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SAP2000 Analysis Report

Model Name: modelo cercha sena.sdb

31 octubre 2024

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1. Model geometry

This section provides model geometry information, including items such as joint coordinates, joint restraints, and element connectivity.

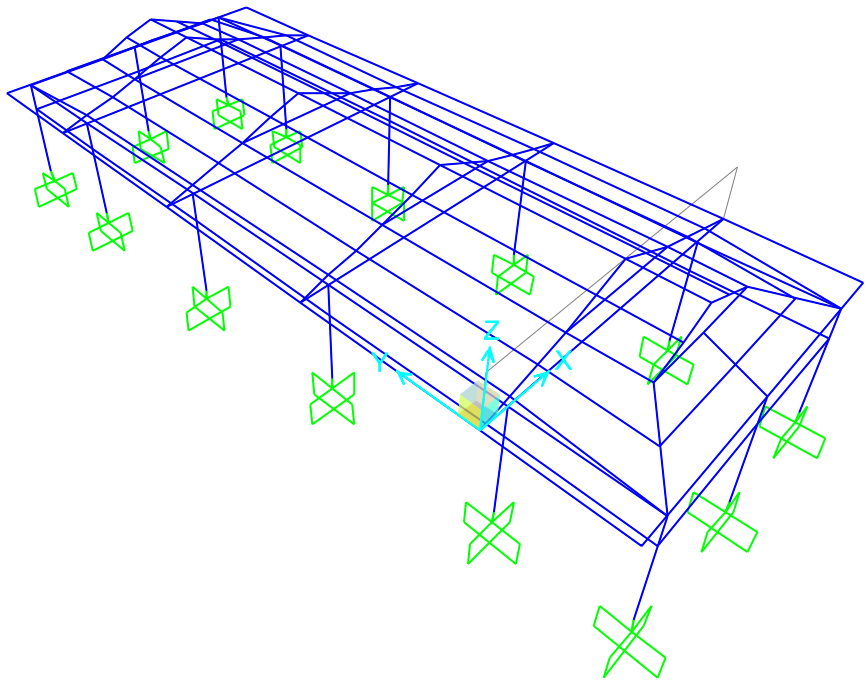


Figure 1: Finite element model

1.1. Joint coordinates

Table 1: Joint Coordinates

Table 1: Joint Coordinates

Joint	CoordSys	CoordType	GlobalX	GlobalY	GlobalZ
			m	m	m
3	GLOBAL	Cartesian	9.86073	0.	0.
4	GLOBAL	Cartesian	0.	0.	0.
5	GLOBAL	Cartesian	6.75265	0.	0.80465
6	GLOBAL	Cartesian	4.71599	0.	1.59277
7	GLOBAL	Cartesian	2.68114	0.	0.80534
19	GLOBAL	Cartesian	9.86073	16.	0.
20	GLOBAL	Cartesian	0.	16.	0.
21	GLOBAL	Cartesian	6.75265	16.	0.80465
22	GLOBAL	Cartesian	4.71599	16.	1.59277
23	GLOBAL	Cartesian	2.68114	16.	0.80534
27	GLOBAL	Cartesian	9.86073	19.55	0.
28	GLOBAL	Cartesian	0.	19.55	0.
35	GLOBAL	Cartesian	9.86073	-3.55	0.
36	GLOBAL	Cartesian	0.	-3.55	0.
40	GLOBAL	Cartesian	0.01412	-3.55	0.00403
41	GLOBAL	Cartesian	0.85	0.	0.
42	GLOBAL	Cartesian	8.51073	0.	0.

Table 1: Joint Coordinates

Joint	CoordSys	CoordType	GlobalX	GlobalY	GlobalZ
			m	m	m
46	GLOBAL	Cartesian	4.81073	0.	0.
51	GLOBAL	Cartesian	0.85	-3.55	0.
53	GLOBAL	Cartesian	8.51073	-3.55	0.
55	GLOBAL	Cartesian	4.81073	-3.55	0.
69	GLOBAL	Cartesian	0.85	19.55	0.
71	GLOBAL	Cartesian	8.51073	19.55	0.
73	GLOBAL	Cartesian	4.81073	19.55	0.
75	GLOBAL	Cartesian	2.73493	-2.	0.81893
76	GLOBAL	Cartesian	6.69706	-2.	0.81893
78	GLOBAL	Cartesian	6.69706	18.	0.81893
79	GLOBAL	Cartesian	2.73493	18.	0.81893
80	GLOBAL	Cartesian	4.71599	18.	1.59277
82	GLOBAL	Cartesian	4.71599	-2.	1.59277
83	GLOBAL	Cartesian	4.71599	18.	0.81893
84	GLOBAL	Cartesian	5.70653	18.	1.20585
85	GLOBAL	Cartesian	5.73432	16.	1.19871
87	GLOBAL	Cartesian	5.73432	0.	1.19871
88	GLOBAL	Cartesian	5.70653	-2.	1.20585
89	GLOBAL	Cartesian	3.69857	0.	1.19906
91	GLOBAL	Cartesian	3.69857	16.	1.19906
92	GLOBAL	Cartesian	3.72546	18.	1.20585
93	GLOBAL	Cartesian	3.72546	-2.	1.20585
94	GLOBAL	Cartesian	8.8247	16.	0.26822
95	GLOBAL	Cartesian	7.78867	16.	0.53643
96	GLOBAL	Cartesian	8.8247	0.	0.26822
97	GLOBAL	Cartesian	7.78867	0.	0.53643
98	GLOBAL	Cartesian	1.79213	0.	0.53824
99	GLOBAL	Cartesian	0.90313	0.	0.27114
104	GLOBAL	Cartesian	1.79213	16.	0.53824
105	GLOBAL	Cartesian	0.90313	16.	0.27114
109	GLOBAL	Cartesian	7.60389	18.775	0.40947
116	GLOBAL	Cartesian	1.79247	18.775	0.40947
122	GLOBAL	Cartesian	4.76336	18.775	0.40947
124	GLOBAL	Cartesian	1.79247	-2.775	0.40947
127	GLOBAL	Cartesian	7.60389	-2.775	0.40947
129	GLOBAL	Cartesian	4.71599	-2.	0.81893
130	GLOBAL	Cartesian	4.76336	-2.775	0.40947
211	GLOBAL	Cartesian	0.01412	10.65	0.00403
214	GLOBAL	Cartesian	9.86073	10.65	0.
216	GLOBAL	Cartesian	6.75265	10.65	0.80465
217	GLOBAL	Cartesian	5.73432	10.65	1.19871
218	GLOBAL	Cartesian	4.71599	10.65	1.59277
219	GLOBAL	Cartesian	3.69857	10.65	1.19906
220	GLOBAL	Cartesian	2.68114	10.65	0.80534
221	GLOBAL	Cartesian	8.8247	10.65	0.26822
222	GLOBAL	Cartesian	7.78867	10.65	0.53643
223	GLOBAL	Cartesian	1.79213	10.65	0.53824
224	GLOBAL	Cartesian	0.90313	10.65	0.27114
225	GLOBAL	Cartesian	0.01412	5.3	0.00403
228	GLOBAL	Cartesian	9.86073	5.3	0.
230	GLOBAL	Cartesian	6.75265	5.3	0.80465
231	GLOBAL	Cartesian	5.73432	5.3	1.19871
232	GLOBAL	Cartesian	4.71599	5.3	1.59277
233	GLOBAL	Cartesian	3.69857	5.3	1.19906

Table 1: Joint Coordinates

Joint	CoordSys	CoordType	GlobalX	GlobalY	GlobalZ
			m	m	m
234	GLOBAL	Cartesian	2.68114	5.3	0.80534
235	GLOBAL	Cartesian	8.8247	5.3	0.26822
236	GLOBAL	Cartesian	7.78867	5.3	0.53643
237	GLOBAL	Cartesian	1.79213	5.3	0.53824
238	GLOBAL	Cartesian	0.90313	5.3	0.27114
251	GLOBAL	Cartesian	8.51073	5.3	0.
256	GLOBAL	Cartesian	8.51073	10.65	0.
258	GLOBAL	Cartesian	0.86412	10.65	0.00403
275	GLOBAL	Cartesian	0.85	19.55	-3.4
276	GLOBAL	Cartesian	8.51073	19.55	-3.4
277	GLOBAL	Cartesian	4.81073	19.55	-3.4
278	GLOBAL	Cartesian	0.85	-3.55	-3.4
279	GLOBAL	Cartesian	8.51073	-3.55	-3.4
280	GLOBAL	Cartesian	8.51073	0.	-3.4
282	GLOBAL	Cartesian	0.85	0.	-3.4
284	GLOBAL	Cartesian	4.81073	-3.55	-3.4
285	GLOBAL	Cartesian	0.86412	5.3	0.00403
286	GLOBAL	Cartesian	0.90313	5.3	-3.12886
287	GLOBAL	Cartesian	0.86412	10.65	-3.39597
288	GLOBAL	Cartesian	8.51073	10.65	-3.4
289	GLOBAL	Cartesian	8.51073	16.	0.
290	GLOBAL	Cartesian	8.51073	16.	-3.4
291	GLOBAL	Cartesian	0.85	16.	0.
292	GLOBAL	Cartesian	0.85	16.	-3.4
294	GLOBAL	Cartesian	8.51073	5.3	-3.4
295	GLOBAL	Cartesian	8.51073	-3.55	-0.9
296	GLOBAL	Cartesian	8.51073	0.	-0.9
297	GLOBAL	Cartesian	8.51073	5.3	-0.9
298	GLOBAL	Cartesian	8.51073	10.65	-0.9
299	GLOBAL	Cartesian	8.51073	16.	-0.9
300	GLOBAL	Cartesian	8.51073	19.55	-0.9
301	GLOBAL	Cartesian	0.85	-3.55	-0.9
302	GLOBAL	Cartesian	0.85	0.	-0.9
303	GLOBAL	Cartesian	0.86412	5.3	-0.89597
304	GLOBAL	Cartesian	0.86412	10.65	-0.89597
305	GLOBAL	Cartesian	0.85	16.	-0.9
306	GLOBAL	Cartesian	0.85	19.55	-0.9
307	GLOBAL	Cartesian	4.81073	-3.55	-0.9
308	GLOBAL	Cartesian	4.81073	19.55	-0.9

1.2. Joint restraints

Table 2: Joint Restraint Assignments

Table 2: Joint Restraint Assignments

Joint	U1	U2	U3	R1	R2	R3
275	Yes	Yes	Yes	Yes	Yes	Yes
276	Yes	Yes	Yes	Yes	Yes	Yes
277	Yes	Yes	Yes	Yes	Yes	Yes
278	Yes	Yes	Yes	Yes	Yes	Yes

Table 2: Joint Restraint Assignments

Joint	U1	U2	U3	R1	R2	R3
279	Yes	Yes	Yes	Yes	Yes	Yes
280	Yes	Yes	Yes	Yes	Yes	Yes
282	Yes	Yes	Yes	Yes	Yes	Yes
284	Yes	Yes	Yes	Yes	Yes	Yes
286	Yes	Yes	Yes	Yes	Yes	Yes
287	Yes	Yes	Yes	Yes	Yes	Yes
288	Yes	Yes	Yes	Yes	Yes	Yes
290	Yes	Yes	Yes	Yes	Yes	Yes
292	Yes	Yes	Yes	Yes	Yes	Yes
294	Yes	Yes	Yes	Yes	Yes	Yes

1.3. Element connectivity

Table 3: Connectivity - Frame

Table 3: Connectivity - Frame

Frame	JointI	JointJ	Length m
23	27	28	9.86073
30	35	36	9.86073
35	40	36	0.01468
81	80	22	2.
85	78	83	1.98106
86	83	79	1.98106
89	78	84	1.06342
90	84	80	1.06342
91	21	85	1.09191
92	85	22	1.09191
95	5	6	2.18383
97	82	88	1.06342
98	88	76	1.06342
103	6	7	2.1819
107	22	91	1.09095
108	91	23	1.09095
109	80	92	1.06342
110	92	79	1.06342
111	75	93	1.06342
112	93	82	1.06342
125	19	94	1.07018
126	94	95	1.07018
127	95	21	1.07018
128	3	5	3.21055
131	7	4	2.79948
140	23	104	0.92827
141	104	105	0.92827
157	71	78	2.52241
172	79	69	2.57412
180	83	122	0.8778
181	122	73	0.8778
182	109	122	2.84053
183	122	116	2.9709

Table 3: Connectivity - Frame

Frame	JointI	JointJ	Length
			m
186	51	75	2.57412
190	76	53	2.52241
196	75	129	1.98106
197	129	76	1.98106
199	129	130	0.8778
200	130	55	0.8778
201	124	130	2.9709
202	130	127	2.84053
313	3	4	9.86073
348	216	217	1.09191
349	217	218	1.09191
350	218	219	1.09095
351	219	220	1.09095
352	214	221	1.07018
353	221	222	1.07018
354	222	216	1.07018
355	220	223	0.92827
356	223	224	0.92827
357	224	211	0.92827
360	230	231	1.09191
361	231	232	1.09191
362	232	233	1.09095
363	233	234	1.09095
364	228	235	1.07018
365	235	236	1.07018
366	236	230	1.07018
367	234	237	0.92827
368	237	238	0.92827
369	238	225	0.92827
406	19	27	3.55
407	94	71	3.57394
408	95	109	2.78404
409	85	84	2.00021
410	91	92	2.00019
411	104	116	2.77799
413	4	36	3.55
415	98	124	2.77799
416	89	93	2.00019
421	7	5	4.07151
422	234	230	4.07151
423	220	216	4.07151
424	23	21	4.07151
425	79	23	2.00077
426	21	78	2.00082
430	7	75	2.00077
431	76	5	2.00082
445	105	69	3.56074
446	35	3	3.55
448	127	97	2.78404
449	96	53	3.57394
450	87	88	2.00021
451	82	6	2.
459	3	228	5.3
460	96	235	5.3

Table 3: Connectivity - Frame

Frame	JointI	JointJ	Length
			m
461	97	236	5.3
462	87	231	5.3
465	99	51	3.56074
468	228	214	5.35
469	235	221	5.35
470	236	222	5.35
471	225	211	5.35
472	238	224	5.35
473	237	223	5.35
474	5	230	5.3
475	230	216	5.35
478	234	220	5.35
480	232	218	5.35
483	231	217	5.35
484	233	219	5.35
493	214	211	9.84661
495	19	20	9.86073
496	28	20	3.55
509	275	69	3.4
510	276	71	3.4
511	277	73	3.4
512	53	279	3.4
513	51	278	3.4
515	55	284	3.4
517	225	228	9.84661
518	41	282	3.4
519	42	280	3.4
521	285	286	3.13314
522	258	287	3.4
523	256	288	3.4
524	289	290	3.4
525	291	292	3.4
526	214	19	5.35
529	216	21	5.35
532	218	22	5.35
535	220	23	5.35
538	219	91	5.35
541	217	85	5.35
544	211	20	5.35002
547	221	94	5.35
550	222	95	5.35
553	223	104	5.35
556	105	224	5.35
557	105	20	0.94295
558	51	41	3.55
559	41	285	5.30002
560	285	258	5.35
561	258	291	5.35002
562	291	69	3.55
563	251	294	3.4
564	53	42	3.55
565	42	251	5.3
566	251	256	5.35
567	256	289	5.35

Table 3: Connectivity - Frame

Frame	JointI	JointJ	Length m
568	289	71	3.55
569	295	296	3.55
570	296	297	5.3
571	297	298	5.35
572	298	299	5.35
573	299	300	3.55
574	301	302	3.55
575	302	303	5.30002
576	303	304	5.35
577	304	305	5.35002
578	305	306	3.55
581	301	307	3.96073
582	307	295	3.7
585	300	308	3.7
586	308	306	3.96073
587	225	4	5.30002
590	89	233	5.3
593	98	237	5.3
596	238	99	5.3
599	7	234	5.3
610	6	232	5.3

Table 4: Frame Section Assignments

Table 4: Frame Section Assignments

Frame	AnalSect	DesignSect	MatProp
23	250x250x8.00MM-1	250x250x8.00MM-1	Default
30	250x250x8.00MM-1	250x250x8.00MM-1	Default
35	W18X35	W18X35	Default
81	200x200x5.00MM	200x200x5.00MM	Default
85	200x200x5.00MM	200x200x5.00MM	Default
86	200x200x5.00MM	200x200x5.00MM	Default
89	200x200x5.00MM	200x200x5.00MM	Default
90	200x200x5.00MM	200x200x5.00MM	Default
91	200x200x5.00MM	200x200x5.00MM	Default
92	200x200x5.00MM	200x200x5.00MM	Default
95	200x200x5.00MM	200x200x5.00MM	Default
97	200x200x5.00MM	200x200x5.00MM	Default
98	200x200x5.00MM	200x200x5.00MM	Default
103	200x200x5.00MM	200x200x5.00MM	Default

