x 0.9	0.3 x 0.9	0.5	
Story5	B101	282	Beam	7.7	0.3 x 0.9	0.3 x 0.9	0.5	
Story5	B102	286	Beam	3.4	0.3 x 0.9	0.3 x 0.9	0.5	
Story5	B103	278	Beam	4.8	0.3 x 0.9	0.3 x 0.9	0.5	
Story5	B104	279	Beam	4.8	0.45 x 0.55	0.45 x 0.55	0.5	
Story5	B105	297	Beam	4.8	0.45 x 0.55	0.45 x 0.55	0.5	
Story5	B106	298	Beam	4.8	0.45 x 0.55	0.45 x 0.55	0.5	
Story5	B107	299	Beam	4.8	0.45 x 0.55	0.45 x 0.55	0.5	
Story5	B108	309	Beam	7.7	0.3 x 0.9	0.3 x 0.9	0.5	
Story5	B109	310	Beam	3.4	0.3 x 0.9	0.3 x 0.9	0.5	
Story5	B110	305	Beam	7.7	0.3 x 0.9	0.3 x 0.9	0.5	
Story5	B111	306	Beam	3.4	0.3 x 0.9	0.3 x 0.9	0.5	
Story5	B116	308	Beam	9.6	0.3 x 0.9	0.3 x 0.9	0.5	
Story5	B141	354	Beam	38.4	Ipe 550	Ipe 550	0.5	
Story5	B145	356	Beam	38.4	Ipe 550	Ipe 550	0.5	
Story5	B149	357	Beam	38.4	Ipe 550	Ipe 550	0.5	
Story5	B153	358	Beam	38.4	Ipe 550	Ipe 550	0.5	
Story5	B157	345	Beam	38.4	Ipe 550	Ipe 550	0.5	
Story5	B161	337	Beam	48	Ipe 550	Ipe 550	0.5	
Story5	B165	348	Beam	48	Ipe 550	Ipe 550	0.5	
Story5	B169	376	Beam	48	Ipe 550	Ipe 550	0.5	
Story5	B173	381	Beam	48	Ipe 550	Ipe 550	0.5	
Story5	B177	355	Beam	38.4	Ipe 550	Ipe 550	0.5	
Story5	C30	128	Column	3.6	columna 600	columna 600		3
Story5	C31	127	Column	3.6	columna 600	columna 600		3
Story5	C32	126	Column	3.6	columna 600	columna 600		3
Story5	C33	125	Column	3.6	columna 600	columna 600		3
Story5	C2	292	Column	3.6	columna 300	columna 300		3
Story5	C4	294	Column	3.6	columna 300	columna 300		3
Story5	C5	293	Column	3.6	columna 300	columna 300		3
Story5	C10	136	Column	3.6	columna 600	columna 600		3
Story5	C11	135	Column	3.6	columna 600	columna 600		3
Story5	C12	134	Column	3.6	columna 600	columna 600		3
Story5	C13	133	Column	3.6	columna 600	columna 600		3
Story4	B13	334	Beam	9.6	Ipe 550	Ipe 550	0.5	
Story4	B18	335	Beam	9.6	Ipe 550	Ipe 550	0.5	
Story4	B25	331	Beam	9.6	Ipe 550	Ipe 550	0.5	
Story4	B32	326	Beam	9.6	Ipe 550	Ipe 550	0.5	
Story4	B59	329	Beam	9.6	Ipe 550	Ipe 550	0.5	
Story4	B60	328	Beam	9.6	Ipe 550	Ipe 550	0.5	
Story4	B61	327	Beam	9.6	Ipe 550	Ipe 550	0.5	
Story4	B75	324	Beam	4.8	0.45 x 0.55	0.45 x 0.55	0.5	
Story4	B8	270	Beam	4.8	0.50 x 0.55	0.50 x 0.55	0.5	
Story4	B66	259	Beam	4.3	0.45 x 0.55	0.45 x 0.55	0.5	
Story4	B71	276	Beam	4.8	0.45 x 0.55	0.45 x 0.55	0.5	
Story4	B72	275	Beam	4.8	0.45 x 0.55	0.45 x 0.55	0.5	
Story4	B76	274	Beam	4.8	0.45 x 0.55	0.45 x 0.55	0.5	

Story	Label	UniqueName	Design Type	Length m	Analysis Section	Design Section	Max Station Spacing m	Min Number Stations
Story4	B78	260	Beam	7.7	0.45 x 0.55	0.45 x 0.55	0.5	
Story4	B79	261	Beam	4.83	0.45 x 0.55	0.45 x 0.55	0.5	
Story4	B80	262	Beam	4.77	0.45 x 0.55	0.45 x 0.55	0.5	
Story4	B83	266	Beam	7.7	0.45 x 0.55	0.45 x 0.55	0.5	
Story4	B84	265	Beam	4.3	0.45 x 0.55	0.45 x 0.55	0.5	
Story4	B85	322	Beam	4.8	0.45 x 0.55	0.45 x 0.55	0.5	
Story4	B86	244	Beam	4.8	0.50 x 0.55	0.50 x 0.55	0.5	
Story4	B87	245	Beam	4.8	0.50 x 0.55	0.50 x 0.55	0.5	
Story4	B88	250	Beam	4.3	0.45 x 0.55	0.45 x 0.55	0.5	
Story4	B91	251	Beam	4.3	0.45 x 0.55	0.45 x 0.55	0.5	
Story4	B93	253	Beam	4.83	0.45 x 0.55	0.45 x 0.55	0.5	
Story4	B94	254	Beam	4.77	0.45 x 0.55	0.45 x 0.55	0.5	
Story4	B95	255	Beam	7.7	0.45 x 0.55	0.45 x 0.55	0.5	
Story4	B98	248	Beam	2.4	0.5 X 0.6	0.5 X 0.6	0.5	
Story4	B99	249	Beam	2.4	0.5 X 0.6	0.5 X 0.6	0.5	
Story4	B100	257	Beam	17.3	0.45 x 0.55	0.45 x 0.55	0.5	
Story4	B97	258	Beam	11.1	0.5 X 0.6	0.5 X 0.6	0.5	
Story4	B101	252	Beam	7.7	0.45 x 0.55	0.45 x 0.55	0.5	
Story4	B102	256	Beam	3.4	0.45 x 0.55	0.45 x 0.55	0.5	
Story4	B103	247	Beam	4.8	0.5 X 0.6	0.5 X 0.6	0.5	
Story4	B104	246	Beam	4.8	0.50 x 0.55	0.50 x 0.55	0.5	
Story4	B105	273	Beam	4.8	0.45 x 0.55	0.45 x 0.55	0.5	
Story4	B106	271	Beam	4.8	0.5 X 0.6	0.5 X 0.6	0.5	
Story4	B107	272	Beam	4.8	0.40 X 0.55	0.40 X 0.55	0.5	
Story4	B108	268	Beam	7.7	0.45 x 0.55	0.45 x 0.55	0.5	
Story4	B109	269	Beam	3.4	0.45 x 0.55	0.45 x 0.55	0.5	
Story4	B110	263	Beam	7.7	0.45 x 0.55	0.45 x 0.55	0.5	
Story4	B111	264	Beam	3.4	0.6 x 0.55	0.6 x 0.55	0.5	
Story4	B116	267	Beam	9.6	0.45 x 0.55	0.45 x 0.55	0.5	
Story4	B123	325	Beam	4.8	0.45 x 0.55	0.45 x 0.55	0.5	
Story4	B124	323	Beam	4.8	0.45 x 0.55	0.45 x 0.55	0.5	
Story4	B138	330	Beam	28.8	Ipe 550	Ipe 550	0.5	
Story4	C30	120	Column	3.6	columna 600	columna 600		3
Story4	C31	119	Column	3.6	columna 600	columna 600		3
Story4	C32	118	Column	3.6	columna 600	columna 600		3
Story4	C33	117	Column	3.6	columna 600	columna 600		3
Story4	C2	145	Column	3.6	columna 300	columna 300		3
Story4	C4	146	Column	3.6	columna 300	columna 300		3
Story4	C5	147	Column	3.6	columna 300	columna 300		3
Story4	C10	129	Column	3.6	columna 600	columna 600		3
Story4	C11	130	Column	3.6	columna 600	columna 600		3
Story4	C12	131	Column	3.6	columna 600	columna 600		3
Story4	C13	132	Column	3.6	columna 600	columna 600		3
Story3	B13	314	Beam	9.6	Ipe 550	Ipe 550	0.5	
Story3	B18	316	Beam	9.6	Ipe 550	Ipe 550	0.5	
Story3	B25	318	Beam	9.6	Ipe 550	Ipe 550	0.5	
Story3	B32	313	Beam	9.6	Ipe 550	Ipe 550	0.5	
Story3	B59	388	Beam	9.6	Ipe 550	Ipe 550	0.5	
Story3	B60	387	Beam	9.6	Ipe 550	Ipe 550	0.5	
Story3	B61	386	Beam	9.6	Ipe 550	Ipe 550	0.5	
Story3	B75	311	Beam	4.8	0.45 x 0.55	0.45 x 0.55	0.5	
Story3	B8	223	Beam	4.8	0.50 x 0.55	0.50 x 0.55	0.5	
Story3	B66	224	Beam	4.3	0.45 x 0.55	0.45 x 0.55	0.5	
Story3	B71	217	Beam	4.8	0.45 x 0.55	0.45 x 0.55	0.5	

