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NEBRASKA KANSAS MISSOURI IOWA COLORADO ARIZONA

STRUCTURAL CALCULATIONS

Owner

Lee's Summit Library

150 NW Oldham Parkway
Lee's Summit, MO 64081



PREPARED BY:

Olsson

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GENERAL

This package contains structural calculations for the design of Lee's Summit Branch, prepared for MCPL.

DESIGN METHODOLOGY & CODE REFERENCES

This calculation was developed in accordance with the following:

International Building Code, IBC 2018
Minimum Design Loads for Building and Other Structures, ASCE 7

GENERAL REQUIREMENTS

The following design is based off Load and Resistance Factor Design (LRFD) and Allowable Stress Design (ASD) load combinations as applicable.

REGULATING BUILDING CODE

State of Nebraska Adopted Building Code

Regulating Building Code	International Building Code, IBC 2018 Edition Minimum Design Loads for Buildings & Other Structures, ASCE 7
Building Use Classification	B, Business
Building Occupancy Risk	III

DESIGN LOADS

Minimum Design Loads for Buildings & Others Structures, ASCE 7

General Site Information:

Site Address	150 NW Oldham Parkway, Lee's Summit, MO	
Site Classification	D	(ASCE 11.4.2)

DEAD LOADS

Structure Self Weight	8 psf (Assumed)

Roof Assembly & Miscellaneous

MEP	5 psf (Assumed)
EPDM Roofing Membrane	1 psf (Membrane, Fasteners & Adhesive)
Cover Board	1.5 psf for 5/8" thick board = 1 psf
4" Polyiso Insulation	0.75 psf per 1" = 3 psf
Roof Metal Decking	3 psf (3-20 gage Metal Deck + Fasteners)
Fire Sprinklers	5 psf
Total Roof Assembly Dead Load	= 5 + 3 + 1 + 3 + 3 + 5 = **20 psf**

LIVE LOADS

(ASCE Table 4-1)

Roof Live Load	20 psf
Library Stack Room	150 psf
Library Reading Rooms	60 psf
First-Floor Corridors	100 psf
Stairs and Exit Ways	100 psf

WIND LOADING

General Wind Loading Requirements:		
Basic Wind Speed	V = 117 mph	
Importance Factor	I_w = 1.0	(ASCE Table 1.5-2)
Wind Directionality Factor	K_d = 0.85	(ASCE Table 26.6-1)
Exposure Category	C	(ASCE 26.7.3)
Topographic Factor	K_{zt} = 1.0	(ASCE 26.8.2)
Pre-K/K Building Structure Type:	Low-Rise, Main Wind Force Resisting System	
Enclosure Classification	Closed	(ASCE 26.2)
Gust Effect Factor	G = 0.85	(ASCE 26.9.1)
Internal Pressure Coefficient	GC_{pi} = +0.18, -0.18	(ASCE Table 26.11-1)
Velocity Pressure Exposure Coefficient	K_z = 0.85	(ASCE Table 27.3-1)
	K_h = 0.86 (At Mean Roof Height)	(ASCE Table 27.3-1)

SNOW LOADING

General Snow Loading Requirements		
Ground Snow Load	p_g = 20 psf	(ASCE Fig. 7-1)
Exposure Factor	C_e = 1.0 (Partially Exposed)	(ASCE Table 7-2)
Thermal Factor	C_t = 1.0	(ASCE Table 7-3)
Importance Factor	I_s = 1.10	(ASCE Table 1.5-2)
Flat Roof Snow Load	$p_f = 0.7C_eC_tI_sp_g$	(ASCE 7.3-1)
	p_f = (0.7)(1.0)(1.0)(1.10)(25 psf) = 15.4 psf	
Minimum Snow Load for Low-Slope	$p_m = 20(I_s)$ = 20(1.10) = 22 psf	(ASCE 7.3.4)
Roof Slope Factor	C_s = 1.0; θ = 0°	(ASCE Fig 7-2a)
Roof Snow Load	$p_s = C_sp_f$	(ASCE 7.4-1)
	p_s = (1.0)(19.3 psf) = 19.3 psf, **use 22 psf min**	

SEISMIC LOADING

Seismic Data:	ATC Seismic Design Calculator	
Site Class	D	
Acceleration Parameter	S_s = 0.100	
Acceleration Parameter	S_1 = 0.068	
Response Acceleration Parameter	S_{DS} = 0.106	
Response Acceleration Parameter	S_{D1} = 0.109	
Seismic Design Category	B, Structure to comply with ASCE Section 1.4	
Importance Factor	I_e = 1.25	

*Structure to be analyzed for the effects of static lateral forces applied independantly in each of two orthogonal directions. (ASCE 1.4.3)

Lateral Force Resisting System:	Steel System Not Specifically Detailed for Seismic Resistance,	
Response Modification Coefficient:	R = 3	(ASCE Table 12.2-1)
Oversrength Factor:	Ω = 3	(ASCE Table 12.2-1)
Deflection Amplification Factor:	C_d = 3	(ASCE Table 12.2-1)
Redundancy Factor:	ρ = 1.0	(ASCE 12.3.4)
Seismic Response Coeeficient:	$C_s = S_{DS} / (R/I_e)$ = 0.048	(ASCE 12.8-2)

DESIGN CALCULATIONS

CODE SUMMARY

Code: International Building Code 2018

Live Loads:

Roof	0 to 200 sf:	20 psf
	200 to 600 sf:	24 - 0.02Area, but not less than 12 psf
	over 600 sf:	12 psf

Typical Floor	150 psf
Partitions	15 psf
Lobbies & first floor corridors	100 psf

Dead Loads:

Floor	80.0 psf
Roof	20.0 psf

Wind Design Data:

Ultimate Design Wind Speed	117 mph
Nominal Design Wind Speed	90.63 mph
Risk Category	III
Mean Roof Ht (h)	20.0 ft
Exposure Category	B
Enclosure Classif.	Enclosed Building
Internal pressure Coef.	+/-0.18
Directionality (Kd)	0.85

Roof Snow Loads:

Design Uniform Roof Snow load		=	22.0 psf
Flat Roof Snow Load	Pf	=	18.5 psf
Balanced Snow Load	Ps	=	18.5 psf
Ground Snow Load	Pg	=	20.0 psf
Importance Factor	I	=	1.10
Snow Exposure Factor	Ce	=	1.20
Thermal Factor	Ct	=	1.00
Sloped-roof Factor	Cs	=	1.00
Drift Surcharge load	Pd	=	
Width of Snow Drift	w	=	

Earthquake Design Data:

Risk Category		=	III
Importance Factor	I	=	1.25
Mapped spectral response acceleratio	Ss	=	10.00
	S1	=	6.80
Site Class		=	D
Spectral Response Coef.	Sds	=	0.107
	Sd1	=	0.109
Seismic Design Category		=	B
Basic Structural System		=	Structural steel systems not specifically detailed for seismic resistance
Seismic Resisting System		=	Structural steel systems not specifically detailed for seismic resistance
Design Base Shear	V	=	0.044W
Seismic Response Coef.	Cs	=	0.044
Response Modification Factor	R	=	3
Analysis Procedure		=	Equivalent Lateral-Force Analysis

CODE SUMMARY- continued

Component and cladding ultimate wind pressures

Roof	Surface Pressure (psf)							
Area	10 sf	20 sf	50 sf	100 sf	200 sf	350 sf	500 sf	1000 sf
Negative Zone 1	-34.9	-32.6	-29.6	-27.3	-25.0	-23.1	-21.9	-21.9
Negative Zone 1'	-20.1	-20.1	-20.1	-20.1	-17.3	-16.0	-16.0	-16.0
Negative Zone 2	-46.1	-43.1	-39.2	-36.2	-33.3	-30.9	-29.4	-29.4
Negative Zone 3	-62.8	-56.9	-49.1	-43.1	-37.2	-32.4	-29.4	-29.4
Positive All Zones	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
Overhang Zone 1&1'	-31.6	-31.0	-30.3	-29.7	-24.9	-21.1	-18.6	-18.6
Overhang Zone 2	-42.7	-38.8	-33.6	-29.6	-25.7	-22.5	-20.4	-20.4
Overhang Zone 3	-59.5	-52.6	-43.4	-36.5	-29.6	-24.0	-20.4	-20.4

Overhang soffit pressure equals adj wall pressure (which includes internal pressure of 3.3 psf)

	Parapet	Solid Parapet Pressure (psf)					
	Area	10 sf	20 sf	50 sf	100 sf	200 sf	500 sf
CASE A:	Zone 2 :	59.5	55.6	50.5	46.7	42.8	37.7
	Zone 3 :	76.2	69.4	60.4	53.6	46.7	37.7
CASE B :	Interior zone :	-35.1	-33.3	-31.0	-29.2	-27.4	-25.1
	Corner zone :	-40.1	-37.5	-34.0	-31.3	-28.6	-25.1

Wall	Surface Pressure (psf)			
Area	10 sf	100 sf	200 sf	500 sf
Negative Zone 4	-21.7	-18.8	-17.9	-16.7
Negative Zone 5	-26.8	-20.9	-19.1	-16.7
Positive Zone 4 & 5	20.1	17.1	16.2	16.0

Project Grid Lines

	Label	Start [ft]	End [ft]	Start [ft]	End [ft]	Start Bubble	End Bubble
1	1	0	0	-50	98.99	Yes	Yes
2	2	34.33	34.33	-50	98.99	Yes	Yes
3	3	69.33	69.33	-50	98.99	Yes	Yes
4	4	104.33	104.33	-50	98.99	Yes	Yes
5	5	139.33	139.33	-50	98.99	Yes	Yes
6	6	173.66	173.66	-50	98.99	Yes	Yes
7	7	209.99	209.99	-50	98.99	Yes	Yes
8	C	0	209.99	0	0	Yes	Yes
9	A	0	209.99	32.83	32.83	Yes	Yes
10	B	0	209.99	66.16	66.16	Yes	Yes
11	D	0	209.99	98.99	98.99	Yes	Yes
12	J	105.25	105.25	-40	98.99	Yes	Yes
13	K	121.33	121.33	-40	98.99	Yes	Yes
14	L	162.67	162.67	-40	98.99	Yes	Yes
15	M	182.33	182.33	-40	98.99	Yes	Yes
16	N	0	209.99	41.16	41.16	Yes	Yes

Project Grid Arcs

No Data to Print...

Node Coordinates

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
1	N294	0	12	165.05701	
2	N331	-7.6	12	121.33	
3	N330	-10.78	12	139.33	
4	N300	-3.8	12	99.75	
5	N301	-3.8	22.25	99.75	
6	N299	-17.5	12	139.33	
7	N303	-17.5	12	121.33	
8	N302	-17.5	12	161.99	
9	N293	-6.34	16	121.33	
10	N278	-10.9	12	239.35	
11	F1_N10	66.16	16	173.66	
12	F1_N12	98.99	16	209.99	
13	F1_N13	66.16	16	209.99	
14	F1_N16	0	16	205.73	Yes
15	F1_N17	-20.58	16	202.1	
16	F1_N18	-17.09	16	182.33	Yes
17	F1_N27	81.66	16	173.66	Yes
18	F1_N28	98.99	16	173.66	
19	F1_N29	98.99	16	0	
20	F1_N30	0	16	0	
21	F1_N31	0	16	100.25	
22	F1_N193	41.16	16	173.66	
23	N13	66.16	0	173.66	
24	N14	98.99	0	209.99	
25	N15	66.16	0	209.99	
26	N16	0	0	205.73	
27	N17	-20.58	0	202.1	
28	N18	-17.09	0	182.33	
29	N19	41.16	0	173.66	
30	N20	81.66	0	173.66	
31	N21	98.99	0	173.66	
32	N22	98.99	0	0	
33	N23	0	0	0	
34	N24	0	0	100.25	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
35	N40	98.99	20	173.66	
36	N41	98.99	20	0	
37	N42	0	20	0	
38	N43	0	20	100.25	
39	N44	82.58	16	209.99	Yes
40	N45	53.66	16	173.66	Yes
41	F1_N1	66.16	16	34.33	
42	F1_N2	66.16	16	69.33	
43	F1_N3	32.83	16	34.33	
44	F1_N4	32.83	16	69.33	
45	F1_N5	66.16	16	104.33	
46	F1_N6	32.83	16	104.33	
47	F1_N7	66.16	16	139.33	
48	F1_N8	32.83	16	139.33	
49	F1_N9	32.83	16	173.66	
50	F1_N11	98.99	16	182.33	
51	F1_N14	32.83	16	209.99	
52	F1_N15	24.16	16	209.99	
53	F1_N19	-13.62	16	162.67	
54	F1_N20	-9.51	16	139.33	
55	F1_N22	0	16	104.33	
56	F1_N23	0	16	105.25	
57	F1_N24	0	16	121.33	
58	F1_N25	0	16	139.33	
59	F1_N32	66.16	16	0	
60	F1_N33	32.83	16	0	
61	F1_N35	-15.559741	16	173.66	
62	F1_N36	0	16	173.66	
63	F1_N37	0	16	182.33	
64	F1_N38	0	16	162.67	
65	F1_N40	32.83	16	182.33	
66	F1_N41	66.16	16	182.33	
67	F1_N42	66.16	16	39.33	
68	F1_N43	32.83	16	39.33	
69	F1_N44	32.83	16	64.33	
70	F1_N45	66.16	16	64.33	
71	F1_N46	66.16	16	109.33	
72	F1_N47	32.83	16	109.33	
73	F1_N48	32.83	16	134.33	
74	F1_N49	66.16	16	134.33	
75	F1_N50	0	16	34.33	
76	F1_N51	98.99	16	34.33	
77	F1_N52	0	16	69.33	
78	F1_N53	98.99	16	69.33	
79	F1_N54	98.99	16	104.33	
80	F1_N55	98.99	16	139.33	
81	F1_N56	66.16	16	4.9	
82	F1_N57	98.99	16	4.9	
83	F1_N58	66.16	16	9.81	
84	F1_N59	98.99	16	9.81	
85	F1_N60	66.16	16	14.71	
86	F1_N61	98.99	16	14.71	
87	F1_N62	66.16	16	19.62	
88	F1_N63	98.99	16	19.62	
89	F1_N64	66.16	16	24.52	
90	F1_N65	98.99	16	24.52	
91	F1_N66	66.16	16	29.43	
92	F1_N67	98.99	16	29.43	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
93	F1_N68	98.99	16	39.33	
94	F1_N69	66.16	16	44.33	
95	F1_N70	98.99	16	44.33	
96	F1_N71	66.16	16	49.33	
97	F1_N72	98.99	16	49.33	
98	F1_N73	66.16	16	54.33	
99	F1_N74	98.99	16	54.33	
100	F1_N75	66.16	16	59.33	
101	F1_N76	98.99	16	59.33	
102	F1_N77	98.99	16	64.33	
103	F1_N78	66.16	16	74.33	
104	F1_N79	98.99	16	74.33	
105	F1_N80	66.16	16	79.33	
106	F1_N81	98.99	16	79.33	
107	F1_N82	66.16	16	84.33	
108	F1_N83	98.99	16	84.33	
109	F1_N84	66.16	16	89.33	
110	F1_N85	98.99	16	89.33	
111	F1_N86	66.16	16	94.33	
112	F1_N87	98.99	16	94.33	
113	F1_N88	66.16	16	99.33	
114	F1_N89	98.99	16	99.33	
115	F1_N90	98.99	16	109.33	
116	F1_N91	66.16	16	114.33	
117	F1_N92	98.99	16	114.33	
118	F1_N93	66.16	16	119.33	
119	F1_N94	98.99	16	119.33	
120	F1_N95	66.16	16	124.33	
121	F1_N96	98.99	16	124.33	
122	F1_N97	66.16	16	129.33	
123	F1_N98	98.99	16	129.33	
124	F1_N99	98.99	16	134.33	
125	F1_N100	66.16	16	144.23	
126	F1_N101	98.99	16	144.23	
127	F1_N102	66.16	16	149.14	
128	F1_N103	98.99	16	149.14	
129	F1_N104	66.16	16	154.04	
130	F1_N105	98.99	16	154.04	
131	F1_N106	66.16	16	158.95	
132	F1_N107	98.99	16	158.95	
133	F1_N108	66.16	16	163.85	
134	F1_N109	98.99	16	163.85	
135	F1_N110	66.16	16	168.76	
136	F1_N111	98.99	16	168.76	
137	F1_N112	32.83	16	144.23	
138	F1_N113	32.83	16	149.14	
139	F1_N114	32.83	16	154.04	
140	F1_N115	32.83	16	158.95	
141	F1_N116	32.83	16	163.85	
142	F1_N117	32.83	16	168.76	
143	F1_N118	32.83	16	114.33	
144	F1_N119	32.83	16	119.33	
145	F1_N120	32.83	16	124.33	
146	F1_N121	32.83	16	129.33	
147	F1_N122	32.83	16	74.33	
148	F1_N123	32.83	16	79.33	
149	F1_N124	32.83	16	84.33	
150	F1_N125	32.83	16	89.33	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
151	F1_N126	32.83	16	94.33	
152	F1_N127	32.83	16	99.33	
153	F1_N128	32.83	16	44.33	
154	F1_N129	32.83	16	49.33	
155	F1_N130	32.83	16	54.33	
156	F1_N131	32.83	16	59.33	
157	F1_N132	32.83	16	4.9	
158	F1_N133	32.83	16	9.81	
159	F1_N134	32.83	16	14.71	
160	F1_N135	32.83	16	19.62	
161	F1_N136	32.83	16	24.52	
162	F1_N137	32.83	16	29.43	
163	F1_N138	0	16	4.9	
164	F1_N139	0	16	9.81	
165	F1_N140	0	16	14.71	
166	F1_N141	0	16	19.62	
167	F1_N142	0	16	24.52	
168	F1_N143	0	16	29.43	
169	F1_N144	0	16	39.33	
170	F1_N145	0	16	44.33	
171	F1_N146	0	16	49.33	
172	F1_N147	0	16	54.33	
173	F1_N148	0	16	59.33	
174	F1_N149	0	16	64.33	
175	F1_N150	0	16	74.33	
176	F1_N151	0	16	79.33	
177	F1_N152	0	16	84.33	
178	F1_N153	0	16	89.33	
179	F1_N154	0	16	94.33	
180	F1_N155	0	16	99.33	
181	F1_N156	0	16	109.33	
182	F1_N157	0	16	114.33	
183	F1_N158	0	16	119.33	
184	F1_N159	0	16	124.33	
185	F1_N160	0	16	129.33	
186	F1_N161	0	16	134.33	
187	F1_N162	0	16	144.23	
188	F1_N163	0	16	149.14	
189	F1_N164	0	16	154.04	
190	F1_N165	0	16	158.95	
191	F1_N166	0	16	163.85	
192	F1_N167	0	16	168.76	
193	F1_N168	-4.92	16	113.29	
194	F1_N169	0	16	113.29	
195	F1_N174	0	16	130.33	
196	F1_N175	-10.88	16	147.11	
197	F1_N176	0	16	147.11	
198	F1_N177	-12.25	16	154.89	
199	F1_N178	0	16	154.89	
200	F1_N179	-14.588988	16	168.16	
201	F1_N180	0	16	168.16	
202	F1_N181	-18.466935	16	190.13	
203	F1_N182	0	16	190.13	
204	F1_N183	-19.843869	16	197.93	
205	F1_N184	0	16	197.93	
206	F1_N185	0	16	191.55	
207	F1_N186	32.83	16	191.55	
208	F1_N187	0	16	200.77	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
209	F1_N188	32.83	16	200.77	
210	F1_N189	66.16	16	191.55	
211	F1_N190	66.16	16	200.77	
212	F1_N191	98.99	16	191.55	
213	F1_N192	98.99	16	200.77	
214	F1_N197	-7.923238	16	130.319996	
215	F1_N198	41.16	16	182.33	
216	N226	66.16	0	34.33	
217	N227	66.16	0	69.33	
218	N228	32.83	0	34.33	
219	N229	32.83	0	69.33	
220	N230	66.16	0	104.33	
221	N231	32.83	0	104.33	
222	N232	66.16	0	139.33	
223	N233	32.83	0	139.33	
224	N234	32.83	0	173.66	
225	N235	98.99	0	182.33	
226	N239	24.16	0	209.99	
227	N241	-13.62	0	162.67	
228	N243	-9.51	0	139.33	
229	N245	0	0	105.25	
230	N247	0	0	121.33	
231	N248	0	0	139.33	
232	N253	-14.860459	12	162.4526	
233	N255	-18.32	12	182.11	
234	N256	-21.81	12	201.88	
235	N258	-17.09	12	182.33	
236	N259	-13.62	12	162.67	
237	N260	0	12	139.33	
238	N261	-20.58	12	202.1	
239	N262	-21.81	22.25	201.88	
240	N269	-21.81	16	201.88	
241	N270	-7.6	22.25	121.33	
242	N274	-4.768489	12	105.25	
243	N276	-4.77	22.25	105.25	
244	N279	-26.66	16	236.57	Yes
245	N280	-26.66	0	236.57	
246	N281	-26.66	22.25	236.57	
247	N282	-27.89	22.25	236.35	
248	N283	-27.89	12	236.35	
249	N284	-26.66	12	236.57	
250	N285	-27.89	16	236.35	Yes
251	N287	-4.82	16	204.88	
252	N288	-10.9	0	239.35	
253	N286	-10.9	22.25	239.35	
254	N313	-23.330441	22.25	210.5	
255	N314	-23.330441	12	210.5	
256	N315	-24.850882	22.25	219.12	
257	N316	-24.850882	12	219.12	
258	N317	-26.371323	22.25	227.74	
259	N318	-26.371323	12	227.74	
260	N267	-3.5	16	105.25	
261	N268	-3.5	16	121.33	
262	N271	-3.5	0	105.25	
263	N291	-6.34	0	121.33	
264	N272	0	12	121.33	
265	N275	-3.5	15.5	105.25	
266	N277	-4.77	15.5	105.25	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
267	N296	-6.34	15.5	121.33	
268	N297	-7.6	15.5	121.33	
269	N298	-17.5	12	105.25	
270	N290	-17.5	12	109.27	
271	N304	-17.5	12	113.29	
272	N305	-17.5	12	117.31	
273	N306	-17.5	12	125.83	
274	N307	-17.5	12	130.33	
275	N308	-17.5	12	134.83	
276	N309	-17.5	12	144.99	
277	N310	-17.5	12	150.66	
278	N311	-17.5	12	156.32	
279	N312	-9.985	12	134.83	
280	N319	-9.19	12	130.33	
281	N320	-8.395	12	125.83	
282	N321	-6.892122	12	117.31	
283	N322	-6.184245	12	113.29	
284	N323	-5.476367	12	109.27	
285	N324	-11.778824	12	144.99	
286	N325	-12.779412	12	150.66	
287	N326	-13.778235	12	156.32	
288	N328	-7.75	0	105.25	
289	N329	-7.75	12	105.25	
290	N334	-9.51	12	139.33	
291	N335	-3.5	12	105.25	
292	N336	-6.34	12	121.33	
293	N292	0	12	173.66	
294	N295	0	16	165.05701	
295	N327	0	16	165.0775	
296	N332	-10.9	17	239.35	
297	N333	-27.89	17	236.35	
298	N337	-10.9	7	239.35	
299	N338	-26.644067	7	236.57	
300	N339	-10.9	2	239.35	
301	N340	-26.644067	2	236.57	
302	N342	-21.81	17	201.88	
303	N343	-10.29	16	203.915	Yes
304	N344	-18.835	16	192.215	Yes
305	N345	66.16	16	174.83	
306	N346	98.99	16	174.83	

Node Boundary Conditions

	Node Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot [k-ft/rad]	Y Rot [k-ft/rad]	Z Rot [k-ft/rad]
1	N13	Reaction	Reaction	Reaction		Reaction	
2	N14	Reaction	Reaction	Reaction		Reaction	
3	N15	Reaction	Reaction	Reaction		Reaction	
4	N16	Reaction	Reaction	Reaction		Reaction	
5	N17	Reaction	Reaction	Reaction		Reaction	
6	N18	Reaction	Reaction	Reaction		Reaction	
7	N19	Reaction	Reaction	Reaction		Reaction	
8	N226	Reaction	Reaction	Reaction		Reaction	
9	N227	Reaction	Reaction	Reaction		Reaction	
10	N228	Reaction	Reaction	Reaction		Reaction	
11	N229	Reaction	Reaction	Reaction		Reaction	
12	N230	Reaction	Reaction	Reaction		Reaction	
13	N231	Reaction	Reaction	Reaction		Reaction	
14	N232	Reaction	Reaction	Reaction		Reaction	
15	N233	Reaction	Reaction	Reaction		Reaction	

Node Boundary Conditions (Continued)

	Node Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot [k-ft/rad]	Y Rot [k-ft/rad]	Z Rot [k-ft/rad]
16	N234	Reaction	Reaction	Reaction		Reaction	
17	N235	Reaction	Reaction	Reaction		Reaction	
18	N239	Reaction	Reaction	Reaction		Reaction	
19	N241	Reaction	Reaction	Reaction		Reaction	
20	N243	Reaction	Reaction	Reaction		Reaction	
21	N245	Reaction	Reaction	Reaction		Reaction	
22	N247	Reaction	Reaction	Reaction		Reaction	
23	N248	Reaction	Reaction	Reaction		Reaction	
24	N280	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
25	N288	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
26	N271	Reaction	Reaction	Reaction		Reaction	
27	N291	Reaction	Reaction	Reaction		Reaction	
28	N328	Reaction	Reaction	Reaction		Reaction	