Table 4: Frame Section Assignments

Frame	AnalSect	DesignSect	MatProp
107	200x200x5.00MM	200x200x5.00MM	Default
108	200x200x5.00MM	200x200x5.00MM	Default
109	200x200x5.00MM	200x200x5.00MM	Default
110	200x200x5.00MM	200x200x5.00MM	Default
111	200x200x5.00MM	200x200x5.00MM	Default
112	200x200x5.00MM	200x200x5.00MM	Default
125	200x200x5.00MM	200x200x5.00MM	Default
126	200x200x5.00MM	200x200x5.00MM	Default
127	200x200x5.00MM	200x200x5.00MM	Default
128	200x200x5.00MM	200x200x5.00MM	Default
131	200x200x5.00MM	200x200x5.00MM	Default
140	200x200x5.00MM	200x200x5.00MM	Default
141	200x200x5.00MM	200x200x5.00MM	Default
157	200x200x5.00MM	200x200x5.00MM	Default
172	200x200x5.00MM	200x200x5.00MM	Default
180	200x200x5.00MM	200x200x5.00MM	Default
181	200x200x5.00MM	200x200x5.00MM	Default
182	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
183	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
186	200x200x5.00MM	200x200x5.00MM	Default
190	200x200x5.00MM	200x200x5.00MM	Default
196	200x200x5.00MM	200x200x5.00MM	Default
197	200x200x5.00MM	200x200x5.00MM	Default
199	200x200x5.00MM	200x200x5.00MM	Default
200	200x200x5.00MM	200x200x5.00MM	Default
201	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
202	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
313	250x250x8.00MM-1	250x250x8.00MM-1	Default
348	200x200x5.00MM	200x200x5.00MM	Default
349	200x200x5.00MM	200x200x5.00MM	Default

Table 4: Frame Section Assignments

Frame	AnalSect	DesignSect	MatProp
350	200x200x5.00MM	200x200x5.00MM	Default
351	200x200x5.00MM	200x200x5.00MM	Default
352	200x200x5.00MM	200x200x5.00MM	Default
353	200x200x5.00MM	200x200x5.00MM	Default
354	200x200x5.00MM	200x200x5.00MM	Default
355	200x200x5.00MM	200x200x5.00MM	Default
356	200x200x5.00MM	200x200x5.00MM	Default
357	200x200x5.00MM	200x200x5.00MM	Default
360	200x200x5.00MM	200x200x5.00MM	Default
361	200x200x5.00MM	200x200x5.00MM	Default
362	200x200x5.00MM	200x200x5.00MM	Default
363	200x200x5.00MM	200x200x5.00MM	Default
364	250x250x8.00MM-1	250x250x8.00MM-1	Default
365	200x200x5.00MM	200x200x5.00MM	Default
366	200x200x5.00MM	200x200x5.00MM	Default
367	200x200x5.00MM	200x200x5.00MM	Default
368	200x200x5.00MM	200x200x5.00MM	Default
369	200x200x5.00MM	200x200x5.00MM	Default
406	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
407	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
408	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
409	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
410	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
411	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
413	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
415	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
416	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
421	200x200x5.00MM	200x200x5.00MM	Default
422	200x200x5.00MM	200x200x5.00MM	Default
423	200x200x5.00MM	200x200x5.00MM	Default

Table 4: Frame Section Assignments

Frame	AnalSect	DesignSect	MatProp
424	200x200x5.00MM	200x200x5.00MM	Default
425	200x200x5.00MM	200x200x5.00MM	Default
426	200x200x5.00MM	200x200x5.00MM	Default
430	200x200x5.00MM	200x200x5.00MM	Default
431	200x200x5.00MM	200x200x5.00MM	Default
445	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
446	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
448	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
449	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
450	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
451	200x200x5.00MM	200x200x5.00MM	Default
459	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
460	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
461	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
462	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
465	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
468	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
469	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
470	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
471	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
472	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
473	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
474	200x200x5.00MM	200x200x5.00MM	Default
475	200x200x5.00MM	200x200x5.00MM	Default
478	200x200x5.00MM	200x200x5.00MM	Default
480	200x200x5.00MM	200x200x5.00MM	Default
483	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
484	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
493	250x250x8.00MM-1	250x250x8.00MM-1	Default
495	250x250x8.00MM-1	250x250x8.00MM-1	Default

Table 4: Frame Section Assignments

Frame	AnalSect	DesignSect	MatProp
496	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
509	COL 30X30	COL 30X30	Default
510	COL 30X30	COL 30X30	Default
511	COL 30X30	COL 30X30	Default
512	COL 30X30	COL 30X30	Default
513	COL 30X30	COL 30X30	Default
515	COL 30X30	COL 30X30	Default
517	250x250x8.00MM-1	250x250x8.00MM-1	Default
518	COL 30X30	COL 30X30	Default
519	COL 30X30	COL 30X30	Default
521	COL 30X30	COL 30X30	Default
522	COL 30X30	COL 30X30	Default
523	COL 30X30	COL 30X30	Default
524	COL 30X30	COL 30X30	Default
525	COL 30X30	COL 30X30	Default
526	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
529	200x200x5.00MM	200x200x5.00MM	Default
532	200x200x5.00MM	200x200x5.00MM	Default
535	200x200x5.00MM	200x200x5.00MM	Default
538	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
541	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
544	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
547	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
550	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
553	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
556	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
557	200x200x5.00MM	200x200x5.00MM	Default
558	2PAG220X80X20X3.00MM-1	2PAG220X80X20X3.00MM-1	Default
559	2PAG220X80X20X3.00MM-1	2PAG220X80X20X3.00MM-1	Default
560	2PAG220X80X20X3.00MM-1	2PAG220X80X20X3.00MM-1	Default
561	2PAG220X80X20X3.00MM-1	2PAG220X80X20X3.00MM-1	Default
562	2PAG220X80X20X3.00MM-1	2PAG220X80X20X3.00MM-1	Default
563	COL 30X30	COL 30X30	Default
564	2PAG220X80X20X3.00MM-1	2PAG220X80X20X3.00MM-1	Default
565	2PAG220X80X20X3.00MM-1	2PAG220X80X20X3.00MM-1	Default
566	2PAG220X80X20X3.00MM-1	2PAG220X80X20X3.00MM-1	Default

Table 4: Frame Section Assignments

Frame	AnalSect	DesignSect	MatProp
567	2PAG220X80X20X3.00MM-1	2PAG220X80X20X3.00MM-1	Default
568	2PAG220X80X20X3.00MM-1	2PAG220X80X20X3.00MM-1	Default
569	2PAG220X80X20X3.00MM-1	2PAG220X80X20X3.00MM-1	Default
570	2PAG220X80X20X3.00MM-1	2PAG220X80X20X3.00MM-1	Default
571	2PAG220X80X20X3.00MM-1	2PAG220X80X20X3.00MM-1	Default
572	2PAG220X80X20X3.00MM-1	2PAG220X80X20X3.00MM-1	Default
573	2PAG220X80X20X3.00MM-1	2PAG220X80X20X3.00MM-1	Default
574	2PAG220X80X20X3.00MM-1	2PAG220X80X20X3.00MM-1	Default
575	2PAG220X80X20X3.00MM-1	2PAG220X80X20X3.00MM-1	Default
576	2PAG220X80X20X3.00MM-1	2PAG220X80X20X3.00MM-1	Default
577	2PAG220X80X20X3.00MM-1	2PAG220X80X20X3.00MM-1	Default
578	2PAG220X80X20X3.00MM-1	2PAG220X80X20X3.00MM-1	Default
581	2PAG220X80X20X3.00MM-1	2PAG220X80X20X3.00MM-1	Default
582	2PAG220X80X20X3.00MM-1	2PAG220X80X20X3.00MM-1	Default
585	2PAG220X80X20X3.00MM-1	2PAG220X80X20X3.00MM-1	Default
586	2PAG220X80X20X3.00MM-1	2PAG220X80X20X3.00MM-1	Default
587	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
590	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
593	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
596	2PAG150X60X17X1.50MM	2PAG150X60X17X1.50MM	Default
599	200x200x5.00MM	200x200x5.00MM	Default
610	200x200x5.00MM	200x200x5.00MM	Default

Table 5: Frame Release Assignments 1 - General, Part 1 of 2

Table 5: Frame Release Assignments 1 - General, Part 1 of 2

Frame	PI	V2I	V3I	TI	M2I	M3I
85	No	No	No	No	Yes	Yes
86	No	No	No	No	Yes	Yes

Table 5: Frame Release Assignments 1 - General, Part 2 of 2

Table 5: Frame Release Assignments 1 - General, Part 2 of 2

Frame	PJ	V2J	V3J	TJ	M2J	M3J
85	No	No	No	No	Yes	Yes
86	No	No	No	No	Yes	Yes

2. Material properties

This section provides material property information for materials used in the model.

Table 6: Material Properties 02 - Basic Mechanical Properties

Table 6: Material Properties 02 - Basic Mechanical Properties

Material	UnitWeight	UnitMass	E1	G12	U12	A1
	Tonf/m3	Tonf-s2/m4	Tonf/m2	Tonf/m2		1/C
4000Psi	2.4028E+00	2.4501E-01	2534563.54	1056068.14	0.2	9.9000E-06
A416Gr270	7.8490E+00	8.0038E-01	20037484.34			1.1700E-05
A500GrB46	7.8490E+00	8.0038E-01	20389019.16	7841930.45	0.3	1.1700E-05
A572Gr50	7.8490E+00	8.0038E-01	20389019.16	7841930.45	0.3	1.1700E-05
A615Gr60	7.8490E+00	8.0038E-01	20389019.16			1.1700E-05
A653SQGr50	7.8490E+00	8.0038E-01	20740553.97	7977136.14	0.3	1.1700E-05
A992Fy50	7.8490E+00	8.0038E-01	20389019.16	7841930.45	0.3	1.1700E-05

Table 7: Material Properties 03a - Steel Data

Table 7: Material Properties 03a - Steel Data

Material	Fy	Fu	FinalSlope	CoupModType
	Tonf/m2	Tonf/m2		
A500GrB46	32341.2	40778.04	-0.1	Von Mises
A572Gr50	35153.48	45699.53	-0.1	Von Mises
A992Fy50	35153.48	45699.53	-0.1	Von Mises

Table 8: Material Properties 03b - Concrete Data

Table 8: Material Properties 03b - Concrete Data

Material	Fc	eFc	FinalSlope	CoupModType
	Tonf/m2	Tonf/m2		
4000Psi	2812.28	2812.28	-0.1	Modified Darwin-Peck nold

Table 9: Material Properties 03d - Cold Formed Data

Table 9: Material Properties 03d - Cold Formed Data

Material	Fy	Fu	CoupModType
	Tonf/m2	Tonf/m2	
A653SQGr50	35153.48	45699.53	Von Mises

Table 10: Material Properties 03e - Rebar Data

Table 10: Material Properties 03e - Rebar Data

Material	Fy	Fu	FinalSlope	CoupModType
	Tonf/m2	Tonf/m2		
A615Gr60	42184.18	63276.27	-0.1	Von Mises

Table 11: Material Properties 03f - Tendon Data

Table 11: Material Properties 03f - Tendon Data

Material	Fy	Fu	FinalSlope	CoupModType
	Tonf/m2	Tonf/m2		
A416Gr270	172322.37	189828.8	-0.1	Von Mises

3. Section properties

This section provides section property information for objects used in the model.

3.1. Frames

Table 12: Frame Section Properties 01 - General, Part 1 of 7

Table 12: Frame Section Properties 01 - General, Part 1 of 7

SectionName	Material	Shape	t3	t2	tf	FilletRadius	tw
			m	m	m	m	m
200x200x5.00MM	A500GrB46	Box/Tube	0.2	0.2	0.005	0.	0.005
250x250x8.00MM-1	A500GrB46	Box/Tube	0.25	0.25	0.008	0.	0.008
2PAG150X60X17X1.50MM	A572Gr50	Box/Tube	0.16	0.12	0.002	0.	0.002
2PAG220X80X20X3.00MM-1	A572Gr50	Box/Tube	0.22	0.16	0.003	0.	0.003
2X2X1.50	A500GrB46	Box/Tube	0.025	0.025	0.0015	0.	0.0015
2X2X2.0	A500GrB46	Box/Tube	0.025	0.025	0.0025	0.	0.0025
3X3X3.00	A500GrB46	Box/Tube	0.075	0.075	0.003	0.	0.003
4X4X2.50	A500GrB46	Box/Tube	0.1	0.1	0.0025	0.	0.0025
51/3X51/3X4.00	A500GrB46	Box/Tube	0.135	0.135	0.004	0.	0.004
6X6X4.00	A500GrB46	Box/Tube	0.15	0.15	0.004	0.	0.004
AUTO1		Auto Select					

Table 12: Frame Section Properties 01 - General, Part 1 of 7

SectionName	Material	Shape	t3	t2	tf	FilletRadius	tw
			m	m	m	m	m
COL 30X30	4000Psi	Rectangular	0.3	0.3			
CORRE	A572Gr50	Cold Formed C	0.16	0.06			0.002
corre22	A572Gr50	Channel	0.16	0.06	0.002	0.	0.002
FSEC1	A992Fy50	Channel	1.6	0.6	0.0002	0.	0.00635
W18X35	A992Fy50	I/Wide Flange	0.44958	0.1524	0.010795	0.010211	0.00762

Table 12: Frame Section Properties 01 - General, Part 2 of 7

Table 12: Frame Section Properties 01 - General, Part 2 of 7

SectionName	t2b	tfb
	m	m
200x200x5.00MM		
250x250x8.00MM-1		
2PAG150X60X17X1.50MM		
2PAG220X80X20X3.00MM-1		
2X2X1.50		
2X2X2.0		
3X3X3.00		
4X4X2.50		
51/3X51/3X4.00		
6X6X4.00		
AUTO1		
COL 30X30		
CORRE		
corre22		
FSEC1		
W18X35	0.1524	0.010795

Table 12: Frame Section Properties 01 - General, Part 3 of 7

Table 12: Frame Section Properties 01 - General, Part 3 of 7

SectionName	Area	TorsConst	I33	S33Top	I22	S33Bot	I23	AS2
	m2	m4	m4	m3	m4	m3	m4	m2
200x200x5.00MM	0.0039	0.000037	0.000025	0.000247	0.000025	0.000247	0.	0.002
250x250x8.00MM-1	0.007744	0.000113	0.000076	0.000605	0.000076	0.000605	0.	0.004
2PAG150X60X17X1.50MM	0.001104	5.038E-06	4.261E-06	0.000053	2.748E-06	0.000053	0.	0.00064
2PAG220X80X20X3.00MM-1	0.002244	0.000019	0.000016	0.000147	9.961E-06	0.000147	0.	0.00132
2X2X1.50	0.000141	1.947E-08	1.303E-08	1.042E-06	1.303E-08	1.042E-06	0.	0.000075
2X2X2.0	0.000225	2.848E-08	1.922E-08	1.538E-06	1.922E-08	1.538E-06	0.	0.000125
3X3X3.00	0.000864	1.120E-06	7.478E-07	0.00002	7.478E-07	0.00002	0.	0.00045
4X4X2.50	0.000975	2.317E-06	1.546E-06	0.000031	1.546E-06	0.000031	0.	0.0005
51/3X51/3X4.00	0.002096	8.992E-06	6.000E-06	0.000089	6.000E-06	0.000089	0.	0.00108
6X6X4.00	0.002336	0.000012	8.305E-06	0.000111	8.305E-06	0.000111	0.	0.0012
AUTO1								
COL 30X30	0.09	0.001141	0.000675	0.0045	0.000675	0.0045	0.	0.075

Table 12: Frame Section Properties 01 - General, Part 3 of 7

SectionName	Area	TorsConst	I33	S33Top	I22	S33Bot	I23	AS2
	m2	m4	m4	m3	m4	m3	m4	m2
CORRE	0.00057	7.594E-10	2.194E-06	0.000027	2.402E-07	0.000027	0.	0.000287
corre22	0.000552	7.259E-10	2.131E-06	0.000027	1.862E-07	0.000027	0.	0.00032
FSEC1	0.010397	1.362E-07	0.002319	0.002899	0.000028	0.002899	0.	0.01016
W18X35	0.006645	2.106E-07	0.000212	0.000944	6.368E-06	0.000944	0.	0.003426