Story	Label	UniqueName	Design Type	Length m	Analysis Section	Design Section	Max Station Spacing m	Min Number Stations
Story3	B72	218	Beam	4.8	0.45 x 0.55	0.45 x 0.55	0.5	
Story3	B76	219	Beam	4.8	0.45 x 0.55	0.45 x 0.55	0.5	
Story3	B78	207	Beam	7.7	0.45 x 0.55	0.45 x 0.55	0.5	
Story3	B79	208	Beam	4.83	0.45 x 0.55	0.45 x 0.55	0.5	
Story3	B80	209	Beam	4.77	0.45 x 0.55	0.45 x 0.55	0.5	
Story3	B81	214	Beam	4.77	0.45 x 0.55	0.45 x 0.55	0.5	
Story3	B82	213	Beam	4.83	0.45 x 0.55	0.45 x 0.55	0.5	
Story3	B83	212	Beam	7.7	0.45 x 0.55	0.45 x 0.55	0.5	
Story3	B84	225	Beam	4.3	0.45 x 0.55	0.45 x 0.55	0.5	
Story3	B85	315	Beam	4.8	0.45 x 0.55	0.45 x 0.55	0.5	
Story3	B86	228	Beam	4.8	0.50 x 0.55	0.50 x 0.55	0.5	
Story3	B87	229	Beam	4.8	0.50 x 0.55	0.50 x 0.55	0.5	
Story3	B88	226	Beam	4.3	0.45 x 0.55	0.45 x 0.55	0.5	
Story3	B91	227	Beam	4.3	0.45 x 0.55	0.45 x 0.55	0.5	
Story3	B93	233	Beam	4.83	0.45 x 0.55	0.45 x 0.55	0.5	
Story3	B94	232	Beam	4.77	0.45 x 0.55	0.45 x 0.55	0.5	
Story3	B95	230	Beam	7.7	0.45 x 0.55	0.45 x 0.55	0.5	
Story3	B98	237	Beam	2.4	0.45 x 0.55	0.45 x 0.55	0.5	
Story3	B99	236	Beam	2.4	0.5 X 0.6	0.5 X 0.6	0.5	
Story3	B100	235	Beam	17.3	0.45 x 0.55	0.45 x 0.55	0.5	
Story3	B97	238	Beam	11.1	0.45 x 0.55	0.45 x 0.55	0.5	
Story3	B101	234	Beam	7.7	0.45 x 0.55	0.45 x 0.55	0.5	
Story3	B102	231	Beam	3.4	0.45 x 0.55	0.45 x 0.55	0.5	
Story3	B104	239	Beam	4.8	0.50 x 0.55	0.50 x 0.55	0.5	
Story3	B105	220	Beam	4.8	0.45 x 0.55	0.45 x 0.55	0.5	
Story3	B106	221	Beam	4.8	0.50 x 0.55	0.50 x 0.55	0.5	
Story3	B107	222	Beam	4.8	0.50 x 0.55	0.50 x 0.55	0.5	
Story3	B108	215	Beam	7.7	0.45 x 0.55	0.45 x 0.55	0.5	
Story3	B109	216	Beam	3.4	0.45 x 0.55	0.45 x 0.55	0.5	
Story3	B110	210	Beam	7.7	0.45 x 0.55	0.45 x 0.55	0.5	
Story3	B111	211	Beam	3.4	0.45 x 0.55	0.45 x 0.55	0.5	
Story3	B112	240	Beam	5.55	0.3 X 0.40	0.3 X 0.40	0.5	
Story3	B113	241	Beam	5.55	0.3 X 0.40	0.3 X 0.40	0.5	
Story3	B114	242	Beam	5.55	0.3 X 0.40	0.3 X 0.40	0.5	
Story3	B115	243	Beam	5.55	0.3 X 0.40	0.3 X 0.40	0.5	
Story3	B123	312	Beam	4.8	0.45 x 0.55	0.45 x 0.55	0.5	
Story3	B124	321	Beam	4.8	0.45 x 0.55	0.45 x 0.55	0.5	
Story3	B138	317	Beam	28.8	lpe 550	lpe 550	0.5	
Story3	C30	116	Column	3.6	COLUMNA 2.40 X 0.3	COLUMNA 2.40 X 0.3		3
Story3	C31	115	Column	3.6	COLUMNA 2.40 X 0.3	COLUMNA 2.40 X 0.3		3
Story3	C32	114	Column	3.6	COLUMNA 2.40 X 0.3	COLUMNA 2.40 X 0.3		3
Story3	C33	113	Column	3.6	COLUMNA 2.40 X 0.3	COLUMNA 2.40 X 0.3		3
Story3	C2	142	Column	3.6	columna 300	columna 300		3
Story3	C4	143	Column	3.6	columna 300	columna 300		3
Story3	C5	144	Column	3.6	columna 300	columna 300		3
Story3	C6	121	Column	3.6	Col 0.3 x 0.3	Col 0.3 x 0.3		3
Story3	C7	122	Column	3.6	Col 0.3 x 0.3	Col 0.3 x 0.3		3
Story3	C8	123	Column	3.6	Col 0.3 x 0.3	Col 0.3 x 0.3		3
Story3	C9	124	Column	3.6	Col 0.3 x 0.3	Col 0.3 x 0.3		3
Story2	B8	188	Beam	4.8	0.50 x 0.55	0.50 x 0.55	0.5	
Story2	B66	205	Beam	4.3	0.45 x 0.55	0.45 x 0.55	0.5	
Story2	B71	189	Beam	4.8	0.45 x 0.55	0.45 x 0.55	0.5	
Story2	B72	190	Beam	4.8	0.45 x 0.55	0.45 x 0.55	0.5	
Story2	B76	191	Beam	4.8	0.45 x 0.55	0.45 x 0.55	0.5	