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	Yield [ksi]	Ry	Fu [ksi]	Rt
1	A992	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	0.3	0.65	0.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	0.3	0.65	0.527	42	1.4	58	1.3
5	A500 Gr.B RECT	29000	11154	0.3	0.65	0.527	46	1.4	58	1.3
6	A500 Gr.C RND	29000	11154	0.3	0.65	0.527	46	1.4	62	1.3
7	A500 Gr.C RECT	29000	11154	0.3	0.65	0.527	50	1.4	62	1.3
8	A53 Gr.B	29000	11154	0.3	0.65	0.49	35	1.6	60	1.2
9	A1085	29000	11154	0.3	0.65	0.49	50	1.4	65	1.3
10	A913 Gr.65	29000	11154	0.3	0.65	0.49	65	1.1	80	1.1

Cold Formed Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	Yield [ksi]	Fu [ksi]
1	A653 SS Gr33	29500	11346	0.3	0.65	0.49	33	45
2	A653 SS Gr50/1	29500	11346	0.3	0.65	0.49	50	65

Wood Properties

	Label	Type	Database	Species	Grade	Cm	Emod	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]
1	DF	Solid Sawn	Visually Graded	Douglas Fir-Larch	No.1		1	0.3	0.3	0.035
2	SP	Solid Sawn	Visually Graded	Southern Pine	No.1		1	0.3	0.3	0.035
3	HF	Solid Sawn	Visually Graded	Hem-Fir	No.1		1	0.3	0.3	0.035
4	SPF	Solid Sawn	Visually Graded	Spruce-Pine-fir	No.1		1	0.3	0.3	0.035
5	24F-1.8E DF Balanced	Glulam	NDS Table 5A	24F-1.8E_DF_BAL	na		1	0.3	0.3	0.035
6	24F-1.8E DF Unbalanced	Glulam	NDS Table 5A	24F-1.8E_DF_UNBAL	na		1	0.3	0.3	0.035
7	24F-1.8E SP Balanced	Glulam	NDS Table 5A	24F-1.8E_SP_BAL	na		1	0.3	0.3	0.035
8	24F-1.8E SP Unbalanced	Glulam	NDS Table 5A	24F-1.8E_SP_UNBAL	na		1	0.3	0.3	0.035
9	1.3E-1600F_VERSALAM	SCL	Boise Cascade	1.3E-1600F_VERSALAM	na		1	0.3	0.3	0.035
10	1.35E LSL_SolidStart	SCL	Louisiana Pacific	1.35E LSL_SolidStart	na		1	0.3	0.3	0.035
11	1.3E_RIGIDLAM LVL	SCL	Roseburg Forest Products	1.3E_RIGIDLAM LVL	na		1	0.3	0.3	0.035
12	2.0E_DF Parallam PSL	SCL	TrusJoist	2.0E_DF Parallam PSL	na		1	0.3	0.3	0.035
13	LVL_PRL_1.5E_2250F	Custom	N/A	LVL_PRL_1.5E_2250F	na		1	0.3	0.3	0.035
14	LVL_Microlam_1.9E_2600F	Custom	N/A	LVL_Microllam_1.9E_2600F	na		1	0.3	0.3	0.035
15	PSL_Parallam_2.0E_2900F	Custom	N/A	PSL_Parallam_2.0E_2900F	na		1	0.3	0.3	0.035
16	LSL_TimberStrand_1.55E_2325F	Custom	N/A	LSL_TimberStrand_1.55E_2325F	na		1	0.3	0.3	0.035

Concrete Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	f'c [ksi]	Lambda	Flex Steel [ksi]	Shear Steel [ksi]
1	Conc3000NW	3156	1372	0.15	0.6	0.145	3	1	60	60
2	Conc3500NW	3409	1482	0.15	0.6	0.145	3.5	1	60	60
3	Conc4000NW	3644	1584	0.15	0.6	0.145	4	1	60	60
4	Conc3000LW	2085	907	0.15	0.6	0.11	3	0.75	60	60
5	Conc3500LW	2252	979	0.15	0.6	0.11	3.5	0.75	60	60
6	Conc4000LW	2408	1047	0.15	0.6	0.11	4	0.75	60	60

Masonry Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Self Weight [k/ft³]	f'm [ksi]	Flex Steel [ksi]	Shear Steel [ksi]
1	Concrete Matl	1350	540	0.25	0.6	Custom	1.5	60	60
2	Clay Matl	1050	420	0.25	0.6	Custom	1.5	60	60
3	Gen Masonry	1050	420	0.25	0.6	0.08	1.5	60	60

Aluminum Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	Table B.4	kt	Ftu [ksi]	Fty [ksi]	Fcy [ksi]	Fsu [ksi]	Ct
1	3003-H14	10100	3787.5	0.33	1.3	0.173	Table B.4-1	1	19	16	13	12	141
2	6061-T6	10100	3787.5	0.33	1.3	0.173	Table B.4-2	1	38	35	35	24	141
3	6063-T5	10100	3787.5	0.33	1.3	0.173	Table B.4-2	1	22	16	16	13	141
4	6063-T6	10100	3787.5	0.33	1.3	0.173	Table B.4-2	1	30	25	25	19	141
5	5052-H34	10200	3787.5	0.33	1.3	0.173	Table B.4-1	1	34	26	24	20	141
6	6061-T6 W	10100	3787.5	0.33	1.3	0.173	Table B.4-1	1	24	15	15	15	141

Stainless Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	n	Yield [ksi]	Fu [ksi]
1	A276 S316	28000	10780	0.3	0.93	0.5	5.6	30	75
2	A276 S321	29000	11165	0.3	0.73	0.48	5.6	65	94
3	A276 S304	28000	10780	0.3	0.93	0.49	5.6	30	75

General Materials Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	Plate Methodology
1	gen_Conc3NW	3155	1372	0.15	0.6	0.251	Isotropic
2	gen_Conc4NW	3644	1584	0.15	0.6	0.251	Isotropic
3	gen_Conc3LW	2085	906	0.15	0.6	0.19	Isotropic
4	gen_Conc4LW	2408	1047	0.15	0.6	0.19	Isotropic
5	gen_Alum	10100	4077	0.3	1.29	0.299	Isotropic
6	gen_Steel	29000	11154	0.3	0.65	0.847	Isotropic
7	gen_Plywood	1800	38	0	0.3	0.06	Isotropic
8	RIGID	1e+06		0.3	0	0	Isotropic
9	gen_Ortho	N/A	N/A	N/A	0.65	0.847	Orthotropic

Custom Wood Properties

	Label	Fb	Ft	Fv	Fc	E	E05	Type
1	LVL_PRL_1.5E_2250F	2.25	1.5	0.22	1.95	1500	0.5	SCL
2	LVL_PRL_2.0E_2900F	2.9	1.9	0.285	2.75	2000	0.5	SCL
3	LVL_Microllam_1.9E_2600F	2.6	1.555	0.285	2.51	1900	0.5	SCL
4	PSL_Parallam_2.0E_2900F	2.9	2.025	0.29	2.9	2000	0.5	SCL
5	PSL_Parallam_1.8E	2.4	1.755	0.18	2.5	1800	0.5	SCL
6	LSL_TimberStrand_1.55E_2325F	2.325	1.07	0.31	2.05	1550	0.5	SCL
7	LSL_TimberStrand_1.3E_1700F	1.7	1.075	0.4	1.4	1300	0.5	SCL

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in²]	Iyy [in⁴]	Izz [in⁴]	J [in⁴]
1	HR1	W10X33	Beam	None	A992	Typical	9.71	36.6	171	0.583

Cold Formed Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in²]	Iyy [in⁴]	Izz [in⁴]	J [in⁴]
1	CF1	8CU1.25X057	Beam	None	A653 SS Gr33	Typical	0.581	0.057	4.41	0.00063

Wood Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in²]	Iyy [in⁴]	Izz [in⁴]	J [in⁴]
1	WOOD1	2X6	Beam	None	DF	Typical	8.25	1.547	20.797	5.125

Concrete Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in²]	Iyy [in⁴]	Izz [in⁴]	J [in⁴]
1	CONC1	CRECT12X8	Beam	None	Conc3000NW	Typical	96	512	1152	1187.84

Aluminum Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in²]	Iyy [in⁴]	Izz [in⁴]	J [in⁴]
1	AL1	AAI3X1.64	Beam	None	3003-H14	Typical	1.39	0.522	2.24	0.019

Stainless Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in²]	Iyy [in⁴]	Izz [in⁴]	J [in⁴]
1	SS1	W10x33_SS	Beam	None	A276 S316	Typical	9.71	36.6	171	0.583

General Section Sets

	Label	Shape	Type	Material	Area [in²]	Iyy [in⁴]	Izz [in⁴]	J [in⁴]
1	GEN1	RE4X4	Beam	gen_Conc3NW	16	21.333	21.333	31.573
2	RIGID		None	RIGID	1e+06	1e+06	1e+06	1e+06

Member Primary Data

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
1	F1_G19	F1_N18	F1_N17		W16X40	Beam	None	A992	Typical
2	F1_G20	F1_N17	F1_N16		W16X40	Beam	None	A992	Typical
3	F1_G32	F1_N13	F1_N12		W16X40	Beam	None	A992	Typical
4	F1_G158	F1_N10	F1_N193		W16X40	Beam	None	A992	Typical
5	(B-6)_L1	N13	F1_N10		HSS6X6X6	Column	Tube	A500 Gr.B RECT	Typical
6	(D-7)_L1	N14	F1_N12		HSS6X6X6	Column	Tube	A500 Gr.B RECT	Typical
7	(B-7)_L1	N15	F1_N13		HSS6X6X6	Column	Tube	A500 Gr.B RECT	Typical
8	C16_L1	N16	F1_N16		HSS6X6X6	Column	Tube	A500 Gr.B RECT	Typical
9	C17_L1	N17	F1_N17	170	HSS12X8X6	Column	Tube	A500 Gr.B RECT	Typical
10	C18_L1	N18	F1_N18	170	HSS12X8X6	Column	Tube	A500 Gr.B RECT	Typical
11	(N-6)_L1	N19	F1_N193		HSS6X6X6	Column	Tube	A500 Gr.B RECT	Typical
12	M12	F1_N17	N16		HSS3X3X6	VBrace	Tube	A500 Gr.C RECT	Typical
13	M13	F1_N16	N17		HSS3X3X6	VBrace	Tube	A500 Gr.C RECT	Typical
14	M14	N17	F1_N18		HSS3X3X6	VBrace	Tube	A36 Gr.36	Typical
15	M15	N18	F1_N17		HSS3X3X6	VBrace	Tube	A36 Gr.36	Typical
16	M16	N15	N44		HSS6X6X6	VBrace	Tube	A500 Gr.B RECT	Typical
17	M17	N44	N14		HSS6X6X6	VBrace	Tube	A500 Gr.B RECT	Typical
18	M18	N13	N45		HSS6X6X6	VBrace	Tube	A500 Gr.B RECT	Typical
19	M19	N45	N19		HSS6X6X6	VBrace	Tube	A500 Gr.B RECT	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
20	F1_G1	F1_N32	F1_N42		W21X50	Beam	None	A992	Typical
21	F1_G3	F1_N45	F1_N46		W18X40	Beam	None	A992	Typical
22	F1_G5	F1_N49	F1_N10		W21X50	Beam	None	A992	Typical
23	F1_G6	F1_N33	F1_N43		W21X50	Beam	None	A992	Typical
24	F1_G8	F1_N44	F1_N47		W18X40	Beam	None	A992	Typical
25	F1_G10	F1_N48	F1_N9		W21X50	Beam	None	A992	Typical
26	F1_G11	F1_N31	F1_N23		W14X22	Beam	Wide Flange	A992	Typical
27	F1_G12	F1_N23	F1_N24		W18X35	Beam	None	A992	Typical
28	F1_G13	F1_N24	F1_N25		W18X35	Beam	None	A992	Typical
29	F1_G14	F1_N23	N267		W12X19	Beam	None	A992	Typical
30	F1_G17	F1_N20	F1_N19		W16X26	Beam	None	A992	Typical
31	F1_G18	F1_N19	F1_N18		W24X76	Beam	Wide Flange	A992	Typical
32	F1_G21	F1_N9	F1_N35		W27X146	Beam	Wide Flange	A992	Typical
33	F1_G22	F1_N25	F1_N36		W21X44	Beam	Wide Flange	A992	Typical
34	F1_G23	F1_N36	F1_N16		W24X68	Beam	None	A992	Typical
35	F1_G24	F1_N18	F1_N37		W12X19	Beam	None	A992	Typical
36	F1_G25	F1_N19	F1_N38		W12X19	Beam	None	A992	Typical
37	F1_G26	F1_N20	F1_N25		W12X19	Beam	None	A992	Typical
38	F1_G29	F1_N16	F1_N15		W16X31	Beam	None	A992	Typical
39	F1_G31	F1_N15	F1_N13		W24X76	Beam	Wide Flange	A992	Typical
40	F1_G33	F1_N12	F1_N11		W18X40	Beam	None	A992	Typical
41	F1_G34	F1_N11	F1_N28		W16X26	Beam	Wide Flange	A992	Typical
42	F1_G35	F1_N27	F1_N10		W16X26	Beam	None	A992	Typical
43	F1_G37	F1_N9	F1_N14		W24X76	Beam	Wide Flange	A992	Typical
44	F1_G38	F1_N13	F1_N10		W24X76	Beam	Wide Flange	A992	Typical
45	F1_G39	F1_N11	F1_N41		W18X35	Beam	None	A992	Typical
46	F1_G40	F1_N41	F1_N40		W18X35	Beam	Wide Flange	A992	Typical
47	F1_G41	F1_N40	F1_N37		W18X35	Beam	None	A992	Typical
48	F1_G42	F1_N42	F1_N45		W18X40	Beam	None	A992	Typical
49	F1_G43	F1_N46	F1_N49		W18X40	Beam	None	A992	Typical
50	F1_G44	F1_N43	F1_N44		W18X40	Beam	None	A992	Typical
51	F1_G45	F1_N47	F1_N48		W18X40	Beam	None	A992	Typical
52	F1_G46	F1_N50	F1_N3		W12X19	Beam	Wide Flange	A992	Typical
53	F1_G47	F1_N3	F1_N1		W12X19	Beam	Wide Flange	A992	Typical
54	F1_G48	F1_N1	F1_N51		W12X19	Beam	Wide Flange	A992	Typical
55	F1_G49	F1_N52	F1_N4		W12X19	Beam	Wide Flange	A992	Typical
56	F1_G50	F1_N4	F1_N2		W12X19	Beam	Wide Flange	A992	Typical
57	F1_G51	F1_N2	F1_N53		W12X19	Beam	Wide Flange	A992	Typical
58	F1_G52	F1_N22	F1_N6		W12X19	Beam	Wide Flange	A992	Typical
59	F1_G53	F1_N6	F1_N5		W12X19	Beam	Wide Flange	A992	Typical
60	F1_G54	F1_N5	F1_N54		W12X19	Beam	Wide Flange	A992	Typical
61	F1_G55	F1_N25	F1_N8		W12X19	Beam	Wide Flange	A992	Typical
62	F1_G56	F1_N8	F1_N7		W12X19	Beam	Wide Flange	A992	Typical
63	F1_G57	F1_N7	F1_N55		W12X19	Beam	Wide Flange	A992	Typical
64	F1_J54	F1_N56	F1_N57		W12X19	Beam	Wide Flange	A992	Typical
65	F1_J55	F1_N58	F1_N59		W12X19	Beam	Wide Flange	A992	Typical
66	F1_J56	F1_N60	F1_N61		W12X19	Beam	Wide Flange	A992	Typical
67	F1_J57	F1_N62	F1_N63		W12X19	Beam	Wide Flange	A992	Typical
68	F1_J58	F1_N64	F1_N65		W12X19	Beam	Wide Flange	A992	Typical
69	F1_J59	F1_N66	F1_N67		W12X19	Beam	Wide Flange	A992	Typical
70	F1_J60	F1_N42	F1_N68		W12X19	Beam	Wide Flange	A992	Typical
71	F1_J61	F1_N69	F1_N70		W12X19	Beam	Wide Flange	A992	Typical
72	F1_J62	F1_N71	F1_N72		W12X19	Beam	Wide Flange	A992	Typical
73	F1_J63	F1_N73	F1_N74		W12X19	Beam	Wide Flange	A992	Typical
74	F1_J64	F1_N75	F1_N76		W12X19	Beam	Wide Flange	A992	Typical
75	F1_J65	F1_N45	F1_N77		W12X19	Beam	Wide Flange	A992	Typical
76	F1_J66	F1_N78	F1_N79		W12X19	Beam	Wide Flange	A992	Typical
77	F1_J67	F1_N80	F1_N81		W12X19	Beam	Wide Flange	A992	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
78	F1_J68	F1_N82	F1_N83		W12X19	Beam	Wide Flange	A992	Typical
79	F1_J69	F1_N84	F1_N85		W12X19	Beam	Wide Flange	A992	Typical
80	F1_J70	F1_N86	F1_N87		W12X19	Beam	Wide Flange	A992	Typical
81	F1_J71	F1_N88	F1_N89		W12X19	Beam	Wide Flange	A992	Typical
82	F1_J72	F1_N46	F1_N90		W12X19	Beam	Wide Flange	A992	Typical
83	F1_J73	F1_N91	F1_N92		W12X19	Beam	Wide Flange	A992	Typical
84	F1_J74	F1_N93	F1_N94		W12X19	Beam	Wide Flange	A992	Typical
85	F1_J75	F1_N95	F1_N96		W12X19	Beam	Wide Flange	A992	Typical
86	F1_J76	F1_N97	F1_N98		W12X19	Beam	Wide Flange	A992	Typical
87	F1_J77	F1_N49	F1_N99		W12X19	Beam	Wide Flange	A992	Typical
88	F1_J78	F1_N100	F1_N101		W12X19	Beam	Wide Flange	A992	Typical
89	F1_J79	F1_N102	F1_N103		W12X19	Beam	Wide Flange	A992	Typical
90	F1_J80	F1_N104	F1_N105		W12X19	Beam	Wide Flange	A992	Typical
91	F1_J81	F1_N106	F1_N107		W12X19	Beam	Wide Flange	A992	Typical
92	F1_J82	F1_N108	F1_N109		W12X19	Beam	Wide Flange	A992	Typical
93	F1_J83	F1_N110	F1_N111		W12X19	Beam	Wide Flange	A992	Typical
94	F1_J84	F1_N112	F1_N100		W12X19	Beam	Wide Flange	A992	Typical
95	F1_J85	F1_N113	F1_N102		W12X19	Beam	Wide Flange	A992	Typical
96	F1_J86	F1_N114	F1_N104		W12X19	Beam	Wide Flange	A992	Typical
97	F1_J87	F1_N115	F1_N106		W12X19	Beam	Wide Flange	A992	Typical
98	F1_J88	F1_N116	F1_N108		W12X19	Beam	Wide Flange	A992	Typical
99	F1_J89	F1_N117	F1_N110		W12X19	Beam	Wide Flange	A992	Typical
100	F1_J90	F1_N47	F1_N46		W12X19	Beam	Wide Flange	A992	Typical
101	F1_J91	F1_N118	F1_N91		W12X19	Beam	Wide Flange	A992	Typical
102	F1_J92	F1_N119	F1_N93		W12X19	Beam	Wide Flange	A992	Typical
103	F1_J93	F1_N120	F1_N95		W12X19	Beam	Wide Flange	A992	Typical
104	F1_J94	F1_N121	F1_N97		W12X19	Beam	Wide Flange	A992	Typical
105	F1_J95	F1_N48	F1_N49		W12X19	Beam	Wide Flange	A992	Typical
106	F1_J96	F1_N122	F1_N78		W12X19	Beam	Wide Flange	A992	Typical
107	F1_J97	F1_N123	F1_N80		W12X19	Beam	Wide Flange	A992	Typical
108	F1_J98	F1_N124	F1_N82		W12X19	Beam	Wide Flange	A992	Typical
109	F1_J99	F1_N125	F1_N84		W12X19	Beam	Wide Flange	A992	Typical
110	F1_J100	F1_N126	F1_N86		W12X19	Beam	Wide Flange	A992	Typical
111	F1_J101	F1_N127	F1_N88		W12X19	Beam	Wide Flange	A992	Typical
112	F1_J102	F1_N43	F1_N42		W12X19	Beam	Wide Flange	A992	Typical
113	F1_J103	F1_N128	F1_N69		W12X19	Beam	Wide Flange	A992	Typical
114	F1_J104	F1_N129	F1_N71		W12X19	Beam	Wide Flange	A992	Typical
115	F1_J105	F1_N130	F1_N73		W12X19	Beam	Wide Flange	A992	Typical
116	F1_J106	F1_N131	F1_N75		W12X19	Beam	Wide Flange	A992	Typical
117	F1_J107	F1_N44	F1_N45		W12X19	Beam	Wide Flange	A992	Typical
118	F1_J108	F1_N132	F1_N56		W12X19	Beam	Wide Flange	A992	Typical
119	F1_J109	F1_N133	F1_N58		W12X19	Beam	Wide Flange	A992	Typical
120	F1_J110	F1_N134	F1_N60		W12X19	Beam	Wide Flange	A992	Typical
121	F1_J111	F1_N135	F1_N62		W12X19	Beam	Wide Flange	A992	Typical
122	F1_J112	F1_N136	F1_N64		W12X19	Beam	Wide Flange	A992	Typical
123	F1_J113	F1_N137	F1_N66		W12X19	Beam	Wide Flange	A992	Typical
124	F1_J114	F1_N138	F1_N132		W12X19	Beam	Wide Flange	A992	Typical
125	F1_J115	F1_N139	F1_N133		W12X19	Beam	Wide Flange	A992	Typical
126	F1_J116	F1_N140	F1_N134		W12X19	Beam	Wide Flange	A992	Typical
127	F1_J117	F1_N141	F1_N135		W12X19	Beam	Wide Flange	A992	Typical
128	F1_J118	F1_N142	F1_N136		W12X19	Beam	Wide Flange	A992	Typical
129	F1_J119	F1_N143	F1_N137		W12X19	Beam	Wide Flange	A992	Typical
130	F1_J120	F1_N144	F1_N43		W12X19	Beam	Wide Flange	A992	Typical
131	F1_J121	F1_N145	F1_N128		W12X19	Beam	Wide Flange	A992	Typical
132	F1_J122	F1_N146	F1_N129		W12X19	Beam	Wide Flange	A992	Typical
133	F1_J123	F1_N147	F1_N130		W12X19	Beam	Wide Flange	A992	Typical
134	F1_J124	F1_N148	F1_N131		W12X19	Beam	Wide Flange	A992	Typical
135	F1_J125	F1_N149	F1_N44		W12X19	Beam	Wide Flange	A992	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
136	F1_J126	F1_N150	F1_N122		W12X19	Beam	Wide Flange	A992	Typical
137	F1_J127	F1_N151	F1_N123		W12X19	Beam	Wide Flange	A992	Typical
138	F1_J128	F1_N152	F1_N124		W12X19	Beam	Wide Flange	A992	Typical
139	F1_J129	F1_N153	F1_N125		W12X19	Beam	Wide Flange	A992	Typical
140	F1_J130	F1_N154	F1_N126		W12X19	Beam	Wide Flange	A992	Typical
141	F1_J131	F1_N155	F1_N127		W12X19	Beam	Wide Flange	A992	Typical
142	F1_J132	F1_N156	F1_N47		W12X19	Beam	Wide Flange	A992	Typical
143	F1_J133	F1_N157	F1_N118		W12X19	Beam	Wide Flange	A992	Typical
144	F1_J134	F1_N158	F1_N119		W12X19	Beam	Wide Flange	A992	Typical
145	F1_J135	F1_N159	F1_N120		W12X19	Beam	Wide Flange	A992	Typical
146	F1_J136	F1_N160	F1_N121		W12X19	Beam	Wide Flange	A992	Typical
147	F1_J137	F1_N161	F1_N48		W12X19	Beam	Wide Flange	A992	Typical
148	F1_J138	F1_N162	F1_N112		W12X19	Beam	Wide Flange	A992	Typical
149	F1_J139	F1_N163	F1_N113		W12X19	Beam	Wide Flange	A992	Typical
150	F1_J140	F1_N164	F1_N114		W12X19	Beam	Wide Flange	A992	Typical
151	F1_J141	F1_N165	F1_N115		W12X19	Beam	Wide Flange	A992	Typical
152	F1_J142	F1_N166	F1_N116		W12X19	Beam	Wide Flange	A992	Typical
153	F1_J143	F1_N167	F1_N117		W12X19	Beam	Wide Flange	A992	Typical
154	F1_J148	F1_N175	F1_N176		W12X19	Beam	None	A992	Typical
155	F1_J149	F1_N177	F1_N178		W12X19	Beam	None	A992	Typical
156	F1_J150	F1_N179	F1_N180		W12X19	Beam	None	A992	Typical
157	F1_J151	F1_N181	F1_N182		W12X19	Beam	None	A992	Typical
158	F1_J152	F1_N183	F1_N184		W12X19	Beam	None	A992	Typical
159	F1_J153	F1_N185	F1_N186		W18X35	Beam	Wide Flange	A992	Typical
160	F1_J154	F1_N187	F1_N188		W18X35	Beam	None	A992	Typical
161	F1_J155	F1_N186	F1_N189		W18X35	Beam	Wide Flange	A992	Typical
162	F1_J156	F1_N188	F1_N190		W18X35	Beam	Wide Flange	A992	Typical
163	F1_J157	F1_N189	F1_N191		W18X35	Beam	None	A992	Typical
164	F1_J158	F1_N190	F1_N192		W18X35	Beam	None	A992	Typical
165	F1_G159	F1_N193	F1_N9		W12X19	Beam	None	A992	Typical
166	F1_G154	F1_N20	N293		W16X26	Beam	None	A992	Typical
167	F1_G155	F1_N24	N293		W12X19	Beam	None	A992	Typical
168	F1_G157	F1_N197	F1_N174		W12X19	Beam	None	A992	Typical
169	F1_G160	F1_N193	F1_N198		W10X12	Beam	Wide Flange	A992	Typical
170	(B-2)_L1	N226	F1_N1		HSS5X5X3	Column	Tube	A500 Gr.B RECT	Typical
171	(B-3)_L1	N227	F1_N2		HSS5X5X3	Column	Tube	A500 Gr.B RECT	Typical
172	(A-2)_L1	N228	F1_N3		HSS5X5X3	Column	Tube	A500 Gr.B RECT	Typical
173	(A-3)_L1	N229	F1_N4		HSS5X5X3	Column	Tube	A500 Gr.B RECT	Typical
174	(B-4)_L1	N230	F1_N5		HSS5X5X3	Column	Tube	A500 Gr.B RECT	Typical
175	(A-4)_L1	N231	F1_N6		HSS5X5X3	Column	Tube	A500 Gr.B RECT	Typical
176	(B-5)_L1	N232	F1_N7		HSS5X5X3	Column	Tube	A500 Gr.B RECT	Typical
177	(A-5)_L1	N233	F1_N8		HSS5X5X3	Column	Tube	A500 Gr.B RECT	Typical
178	(A-6)_L1	N234	F1_N9		HSS6X6X6	Column	Tube	A500 Gr.B RECT	Typical
179	(M-D)_L1	N235	F1_N11		HSS6X6X6	Column	Tube	A500 Gr.B RECT	Typical
180	C15_L1	N239	F1_N15		HSS6X6X6	Column	Tube	A500 Gr.B RECT	Typical
181	C19_L1	N241	F1_N19	170	HSS12X8X6	Column	Tube	A500 Gr.B RECT	Typical
182	C20_L1	N243	F1_N20	170	HSS12X8X6	Column	Tube	A500 Gr.B RECT	Typical
183	(J-C)_L1	N245	F1_N23		HSS6X6X6	Column	Tube	A500 Gr.B RECT	Typical
184	(K-C)_L1	N247	F1_N24		HSS6X6X6	Column	Tube	A500 Gr.B RECT	Typical
185	(C-5)_L1	N248	F1_N25		HSS6X6X6	Column	Tube	A500 Gr.B RECT	Typical
186	M193	N330	N253		HSS12X6X6	Beam	Tube	A500 Gr.B RECT	Typical
187	M194	N253	N255		HSS12X6X6	Beam	Tube	A500 Gr.B RECT	Typical
188	M196	N255	N256		HSS12X6X6	Beam	Tube	A992	Typical
189	M197	N330	N331		HSS12X6X6	Beam	Tube	A500 Gr.B RECT	Typical
190	M198	N260	N330		HSS12X8X6	Beam	Tube	A500 Gr.B RECT	Typical
191	M199	N302	N294		HSS12X8X6	Beam	Tube	A500 Gr.C RECT	Typical
192	M200	N258	N255		HSS12X6X6	Beam	Tube	A500 Gr.B RECT	Typical
193	M201	N261	N256		HSS12X6X6	Beam	Tube	A500 Gr.B RECT	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
194	M205	N262	N256	10	HSS12X6X6	Column	Tube	A500 Gr.B RECT	Typical
195	M212	F1_N17	N269		HSS12X6X6	Beam	Tube	A500 Gr.B RECT	Typical
196	M213	N270	N331	10	HSS12X6X6	Column	Tube	A500 Gr.B RECT	Typical
197	M216	N331	N300		HSS12X6X6	Beam	Tube	A500 Gr.B RECT	Typical
198	M218	N276	N274	10	HSS12X6X6	Column	Tube	A500 Gr.B RECT	Typical
199	M220	N301	N270		HSS6X6X6	Beam	Tube	A500 Gr.B RECT	Typical
200	M223	N280	N281	80	HSS12X12X10	Column	Tube	A500 Gr.B RECT	Typical
201	M224	N282	N283	10	HSS12X12X6	Column	Tube	A500 Gr.B RECT	Typical
202	M225	N278	N283	90	HSS12X8X6	Beam	Tube	A500 Gr.B RECT	Typical
203	M229	N288	N286	80	HSS12X12X10	Column	Tube	A500 Gr.B RECT	Typical
204	M226	N286	N282	90	HSS12X8X6	Beam	Tube	A500 Gr.B RECT	Typical
205	M227	N282	N262	90	HSS12X8X6	Beam	Tube	A500 Gr.B RECT	Typical
206	M228	N283	N256	90	HSS12X8X6	Beam	Tube	A500 Gr.B RECT	Typical
207	M221	N271	N267		HSS12X8X6	Column	Tube	A500 Gr.B RECT	Typical
208	M222	N291	N293	170	HSS12X8X6	Column	Tube	A500 Gr.B RECT	Typical
209	M230	N272	N331		HSS12X8X6	Beam	Tube	A500 Gr.B RECT	Typical
210	M217	N275	N277		HSS12X6X6	Beam	Tube	A500 Gr.B RECT	Typical
211	M219	N296	N297		HSS12X6X6	Beam	Tube	A500 Gr.B RECT	Typical
212	M232	N301	N300	10	HSS12X6X6	Column	Tube	A500 Gr.B RECT	Typical
213	M233	N298	N303		HSS8X8X6	Beam	Tube	A500 Gr.C RECT	Typical
214	M234	N293	N267		W16X26	Beam	None	A992	Typical
215	M235	N303	N299		HSS8X8X6	Beam	Tube	A500 Gr.C RECT	Typical
216	M236	N299	N302		HSS8X8X6	Beam	Tube	A500 Gr.C RECT	Typical
217	M237	N312	N308		HSS8X8X6	Beam	Tube	A500 Gr.C RECT	Typical
218	M238	N319	N307		HSS8X8X6	Beam	Tube	A500 Gr.C RECT	Typical
219	M239	N320	N306		HSS8X8X6	Beam	Tube	A500 Gr.C RECT	Typical
220	M240	N321	N305		HSS8X8X6	Beam	Tube	A500 Gr.C RECT	Typical
221	M241	N322	N304		HSS8X8X6	Beam	Tube	A500 Gr.C RECT	Typical
222	M245	N323	N290		HSS12X6X6	Beam	Tube	A500 Gr.B RECT	Typical
223	M246	N324	N309		HSS8X8X6	Beam	Tube	A500 Gr.C RECT	Typical
224	M247	N325	N310		HSS8X8X6	Beam	Tube	A500 Gr.C RECT	Typical
225	M248	N326	N311		HSS8X8X6	Beam	Tube	A500 Gr.C RECT	Typical
226	M249	N328	N329		HSS6X6X6	Column	Tube	A500 Gr.B RECT	Typical
227	M250	N330	N299		HSS12X8X6	Beam	Tube	A500 Gr.C RECT	Typical
228	M251	N335	N298		HSS12X8X6	Beam	Tube	A500 Gr.C RECT	Typical
229	M252	N331	N303		HSS12X8X6	Beam	Tube	A500 Gr.C RECT	Typical
230	M253	F1_N169	F1_N168		W12X19	Beam	None	A992	Typical
231	M255	N327	N294		HSS6X6X6	Column	Tube	A500 Gr.C RECT	Typical
232	M256	N259	N327		HSS6X6X6	Column	Tube	A500 Gr.C RECT	Typical
233	M254	N332	N333	90	HSS12X8X6	Beam	Tube	A500 Gr.B RECT	Typical
234	M257	N337	N338	90	HSS12X8X6	Beam	Tube	A500 Gr.B RECT	Typical
235	M258	N339	N340	90	HSS12X8X6	Beam	Tube	A500 Gr.B RECT	Typical
236	M244	N333	N342	90	HSS12X8X6	Beam	Tube	A500 Gr.B RECT	Typical
237	M242	N346	N345		W16X26	Beam	Wide Flange	A992	Typical