Table 12: Frame Section Properties 01 - General, Part 4 of 7

Table 12: Frame Section Properties 01 - General, Part 4 of 7

SectionName	S22Left	S22Right	AS3
	m3	m3	m2
200x200x5.00MM	0.000247	0.000247	0.002
250x250x8.00MM-1	0.000605	0.000605	0.004
2PAG150X60X17X1.50MM	0.000046	0.000046	0.00048
2PAG220X80X20X3.00MM-1	0.000125	0.000125	0.00096
2X2X1.50	1.042E-06	1.042E-06	0.000075
2X2X2.0	1.538E-06	1.538E-06	0.000125
3X3X3.00	0.00002	0.00002	0.00045
4X4X2.50	0.000031	0.000031	0.0005
51/3X51/3X4.00	0.000089	0.000089	0.00108
6X6X4.00	0.000111	0.000111	0.0012
AUTO1			
COL 30X30	0.0045	0.0045	0.075
CORRE	0.000015	5.497E-06	0.000173
corre22	0.000014	4.013E-06	0.00024
FSEC1	0.002782	0.000047	0.00024
W18X35	0.000084	0.000084	0.002742

Table 12: Frame Section Properties 01 - General, Part 5 of 7

Table 12: Frame Section Properties 01 - General, Part 5 of 7

SectionName	Z33	Z22	CGOffset3	R33	CGOffset2	R22
	m3	m3	m	m	m	m
200x200x5.00MM	0.000285	0.000285	0.	0.079635	0.	0.079635
250x250x8.00MM-1	0.000703	0.000703	0.	0.09885	0.	0.09885
2PAG150X60X17X1.50MM	0.000062	0.000051	0.	0.062128	0.	0.049894
2PAG220X80X20X3.00MM-1	0.000173	0.000139	0.	0.084972	0.	0.066626
2X2X1.50	1.244E-06	1.244E-06	0.	0.009613	0.	0.009613
2X2X2.0	1.906E-06	1.906E-06	0.	0.009242	0.	0.009242
3X3X3.00	0.000023	0.000023	0.	0.029419	0.	0.029419
4X4X2.50	0.000036	0.000036	0.	0.039817	0.	0.039817
51/3X51/3X4.00	0.000103	0.000103	0.	0.053505	0.	0.053505
6X6X4.00	0.000128	0.000128	0.	0.059627	0.	0.059627
AUTO1						
COL 30X30	0.00675	0.00675	0.	0.086603	0.	0.086603
CORRE	0.000027	5.497E-06	0.013707	0.062071	0.	0.020537

Table 12: Frame Section Properties 01 - General, Part 5 of 7

SectionName	Z33	Z22	CGOffset3	R33	CGOffset2	R22
	m3	m3	m	m	m	m
corre22	0.000031	7.036E-06	0.	0.062128	0.016391	0.018366
FSEC1	0.004254	0.000087	0.	0.472307	0.289974	0.051793
W18X35	0.00109	0.000132	0.	0.178731	0.	0.030957

Table 12: Frame Section Properties 01 - General, Part 6 of 7

Table 12: Frame Section Properties 01 - General, Part 6 of 7

SectionName	EccV2	EccV3	Cw	IncludeSCAn	AMod	A2Mod	A3Mod	JMod
	m	m	m6					
200x200x5.00MM	0.	0.	0.		1.	1.	1.	1.
250x250x8.00MM-1	0.	0.	0.		1.	1.	1.	1.
2PAG150X60X17X1.50MM	0.	0.	0.		1.	1.	1.	1.
2PAG220X80X20X3.00MM-1	0.	0.	0.		1.	1.	1.	1.
2X2X1.50	0.	0.	0.		1.	1.	1.	1.
2X2X2.0	0.	0.	0.		1.	1.	1.	1.
3X3X3.00	0.	0.	0.		1.	1.	1.	1.
4X4X2.50	0.	0.	0.		1.	1.	1.	1.
51/3X51/3X4.00	0.	0.	0.		1.	1.	1.	1.
6X6X4.00	0.	0.	0.		1.	1.	1.	1.
AUTO1								
COL 30X30	0.	0.	0.		1.	1.	1.	1.
CORRE	0.040251	0.	1.291E-09	Yes	1.	1.	1.	1.
corre22	0.049396	0.	8.230E-10	Yes	1.	1.	1.	1.
FSEC1	0.316478	0.	0.000017	Yes	1.	1.	1.	1.
W18X35	0.	0.	0.		1.	1.	1.	1.

Table 12: Frame Section Properties 01 - General, Part 7 of 7

Table 12: Frame Section Properties 01 - General, Part 7 of 7

SectionName	I2Mod	I3Mod	MMod	WMod
200x200x5.00MM	1.	1.	1.	1.
250x250x8.00MM-1	1.	1.	1.	1.
2PAG150X60X17X1.50MM	1.	1.	1.	1.
2PAG220X80X20X3.00MM-1	1.	1.	1.	1.
2X2X1.50	1.	1.	1.	1.
2X2X2.0	1.	1.	1.	1.
3X3X3.00	1.	1.	1.	1.
4X4X2.50	1.	1.	1.	1.
51/3X51/3X4.00	1.	1.	1.	1.
6X6X4.00	1.	1.	1.	1.
AUTO1				
COL 30X30	1.	1.	1.	1.
CORRE	1.	1.	1.	1.
corre22	1.	1.	1.	1.

Table 12: Frame Section Properties 01 - General, Part 7 of 7

SectionName	I2Mod	I3Mod	MMod	WMod
FSEC1	1.	1.	1.	1.
W18X35	1.	1.	1.	1.

Table 13: Frame Section Properties 02 - Concrete Column, Part 1 of 2

Table 13: Frame Section Properties 02 - Concrete Column, Part 1 of 2

SectionName	RebarMatL	RebarMatC	ReinfConfig	LatReinf	Cover	NumBars3Dir	NumBars2Dir
					m		
COL 30X30	A615Gr60	A615Gr60	Rectangular	Ties	0.05	3	3

Table 13: Frame Section Properties 02 - Concrete Column, Part 2 of 2

Table 13: Frame Section Properties 02 - Concrete Column, Part 2 of 2

SectionName	BarSizeL	BarSizeC	SpacingC	NumCBars2	NumCBars3
			m		
COL 30X30	#5	#3	0.15	3	3

Table 14: Frame Property Modifiers, Part 1 of 2

Table 14: Frame Property Modifiers, Part 1 of 2

Frame	AMod	AS2Mod	AS3Mod	JMod	I22Mod	I33Mod	MassMod	WeightMod
23	1.	1.	1.	1.	1.	1.	1.	1.
30	1.	1.	1.	1.	1.	1.	1.	1.
35	1.	1.	1.	1.	1.	1.	1.	1.
81	1.	1.	1.	1.	1.	1.	1.	1.
85	1.	1.	1.	1.	1.	1.	1.	1.
86	1.	1.	1.	1.	1.	1.	1.	1.
89	1.	1.	1.	1.	1.	1.	1.	1.
90	1.	1.	1.	1.	1.	1.	1.	1.
91	1.	1.	1.	1.	1.	1.	1.	1.
92	1.	1.	1.	1.	1.	1.	1.	1.
95	1.	1.	1.	1.	1.	1.	1.	1.
97	1.	1.	1.	1.	1.	1.	1.	1.
98	1.	1.	1.	1.	1.	1.	1.	1.
103	1.	1.	1.	1.	1.	1.	1.	1.
107	1.	1.	1.	1.	1.	1.	1.	1.
108	1.	1.	1.	1.	1.	1.	1.	1.
109	1.	1.	1.	1.	1.	1.	1.	1.
110	1.	1.	1.	1.	1.	1.	1.	1.
111	1.	1.	1.	1.	1.	1.	1.	1.
112	1.	1.	1.	1.	1.	1.	1.	1.
125	1.	1.	1.	1.	1.	1.	1.	1.
126	1.	1.	1.	1.	1.	1.	1.	1.
127	1.	1.	1.	1.	1.	1.	1.	1.
128	1.	1.	1.	1.	1.	1.	1.	1.
131	1.	1.	1.	1.	1.	1.	1.	1.
140	1.	1.	1.	1.	1.	1.	1.	1.
141	1.	1.	1.	1.	1.	1.	1.	1.

Table 14: Frame Property Modifiers, Part 1 of 2

Frame	AMod	AS2Mod	AS3Mod	JMod	I22Mod	I33Mod	MassMod	WeightMod
157	1.	1.	1.	1.	1.	1.	1.	1.
172	1.	1.	1.	1.	1.	1.	1.	1.
180	1.	1.	1.	1.	1.	1.	1.	1.
181	1.	1.	1.	1.	1.	1.	1.	1.
182	1.	1.	1.	1.	1.	1.	1.	1.
183	1.	1.	1.	1.	1.	1.	1.	1.
186	1.	1.	1.	1.	1.	1.	1.	1.
190	1.	1.	1.	1.	1.	1.	1.	1.
196	1.	1.	1.	1.	1.	1.	1.	1.
197	1.	1.	1.	1.	1.	1.	1.	1.
199	1.	1.	1.	1.	1.	1.	1.	1.
200	1.	1.	1.	1.	1.	1.	1.	1.
201	1.	1.	1.	1.	1.	1.	1.	1.
202	1.	1.	1.	1.	1.	1.	1.	1.
313	1.	1.	1.	1.	1.	1.	1.	1.
348	1.	1.	1.	1.	1.	1.	1.	1.
349	1.	1.	1.	1.	1.	1.	1.	1.
350	1.	1.	1.	1.	1.	1.	1.	1.
351	1.	1.	1.	1.	1.	1.	1.	1.
352	1.	1.	1.	1.	1.	1.	1.	1.
353	1.	1.	1.	1.	1.	1.	1.	1.
354	1.	1.	1.	1.	1.	1.	1.	1.
355	1.	1.	1.	1.	1.	1.	1.	1.
356	1.	1.	1.	1.	1.	1.	1.	1.
357	1.	1.	1.	1.	1.	1.	1.	1.
360	1.	1.	1.	1.	1.	1.	1.	1.
361	1.	1.	1.	1.	1.	1.	1.	1.
362	1.	1.	1.	1.	1.	1.	1.	1.
363	1.	1.	1.	1.	1.	1.	1.	1.
364	1.	1.	1.	1.	1.	1.	1.	1.
365	1.	1.	1.	1.	1.	1.	1.	1.
366	1.	1.	1.	1.	1.	1.	1.	1.
367	1.	1.	1.	1.	1.	1.	1.	1.
368	1.	1.	1.	1.	1.	1.	1.	1.
369	1.	1.	1.	1.	1.	1.	1.	1.
406	1.	1.	1.	1.	1.	1.	1.	1.
407	1.	1.	1.	1.	1.	1.	1.	1.
408	1.	1.	1.	1.	1.	1.	1.	1.
409	1.	1.	1.	1.	1.	1.	1.	1.
410	1.	1.	1.	1.	1.	1.	1.	1.
411	1.	1.	1.	1.	1.	1.	1.	1.
413	1.	1.	1.	1.	1.	1.	1.	1.
415	1.	1.	1.	1.	1.	1.	1.	1.
416	1.	1.	1.	1.	1.	1.	1.	1.
421	1.	1.	1.	1.	1.	1.	1.	1.
422	1.	1.	1.	1.	1.	1.	1.	1.
423	1.	1.	1.	1.	1.	1.	1.	1.
424	1.	1.	1.	1.	1.	1.	1.	1.
425	1.	1.	1.	1.	1.	1.	1.	1.
426	1.	1.	1.	1.	1.	1.	1.	1.
430	1.	1.	1.	1.	1.	1.	1.	1.
431	1.	1.	1.	1.	1.	1.	1.	1.
445	1.	1.	1.	1.	1.	1.	1.	1.
446	1.	1.	1.	1.	1.	1.	1.	1.

Table 14: Frame Property Modifiers, Part 1 of 2

Frame	AMod	AS2Mod	AS3Mod	JMod	I22Mod	I33Mod	MassMod	WeightMod
448	1.	1.	1.	1.	1.	1.	1.	1.
449	1.	1.	1.	1.	1.	1.	1.	1.
450	1.	1.	1.	1.	1.	1.	1.	1.
451	1.	1.	1.	1.	1.	1.	1.	1.
459	1.	1.	1.	1.	1.	1.	1.	1.
460	1.	1.	1.	1.	1.	1.	1.	1.
461	1.	1.	1.	1.	1.	1.	1.	1.
462	1.	1.	1.	1.	1.	1.	1.	1.
465	1.	1.	1.	1.	1.	1.	1.	1.
468	1.	1.	1.	1.	1.	1.	1.	1.
469	1.	1.	1.	1.	1.	1.	1.	1.
470	1.	1.	1.	1.	1.	1.	1.	1.
471	1.	1.	1.	1.	1.	1.	1.	1.
472	1.	1.	1.	1.	1.	1.	1.	1.
473	1.	1.	1.	1.	1.	1.	1.	1.
474	1.	1.	1.	1.	1.	1.	1.	1.
475	1.	1.	1.	1.	1.	1.	1.	1.
478	1.	1.	1.	1.	1.	1.	1.	1.
480	1.	1.	1.	1.	1.	1.	1.	1.
483	1.	1.	1.	1.	1.	1.	1.	1.
484	1.	1.	1.	1.	1.	1.	1.	1.
493	1.	1.	1.	1.	1.	1.	1.	1.
495	1.	1.	1.	1.	1.	1.	1.	1.
496	1.	1.	1.	1.	1.	1.	1.	1.
517	1.	1.	1.	1.	1.	1.	1.	1.
526	1.	1.	1.	1.	1.	1.	1.	1.
529	1.	1.	1.	1.	1.	1.	1.	1.
532	1.	1.	1.	1.	1.	1.	1.	1.
535	1.	1.	1.	1.	1.	1.	1.	1.
538	1.	1.	1.	1.	1.	1.	1.	1.
541	1.	1.	1.	1.	1.	1.	1.	1.
544	1.	1.	1.	1.	1.	1.	1.	1.
547	1.	1.	1.	1.	1.	1.	1.	1.
550	1.	1.	1.	1.	1.	1.	1.	1.
553	1.	1.	1.	1.	1.	1.	1.	1.
556	1.	1.	1.	1.	1.	1.	1.	1.
557	1.	1.	1.	1.	1.	1.	1.	1.
558	1.	1.	1.	1.	1.	1.	1.	1.
559	1.	1.	1.	1.	1.	1.	1.	1.
560	1.	1.	1.	1.	1.	1.	1.	1.
561	1.	1.	1.	1.	1.	1.	1.	1.
562	1.	1.	1.	1.	1.	1.	1.	1.
564	1.	1.	1.	1.	1.	1.	1.	1.
565	1.	1.	1.	1.	1.	1.	1.	1.
566	1.	1.	1.	1.	1.	1.	1.	1.
567	1.	1.	1.	1.	1.	1.	1.	1.
568	1.	1.	1.	1.	1.	1.	1.	1.
569	1.	1.	1.	1.	1.	1.	1.	1.
570	1.	1.	1.	1.	1.	1.	1.	1.
571	1.	1.	1.	1.	1.	1.	1.	1.
572	1.	1.	1.	1.	1.	1.	1.	1.
573	1.	1.	1.	1.	1.	1.	1.	1.
574	1.	1.	1.	1.	1.	1.	1.	1.
575	1.	1.	1.	1.	1.	1.	1.	1.

Table 14: Frame Property Modifiers, Part 1 of 2

Frame	AMod	AS2Mod	AS3Mod	JMod	I22Mod	I33Mod	MassMod	WeightMod
576	1.	1.	1.	1.	1.	1.	1.	1.
577	1.	1.	1.	1.	1.	1.	1.	1.
578	1.	1.	1.	1.	1.	1.	1.	1.
581	1.	1.	1.	1.	1.	1.	1.	1.
582	1.	1.	1.	1.	1.	1.	1.	1.
585	1.	1.	1.	1.	1.	1.	1.	1.
586	1.	1.	1.	1.	1.	1.	1.	1.
587	1.	1.	1.	1.	1.	1.	1.	1.
590	1.	1.	1.	1.	1.	1.	1.	1.
593	1.	1.	1.	1.	1.	1.	1.	1.
596	1.	1.	1.	1.	1.	1.	1.	1.
599	1.	1.	1.	1.	1.	1.	1.	1.
610	1.	1.	1.	1.	1.	1.	1.	1.