Story	Label	UniqueName	Design Type	Length m	Analysis Section	Design Section	Max Station Spacing m	Min Number Stations
Story2	B78	200	Beam	7.7	0.45 x 0.55	0.45 x 0.55	0.5	
Story2	B79	201	Beam	4.83	0.45 x 0.55	0.45 x 0.55	0.5	
Story2	B80	202	Beam	4.77	0.45 x 0.55	0.45 x 0.55	0.5	
Story2	B81	197	Beam	4.77	0.45 x 0.55	0.45 x 0.55	0.5	
Story2	B82	196	Beam	4.83	0.45 x 0.55	0.45 x 0.55	0.5	
Story2	B83	195	Beam	7.7	0.45 x 0.55	0.45 x 0.55	0.5	
Story2	B84	206	Beam	4.3	0.45 x 0.55	0.45 x 0.55	0.5	
Story2	B86	182	Beam	4.8	0.50 x 0.55	0.50 x 0.55	0.5	
Story2	B87	183	Beam	4.8	0.50 x 0.55	0.50 x 0.55	0.5	
Story2	B88	173	Beam	4.3	0.45 x 0.55	0.45 x 0.55	0.5	
Story2	B91	176	Beam	4.3	0.45 x 0.55	0.45 x 0.55	0.5	
Story2	B93	178	Beam	4.83	0.45 x 0.55	0.45 x 0.55	0.5	
Story2	B94	179	Beam	4.77	0.45 x 0.55	0.45 x 0.55	0.5	
Story2	B95	180	Beam	7.7	0.45 x 0.55	0.45 x 0.55	0.5	
Story2	B98	184	Beam	2.4	0.5 X 0.6	0.5 X 0.6	0.5	
Story2	B99	185	Beam	2.4	0.5 X 0.6	0.5 X 0.6	0.5	
Story2	B100	174	Beam	17.3	0.45 x 0.55	0.45 x 0.55	0.5	
Story2	B97	175	Beam	11.1	0.45 x 0.55	0.45 x 0.55	0.5	
Story2	B101	177	Beam	7.7	0.45 x 0.55	0.45 x 0.55	0.5	
Story2	B102	181	Beam	3.4	0.45 x 0.55	0.45 x 0.55	0.5	
Story2	B103	186	Beam	4.8	0.50 x 0.55	0.50 x 0.55	0.5	
Story2	B104	187	Beam	4.8	0.50 x 0.55	0.50 x 0.55	0.5	
Story2	B105	192	Beam	4.8	0.45 x 0.55	0.45 x 0.55	0.5	
Story2	B106	193	Beam	4.8	0.50 x 0.55	0.50 x 0.55	0.5	
Story2	B107	194	Beam	4.8	0.50 x 0.55	0.50 x 0.55	0.5	
Story2	B108	198	Beam	7.7	0.45 x 0.55	0.45 x 0.55	0.5	
Story2	B109	199	Beam	3.4	0.45 x 0.55	0.45 x 0.55	0.5	
Story2	B110	203	Beam	7.7	0.45 x 0.55	0.45 x 0.55	0.5	
Story2	B111	204	Beam	3.4	0.45 x 0.55	0.45 x 0.55	0.5	
Story2	C30	112	Column	3.6	COLUMNA 2.40 X 0.3	COLUMNA 2.40 X 0.3		3
Story2	C31	111	Column	3.6	COLUMNA 2.40 X 0.3	COLUMNA 2.40 X 0.3		3
Story2	C32	110	Column	3.6	COLUMNA 2.40 X 0.3	COLUMNA 2.40 X 0.3		3
Story2	C33	109	Column	3.6	COLUMNA 2.40 X 0.3	COLUMNA 2.40 X 0.3		3
Story1	B3	39	Beam	9.6	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B4	40	Beam	9.6	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B5	41	Beam	9.6	0.70 x 0.55	0.70 x 0.55	0.5	
Story1	B6	42	Beam	9.6	0.70 x 0.55	0.70 x 0.55	0.5	
Story1	B7	43	Beam	9.6	0.70 x 0.55	0.70 x 0.55	0.5	
Story1	B11	44	Beam	9.6	0.70 x 0.55	0.70 x 0.55	0.5	
Story1	B12	45	Beam	9.6	0.70 x 0.55	0.70 x 0.55	0.5	
Story1	B13	46	Beam	9.6	0.70 x 0.55	0.70 x 0.55	0.5	
Story1	B14	47	Beam	4.8	0.70 x 0.55	0.70 x 0.55	0.5	
Story1	B15	48	Beam	9.6	0.70 x 0.55	0.70 x 0.55	0.5	
Story1	B16	49	Beam	9.6	0.70 x 0.55	0.70 x 0.55	0.5	
Story1	B17	50	Beam	9.6	0.70 x 0.55	0.70 x 0.55	0.5	
Story1	B18	51	Beam	9.6	0.70 x 0.55	0.70 x 0.55	0.5	
Story1	B19	52	Beam	9.6	0.70 x 0.55	0.70 x 0.55	0.5	
Story1	B20	53	Beam	9.6	0.70 x 0.55	0.70 x 0.55	0.5	
Story1	B21	54	Beam	7.2	0.70 x 0.55	0.70 x 0.55	0.5	
Story1	B22	55	Beam	9.6	0.70 x 0.55	0.70 x 0.55	0.5	
Story1	B23	56	Beam	9.6	0.70 x 0.55	0.70 x 0.55	0.5	
Story1	B24	57	Beam	9.6	0.70 x 0.55	0.70 x 0.55	0.5	
Story1	B25	58	Beam	9.6	0.70 x 0.55	0.70 x 0.55	0.5	
Story1	B26	59	Beam	9.6	0.70 x 0.55	0.70 x 0.55	0.5	

Story	Label	UniqueName	Design Type	Length m	Analysis Section	Design Section	Max Station Spacing m	Min Number Stations
Story1	B28	60	Beam	7.2	0.70 x 0.55	0.70 x 0.55	0.5	
Story1	B29	61	Beam	9.6	0.70 x 0.55	0.70 x 0.55	0.5	
Story1	B30	62	Beam	9.6	0.70 x 0.55	0.70 x 0.55	0.5	
Story1	B31	63	Beam	9.6	0.70 x 0.55	0.70 x 0.55	0.5	
Story1	B32	64	Beam	9.6	0.70 x 0.55	0.70 x 0.55	0.5	
Story1	B33	65	Beam	9.6	0.70 x 0.55	0.70 x 0.55	0.5	
Story1	B34	66	Beam	9.6	0.70 x 0.55	0.70 x 0.55	0.5	
Story1	B35	67	Beam	9.6	0.40 X 0.55	0.40 X 0.55	0.5	
Story1	B36	68	Beam	10.7331	0.40 X 0.55	0.40 X 0.55	0.5	
Story1	B37	69	Beam	9.8955	0.40 X 0.55	0.40 X 0.55	0.5	
Story1	B38	70	Beam	9.6	0.40 X 0.55	0.40 X 0.55	0.5	
Story1	B39	71	Beam	9.6	0.40 X 0.55	0.40 X 0.55	0.5	
Story1	B40	72	Beam	7.2	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B41	73	Beam	9.6	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B42	74	Beam	9.6	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B43	75	Beam	9.6	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B44	76	Beam	9.6	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B45	77	Beam	9.6	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B46	78	Beam	9.6	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B47	79	Beam	9.6	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B48	80	Beam	9.6	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B49	81	Beam	9.6	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B50	82	Beam	9.6	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B51	83	Beam	9.6	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B52	84	Beam	9.6	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B53	85	Beam	9.6	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B54	86	Beam	9.6	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B55	87	Beam	9.6	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B56	88	Beam	9.6	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B57	89	Beam	9.6	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B58	90	Beam	4.8	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B59	91	Beam	9.6	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B60	92	Beam	9.6	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B61	93	Beam	9.6	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B62	94	Beam	4.8	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B63	95	Beam	9.6	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B64	96	Beam	9.6	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B65	97	Beam	9.6	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B67	98	Beam	9.6	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B69	99	Beam	9.6	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B70	100	Beam	4.8	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B73	101	Beam	9.6	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B74	102	Beam	4.8	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B75	103	Beam	4.8	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B77	104	Beam	4.8	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B9	105	Beam	4.8	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B10	106	Beam	4.8001	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B89	107	Beam	2.62	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B90	108	Beam	9.6	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B1	138	Beam	9.6	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B2	139	Beam	9.6	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B27	140	Beam	9.6	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B68	141	Beam	9.6	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B8	148	Beam	4.8	0.50 x 0.55	0.50 x 0.55	0.5	