Member Advanced Data

	Label	I Release	J Release	T/C Only	Physical	Deflection Ratio Options	Seismic DR
1	F1_G19	BenPIN	BenPIN		Yes	Default	None
2	F1_G20	BenPIN	BenPIN		Yes	Default	None
3	F1_G32	BenPIN	BenPIN		Yes	Default	None
4	F1_G158	BenPIN	BenPIN		Yes	Default	None
5	(B-6)_L1				Yes	** NA **	None
6	(D-7)_L1				Yes	** NA **	None
7	(B-7)_L1				Yes	** NA **	None
8	C16_L1				Yes	** NA **	None
9	C17_L1				Yes	** NA **	None
10	C18_L1				Yes	** NA **	None
11	(N-6)_L1				Yes	** NA **	None

Member Advanced Data (Continued)

	Label	I Release	J Release	T/C Only	Physical	Deflection Ratio Options	Seismic DR
12	M12	BenPIN	BenPIN	Tension Only	Yes	** NA **	None
13	M13	BenPIN	BenPIN	Tension Only	Yes	** NA **	None
14	M14	BenPIN	BenPIN	Tension Only	Yes	** NA **	None
15	M15	BenPIN	BenPIN	Tension Only	Yes	** NA **	None
16	M16	BenPIN	BenPIN		Yes	** NA **	None
17	M17	BenPIN	BenPIN		Yes	** NA **	None
18	M18	BenPIN	BenPIN		Yes	** NA **	None
19	M19	BenPIN	BenPIN		Yes	** NA **	None
20	F1_G1	BenPIN			Yes	Default	None
21	F1_G3				Yes	Default	None
22	F1_G5		BenPIN		Yes	Default	None
23	F1_G6	BenPIN			Yes	Default	None
24	F1_G8				Yes	Default	None
25	F1_G10		BenPIN		Yes	Default	None
26	F1_G11	BenPIN	BenPIN		Yes	Default	None
27	F1_G12	BenPIN	BenPIN		Yes	Default	None
28	F1_G13	BenPIN	BenPIN		Yes	Default	None
29	F1_G14	BenPIN	BenPIN		Yes	Default	None
30	F1_G17	BenPIN	BenPIN		Yes	Default	None
31	F1_G18	BenPIN	BenPIN		Yes	Default	None
32	F1_G21	BenPIN	BenPIN		Yes	Default	None
33	F1_G22	BenPIN	BenPIN		Yes	Default	None
34	F1_G23	BenPIN	BenPIN		Yes	Default	None
35	F1_G24	BenPIN	BenPIN		Yes	Default	None
36	F1_G25	BenPIN	BenPIN		Yes	Default	None
37	F1_G26	BenPIN	BenPIN		Yes	Default	None
38	F1_G29	BenPIN	BenPIN		Yes	Default	None
39	F1_G31	BenPIN	BenPIN		Yes	Default	None
40	F1_G33	BenPIN	BenPIN		Yes	Default	None
41	F1_G34	BenPIN	BenPIN		Yes	Default	None
42	F1_G35	BenPIN	BenPIN		Yes	Default	None
43	F1_G37	BenPIN	BenPIN		Yes	Default	None
44	F1_G38	BenPIN	BenPIN		Yes	Default	None
45	F1_G39	BenPIN	BenPIN		Yes	Default	None
46	F1_G40	BenPIN	BenPIN		Yes	Default	None
47	F1_G41	BenPIN	BenPIN		Yes	Default	None
48	F1_G42	BenPIN	BenPIN		Yes	Default	None
49	F1_G43	BenPIN	BenPIN		Yes	Default	None
50	F1_G44	BenPIN	BenPIN		Yes	Default	None
51	F1_G45	BenPIN	BenPIN		Yes	Default	None
52	F1_G46	BenPIN	BenPIN		Yes	Default	None
53	F1_G47	BenPIN	BenPIN		Yes	Default	None
54	F1_G48	BenPIN	BenPIN		Yes	Default	None
55	F1_G49	BenPIN	BenPIN		Yes	Default	None
56	F1_G50	BenPIN	BenPIN		Yes	Default	None
57	F1_G51	BenPIN	BenPIN		Yes	Default	None
58	F1_G52	BenPIN	BenPIN		Yes	Default	None
59	F1_G53	BenPIN	BenPIN		Yes	Default	None
60	F1_G54	BenPIN	BenPIN		Yes	Default	None
61	F1_G55	BenPIN	BenPIN		Yes	Default	None
62	F1_G56	BenPIN	BenPIN		Yes	Default	None
63	F1_G57	BenPIN	BenPIN		Yes	Default	None
64	F1_J54	BenPIN	BenPIN		Yes	Default	None
65	F1_J55	BenPIN	BenPIN		Yes	Default	None
66	F1_J56	BenPIN	BenPIN		Yes	Default	None
67	F1_J57	BenPIN	BenPIN		Yes	Default	None
68	F1_J58	BenPIN	BenPIN		Yes	Default	None
69	F1_J59	BenPIN	BenPIN		Yes	Default	None

Member Advanced Data (Continued)

	Label	I Release	J Release	T/C Only	Physical	Deflection Ratio Options	Seismic DR
70	F1_J60	BenPIN	BenPIN		Yes	Default	None
71	F1_J61	BenPIN	BenPIN		Yes	Default	None
72	F1_J62	BenPIN	BenPIN		Yes	Default	None
73	F1_J63	BenPIN	BenPIN		Yes	Default	None
74	F1_J64	BenPIN	BenPIN		Yes	Default	None
75	F1_J65	BenPIN	BenPIN		Yes	Default	None
76	F1_J66	BenPIN	BenPIN		Yes	Default	None
77	F1_J67	BenPIN	BenPIN		Yes	Default	None
78	F1_J68	BenPIN	BenPIN		Yes	Default	None
79	F1_J69	BenPIN	BenPIN		Yes	Default	None
80	F1_J70	BenPIN	BenPIN		Yes	Default	None
81	F1_J71	BenPIN	BenPIN		Yes	Default	None
82	F1_J72	BenPIN	BenPIN		Yes	Default	None
83	F1_J73	BenPIN	BenPIN		Yes	Default	None
84	F1_J74	BenPIN	BenPIN		Yes	Default	None
85	F1_J75	BenPIN	BenPIN		Yes	Default	None
86	F1_J76	BenPIN	BenPIN		Yes	Default	None
87	F1_J77	BenPIN	BenPIN		Yes	Default	None
88	F1_J78	BenPIN	BenPIN		Yes	Default	None
89	F1_J79	BenPIN	BenPIN		Yes	Default	None
90	F1_J80	BenPIN	BenPIN		Yes	Default	None
91	F1_J81	BenPIN	BenPIN		Yes	Default	None
92	F1_J82	BenPIN	BenPIN		Yes	Default	None
93	F1_J83	BenPIN	BenPIN		Yes	Default	None
94	F1_J84	BenPIN	BenPIN		Yes	Default	None
95	F1_J85	BenPIN	BenPIN		Yes	Default	None
96	F1_J86	BenPIN	BenPIN		Yes	Default	None
97	F1_J87	BenPIN	BenPIN		Yes	Default	None
98	F1_J88	BenPIN	BenPIN		Yes	Default	None
99	F1_J89	BenPIN	BenPIN		Yes	Default	None
100	F1_J90	BenPIN	BenPIN		Yes	Default	None
101	F1_J91	BenPIN	BenPIN		Yes	Default	None
102	F1_J92	BenPIN	BenPIN		Yes	Default	None
103	F1_J93	BenPIN	BenPIN		Yes	Default	None
104	F1_J94	BenPIN	BenPIN		Yes	Default	None
105	F1_J95	BenPIN	BenPIN		Yes	Default	None
106	F1_J96	BenPIN	BenPIN		Yes	Default	None
107	F1_J97	BenPIN	BenPIN		Yes	Default	None
108	F1_J98	BenPIN	BenPIN		Yes	Default	None
109	F1_J99	BenPIN	BenPIN		Yes	Default	None
110	F1_J100	BenPIN	BenPIN		Yes	Default	None
111	F1_J101	BenPIN	BenPIN		Yes	Default	None
112	F1_J102	BenPIN	BenPIN		Yes	Default	None
113	F1_J103	BenPIN	BenPIN		Yes	Default	None
114	F1_J104	BenPIN	BenPIN		Yes	Default	None
115	F1_J105	BenPIN	BenPIN		Yes	Default	None
116	F1_J106	BenPIN	BenPIN		Yes	Default	None
117	F1_J107	BenPIN	BenPIN		Yes	Default	None
118	F1_J108	BenPIN	BenPIN		Yes	Default	None
119	F1_J109	BenPIN	BenPIN		Yes	Default	None
120	F1_J110	BenPIN	BenPIN		Yes	Default	None
121	F1_J111	BenPIN	BenPIN		Yes	Default	None
122	F1_J112	BenPIN	BenPIN		Yes	Default	None
123	F1_J113	BenPIN	BenPIN		Yes	Default	None
124	F1_J114	BenPIN	BenPIN		Yes	Default	None
125	F1_J115	BenPIN	BenPIN		Yes	Default	None
126	F1_J116	BenPIN	BenPIN		Yes	Default	None
127	F1_J117	BenPIN	BenPIN		Yes	Default	None

Member Advanced Data (Continued)

	Label	I Release	J Release	T/C Only	Physical	Deflection Ratio Options	Seismic DR
128	F1_J118	BenPIN	BenPIN		Yes	Default	None
129	F1_J119	BenPIN	BenPIN		Yes	Default	None
130	F1_J120	BenPIN	BenPIN		Yes	Default	None
131	F1_J121	BenPIN	BenPIN		Yes	Default	None
132	F1_J122	BenPIN	BenPIN		Yes	Default	None
133	F1_J123	BenPIN	BenPIN		Yes	Default	None
134	F1_J124	BenPIN	BenPIN		Yes	Default	None
135	F1_J125	BenPIN	BenPIN		Yes	Default	None
136	F1_J126	BenPIN	BenPIN		Yes	Default	None
137	F1_J127	BenPIN	BenPIN		Yes	Default	None
138	F1_J128	BenPIN	BenPIN		Yes	Default	None
139	F1_J129	BenPIN	BenPIN		Yes	Default	None
140	F1_J130	BenPIN	BenPIN		Yes	Default	None
141	F1_J131	BenPIN	BenPIN		Yes	Default	None
142	F1_J132	BenPIN	BenPIN		Yes	Default	None
143	F1_J133	BenPIN	BenPIN		Yes	Default	None
144	F1_J134	BenPIN	BenPIN		Yes	Default	None
145	F1_J135	BenPIN	BenPIN		Yes	Default	None
146	F1_J136	BenPIN	BenPIN		Yes	Default	None
147	F1_J137	BenPIN	BenPIN		Yes	Default	None
148	F1_J138	BenPIN	BenPIN		Yes	Default	None
149	F1_J139	BenPIN	BenPIN		Yes	Default	None
150	F1_J140	BenPIN	BenPIN		Yes	Default	None
151	F1_J141	BenPIN	BenPIN		Yes	Default	None
152	F1_J142	BenPIN	BenPIN		Yes	Default	None
153	F1_J143	BenPIN	BenPIN		Yes	Default	None
154	F1_J148	BenPIN	BenPIN		Yes	Default	None
155	F1_J149	BenPIN	BenPIN		Yes	Default	None
156	F1_J150	BenPIN	BenPIN		Yes	Default	None
157	F1_J151	BenPIN	BenPIN		Yes	Default	None
158	F1_J152	BenPIN	BenPIN		Yes	Default	None
159	F1_J153	BenPIN	BenPIN		Yes	Default	None
160	F1_J154	BenPIN	BenPIN		Yes	Default	None
161	F1_J155	BenPIN	BenPIN		Yes	Default	None
162	F1_J156	BenPIN	BenPIN		Yes	Default	None
163	F1_J157	BenPIN	BenPIN		Yes	Default	None
164	F1_J158	BenPIN	BenPIN		Yes	Default	None
165	F1_G159	BenPIN	BenPIN		Yes	Default	None
166	F1_G154	BenPIN	BenPIN		Yes	Default	None
167	F1_G155	BenPIN	BenPIN		Yes	Default	None
168	F1_G157	BenPIN	BenPIN		Yes	Default	None
169	F1_G160	BenPIN	BenPIN		Yes	Default	None
170	(B-2)_L1		BenPIN		Yes	** NA **	None
171	(B-3)_L1		BenPIN		Yes	** NA **	None
172	(A-2)_L1		BenPIN		Yes	** NA **	None
173	(A-3)_L1		BenPIN		Yes	** NA **	None
174	(B-4)_L1		BenPIN		Yes	** NA **	None
175	(A-4)_L1		BenPIN		Yes	** NA **	None
176	(B-5)_L1		BenPIN		Yes	** NA **	None
177	(A-5)_L1		BenPIN		Yes	** NA **	None
178	(A-6)_L1				Yes	** NA **	None
179	(M-D)_L1				Yes	** NA **	None
180	C15_L1				Yes	** NA **	None
181	C19_L1				Yes	** NA **	None
182	C20_L1				Yes	** NA **	None
183	(J-C)_L1				Yes	** NA **	None
184	(K-C)_L1				Yes	** NA **	None
185	(C-5)_L1				Yes	** NA **	None

Member Advanced Data (Continued)

	Label	I Release	J Release	T/C Only	Physical	Deflection Ratio Options	Seismic DR
186	M193	BenPIN	BenPIN		Yes	Default	None
187	M194	BenPIN	BenPIN		Yes	Default	None
188	M196	BenPIN	BenPIN		Yes	Default	None
189	M197	BenPIN	BenPIN		Yes	Default	None
190	M198	BenPIN			Yes	Default	None
191	M199	BenPIN			Yes	Default	None
192	M200				Yes	Default	None
193	M201				Yes	Default	None
194	M205				Yes	** NA **	None
195	M212				Yes	Default	None
196	M213				Yes	** NA **	None
197	M216	BenPIN			Yes	Default	None
198	M218				Yes	** NA **	None
199	M220		BenPIN		Yes	Default	None
200	M223				Yes	** NA **	None
201	M224	BenPIN	BenPIN		Yes	** NA **	None
202	M225				Yes	Default	None
203	M229				Yes	** NA **	None
204	M226				Yes	Default	None
205	M227	XOOOOO	BenPIN		Yes	Default	None
206	M228	XOOOOO	BenPIN		Yes	Default	None
207	M221				Yes	** NA **	None
208	M222				Yes	** NA **	None
209	M230	BenPIN			Yes	Default	None
210	M217				Yes	Default	None
211	M219				Yes	Default	None
212	M232				Yes	** NA **	None
213	M233	BenPIN	BenPIN		Yes	Default	None
214	M234	BenPIN	BenPIN		Yes	Default	None
215	M235	BenPIN	BenPIN		Yes	Default	None
216	M236	BenPIN	BenPIN		Yes	Default	None
217	M237	BenPIN	BenPIN		Yes	Default	None
218	M238	BenPIN	BenPIN		Yes	Default	None
219	M239	BenPIN	BenPIN		Yes	Default	None
220	M240	BenPIN	BenPIN		Yes	Default	None
221	M241	BenPIN	BenPIN		Yes	Default	None
222	M245	BenPIN	BenPIN		Yes	Default	None
223	M246	BenPIN	BenPIN		Yes	Default	None
224	M247	BenPIN	BenPIN		Yes	Default	None
225	M248	BenPIN	BenPIN		Yes	Default	None
226	M249				Yes	** NA **	None
227	M250				Yes	Default	None
228	M251				Yes	Default	None
229	M252				Yes	Default	None
230	M253	BenPIN	BenPIN		Yes	Default	None
231	M255	BenPIN			Yes	** NA **	None
232	M256	BenPIN	BenPIN		Yes	** NA **	None
233	M254				Yes	Default	None
234	M257				Yes	Default	None
235	M258				Yes	Default	None
236	M244	XOOOOO	BenPIN		Yes	Default	None
237	M242	BenPIN	BenPIN		Yes	Default	None