Table 14: Frame Property Modifiers, Part 2 of 2

Table 14: Frame Property Modifiers, Part 2 of 2

Frame	EAModifier	EIModifier
23	0.8	0.8
30	0.8	0.8
35	0.8	0.8
81	0.8	0.8
85	0.8	0.8
86	0.8	0.8
89	0.8	0.8
90	0.8	0.8
91	0.8	0.8
92	0.8	0.8
95	0.8	0.8
97	0.8	0.8
98	0.8	0.8
103	0.8	0.8
107	0.8	0.8
108	0.8	0.8
109	0.8	0.8
110	0.8	0.8
111	0.8	0.8
112	0.8	0.8
125	0.8	0.8
126	0.8	0.8
127	0.8	0.8
128	0.8	0.8
131	0.8	0.8
140	0.8	0.8
141	0.8	0.8
157	0.8	0.8
172	0.8	0.8
180	0.8	0.8
181	0.8	0.8
182	0.8	0.8
183	0.8	0.8
186	0.8	0.8

Table 14: Frame Property Modifiers, Part 2 of 2

Frame	EAModifier	EIModifier
190	0.8	0.8
196	0.8	0.8
197	0.8	0.8
199	0.8	0.8
200	0.8	0.8
201	0.8	0.8
202	0.8	0.8
313	0.8	0.8
348	0.8	0.8
349	0.8	0.8
350	0.8	0.8
351	0.8	0.8
352	0.8	0.8
353	0.8	0.8
354	0.8	0.8
355	0.8	0.8
356	0.8	0.8
357	0.8	0.8
360	0.8	0.8
361	0.8	0.8
362	0.8	0.8
363	0.8	0.8
364	0.8	0.8
365	0.8	0.8
366	0.8	0.8
367	0.8	0.8
368	0.8	0.8
369	0.8	0.8
406	0.8	0.8
407	0.8	0.8
408	0.8	0.8
409	0.8	0.8
410	0.8	0.8
411	0.8	0.8
413	0.8	0.8
415	0.8	0.8
416	0.8	0.8
421	0.8	0.8
422	0.8	0.8
423	0.8	0.8
424	0.8	0.8
425	0.8	0.8
426	0.8	0.8
430	0.8	0.8
431	0.8	0.8
445	0.8	0.8
446	0.8	0.8
448	0.8	0.8
449	0.8	0.8
450	0.8	0.8
451	0.8	0.8
459	0.8	0.8
460	0.8	0.8

Table 14: Frame Property Modifiers, Part 2 of 2

Frame	EAModifier	EIModifier
461	0.8	0.8
462	0.8	0.8
465	0.8	0.8
468	0.8	0.8
469	0.8	0.8
470	0.8	0.8
471	0.8	0.8
472	0.8	0.8
473	0.8	0.8
474	0.8	0.8
475	0.8	0.8
478	0.8	0.8
480	0.8	0.8
483	0.8	0.8
484	0.8	0.8
493	0.8	0.8
495	0.8	0.8
496	0.8	0.8
517	0.8	0.8
526	0.8	0.8
529	0.8	0.8
532	0.8	0.8
535	0.8	0.8
538	0.8	0.8
541	0.8	0.8
544	0.8	0.8
547	0.8	0.8
550	0.8	0.8
553	0.8	0.8
556	0.8	0.8
557	0.8	0.8
558	0.8	0.8
559	0.8	0.8
560	0.8	0.8
561	0.8	0.8
562	0.8	0.8
564	0.8	0.8
565	0.8	0.8
566	0.8	0.8
567	0.8	0.8
568	0.8	0.8
569	0.8	0.8
570	0.8	0.8
571	0.8	0.8
572	0.8	0.8
573	0.8	0.8
574	0.8	0.8
575	0.8	0.8
576	0.8	0.8
577	0.8	0.8
578	0.8	0.8
581	0.8	0.8
582	0.8	0.8

Table 14: Frame Property Modifiers, Part 2 of 2

Frame	EAModifier	EIModifier
585	0.8	0.8
586	0.8	0.8
587	0.8	0.8
590	0.8	0.8
593	0.8	0.8
596	0.8	0.8
599	0.8	0.8
610	0.8	0.8

3.2. Cables

Table 15: Cable Section Definitions, Part 1 of 2

Table 15: Cable Section Definitions, Part 1 of 2

CableSect	Material	Diameter	Area	TorsConst	I	AS
		m	m2	m4	m4	m2
5/8"	A416Gr270	0.01587	0.000198	6.227E-09	3.114E-09	0.000178
D1/2"	A992Fy50	0.0127	0.000127	2.554E-09	1.277E-09	0.000114

Table 15: Cable Section Definitions, Part 2 of 2

Table 15: Cable Section Definitions, Part 2 of 2

CableSect	AMod	A2Mod	A3Mod	JMod	I2Mod	I3Mod	MMod	WMod
5/8"	1.	1.	1.	1.	1.	1.	1.	1.
D1/2"	1.	1.	1.	1.	1.	1.	1.	1.

3.3. Tendons

Table 16: Tendon Section Definitions, Part 1 of 2

Table 16: Tendon Section Definitions, Part 1 of 2

TendonSect	ModelOpt	Material	Diameter	Area	TorsConst	I	AS
			m	m2	m4	m4	m2
1/2"	Elements	A416Gr270	0.0127	0.000127	2.554E-09	1.277E-09	0.000114

Table 16: Tendon Section Definitions, Part 2 of 2

Table 16: Tendon Section Definitions, Part 2 of 2

TendonSect	AMod	A2Mod	A3Mod	JMod	I2Mod	I3Mod	MMod	WMod
1/2"	1.	1.	1.	1.	1.	1.	1.	1.

3.4. Areas

Table 17: Area Section Properties, Part 1 of 3

Table 17: Area Section Properties, Part 1 of 3

Section	Material	AreaType	Type	DrillDOF	Thickness	BendThick	F11Mod
					m	m	
ASEC1	4000Psi	Shell	Shell-Thin	Yes	0.25	0.25	1.
cubierta	A572Gr50	Shell	Membrane	Yes	0.0005	0.0005	1.

Table 17: Area Section Properties, Part 2 of 3

Table 17: Area Section Properties, Part 2 of 3

Section	F22Mod	F12Mod	M11Mod	M22Mod	M12Mod	V13Mod	V23Mod
ASEC1	1.	1.	1.	1.	1.	1.	1.
cubierta	1.	1.	1.	1.	1.	1.	1.

Table 17: Area Section Properties, Part 3 of 3

Table 17: Area Section Properties, Part 3 of 3

Section	MMod	WMod
ASEC1	1.	1.
cubierta	1.	1.

3.5. Solids

Table 18: Solid Property Definitions

Table 18: Solid Property Definitions

SolidProp	Material	MatAngleA	MatAngleB	MatAngleC
		Degrees	Degrees	Degrees
Solid1	4000Psi	0.	0.	0.

4. Load patterns

This section provides loading information as applied to the model.

4.1. Definitions

Table 19: Load Pattern Definitions

Table 19: Load Pattern Definitions

LoadPat	DesignType	SelfWtMult	AutoLoad
DEAD	Dead	1.	

Table 19: Load Pattern Definitions

LoadPat	DesignType	SelfWtMult	AutoLoad
LIVE	Live	0.	
WB	Wind	0.	API4F 2013
WS	Wind	0.	API4F 2013

4.2. Auto wind loading

Table 20: Auto Wind - API 4F 2013

Table 20: Auto Wind - API 4F 2013

LoadPat	ExposeFrom	Angle	UserZ	WindVel	SSLMult	ShieldFact
		Degrees				
WB	Frames	0.	No	93.	1.	0.85
WS	Frames	0.	No	93.	1.	0.85

5. Load cases

This section provides load case information.

5.1. Definitions

Table 21: Load Case Definitions, Part 1 of 2

Table 21: Load Case Definitions, Part 1 of 2

Case	Type	InitialCond	ModalCase	BaseCase	MassSource	DesActOpt
DEAD	LinStatic	Zero				Prog Det
MODAL	LinModal	Zero				Prog Det
LIVE	LinStatic	Zero				Prog Det
WB	LinStatic	Zero				Prog Det
WS	LinStatic	Zero				Prog Det

Table 21: Load Case Definitions, Part 2 of 2

Table 21: Load Case Definitions, Part 2 of 2

Case	DesignAct
DEAD	Non-Composite
MODAL	Other
LIVE	Short-Term Composite
WB	Short-Term Composite
WS	Short-Term Composite

5.2. Static case load assignments

Table 22: Case - Static 1 - Load Assignments

Table 22: Case - Static 1 - Load Assignments

Case	LoadType	LoadName	LoadSF
DEAD	Load pattern	DEAD	1.
LIVE	Load pattern	LIVE	1.
WB	Load pattern	WB	1.
WS	Load pattern	WS	1.

5.3. Response spectrum case load assignments

Table 23: Function - Response Spectrum - User

Table 23: Function - Response Spectrum - User

Name	Period	Accel	FuncDamp
	Sec		
UNIFRS	0.	1.	0.05
UNIFRS	1.	1.	

6. Load combinations

This section provides load combination information.

Table 24: Combination Definitions

Table 24: Combination Definitions

ComboName	ComboType	CaseName	ScaleFactor
COMB1	Linear Add	DEAD	1.4
COMB2	Linear Add	DEAD	1.2
COMB2		LIVE	1.6
COMB3	Linear Add	DEAD	1.2
COMB3		LIVE	1.
COMB3		WB	0.8
COMB4	Linear Add	DEAD	1.2
COMB4		LIVE	1.
COMB4		WS	0.8
COMB5	Linear Add	DEAD	1.2
COMB5		LIVE	1.
COMB6	Linear Add	DEAD	0.9
COMB6		WB	1.6
COMB7	Linear Add	DEAD	0.9
COMB7		WS	1.6
SERVICIO	Linear Add	DEAD	1.

Table 24: Combination Definitions

ComboName	ComboType	CaseName	ScaleFactor
SERVICIO		LIVE	1.
DCON1	Linear Add	DEAD	1.4
DCON2	Linear Add	DEAD	1.2
DCON2		LIVE	1.6
DCON3	Linear Add	DEAD	1.2
DCON3		LIVE	1.
DCON3		WB	1.
DCON4	Linear Add	DEAD	1.2
DCON4		LIVE	1.
DCON4		WB	-1.
DCON5	Linear Add	DEAD	1.2
DCON5		LIVE	1.
DCON5		WS	1.
DCON6	Linear Add	DEAD	1.2
DCON6		LIVE	1.
DCON6		WS	-1.
DCON7	Linear Add	DEAD	0.9
DCON7		WB	1.
DCON8	Linear Add	DEAD	0.9
DCON8		WB	-1.
DCON9	Linear Add	DEAD	0.9
DCON9		WS	1.
DCON10	Linear Add	DEAD	0.9
DCON10		WS	-1.
DSTL1	Linear Add	DEAD	1.4
DSTL2	Linear Add	DEAD	1.2
DSTL2		LIVE	1.6
DSTL3	Linear Add	DEAD	1.2
DSTL3		LIVE	1.
DSTL3		WB	1.
DSTL4	Linear Add	DEAD	1.2
DSTL4		LIVE	1.
DSTL4		WB	-1.
DSTL5	Linear Add	DEAD	1.2
DSTL5		LIVE	1.
DSTL5		WS	1.
DSTL6	Linear Add	DEAD	1.2
DSTL6		LIVE	1.
DSTL6		WS	-1.
DSTL7	Linear Add	DEAD	0.9
DSTL7		WB	1.
DSTL8	Linear Add	DEAD	0.9
DSTL8		WB	-1.
DSTL9	Linear Add	DEAD	0.9
DSTL9		WS	1.
DSTL10	Linear Add	DEAD	0.9
DSTL10		WS	-1.
DSTL11	Linear Add	DEAD	1.
DSTL12	Linear Add	DEAD	1.
DSTL12		LIVE	1.

7. Material take-off

This section provides a material take-off.

Table 25: Material List 2 - By Section Property

Table 25: Material List 2 - By Section Property

Section	ObjectType	NumPieces	TotalLength m	TotalWeight Tonf
W18X35	Frame	1	0.01468	7.659E-04
COL 30X30	Frame	14	47.33314	10.2358
200x200x5.00MM	Frame	72	146.82855	4.4946
2PAG150X60X17X1.50MM	Frame	44	187.21709	1.6223
2PAG220X80X20X3.00MM-1	Frame	24	107.72153	1.8973
250x250x8.00MM-1	Frame	7	60.20631	3.6595

8. Design preferences

This section provides the design preferences for each type of design, which typically include material reduction factors, framing type, stress ratio limit, deflection limits, and other code specific items.

8.1. Steel design

Table 26: Preferences - Steel Design - AISC 360-16, Part 1 of 4

Table 26: Preferences - Steel Design - AISC 360-16, Part 1 of 4

THDesign	FrameType	PatLLF	SRatioLimit	MaxIter	SDC	SeisCode	SeisLoad	ImpFactor
Envelopes	SMF	0.75	0.95	1	D	No	No	1.

Table 26: Preferences - Steel Design - AISC 360-16, Part 2 of 4

Table 26: Preferences - Steel Design - AISC 360-16, Part 2 of 4

SystemRho	SystemSds	SystemR	SystemCd	Omega0	Provision	AMethod	SOMethod	SRMethod
1.	0.5	8.	5.5	3.	LRFD	Direct Analysis	General 2nd Order	Tau-b Fixed

Table 26: Preferences - Steel Design - AISC 360-16, Part 3 of 4

Table 26: Preferences - Steel Design - AISC 360-16, Part 3 of 4

NLCoeff	PhiB	PhiC	PhiTY	PhiTF	PhiV	PhiVRolledI	PhiVT	PlugWeld
0.002	0.9	0.9	0.9	0.75	0.9	1.	0.9	Yes

Table 26: Preferences - Steel Design - AISC 360-16, Part 4 of 4

Table 26: Preferences - Steel Design - AISC 360-16, Part 4 of 4

HSSWelding	HSSReduceT	CheckDefl	DLRat	SDLAndLLRat	LLRat	TotalRat	NetRat
ERW	No	No	120.	120.	360.	240.	240.

8.2. Concrete design

Table 27: Preferences - Concrete Design - ACI 318-19, Part 1 of 3

Table 27: Preferences - Concrete Design - ACI 318-19, Part 1 of 3

THDesign	NumCurves	NumPoints	MinEccen	BCCDesign	IgnoreBPu	CTorsion	PatLLF	UFLimit
Envelopes	24	11	Yes	Yes	Yes	Yes	0.75	0.95

Table 27: Preferences - Concrete Design - ACI 318-19, Part 2 of 3

Table 27: Preferences - Concrete Design - ACI 318-19, Part 2 of 3

SeisCat	Rho	Sds	PhiT	PhiCTied	PhiCSpiral	PhiV	PhiVSeismic	PhiVJoint
D	1.	0.5	0.9	0.65	0.75	0.75	0.6	0.85

Table 27: Preferences - Concrete Design - ACI 318-19, Part 3 of 3

Table 27: Preferences - Concrete Design - ACI 318-19, Part 3 of 3

TanTheta
1.

Table 28: Preferences - Concrete Shell Design - Eurocode 2-2004

Table 28: Preferences - Concrete Shell Design - Eurocode 2-2004

Country	GammaS	GammaC	AlphaCC
CEN Default	1.15	1.5	1.

8.3. Aluminum design

Table 29: Preferences - Aluminum Design - AA 2015, Part 1 of 2

Table 29: Preferences - Aluminum Design - AA 2015, Part 1 of 2

THDesign	SRatioLimit	Provision	LatFact	UseLatFact	Bridge	PhiTy	PhiTr	PhiC
Envelopes	1.	LRFD	1.333333	No	No	0.9	0.75	0.9

Table 29: Preferences - Aluminum Design - AA 2015, Part 2 of 2

Table 29: Preferences - Aluminum Design - AA 2015, Part 2 of 2

PhiBo	PhiBr	PhiVo	PhiVr
0.9	0.75	0.9	0.75

8.4. Cold formed design

Table 30: Preferences - Cold Formed Design - AISI-16, Part 1 of 2

Table 30: Preferences - Cold Formed Design - AISI-16, Part 1 of 2

THDesign	FrameType	SRatioLimit	SOMethod	Provision	LatFact	UseLatFact	PhiTy	PhiTr
Envelopes	Braced Frame	1.	General 2nd Order	LRFD	1.333333	No	0.9	0.75

Table 30: Preferences - Cold Formed Design - AISI-16, Part 2 of 2

Table 30: Preferences - Cold Formed Design - AISI-16, Part 2 of 2

PhiC	PhiB	PhiBPipe	PhiV
0.85	0.9	0.95	0.95

9. Design overwrites

This section provides the design overwrites for each type of design, which are assigned to individual members of the structure.

9.1. Steel design

Table 31: Overwrites - Steel Design - AISC 360-16, Part 1 of 7

Table 31: Overwrites - Steel Design - AISC 360-16, Part 1 of 7

Frame	DesignSect	FrameType	Fy	RLLF	AreaRatio	XLMajor
			Tonf/m2			
313	Program Determined	Program Determined	0.	0.	0.	0.
23	Program Determined	Program Determined	0.	0.	0.	0.
30	Program Determined	Program Determined	0.	0.	0.	0.
35	Program Determined	Program Determined	0.	0.	0.	0.