Story	Label	UniqueName	Design Type	Length m	Analysis Section	Design Section	Max Station Spacing m	Min Number Stations
Story1	B66	149	Beam	4.3	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B71	150	Beam	4.8	0.50 x 0.55	0.50 x 0.55	0.5	
Story1	B72	151	Beam	4.8	0.50 x 0.55	0.50 x 0.55	0.5	
Story1	B76	152	Beam	4.8	0.50 x 0.55	0.50 x 0.55	0.5	
Story1	B78	153	Beam	7.7	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B79	154	Beam	4.83	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B80	155	Beam	4.77	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B81	156	Beam	4.77	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B82	157	Beam	4.83	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B83	158	Beam	7.7	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B84	159	Beam	4.3	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B85	160	Beam	4.8	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B86	161	Beam	4.8	0.50 x 0.55	0.50 x 0.55	0.5	
Story1	B87	162	Beam	4.8	0.50 x 0.55	0.50 x 0.55	0.5	
Story1	B88	163	Beam	4.3	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B91	164	Beam	4.3	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B92	165	Beam	3.77	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B93	166	Beam	4.83	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B94	167	Beam	4.77	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B95	168	Beam	7.7	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	B96	169	Beam	4.8	0.50 x 0.55	0.50 x 0.55	0.5	
Story1	B98	170	Beam	2.4	0.5 X 0.6	0.5 X 0.6	0.5	
Story1	B99	171	Beam	2.4	0.5 X 0.6	0.5 X 0.6	0.5	
Story1	B100	172	Beam	17.3	0.6 x 0.55	0.6 x 0.55	0.5	
Story1	C30	1	Column	3.06	COLUMNA 2.40 X 0.3	COLUMNA 2.40 X 0.3		3
Story1	C31	2	Column	3.06	COLUMNA 2.40 X 0.3	COLUMNA 2.40 X 0.3		3
Story1	C32	3	Column	3.06	COLUMNA 2.40 X 0.3	COLUMNA 2.40 X 0.3		3
Story1	C33	4	Column	3.06	COLUMNA 2.40 X 0.3	COLUMNA 2.40 X 0.3		3
Story1	C40	5	Column	3.06	COL 1.20 X 0.30	COL 1.20 X 0.30		3
Story1	C41	6	Column	3.06	COL 1.20 X 0.30	COL 1.20 X 0.30		3
Story1	C42	7	Column	3.06	COL 1.20 X 0.30	COL 1.20 X 0.30		3
Story1	C43	8	Column	3.06	COL 1.20 X 0.30	COL 1.20 X 0.30		3
Story1	C44	9	Column	3.06	COL 1.20 X 0.30	COL 1.20 X 0.30		3
Story1	C45	10	Column	3.06	COL 1.20 X 0.30	COL 1.20 X 0.30		3
Story1	C46	11	Column	3.06	COL 1.20 X 0.30	COL 1.20 X 0.30		3
Story1	C47	12	Column	3.06	COL 1.20 X 0.30	COL 1.20 X 0.30		3
Story1	C49	13	Column	3.06	COL 1.20 X 0.30	COL 1.20 X 0.30		3
Story1	C50	14	Column	3.06	COL 1.20 X 0.30	COL 1.20 X 0.30		3
Story1	C52	15	Column	3.06	COL 1.20 X 0.30	COL 1.20 X 0.30		3
Story1	C53	16	Column	3.06	COL 1.20 X 0.30	COL 1.20 X 0.30		3
Story1	C54	17	Column	3.06	COL 1.20 X 0.30	COL 1.20 X 0.30		3
Story1	C55	18	Column	3.06	COL 1.20 X 0.30	COL 1.20 X 0.30		3
Story1	C56	19	Column	3.06	COL 1.20 X 0.30	COL 1.20 X 0.30		3
Story1	C57	20	Column	3.06	COL 1.20 X 0.30	COL 1.20 X 0.30		3
Story1	C58	21	Column	3.06	COL 1.20 X 0.30	COL 1.20 X 0.30		3
Story1	C59	22	Column	3.06	COL 1.20 X 0.30	COL 1.20 X 0.30		3
Story1	C60	23	Column	3.06	COL 1.20 X 0.30	COL 1.20 X 0.30		3
Story1	C61	24	Column	3.06	COL 1.20 X 0.30	COL 1.20 X 0.30		3
Story1	C62	25	Column	3.06	COL 1.20 X 0.30	COL 1.20 X 0.30		3
Story1	C63	26	Column	3.06	COL 1.20 X 0.30	COL 1.20 X 0.30		3
Story1	C64	27	Column	3.06	COL 1.20 X 0.30	COL 1.20 X 0.30		3
Story1	C65	28	Column	3.06	COL 1.20 X 0.30	COL 1.20 X 0.30		3
Story1	C66	29	Column	3.06	COL 1.20 X 0.30	COL 1.20 X 0.30		3
Story1	C67	30	Column	3.06	COL 1.20 X 0.30	COL 1.20 X 0.30		3

Story	Label	UniqueName	Design Type	Length m	Analysis Section	Design Section	Max Station Spacing m	Min Number Stations
Story1	C68	31	Column	3.06	COL 1.20 X 0.30	COL 1.20 X 0.30		3
Story1	C69	32	Column	3.06	COL 1.20 X 0.30	COL 1.20 X 0.30		3
Story1	C70	33	Column	3.06	COL 1.20 X 0.30	COL 1.20 X 0.30		3
Story1	C71	34	Column	3.06	COL 1.20 X 0.30	COL 1.20 X 0.30		3
Story1	C72	35	Column	3.06	COL 1.20 X 0.30	COL 1.20 X 0.30		3
Story1	C73	36	Column	3.06	COL 1.20 X 0.30	COL 1.20 X 0.30		3
Story1	C75	37	Column	3.06	COL 1.20 X 0.6	COL 1.20 X 0.6		3
Story1	C3	38	Column	3.06	COL 1.20 X 0.30	COL 1.20 X 0.30		3
Story1	C14	137	Column	3.06	COL 1.20 X 0.6	COL 1.20 X 0.6		3

3.3 Shell Assignments

Table 3.3 - Area Assignments - Summary

Story	Label	UniqueName	Section Property	Property Type	Diaphragm	Pier
Story5	F10	272	LOZA MACIZA 190 MM	Slab	D5	
Story5	F48	283	LOZA MACIZA 190 MM	Slab	D5	
Story5	F50	268	LOZA MACIZA 190 MM	Slab	D5	
Story5	F51	288	LOZA MACIZA 190 MM	Slab	D5	
Story5	F52	287	LOZA MACIZA 190 MM	Slab	D5	
Story5	F53	286	LOZA MACIZA 190 MM	Slab	D5	
Story5	F54	282	LOZA MACIZA 190 MM	Slab	D5	
Story5	F55	281	LOZA MACIZA 190 MM	Slab	D5	
Story5	F56	285	LOZA MACIZA 190 MM	Slab	D5	
Story5	F57	278	LOZA MACIZA 190 MM	Slab	D5	
Story5	F58	279	LOZA MACIZA 190 MM	Slab	D5	
Story5	F59	271	LOZA MACIZA 190 MM	Slab	D5	
Story5	F60	270	LOZA MACIZA 190 MM	Slab	D5	
Story5	F61	269	LOZA MACIZA 190 MM	Slab	D5	
Story5	F3	248	LOZA MACIZA 190 MM	Slab	D5	
Story5	F4	264	LOZA MACIZA 190 MM	Slab	D5	
Story5	F12	219	LOZA MACIZA 190 MM	Slab	D5	
Story5	F14	228	LOZA MACIZA 190 MM	Slab	D5	
Story5	F20	238	LOZA MACIZA 190 MM	Slab	D5	
Story5	F22	243	LOZA MACIZA 190 MM	Slab	D5	
Story5	F24	244	LOZA MACIZA 190 MM	Slab	D5	
Story5	F25	253	LOZA MACIZA 190 MM	Slab	D5	
Story5	F15	242	LOZA MACIZA 190 MM	Slab	D5	
Story5	F31	245	LOZA MACIZA 190 MM	Slab	D5	
Story5	F62	246	LOZA MACIZA 190 MM	Slab	D5	
Story5	F63	247	LOZA MACIZA 190 MM	Slab	D5	
Story5	F64	249	LOZA MACIZA 190 MM	Slab	D5	
Story5	F66	250	LOZA MACIZA 190 MM	Slab	D5	
Story5	F67	251	LOZA MACIZA 190 MM	Slab	D5	
Story5	F68	252	LOZA MACIZA 190 MM	Slab	D5	
Story5	F16	273	LOZA MACIZA 190 MM	Slab	D5	
Story5	F17	274	LOZA MACIZA 190 MM	Slab	D5	
Story5	F27	275	LOZA MACIZA 190 MM	Slab	D5	
Story5	F28	276	LOZA MACIZA 190 MM	Slab	D5	
Story5	F29	277	LOZA MACIZA 190 MM	Slab	D5	
Story5	F85	280	LOZA MACIZA 190 MM	Slab	D5	
Story5	F86	284	LOZA MACIZA 190 MM	Slab	D5	
Story5	F87	289	LOZA MACIZA 190 MM	Slab	D5	