Hot Rolled Steel Design Parameters

	Label	Shape	Length [ft]	Lcomp top [ft]	Lcomp bot [ft]	Function
1	F1_G19	W16X40	20.076	2		Lateral
2	F1_G20	W16X40	20.898	2		Lateral
3	F1_G32	W16X40	32.83	2		Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length [ft]	Lcomp top [ft]	Lcomp bot [ft]	Function
4	F1_G158	W16X40	25	2		Lateral
5	(B-6)_L1	HSS6X6X6	16			Lateral
6	(D-7)_L1	HSS6X6X6	16			Lateral
7	(B-7)_L1	HSS6X6X6	16			Lateral
8	C16_L1	HSS6X6X6	16			Lateral
9	C17_L1	HSS12X8X6	16			Lateral
10	C18_L1	HSS12X8X6	16			Lateral
11	(N-6)_L1	HSS6X6X6	16			Lateral
12	M12	HSS3X3X6	26.319			Lateral
13	M13	HSS3X3X6	26.319			Lateral
14	M14	HSS3X3X6	25.672			Lateral
15	M15	HSS3X3X6	25.672			Lateral
16	M16	HSS6X6X6	22.926	Lbyy		Lateral
17	M17	HSS6X6X6	22.919	Lbyy		Lateral
18	M18	HSS6X6X6	20.304	Lbyy		Lateral
19	M19	HSS6X6X6	20.304	Lbyy		Lateral
20	F1_G1	W21X50	39.33	2	5	Gravity
21	F1_G3	W18X40	45	2	5	Gravity
22	F1_G5	W21X50	39.33	2	5	Gravity
23	F1_G6	W21X50	39.33	2	5	Gravity
24	F1_G8	W18X40	45	2	5	Gravity
25	F1_G10	W21X50	39.33	2	5	Gravity
26	F1_G11	W14X22	5	2		Gravity
27	F1_G12	W18X35	16.08	2		Gravity
28	F1_G13	W18X35	18	2		Gravity
29	F1_G14	W12X19	3.5	2		Gravity
30	F1_G17	W16X26	23.699	2		Gravity
31	F1_G18	W24X76	19.964	2		Gravity
32	F1_G21	W27X146	48.39	2		Gravity
33	F1_G22	W21X44	34.33	2		Gravity
34	F1_G23	W24X68	32.07	2		Gravity
35	F1_G24	W12X19	17.09	2		Gravity
36	F1_G25	W12X19	13.62	2		Gravity
37	F1_G26	W12X19	9.51	2		Gravity
38	F1_G29	W16X31	24.533	2		Gravity
39	F1_G31	W24X76	42	2		Gravity
40	F1_G33	W18X40	27.66	2		Gravity
41	F1_G34	W16X26	8.67	2		Gravity
42	F1_G35	W16X26	15.5	2		Gravity
43	F1_G37	W24X76	36.33	2		Gravity
44	F1_G38	W24X76	36.33	2		Gravity
45	F1_G39	W18X35	32.83	2		Gravity
46	F1_G40	W18X35	33.33	2		Gravity
47	F1_G41	W18X35	32.83	2		Gravity
48	F1_G42	W18X40	25	2	5	Gravity
49	F1_G43	W18X40	25	2	5	Gravity
50	F1_G44	W18X40	25	2	5	Gravity
51	F1_G45	W18X40	25	2	5	Gravity
52	F1_G46	W12X19	32.83	2		Gravity
53	F1_G47	W12X19	33.33	2		Gravity
54	F1_G48	W12X19	32.83	2		Gravity
55	F1_G49	W12X19	32.83	2		Gravity
56	F1_G50	W12X19	33.33	2		Gravity
57	F1_G51	W12X19	32.83	2		Gravity
58	F1_G52	W12X19	32.83	2		Gravity
59	F1_G53	W12X19	33.33	2		Gravity
60	F1_G54	W12X19	32.83	2		Gravity
61	F1_G55	W12X19	32.83	2		Gravity

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length [ft]	Lcomp top [ft]	Lcomp bot [ft]	Function
62	F1_G56	W12X19	33.33	2		Gravity
63	F1_G57	W12X19	32.83	2		Gravity
64	F1_J54	W12X19	32.83	2		Gravity
65	F1_J55	W12X19	32.83	2		Gravity
66	F1_J56	W12X19	32.83	2		Gravity
67	F1_J57	W12X19	32.83	2		Gravity
68	F1_J58	W12X19	32.83	2		Gravity
69	F1_J59	W12X19	32.83	2		Gravity
70	F1_J60	W12X19	32.83	2		Gravity
71	F1_J61	W12X19	32.83	2		Gravity
72	F1_J62	W12X19	32.83	2		Gravity
73	F1_J63	W12X19	32.83	2		Gravity
74	F1_J64	W12X19	32.83	2		Gravity
75	F1_J65	W12X19	32.83	2		Gravity
76	F1_J66	W12X19	32.83	2		Gravity
77	F1_J67	W12X19	32.83	2		Gravity
78	F1_J68	W12X19	32.83	2		Gravity
79	F1_J69	W12X19	32.83	2		Gravity
80	F1_J70	W12X19	32.83	2		Gravity
81	F1_J71	W12X19	32.83	2		Gravity
82	F1_J72	W12X19	32.83	2		Gravity
83	F1_J73	W12X19	32.83	2		Gravity
84	F1_J74	W12X19	32.83	2		Gravity
85	F1_J75	W12X19	32.83	2		Gravity
86	F1_J76	W12X19	32.83	2		Gravity
87	F1_J77	W12X19	32.83	2		Gravity
88	F1_J78	W12X19	32.83	2		Gravity
89	F1_J79	W12X19	32.83	2		Gravity
90	F1_J80	W12X19	32.83	2		Gravity
91	F1_J81	W12X19	32.83	2		Gravity
92	F1_J82	W12X19	32.83	2		Gravity
93	F1_J83	W12X19	32.83	2		Gravity
94	F1_J84	W12X19	33.33	2		Gravity
95	F1_J85	W12X19	33.33	2		Gravity
96	F1_J86	W12X19	33.33	2		Gravity
97	F1_J87	W12X19	33.33	2		Gravity
98	F1_J88	W12X19	33.33	2		Gravity
99	F1_J89	W12X19	33.33	2		Gravity
100	F1_J90	W12X19	33.33	2		Gravity
101	F1_J91	W12X19	33.33	2		Gravity
102	F1_J92	W12X19	33.33	2		Gravity
103	F1_J93	W12X19	33.33	2		Gravity
104	F1_J94	W12X19	33.33	2		Gravity
105	F1_J95	W12X19	33.33	2		Gravity
106	F1_J96	W12X19	33.33	2		Gravity
107	F1_J97	W12X19	33.33	2		Gravity
108	F1_J98	W12X19	33.33	2		Gravity
109	F1_J99	W12X19	33.33	2		Gravity
110	F1_J100	W12X19	33.33	2		Gravity
111	F1_J101	W12X19	33.33	2		Gravity
112	F1_J102	W12X19	33.33	2		Gravity
113	F1_J103	W12X19	33.33	2		Gravity
114	F1_J104	W12X19	33.33	2		Gravity
115	F1_J105	W12X19	33.33	2		Gravity
116	F1_J106	W12X19	33.33	2		Gravity
117	F1_J107	W12X19	33.33	2		Gravity
118	F1_J108	W12X19	33.33	2		Gravity
119	F1_J109	W12X19	33.33	2		Gravity

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length [ft]	Lcomp top [ft]	Lcomp bot [ft]	Function
120	F1_J110	W12X19	33.33	2		Gravity
121	F1_J111	W12X19	33.33	2		Gravity
122	F1_J112	W12X19	33.33	2		Gravity
123	F1_J113	W12X19	33.33	2		Gravity
124	F1_J114	W12X19	32.83	2		Gravity
125	F1_J115	W12X19	32.83	2		Gravity
126	F1_J116	W12X19	32.83	2		Gravity
127	F1_J117	W12X19	32.83	2		Gravity
128	F1_J118	W12X19	32.83	2		Gravity
129	F1_J119	W12X19	32.83	2		Gravity
130	F1_J120	W12X19	32.83	2		Gravity
131	F1_J121	W12X19	32.83	2		Gravity
132	F1_J122	W12X19	32.83	2		Gravity
133	F1_J123	W12X19	32.83	2		Gravity
134	F1_J124	W12X19	32.83	2		Gravity
135	F1_J125	W12X19	32.83	2		Gravity
136	F1_J126	W12X19	32.83	2		Gravity
137	F1_J127	W12X19	32.83	2		Gravity
138	F1_J128	W12X19	32.83	2		Gravity
139	F1_J129	W12X19	32.83	2		Gravity
140	F1_J130	W12X19	32.83	2		Gravity
141	F1_J131	W12X19	32.83	2		Gravity
142	F1_J132	W12X19	32.83	2		Gravity
143	F1_J133	W12X19	32.83	2		Gravity
144	F1_J134	W12X19	32.83	2		Gravity
145	F1_J135	W12X19	32.83	2		Gravity
146	F1_J136	W12X19	32.83	2		Gravity
147	F1_J137	W12X19	32.83	2		Gravity
148	F1_J138	W12X19	32.83	2		Gravity
149	F1_J139	W12X19	32.83	2		Gravity
150	F1_J140	W12X19	32.83	2		Gravity
151	F1_J141	W12X19	32.83	2		Gravity
152	F1_J142	W12X19	32.83	2		Gravity
153	F1_J143	W12X19	32.83	2		Gravity
154	F1_J148	W12X19	10.88	2		Gravity
155	F1_J149	W12X19	12.25	2		Gravity
156	F1_J150	W12X19	14.589	2		Gravity
157	F1_J151	W12X19	18.467	2		Gravity
158	F1_J152	W12X19	19.844	2		Gravity
159	F1_J153	W18X35	32.83	2		Gravity
160	F1_J154	W18X35	32.83	2		Gravity
161	F1_J155	W18X35	33.33	2		Gravity
162	F1_J156	W18X35	33.33	2		Gravity
163	F1_J157	W18X35	32.83	2		Gravity
164	F1_J158	W18X35	32.83	2		Gravity
165	F1_G159	W12X19	8.33	2		Gravity
166	F1_G154	W16X26	18.277	2		Gravity
167	F1_G155	W12X19	6.34	2		Gravity
168	F1_G157	W12X19	7.923			Gravity
169	F1_G160	W10X12	8.67	2		Gravity
170	(B-2)_L1	HSS5X5X3	16			Gravity
171	(B-3)_L1	HSS5X5X3	16			Gravity
172	(A-2)_L1	HSS5X5X3	16			Gravity
173	(A-3)_L1	HSS5X5X3	16			Gravity
174	(B-4)_L1	HSS5X5X3	16			Gravity
175	(A-4)_L1	HSS5X5X3	16			Gravity
176	(B-5)_L1	HSS5X5X3	16			Gravity
177	(A-5)_L1	HSS5X5X3	16			Gravity

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length [ft]	Lcomp top [ft]	Lcomp bot [ft]	Function
178	(A-6)_L1	HSS6X6X6	16			Gravity
179	(M-D)_L1	HSS6X6X6	16			Gravity
180	C15_L1	HSS6X6X6	16			Gravity
181	C19_L1	HSS12X8X6	16			Gravity
182	C20_L1	HSS12X8X6	16			Gravity
183	(J-C)_L1	HSS6X6X6	16			Gravity
184	(K-C)_L1	HSS6X6X6	16			Gravity
185	(C-5)_L1	HSS6X6X6	16			Gravity
186	M193	HSS12X6X6	23.48	2		Lateral
187	M194	HSS12X6X6	19.96	2		Lateral
188	M196	HSS12X6X6	20.076	2		Lateral
189	M197	HSS12X6X6	18.279	2		Lateral
190	M198	HSS12X8X6	10.78	Lbyy		Lateral
191	M199	HSS12X8X6	17.767	Lbyy		Lateral
192	M200	HSS12X6X6	1.25	Lbyy		Lateral
193	M201	HSS12X6X6	1.25	Lbyy		Lateral
194	M205	HSS12X6X6	10.25	Lbyy		Lateral
195	M212	HSS12X6X6	1.25	Lbyy		Lateral
196	M213	HSS12X6X6	10.25	Lbyy		Lateral
197	M216	HSS12X6X6	21.912	2		Lateral
198	M218	HSS12X6X6	10.25	Lbyy		Lateral
199	M220	HSS6X6X6	21.912	Lbyy		Lateral
200	M223	HSS12X12X10	22.25			Lateral
201	M224	HSS12X12X6	10.25	Lbyy		Lateral
202	M225	HSS12X8X6	17.253	Lbyy		Lateral
203	M229	HSS12X12X10	22.25			Lateral
204	M226	HSS12X8X6	17.253	Lbyy		Lateral
205	M227	HSS12X8X6	35.002	Lbyy		Lateral
206	M228	HSS12X8X6	35.002	Lbyy		Lateral
207	M221	HSS12X8X6	16			Gravity
208	M222	HSS12X8X6	16			Gravity
209	M230	HSS12X8X6	7.6	Lbyy		Lateral
210	M217	HSS12X6X6	1.27	Lbyy		Lateral
211	M219	HSS12X6X6	1.26	Lbyy		Lateral
212	M232	HSS12X6X6	10.25	Lbyy		Lateral
213	M233	HSS8X8X6	16.08	2		Gravity
214	M234	W16X26	16.329	2		Gravity
215	M235	HSS8X8X6	18	2		Gravity
216	M236	HSS8X8X6	22.66	2		Gravity
217	M237	HSS8X8X6	7.515	Lbyy		Lateral
218	M238	HSS8X8X6	8.31	Lbyy		Lateral
219	M239	HSS8X8X6	9.105	Lbyy		Lateral
220	M240	HSS8X8X6	10.608	Lbyy		Lateral
221	M241	HSS8X8X6	11.316	Lbyy		Lateral
222	M245	HSS12X6X6	12.024	Lbyy		Lateral
223	M246	HSS8X8X6	5.721	Lbyy		Lateral
224	M247	HSS8X8X6	4.721	Lbyy		Lateral
225	M248	HSS8X8X6	3.722	Lbyy		Lateral
226	M249	HSS6X6X6	12			Gravity
227	M250	HSS12X8X6	6.72	Lbyy		Lateral
228	M251	HSS12X8X6	14	Lbyy		Lateral
229	M252	HSS12X8X6	9.9	Lbyy		Lateral
230	M253	W12X19	4.92	2		Gravity
231	M255	HSS6X6X6	4	Lbyy		Lateral
232	M256	HSS6X6X6	14.398	Lbyy		Lateral
233	M254	HSS12X8X6	17.253	Lbyy		Lateral
234	M257	HSS12X8X6	15.988	Lbyy		Lateral
235	M258	HSS12X8X6	15.988	Lbyy		Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length [ft]	Lcomp top [ft]	Lcomp bot [ft]	Function
236	M244	HSS12X8X6	35.002	Lbyy		Lateral
237	M242	W16X26	32.83	2		Gravity

Cold Formed Steel Design Parameters

No Data to Print...

Wood Design Parameters

No Data to Print...

Concrete Beam Design Parameters

No Data to Print...

Concrete Column Design Parameters

No Data to Print...

Aluminum Design Parameters

No Data to Print...

Stainless Steel Design Parameters

No Data to Print...

Member RISAConnection Properties

	Label	Shape	Start Conn	End Conn	Start Release	End Release
1	F1_G19	W16X40	Diagonal Vertical Brace	Diagonal Vertical Brace	Pinned	Pinned
2	F1_G20	W16X40	Diagonal Vertical Brace	Diagonal Vertical Brace	Pinned	Pinned
3	F1_G32	W16X40	None	None	Pinned	Pinned
4	F1_G158	W16X40	None	None	Pinned	Pinned
5	(B-6)_L1	HSS6X6X6	Base Plate with Vertical Brace	None	Fixed	Fixed
6	(D-7)_L1	HSS6X6X6	Base Plate with Vertical Brace	None	Fixed	Fixed
7	(B-7)_L1	HSS6X6X6	Base Plate with Vertical Brace	None	Fixed	Fixed
8	C16_L1	HSS6X6X6	Base Plate with Vertical Brace	None	Fixed	Fixed
9	C17_L1	HSS12X8X6	Base Plate with Vertical Brace	None	Fixed	Fixed
10	C18_L1	HSS12X8X6	Base Plate with Vertical Brace	None	Fixed	Fixed
11	(N-6)_L1	HSS6X6X6	Base Plate with Vertical Brace	None	Fixed	Fixed
12	M12	HSS3X3X6	Diagonal Vertical Brace	Base Plate with Vertical Brace	Pinned	Pinned
13	M13	HSS3X3X6	Diagonal Vertical Brace	Base Plate with Vertical Brace	Pinned	Pinned
14	M14	HSS3X3X6	Base Plate with Vertical Brace	Diagonal Vertical Brace	Pinned	Pinned
15	M15	HSS3X3X6	Base Plate with Vertical Brace	Diagonal Vertical Brace	Pinned	Pinned
16	M16	HSS6X6X6	Base Plate with Vertical Brace	Chevron Vertical Brace	Pinned	Pinned
17	M17	HSS6X6X6	Chevron Vertical Brace	Base Plate with Vertical Brace	Pinned	Pinned
18	M18	HSS6X6X6	Base Plate with Vertical Brace	Chevron Vertical Brace	Pinned	Pinned
19	M19	HSS6X6X6	Chevron Vertical Brace	Base Plate with Vertical Brace	Pinned	Pinned
20	F1_G1	W21X50	None	None	Pinned	Fixed
21	F1_G3	W18X40	None	None	Fixed	Fixed
22	F1_G5	W21X50	None	None	Fixed	Pinned
23	F1_G6	W21X50	None	None	Pinned	Fixed
24	F1_G8	W18X40	None	None	Fixed	Fixed
25	F1_G10	W21X50	None	None	Fixed	Pinned
26	F1_G11	W14X22	None	None	Pinned	Pinned
27	F1_G12	W18X35	None	None	Pinned	Pinned
28	F1_G13	W18X35	None	None	Pinned	Pinned
29	F1_G14	W12X19	None	None	Pinned	Pinned
30	F1_G17	W16X26	Col/Bm Shear Tab Shear	Col/Bm Shear Tab Shear	Pinned	Pinned
31	F1_G18	W24X76	Col/Bm Shear Tab Shear	Col/Bm Shear Tab Shear	Pinned	Pinned
32	F1_G21	W27X146	Col/Bm Shear Tab Shear	Girder/Bm Shear Tab Shear	Pinned	Pinned

Member RISAConnection Properties (Continued)

	Label	Shape	Start Conn	End Conn	Start Release	End Release
33	F1_G22	W21X44	Col/Bm Shear Tab Shear	Girder/Bm Shear Tab Shear	Pinned	Pinned
34	F1_G23	W24X68	Girder/Bm Shear Tab Shear	Col/Bm Shear Tab Shear	Pinned	Pinned
35	F1_G24	W12X19	Girder/Bm Shear Tab Shear	Girder/Bm Shear Tab Shear	Pinned	Pinned
36	F1_G25	W12X19	Girder/Bm Shear Tab Shear	Girder/Bm Shear Tab Shear	Pinned	Pinned
37	F1_G26	W12X19	Girder/Bm Shear Tab Shear	Girder/Bm Shear Tab Shear	Pinned	Pinned
38	F1_G29	W16X31	Col/Bm Shear Tab Shear	Col/Bm Shear Tab Shear	Pinned	Pinned
39	F1_G31	W24X76	Col/Bm Shear Tab Shear	Col/Bm Shear Tab Shear	Pinned	Pinned
40	F1_G33	W18X40	Col/Bm Shear Tab Shear	Col/Bm Shear Tab Shear	Pinned	Pinned
41	F1_G34	W16X26	None	None	Pinned	Pinned
42	F1_G35	W16X26	None	None	Pinned	Pinned
43	F1_G37	W24X76	Col/Bm Shear Tab Shear	Girder/Bm Shear Tab Shear	Pinned	Pinned
44	F1_G38	W24X76	Col/Bm Shear Tab Shear	Col/Bm Shear Tab Shear	Pinned	Pinned
45	F1_G39	W18X35	Girder/Bm Shear Tab Shear	Girder/Bm Shear Tab Shear	Pinned	Pinned
46	F1_G40	W18X35	Girder/Bm Shear Tab Shear	Girder/Bm Shear Tab Shear	Pinned	Pinned
47	F1_G41	W18X35	Girder/Bm Shear Tab Shear	Girder/Bm Shear Tab Shear	Pinned	Pinned
48	F1_G42	W18X40	None	None	Pinned	Pinned
49	F1_G43	W18X40	None	None	Pinned	Pinned
50	F1_G44	W18X40	None	None	Pinned	Pinned
51	F1_G45	W18X40	None	None	Pinned	Pinned
52	F1_G46	W12X19	None	None	Pinned	Pinned
53	F1_G47	W12X19	None	None	Pinned	Pinned
54	F1_G48	W12X19	None	None	Pinned	Pinned
55	F1_G49	W12X19	None	None	Pinned	Pinned
56	F1_G50	W12X19	None	None	Pinned	Pinned
57	F1_G51	W12X19	None	None	Pinned	Pinned
58	F1_G52	W12X19	None	None	Pinned	Pinned
59	F1_G53	W12X19	None	None	Pinned	Pinned
60	F1_G54	W12X19	None	None	Pinned	Pinned
61	F1_G55	W12X19	None	None	Pinned	Pinned
62	F1_G56	W12X19	None	None	Pinned	Pinned
63	F1_G57	W12X19	None	None	Pinned	Pinned
64	F1_J54	W12X19	None	None	Pinned	Pinned
65	F1_J55	W12X19	None	None	Pinned	Pinned
66	F1_J56	W12X19	None	None	Pinned	Pinned
67	F1_J57	W12X19	None	None	Pinned	Pinned
68	F1_J58	W12X19	None	None	Pinned	Pinned
69	F1_J59	W12X19	None	None	Pinned	Pinned
70	F1_J60	W12X19	None	None	Pinned	Pinned
71	F1_J61	W12X19	None	None	Pinned	Pinned
72	F1_J62	W12X19	None	None	Pinned	Pinned
73	F1_J63	W12X19	None	None	Pinned	Pinned
74	F1_J64	W12X19	None	None	Pinned	Pinned
75	F1_J65	W12X19	None	None	Pinned	Pinned
76	F1_J66	W12X19	None	None	Pinned	Pinned
77	F1_J67	W12X19	None	None	Pinned	Pinned
78	F1_J68	W12X19	None	None	Pinned	Pinned
79	F1_J69	W12X19	None	None	Pinned	Pinned
80	F1_J70	W12X19	None	None	Pinned	Pinned
81	F1_J71	W12X19	None	None	Pinned	Pinned
82	F1_J72	W12X19	None	None	Pinned	Pinned
83	F1_J73	W12X19	None	None	Pinned	Pinned
84	F1_J74	W12X19	None	None	Pinned	Pinned
85	F1_J75	W12X19	None	None	Pinned	Pinned
86	F1_J76	W12X19	None	None	Pinned	Pinned
87	F1_J77	W12X19	None	None	Pinned	Pinned
88	F1_J78	W12X19	None	None	Pinned	Pinned
89	F1_J79	W12X19	None	None	Pinned	Pinned
90	F1_J80	W12X19	None	None	Pinned	Pinned

Member RISAConnection Properties (Continued)

	Label	Shape	Start Conn	End Conn	Start Release	End Release
91	F1_J81	W12X19	None	None	Pinned	Pinned
92	F1_J82	W12X19	None	None	Pinned	Pinned
93	F1_J83	W12X19	None	None	Pinned	Pinned
94	F1_J84	W12X19	None	None	Pinned	Pinned
95	F1_J85	W12X19	None	None	Pinned	Pinned
96	F1_J86	W12X19	None	None	Pinned	Pinned
97	F1_J87	W12X19	None	None	Pinned	Pinned
98	F1_J88	W12X19	None	None	Pinned	Pinned
99	F1_J89	W12X19	None	None	Pinned	Pinned
100	F1_J90	W12X19	None	None	Pinned	Pinned
101	F1_J91	W12X19	None	None	Pinned	Pinned
102	F1_J92	W12X19	None	None	Pinned	Pinned
103	F1_J93	W12X19	None	None	Pinned	Pinned
104	F1_J94	W12X19	None	None	Pinned	Pinned
105	F1_J95	W12X19	None	None	Pinned	Pinned
106	F1_J96	W12X19	None	None	Pinned	Pinned
107	F1_J97	W12X19	None	None	Pinned	Pinned
108	F1_J98	W12X19	None	None	Pinned	Pinned
109	F1_J99	W12X19	None	None	Pinned	Pinned
110	F1_J100	W12X19	None	None	Pinned	Pinned
111	F1_J101	W12X19	None	None	Pinned	Pinned
112	F1_J102	W12X19	None	None	Pinned	Pinned
113	F1_J103	W12X19	None	None	Pinned	Pinned
114	F1_J104	W12X19	None	None	Pinned	Pinned
115	F1_J105	W12X19	None	None	Pinned	Pinned
116	F1_J106	W12X19	None	None	Pinned	Pinned
117	F1_J107	W12X19	None	None	Pinned	Pinned
118	F1_J108	W12X19	None	None	Pinned	Pinned
119	F1_J109	W12X19	None	None	Pinned	Pinned
120	F1_J110	W12X19	None	None	Pinned	Pinned
121	F1_J111	W12X19	None	None	Pinned	Pinned
122	F1_J112	W12X19	None	None	Pinned	Pinned
123	F1_J113	W12X19	None	None	Pinned	Pinned
124	F1_J114	W12X19	None	None	Pinned	Pinned
125	F1_J115	W12X19	None	None	Pinned	Pinned
126	F1_J116	W12X19	None	None	Pinned	Pinned
127	F1_J117	W12X19	None	None	Pinned	Pinned
128	F1_J118	W12X19	None	None	Pinned	Pinned
129	F1_J119	W12X19	None	None	Pinned	Pinned
130	F1_J120	W12X19	None	None	Pinned	Pinned
131	F1_J121	W12X19	None	None	Pinned	Pinned
132	F1_J122	W12X19	None	None	Pinned	Pinned
133	F1_J123	W12X19	None	None	Pinned	Pinned
134	F1_J124	W12X19	None	None	Pinned	Pinned
135	F1_J125	W12X19	None	None	Pinned	Pinned
136	F1_J126	W12X19	None	None	Pinned	Pinned
137	F1_J127	W12X19	None	None	Pinned	Pinned
138	F1_J128	W12X19	None	None	Pinned	Pinned
139	F1_J129	W12X19	None	None	Pinned	Pinned
140	F1_J130	W12X19	None	None	Pinned	Pinned
141	F1_J131	W12X19	None	None	Pinned	Pinned
142	F1_J132	W12X19	None	None	Pinned	Pinned
143	F1_J133	W12X19	None	None	Pinned	Pinned
144	F1_J134	W12X19	None	None	Pinned	Pinned
145	F1_J135	W12X19	None	None	Pinned	Pinned
146	F1_J136	W12X19	None	None	Pinned	Pinned
147	F1_J137	W12X19	None	None	Pinned	Pinned
148	F1_J138	W12X19	None	None	Pinned	Pinned