Table 31: Overwrites - Steel Design - AISC 360-16, Part 1 of 7

Frame	DesignSect	FrameType	Fy	RLLF	AreaRatio	XLMajor
			Tonf/m2			
81	Program Determined	Program Determined	0.	0.	0.	0.
85	Program Determined	Program Determined	0.	0.	0.	0.
86	Program Determined	Program Determined	0.	0.	0.	0.
89	Program Determined	Program Determined	0.	0.	0.	0.
90	Program Determined	Program Determined	0.	0.	0.	0.
91	Program Determined	Program Determined	0.	0.	0.	0.
92	Program Determined	Program Determined	0.	0.	0.	0.
95	Program Determined	Program Determined	0.	0.	0.	0.
97	Program Determined	Program Determined	0.	0.	0.	0.
98	Program Determined	Program Determined	0.	0.	0.	0.
103	Program Determined	Program Determined	0.	0.	0.	0.
107	Program Determined	Program Determined	0.	0.	0.	0.
108	Program Determined	Program Determined	0.	0.	0.	0.
109	Program Determined	Program Determined	0.	0.	0.	0.
110	Program Determined	Program Determined	0.	0.	0.	0.
111	Program Determined	Program Determined	0.	0.	0.	0.
112	Program Determined	Program Determined	0.	0.	0.	0.
125	Program Determined	Program Determined	0.	0.	0.	0.
126	Program Determined	Program Determined	0.	0.	0.	0.
127	Program Determined	Program Determined	0.	0.	0.	0.
128	Program Determined	Program Determined	0.	0.	0.	0.
131	Program Determined	Program Determined	0.	0.	0.	0.
140	Program Determined	Program Determined	0.	0.	0.	0.
141	Program Determined	Program Determined	0.	0.	0.	0.
157	Program Determined	Program Determined	0.	0.	0.	0.
172	Program Determined	Program Determined	0.	0.	0.	0.
180	Program Determined	Program Determined	0.	0.	0.	0.
181	Program Determined	Program Determined	0.	0.	0.	0.
182	Program Determined	Program Determined	0.	0.	0.	0.
183	Program Determined	Program Determined	0.	0.	0.	0.
186	Program Determined	Program Determined	0.	0.	0.	0.
190	Program Determined	Program Determined	0.	0.	0.	0.
196	Program Determined	Program Determined	0.	0.	0.	0.
197	Program Determined	Program Determined	0.	0.	0.	0.
199	Program Determined	Program Determined	0.	0.	0.	0.
200	Program Determined	Program Determined	0.	0.	0.	0.
201	Program Determined	Program Determined	0.	0.	0.	0.
202	Program Determined	Program Determined	0.	0.	0.	0.
348	Program Determined	Program Determined	0.	0.	0.	0.
349	Program Determined	Program Determined	0.	0.	0.	0.
350	Program Determined	Program Determined	0.	0.	0.	0.
351	Program Determined	Program Determined	0.	0.	0.	0.
352	Program Determined	Program Determined	0.	0.	0.	0.
353	Program Determined	Program Determined	0.	0.	0.	0.
354	Program Determined	Program Determined	0.	0.	0.	0.
355	Program Determined	Program Determined	0.	0.	0.	0.
356	Program Determined	Program Determined	0.	0.	0.	0.
357	Program Determined	Program Determined	0.	0.	0.	0.
360	Program Determined	Program Determined	0.	0.	0.	0.
361	Program Determined	Program Determined	0.	0.	0.	0.
362	Program Determined	Program Determined	0.	0.	0.	0.
363	Program Determined	Program Determined	0.	0.	0.	0.
364	Program Determined	Program Determined	0.	0.	0.	0.
365	Program Determined	Program Determined	0.	0.	0.	0.

Table 31: Overwrites - Steel Design - AISC 360-16, Part 1 of 7

Frame	DesignSect	FrameType	Fy	RLLF	AreaRatio	XLMajor
			Tonf/m2			
366	Program Determined	Program Determined	0.	0.	0.	0.
367	Program Determined	Program Determined	0.	0.	0.	0.
368	Program Determined	Program Determined	0.	0.	0.	0.
369	Program Determined	Program Determined	0.	0.	0.	0.
406	Program Determined	Program Determined	0.	0.	0.	0.
407	Program Determined	Program Determined	0.	0.	0.	0.
408	Program Determined	Program Determined	0.	0.	0.	0.
409	Program Determined	Program Determined	0.	0.	0.	0.
410	Program Determined	Program Determined	0.	0.	0.	0.
411	Program Determined	Program Determined	0.	0.	0.	0.
413	Program Determined	Program Determined	0.	0.	0.	0.
415	Program Determined	Program Determined	0.	0.	0.	0.
416	Program Determined	Program Determined	0.	0.	0.	0.
421	Program Determined	Program Determined	0.	0.	0.	0.
422	Program Determined	Program Determined	0.	0.	0.	0.
423	Program Determined	Program Determined	0.	0.	0.	0.
424	Program Determined	Program Determined	0.	0.	0.	0.
425	Program Determined	Program Determined	0.	0.	0.	0.
426	Program Determined	Program Determined	0.	0.	0.	0.
430	Program Determined	Program Determined	0.	0.	0.	0.
431	Program Determined	Program Determined	0.	0.	0.	0.
445	Program Determined	Program Determined	0.	0.	0.	0.
446	Program Determined	Program Determined	0.	0.	0.	0.
448	Program Determined	Program Determined	0.	0.	0.	0.
449	Program Determined	Program Determined	0.	0.	0.	0.
450	Program Determined	Program Determined	0.	0.	0.	0.
451	Program Determined	Program Determined	0.	0.	0.	0.
459	Program Determined	Program Determined	0.	0.	0.	0.
460	Program Determined	Program Determined	0.	0.	0.	0.
461	Program Determined	Program Determined	0.	0.	0.	0.
462	Program Determined	Program Determined	0.	0.	0.	0.
465	Program Determined	Program Determined	0.	0.	0.	0.
468	Program Determined	Program Determined	0.	0.	0.	0.
469	Program Determined	Program Determined	0.	0.	0.	0.
470	Program Determined	Program Determined	0.	0.	0.	0.
471	Program Determined	Program Determined	0.	0.	0.	0.
472	Program Determined	Program Determined	0.	0.	0.	0.
473	Program Determined	Program Determined	0.	0.	0.	0.
474	Program Determined	Program Determined	0.	0.	0.	0.
475	Program Determined	Program Determined	0.	0.	0.	0.
478	Program Determined	Program Determined	0.	0.	0.	0.
480	Program Determined	Program Determined	0.	0.	0.	0.
483	Program Determined	Program Determined	0.	0.	0.	0.
484	Program Determined	Program Determined	0.	0.	0.	0.
493	Program Determined	Program Determined	0.	0.	0.	0.
495	Program Determined	Program Determined	0.	0.	0.	0.
496	Program Determined	Program Determined	0.	0.	0.	0.
517	Program Determined	Program Determined	0.	0.	0.	0.
526	Program Determined	Program Determined	0.	0.	0.	0.
529	Program Determined	Program Determined	0.	0.	0.	0.
532	Program Determined	Program Determined	0.	0.	0.	0.
535	Program Determined	Program Determined	0.	0.	0.	0.
538	Program Determined	Program Determined	0.	0.	0.	0.
541	Program Determined	Program Determined	0.	0.	0.	0.

Table 31: Overwrites - Steel Design - AISC 360-16, Part 1 of 7

Frame	DesignSect	FrameType	Fy	RLLF	AreaRatio	XLMajor
			Tonf/m2			
544	Program Determined	Program Determined	0.	0.	0.	0.
547	Program Determined	Program Determined	0.	0.	0.	0.
550	Program Determined	Program Determined	0.	0.	0.	0.
553	Program Determined	Program Determined	0.	0.	0.	0.
556	Program Determined	Program Determined	0.	0.	0.	0.
557	Program Determined	Program Determined	0.	0.	0.	0.
558	Program Determined	Program Determined	0.	0.	0.	0.
559	Program Determined	Program Determined	0.	0.	0.	0.
560	Program Determined	Program Determined	0.	0.	0.	0.
561	Program Determined	Program Determined	0.	0.	0.	0.
562	Program Determined	Program Determined	0.	0.	0.	0.
564	Program Determined	Program Determined	0.	0.	0.	0.
565	Program Determined	Program Determined	0.	0.	0.	0.
566	Program Determined	Program Determined	0.	0.	0.	0.
567	Program Determined	Program Determined	0.	0.	0.	0.
568	Program Determined	Program Determined	0.	0.	0.	0.
569	Program Determined	Program Determined	0.	0.	0.	0.
570	Program Determined	Program Determined	0.	0.	0.	0.
571	Program Determined	Program Determined	0.	0.	0.	0.
572	Program Determined	Program Determined	0.	0.	0.	0.
573	Program Determined	Program Determined	0.	0.	0.	0.
574	Program Determined	Program Determined	0.	0.	0.	0.
575	Program Determined	Program Determined	0.	0.	0.	0.
576	Program Determined	Program Determined	0.	0.	0.	0.
577	Program Determined	Program Determined	0.	0.	0.	0.
578	Program Determined	Program Determined	0.	0.	0.	0.
581	Program Determined	Program Determined	0.	0.	0.	0.
582	Program Determined	Program Determined	0.	0.	0.	0.
585	Program Determined	Program Determined	0.	0.	0.	0.
586	Program Determined	Program Determined	0.	0.	0.	0.
587	Program Determined	Program Determined	0.	0.	0.	0.
590	Program Determined	Program Determined	0.	0.	0.	0.
593	Program Determined	Program Determined	0.	0.	0.	0.
596	Program Determined	Program Determined	0.	0.	0.	0.
599	Program Determined	Program Determined	0.	0.	0.	0.
610	Program Determined	Program Determined	0.	0.	0.	0.

Table 31: Overwrites - Steel Design - AISC 360-16, Part 2 of 7

Table 31: Overwrites - Steel Design - AISC 360-16, Part 2 of 7

Frame	XLMinor	XLLTB	K1Major	K1Minor	K2Major	K2Minor	KLTB
313	0.	0.	0.	0.	0.	0.	0.
23	0.	0.	0.	0.	0.	0.	0.
30	0.	0.	0.	0.	0.	0.	0.
35	0.	0.	0.	0.	0.	0.	0.
81	0.	0.	0.	0.	0.	0.	0.
85	0.	0.	0.	0.	0.	0.	0.
86	0.	0.	0.	0.	0.	0.	0.
89	0.	0.	0.	0.	0.	0.	0.
90	0.	0.	0.	0.	0.	0.	0.
91	0.	0.	0.	0.	0.	0.	0.
92	0.	0.	0.	0.	0.	0.	0.

Table 31: Overwrites - Steel Design - AISC 360-16, Part 2 of 7

Frame	XLMinor	XLLTB	K1Major	K1Minor	K2Major	K2Minor	KLTB
95	0.	0.	0.	0.	0.	0.	0.
97	0.	0.	0.	0.	0.	0.	0.
98	0.	0.	0.	0.	0.	0.	0.
103	0.	0.	0.	0.	0.	0.	0.
107	0.	0.	0.	0.	0.	0.	0.
108	0.	0.	0.	0.	0.	0.	0.
109	0.	0.	0.	0.	0.	0.	0.
110	0.	0.	0.	0.	0.	0.	0.
111	0.	0.	0.	0.	0.	0.	0.
112	0.	0.	0.	0.	0.	0.	0.
125	0.	0.	0.	0.	0.	0.	0.
126	0.	0.	0.	0.	0.	0.	0.
127	0.	0.	0.	0.	0.	0.	0.
128	0.	0.	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.	0.	0.
140	0.	0.	0.	0.	0.	0.	0.
141	0.	0.	0.	0.	0.	0.	0.
157	0.	0.	0.	0.	0.	0.	0.
172	0.	0.	0.	0.	0.	0.	0.
180	0.	0.	0.	0.	0.	0.	0.
181	0.	0.	0.	0.	0.	0.	0.
182	0.	0.	0.	0.	0.	0.	0.
183	0.	0.	0.	0.	0.	0.	0.
186	0.	0.	0.	0.	0.	0.	0.
190	0.	0.	0.	0.	0.	0.	0.
196	0.	0.	0.	0.	0.	0.	0.
197	0.	0.	0.	0.	0.	0.	0.
199	0.	0.	0.	0.	0.	0.	0.
200	0.	0.	0.	0.	0.	0.	0.
201	0.	0.	0.	0.	0.	0.	0.
202	0.	0.	0.	0.	0.	0.	0.
348	0.	0.	0.	0.	0.	0.	0.
349	0.	0.	0.	0.	0.	0.	0.
350	0.	0.	0.	0.	0.	0.	0.
351	0.	0.	0.	0.	0.	0.	0.
352	0.	0.	0.	0.	0.	0.	0.
353	0.	0.	0.	0.	0.	0.	0.
354	0.	0.	0.	0.	0.	0.	0.
355	0.	0.	0.	0.	0.	0.	0.
356	0.	0.	0.	0.	0.	0.	0.
357	0.	0.	0.	0.	0.	0.	0.
360	0.	0.	0.	0.	0.	0.	0.
361	0.	0.	0.	0.	0.	0.	0.
362	0.	0.	0.	0.	0.	0.	0.
363	0.	0.	0.	0.	0.	0.	0.
364	0.	0.	0.	0.	0.	0.	0.
365	0.	0.	0.	0.	0.	0.	0.
366	0.	0.	0.	0.	0.	0.	0.
367	0.	0.	0.	0.	0.	0.	0.
368	0.	0.	0.	0.	0.	0.	0.
369	0.	0.	0.	0.	0.	0.	0.
406	0.	0.	0.	0.	0.	0.	0.
407	0.	0.	0.	0.	0.	0.	0.
408	0.	0.	0.	0.	0.	0.	0.

Table 31: Overwrites - Steel Design - AISC 360-16, Part 2 of 7

Frame	XLMinor	XLLTB	K1Major	K1Minor	K2Major	K2Minor	KLTB
409	0.	0.	0.	0.	0.	0.	0.
410	0.	0.	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.	0.	0.
413	0.	0.	0.	0.	0.	0.	0.
415	0.	0.	0.	0.	0.	0.	0.
416	0.	0.	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.	0.	0.
423	0.	0.	0.	0.	0.	0.	0.
424	0.	0.	0.	0.	0.	0.	0.
425	0.	0.	0.	0.	0.	0.	0.
426	0.	0.	0.	0.	0.	0.	0.
430	0.	0.	0.	0.	0.	0.	0.
431	0.	0.	0.	0.	0.	0.	0.
445	0.	0.	0.	0.	0.	0.	0.
446	0.	0.	0.	0.	0.	0.	0.
448	0.	0.	0.	0.	0.	0.	0.
449	0.	0.	0.	0.	0.	0.	0.
450	0.	0.	0.	0.	0.	0.	0.
451	0.	0.	0.	0.	0.	0.	0.
459	0.	0.	0.	0.	0.	0.	0.
460	0.	0.	0.	0.	0.	0.	0.
461	0.	0.	0.	0.	0.	0.	0.
462	0.	0.	0.	0.	0.	0.	0.
465	0.	0.	0.	0.	0.	0.	0.
468	0.	0.	0.	0.	0.	0.	0.
469	0.	0.	0.	0.	0.	0.	0.
470	0.	0.	0.	0.	0.	0.	0.
471	0.	0.	0.	0.	0.	0.	0.
472	0.	0.	0.	0.	0.	0.	0.
473	0.	0.	0.	0.	0.	0.	0.
474	0.	0.	0.	0.	0.	0.	0.
475	0.	0.	0.	0.	0.	0.	0.
478	0.	0.	0.	0.	0.	0.	0.
480	0.	0.	0.	0.	0.	0.	0.
483	0.	0.	0.	0.	0.	0.	0.
484	0.	0.	0.	0.	0.	0.	0.
493	0.	0.	0.	0.	0.	0.	0.
495	0.	0.	0.	0.	0.	0.	0.
496	0.	0.	0.	0.	0.	0.	0.
517	0.	0.	0.	0.	0.	0.	0.
526	0.	0.	0.	0.	0.	0.	0.
529	0.	0.	0.	0.	0.	0.	0.
532	0.	0.	0.	0.	0.	0.	0.
535	0.	0.	0.	0.	0.	0.	0.
538	0.	0.	0.	0.	0.	0.	0.
541	0.	0.	0.	0.	0.	0.	0.
544	0.	0.	0.	0.	0.	0.	0.
547	0.	0.	0.	0.	0.	0.	0.
550	0.	0.	0.	0.	0.	0.	0.
553	0.	0.	0.	0.	0.	0.	0.
556	0.	0.	0.	0.	0.	0.	0.
557	0.	0.	0.	0.	0.	0.	0.
558	0.	0.	0.	0.	0.	0.	0.