Story	Label	UniqueName	Section Property	Property Type	Diaphragm	Pier
Story5	F88	290	LOZA MACIZA 190 MM	Slab	D5	
Story5	F89	291	LOZA MACIZA 190 MM	Slab	D5	
Story5	F90	292	LOZA MACIZA 190 MM	Slab	D5	
Story5	W12	265	0.30	Wall		M13
Story5	W22	44	0.30	Wall		M9
Story5	W41	96	0.30	Wall		M13-3
Story5	W36	262	0.30	Wall		M4-3
Story5	W65	263	0.30	Wall		M4-2
Story5	W66	32	0.30	Wall		M18
Story5	W68	266	0.30	Wall		M4-1
Story5	W69	267	0.30	Wall		M4
Story5	W32	137	0.30	Wall		M16
Story5	W74	135	0.30	Wall		M17
Story5	W75	161	0.30	Wall		M11-1
Story5	W76	162	0.30	Wall		M13-1
Story5	W77	163	0.30	Wall		M11
Story5	W79	140	0.30	Wall		M5
Story5	W80	155	0.30	Wall		M8
Story5	W81	95	0.30	Wall		M11-3
Story5	W82	97	0.30	Wall		M11-2
Story5	W18	142	0.30	Wall		M6
Story5	W20	144	0.30	Wall		M6a
Story5	W21	151	0.30	Wall		M6a-1
Story5	W37	153	0.30	Wall		M7
Story5	W1	123	0.30	Wall		M18a
Story5	W3	128	0.30	Wall		M21
Story5	W11	133	0.30	Wall		M21-1
Story5	W13	149	0.30	Wall		M6b
Story4	F59	256	LOZA MACIZA 190 MM	Slab	D4	
Story4	F60	257	LOZA MACIZA 190 MM	Slab	D4	
Story4	F61	258	LOZA MACIZA 190 MM	Slab	D4	
Story4	F1	203	MACIZA ESCALERAS	Slab		
Story4	F2	207	MACIZA ESCALERAS	Slab	D4	
Story4	F6	211	MACIZA RAMPAS	Slab	D4	
Story4	F11	215	MACIZA RAMPAS	Slab	D4	
Story4	F12	220	LOZA MACIZA 190 MM	Slab	D4	
Story4	F14	229	LOZA MACIZA 190 MM	Slab	D4	
Story4	F18	232	MACIZA ESCALERAS	Slab	D4	
Story4	F19	235	MACIZA ESCALERAS	Slab	D4	
Story4	F20	239	LOZA MACIZA 190 MM	Slab	D4	
Story4	F30	260	LOZA MACIZA 190 MM	Slab	D4	
Story4	F70	259	LOZA MACIZA 190 MM	Slab	D4	
Story4	W12	164	0.30	Wall		M13
Story4	W22	43	0.30	Wall		M9
Story4	W41	93	0.30	Wall		M13-3
Story4	W36	28	0.30	Wall		M4-3
Story4	W52	29	0.30	Wall		M13-2
Story4	W65	30	0.30	Wall		M4-2
Story4	W66	138	0.30	Wall		M18
Story4	W68	165	0.30	Wall		M4-1
Story4	W69	166	0.30	Wall		M4
Story4	W32	136	0.30	Wall		M16
Story4	W74	134	0.30	Wall		M17
Story4	W75	158	0.30	Wall		M11-1
Story4	W76	159	0.30	Wall		M13-1

Story	Label	UniqueName	Section Property	Property Type	Diaphragm	Pier
Story4	W77	160	0.30	Wall		M11
Story4	W79	139	0.30	Wall		M5
Story4	W80	154	0.30	Wall		M8
Story4	W81	92	0.30	Wall		M11-3
Story4	W82	94	0.30	Wall		M11-2
Story4	W18	141	0.30	Wall		M6
Story4	W20	143	0.30	Wall		M6a
Story4	W21	150	0.30	Wall		M6a-1
Story4	W37	152	0.30	Wall		M7
Story4	W1	122	0.30	Wall		M18a
Story4	W3	127	0.30	Wall		M21
Story4	W11	132	0.30	Wall		M21-1
Story4	W13	148	0.30	Wall		M6b
Story3	F59	295	LOZA MACIZA 190 MM	Slab	D3	
Story3	F60	294	LOZA MACIZA 190 MM	Slab	D3	
Story3	F61	293	LOZA MACIZA 190 MM	Slab	D3	
Story3	F1	204	MACIZA ESCALERAS	Slab		
Story3	F2	208	MACIZA ESCALERAS	Slab	D3	
Story3	F6	212	MACIZA RAMPAS	Slab	D3	
Story3	F11	216	MACIZA RAMPAS	Slab	D3	
Story3	F12	221	LOZA MACIZA 190 MM	Slab	D3	
Story3	F14	230	LOZA MACIZA 190 MM	Slab	D3	
Story3	F18	233	MACIZA ESCALERAS	Slab	D3	
Story3	F19	236	MACIZA ESCALERAS	Slab	D3	
Story3	F20	240	LOZA MACIZA 190 MM	Slab	D3	
Story3	F23	241	LOZA MACIZA 190 MM	Slab	D3	
Story3	F69	254	LOZA MACIZA 190 MM	Slab	D3	
Story3	F70	255	LOZA MACIZA 190 MM	Slab	D3	
Story3	W6	115	0.30	Wall		M20
Story3	W12	7	0.30	Wall		M13
Story3	W22	42	0.30	Wall		M9
Story3	W41	14	0.30	Wall		M13-3
Story3	W55	15	0.30	Wall		P64
Story3	W56	16	0.30	Wall		P65
Story3	W57	17	0.30	Wall		P66
Story3	W58	18	0.30	Wall		P67
Story3	W36	25	0.30	Wall		M4-3
Story3	W52	26	0.30	Wall		M13-2
Story3	W65	27	0.30	Wall		M4-2
Story3	W66	112	0.30	Wall		M18
Story3	W68	39	0.30	Wall		M4-1
Story3	W69	40	0.30	Wall		M4
Story3	W32	118	0.30	Wall		M16
Story3	W74	117	0.30	Wall		M17
Story3	W75	71	0.30	Wall		M11-1
Story3	W76	72	0.30	Wall		M13-1
Story3	W77	73	0.30	Wall		M11
Story3	W79	98	0.30	Wall		M5
Story3	W80	111	0.30	Wall		M8
Story3	W81	90	0.30	Wall		M11-3
Story3	W82	91	0.30	Wall		M11-2
Story3	W18	101	0.30	Wall		M6
Story3	W20	104	0.30	Wall		M6a
Story3	W21	107	0.30	Wall		M6a-1
Story3	W37	110	0.30	Wall		M7

Story	Label	UniqueName	Section Property	Property Type	Diaphragm	Pier
Story3	W1	121	0.30	Wall		M18a
Story3	W3	126	0.30	Wall		M21
Story3	W11	131	0.30	Wall		M21-1
Story3	W13	147	0.30	Wall		M6b
Story3	W24	50	0.30	Wall		M18a
Story3	W25	51	0.30	Wall		M18a
Story3	W42	78	0.30	Wall		M21
Story3	W43	79	0.30	Wall		M21
Story3	W45	304	0.30	Wall		M21-1
Story3	W46	313	0.30	Wall		M21-1
Story2	F2	209	MACIZA ESCALERAS	Slab	D2	
Story2	F3	1	MACIZA ESCALERAS	Slab		
Story2	F6	213	MACIZA RAMPAS	Slab	D2	
Story2	F11	217	MACIZA RAMPAS	Slab	D2	
Story2	F12	222	LOZA MACIZA 190 MM	Slab	D2	
Story2	F18	231	MACIZA ESCALERAS	Slab	D2	
Story2	F21	227	LOZA MACIZA 190 MM	Slab	D2	
Story2	F25	234	MACIZA ESCALERAS	Slab	D2	
Story2	F26	237	LOZA MACIZA 190 MM	Slab	D2	
Story2	W6	56	0.30	Wall		M20
Story2	W8	58	0.30	Wall		M20-2
Story2	W9	55	0.30	Wall		M20-1
Story2	W12	6	0.30	Wall		M13
Story2	W22	13	0.30	Wall		M9
Story2	W41	88	0.30	Wall		M13-3
Story2	W44	53	0.30	Wall		M19
Story2	W36	22	0.30	Wall		M4-3
Story2	W52	23	0.30	Wall		M13-2
Story2	W65	24	0.30	Wall		M4-2
Story2	W66	49	0.30	Wall		M18
Story2	W68	37	0.30	Wall		M4-1
Story2	W69	38	0.30	Wall		M4
Story2	W32	62	0.30	Wall		M16
Story2	W74	64	0.30	Wall		M17
Story2	W75	68	0.30	Wall		M11-1
Story2	W76	69	0.30	Wall		M13-1
Story2	W77	70	0.30	Wall		M11
Story2	W79	81	0.30	Wall		M5
Story2	W80	83	0.30	Wall		M8
Story2	W81	87	0.30	Wall		M11-3
Story2	W82	89	0.30	Wall		M11-2
Story2	W18	100	0.30	Wall		M6
Story2	W20	103	0.30	Wall		M6a
Story2	W21	106	0.30	Wall		M6a-1
Story2	W37	109	0.30	Wall		M7
Story2	W1	120	0.30	Wall		M18a
Story2	W3	125	0.30	Wall		M21
Story2	W11	130	0.30	Wall		M21-1
Story2	W13	146	0.30	Wall		M6b
Story2	W10	47	0.30	Wall		M6
Story2	W15	157	0.30	Wall		M6
Story2	W23	299	0.30	Wall		M6a
Story2	W29	300	0.30	Wall		M6a
Story2	W33	307	0.30	Wall		M6a-1
Story2	W34	308	0.30	Wall		M6a-1