Member RISAConnection Properties (Continued)

	Label	Shape	Start Conn	End Conn	Start Release	End Release
149	F1_J139	W12X19	None	None	Pinned	Pinned
150	F1_J140	W12X19	None	None	Pinned	Pinned
151	F1_J141	W12X19	None	None	Pinned	Pinned
152	F1_J142	W12X19	None	None	Pinned	Pinned
153	F1_J143	W12X19	None	None	Pinned	Pinned
154	F1_J148	W12X19	Girder/Bm Shear Tab Shear	Girder/Bm Shear Tab Shear	Pinned	Pinned
155	F1_J149	W12X19	Girder/Bm Shear Tab Shear	Girder/Bm Shear Tab Shear	Pinned	Pinned
156	F1_J150	W12X19	Girder/Bm Shear Tab Shear	Girder/Bm Shear Tab Shear	Pinned	Pinned
157	F1_J151	W12X19	Girder/Bm Shear Tab Shear	Girder/Bm Shear Tab Shear	Pinned	Pinned
158	F1_J152	W12X19	Girder/Bm Shear Tab Shear	Girder/Bm Shear Tab Shear	Pinned	Pinned
159	F1_J153	W18X35	Girder/Bm Shear Tab Shear	Girder/Bm Shear Tab Shear	Pinned	Pinned
160	F1_J154	W18X35	Girder/Bm Shear Tab Shear	Girder/Bm Shear Tab Shear	Pinned	Pinned
161	F1_J155	W18X35	Girder/Bm Shear Tab Shear	Girder/Bm Shear Tab Shear	Pinned	Pinned
162	F1_J156	W18X35	Girder/Bm Shear Tab Shear	Girder/Bm Shear Tab Shear	Pinned	Pinned
163	F1_J157	W18X35	Girder/Bm Shear Tab Shear	Girder/Bm Shear Tab Shear	Pinned	Pinned
164	F1_J158	W18X35	Girder/Bm Shear Tab Shear	Girder/Bm Shear Tab Shear	Pinned	Pinned
165	F1_G159	W12X19	None	None	Pinned	Pinned
166	F1_G154	W16X26	Col/Bm Shear Tab Shear	Col/Bm Shear Tab Shear	Pinned	Pinned
167	F1_G155	W12X19	None	None	Pinned	Pinned
168	F1_G157	W12X19	Girder/Bm Shear Tab Shear	Girder/Bm Shear Tab Shear	Pinned	Pinned
169	F1_G160	W10X12	None	None	Pinned	Pinned
170	(B-2)_L1	HSS5X5X3	None	None	Fixed	Pinned
171	(B-3)_L1	HSS5X5X3	None	None	Fixed	Pinned
172	(A-2)_L1	HSS5X5X3	None	None	Fixed	Pinned
173	(A-3)_L1	HSS5X5X3	None	None	Fixed	Pinned
174	(B-4)_L1	HSS5X5X3	None	None	Fixed	Pinned
175	(A-4)_L1	HSS5X5X3	None	None	Fixed	Pinned
176	(B-5)_L1	HSS5X5X3	None	None	Fixed	Pinned
177	(A-5)_L1	HSS5X5X3	None	None	Fixed	Pinned
178	(A-6)_L1	HSS6X6X6	Single Column Base Plate	None	Fixed	Fixed
179	(M-D)_L1	HSS6X6X6	Single Column Base Plate	None	Fixed	Fixed
180	C15_L1	HSS6X6X6	Single Column Base Plate	None	Fixed	Fixed
181	C19_L1	HSS12X8X6	Single Column Base Plate	None	Fixed	Fixed
182	C20_L1	HSS12X8X6	Single Column Base Plate	None	Fixed	Fixed
183	(J-C)_L1	HSS6X6X6	Single Column Base Plate	None	Fixed	Fixed
184	(K-C)_L1	HSS6X6X6	None	None	Fixed	Fixed
185	(C-5)_L1	HSS6X6X6	Single Column Base Plate	None	Fixed	Fixed
186	M193	HSS12X6X6	None	None	Pinned	Pinned
187	M194	HSS12X6X6	None	None	Pinned	Pinned
188	M196	HSS12X6X6	None	None	Pinned	Pinned
189	M197	HSS12X6X6	None	None	Pinned	Pinned
190	M198	HSS12X8X6	None	None	Pinned	Fixed
191	M199	HSS12X8X6	None	None	Pinned	Fixed
192	M200	HSS12X6X6	None	None	Fixed	Fixed
193	M201	HSS12X6X6	None	None	Fixed	Fixed
194	M205	HSS12X6X6	None	None	Fixed	Fixed
195	M212	HSS12X6X6	None	None	Fixed	Fixed
196	M213	HSS12X6X6	None	None	Fixed	Fixed
197	M216	HSS12X6X6	None	None	Pinned	Fixed
198	M218	HSS12X6X6	None	None	Fixed	Fixed
199	M220	HSS6X6X6	None	None	Fixed	Pinned
200	M223	HSS12X12X10	Single Column Base Plate	None	Fixed	Fixed
201	M224	HSS12X12X6	None	None	Pinned	Pinned
202	M225	HSS12X8X6	None	None	Fixed	Fixed
203	M229	HSS12X12X10	Single Column Base Plate	None	Fixed	Fixed
204	M226	HSS12X8X6	None	None	Fixed	Fixed
205	M227	HSS12X8X6	None	None	Fixed	Pinned
206	M228	HSS12X8X6	None	None	Fixed	Pinned

Member RISAConnection Properties (Continued)

	Label	Shape	Start Conn	End Conn	Start Release	End Release
207	M221	HSS12X8X6	Single Column Base Plate	None	Fixed	Fixed
208	M222	HSS12X8X6	None	None	Fixed	Fixed
209	M230	HSS12X8X6	None	None	Pinned	Fixed
210	M217	HSS12X6X6	None	None	Fixed	Fixed
211	M219	HSS12X6X6	None	None	Fixed	Fixed
212	M232	HSS12X6X6	None	None	Fixed	Fixed
213	M233	HSS8X8X6	None	None	Pinned	Pinned
214	M234	W16X26	Col/Bm Shear Tab Shear	Col/Bm Shear Tab Shear	Pinned	Pinned
215	M235	HSS8X8X6	None	None	Pinned	Pinned
216	M236	HSS8X8X6	None	None	Pinned	Pinned
217	M237	HSS8X8X6	None	None	Pinned	Pinned
218	M238	HSS8X8X6	None	None	Pinned	Pinned
219	M239	HSS8X8X6	None	None	Pinned	Pinned
220	M240	HSS8X8X6	None	None	Pinned	Pinned
221	M241	HSS8X8X6	None	None	Pinned	Pinned
222	M245	HSS12X6X6	None	None	Pinned	Pinned
223	M246	HSS8X8X6	None	None	Pinned	Pinned
224	M247	HSS8X8X6	None	None	Pinned	Pinned
225	M248	HSS8X8X6	None	None	Pinned	Pinned
226	M249	HSS6X6X6	Single Column Base Plate	None	Fixed	Fixed
227	M250	HSS12X8X6	None	None	Fixed	Fixed
228	M251	HSS12X8X6	None	None	Fixed	Fixed
229	M252	HSS12X8X6	None	None	Fixed	Fixed
230	M253	W12X19	None	None	Pinned	Pinned
231	M255	HSS6X6X6	None	None	Pinned	Fixed
232	M256	HSS6X6X6	None	None	Pinned	Pinned
233	M254	HSS12X8X6	None	None	Fixed	Fixed
234	M257	HSS12X8X6	None	None	Fixed	Fixed
235	M258	HSS12X8X6	None	None	Fixed	Fixed
236	M244	HSS12X8X6	None	None	Fixed	Pinned
237	M242	W16X26	Girder/Bm Shear Tab Shear	Girder/Bm Shear Tab Shear	Pinned	Pinned

Plate Primary Data

No Data to Print...

Plate Advanced Data

No Data to Print...

Solid Primary Data

No Data to Print...

Wall Panel Data

	Label	A Node	B Node	C Node	D Node	Material Type	Material Set	Thickness [in]	Design Rule	Panel/Spacing
1	W1	F1_N27	F1_N28	N21	N20	Masonry	Concrete Matl	10	Typical	72
2	W2	N40	N41	N22	N21	Masonry	Concrete Matl	10	Typical	72
3	W3	N41	N42	N23	N22	Masonry	Concrete Matl	10	Typical	72
4	W4	N42	N43	N24	N23	Masonry	Concrete Matl	10	Typical	72

Wall Panel Advanced Data

	Label	Seismic Rule	Design Method	SSAF	Cm In-Plane	Cm Out-Plane	Stud Bracing	Sheathing Connect Dist [in]
1	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2	W2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3	W3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4	W4	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Diaphragms

	Node Label	Plane	Inactive	No Wind/Drift
1	F1_N12	ZX		

Design Size and Code Check Parameters

	Label	Max Axial/Bending Chk	Max Shear Chk
1	Typical	1	1

Concrete Rebar Parameters

	Label	Optimize Rebar ?	Min Flex Bar	Max Flex Bar	Shear Bar	Legs per Stirrup	Top (Column) Cover [in]	Bottom Cover [in]	Side Cover [in]	Top/Bottom Bars	Add'l Side Bars	Shear Bar Spacing [in]
1	Typical	Optimize	#6	#10	#4	2	1.5	3	1.5	2	1	12

Deflection Design

	Label	LC	Ratio	LC	Ratio	LC	Ratio
1	Typical	None	N/A	None	N/A	None	N/A

Wall Panel U.C. Parameters

	Label	Max Bending Chk	Max Shear Chk
1	Typical	1	1

Masonry Wall Panel Parameters

	Label	Block Nom Width	Block Grouting	Reinforced	Wall Area Method
1	Typical	10"	Partially Grouted	Yes	NCMA

Masonry Wall Panel In-Plane Parameters

	Label	Vert Bar Size	Bars Per Cell	Min Bound Zone Width [in]	Max Bound Zone Width [in]	Horz Bar Size	1.5x Shear Inc	Transfer Load
1	Typical	#5	1	8	40	#5	Yes	

Masonry Wall Panel Out-of-Plane Parameters

	Label	Bar Size	Bar Space Min	Bar Space Max	Bar Placement	Cover [in]	Mortar Type	Cement Type	Transfer Load
1	Typical	#5	8"	72"	Center	Min	Type M or S	Portland, Lime/Mortar	

Masonry Wall Panel Lintel Parameters

	Label	Depth [in]	Bear Length [in]	Bar Size	Min # Bars Per Layer	Max # Bars Per Layer	Num of Layers	c/c Sp of Layers [in]	Dist To Bot [in]	Stirrup Size	Analysis Method
1	Typical	16	8	#5	1	3	1	N/A	3.5	#4	Simply Supported

Wood Wall Panel Parameters

	Label	Top Plate	Sill Plate	Studs	Min Stud Space [in]	Max Stud Space [in]	Green Lumber?	Header Size	Header Matl
1	Typical	2-2X8	2X6	2X6	16	16		6x8	Same as Wall

Additional Wood Wall Panel Parameters

	Label	Schedule	Min Panel Thick [in]	Max Panel Thick [in]	Double Sided Panel?	Max. Nail Spacing	Min. Nail Spacing	HD Chords	HD Chord Matl	Hold Down	Chord Strap	Eccentricity
1	Typical	AWC 2015 OSB	0.375	0.75	Optimum	6-in.	2-in.	2-2X8	Same as Wall	CAN SIMPSON Catalog	SIMPSON Chord Straps	

Concrete Wall Panel Rebar Parameters

	Label	Vert Bar Size	Max Vert Bar Space [in]	Min Vert Bar Space [in]	Vert Bar Inc [in]	Horz Bar Size	Max Horz Bar Space [in]	Min Horz Bar Space [in]	Horz Bar Inc [in]	Group Wall
1	Typical	#6	18	4	2	#4	18	4	2	

Concrete Wall Panel Cover Parameters

	Label	Outer Bars	Location	Int Cover -z [in]	Ext Cover +z [in]	Edge Cover [in]	Transfer In	Transfer Out
1	Typical	Vertical	Each Face	1	1	2		

Frame / HR Column Seismic Design Rule

	Label	Frame Ductility	Overstrength Reqd
1	OCBF	Minimal	Yes
2	SCBF	High	Yes
3	OMF	High	Yes
4	IMF	High	Yes
5	SMF-RBS	High	Yes
6	SMF-KaiserB	High	Yes
7	SMF-KaiserW	High	Yes
8	SMF-BCEEP	High	Yes
9	SMF-WUF-W	High	Yes

HR Beam Seismic Design Rule

	Label	Connection	Overstrength Reqd	Z Factor	Hinge Location [in]
1	OCBF	Other/None			
2	SCBF	Other/None	Yes		
3	OMF	BUEEP			12
4	IMF	BFP			12
5	SMF-RBS	RBS		0.685	14.625
6	SMF-KaiserB	KBB-B			12
7	SMF-KaiserW	KBB-W			12
8	SMF-BCEEP	BSEEP			12
9	SMF-WUF-W	WUF-W			

HR Brace Seismic Design Rule

	Label	Overstrength Reqd	KL/r
1	OCBF		
2	SCBF		Yes
3	OMF		
4	IMF		
5	SMF-RBS		
6	SMF-KaiserB		
7	SMF-KaiserW		
8	SMF-BCEEP		
9	SMF-WUF-W		

Concrete Wall Seismic Design Rule

No Data to Print...

Connection Design Rules

	Label	Conn Type	Type	Beam Conn	Col/Girder Conn	Eccentricity
1	Col/Bm Single Angle Shear	Shear	Column/Beam Clip Single Angle Shear	Bolted	Bolted	1.5
2	Col/Bm Double Angle Shear	Shear	Column/Beam Clip Double Angle Shear	Bolted	Bolted	0
3	Col/Bm Two Side Clip Angle Shear	Shear	Column/Beam Clip Double Angle (Both Side) Shear	Bolted	Bolted	N/A

Connection Design Rules (Continued)

	Label	Conn Type	Type	Beam Conn	Col/Girder Conn	Eccentricity
4	Col/Bm End Plate Shear	Shear	Column/Beam End-Plate Shear	N/A	Bolted	N/A
5	Col/Bm Shear Tab Shear	Shear	Column/Beam Shear Tab Shear	Bolted	N/A	0
6	Girder/Bm Single Angle Shear	Shear	Girder/Beam Clip Single Angle Shear	Bolted	Bolted	N/A
7	Girder/Bm Double Angle Shear	Shear	Girder/Beam Clip Double Angle Shear	Bolted	Bolted	N/A
8	Grd/Bm Two Side Clip Angle Shear	Shear	Girder/Beam Clip Double Angle (Both Side) Shear	Bolted	Bolted	N/A
9	Girder/Bm End Plate Shear	Shear	Girder/Beam End-Plate Shear	N/A	Bolted	N/A
10	Girder/Bm Shear Tab Shear	Shear	Girder/Beam Shear Tab Shear	Bolted	N/A	N/A
11	Beam Shear Splice	Shear	Beam Shear Tab Splice	Bolted	N/A	N/A
12	Column Shear Splice	Shear	Column Shear Tab Splice	N/A	Bolted	N/A
13	Col/Bm Ext. End Plate Moment	Moment	Column/Beam Extended End-Plate Moment	N/A	N/A	N/A
14	Col/Bm PartExt. End Plate Moment	Moment	Column/Beam Partially Extended End-Plate Moment (Tension side)	N/A	N/A	N/A
15	Col/Bm Flush End Plate Moment	Moment	Column/Beam Flush End-Plate Moment	N/A	N/A	N/A
16	Col/Bm Flange Plate Moment	Moment	Column/Beam Flange Plate Moment	Bolted	N/A	N/A
17	Col/Bm Direct Weld Moment	Moment	Column/Beam Direct Weld Moment	Bolted	N/A	N/A
18	Col/Bm Seismic Moment	Moment	Column/Beam Seismic Moment	N/A	N/A	N/A
19	Beam Moment Plate Splice	Moment	Beam Moment Plate Splice	Bolted	N/A	N/A
20	Column Moment Plate Splice	Moment	Column Moment Plate Splice	N/A	N/A	N/A
21	Beam Direct Weld Moment Splice	Moment	Beam Direct Weld Splice	Bolted	N/A	N/A
22	Col Direct Weld Moment Splice	Moment	Column Direct Weld Splice	N/A	Bolted	N/A
23	Bm Ext. End Plate Moment Splice	Moment	Beam Extended End Plate Splice	Bolted	N/A	N/A
24	Col Ext. End Plate Moment Splice	Moment	Column Extended End Plate Splice	N/A	Bolted	N/A
25	Diagonal Vertical Brace	Brace	Diagonal Vertical Brace	N/A	N/A	N/A
26	Chevron Vertical Brace	Brace	Chevron Vertical Brace	N/A	N/A	N/A
27	Seismic Diagonal Brace	Brace	Diagonal Brace Seismic	N/A	N/A	N/A
28	Seismic Chevron Brace	Brace	Chevron Brace Seismic	N/A	N/A	N/A
29	Knee Brace	Brace	Knee Brace	N/A	N/A	N/A
30	Single Column Base Plate	Baseplate	Single Column Baseplate	N/A	N/A	N/A
31	Base Plate with Vertical Brace	Baseplate	Brace to Column Base Plate	N/A	N/A	N/A
32	HSS Truss Connection	Truss	HSS T-Connection	N/A	N/A	N/A

Drift Definitions

	Type	Floor/Diaphragm	Node Label	Elevation [ft]
1	Diaphragm	Diaph.: 1	-	16

Node Loads and Enforced Displacements (BLC 8 : Wind Load X)

	Node Label	L, D, M	Direction	Magnitude [(k, k-ft), (in, rad), (k*s²/ft, k*s²*ft)]
1	F1_N30	L	X	65
2	N45	L	X	65
3	N44	L	X	25

Node Loads and Enforced Displacements (BLC 11 : Wind Load Z)

	Node Label	L, D, M	Direction	Magnitude [(k, k-ft), (in, rad), (k*s²/ft, k*s²*ft)]
1	F1_N29	L	Z	30
2	F1_N30	L	Z	30

Member Point Loads (BLC 1 : Dead Load)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	F1_J153	y	-1	%50
2	F1_G41	y	-1	%50
3	F1_G21	y	-1	%50
4	F1_G40	y	-1	%50
5	F1_J155	y	-1	%50
6	F1_J156	y	-1	%50

Member Point Loads (BLC 1 : Dead Load) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
7	F1_J154	y	-1	%50
8	F1_J158	y	-1	%50
9	F1_J157	y	-1	%50
10	F1_G39	y	-1	%50

Member Point Loads (BLC 8 : Wind Load X)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	F1_G20	x	15	%50

Member Point Loads (BLC 11 : Wind Load Z)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	F1_G19	x	15	%50

Wall Panel Point Loads

No Data to Print...

Diaphragm Point Loads

No Data to Print...

Member Distributed Loads (BLC 1 : Dead Load)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]	Inactive
1	F1_G11	Y	-0.018	-0.018	0	4	
2	F1_G11	Y	-0.018	0	4	5	
3	F1_G14	Y	-0.071	-0.071	0	7.75	
4	F1_G14	Y	0	-0.018	0	1	
5	F1_G14	Y	-0.018	-0.018	1	7.75	
6	F1_G17	Y	-0.012	0	15.8	23.7	
7	F1_G17	Y	-0.012	0	7.9	15.8	
8	F1_G17	Y	-0.012	0	0	7.9	
9	F1_G17	Y	-0.018	-0.018	0	23.7	
10	F1_G18	Y	-0.013	0	11.16	19.963	
11	F1_G18	Y	-0.008	0	0	5.58	
12	F1_G18	Y	-0.008	0	5.58	11.16	
13	F1_G18	Y	-0.018	-0.018	0	19.963	
14	F1_G19	Y	-0.002	0	7.92	20.077	
15	F1_G19	Y	-0.006	0	15.841	20.077	
16	F1_G19	Y	-0.01	0	7.92	15.841	
17	F1_G19	Y	-0.012	0	0	7.92	
18	F1_G19	Y	-0.018	-0.018	0	20.077	
19	F1_G20	Y	0	-0.038	0	0.747	
20	F1_G20	Y	-0.038	-0.068	0.747	20.895	
21	F1_G20	Y	-0.018	-0.018	0	20.895	
22	F1_G21	Y	-0.007	-0.007	0	47.424	
23	F1_G21	Y	-0.077	-0.077	0	48.393	
24	F1_G21	Y	-0.049	0	47.424	48.393	
25	F1_G21	Y	-0.041	-0.041	32.83	47.424	
26	F1_G21	Y	-0.037	-0.037	0	32.83	
27	F1_G24	Y	-0.069	-0.069	0	17.091	
28	F1_G24	Y	0	-0.077	0	1.529	
29	F1_G24	Y	-0.077	-0.077	1.529	17.091	
30	F1_G25	Y	-0.049	-0.049	0	13.625	
31	F1_G25	Y	0	-0.069	0	1.372	
32	F1_G25	Y	-0.069	-0.069	1.372	13.625	
33	F1_G26	Y	0	-0.088	0	1.759	

Member Distributed Loads (BLC 1 : Dead Load) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]	Inactive
34	F1_G26	Y	-0.069	-0.069	0	9.509	
35	F1_G26	Y	-0.08	-0.08	1.759	9.509	
36	F1_G29	Y	-0.061	-0.098	0	24.533	
37	F1_G31	Y	-0.099	-0.099	0	%100	
38	F1_G32	Y	-0.099	-0.099	0	32.83	
39	F1_G33	Y	-0.018	-0.018	0	27.66	
40	F1_G34	Y	-0.018	-0.018	0	8.67	
41	F1_G35	Y	-0.12	-0.12	0	15.5	
42	F1_G39	Y	-0.158	-0.158	0	32.83	
43	F1_G40	Y	-0.158	-0.158	0	33.33	
44	F1_G41	Y	-0.158	-0.158	0	32.83	
45	F1_G46	Y	-0.088	-0.088	0	32.83	
46	F1_G47	Y	-0.088	-0.088	0	33.33	
47	F1_G48	Y	-0.088	-0.088	0	32.83	
48	F1_G49	Y	-0.089	-0.089	0	32.83	
49	F1_G50	Y	-0.089	-0.089	0	33.33	
50	F1_G51	Y	-0.089	-0.089	0	32.83	
51	F1_G52	Y	-0.089	-0.089	0	32.83	
52	F1_G53	Y	-0.089	-0.089	0	33.33	
53	F1_G54	Y	-0.089	-0.089	0	32.83	
54	F1_G55	Y	-0.088	-0.088	0	32.83	
55	F1_G56	Y	-0.088	-0.088	0	33.33	
56	F1_G57	Y	-0.088	-0.088	0	32.83	
57	F1_J54	Y	-0.087	-0.087	0	32.83	
58	F1_J55	Y	-0.087	-0.087	0	32.83	
59	F1_J56	Y	-0.087	-0.087	0	32.83	
60	F1_J57	Y	-0.087	-0.087	0	32.83	
61	F1_J58	Y	-0.087	-0.087	0	32.83	
62	F1_J59	Y	-0.087	-0.087	0	32.83	
63	F1_J60	Y	-0.089	-0.089	0	32.83	
64	F1_J61	Y	-0.089	-0.089	0	32.83	
65	F1_J62	Y	-0.089	-0.089	0	32.83	
66	F1_J63	Y	-0.089	-0.089	0	32.83	
67	F1_J64	Y	-0.089	-0.089	0	32.83	
68	F1_J65	Y	-0.089	-0.089	0	32.83	
69	F1_J66	Y	-0.089	-0.089	0	32.83	
70	F1_J67	Y	-0.089	-0.089	0	32.83	
71	F1_J68	Y	-0.089	-0.089	0	32.83	
72	F1_J69	Y	-0.089	-0.089	0	32.83	
73	F1_J70	Y	-0.089	-0.089	0	32.83	
74	F1_J71	Y	-0.089	-0.089	0	32.83	
75	F1_J72	Y	-0.089	-0.089	0	32.83	
76	F1_J73	Y	-0.089	-0.089	0	32.83	
77	F1_J74	Y	-0.089	-0.089	0	32.83	
78	F1_J75	Y	-0.089	-0.089	0	32.83	
79	F1_J76	Y	-0.089	-0.089	0	32.83	
80	F1_J77	Y	-0.089	-0.089	0	32.83	
81	F1_J78	Y	-0.087	-0.087	0	32.83	
82	F1_J79	Y	-0.087	-0.087	0	32.83	
83	F1_J80	Y	-0.087	-0.087	0	32.83	
84	F1_J81	Y	-0.087	-0.087	0	32.83	
85	F1_J82	Y	-0.087	-0.087	0	32.83	
86	F1_J83	Y	-0.087	-0.087	0	32.83	
87	F1_J84	Y	-0.087	-0.087	0	33.33	
88	F1_J85	Y	-0.087	-0.087	0	33.33	
89	F1_J86	Y	-0.087	-0.087	0	33.33	
90	F1_J87	Y	-0.087	-0.087	0	33.33	
91	F1_J88	Y	-0.087	-0.087	0	33.33	