Table 31: Overwrites - Steel Design - AISC 360-16, Part 2 of 7

Frame	XLMinor	XLLTB	K1Major	K1Minor	K2Major	K2Minor	KLTB
559	0.	0.	0.	0.	0.	0.	0.
560	0.	0.	0.	0.	0.	0.	0.
561	0.	0.	0.	0.	0.	0.	0.
562	0.	0.	0.	0.	0.	0.	0.
564	0.	0.	0.	0.	0.	0.	0.
565	0.	0.	0.	0.	0.	0.	0.
566	0.	0.	0.	0.	0.	0.	0.
567	0.	0.	0.	0.	0.	0.	0.
568	0.	0.	0.	0.	0.	0.	0.
569	0.	0.	0.	0.	0.	0.	0.
570	0.	0.	0.	0.	0.	0.	0.
571	0.	0.	0.	0.	0.	0.	0.
572	0.	0.	0.	0.	0.	0.	0.
573	0.	0.	0.	0.	0.	0.	0.
574	0.	0.	0.	0.	0.	0.	0.
575	0.	0.	0.	0.	0.	0.	0.
576	0.	0.	0.	0.	0.	0.	0.
577	0.	0.	0.	0.	0.	0.	0.
578	0.	0.	0.	0.	0.	0.	0.
581	0.	0.	0.	0.	0.	0.	0.
582	0.	0.	0.	0.	0.	0.	0.
585	0.	0.	0.	0.	0.	0.	0.
586	0.	0.	0.	0.	0.	0.	0.
587	0.	0.	0.	0.	0.	0.	0.
590	0.	0.	0.	0.	0.	0.	0.
593	0.	0.	0.	0.	0.	0.	0.
596	0.	0.	0.	0.	0.	0.	0.
599	0.	0.	0.	0.	0.	0.	0.
610	0.	0.	0.	0.	0.	0.	0.

Table 31: Overwrites - Steel Design - AISC 360-16, Part 3 of 7

Table 31: Overwrites - Steel Design - AISC 360-16, Part 3 of 7

Frame	CmMajor	CmMinor	Cb	B1Major	B1Minor	B2Major	B2Minor
313	0.	0.	0.	0.	0.	0.	0.
23	0.	0.	0.	0.	0.	0.	0.
30	0.	0.	0.	0.	0.	0.	0.
35	0.	0.	0.	0.	0.	0.	0.
81	0.	0.	0.	0.	0.	0.	0.
85	0.	0.	0.	0.	0.	0.	0.
86	0.	0.	0.	0.	0.	0.	0.
89	0.	0.	0.	0.	0.	0.	0.
90	0.	0.	0.	0.	0.	0.	0.
91	0.	0.	0.	0.	0.	0.	0.
92	0.	0.	0.	0.	0.	0.	0.
95	0.	0.	0.	0.	0.	0.	0.
97	0.	0.	0.	0.	0.	0.	0.
98	0.	0.	0.	0.	0.	0.	0.
103	0.	0.	0.	0.	0.	0.	0.
107	0.	0.	0.	0.	0.	0.	0.
108	0.	0.	0.	0.	0.	0.	0.
109	0.	0.	0.	0.	0.	0.	0.

Table 31: Overwrites - Steel Design - AISC 360-16, Part 3 of 7

Frame	CmMajor	CmMinor	Cb	B1Major	B1Minor	B2Major	B2Minor
110	0.	0.	0.	0.	0.	0.	0.
111	0.	0.	0.	0.	0.	0.	0.
112	0.	0.	0.	0.	0.	0.	0.
125	0.	0.	0.	0.	0.	0.	0.
126	0.	0.	0.	0.	0.	0.	0.
127	0.	0.	0.	0.	0.	0.	0.
128	0.	0.	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.	0.	0.
140	0.	0.	0.	0.	0.	0.	0.
141	0.	0.	0.	0.	0.	0.	0.
157	0.	0.	0.	0.	0.	0.	0.
172	0.	0.	0.	0.	0.	0.	0.
180	0.	0.	0.	0.	0.	0.	0.
181	0.	0.	0.	0.	0.	0.	0.
182	0.	0.	0.	0.	0.	0.	0.
183	0.	0.	0.	0.	0.	0.	0.
186	0.	0.	0.	0.	0.	0.	0.
190	0.	0.	0.	0.	0.	0.	0.
196	0.	0.	0.	0.	0.	0.	0.
197	0.	0.	0.	0.	0.	0.	0.
199	0.	0.	0.	0.	0.	0.	0.
200	0.	0.	0.	0.	0.	0.	0.
201	0.	0.	0.	0.	0.	0.	0.
202	0.	0.	0.	0.	0.	0.	0.
348	0.	0.	0.	0.	0.	0.	0.
349	0.	0.	0.	0.	0.	0.	0.
350	0.	0.	0.	0.	0.	0.	0.
351	0.	0.	0.	0.	0.	0.	0.
352	0.	0.	0.	0.	0.	0.	0.
353	0.	0.	0.	0.	0.	0.	0.
354	0.	0.	0.	0.	0.	0.	0.
355	0.	0.	0.	0.	0.	0.	0.
356	0.	0.	0.	0.	0.	0.	0.
357	0.	0.	0.	0.	0.	0.	0.
360	0.	0.	0.	0.	0.	0.	0.
361	0.	0.	0.	0.	0.	0.	0.
362	0.	0.	0.	0.	0.	0.	0.
363	0.	0.	0.	0.	0.	0.	0.
364	0.	0.	0.	0.	0.	0.	0.
365	0.	0.	0.	0.	0.	0.	0.
366	0.	0.	0.	0.	0.	0.	0.
367	0.	0.	0.	0.	0.	0.	0.
368	0.	0.	0.	0.	0.	0.	0.
369	0.	0.	0.	0.	0.	0.	0.
406	0.	0.	0.	0.	0.	0.	0.
407	0.	0.	0.	0.	0.	0.	0.
408	0.	0.	0.	0.	0.	0.	0.
409	0.	0.	0.	0.	0.	0.	0.
410	0.	0.	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.	0.	0.
413	0.	0.	0.	0.	0.	0.	0.
415	0.	0.	0.	0.	0.	0.	0.
416	0.	0.	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.	0.	0.

Table 31: Overwrites - Steel Design - AISC 360-16, Part 3 of 7

Frame	CmMajor	CmMinor	Cb	B1Major	B1Minor	B2Major	B2Minor
422	0.	0.	0.	0.	0.	0.	0.
423	0.	0.	0.	0.	0.	0.	0.
424	0.	0.	0.	0.	0.	0.	0.
425	0.	0.	0.	0.	0.	0.	0.
426	0.	0.	0.	0.	0.	0.	0.
430	0.	0.	0.	0.	0.	0.	0.
431	0.	0.	0.	0.	0.	0.	0.
445	0.	0.	0.	0.	0.	0.	0.
446	0.	0.	0.	0.	0.	0.	0.
448	0.	0.	0.	0.	0.	0.	0.
449	0.	0.	0.	0.	0.	0.	0.
450	0.	0.	0.	0.	0.	0.	0.
451	0.	0.	0.	0.	0.	0.	0.
459	0.	0.	0.	0.	0.	0.	0.
460	0.	0.	0.	0.	0.	0.	0.
461	0.	0.	0.	0.	0.	0.	0.
462	0.	0.	0.	0.	0.	0.	0.
465	0.	0.	0.	0.	0.	0.	0.
468	0.	0.	0.	0.	0.	0.	0.
469	0.	0.	0.	0.	0.	0.	0.
470	0.	0.	0.	0.	0.	0.	0.
471	0.	0.	0.	0.	0.	0.	0.
472	0.	0.	0.	0.	0.	0.	0.
473	0.	0.	0.	0.	0.	0.	0.
474	0.	0.	0.	0.	0.	0.	0.
475	0.	0.	0.	0.	0.	0.	0.
478	0.	0.	0.	0.	0.	0.	0.
480	0.	0.	0.	0.	0.	0.	0.
483	0.	0.	0.	0.	0.	0.	0.
484	0.	0.	0.	0.	0.	0.	0.
493	0.	0.	0.	0.	0.	0.	0.
495	0.	0.	0.	0.	0.	0.	0.
496	0.	0.	0.	0.	0.	0.	0.
517	0.	0.	0.	0.	0.	0.	0.
526	0.	0.	0.	0.	0.	0.	0.
529	0.	0.	0.	0.	0.	0.	0.
532	0.	0.	0.	0.	0.	0.	0.
535	0.	0.	0.	0.	0.	0.	0.
538	0.	0.	0.	0.	0.	0.	0.
541	0.	0.	0.	0.	0.	0.	0.
544	0.	0.	0.	0.	0.	0.	0.
547	0.	0.	0.	0.	0.	0.	0.
550	0.	0.	0.	0.	0.	0.	0.
553	0.	0.	0.	0.	0.	0.	0.
556	0.	0.	0.	0.	0.	0.	0.
557	0.	0.	0.	0.	0.	0.	0.
558	0.	0.	0.	0.	0.	0.	0.
559	0.	0.	0.	0.	0.	0.	0.
560	0.	0.	0.	0.	0.	0.	0.
561	0.	0.	0.	0.	0.	0.	0.
562	0.	0.	0.	0.	0.	0.	0.
564	0.	0.	0.	0.	0.	0.	0.
565	0.	0.	0.	0.	0.	0.	0.
566	0.	0.	0.	0.	0.	0.	0.

Table 31: Overwrites - Steel Design - AISC 360-16, Part 3 of 7

Frame	CmMajor	CmMinor	Cb	B1Major	B1Minor	B2Major	B2Minor
567	0.	0.	0.	0.	0.	0.	0.
568	0.	0.	0.	0.	0.	0.	0.
569	0.	0.	0.	0.	0.	0.	0.
570	0.	0.	0.	0.	0.	0.	0.
571	0.	0.	0.	0.	0.	0.	0.
572	0.	0.	0.	0.	0.	0.	0.
573	0.	0.	0.	0.	0.	0.	0.
574	0.	0.	0.	0.	0.	0.	0.
575	0.	0.	0.	0.	0.	0.	0.
576	0.	0.	0.	0.	0.	0.	0.
577	0.	0.	0.	0.	0.	0.	0.
578	0.	0.	0.	0.	0.	0.	0.
581	0.	0.	0.	0.	0.	0.	0.
582	0.	0.	0.	0.	0.	0.	0.
585	0.	0.	0.	0.	0.	0.	0.
586	0.	0.	0.	0.	0.	0.	0.
587	0.	0.	0.	0.	0.	0.	0.
590	0.	0.	0.	0.	0.	0.	0.
593	0.	0.	0.	0.	0.	0.	0.
596	0.	0.	0.	0.	0.	0.	0.
599	0.	0.	0.	0.	0.	0.	0.
610	0.	0.	0.	0.	0.	0.	0.

Table 31: Overwrites - Steel Design - AISC 360-16, Part 4 of 7

Table 31: Overwrites - Steel Design - AISC 360-16, Part 4 of 7

Frame	HSSReduceT	HSSWelding	Omega0	Ry	Pnc	Pnt	Mn3
					Tonf	Tonf	Tonf-m
313	Program Determined	Program Determined	0.	0.	0.	0.	0.
23	Program Determined	Program Determined	0.	0.	0.	0.	0.
30	Program Determined	Program Determined	0.	0.	0.	0.	0.
35	Program Determined	Program Determined	0.	0.	0.	0.	0.
81	Program Determined	Program Determined	0.	0.	0.	0.	0.
85	Program Determined	Program Determined	0.	0.	0.	0.	0.
86	Program Determined	Program Determined	0.	0.	0.	0.	0.
89	Program Determined	Program Determined	0.	0.	0.	0.	0.
90	Program Determined	Program Determined	0.	0.	0.	0.	0.
91	Program Determined	Program Determined	0.	0.	0.	0.	0.
92	Program Determined	Program Determined	0.	0.	0.	0.	0.
95	Program Determined	Program Determined	0.	0.	0.	0.	0.
97	Program Determined	Program Determined	0.	0.	0.	0.	0.

Table 31: Overwrites - Steel Design - AISC 360-16, Part 4 of 7

Frame	HSSReduceT	HSSWelding	Omega0	Ry	Pnc	Pnt	Mn3
					Tonf	Tonf	Tonf-m
98	Program Determined	Program Determined	0.	0.	0.	0.	0.
103	Program Determined	Program Determined	0.	0.	0.	0.	0.
107	Program Determined	Program Determined	0.	0.	0.	0.	0.
108	Program Determined	Program Determined	0.	0.	0.	0.	0.
109	Program Determined	Program Determined	0.	0.	0.	0.	0.
110	Program Determined	Program Determined	0.	0.	0.	0.	0.
111	Program Determined	Program Determined	0.	0.	0.	0.	0.
112	Program Determined	Program Determined	0.	0.	0.	0.	0.
125	Program Determined	Program Determined	0.	0.	0.	0.	0.
126	Program Determined	Program Determined	0.	0.	0.	0.	0.
127	Program Determined	Program Determined	0.	0.	0.	0.	0.
128	Program Determined	Program Determined	0.	0.	0.	0.	0.
131	Program Determined	Program Determined	0.	0.	0.	0.	0.
140	Program Determined	Program Determined	0.	0.	0.	0.	0.
141	Program Determined	Program Determined	0.	0.	0.	0.	0.
157	Program Determined	Program Determined	0.	0.	0.	0.	0.
172	Program Determined	Program Determined	0.	0.	0.	0.	0.
180	Program Determined	Program Determined	0.	0.	0.	0.	0.
181	Program Determined	Program Determined	0.	0.	0.	0.	0.
182	Program Determined	Program Determined	0.	0.	0.	0.	0.
183	Program Determined	Program Determined	0.	0.	0.	0.	0.
186	Program Determined	Program Determined	0.	0.	0.	0.	0.
190	Program Determined	Program Determined	0.	0.	0.	0.	0.
196	Program Determined	Program Determined	0.	0.	0.	0.	0.
197	Program Determined	Program Determined	0.	0.	0.	0.	0.
199	Program Determined	Program Determined	0.	0.	0.	0.	0.
200	Program Determined	Program Determined	0.	0.	0.	0.	0.
201	Program Determined	Program Determined	0.	0.	0.	0.	0.
202	Program Determined	Program Determined	0.	0.	0.	0.	0.

Table 31: Overwrites - Steel Design - AISC 360-16, Part 4 of 7

Frame	HSSReduceT	HSSWelding	Omega0	Ry	Pnc	Pnt	Mn3
					Tonf	Tonf	Tonf-m
348	Program Determined	Program Determined	0.	0.	0.	0.	0.
349	Program Determined	Program Determined	0.	0.	0.	0.	0.
350	Program Determined	Program Determined	0.	0.	0.	0.	0.
351	Program Determined	Program Determined	0.	0.	0.	0.	0.
352	Program Determined	Program Determined	0.	0.	0.	0.	0.
353	Program Determined	Program Determined	0.	0.	0.	0.	0.
354	Program Determined	Program Determined	0.	0.	0.	0.	0.
355	Program Determined	Program Determined	0.	0.	0.	0.	0.
356	Program Determined	Program Determined	0.	0.	0.	0.	0.
357	Program Determined	Program Determined	0.	0.	0.	0.	0.
360	Program Determined	Program Determined	0.	0.	0.	0.	0.
361	Program Determined	Program Determined	0.	0.	0.	0.	0.
362	Program Determined	Program Determined	0.	0.	0.	0.	0.
363	Program Determined	Program Determined	0.	0.	0.	0.	0.
364	Program Determined	Program Determined	0.	0.	0.	0.	0.
365	Program Determined	Program Determined	0.	0.	0.	0.	0.
366	Program Determined	Program Determined	0.	0.	0.	0.	0.
367	Program Determined	Program Determined	0.	0.	0.	0.	0.
368	Program Determined	Program Determined	0.	0.	0.	0.	0.
369	Program Determined	Program Determined	0.	0.	0.	0.	0.
406	Program Determined	Program Determined	0.	0.	0.	0.	0.
407	Program Determined	Program Determined	0.	0.	0.	0.	0.
408	Program Determined	Program Determined	0.	0.	0.	0.	0.
409	Program Determined	Program Determined	0.	0.	0.	0.	0.
410	Program Determined	Program Determined	0.	0.	0.	0.	0.
411	Program Determined	Program Determined	0.	0.	0.	0.	0.
413	Program Determined	Program Determined	0.	0.	0.	0.	0.
415	Program Determined	Program Determined	0.	0.	0.	0.	0.
416	Program Determined	Program Determined	0.	0.	0.	0.	0.