Story	Label	UniqueName	Section Property	Property Type	Diaphragm	Pier
Story2	W38	311	0.30	Wall		M7
Story2	W39	312	0.30	Wall		M7
Story2	W24	74	0.30	Wall		M18a
Story2	W25	75	0.30	Wall		M18a
Story2	W42	113	0.30	Wall		M21
Story2	W43	114	0.30	Wall		M21
Story2	W45	314	0.30	Wall		M21-1
Story2	W46	315	0.30	Wall		M21-1
Story1	F5	170	LOZA MACIZA 190 MM	Slab	D1	
Story1	F7	167	LOZA MACIZA 190 MM	Slab	D1	
Story1	F8	168	LOZA MACIZA 190 MM	Slab	D1	
Story1	F9	169	LOZA MACIZA 190 MM	Slab	D1	
Story1	F10	171	LOZA MACIZA 190 MM	Slab	D1	
Story1	F32	193	LOZA MACIZA 190 MM	Slab	D1	
Story1	F33	194	LOZA MACIZA 190 MM	Slab	D1	
Story1	F34	195	LOZA MACIZA 190 MM	Slab	D1	
Story1	F35	196	LOZA MACIZA 190 MM	Slab	D1	
Story1	F36	197	LOZA MACIZA 190 MM	Slab	D1	
Story1	F37	198	LOZA MACIZA 190 MM	Slab	D1	
Story1	F38	199	LOZA MACIZA 190 MM	Slab	D1	
Story1	F39	200	LOZA MACIZA 190 MM	Slab	D1	
Story1	F40	201	LOZA MACIZA 190 MM	Slab	D1	
Story1	F41	172	LOZA MACIZA 190 MM	Slab	D1	
Story1	F42	173	LOZA MACIZA 190 MM	Slab	D1	
Story1	F43	174	LOZA MACIZA 190 MM	Slab	D1	
Story1	F44	175	LOZA MACIZA 190 MM	Slab	D1	
Story1	F45	176	LOZA MACIZA 190 MM	Slab	D1	
Story1	F46	177	LOZA MACIZA 190 MM	Slab	D1	
Story1	F47	178	LOZA MACIZA 190 MM	Slab	D1	
Story1	F48	179	LOZA MACIZA 190 MM	Slab	D1	
Story1	F49	180	LOZA MACIZA 190 MM	Slab	D1	
Story1	F50	181	LOZA MACIZA 190 MM	Slab	D1	
Story1	F51	182	LOZA MACIZA 190 MM	Slab	D1	
Story1	F52	183	LOZA MACIZA 190 MM	Slab	D1	
Story1	F53	184	LOZA MACIZA 190 MM	Slab	D1	
Story1	F54	185	LOZA MACIZA 190 MM	Slab	D1	
Story1	F55	186	LOZA MACIZA 190 MM	Slab	D1	
Story1	F56	187	LOZA MACIZA 190 MM	Slab	D1	
Story1	F57	188	LOZA MACIZA 190 MM	Slab	D1	
Story1	F58	189	LOZA MACIZA 190 MM	Slab	D1	
Story1	F59	190	LOZA MACIZA 190 MM	Slab	D1	
Story1	F60	191	LOZA MACIZA 190 MM	Slab	D1	
Story1	F61	192	LOZA MACIZA 190 MM	Slab	D1	
Story1	F3	202	MACIZA ESCALERAS	Slab	D1	
Story1	F4	206	MACIZA ESCALERAS	Slab	D1	
Story1	F6	210	MACIZA RAMPAS	Slab	D1	
Story1	F11	214	MACIZA RAMPAS	Slab	D1	
Story1	F13	218	LOZA MACIZA 190 MM	Slab	D1	
Story1	F21	223	LOZA MACIZA 190 MM	Slab	D1	
Story1	F22	224	LOZA MACIZA 190 MM	Slab	D1	
Story1	F23	225	LOZA MACIZA 190 MM	Slab	D1	
Story1	F24	226	LOZA MACIZA 190 MM	Slab	D1	
Story1	W6	4	0.30	Wall		M20
Story1	W8	57	0.30	Wall		M20-2
Story1	W9	5	0.30	Wall		M20-1

Story	Label	UniqueName	Section Property	Property Type	Diaphragm	Pier
Story1	W12	35	0.30	Wall		M13
Story1	W26	10	0.30	Wall		M14-1
Story1	W22	41	0.30	Wall		M9
Story1	W41	85	0.30	Wall		M13-3
Story1	W44	52	0.30	Wall		M19
Story1	W36	19	0.30	Wall		M4-3
Story1	W52	20	0.30	Wall		M13-2
Story1	W65	21	0.30	Wall		M4-2
Story1	W66	31	0.30	Wall		M18
Story1	W68	34	0.30	Wall		M4-1
Story1	W69	36	0.30	Wall		M4
Story1	W17	48	0.30	Wall		M14
Story1	W32	61	0.30	Wall		M16
Story1	W74	63	0.30	Wall		M17
Story1	W75	65	0.30	Wall		M11-1
Story1	W76	66	0.30	Wall		M13-1
Story1	W77	67	0.30	Wall		M11
Story1	W79	80	0.30	Wall		M5
Story1	W80	82	0.30	Wall		M8
Story1	W81	84	0.30	Wall		M11-3
Story1	W82	86	0.30	Wall		M11-2
Story1	W18	99	0.30	Wall		M6
Story1	W20	102	0.30	Wall		M6a
Story1	W21	105	0.30	Wall		M6a-1
Story1	W37	108	0.30	Wall		M7
Story1	W1	119	0.30	Wall		M18a
Story1	W3	124	0.30	Wall		M21
Story1	W11	129	0.30	Wall		M21-1
Story1	W13	145	0.30	Wall		M6b
Story1	W2	2	0.30	Wall		M5
Story1	W4	205	0.30	Wall		M5
Story1	W14	296	0.30	Wall		M8
Story1	W16	297	0.30	Wall		M6
Story1	W19	298	0.30	Wall		M6
Story1	W23	302	0.30	Wall		M6a
Story1	W30	301	0.30	Wall		M6a
Story1	W33	305	0.30	Wall		M6a-1
Story1	W34	306	0.30	Wall		M6a-1
Story1	W38	309	0.30	Wall		M7
Story1	W39	310	0.30	Wall		M7
Story1	W35	45	0.30	Wall		M19
Story1	W40	46	0.30	Wall		M19
Story1	W24	9	0.30	Wall		M18a
Story1	W25	33	0.30	Wall		M18a
Story1	W42	76	0.30	Wall		M21
Story1	W43	77	0.30	Wall		M21
Story1	W45	156	0.30	Wall		M21-1
Story1	W46	303	0.30	Wall		M21-1
Base	F1	261	Deck1	Deck		

4 Loads

This chapter provides loading information as applied to the model.

4.1 Load Patterns

Table 4.1 - Load Pattern Definitions

Name	Is Auto Load	Type	Self Weight Multiplier	Auto Load
~LLRF	Yes	Other	0	
Dead	No	Dead	1	
FHEX	No	Seismic	0	User Coefficient
FHEY	No	Seismic	0	User Coefficient
Live	No	Live	0	
SD	No	Super Dead	0	

4.2 Load Sets

Table 4.2 - Shell Uniform Load Sets

Name	Load Pattern	Load Value tonf/m2
cubierta	SD	0.357
cubierta	Live	0.255
pasillos	SD	0.357
pasillos	Live	0.51
zona escaleras	SD	0.357
zona escaleras	Live	0.51

4.3 Auto Seismic Loading

User Coefficient Auto Seismic Load Calculation

This calculation presents the automatically generated lateral seismic loads for load pattern FHEX using the user input coefficients, as calculated by ETABS.