Member Distributed Loads (BLC 1 : Dead Load) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]	Inactive
92	F1_J89	Y	-0.087	-0.087	0	33.33	
93	F1_J90	Y	-0.089	-0.089	0	33.33	
94	F1_J91	Y	-0.089	-0.089	0	33.33	
95	F1_J92	Y	-0.089	-0.089	0	33.33	
96	F1_J93	Y	-0.089	-0.089	0	33.33	
97	F1_J94	Y	-0.089	-0.089	0	33.33	
98	F1_J95	Y	-0.089	-0.089	0	33.33	
99	F1_J96	Y	-0.089	-0.089	0	33.33	
100	F1_J97	Y	-0.089	-0.089	0	33.33	
101	F1_J98	Y	-0.089	-0.089	0	33.33	
102	F1_J99	Y	-0.089	-0.089	0	33.33	
103	F1_J100	Y	-0.089	-0.089	0	33.33	
104	F1_J101	Y	-0.089	-0.089	0	33.33	
105	F1_J102	Y	-0.089	-0.089	0	33.33	
106	F1_J103	Y	-0.089	-0.089	0	33.33	
107	F1_J104	Y	-0.089	-0.089	0	33.33	
108	F1_J105	Y	-0.089	-0.089	0	33.33	
109	F1_J106	Y	-0.089	-0.089	0	33.33	
110	F1_J107	Y	-0.089	-0.089	0	33.33	
111	F1_J108	Y	-0.087	-0.087	0	33.33	
112	F1_J109	Y	-0.087	-0.087	0	33.33	
113	F1_J110	Y	-0.087	-0.087	0	33.33	
114	F1_J111	Y	-0.087	-0.087	0	33.33	
115	F1_J112	Y	-0.087	-0.087	0	33.33	
116	F1_J113	Y	-0.087	-0.087	0	33.33	
117	F1_J114	Y	-0.087	-0.087	0	32.83	
118	F1_J115	Y	-0.087	-0.087	0	32.83	
119	F1_J116	Y	-0.087	-0.087	0	32.83	
120	F1_J117	Y	-0.087	-0.087	0	32.83	
121	F1_J118	Y	-0.087	-0.087	0	32.83	
122	F1_J119	Y	-0.087	-0.087	0	32.83	
123	F1_J120	Y	-0.089	-0.089	0	32.83	
124	F1_J121	Y	-0.089	-0.089	0	32.83	
125	F1_J122	Y	-0.089	-0.089	0	32.83	
126	F1_J123	Y	-0.089	-0.089	0	32.83	
127	F1_J124	Y	-0.089	-0.089	0	32.83	
128	F1_J125	Y	-0.089	-0.089	0	32.83	
129	F1_J126	Y	-0.089	-0.089	0	32.83	
130	F1_J127	Y	-0.089	-0.089	0	32.83	
131	F1_J128	Y	-0.089	-0.089	0	32.83	
132	F1_J129	Y	-0.089	-0.089	0	32.83	
133	F1_J130	Y	-0.089	-0.089	0	32.83	
134	F1_J131	Y	-0.089	-0.089	0	32.83	
135	F1_J132	Y	-0.089	-0.089	0	32.83	
136	F1_J133	Y	-0.089	-0.089	0	32.83	
137	F1_J134	Y	-0.089	-0.089	0	32.83	
138	F1_J135	Y	-0.089	-0.089	0	32.83	
139	F1_J136	Y	-0.089	-0.089	0	32.83	
140	F1_J137	Y	-0.089	-0.089	0	32.83	
141	F1_J138	Y	-0.087	-0.087	0	32.83	
142	F1_J139	Y	-0.087	-0.087	0	32.83	
143	F1_J140	Y	-0.087	-0.087	0	32.83	
144	F1_J141	Y	-0.087	-0.087	0	32.83	
145	F1_J142	Y	-0.087	-0.087	0	32.83	
146	F1_J143	Y	-0.087	-0.087	0	32.83	
147	F1_J148	Y	-0.069	-0.069	0	10.881	
148	F1_J148	Y	0	-0.069	0	1.372	
149	F1_J148	Y	-0.069	-0.069	1.372	10.881	

Member Distributed Loads (BLC 1 : Dead Load) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]	Inactive
150	F1_J149	Y	-0.069	-0.069	0	12.253	
151	F1_J149	Y	0	-0.069	0	1.372	
152	F1_J149	Y	-0.069	-0.069	1.372	12.253	
153	F1_J150	Y	0	-0.049	0	0.969	
154	F1_J150	Y	-0.049	-0.049	0.969	14.594	
155	F1_J150	Y	-0.049	-0.049	0	14.594	
156	F1_J151	Y	-0.069	-0.069	0	18.467	
157	F1_J151	Y	0	-0.069	0	1.375	
158	F1_J151	Y	-0.069	-0.069	1.375	18.467	
159	F1_J152	Y	-0.038	-0.069	0	19.842	
160	F1_J152	Y	0	-0.069	0	1.375	
161	F1_J152	Y	-0.069	-0.069	1.375	19.842	
162	F1_J153	Y	-0.163	-0.163	0	32.83	
163	F1_J154	Y	-0.044	-0.082	0	24.16	
164	F1_J154	Y	-0.082	-0.082	24.16	32.83	
165	F1_J154	Y	-0.082	-0.082	0	32.83	
166	F1_J155	Y	-0.163	-0.163	0	33.33	
167	F1_J156	Y	-0.163	-0.163	0	33.33	
168	F1_J157	Y	-0.163	-0.163	0	32.83	
169	F1_J158	Y	-0.163	-0.163	0	32.83	
170	F1_G158	Y	-0.12	-0.12	0	25	
171	F1_G159	Y	-0.12	-0.12	0	8.33	
172	F1_G155	Y	-0.151	-0.151	0	7.75	
173	F1_G157	Y	-0.159	-0.159	0	7.75	
174	M216	Y	-0.2	-0.2	0	%100	
175	M197	Y	-0.2	-0.2	0	%100	
176	M193	Y	-0.2	-0.2	0	%100	
177	M194	Y	-0.2	-0.2	0	%100	
178	M196	Y	-0.2	-0.2	0	%100	
179	M228	Y	-0.2	-0.2	0	%100	
180	M225	Y	-0.2	-0.2	0	%100	
181	F1_G154	Y	-0.018	0	10.043	10.131	Inactive
182	F1_G154	Y	0	-0.015	0	10.131	Inactive
183	F1_G154	Y	-0.018	-0.018	0	10.043	Inactive
184	M234	Y	1.452	0	0	%7.171905	Inactive
185	M234	Y	-0.026	-0.015	0	%7.171905	Inactive
186	M234	Y	-0.018	-0.018	0	%7.259393	Inactive
187	M245	Y	-0.1	-0.1	0	%100	
188	M241	Y	-0.1	-0.1	0	%100	
189	M240	Y	-0.1	-0.1	0	%100	
190	M252	Y	-0.1	-0.1	0	%100	
191	M239	Y	-0.1	-0.1	0	%100	
192	M238	Y	-0.1	-0.1	0	%100	
193	M237	Y	-0.1	-0.1	0	%100	
194	M250	Y	-0.1	-0.1	0	%100	
195	M246	Y	-0.1	-0.1	0	%100	
196	M247	Y	-0.1	-0.1	0	%100	
197	M248	Y	-0.1	-0.1	0	%100	
198	M199	Y	-0.05	-0.05	0	17.767	
199	M251	Y	-0.05	-0.05	0	%100	
200	M253	Y	-0.151	-0.151	0	7.75	
201	F1_G154	Y	-0.1	-0.1	0	%100	
202	M234	Y	-0.1	-0.1	0	%100	
203	M254	Y	-0.2	-0.2	0	%100	
204	M257	Y	-0.2	-0.2	0	%100	
205	M258	Y	-0.2	-0.2	0	%100	
206	M242	Y	-0.158	-0.158	0	32.83	

Member Distributed Loads (BLC 2 : Live Load)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M216	Y	-0.1	-0.1	0	%100
2	M197	Y	-0.1	-0.1	0	%100
3	M193	Y	-0.1	-0.1	0	%100
4	M194	Y	-0.1	-0.1	0	%100
5	M196	Y	-0.1	-0.1	0	%100
6	M228	Y	-0.1	-0.1	0	%100
7	M225	Y	-0.1	-0.1	0	%100
8	M233	Y	-0.05	-0.05	0	%100
9	M235	Y	-0.05	-0.05	0	%100
10	M236	Y	-0.05	-0.05	0	%100
11	M254	Y	-0.1	-0.1	0	%100
12	M257	Y	-0.1	-0.1	0	%100
13	M258	Y	-0.1	-0.1	0	%100

Member Distributed Loads (BLC 4 : Roof Live Load)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]	Inactive
1	F1_G11	Y	-0.02	-0.02	0	4	
2	F1_G20	Y	-0.02	-0.02	0	20.895	
3	F1_G21	Y	-0.447	-0.447	0	32.83	
4	F1_G29	Y	-0.142	-0.247	0	24.533	
5	F1_G31	Y	-0.251	-0.251	0	%100	
6	F1_G32	Y	-0.251	-0.251	0	32.83	
7	F1_G33	Y	-0.02	-0.02	0	27.66	
8	F1_G34	Y	-0.02	-0.02	0	8.67	
9	F1_G35	Y	-0.266	-0.266	0	15.5	
10	F1_G39	Y	-0.447	-0.447	0	32.83	
11	F1_G40	Y	-0.447	-0.447	0	33.33	
12	F1_G41	Y	-0.447	-0.447	0	32.83	
13	F1_G46	Y	-0.099	-0.099	0	32.83	
14	F1_G47	Y	-0.099	-0.099	0	33.33	
15	F1_G48	Y	-0.099	-0.099	0	32.83	
16	F1_G49	Y	-0.1	-0.1	0	32.83	
17	F1_G50	Y	-0.1	-0.1	0	33.33	
18	F1_G51	Y	-0.1	-0.1	0	32.83	
19	F1_G52	Y	-0.1	-0.1	0	32.83	
20	F1_G53	Y	-0.1	-0.1	0	33.33	
21	F1_G54	Y	-0.1	-0.1	0	32.83	
22	F1_G55	Y	-0.099	-0.099	0	32.83	
23	F1_G56	Y	-0.099	-0.099	0	33.33	
24	F1_G57	Y	-0.099	-0.099	0	32.83	
25	F1_J54	Y	-0.098	-0.098	0	32.83	
26	F1_J55	Y	-0.098	-0.098	0	32.83	
27	F1_J56	Y	-0.098	-0.098	0	32.83	
28	F1_J57	Y	-0.098	-0.098	0	32.83	
29	F1_J58	Y	-0.098	-0.098	0	32.83	
30	F1_J59	Y	-0.098	-0.098	0	32.83	
31	F1_J60	Y	-0.1	-0.1	0	32.83	
32	F1_J61	Y	-0.1	-0.1	0	32.83	
33	F1_J62	Y	-0.1	-0.1	0	32.83	
34	F1_J63	Y	-0.1	-0.1	0	32.83	
35	F1_J64	Y	-0.1	-0.1	0	32.83	
36	F1_J65	Y	-0.1	-0.1	0	32.83	
37	F1_J66	Y	-0.1	-0.1	0	32.83	
38	F1_J67	Y	-0.1	-0.1	0	32.83	
39	F1_J68	Y	-0.1	-0.1	0	32.83	
40	F1_J69	Y	-0.1	-0.1	0	32.83	
41	F1_J70	Y	-0.1	-0.1	0	32.83	

Member Distributed Loads (BLC 4 : Roof Live Load) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]	Inactive
42	F1_J71	Y	-0.1	-0.1	0	32.83	
43	F1_J72	Y	-0.1	-0.1	0	32.83	
44	F1_J73	Y	-0.1	-0.1	0	32.83	
45	F1_J74	Y	-0.1	-0.1	0	32.83	
46	F1_J75	Y	-0.1	-0.1	0	32.83	
47	F1_J76	Y	-0.1	-0.1	0	32.83	
48	F1_J77	Y	-0.1	-0.1	0	32.83	
49	F1_J78	Y	-0.098	-0.098	0	32.83	
50	F1_J79	Y	-0.098	-0.098	0	32.83	
51	F1_J80	Y	-0.098	-0.098	0	32.83	
52	F1_J81	Y	-0.098	-0.098	0	32.83	
53	F1_J82	Y	-0.098	-0.098	0	32.83	
54	F1_J83	Y	-0.098	-0.098	0	32.83	
55	F1_J84	Y	-0.098	-0.098	0	33.33	
56	F1_J85	Y	-0.098	-0.098	0	33.33	
57	F1_J86	Y	-0.098	-0.098	0	33.33	
58	F1_J87	Y	-0.098	-0.098	0	33.33	
59	F1_J88	Y	-0.098	-0.098	0	33.33	
60	F1_J89	Y	-0.098	-0.098	0	33.33	
61	F1_J90	Y	-0.1	-0.1	0	33.33	
62	F1_J91	Y	-0.1	-0.1	0	33.33	
63	F1_J92	Y	-0.1	-0.1	0	33.33	
64	F1_J93	Y	-0.1	-0.1	0	33.33	
65	F1_J94	Y	-0.1	-0.1	0	33.33	
66	F1_J95	Y	-0.1	-0.1	0	33.33	
67	F1_J96	Y	-0.1	-0.1	0	33.33	
68	F1_J97	Y	-0.1	-0.1	0	33.33	
69	F1_J98	Y	-0.1	-0.1	0	33.33	
70	F1_J99	Y	-0.1	-0.1	0	33.33	
71	F1_J100	Y	-0.1	-0.1	0	33.33	
72	F1_J101	Y	-0.1	-0.1	0	33.33	
73	F1_J102	Y	-0.1	-0.1	0	33.33	
74	F1_J103	Y	-0.1	-0.1	0	33.33	
75	F1_J104	Y	-0.1	-0.1	0	33.33	
76	F1_J105	Y	-0.1	-0.1	0	33.33	
77	F1_J106	Y	-0.1	-0.1	0	33.33	
78	F1_J107	Y	-0.1	-0.1	0	33.33	
79	F1_J108	Y	-0.098	-0.098	0	33.33	
80	F1_J109	Y	-0.098	-0.098	0	33.33	
81	F1_J110	Y	-0.098	-0.098	0	33.33	
82	F1_J111	Y	-0.098	-0.098	0	33.33	
83	F1_J112	Y	-0.098	-0.098	0	33.33	
84	F1_J113	Y	-0.098	-0.098	0	33.33	
85	F1_J114	Y	-0.098	-0.098	0	32.83	
86	F1_J115	Y	-0.098	-0.098	0	32.83	
87	F1_J116	Y	-0.098	-0.098	0	32.83	
88	F1_J117	Y	-0.098	-0.098	0	32.83	
89	F1_J118	Y	-0.098	-0.098	0	32.83	
90	F1_J119	Y	-0.098	-0.098	0	32.83	
91	F1_J120	Y	-0.1	-0.1	0	32.83	
92	F1_J121	Y	-0.1	-0.1	0	32.83	
93	F1_J122	Y	-0.1	-0.1	0	32.83	
94	F1_J123	Y	-0.1	-0.1	0	32.83	
95	F1_J124	Y	-0.1	-0.1	0	32.83	
96	F1_J125	Y	-0.1	-0.1	0	32.83	
97	F1_J126	Y	-0.1	-0.1	0	32.83	
98	F1_J127	Y	-0.1	-0.1	0	32.83	
99	F1_J128	Y	-0.1	-0.1	0	32.83	

Member Distributed Loads (BLC 4 : Roof Live Load) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]	Inactive
100	F1_J129	Y	-0.1	-0.1	0	32.83	
101	F1_J130	Y	-0.1	-0.1	0	32.83	
102	F1_J131	Y	-0.1	-0.1	0	32.83	
103	F1_J132	Y	-0.1	-0.1	0	32.83	
104	F1_J133	Y	-0.1	-0.1	0	32.83	
105	F1_J134	Y	-0.1	-0.1	0	32.83	
106	F1_J135	Y	-0.1	-0.1	0	32.83	
107	F1_J136	Y	-0.1	-0.1	0	32.83	
108	F1_J137	Y	-0.1	-0.1	0	32.83	
109	F1_J138	Y	-0.098	-0.098	0	32.83	
110	F1_J139	Y	-0.098	-0.098	0	32.83	
111	F1_J140	Y	-0.098	-0.098	0	32.83	
112	F1_J141	Y	-0.098	-0.098	0	32.83	
113	F1_J142	Y	-0.098	-0.098	0	32.83	
114	F1_J143	Y	-0.098	-0.098	0	32.83	
115	F1_J153	Y	-0.461	-0.461	0	32.83	
116	F1_J154	Y	-0.124	-0.231	0	24.16	
117	F1_J154	Y	-0.231	-0.231	24.16	32.83	
118	F1_J154	Y	-0.231	-0.231	0	32.83	
119	F1_J155	Y	-0.461	-0.461	0	33.33	
120	F1_J156	Y	-0.461	-0.461	0	33.33	
121	F1_J157	Y	-0.461	-0.461	0	32.83	
122	F1_J158	Y	-0.461	-0.461	0	32.83	
123	F1_G158	Y	-0.266	-0.266	0	25	
124	F1_G159	Y	-0.266	-0.266	0	8.33	
125	F1_G154	Y	-0.02	-0.02	0	10.043	Inactive
126	F1_G154	Y	-0.02	0	10.043	10.131	Inactive
127	F1_G154	Y	0	-0.043	0	10.131	Inactive
128	M234	Y	-0.02	-0.02	0	%7.259393	Inactive
129	M234	Y	1.64	0	0	%7.171905	Inactive
130	M234	Y	-0.074	-0.043	0	%7.171905	Inactive
131	M245	Y	-0.3	-0.3	0	%100	
132	M251	Y	-0.3	-0.3	0	%100	
133	M241	Y	-0.3	-0.3	0	%100	
134	M240	Y	-0.3	-0.3	0	%100	
135	M252	Y	-0.3	-0.3	0	%100	
136	M239	Y	-0.3	-0.3	0	%100	
137	M238	Y	-0.3	-0.3	0	%100	
138	M237	Y	-0.3	-0.3	0	%100	
139	M250	Y	-0.3	-0.3	0	%100	
140	M246	Y	-0.3	-0.3	0	%100	
141	M248	Y	-0.3	-0.3	0	%100	
142	M247	Y	-0.3	-0.3	0	%100	
143	M199	Y	-0.3	-0.3	0	4	
144	F1_G14	Y	-0.6	-0.6	0	%100	
145	M253	Y	-0.6	-0.6	0	%100	
146	F1_G157	Y	-0.6	-0.6	0	%100	
147	F1_G155	Y	-0.6	-0.6	0	%100	
148	F1_G26	Y	-0.6	-0.6	0	%100	
149	F1_J148	Y	-0.6	-0.6	0	%100	
150	F1_J149	Y	-0.6	-0.6	0	%100	
151	F1_G25	Y	-0.6	-0.6	0	%100	
152	F1_J150	Y	-0.6	-0.6	0	%100	
153	F1_J151	Y	-0.6	-0.6	0	%100	
154	F1_J152	Y	-0.6	-0.6	0	%100	
155	F1_G24	Y	-0.6	-0.6	0	%100	
156	F1_G21	Y	-0.447	-0.6	%65	%100	
157	F1_G154	Y	-0.05	-0.5	0	%100	

Member Distributed Loads (BLC 4 : Roof Live Load) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]	Inactive
158	F1_G17	Y	-0.05	-0.5	0	%100	
159	F1_G18	Y	-0.05	-0.5	0	%100	
160	M234	Y	-0.05	-0.5	0	%100	
161	M216	Y	-0.2	-0.2	0	%100	
162	M197	Y	-0.2	-0.2	0	%100	
163	M193	Y	-0.2	-0.2	0	%100	
164	M194	Y	-0.2	-0.2	0	%100	
165	M196	Y	-0.2	-0.2	0	%100	
166	M228	Y	-0.2	-0.2	0	%100	
167	M227	Y	-0.2	-0.2	0	%100	
168	F1_G19	Y	-0.05	-0.5	0	%100	
169	M225	Y	-0.2	-0.2	0	%100	
170	M226	Y	-0.2	-0.2	0	%100	
171	M254	Y	-0.2	-0.2	0	%100	
172	M257	Y	-0.2	-0.2	0	%100	
173	M258	Y	-0.2	-0.2	0	%100	
174	M244	Y	-0.2	-0.2	0	%100	
175	M242	Y	-0.447	-0.447	0	32.83	

Member Distributed Loads (BLC 8 : Wind Load X)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M220	z	-0.25	-0.25	0	%100
2	M227	y	0.25	0.25	0	%100
3	M228	y	0.25	0.25	0	%100
4	M196	z	-0.25	-0.25	0	%100
5	M194	z	-0.25	-0.25	0	%100
6	M193	z	-0.25	-0.25	0	%100
7	M197	z	0.25	0.25	0	%100
8	M216	z	0.25	0.25	0	%100
9	M244	y	0.25	0.25	0	%100

Member Distributed Loads (BLC 11 : Wind Load Z)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M226	y	0.1	0.1	0	%100
2	M225	y	0.2	0.2	0	%100
3	M254	y	0.2	0.2	0	%100
4	M257	y	0.2	0.2	0	%100
5	M258	y	0.1	0.1	0	%100

Wall Panel Distributed Loads (BLC 1 : Dead Load)

	Wall Label	Direction	Start Magnitude [k/ft, F]	End Magnitude [k/ft, F]	Start Location [(ft, %)]	End Location [(ft, %)]
1	W1(16ft)	Y	-0.12	-0.12	0	17.33
2	W2(14ft)	Y	-0.018	-0.018	0	4.904
3	W2(14ft)	Y	-0.018	-0.018	4.904	9.809
4	W2(14ft)	Y	-0.018	-0.018	9.809	14.713
5	W2(14ft)	Y	-0.018	-0.018	14.713	19.617
6	W2(14ft)	Y	-0.018	-0.018	19.617	24.521
7	W2(14ft)	Y	-0.018	-0.018	24.521	29.426
8	W2(14ft)	Y	-0.018	-0.018	29.426	34.33
9	W2(14ft)	Y	-0.018	-0.018	34.33	39.33
10	W2(14ft)	Y	-0.018	-0.018	39.33	44.33
11	W2(14ft)	Y	-0.018	-0.018	44.33	49.33
12	W2(14ft)	Y	-0.018	-0.018	49.33	54.33
13	W2(14ft)	Y	-0.018	-0.018	54.33	59.33
14	W2(14ft)	Y	-0.018	-0.018	59.33	64.33

Wall Panel Distributed Loads (BLC 1 : Dead Load) (Continued)

	Wall Label	Direction	Start Magnitude [k/ft, F]	End Magnitude [k/ft, F]	Start Location [(ft, %)]	End Location [(ft, %)]
15	W2(14ft)	Y	-0.018	-0.018	64.33	69.33
16	W2(14ft)	Y	-0.018	-0.018	69.33	74.33
17	W2(14ft)	Y	-0.018	-0.018	74.33	79.33
18	W2(14ft)	Y	-0.018	-0.018	79.33	84.33
19	W2(14ft)	Y	-0.018	-0.018	84.33	89.33
20	W2(14ft)	Y	-0.018	-0.018	89.33	94.33
21	W2(14ft)	Y	-0.018	-0.018	94.33	99.33
22	W2(14ft)	Y	-0.018	-0.018	99.33	104.33
23	W2(14ft)	Y	-0.018	-0.018	104.33	109.33
24	W2(14ft)	Y	-0.018	-0.018	109.33	114.33
25	W2(14ft)	Y	-0.018	-0.018	114.33	119.33
26	W2(14ft)	Y	-0.018	-0.018	119.33	124.33
27	W2(14ft)	Y	-0.018	-0.018	124.33	129.33
28	W2(14ft)	Y	-0.018	-0.018	129.33	134.33
29	W2(14ft)	Y	-0.018	-0.018	134.33	139.33
30	W2(14ft)	Y	-0.018	-0.018	139.33	144.234
31	W2(14ft)	Y	-0.018	-0.018	144.234	149.139
32	W2(14ft)	Y	-0.018	-0.018	149.139	154.043
33	W2(14ft)	Y	-0.018	-0.018	154.043	158.947
34	W2(14ft)	Y	-0.018	-0.018	158.947	163.851
35	W2(14ft)	Y	-0.018	-0.018	163.851	168.756
36	W2(14ft)	Y	-0.018	-0.018	168.756	173.66
37	W3(14ft)	Y	-0.061	-0.061	0	32.83
38	W3(14ft)	Y	-0.061	-0.061	66.16	98.99
39	W3(14ft)	Y	-0.061	-0.061	32.83	66.16
40	W4(14ft)	Y	-0.018	-0.018	0	4.904
41	W4(14ft)	Y	-0.018	-0.018	4.904	9.809
42	W4(14ft)	Y	-0.018	-0.018	9.809	14.713
43	W4(14ft)	Y	-0.018	-0.018	14.713	19.617
44	W4(14ft)	Y	-0.018	-0.018	19.617	24.521
45	W4(14ft)	Y	-0.018	-0.018	24.521	29.426
46	W4(14ft)	Y	-0.018	-0.018	29.426	34.33
47	W4(14ft)	Y	-0.018	-0.018	34.33	39.33
48	W4(14ft)	Y	-0.018	-0.018	39.33	44.33
49	W4(14ft)	Y	-0.018	-0.018	44.33	49.33
50	W4(14ft)	Y	-0.018	-0.018	49.33	54.33
51	W4(14ft)	Y	-0.018	-0.018	54.33	59.33
52	W4(14ft)	Y	-0.018	-0.018	59.33	64.33
53	W4(14ft)	Y	-0.018	-0.018	64.33	69.33
54	W4(14ft)	Y	-0.018	-0.018	69.33	74.33
55	W4(14ft)	Y	-0.018	-0.018	74.33	79.33
56	W4(14ft)	Y	-0.018	-0.018	79.33	84.33
57	W4(14ft)	Y	-0.018	-0.018	84.33	89.33
58	W4(14ft)	Y	-0.018	-0.018	89.33	94.33
59	W4(14ft)	Y	-0.018	-0.018	94.33	99.33
60	W4(14ft)	Y	-0.018	-0.018	99.33	100.25