Table 31: Overwrites - Steel Design - AISC 360-16, Part 4 of 7

Frame	HSSReduceT	HSSWelding	Omega0	Ry	Pnc	Pnt	Mn3
					Tonf	Tonf	Tonf-m
421	Program Determined	Program Determined	0.	0.	0.	0.	0.
422	Program Determined	Program Determined	0.	0.	0.	0.	0.
423	Program Determined	Program Determined	0.	0.	0.	0.	0.
424	Program Determined	Program Determined	0.	0.	0.	0.	0.
425	Program Determined	Program Determined	0.	0.	0.	0.	0.
426	Program Determined	Program Determined	0.	0.	0.	0.	0.
430	Program Determined	Program Determined	0.	0.	0.	0.	0.
431	Program Determined	Program Determined	0.	0.	0.	0.	0.
445	Program Determined	Program Determined	0.	0.	0.	0.	0.
446	Program Determined	Program Determined	0.	0.	0.	0.	0.
448	Program Determined	Program Determined	0.	0.	0.	0.	0.
449	Program Determined	Program Determined	0.	0.	0.	0.	0.
450	Program Determined	Program Determined	0.	0.	0.	0.	0.
451	Program Determined	Program Determined	0.	0.	0.	0.	0.
459	Program Determined	Program Determined	0.	0.	0.	0.	0.
460	Program Determined	Program Determined	0.	0.	0.	0.	0.
461	Program Determined	Program Determined	0.	0.	0.	0.	0.
462	Program Determined	Program Determined	0.	0.	0.	0.	0.
465	Program Determined	Program Determined	0.	0.	0.	0.	0.
468	Program Determined	Program Determined	0.	0.	0.	0.	0.
469	Program Determined	Program Determined	0.	0.	0.	0.	0.
470	Program Determined	Program Determined	0.	0.	0.	0.	0.
471	Program Determined	Program Determined	0.	0.	0.	0.	0.
472	Program Determined	Program Determined	0.	0.	0.	0.	0.
473	Program Determined	Program Determined	0.	0.	0.	0.	0.
474	Program Determined	Program Determined	0.	0.	0.	0.	0.
475	Program Determined	Program Determined	0.	0.	0.	0.	0.
478	Program Determined	Program Determined	0.	0.	0.	0.	0.
480	Program Determined	Program Determined	0.	0.	0.	0.	0.

Table 31: Overwrites - Steel Design - AISC 360-16, Part 4 of 7

Frame	HSSReduceT	HSSWelding	Omega0	Ry	Pnc	Pnt	Mn3
					Tonf	Tonf	Tonf-m
483	Program Determined	Program Determined	0.	0.	0.	0.	0.
484	Program Determined	Program Determined	0.	0.	0.	0.	0.
493	Program Determined	Program Determined	0.	0.	0.	0.	0.
495	Program Determined	Program Determined	0.	0.	0.	0.	0.
496	Program Determined	Program Determined	0.	0.	0.	0.	0.
517	Program Determined	Program Determined	0.	0.	0.	0.	0.
526	Program Determined	Program Determined	0.	0.	0.	0.	0.
529	Program Determined	Program Determined	0.	0.	0.	0.	0.
532	Program Determined	Program Determined	0.	0.	0.	0.	0.
535	Program Determined	Program Determined	0.	0.	0.	0.	0.
538	Program Determined	Program Determined	0.	0.	0.	0.	0.
541	Program Determined	Program Determined	0.	0.	0.	0.	0.
544	Program Determined	Program Determined	0.	0.	0.	0.	0.
547	Program Determined	Program Determined	0.	0.	0.	0.	0.
550	Program Determined	Program Determined	0.	0.	0.	0.	0.
553	Program Determined	Program Determined	0.	0.	0.	0.	0.
556	Program Determined	Program Determined	0.	0.	0.	0.	0.
557	Program Determined	Program Determined	0.	0.	0.	0.	0.
558	Program Determined	Program Determined	0.	0.	0.	0.	0.
559	Program Determined	Program Determined	0.	0.	0.	0.	0.
560	Program Determined	Program Determined	0.	0.	0.	0.	0.
561	Program Determined	Program Determined	0.	0.	0.	0.	0.
562	Program Determined	Program Determined	0.	0.	0.	0.	0.
564	Program Determined	Program Determined	0.	0.	0.	0.	0.
565	Program Determined	Program Determined	0.	0.	0.	0.	0.
566	Program Determined	Program Determined	0.	0.	0.	0.	0.
567	Program Determined	Program Determined	0.	0.	0.	0.	0.
568	Program Determined	Program Determined	0.	0.	0.	0.	0.
569	Program Determined	Program Determined	0.	0.	0.	0.	0.

Table 31: Overwrites - Steel Design - AISC 360-16, Part 4 of 7

Frame	HSSReduceT	HSSWelding	Omega0	Ry	Pnc	Pnt	Mn3
					Tonf	Tonf	Tonf-m
570	Program Determined	Program Determined	0.	0.	0.	0.	0.
571	Program Determined	Program Determined	0.	0.	0.	0.	0.
572	Program Determined	Program Determined	0.	0.	0.	0.	0.
573	Program Determined	Program Determined	0.	0.	0.	0.	0.
574	Program Determined	Program Determined	0.	0.	0.	0.	0.
575	Program Determined	Program Determined	0.	0.	0.	0.	0.
576	Program Determined	Program Determined	0.	0.	0.	0.	0.
577	Program Determined	Program Determined	0.	0.	0.	0.	0.
578	Program Determined	Program Determined	0.	0.	0.	0.	0.
581	Program Determined	Program Determined	0.	0.	0.	0.	0.
582	Program Determined	Program Determined	0.	0.	0.	0.	0.
585	Program Determined	Program Determined	0.	0.	0.	0.	0.
586	Program Determined	Program Determined	0.	0.	0.	0.	0.
587	Program Determined	Program Determined	0.	0.	0.	0.	0.
590	Program Determined	Program Determined	0.	0.	0.	0.	0.
593	Program Determined	Program Determined	0.	0.	0.	0.	0.
596	Program Determined	Program Determined	0.	0.	0.	0.	0.
599	Program Determined	Program Determined	0.	0.	0.	0.	0.
610	Program Determined	Program Determined	0.	0.	0.	0.	0.

Table 31: Overwrites - Steel Design - AISC 360-16, Part 5 of 7

Table 31: Overwrites - Steel Design - AISC 360-16, Part 5 of 7

Frame	Mn2	Vn2	Vn3	CheckDefl	DeflType	DLRat	SDLAndLLRat
	Tonf-m	Tonf	Tonf				
313	0.	0.	0.	Program Determined	Program Determined	0.	0.
23	0.	0.	0.	Program Determined	Program Determined	0.	0.
30	0.	0.	0.	Program Determined	Program Determined	0.	0.
35	0.	0.	0.	Program Determined	Program Determined	0.	0.
81	0.	0.	0.	Program Determined	Program Determined	0.	0.
85	0.	0.	0.	Program Determined	Program Determined	0.	0.

Table 31: Overwrites - Steel Design - AISC 360-16, Part 5 of 7

Frame	Mn2	Vn2	Vn3	CheckDefl	DeflType	DLRat	SDLAndLLRat
	Tonf-m	Tonf	Tonf				
86	0.	0.	0.	Program Determined	Program Determined	0.	0.
89	0.	0.	0.	Program Determined	Program Determined	0.	0.
90	0.	0.	0.	Program Determined	Program Determined	0.	0.
91	0.	0.	0.	Program Determined	Program Determined	0.	0.
92	0.	0.	0.	Program Determined	Program Determined	0.	0.
95	0.	0.	0.	Program Determined	Program Determined	0.	0.
97	0.	0.	0.	Program Determined	Program Determined	0.	0.
98	0.	0.	0.	Program Determined	Program Determined	0.	0.
103	0.	0.	0.	Program Determined	Program Determined	0.	0.
107	0.	0.	0.	Program Determined	Program Determined	0.	0.
108	0.	0.	0.	Program Determined	Program Determined	0.	0.
109	0.	0.	0.	Program Determined	Program Determined	0.	0.
110	0.	0.	0.	Program Determined	Program Determined	0.	0.
111	0.	0.	0.	Program Determined	Program Determined	0.	0.
112	0.	0.	0.	Program Determined	Program Determined	0.	0.
125	0.	0.	0.	Program Determined	Program Determined	0.	0.
126	0.	0.	0.	Program Determined	Program Determined	0.	0.
127	0.	0.	0.	Program Determined	Program Determined	0.	0.
128	0.	0.	0.	Program Determined	Program Determined	0.	0.
131	0.	0.	0.	Program Determined	Program Determined	0.	0.
140	0.	0.	0.	Program Determined	Program Determined	0.	0.
141	0.	0.	0.	Program Determined	Program Determined	0.	0.
157	0.	0.	0.	Program Determined	Program Determined	0.	0.
172	0.	0.	0.	Program Determined	Program Determined	0.	0.
180	0.	0.	0.	Program Determined	Program Determined	0.	0.
181	0.	0.	0.	Program Determined	Program Determined	0.	0.
182	0.	0.	0.	Program Determined	Program Determined	0.	0.
183	0.	0.	0.	Program Determined	Program Determined	0.	0.
186	0.	0.	0.	Program Determined	Program Determined	0.	0.

Table 31: Overwrites - Steel Design - AISC 360-16, Part 5 of 7

Frame	Mn2	Vn2	Vn3	CheckDefl	DeflType	DLRat	SDLAndLLRat
	Tonf-m	Tonf	Tonf				
190	0.	0.	0.	Program Determined	Program Determined	0.	0.
196	0.	0.	0.	Program Determined	Program Determined	0.	0.
197	0.	0.	0.	Program Determined	Program Determined	0.	0.
199	0.	0.	0.	Program Determined	Program Determined	0.	0.
200	0.	0.	0.	Program Determined	Program Determined	0.	0.
201	0.	0.	0.	Program Determined	Program Determined	0.	0.
202	0.	0.	0.	Program Determined	Program Determined	0.	0.
348	0.	0.	0.	Program Determined	Program Determined	0.	0.
349	0.	0.	0.	Program Determined	Program Determined	0.	0.
350	0.	0.	0.	Program Determined	Program Determined	0.	0.
351	0.	0.	0.	Program Determined	Program Determined	0.	0.
352	0.	0.	0.	Program Determined	Program Determined	0.	0.
353	0.	0.	0.	Program Determined	Program Determined	0.	0.
354	0.	0.	0.	Program Determined	Program Determined	0.	0.
355	0.	0.	0.	Program Determined	Program Determined	0.	0.
356	0.	0.	0.	Program Determined	Program Determined	0.	0.
357	0.	0.	0.	Program Determined	Program Determined	0.	0.
360	0.	0.	0.	Program Determined	Program Determined	0.	0.
361	0.	0.	0.	Program Determined	Program Determined	0.	0.
362	0.	0.	0.	Program Determined	Program Determined	0.	0.
363	0.	0.	0.	Program Determined	Program Determined	0.	0.
364	0.	0.	0.	Program Determined	Program Determined	0.	0.
365	0.	0.	0.	Program Determined	Program Determined	0.	0.
366	0.	0.	0.	Program Determined	Program Determined	0.	0.
367	0.	0.	0.	Program Determined	Program Determined	0.	0.
368	0.	0.	0.	Program Determined	Program Determined	0.	0.
369	0.	0.	0.	Program Determined	Program Determined	0.	0.
406	0.	0.	0.	Program Determined	Program Determined	0.	0.
407	0.	0.	0.	Program Determined	Program Determined	0.	0.

Table 31: Overwrites - Steel Design - AISC 360-16, Part 5 of 7

Frame	Mn2	Vn2	Vn3	CheckDefl	DeflType	DLRat	SDLAndLLRat
	Tonf-m	Tonf	Tonf				
408	0.	0.	0.	Program Determined	Program Determined	0.	0.
409	0.	0.	0.	Program Determined	Program Determined	0.	0.
410	0.	0.	0.	Program Determined	Program Determined	0.	0.
411	0.	0.	0.	Program Determined	Program Determined	0.	0.
413	0.	0.	0.	Program Determined	Program Determined	0.	0.
415	0.	0.	0.	Program Determined	Program Determined	0.	0.
416	0.	0.	0.	Program Determined	Program Determined	0.	0.
421	0.	0.	0.	Program Determined	Program Determined	0.	0.
422	0.	0.	0.	Program Determined	Program Determined	0.	0.
423	0.	0.	0.	Program Determined	Program Determined	0.	0.
424	0.	0.	0.	Program Determined	Program Determined	0.	0.
425	0.	0.	0.	Program Determined	Program Determined	0.	0.
426	0.	0.	0.	Program Determined	Program Determined	0.	0.
430	0.	0.	0.	Program Determined	Program Determined	0.	0.
431	0.	0.	0.	Program Determined	Program Determined	0.	0.
445	0.	0.	0.	Program Determined	Program Determined	0.	0.
446	0.	0.	0.	Program Determined	Program Determined	0.	0.
448	0.	0.	0.	Program Determined	Program Determined	0.	0.
449	0.	0.	0.	Program Determined	Program Determined	0.	0.
450	0.	0.	0.	Program Determined	Program Determined	0.	0.
451	0.	0.	0.	Program Determined	Program Determined	0.	0.
459	0.	0.	0.	Program Determined	Program Determined	0.	0.
460	0.	0.	0.	Program Determined	Program Determined	0.	0.
461	0.	0.	0.	Program Determined	Program Determined	0.	0.
462	0.	0.	0.	Program Determined	Program Determined	0.	0.
465	0.	0.	0.	Program Determined	Program Determined	0.	0.
468	0.	0.	0.	Program Determined	Program Determined	0.	0.
469	0.	0.	0.	Program Determined	Program Determined	0.	0.
470	0.	0.	0.	Program Determined	Program Determined	0.	0.

Table 31: Overwrites - Steel Design - AISC 360-16, Part 5 of 7

Frame	Mn2	Vn2	Vn3	CheckDefl	DeflType	DLRat	SDLAndLLRat
	Tonf-m	Tonf	Tonf				
471	0.	0.	0.	Program Determined	Program Determined	0.	0.
472	0.	0.	0.	Program Determined	Program Determined	0.	0.
473	0.	0.	0.	Program Determined	Program Determined	0.	0.
474	0.	0.	0.	Program Determined	Program Determined	0.	0.
475	0.	0.	0.	Program Determined	Program Determined	0.	0.
478	0.	0.	0.	Program Determined	Program Determined	0.	0.
480	0.	0.	0.	Program Determined	Program Determined	0.	0.
483	0.	0.	0.	Program Determined	Program Determined	0.	0.
484	0.	0.	0.	Program Determined	Program Determined	0.	0.
493	0.	0.	0.	Program Determined	Program Determined	0.	0.
495	0.	0.	0.	Program Determined	Program Determined	0.	0.
496	0.	0.	0.	Program Determined	Program Determined	0.	0.
517	0.	0.	0.	Program Determined	Program Determined	0.	0.
526	0.	0.	0.	Program Determined	Program Determined	0.	0.
529	0.	0.	0.	Program Determined	Program Determined	0.	0.
532	0.	0.	0.	Program Determined	Program Determined	0.	0.
535	0.	0.	0.	Program Determined	Program Determined	0.	0.
538	0.	0.	0.	Program Determined	Program Determined	0.	0.
541	0.	0.	0.	Program Determined	Program Determined	0.	0.
544	0.	0.	0.	Program Determined	Program Determined	0.	0.
547	0.	0.	0.	Program Determined	Program Determined	0.	0.
550	0.	0.	0.	Program Determined	Program Determined	0.	0.
553	0.	0.	0.	Program Determined	Program Determined	0.	0.
556	0.	0.	0.	Program Determined	Program Determined	0.	0.
557	0.	0.	0.	Program Determined	Program Determined	0.	0.
558	0.	0.	0.	Program Determined	Program Determined	0.	0.
559	0.	0.	0.	Program Determined	Program Determined	0.	0.
560	0.	0.	0.	Program Determined	Program Determined	0.	0.
561	0.	0.	0.	Program Determined	Program Determined	0.	0.

Table 31: Overwrites - Steel Design - AISC 360-16, Part 5 of 7

Frame	Mn2	Vn2	Vn3	CheckDefl	DeflType	DLRat	SDLAndLLRat
	Tonf-m	Tonf	Tonf				
562	0.	0.	0.	Program Determined	Program Determined	0.	0.
564	0.	0.	0.	Program Determined	Program Determined	0.	0.
565	0.	0.	0.	Program Determined	Program Determined	0.	0.
566	0.	0.	0.	Program Determined	Program Determined	0.	0.
567	0.	0.	0.	Program Determined	Program Determined	0.	0.
568	0.	0.	0.	Program Determined	Program Determined	0.	0.
569	0.	0.	0.	Program Determined	Program Determined	0.	0.
570	0.	0.	0.	Program Determined	Program Determined	0.	0.
571	0.	0.	0.	Program Determined	Program Determined	0.	0.
572	0.	0.	0.	Program Determined	Program Determined	0.	0.
573	0.	0.	0.	Program Determined	Program Determined	0.	0.
574	0.	0.	0.	Program Determined	Program Determined	0.	0.
575	0.	0.	0.	Program Determined	Program Determined	0.	0.
576	0.	0.	0.	Program Determined	Program Determined	0.	0.
577	0.	0.	0.	Program Determined	Program Determined	0.	0.
578	0.	0.	0.	Program Determined	Program Determined	0.	0.
581	0.	0.	0.	Program Determined	Program Determined	0.	0.
582	0.	0.	0.	Program Determined	Program Determined	0.	0.
585	0.	0.	0.	Program Determined	Program Determined	0.	0.
586	0.	0.	0.	Program Determined	Program Determined	0.	0.
587	0.	0.	0.	Program Determined	Program Determined	0.	0.
590	0.	0.	0.	Program Determined	Program Determined	0.	0.
593	0.	0.	0.	Program Determined	Program Determined	0.	0.
596	0.	0.	0.	Program Determined	Program Determined	0.	0.
599	0.	0.	0.	Program Determined	Program Determined	0.	0.
610	0.	0.	0.	Program Determined	Program Determined	0.	0.