Direction and Eccentricity

Direction = X

Eccentricity Ratio = 0% for all diaphragms

Factors and Coefficients

Equivalent Lateral Forces

Base Shear Coefficient, C

C = 0.898

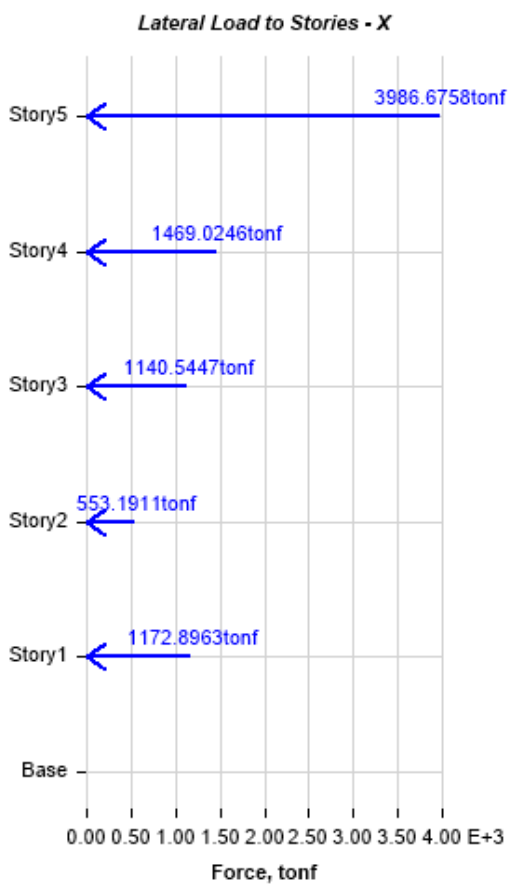
Base Shear, V

$$V = CW$$

Calculated Base Shear

Direction	Period Used (sec)	C	W (tonf)	V (tonf)
X	0	0	9267.63091	8322.3326

Applied Story Forces



Story	Elevation	X-Dir	Y-Dir
	m	tonf	tonf
Story5	14.4	3986.6758	0
Story4	10.8	1469.0246	0
Story3	7.2	1140.5447	0
Story2	3.6	553.1911	0
Story1	0	1172.8963	0
Base	-3.06	0	0

User Coefficient Auto Seismic Load Calculation

This calculation presents the automatically generated lateral seismic loads for load pattern FHEY using the user input coefficients, as calculated by ETABS.

Direction and Eccentricity

Direction = Y

Eccentricity Ratio = 0% for all diaphragms

Factors and Coefficients

Equivalent Lateral Forces

Base Shear Coefficient, C

C = 0.898

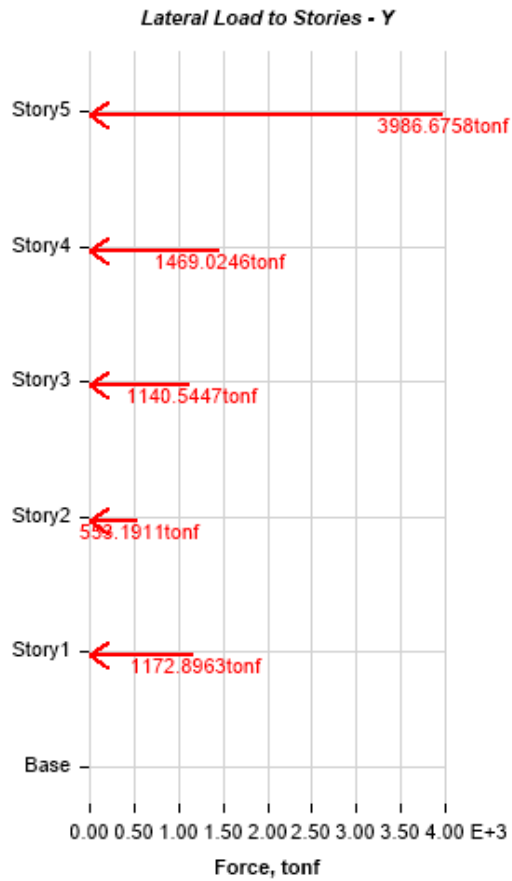
Base Shear, V

$$V = CW$$

Calculated Base Shear

Direction	Period Used (sec)	C	W (tonf)	V (tonf)
Y	0	0	9267.63091	8322.3326

Applied Story Forces



Story	Elevation	X-Dir	Y-Dir
	m	tonf	tonf
Story5	14.4	0	3986.6758
Story4	10.8	0	1469.0246
Story3	7.2	0	1140.5447
Story2	3.6	0	553.1911
Story1	0	0	1172.8963
Base	-3.06	0	0

4.4 Applied Loads

4.4.1 Area Loads

Table 4.5 - Area Load Assignments - Uniform Load Sets

Story	Label	UniqueName	Load Set
Story5	F10	272	cubierta
Story5	F48	283	cubierta
Story5	F50	268	cubierta
Story5	F51	288	cubierta
Story5	F52	287	cubierta
Story5	F53	286	cubierta
Story5	F54	282	cubierta
Story5	F55	281	cubierta
Story5	F56	285	cubierta
Story5	F57	278	cubierta
Story5	F58	279	cubierta
Story5	F59	271	cubierta
Story5	F60	270	cubierta
Story5	F61	269	cubierta
Story5	F3	248	cubierta
Story5	F4	264	cubierta
Story5	F12	219	cubierta
Story5	F14	228	cubierta
Story5	F20	238	cubierta
Story5	F22	243	cubierta
Story5	F24	244	cubierta
Story5	F25	253	cubierta
Story5	F15	242	cubierta
Story5	F31	245	cubierta
Story5	F62	246	cubierta
Story5	F63	247	cubierta
Story5	F64	249	cubierta
Story5	F66	250	cubierta
Story5	F67	251	cubierta
Story5	F68	252	cubierta
Story5	F16	273	cubierta
Story5	F17	274	cubierta
Story5	F27	275	cubierta
Story5	F28	276	cubierta
Story5	F29	277	cubierta
Story5	F85	280	cubierta
Story5	F86	284	cubierta
Story5	F87	289	cubierta
Story5	F88	290	cubierta
Story5	F89	291	cubierta
Story5	F90	292	cubierta
Story4	F59	256	pasillos
Story4	F60	257	pasillos
Story4	F61	258	pasillos
Story4	F2	207	zona escaleras
Story4	F6	211	zona escaleras
Story4	F11	215	zona escaleras
Story4	F12	220	zona escaleras
Story4	F14	229	zona escaleras
Story4	F18	232	zona escaleras
Story4	F19	235	zona escaleras
Story4	F20	239	zona escaleras

Story	Label	UniqueName	Load Set
Story4	F30	260	pasillos
Story4	F70	259	pasillos
Story3	F59	295	pasillos
Story3	F60	294	pasillos
Story3	F61	293	pasillos
Story3	F2	208	zona escaleras
Story3	F6	212	zona escaleras
Story3	F11	216	zona escaleras
Story3	F12	221	zona escaleras
Story3	F14	230	zona escaleras
Story3	F18	233	zona escaleras
Story3	F19	236	zona escaleras
Story3	F20	240	zona escaleras
Story3	F23	241	zona escaleras
Story3	F69	254	pasillos
Story3	F70	255	pasillos
Story2	F2	209	zona escaleras
Story2	F3	1	zona escaleras
Story2	F6	213	zona escaleras
Story2	F11	217	zona escaleras
Story2	F12	222	zona escaleras
Story2	F18	231	zona escaleras
Story2	F21	227	zona escaleras
Story2	F25	234	zona escaleras
Story2	F26	237	zona escaleras
Story1	F5	170	pasillos
Story1	F7	167	pasillos
Story1	F8	168	pasillos
Story1	F9	169	pasillos
Story1	F10	171	pasillos
Story1	F32	193	pasillos
Story1	F33	194	pasillos
Story1	F34	195	pasillos
Story1	F35	196	pasillos
Story1	F36	197	pasillos
Story1	F37	198	pasillos
Story1	F38	199	pasillos
Story1	F39	200	pasillos
Story1	F40	201	pasillos
Story1	F41	172	pasillos
Story1	F42	173	pasillos
Story1	F43	174	pasillos
Story1	F44	175	pasillos
Story1	F45	176	pasillos
Story1	F46	177	pasillos
Story1	F47	178	pasillos
Story1	F48	179	pasillos
Story1	F49	180	pasillos
Story1	F50	181	pasillos
Story1	F51	182	pasillos
Story1	F52	183	pasillos
Story1	F53	184	pasillos
Story1	F54	185	pasillos
Story1	F55	186	pasillos
Story1	F56	187	pasillos
Story1	F57	188	pasillos