Wall Panel Distributed Loads (BLC 4 : Roof Live Load)

	Wall Label	Direction	Start Magnitude [k/ft, F]	End Magnitude [k/ft, F]	Start Location [(ft, %)]	End Location [(ft, %)]
1	W1(16ft)	Y	-0.266	-0.266	0	17.33
2	W2(14ft)	Y	-0.02	-0.02	0	4.904
3	W2(14ft)	Y	-0.02	-0.02	4.904	9.809
4	W2(14ft)	Y	-0.02	-0.02	9.809	14.713
5	W2(14ft)	Y	-0.02	-0.02	14.713	19.617
6	W2(14ft)	Y	-0.02	-0.02	19.617	24.521
7	W2(14ft)	Y	-0.02	-0.02	24.521	29.426
8	W2(14ft)	Y	-0.02	-0.02	29.426	34.33
9	W2(14ft)	Y	-0.02	-0.02	34.33	39.33

Wall Panel Distributed Loads (BLC 4 : Roof Live Load) (Continued)

	Wall Label	Direction	Start Magnitude [k/ft, F]	End Magnitude [k/ft, F]	Start Location [(ft, %)]	End Location [(ft, %)]
10	W2(14ft)	Y	-0.02	-0.02	39.33	44.33
11	W2(14ft)	Y	-0.02	-0.02	44.33	49.33
12	W2(14ft)	Y	-0.02	-0.02	49.33	54.33
13	W2(14ft)	Y	-0.02	-0.02	54.33	59.33
14	W2(14ft)	Y	-0.02	-0.02	59.33	64.33
15	W2(14ft)	Y	-0.02	-0.02	64.33	69.33
16	W2(14ft)	Y	-0.02	-0.02	69.33	74.33
17	W2(14ft)	Y	-0.02	-0.02	74.33	79.33
18	W2(14ft)	Y	-0.02	-0.02	79.33	84.33
19	W2(14ft)	Y	-0.02	-0.02	84.33	89.33
20	W2(14ft)	Y	-0.02	-0.02	89.33	94.33
21	W2(14ft)	Y	-0.02	-0.02	94.33	99.33
22	W2(14ft)	Y	-0.02	-0.02	99.33	104.33
23	W2(14ft)	Y	-0.02	-0.02	104.33	109.33
24	W2(14ft)	Y	-0.02	-0.02	109.33	114.33
25	W2(14ft)	Y	-0.02	-0.02	114.33	119.33
26	W2(14ft)	Y	-0.02	-0.02	119.33	124.33
27	W2(14ft)	Y	-0.02	-0.02	124.33	129.33
28	W2(14ft)	Y	-0.02	-0.02	129.33	134.33
29	W2(14ft)	Y	-0.02	-0.02	134.33	139.33
30	W2(14ft)	Y	-0.02	-0.02	139.33	144.234
31	W2(14ft)	Y	-0.02	-0.02	144.234	149.139
32	W2(14ft)	Y	-0.02	-0.02	149.139	154.043
33	W2(14ft)	Y	-0.02	-0.02	154.043	158.947
34	W2(14ft)	Y	-0.02	-0.02	158.947	163.851
35	W2(14ft)	Y	-0.02	-0.02	163.851	168.756
36	W2(14ft)	Y	-0.02	-0.02	168.756	173.66
37	W3(14ft)	Y	-0.069	-0.069	0	32.83
38	W3(14ft)	Y	-0.069	-0.069	66.16	98.99
39	W3(14ft)	Y	-0.069	-0.069	32.83	66.16
40	W4(14ft)	Y	-0.02	-0.02	0	4.904
41	W4(14ft)	Y	-0.02	-0.02	4.904	9.809
42	W4(14ft)	Y	-0.02	-0.02	9.809	14.713
43	W4(14ft)	Y	-0.02	-0.02	14.713	19.617
44	W4(14ft)	Y	-0.02	-0.02	19.617	24.521
45	W4(14ft)	Y	-0.02	-0.02	24.521	29.426
46	W4(14ft)	Y	-0.02	-0.02	29.426	34.33
47	W4(14ft)	Y	-0.02	-0.02	34.33	39.33
48	W4(14ft)	Y	-0.02	-0.02	39.33	44.33
49	W4(14ft)	Y	-0.02	-0.02	44.33	49.33
50	W4(14ft)	Y	-0.02	-0.02	49.33	54.33
51	W4(14ft)	Y	-0.02	-0.02	54.33	59.33
52	W4(14ft)	Y	-0.02	-0.02	59.33	64.33
53	W4(14ft)	Y	-0.02	-0.02	64.33	69.33
54	W4(14ft)	Y	-0.02	-0.02	69.33	74.33
55	W4(14ft)	Y	-0.02	-0.02	74.33	79.33
56	W4(14ft)	Y	-0.02	-0.02	79.33	84.33
57	W4(14ft)	Y	-0.02	-0.02	84.33	89.33
58	W4(14ft)	Y	-0.02	-0.02	89.33	94.33
59	W4(14ft)	Y	-0.02	-0.02	94.33	99.33
60	W4(14ft)	Y	-0.02	-0.02	99.33	100.25

Diaphragm Distributed Loads

No Data to Print...

Member Area Loads

No Data to Print...

Plate Surface Loads

No Data to Print...

Wall Panel Surface Loads

No Data to Print...

Diaphragm Surface Loads

No Data to Print...

Basic Load Cases

	BLC Description	Category	Y Gravity	Nodal	Point	Distributed
1	Dead Load	DL	-1		10	266
2	Live Load	LL				13
3	Live Load Special (public assemb	LLS				
4	Roof Live Load	RLL				235
5	Snow Load	SL				
6	Snow Load Nonshedding	SLN				
7	Rain Load	RL				
8	Wind Load X	WLX		3	1	9
9	Partial X Wind Load 1	WLXP1				
10	Partial X Wind Load 2	WLXP2				
11	Wind Load Z	WLZ		2	1	5
12	Partial Z Wind Load 1	WLZP1				
13	Partial Z Wind Load 2	WLZP2				
14	Earthquake Load X	ELX				
15	Earthquake Load X Plus Z Eccentr	ELX+Z				
16	Earthquake Load X Minus Z Eccent	ELX-Z				
17	Earthquake Load Z	ELZ				
18	Earthquake Load Z Plus X Eccentr	ELZ+X				
19	Earthquake Load Z Minus X Eccent	ELZ-X				
20	Other Load 1	OL1				
21	Other Load 2	OL2				
22	Other Load 3	OL3				
23	Other Load 4	OL4				
24	Wind Load Roof +X	WLX+R				
25	Wind Load Roof -X	WLX-R				
26	Wind Load Roof +Z	WLZ+R				
27	Wind Load Roof -Z	WLZ-R				

Moving Loads

No Data to Print...

Time History Loads

No Data to Print...

Load Combinations

	Description	Solve	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
1	IBC 16-1	Yes	DL	1.4								
2	IBC 16-2 (a)	Yes	DL	1.2	LL	1.6	LLS	1.6	RLL	0.5		
3	IBC 16-2 (b)	Yes	DL	1.2	LL	1.6	LLS	1.6				
4	IBC 16-3 (a)	Yes	DL	1.2	RLL	1.6	LL	0.5	LLS	1		
5	IBC 16-3 (b) (a)	Yes	DL	1.2	RLL	1.6	WLX	0.5				
6	IBC 16-3 (b) (b)	Yes	DL	1.2	RLL	1.6	WLZ	0.5				

Load Combinations (Continued)

	Description	Solve	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
7	IBC 16-3 (b) (c)	Yes	DL	1.2	RLL	1.6	WLX	-0.5				
8	IBC 16-3 (b) (d)	Yes	DL	1.2	RLL	1.6	WLZ	-0.5				
9	IBC 16-3 (d) (a)	Yes	DL	1.2	WLX	0.5						
10	IBC 16-3 (d) (b)	Yes	DL	1.2	WLZ	0.5						
11	IBC 16-3 (d) (c)	Yes	DL	1.2	WLX	-0.5						
12	IBC 16-3 (d) (d)	Yes	DL	1.2	WLZ	-0.5						
13	IBC 16-4 (a) (a)	Yes	DL	1.2	WLX	1	LL	0.5	LLS	1	RLL	0.5
14	IBC 16-4 (a) (b)	Yes	DL	1.2	WLZ	1	LL	0.5	LLS	1	RLL	0.5
15	IBC 16-4 (a) (c)	Yes	DL	1.2	WLX	-1	LL	0.5	LLS	1	RLL	0.5
16	IBC 16-4 (a) (d)	Yes	DL	1.2	WLZ	-1	LL	0.5	LLS	1	RLL	0.5
17	IBC 16-4 (b) (a)	Yes	DL	1.2	WLX	1	LL	0.5	LLS	1		
18	IBC 16-4 (b) (b)	Yes	DL	1.2	WLZ	1	LL	0.5	LLS	1		
19	IBC 16-4 (b) (c)	Yes	DL	1.2	WLX	-1	LL	0.5	LLS	1		
20	IBC 16-4 (b) (d)	Yes	DL	1.2	WLZ	-1	LL	0.5	LLS	1		
21	IBC 16-6 (a)	Yes	DL	0.9	WLX	1						
22	IBC 16-6 (b)	Yes	DL	0.9	WLZ	1						
23	IBC 16-6 (c)	Yes	DL	0.9	WLX	-1						
24	IBC 16-6 (d)	Yes	DL	0.9	WLZ	-1						
25	IBC 16-5 (a)	Yes	DL	1.2	ELX	1	LL	0.5	LLS	1		
26	IBC 16-5 (b)	Yes	DL	1.2	ELZ	1	LL	0.5	LLS	1		
27	IBC 16-5 (c)	Yes	DL	1.2	ELX	-1	LL	0.5	LLS	1		
28	IBC 16-5 (d)	Yes	DL	1.2	ELZ	-1	LL	0.5	LLS	1		
29	IBC 16-7 (a)	Yes	DL	0.9	ELX	1						
30	IBC 16-7 (b)	Yes	DL	0.9	ELZ	1						
31	IBC 16-7 (c)	Yes	DL	0.9	ELX	-1						
32	IBC 16-7 (d)	Yes	DL	0.9	ELZ	-1						
33	IBC 16-8	Yes	DL	1								
34	IBC 16-9	Yes	DL	1	LL	1	LLS	1				
35	IBC 16-10 (a)	Yes	DL	1	RLL	1						
36	IBC 16-11 (a)	Yes	DL	1	LL	0.75	LLS	0.75	RLL	0.75		
37	IBC 16-12 (a) (a)	Yes	DL	1	WLX	0.6						
38	IBC 16-12 (a) (b)	Yes	DL	1	WLZ	0.6						
39	IBC 16-12 (a) (c)	Yes	DL	1	WLX	-0.6						
40	IBC 16-12 (a) (d)	Yes	DL	1	WLZ	-0.6						
41	IBC 16-13 (a) (a)	Yes	DL	1	WLX	0.45	LL	0.75	LLS	0.75	RLL	0.75
42	IBC 16-13 (a) (b)	Yes	DL	1	WLZ	0.45	LL	0.75	LLS	0.75	RLL	0.75
43	IBC 16-13 (a) (c)	Yes	DL	1	WLX	-0.45	LL	0.75	LLS	0.75	RLL	0.75
44	IBC 16-13 (a) (d)	Yes	DL	1	WLZ	-0.45	LL	0.75	LLS	0.75	RLL	0.75
45	IBC 16-13 (b) (a)	Yes	DL	1	WLX	0.45	LL	0.75	LLS	0.75		
46	IBC 16-13 (b) (b)	Yes	DL	1	WLZ	0.45	LL	0.75	LLS	0.75		
47	IBC 16-13 (b) (c)	Yes	DL	1	WLX	-0.45	LL	0.75	LLS	0.75		
48	IBC 16-13 (b) (d)	Yes	DL	1	WLZ	-0.45	LL	0.75	LLS	0.75		
49	IBC 16-15 (a)	Yes	DL	0.6	WLX	0.6						
50	IBC 16-15 (b)	Yes	DL	0.6	WLZ	0.6						
51	IBC 16-15 (c)	Yes	DL	0.6	WLX	-0.6						
52	IBC 16-15 (d)	Yes	DL	0.6	WLZ	-0.6						
53	IBC 16-12 (b) (a)	Yes	DL	1	ELX	0.7						
54	IBC 16-12 (b) (b)	Yes	DL	1	ELZ	0.7						
55	IBC 16-12 (b) (c)	Yes	DL	1	ELX	-0.7						
56	IBC 16-12 (b) (d)	Yes	DL	1	ELZ	-0.7						
57	IBC 16-14 (a)	Yes	DL	1	ELX	0.525	LL	0.75	LLS	0.75		
58	IBC 16-14 (b)	Yes	DL	1	ELZ	0.525	LL	0.75	LLS	0.75		
59	IBC 16-14 (c)	Yes	DL	1	ELX	-0.525	LL	0.75	LLS	0.75		
60	IBC 16-14 (d)	Yes	DL	1	ELZ	-0.525	LL	0.75	LLS	0.75		
61	IBC 16-16 (a)	Yes	DL	0.6	ELX	0.7						
62	IBC 16-16 (b)	Yes	DL	0.6	ELZ	0.7						
63	IBC 16-16 (c)	Yes	DL	0.6	ELX	-0.7						
64	IBC 16-16 (d)	Yes	DL	0.6	ELZ	-0.7						

Load Combinations (Continued)

Description	Solve	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor

Load Combination Design

	Description	CD	Service	Hot Rolled	Cold Formed	Wood	Concrete	Masonry	Aluminum	Stainless	Connection
1	IBC 16-1			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
2	IBC 16-2 (a)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3	IBC 16-2 (b)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
4	IBC 16-3 (a)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
5	IBC 16-3 (b) (a)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
6	IBC 16-3 (b) (b)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
7	IBC 16-3 (b) (c)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
8	IBC 16-3 (b) (d)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
9	IBC 16-3 (d) (a)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
10	IBC 16-3 (d) (b)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
11	IBC 16-3 (d) (c)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
12	IBC 16-3 (d) (d)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
13	IBC 16-4 (a) (a)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
14	IBC 16-4 (a) (b)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
15	IBC 16-4 (a) (c)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
16	IBC 16-4 (a) (d)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
17	IBC 16-4 (b) (a)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
18	IBC 16-4 (b) (b)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
19	IBC 16-4 (b) (c)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
20	IBC 16-4 (b) (d)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
21	IBC 16-6 (a)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
22	IBC 16-6 (b)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
23	IBC 16-6 (c)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
24	IBC 16-6 (d)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
25	IBC 16-5 (a)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
26	IBC 16-5 (b)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
27	IBC 16-5 (c)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
28	IBC 16-5 (d)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
29	IBC 16-7 (a)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
30	IBC 16-7 (b)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
31	IBC 16-7 (c)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
32	IBC 16-7 (d)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
33	IBC 16-8	0.9	Yes		Yes	Yes	Yes	Yes	Yes	Yes	
34	IBC 16-9		Yes		Yes	Yes	Yes	Yes	Yes	Yes	
35	IBC 16-10 (a)	1.25	Yes		Yes	Yes	Yes	Yes	Yes	Yes	
36	IBC 16-11 (a)	1.25	Yes		Yes	Yes	Yes	Yes	Yes	Yes	
37	IBC 16-12 (a) (a)	1.6	Yes		Yes	Yes	Yes	Yes	Yes	Yes	
38	IBC 16-12 (a) (b)	1.6	Yes		Yes	Yes	Yes	Yes	Yes	Yes	
39	IBC 16-12 (a) (c)	1.6	Yes		Yes	Yes	Yes	Yes	Yes	Yes	
40	IBC 16-12 (a) (d)	1.6	Yes		Yes	Yes	Yes	Yes	Yes	Yes	
41	IBC 16-13 (a) (a)	1.6	Yes		Yes	Yes	Yes	Yes	Yes	Yes	
42	IBC 16-13 (a) (b)	1.6	Yes		Yes	Yes	Yes	Yes	Yes	Yes	
43	IBC 16-13 (a) (c)	1.6	Yes		Yes	Yes	Yes	Yes	Yes	Yes	
44	IBC 16-13 (a) (d)	1.6	Yes		Yes	Yes	Yes	Yes	Yes	Yes	
45	IBC 16-13 (b) (a)	1.6	Yes		Yes	Yes	Yes	Yes	Yes	Yes	
46	IBC 16-13 (b) (b)	1.6	Yes		Yes	Yes	Yes	Yes	Yes	Yes	
47	IBC 16-13 (b) (c)	1.6	Yes		Yes	Yes	Yes	Yes	Yes	Yes	
48	IBC 16-13 (b) (d)	1.6	Yes		Yes	Yes	Yes	Yes	Yes	Yes	
49	IBC 16-15 (a)	1.6	Yes		Yes	Yes	Yes	Yes	Yes	Yes	
50	IBC 16-15 (b)	1.6	Yes		Yes	Yes	Yes	Yes	Yes	Yes	
51	IBC 16-15 (c)	1.6	Yes		Yes	Yes	Yes	Yes	Yes	Yes	
52	IBC 16-15 (d)	1.6	Yes		Yes	Yes	Yes	Yes	Yes	Yes	
53	IBC 16-12 (b) (a)	1.6	Yes		Yes	Yes	Yes	Yes	Yes	Yes	
54	IBC 16-12 (b) (b)	1.6	Yes		Yes	Yes	Yes	Yes	Yes	Yes	
55	IBC 16-12 (b) (c)	1.6	Yes		Yes	Yes	Yes	Yes	Yes	Yes	
56	IBC 16-12 (b) (d)	1.6	Yes		Yes	Yes	Yes	Yes	Yes	Yes	
57	IBC 16-14 (a)	1.6	Yes		Yes	Yes	Yes	Yes	Yes	Yes	
58	IBC 16-14 (b)	1.6	Yes		Yes	Yes	Yes	Yes	Yes	Yes	

Load Combination Design (Continued)

	Description	CD	Service	Hot Rolled	Cold Formed	Wood	Concrete	Masonry	Aluminum	Stainless	Connection
59	IBC 16-14 (c)	1.6	Yes		Yes	Yes	Yes	Yes	Yes	Yes	
60	IBC 16-14 (d)	1.6	Yes		Yes	Yes	Yes	Yes	Yes	Yes	
61	IBC 16-16 (a)	1.6	Yes		Yes	Yes	Yes	Yes	Yes	Yes	
62	IBC 16-16 (b)	1.6	Yes		Yes	Yes	Yes	Yes	Yes	Yes	
63	IBC 16-16 (c)	1.6	Yes		Yes	Yes	Yes	Yes	Yes	Yes	
64	IBC 16-16 (d)	1.6	Yes		Yes	Yes	Yes	Yes	Yes	Yes	

Envelope Node Reactions

	Node Label		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N13	max	15.242	23	117.286	5	0	23	0	64	0.005	19	0	64
2		min	-19.54	13	5.15	51	0	13	0	1	-0.006	13	0	1
3	N14	max	16.042	23	38.744	5	0	13	0	64	0.005	19	0	64
4		min	-22.173	13	-10.117	23	0	19	0	1	-0.005	13	0	1
5	N15	max	21.209	15	93.533	7	0	13	0	64	0.005	19	0	64
6		min	-16.579	21	2.254	21	0	19	0	1	-0.005	13	0	1
7	N16	max	7.99	23	51.702	6	1.409	23	0	64	0.006	7	0	64
8		min	0	49	3.841	51	0	41	0	1	0	50	0	1
9	N17	max	-0.339	52	50.982	4	-0.017	52	0	64	0.192	7	0	64
10		min	-7.344	21	4.554	49	-1.236	21	0	1	0.01	49	0	1
11	N18	max	0.91	23	82.07	4	0.234	15	0	64	1.076	4	0	64
12		min	-1.685	13	11.126	49	-0.394	21	0	1	0.137	49	0	1
13	N19	max	18.819	15	27.548	15	0	13	0	64	0.005	19	0	64
14		min	-15.633	21	-18.224	21	0	19	0	1	-0.006	13	0	1
15	N226	max	0	21	72.782	7	0	22	0	64	0.001	19	0	64
16		min	0	15	16.887	49	0	16	0	1	-0.002	13	0	1
17	N227	max	0	21	68.839	5	0	22	0	64	0.001	19	0	64
18		min	0	15	15.895	51	0	16	0	1	-0.002	13	0	1
19	N228	max	0	17	72.782	5	0	21	0	64	0.001	19	0	64
20		min	0	15	16.887	51	0	15	0	1	-0.002	13	0	1
21	N229	max	0	21	68.839	5	0	22	0	64	0.001	19	0	64
22		min	0	19	15.895	51	0	15	0	1	-0.002	13	0	1
23	N230	max	0	21	68.839	7	0	22	0	64	0.001	19	0	64
24		min	0	15	15.895	49	0	16	0	1	-0.002	13	0	1
25	N231	max	0	21	68.839	7	0	13	0	64	0.001	19	0	64
26		min	0	19	15.895	49	0	15	0	1	-0.002	13	0	1
27	N232	max	0	17	72.782	5	0	22	0	64	0.001	19	0	64
28		min	0	23	16.887	51	0	16	0	1	-0.002	13	0	1
29	N233	max	0	13	72.782	5	0	21	0	64	0.001	19	0	64
30		min	0	19	16.887	51	0	19	0	1	-0.002	13	0	1
31	N234	max	0.004	7	123.222	7	0.001	7	0	64	0.005	19	0	64
32		min	0.001	49	20.541	49	0	21	0	1	-0.005	13	0	1
33	N235	max	0	13	37.152	5	0.001	5	0	64	0.005	19	0	64
34		min	0	23	5.565	51	0	51	0	1	-0.005	13	0	1
35	N239	max	0	15	59.271	7	0	23	0	64	0.005	19	0	64
36		min	0	21	9.262	49	0	13	0	1	-0.005	13	0	1
37	N241	max	15.998	7	106.543	4	3.246	7	0	64	-0.048	52	0	64
38		min	2.023	49	14.787	51	0.412	49	0	1	-0.312	6	0	1
39	N243	max	-0.039	23	60.73	4	0.142	23	0	64	0.928	7	0	64
40		min	-4.084	5	9.045	51	-0.207	13	0	1	0.075	49	0	1
41	N245	max	0	51	14.426	5	0	5	0	64	0.005	19	0	64
42		min	-0.001	5	2.97	51	0	51	0	1	-0.005	13	0	1
43	N247	max	-0.079	51	15.294	5	0.008	4	0	64	0.005	19	0	64
44		min	-0.689	4	3.367	51	0	21	0	1	-0.005	13	0	1
45	N248	max	0.063	23	38.434	7	0.008	19	0	64	0.005	19	0	64
46		min	-0.42	5	6.514	49	-0.013	13	0	1	-0.005	13	0	1
47	N280	max	12.995	15	53.98	7	5.721	18	113.535	14	22.697	13	53.483	21
48		min	-5.539	21	5.221	49	-5.779	16	-47.313	24	-16.048	23	-102.371	15
49	N288	max	4.081	23	34.512	5	7.672	14	110.275	14	33.865	14	36.111	21

Envelope Node Reactions (Continued)

	Node Label		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
50		min	-11.322	13	3.316	51	-7.571	20	-52.218	24	-25.95	24	-105.442	15
51	N271	max	0.106	7	4.266	17	0.873	4	0	64	0.338	23	0	64
52		min	-0.032	3	-0.471	23	0.103	51	0	1	-0.42	13	0	1
53	N291	max	-0.592	51	65.291	4	-0.013	51	0	64	0.345	7	0	64
54		min	-5.156	4	10.276	49	-0.276	5	0	1	-0.026	21	0	1
55	N328	max	-0.045	51	43.123	7	0.3	4	0	64	0.15	7	0	64
56		min	-0.552	5	4.887	49	0.041	49	0	1	-0.018	21	0	1
57	W1	max	30.281	15	53.653	15	-0.003	49	0	64	0.078	5	291.141	13
58		min	-30.272	13	-4.818	21	-0.011	7	0	1	0.024	51	-266.081	23
59	W2	max	-0.003	49	421.816	5	61.444	13	464.256	23	0.488	15	0	64
60		min	-0.018	15	135.795	51	-59.306	19	-1110.888	5	-0.426	17	0	1
61	W3	max	102.985	15	192.497	8	0.017	7	0	64	0.059	19	1228.635	13
62		min	-102.472	13	76.88	50	0.007	49	0	1	-0.063	13	-1204.23	19
63	W4	max	0.007	1	234.619	6	66.354	19	1076.641	23	0.334	1	0	64
64		min	0.003	49	87.021	52	-72.107	13	-1498.815	13	0.123	51	0	1
65	Totals:	max	226.552	19	2499.886	4	61.553	16						
66		min	-226.552	13	638.674	49	-61.553	18						

Envelope Node Reactions - Overstrength or Capacity Limit

No Data to Print...