Table 31: Overwrites - Steel Design - AISC 360-16, Part 6 of 7

Table 31: Overwrites - Steel Design - AISC 360-16, Part 6 of 7

Frame	LLRat	TotalRat	NetRat	DLAbs	SDLAndLLAbs	LLAbs	TotalAbs
				m	m	m	m
313	0.	0.	0.	0.	0.	0.	0.
23	0.	0.	0.	0.	0.	0.	0.
30	0.	0.	0.	0.	0.	0.	0.
35	0.	0.	0.	0.	0.	0.	0.
81	0.	0.	0.	0.	0.	0.	0.
85	0.	0.	0.	0.	0.	0.	0.
86	0.	0.	0.	0.	0.	0.	0.
89	0.	0.	0.	0.	0.	0.	0.
90	0.	0.	0.	0.	0.	0.	0.
91	0.	0.	0.	0.	0.	0.	0.
92	0.	0.	0.	0.	0.	0.	0.
95	0.	0.	0.	0.	0.	0.	0.
97	0.	0.	0.	0.	0.	0.	0.
98	0.	0.	0.	0.	0.	0.	0.
103	0.	0.	0.	0.	0.	0.	0.
107	0.	0.	0.	0.	0.	0.	0.
108	0.	0.	0.	0.	0.	0.	0.
109	0.	0.	0.	0.	0.	0.	0.
110	0.	0.	0.	0.	0.	0.	0.
111	0.	0.	0.	0.	0.	0.	0.
112	0.	0.	0.	0.	0.	0.	0.
125	0.	0.	0.	0.	0.	0.	0.
126	0.	0.	0.	0.	0.	0.	0.
127	0.	0.	0.	0.	0.	0.	0.
128	0.	0.	0.	0.	0.	0.	0.
131	0.	0.	0.	0.	0.	0.	0.
140	0.	0.	0.	0.	0.	0.	0.
141	0.	0.	0.	0.	0.	0.	0.
157	0.	0.	0.	0.	0.	0.	0.
172	0.	0.	0.	0.	0.	0.	0.
180	0.	0.	0.	0.	0.	0.	0.
181	0.	0.	0.	0.	0.	0.	0.
182	0.	0.	0.	0.	0.	0.	0.
183	0.	0.	0.	0.	0.	0.	0.
186	0.	0.	0.	0.	0.	0.	0.
190	0.	0.	0.	0.	0.	0.	0.
196	0.	0.	0.	0.	0.	0.	0.
197	0.	0.	0.	0.	0.	0.	0.
199	0.	0.	0.	0.	0.	0.	0.
200	0.	0.	0.	0.	0.	0.	0.
201	0.	0.	0.	0.	0.	0.	0.
202	0.	0.	0.	0.	0.	0.	0.
348	0.	0.	0.	0.	0.	0.	0.
349	0.	0.	0.	0.	0.	0.	0.
350	0.	0.	0.	0.	0.	0.	0.
351	0.	0.	0.	0.	0.	0.	0.
352	0.	0.	0.	0.	0.	0.	0.
353	0.	0.	0.	0.	0.	0.	0.
354	0.	0.	0.	0.	0.	0.	0.
355	0.	0.	0.	0.	0.	0.	0.
356	0.	0.	0.	0.	0.	0.	0.
357	0.	0.	0.	0.	0.	0.	0.

Table 31: Overwrites - Steel Design - AISC 360-16, Part 6 of 7

Frame	LLRat	TotalRat	NetRat	DLAbs	SDLAndLLAbs	LLAbs	TotalAbs
				m	m	m	m
360	0.	0.	0.	0.	0.	0.	0.
361	0.	0.	0.	0.	0.	0.	0.
362	0.	0.	0.	0.	0.	0.	0.
363	0.	0.	0.	0.	0.	0.	0.
364	0.	0.	0.	0.	0.	0.	0.
365	0.	0.	0.	0.	0.	0.	0.
366	0.	0.	0.	0.	0.	0.	0.
367	0.	0.	0.	0.	0.	0.	0.
368	0.	0.	0.	0.	0.	0.	0.
369	0.	0.	0.	0.	0.	0.	0.
406	0.	0.	0.	0.	0.	0.	0.
407	0.	0.	0.	0.	0.	0.	0.
408	0.	0.	0.	0.	0.	0.	0.
409	0.	0.	0.	0.	0.	0.	0.
410	0.	0.	0.	0.	0.	0.	0.
411	0.	0.	0.	0.	0.	0.	0.
413	0.	0.	0.	0.	0.	0.	0.
415	0.	0.	0.	0.	0.	0.	0.
416	0.	0.	0.	0.	0.	0.	0.
421	0.	0.	0.	0.	0.	0.	0.
422	0.	0.	0.	0.	0.	0.	0.
423	0.	0.	0.	0.	0.	0.	0.
424	0.	0.	0.	0.	0.	0.	0.
425	0.	0.	0.	0.	0.	0.	0.
426	0.	0.	0.	0.	0.	0.	0.
430	0.	0.	0.	0.	0.	0.	0.
431	0.	0.	0.	0.	0.	0.	0.
445	0.	0.	0.	0.	0.	0.	0.
446	0.	0.	0.	0.	0.	0.	0.
448	0.	0.	0.	0.	0.	0.	0.
449	0.	0.	0.	0.	0.	0.	0.
450	0.	0.	0.	0.	0.	0.	0.
451	0.	0.	0.	0.	0.	0.	0.
459	0.	0.	0.	0.	0.	0.	0.
460	0.	0.	0.	0.	0.	0.	0.
461	0.	0.	0.	0.	0.	0.	0.
462	0.	0.	0.	0.	0.	0.	0.
465	0.	0.	0.	0.	0.	0.	0.
468	0.	0.	0.	0.	0.	0.	0.
469	0.	0.	0.	0.	0.	0.	0.
470	0.	0.	0.	0.	0.	0.	0.
471	0.	0.	0.	0.	0.	0.	0.
472	0.	0.	0.	0.	0.	0.	0.
473	0.	0.	0.	0.	0.	0.	0.
474	0.	0.	0.	0.	0.	0.	0.
475	0.	0.	0.	0.	0.	0.	0.
478	0.	0.	0.	0.	0.	0.	0.
480	0.	0.	0.	0.	0.	0.	0.
483	0.	0.	0.	0.	0.	0.	0.
484	0.	0.	0.	0.	0.	0.	0.
493	0.	0.	0.	0.	0.	0.	0.
495	0.	0.	0.	0.	0.	0.	0.
496	0.	0.	0.	0.	0.	0.	0.

Table 31: Overwrites - Steel Design - AISC 360-16, Part 6 of 7

Frame	LLRat	TotalRat	NetRat	DLAbs	SDLAndLLAbs	LLAbs	TotalAbs
				m	m	m	m
517	0.	0.	0.	0.	0.	0.	0.
526	0.	0.	0.	0.	0.	0.	0.
529	0.	0.	0.	0.	0.	0.	0.
532	0.	0.	0.	0.	0.	0.	0.
535	0.	0.	0.	0.	0.	0.	0.
538	0.	0.	0.	0.	0.	0.	0.
541	0.	0.	0.	0.	0.	0.	0.
544	0.	0.	0.	0.	0.	0.	0.
547	0.	0.	0.	0.	0.	0.	0.
550	0.	0.	0.	0.	0.	0.	0.
553	0.	0.	0.	0.	0.	0.	0.
556	0.	0.	0.	0.	0.	0.	0.
557	0.	0.	0.	0.	0.	0.	0.
558	0.	0.	0.	0.	0.	0.	0.
559	0.	0.	0.	0.	0.	0.	0.
560	0.	0.	0.	0.	0.	0.	0.
561	0.	0.	0.	0.	0.	0.	0.
562	0.	0.	0.	0.	0.	0.	0.
564	0.	0.	0.	0.	0.	0.	0.
565	0.	0.	0.	0.	0.	0.	0.
566	0.	0.	0.	0.	0.	0.	0.
567	0.	0.	0.	0.	0.	0.	0.
568	0.	0.	0.	0.	0.	0.	0.
569	0.	0.	0.	0.	0.	0.	0.
570	0.	0.	0.	0.	0.	0.	0.
571	0.	0.	0.	0.	0.	0.	0.
572	0.	0.	0.	0.	0.	0.	0.
573	0.	0.	0.	0.	0.	0.	0.
574	0.	0.	0.	0.	0.	0.	0.
575	0.	0.	0.	0.	0.	0.	0.
576	0.	0.	0.	0.	0.	0.	0.
577	0.	0.	0.	0.	0.	0.	0.
578	0.	0.	0.	0.	0.	0.	0.
581	0.	0.	0.	0.	0.	0.	0.
582	0.	0.	0.	0.	0.	0.	0.
585	0.	0.	0.	0.	0.	0.	0.
586	0.	0.	0.	0.	0.	0.	0.
587	0.	0.	0.	0.	0.	0.	0.
590	0.	0.	0.	0.	0.	0.	0.
593	0.	0.	0.	0.	0.	0.	0.
596	0.	0.	0.	0.	0.	0.	0.
599	0.	0.	0.	0.	0.	0.	0.
610	0.	0.	0.	0.	0.	0.	0.

Table 31: Overwrites - Steel Design - AISC 360-16, Part 7 of 7

Table 31: Overwrites - Steel Design - AISC 360-16, Part 7 of 7

Frame	NetAbs	SpecCamber	DCLimit
	m	m	
313	0.	0.	0.
23	0.	0.	0.
30	0.	0.	0.

Table 31: Overwrites - Steel Design - AISC 360-16, Part 7 of 7

Frame	NetAbs	SpecCamber	DCLimit
	m	m	
35	0.	0.	0.
81	0.	0.	0.
85	0.	0.	0.
86	0.	0.	0.
89	0.	0.	0.
90	0.	0.	0.
91	0.	0.	0.
92	0.	0.	0.
95	0.	0.	0.
97	0.	0.	0.
98	0.	0.	0.
103	0.	0.	0.
107	0.	0.	0.
108	0.	0.	0.
109	0.	0.	0.
110	0.	0.	0.
111	0.	0.	0.
112	0.	0.	0.
125	0.	0.	0.
126	0.	0.	0.
127	0.	0.	0.
128	0.	0.	0.
131	0.	0.	0.
140	0.	0.	0.
141	0.	0.	0.
157	0.	0.	0.
172	0.	0.	0.
180	0.	0.	0.
181	0.	0.	0.
182	0.	0.	0.
183	0.	0.	0.
186	0.	0.	0.
190	0.	0.	0.
196	0.	0.	0.
197	0.	0.	0.
199	0.	0.	0.
200	0.	0.	0.
201	0.	0.	0.
202	0.	0.	0.
348	0.	0.	0.
349	0.	0.	0.
350	0.	0.	0.
351	0.	0.	0.
352	0.	0.	0.
353	0.	0.	0.
354	0.	0.	0.
355	0.	0.	0.
356	0.	0.	0.
357	0.	0.	0.
360	0.	0.	0.
361	0.	0.	0.
362	0.	0.	0.
363	0.	0.	0.

Table 31: Overwrites - Steel Design - AISC 360-16, Part 7 of 7

Frame	NetAbs	SpecCamber	DCLimit
	m	m	
364	0.	0.	0.
365	0.	0.	0.
366	0.	0.	0.
367	0.	0.	0.
368	0.	0.	0.
369	0.	0.	0.
406	0.	0.	0.
407	0.	0.	0.
408	0.	0.	0.
409	0.	0.	0.
410	0.	0.	0.
411	0.	0.	0.
413	0.	0.	0.
415	0.	0.	0.
416	0.	0.	0.
421	0.	0.	0.
422	0.	0.	0.
423	0.	0.	0.
424	0.	0.	0.
425	0.	0.	0.
426	0.	0.	0.
430	0.	0.	0.
431	0.	0.	0.
445	0.	0.	0.
446	0.	0.	0.
448	0.	0.	0.
449	0.	0.	0.
450	0.	0.	0.
451	0.	0.	0.
459	0.	0.	0.
460	0.	0.	0.
461	0.	0.	0.
462	0.	0.	0.
465	0.	0.	0.
468	0.	0.	0.
469	0.	0.	0.
470	0.	0.	0.
471	0.	0.	0.
472	0.	0.	0.
473	0.	0.	0.
474	0.	0.	0.
475	0.	0.	0.
478	0.	0.	0.
480	0.	0.	0.
483	0.	0.	0.
484	0.	0.	0.
493	0.	0.	0.
495	0.	0.	0.
496	0.	0.	0.
517	0.	0.	0.
526	0.	0.	0.
529	0.	0.	0.
532	0.	0.	0.

Table 31: Overwrites - Steel Design - AISC 360-16, Part 7 of 7

Frame	NetAbs	SpecCamber	DCLimit
	m	m	
535	0.	0.	0.
538	0.	0.	0.
541	0.	0.	0.
544	0.	0.	0.
547	0.	0.	0.
550	0.	0.	0.
553	0.	0.	0.
556	0.	0.	0.
557	0.	0.	0.
558	0.	0.	0.
559	0.	0.	0.
560	0.	0.	0.
561	0.	0.	0.
562	0.	0.	0.
564	0.	0.	0.
565	0.	0.	0.
566	0.	0.	0.
567	0.	0.	0.
568	0.	0.	0.
569	0.	0.	0.
570	0.	0.	0.
571	0.	0.	0.
572	0.	0.	0.
573	0.	0.	0.
574	0.	0.	0.
575	0.	0.	0.
576	0.	0.	0.
577	0.	0.	0.
578	0.	0.	0.
581	0.	0.	0.
582	0.	0.	0.
585	0.	0.	0.
586	0.	0.	0.
587	0.	0.	0.
590	0.	0.	0.
593	0.	0.	0.
596	0.	0.	0.
599	0.	0.	0.
610	0.	0.	0.

9.2. Concrete design

Table 32: Overwrites - Concrete Design - ACI 318-19, Part 1 of 3

Table 32: Overwrites - Concrete Design - ACI 318-19, Part 1 of 3

Frame	DesignSect	FrameType	RLLF	XLMajor	XLMinor	XKMajor
509	Program Determined	Program Determined	0.	0.	0.	0.
510	Program Determined	Program Determined	0.	0.	0.	0.
511	Program Determined	Program Determined	0.	0.	0.	0.

Table 32: Overwrites - Concrete Design - ACI 318-19, Part 1 of 3

Frame	DesignSect	FrameType	RLLF	XLMajor	XLMinor	XKMajor
512	Program Determined	Program Determined	0.	0.	0.	0.
513	Program Determined	Program Determined	0.	0.	0.	0.
515	Program Determined	Program Determined	0.	0.	0.	0.
518	Program Determined	Program Determined	0.	0.	0.	0.
519	Program Determined	Program Determined	0.	0.	0.	0.
521	Program Determined	Program Determined	0.	0.	0.	0.
522	Program Determined	Program Determined	0.	0.	0.	0.
523	Program Determined	Program Determined	0.	0.	0.	0.
524	Program Determined	Program Determined	0.	0.	0.	0.
525	Program Determined	Program Determined	0.	0.	0.	0.
563	Program Determined	Program Determined	0.	0.	0.	0.

Table 32: Overwrites - Concrete Design - ACI 318-19, Part 2 of 3

Table 32: Overwrites - Concrete Design - ACI 318-19, Part 2 of 3

Frame	XKMinor	CmMajor	CmMinor	DnsMajor	DnsMinor	DsMajor	DsMinor
509	0.	0.	0.	0.	0.	0.	0.
510	0.	0.	0.	0.	0.	0.	0.
511	0.	0.	0.	0.	0.	0.	0.
512	0.	0.	0.	0.	0.	0.	0.
513	0.	0.	0.	0.	0.	0.	0.
515	0.	0.	0.	0.	0.	0.	0.
518	0.	0.	0.	0.	0.	0.	0.
519	0.	0.	0.	0.	0.	0.	0.
521	0.	0.	0.	0.	0.	0.	0.
522	0.	0.	0.	0.	0.	0.	0.
523	0.	0.	0.	0.	0.	0.	0.
524	0.	0.	0.	0.	0.	0.	0.
525	0.	0.	0.	0.	0.	0.	0.
563	0.	0.	0.	0.	0.	0.	0.

Table 32: Overwrites - Concrete Design - ACI 318-19, Part 3 of 3

Table 32: Overwrites - Concrete Design - ACI 318-19, Part 3 of 3

Frame	CTorsion	TanTheta	TorsCover m
509			
510			
511			
512			
513			
515			
518			
519			
521			
522			
523			
524			
525			
563			