Story	Label	UniqueName	Load Set
Story1	F58	189	pasillos
Story1	F59	190	pasillos
Story1	F60	191	pasillos
Story1	F61	192	pasillos
Story1	F3	202	zona escaleras
Story1	F4	206	zona escaleras
Story1	F6	210	zona escaleras
Story1	F11	214	zona escaleras
Story1	F13	218	zona escaleras
Story1	F21	223	zona escaleras
Story1	F22	224	zona escaleras
Story1	F23	225	zona escaleras
Story1	F24	226	zona escaleras

4.5 Functions

4.5.1 Response Spectrum Functions

Table 4.6 - Functions - Response Spectrum - Columbia NSR-10

Name	Period sec	Value	Aa	Av	Ae	Ad	Group of Use	Fa	Fv	Damping Ratio
Espectro	0	0.898438	0.25	0.25	0.11	0.07	3	1.15	1.55	0.05
Espectro	0.1	0.898438								
Espectro	0.2	0.898438								
Espectro	0.3	0.898438								
Espectro	0.4	0.898438								
Espectro	0.5	0.898438								
Espectro	0.6	0.898438								
Espectro	0.7	0.830357								
Espectro	0.8	0.726563								
Espectro	0.9	0.645833								
Espectro	1	0.58125								
Espectro	1.2	0.484375								
Espectro	1.5	0.3875								
Espectro	1.7	0.341912								
Espectro	2	0.290625								
Espectro	2.5	0.2325								
Espectro	3	0.19375								
Espectro	3.5	0.166071								
Espectro	4	0.135141								
Espectro	5	0.08649								
Espectro	8	0.033785								
Espectro	11	0.01787								
Espectro	15	0.00961								

4.5.2 Time History Functions

Table 4.7 - Functions - Time History - User Defined

Name	Time sec	Value
RampTH	0	0
RampTH	1	1
RampTH	4	1
UnifTH	0	1
UnifTH	1	1

4.6 Load Cases

Table 4.8 - Load Case Definitions - Linear Static

Name	Exclude Group	Mass Source	Stiffness Type	Load Type	Load Name	Load SF	Design Type	Notes
Dead	None	MASA SISMICA	P-Delta	Load	Dead	1	Program Determined	
FHEX	None	MASA SISMICA	P-Delta	Load	FHEX	1	Program Determined	
FHEY	None	MASA SISMICA	P-Delta	Load	FHEY	1	Program Determined	
Live	None	MASA SISMICA	P-Delta	Load	Live	1	Program Determined	
SD	None	MASA SISMICA	P-Delta	Load	SD	1	Program Determined	

Table 4.9 - Modal Case Definitions - Eigen (Part 1 of 2)

Name	Exclude Group	Mass Source	Stiffness Type	Max Modes	Min Modes	Freq Shift cyc/sec	Cutoff Freq cyc/sec	Convergence Tol	Auto Shift?
Modal	None	MASA SISMICA	P-Delta	45	1	0	0	0	Yes

Table 4.9 - Modal Case Definitions - Eigen (Part 2 of 2)

Design Type	Notes
Program Determined	

Table 4.10 - Load Case Definitions - Response Spectrum (Part 1 of 2)

Name	Mass Source	Load Name	Function	Trans Accel SF m/sec ²	Coordinate System	Angle deg	Modal Case	Modal Combo Method	Rigid Response?
Dinamico X	Previous (MASA SISMICA)	U1	Espectro	9.81	Global	0	Modal	CQC	No
Dinamico Y	Previous (MASA SISMICA)	U2	Espectro	9.81	Global	0	Modal	CQC	No
SX _{Ajs}	Previous (MASA SISMICA)	U1	Espectro	14.2245	Global	0	Modal	CQC	No
Sy _{Ajs}	Previous (MASA SISMICA)	U2	Espectro	13.8321	Global	0	Modal	CQC	No

Table 4.10 - Load Case Definitions - Response Spectrum (Part 2 of 2)

Directional Combo Type	Eccentricity Ratio	Design Type	Notes
SRSS	0	Program Determined	
SRSS	0	Program Determined	
SRSS	0	Program Determined	
SRSS	0	Program Determined	

4.7 Load Combinations

Table 4.11 - Load Combination Definitions

Name	Type	Is Auto	Load Name	SF	Notes
COM 1	Linear Add	No	Dead	1.4	
COM 1			SD	1.4	
COM 1			Live	1.4	
COM 2	Linear Add	No	Dead	1.2	
COM 2			SD	1.2	
COM 2			Live	1.6	
COM 3+X+Y	Linear Add	No	Dead	1.2	
COM 3+X+Y			SD	1.2	

Name	Type	Is Auto	Load Name	SF	Notes
COM 3+X+Y			Live	1	
COM 3+X+Y			SISMO X /R	1	
COM 3+X+Y			SISMO Y /R	0.3	
COM 3+X-Y	Linear Add	No	Dead	1.2	
COM 3+X-Y			SD	1.2	
COM 3+X-Y			Live	1	
COM 3+X-Y			SISMO X /R	1	
COM 3+X-Y			SISMO Y /R	-0.3	
COM 3+Y+X	Linear Add	No	Dead	1.2	
COM 3+Y+X			SD	1.2	
COM 3+Y+X			Live	1	
COM 3+Y+X			SISMO X /R	0.3	
COM 3+Y+X			SISMO Y /R	1	
COM 3+Y-X	Linear Add	No	Dead	1.2	
COM 3+Y-X			SD	1.2	
COM 3+Y-X			Live	1	
COM 3+Y-X			SISMO X /R	-0.3	
COM 3+Y-X			SISMO Y /R	1	
COM 3-X+Y	Linear Add	No	Dead	1.2	
COM 3-X+Y			SD	1.2	
COM 3-X+Y			Live	1	
COM 3-X+Y			SISMO X /R	-1	
COM 3-X+Y			SISMO Y /R	0.3	
COM 3-X-Y	Linear Add	No	Dead	1.2	
COM 3-X-Y			SD	1.2	
COM 3-X-Y			Live	1	
COM 3-X-Y			SISMO X /R	-1	
COM 3-X-Y			SISMO Y /R	-0.3	
COM 3-Y+X	Linear Add	No	Dead	1.2	
COM 3-Y+X			SD	1.2	
COM 3-Y+X			Live	1	
COM 3-Y+X			SISMO X /R	0.3	
COM 3-Y+X			SISMO Y /R	-1	
COM 3-Y-X	Linear Add	No	Dead	1.2	
COM 3-Y-X			SD	1.2	
COM 3-Y-X			Live	1	
COM 3-Y-X			SISMO X /R	-0.3	
COM 3-Y-X			SISMO Y /R	-1	
COM 4+X+Y	Linear Add	No	Dead	0.9	
COM 4+X+Y			SD	0.9	
COM 4+X+Y			SISMO X /R	1	
COM 4+X+Y			SISMO Y /R	0.3	
COM 4+X-Y	Linear Add	No	Dead	0.9	
COM 4+X-Y			SD	0.9	
COM 4+X-Y			SISMO X /R	1	
COM 4+X-Y			SISMO Y /R	-0.3	
COM 4+Y+X	Linear Add	No	Dead	0.9	
COM 4+Y+X			SD	0.9	
COM 4+Y+X			SISMO X /R	0.3	
COM 4+Y+X			SISMO Y /R	1	
COM 4+Y-X	Linear Add	No	Dead	0.9	
COM 4+Y-X			SD	0.9	
COM 4+Y-X			SISMO X /R	-0.3	
COM 4+Y-X			SISMO Y /R	1	
COM 4-X+Y	Linear Add	No	Dead	0.9	

Name	Type	Is Auto	Load Name	SF	Notes
COM 4-X+Y			SD	0.9	
COM 4-X+Y			SISMO X /R	-1	
COM 4-X+Y			SISMO Y /R	0.3	
COM 4-X-Y	Linear Add	No	Dead	0.9	
COM 4-X-Y			SD	0.9	
COM 4-X-Y			SISMO X /R	-1	
COM 4-X-Y			SISMO Y /R	-0.3	
COM 4-Y+X	Linear Add	No	Dead	0.9	
COM 4-Y+X			SD	0.9	
COM 4-Y+X			SISMO X /R	0.3	
COM 4-Y+X			SISMO Y /R	-1	
COM 4-Y-X	Linear Add	No	Dead	0.9	
COM 4-Y-X			SD	0.9	
COM 4-Y-X			SISMO X /R	-0.3	
COM 4-Y-X			SISMO Y /R	-1	
SISMO X /R	Linear Add	No	Sx _{Ajs}	0.2116	
SISMO Y /R	Linear Add	No	Sy _{Ajs}	0.2116	