Envelope Node Displacements

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
1	N294	max	-0.068	49	-0.395	49	-0.015	49	3.813e-3	7	8.231e-6	21	-2.487e-3	49
2		min	-0.728	7	-2.733	7	-0.167	7	5.484e-4	49	-4.831e-5	7	-1.763e-2	7
3	N331	max	0.222	5	-0.015	49	0.013	21	4.127e-4	6	-1.78e-5	49	5.826e-3	4
4		min	0.002	23	-0.099	4	-0.016	15	3.499e-5	52	-3.574e-4	7	8.577e-4	51
5	N330	max	0.144	5	-0.012	51	0.016	21	4.092e-4	6	-1.001e-4	49	5.446e-3	4
6		min	-0.052	23	-0.093	4	-0.029	7	3.821e-5	52	-8.172e-4	7	7.187e-4	51
7	N300	max	0.043	21	0.087	5	0.004	21	1.129e-3	5	2.472e-4	19	8.465e-4	23
8		min	-0.044	15	0.002	51	-0.05	7	-1.336e-4	23	-2.744e-4	13	-9.312e-4	13
9	N301	max	0.184	13	0.087	5	0.106	5	1.313e-3	5	1.291e-5	21	1.329e-3	19
10		min	-0.178	19	0.002	51	-0.036	23	-1.327e-4	23	-1.74e-4	7	-1.347e-3	13
11	N299	max	0.144	5	-0.118	51	-0.01	49	4.092e-4	6	-2.286e-4	51	1.093e-2	4
12		min	-0.053	23	-0.832	4	-0.143	7	3.821e-5	52	-1.749e-3	5	1.585e-3	51
13	N303	max	0.222	5	-0.263	51	-0.01	49	4.127e-4	6	-2.126e-4	49	1.757e-2	4
14		min	0.001	23	-1.799	4	-0.143	7	3.499e-5	52	-1.445e-3	7	2.556e-3	51
15	N302	max	-0.068	49	0.365	7	-0.011	49	-2.11e-4	50	0	64	1.093e-2	4
16		min	-0.73	7	0.05	49	-0.145	7	-1.413e-3	4	0	1	1.585e-3	51
17	N293	max	0.044	13	-0.004	51	0.015	13	1.029e-4	5	1.641e-5	13	4.393e-3	4
18		min	-0.042	19	-0.028	4	-0.014	23	-3.698e-5	23	-1.507e-5	19	6.467e-4	51
19	N278	max	0.252	21	0	23	0.308	24	3.129e-3	24	8.139e-4	24	3.376e-3	15
20		min	-0.489	15	-0.005	5	-0.774	6	-9.168e-3	6	-2.231e-3	6	-2.405e-3	21
21	F1_N10	max	0.054	13	-0.018	51	0.005	14	2.745e-5	14	1.642e-5	13	2.673e-4	19
22		min	-0.051	19	-0.108	5	-0.005	24	-2.468e-5	24	-1.508e-5	19	-2.817e-4	13
23	F1_N12	max	0.061	13	-0.004	49	0.006	15	2.942e-5	15	1.643e-5	13	3.014e-4	19
24		min	-0.058	19	-0.024	7	-0.005	21	-2.854e-5	21	-1.509e-5	19	-3.188e-4	13
25	F1_N13	max	0.061	13	-0.013	49	0.005	14	2.743e-5	14	1.641e-5	13	3.012e-4	19
26		min	-0.058	19	-0.085	7	-0.005	24	-2.466e-5	24	-1.507e-5	19	-3.187e-4	13
27	F1_N16	max	0.059	13	-0.008	52	0.014	13	7.155e-5	13	0	50	2.913e-4	23
28		min	-0.057	19	-0.056	7	-0.012	23	-6.488e-5	19	-8.475e-6	41	-3.173e-4	13
29	F1_N17	max	0.06	13	-0.004	52	0.018	13	3.887e-4	5	1.642e-5	13	2.339e-3	7
30		min	-0.056	19	-0.028	4	-0.016	23	-8.537e-5	23	-1.508e-5	19	-1.204e-4	21
31	F1_N18	max	0.06	13	-0.006	49	0.018	13	5.446e-4	7	-7.75e-5	49	1.667e-3	13
32		min	-0.058	19	-0.049	4	-0.017	19	-1.217e-4	21	-5.688e-4	4	-1.092e-3	23
33	F1_N27	max	0.053	13	0.02	21	0.005	14	2.022e-5	22	1.456e-5	13	0	64
34		min	-0.051	19	-0.035	15	-0.004	24	-2.705e-5	20	-1.412e-5	19	0	1

Envelope Node Displacements (Continued)

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
35	F1_N28	max	0.054	13	0.004	23	0.006	15	7.613e-5	7	1.641e-5	13	3.479e-4	23
36		min	-0.051	19	-0.027	5	-0.005	21	-4.077e-5	20	-1.507e-5	19	-4.235e-4	13
37	F1_N29	max	0.02	13	0.001	23	0.006	15	6.261e-5	15	1.641e-5	13	1.1e-4	19
38		min	-0.02	15	-0.011	13	-0.005	21	-1.357e-5	21	-1.507e-5	19	-9.7e-5	21
39	F1_N30	max	0.02	13	0.003	21	0.014	13	8.922e-5	13	1.635e-5	13	1.012e-4	23
40		min	-0.02	15	-0.013	15	-0.012	23	-3.556e-5	23	-1.501e-5	19	-1.134e-4	13
41	F1_N31	max	0.04	13	-0.001	51	0.014	13	0	64	1.64e-5	13	1.892e-4	19
42		min	-0.038	19	-0.019	5	-0.012	23	0	1	-1.506e-5	19	-1.971e-4	13
43	F1_N193	max	0.054	13	-0.001	49	0.006	14	3.122e-5	14	1.642e-5	13	2.659e-4	19
44		min	-0.051	19	-0.006	7	-0.005	24	-2.706e-5	24	-1.508e-5	19	-2.835e-4	13
45	N13	max	0	13	0	51	0	13	2.733e-5	14	0	13	2.671e-4	19
46		min	0	23	0	5	0	23	-2.459e-5	24	0	19	-2.815e-4	13
47	N14	max	0	13	0	23	0	19	2.94e-5	15	0	13	3.014e-4	19
48		min	0	23	0	5	0	13	-2.852e-5	21	0	19	-3.189e-4	13
49	N15	max	0	21	0	21	0	19	2.739e-5	14	0	13	3.015e-4	19
50		min	0	15	0	7	0	13	-2.463e-5	24	0	19	-3.189e-4	13
51	N16	max	0	49	0	51	0	41	7.378e-5	13	0	50	3.015e-4	15
52		min	0	23	0	6	0	23	-6.321e-5	23	0	7	-3.051e-4	13
53	N17	max	0	21	0	49	0	21	4.003e-5	21	0	49	-2.622e-4	51
54		min	0	52	0	4	0	52	-2.053e-4	7	0	7	-1.899e-3	4
55	N18	max	0	13	0	49	0	21	2.534e-4	21	0	49	1.2e-3	23
56		min	0	23	0	4	0	15	-4.17e-4	7	0	4	-1.863e-3	13
57	N19	max	0	21	0	21	0	19	3.136e-5	13	0	13	2.678e-4	19
58		min	0	15	0	15	0	13	-2.714e-5	24	0	19	-2.806e-4	13
59	N20	max	0	21	0	21	0	21	2.883e-5	14	8.114e-8	5	0	64
60		min	0	15	0	15	0	15	-1.865e-5	24	1.671e-8	51	0	1
61	N21	max	0	13	0	23	0	7	8.483e-5	15	2.239e-7	15	1.722e-4	23
62		min	0	23	0	13	0	49	6.328e-6	49	-2.182e-7	17	-2.446e-4	13
63	N22	max	0	13	0	23	0	51	-7.819e-6	51	1.426e-7	13	6.611e-5	23
64		min	0	23	0	13	0	13	-7.953e-5	13	-4.514e-8	23	-1.316e-4	13
65	N23	max	0	21	0	21	0	21	3.126e-5	21	2.72e-8	21	1.312e-4	15
66		min	0	15	0	15	0	15	-1.137e-4	15	-1.202e-7	7	-6.565e-5	21
67	N24	max	0	13	0	23	0	13	0	64	6.857e-8	13	1.946e-4	19
68		min	0	19	0	13	0	23	0	1	-6.717e-8	19	-2.031e-4	13
69	N40	max	0.071	13	0.004	23	0.006	6	0	64	5.05e-5	13	3.118e-4	19
70		min	-0.066	19	-0.024	5	-0.004	24	0	1	-3.121e-5	23	-3.432e-4	13
71	N41	max	0.021	13	0.001	23	0.009	15	7.939e-5	7	5.058e-5	21	1.897e-4	19
72		min	-0.021	19	-0.011	13	-0.006	21	-1.358e-5	21	-6.062e-5	15	-1.765e-4	21
73	N42	max	0.021	21	0.003	21	0.018	13	1.057e-4	13	4.49e-5	13	1.779e-4	15
74		min	-0.021	15	-0.013	15	-0.014	23	-3.605e-5	23	-3.553e-5	23	-1.892e-4	17
75	N43	max	0.048	13	-0.001	51	0.017	13	0	64	2.347e-5	13	1.672e-4	19
76		min	-0.046	19	-0.019	5	-0.014	23	0	1	-2.218e-5	19	-1.751e-4	13
77	N44	max	0.057	13	-0.003	49	0.005	14	2.487e-5	14	1.65e-5	13	1.576e-4	5
78		min	-0.054	19	-0.02	7	-0.004	24	-2.304e-5	24	-1.516e-5	19	2.391e-5	51
79	N45	max	0.062	13	-0.002	51	0.006	14	2.933e-5	14	1.57e-5	13	-5.663e-5	51
80		min	-0.06	19	-0.013	5	-0.005	24	-2.587e-5	24	-1.442e-5	19	-3.416e-4	5
81	F1_N1	max	0.027	13	-0.034	49	0.005	14	-1.788e-3	49	1.641e-5	13	1.849e-4	19
82		min	-0.026	19	-0.147	7	-0.005	24	-7.614e-3	7	-1.507e-5	19	-1.948e-4	13
83	F1_N2	max	0.034	13	-0.032	51	0.005	14	6.972e-3	7	1.641e-5	13	2.067e-4	19
84		min	-0.032	19	-0.139	5	-0.005	24	1.607e-3	49	-1.508e-5	19	-2.179e-4	13
85	F1_N3	max	0.027	13	-0.034	51	0.008	13	-1.788e-3	51	1.641e-5	13	1.772e-4	23
86		min	-0.026	19	-0.147	5	-0.006	23	-7.614e-3	5	-1.507e-5	19	-2.084e-4	13
87	F1_N4	max	0.034	13	-0.032	51	0.008	13	6.972e-3	5	1.641e-5	13	1.982e-4	23
88		min	-0.032	19	-0.139	5	-0.006	23	1.607e-3	51	-1.508e-5	19	-2.33e-4	13
89	F1_N5	max	0.04	13	-0.032	49	0.005	14	-1.607e-3	51	1.641e-5	13	2.295e-4	19
90		min	-0.039	19	-0.139	7	-0.005	24	-6.972e-3	5	-1.508e-5	19	-2.419e-4	13
91	F1_N6	max	0.04	13	-0.032	49	0.008	13	-1.607e-3	51	1.641e-5	13	2.2e-4	23
92		min	-0.039	19	-0.139	7	-0.006	23	-6.972e-3	5	-1.508e-5	19	-2.587e-4	13

Envelope Node Displacements (Continued)

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
93	F1_N7	max	0.047	13	-0.034	51	0.005	14	7.824e-3	7	1.641e-5	13	2.514e-4	19
94		min	-0.045	19	-0.147	5	-0.005	24	1.816e-3	49	-1.508e-5	19	-2.649e-4	13
95	F1_N8	max	0.047	13	-0.034	51	0.008	13	7.822e-3	7	1.641e-5	13	2.41e-4	23
96		min	-0.045	19	-0.147	5	-0.006	23	1.815e-3	49	-1.508e-5	19	-2.833e-4	13
97	F1_N9	max	0.054	13	-0.018	49	0.008	13	4.018e-5	13	1.641e-5	13	2.562e-4	23
98		min	-0.051	19	-0.107	7	-0.006	23	-2.986e-5	23	-1.508e-5	19	-3.012e-4	13
99	F1_N11	max	0.056	13	-0.005	51	0.006	15	3.437e-5	15	1.641e-5	13	2.755e-4	19
100		min	-0.053	19	-0.032	5	-0.005	21	-2.643e-5	21	-1.507e-5	19	-2.907e-4	13
101	F1_N14	max	0.061	13	-0.231	51	0.008	13	3.929e-5	13	1.641e-5	13	-1.61e-3	51
102		min	-0.058	19	-1.485	5	-0.006	23	-3.356e-5	23	-1.507e-5	19	-1.031e-2	5
103	F1_N15	max	0.061	13	-0.008	49	0.009	13	4.813e-5	13	1.641e-5	13	3.014e-4	19
104		min	-0.058	19	-0.052	7	-0.008	23	-4.166e-5	23	-1.507e-5	19	-3.188e-4	13
105	F1_N19	max	0.052	13	-0.006	51	0.017	13	3.74e-3	7	1.642e-5	13	-2.275e-3	49
106		min	-0.049	19	-0.048	4	-0.015	23	5.378e-4	49	-1.508e-5	19	-1.636e-2	7
107	F1_N20	max	0.047	13	-0.004	51	0.016	13	2.522e-4	7	1.642e-5	13	2.304e-3	5
108		min	-0.045	19	-0.026	4	-0.014	23	-6.942e-5	21	-1.508e-5	19	-3.452e-4	23
109	F1_N22	max	0.04	13	-0.003	51	0.014	13	3.828e-6	23	1.641e-5	13	2.025e-4	15
110		min	-0.039	19	-0.016	5	-0.012	23	-2.327e-4	13	-1.507e-5	19	-2.048e-4	13
111	F1_N23	max	0.041	13	-0.002	51	0.014	13	7.444e-5	13	1.641e-5	13	2.057e-4	15
112		min	-0.039	19	-0.012	5	-0.012	23	-6.429e-5	23	-1.507e-5	19	-2.066e-4	13
113	F1_N24	max	0.044	13	-0.003	51	0.014	13	5.34e-5	21	1.642e-5	13	4.837e-3	4
114		min	-0.042	19	-0.015	5	-0.012	23	-1.158e-4	15	-1.508e-5	19	6.823e-4	51
115	F1_N25	max	0.047	13	-0.006	49	0.014	13	-1.328e-5	50	1.641e-5	13	2.825e-3	5
116		min	-0.045	19	-0.034	7	-0.012	23	-2.175e-4	8	-1.507e-5	19	-2.041e-4	23
117	F1_N32	max	0.02	13	-0.006	49	0.005	14	2.808e-5	14	1.641e-5	13	1.69e-4	19
118		min	-0.02	15	-0.022	7	-0.005	24	-2.384e-5	24	-1.507e-5	19	-1.781e-4	13
119	F1_N33	max	0.02	13	-0.006	51	0.008	13	3.921e-5	13	1.641e-5	13	1.62e-4	23
120		min	-0.02	15	-0.022	5	-0.006	23	-3.209e-5	23	-1.507e-5	19	-1.904e-4	13
121	F1_N35	max	0.054	13	-0.058	49	0.017	13	5.48e-4	7	1.642e-5	13	-5.37e-4	49
122		min	-0.051	19	-0.443	7	-0.015	23	-2.231e-5	21	-1.508e-5	19	-7.481e-3	7
123	F1_N36	max	0.054	13	-0.302	49	0.014	13	3.7e-4	7	1.642e-5	13	-6.926e-4	49
124		min	-0.051	19	-2.138	7	-0.012	23	-3.508e-6	21	-1.508e-5	19	-4.678e-3	7
125	F1_N37	max	0.056	13	-0.356	49	0.014	13	2.04e-3	5	1.641e-5	13	-4.854e-4	51
126		min	-0.053	19	-2.65	7	-0.012	23	1.085e-4	51	-1.508e-5	19	-3.443e-3	5
127	F1_N38	max	0.052	13	-0.411	49	0.014	13	-4.068e-4	49	1.641e-5	13	1.e-2	7
128		min	-0.049	19	-2.829	7	-0.012	23	-2.081e-3	7	-1.507e-5	19	1.848e-3	49
129	F1_N40	max	0.056	13	-0.302	49	0.008	13	1.505e-2	5	1.641e-5	13	-2.678e-4	51
130		min	-0.053	19	-2.039	7	-0.006	23	2.219e-3	51	-1.508e-5	19	-2.609e-3	5
131	F1_N41	max	0.056	13	-0.255	49	0.005	14	1.209e-2	7	1.642e-5	13	2.754e-4	19
132		min	-0.053	19	-1.75	7	-0.005	24	1.747e-3	49	-1.508e-5	19	-2.905e-4	13
133	F1_N42	max	0.028	13	0.215	7	0.005	14	-1.362e-3	49	1.641e-5	13	1.872e-4	19
134		min	-0.027	19	0.051	49	-0.005	24	-5.76e-3	7	-1.508e-5	19	-1.973e-4	13
135	F1_N43	max	0.028	13	0.215	5	0.008	13	-1.362e-3	51	1.641e-5	13	1.794e-4	23
136		min	-0.027	19	0.051	51	-0.006	23	-5.761e-3	5	-1.508e-5	19	-2.11e-4	13
137	F1_N44	max	0.033	13	0.131	5	0.008	13	3.994e-3	5	1.641e-5	13	1.95e-4	23
138		min	-0.032	19	0.03	51	-0.006	23	9.235e-4	51	-1.508e-5	19	-2.293e-4	13
139	F1_N45	max	0.033	13	0.131	7	0.005	14	3.994e-3	7	1.641e-5	13	2.035e-4	19
140		min	-0.032	19	0.03	49	-0.005	24	9.235e-4	49	-1.508e-5	19	-2.144e-4	13
141	F1_N46	max	0.041	13	0.131	5	0.005	14	-9.235e-4	51	1.641e-5	13	2.328e-4	19
142		min	-0.04	19	0.03	51	-0.005	24	-3.994e-3	5	-1.508e-5	19	-2.453e-4	13
143	F1_N47	max	0.041	13	0.131	5	0.008	13	-9.234e-4	51	1.641e-5	13	2.231e-4	23
144		min	-0.04	19	0.03	51	-0.006	23	-3.994e-3	5	-1.508e-5	19	-2.624e-4	13
145	F1_N48	max	0.046	13	0.228	7	0.008	13	5.969e-3	7	1.642e-5	13	2.387e-4	23
146		min	-0.044	19	0.053	49	-0.006	23	1.39e-3	49	-1.508e-5	19	-2.807e-4	13
147	F1_N49	max	0.046	13	0.228	7	0.005	14	5.971e-3	7	1.642e-5	13	2.491e-4	19
148		min	-0.044	19	0.053	49	-0.005	24	1.39e-3	49	-1.508e-5	19	-2.625e-4	13
149	F1_N50	max	0.027	13	-0.004	51	0.014	13	-1.105e-3	51	1.641e-5	13	1.508e-4	19
150		min	-0.026	19	-0.012	5	-0.012	23	-4.705e-3	5	-1.507e-5	19	-1.541e-4	13

Envelope Node Displacements (Continued)

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
151	F1_N51	max	0.027	13	-0.004	49	0.006	15	-1.113e-3	49	1.641e-5	13	1.418e-4	19
152		min	-0.026	19	-0.012	7	-0.005	21	-4.739e-3	7	-1.507e-5	19	-1.435e-4	13
153	F1_N52	max	0.034	13	-0.004	49	0.014	13	4.347e-3	5	1.641e-5	13	1.598e-4	19
154		min	-0.032	19	-0.012	7	-0.012	23	1.002e-3	51	-1.507e-5	19	-1.655e-4	13
155	F1_N53	max	0.034	13	-0.004	52	0.006	15	4.345e-3	7	1.642e-5	13	1.751e-4	19
156		min	-0.032	19	-0.012	6	-0.005	21	1.002e-3	49	-1.508e-5	19	-1.806e-4	13
157	F1_N54	max	0.04	13	-0.004	50	0.006	15	-1.002e-3	51	1.641e-5	13	1.994e-4	19
158		min	-0.039	19	-0.012	8	-0.005	21	-4.344e-3	5	-1.507e-5	19	-2.081e-4	13
159	F1_N55	max	0.047	13	-0.004	49	0.006	15	4.826e-3	7	1.641e-5	13	2.441e-4	19
160		min	-0.045	19	-0.012	7	-0.005	21	1.12e-3	49	-1.508e-5	19	-2.552e-4	13
161	F1_N56	max	0.021	13	-0.175	49	0.005	14	1.107e-2	5	1.641e-5	13	1.712e-4	19
162		min	-0.021	15	-0.749	7	-0.005	24	2.573e-3	51	-1.508e-5	19	-1.805e-4	13
163	F1_N57	max	0.021	13	-0.002	51	0.006	15	6.905e-3	5	1.641e-5	13	9.265e-5	15
164		min	-0.021	15	-0.012	5	-0.005	21	1.605e-3	51	-1.508e-5	19	-7.954e-5	21
165	F1_N58	max	0.022	13	-0.305	49	0.005	14	7.141e-3	5	1.641e-5	13	1.735e-4	19
166		min	-0.022	15	-1.305	7	-0.005	24	1.66e-3	51	-1.508e-5	19	-1.829e-4	13
167	F1_N59	max	0.022	13	-0.003	51	0.006	15	4.415e-3	5	1.641e-5	13	1.143e-4	15
168		min	-0.022	15	-0.013	5	-0.005	21	1.026e-3	51	-1.508e-5	19	-1.04e-4	21
169	F1_N60	max	0.023	13	-0.369	49	0.005	14	1.978e-3	5	1.641e-5	13	1.758e-4	19
170		min	-0.023	19	-1.58	7	-0.005	24	4.589e-4	51	-1.508e-5	19	-1.852e-4	13
171	F1_N61	max	0.023	13	-0.004	51	0.006	15	1.222e-3	5	1.641e-5	13	1.223e-4	15
172		min	-0.023	19	-0.013	5	-0.005	21	2.834e-4	51	-1.508e-5	19	-1.162e-4	21
173	F1_N62	max	0.024	13	-0.358	49	0.005	14	-7.607e-4	49	1.641e-5	13	1.781e-4	19
174		min	-0.023	19	-1.536	7	-0.005	24	-3.263e-3	7	-1.508e-5	19	-1.876e-4	13
175	F1_N63	max	0.024	13	-0.004	51	0.006	15	-4.732e-4	49	1.641e-5	13	1.209e-4	15
176		min	-0.023	19	-0.012	5	-0.005	21	-2.03e-3	7	-1.508e-5	19	-1.182e-4	13
177	F1_N64	max	0.025	13	-0.281	49	0.005	14	-1.722e-3	49	1.641e-5	13	1.803e-4	19
178		min	-0.024	19	-1.205	7	-0.005	24	-7.386e-3	7	-1.508e-5	19	-1.9e-4	13
179	F1_N65	max	0.025	13	-0.004	49	0.006	15	-1.069e-3	49	1.641e-5	13	1.3e-4	19
180		min	-0.024	19	-0.012	7	-0.005	21	-4.585e-3	7	-1.508e-5	19	-1.294e-4	13
181	F1_N66	max	0.026	13	-0.16	49	0.005	14	-2.156e-3	49	1.641e-5	13	1.826e-4	19
182		min	-0.025	19	-0.685	7	-0.005	24	-9.23e-3	7	-1.508e-5	19	-1.924e-4	13
183	F1_N67	max	0.026	13	-0.004	49	0.006	15	-1.332e-3	49	1.641e-5	13	1.397e-4	19
184		min	-0.025	19	-0.012	7	-0.005	21	-5.703e-3	7	-1.508e-5	19	-1.405e-4	13
185	F1_N68	max	0.028	13	-0.004	49	0.006	15	-8.474e-4	49	1.641e-5	13	1.386e-4	19
186		min	-0.027	19	-0.012	7	-0.005	21	-3.585e-3	7	-1.508e-5	19	-1.415e-4	13
187	F1_N69	max	0.029	13	-0.086	51	0.005	14	8.238e-3	7	1.641e-5	13	1.904e-4	19
188		min	-0.028	19	-0.379	5	-0.005	24	1.902e-3	49	-1.508e-5	19	-2.007e-4	13
189	F1_N70	max	0.029	13	-0.004	49	0.006	15	5.215e-3	7	1.641e-5	13	1.43e-4	19
190		min	-0.028	19	-0.012	7	-0.005	21	1.204e-3	49	-1.508e-5	19	-1.464e-4	13
191	F1_N71	max	0.03	13	-0.17	51	0.005	14	3.264e-3	7	1.641e-5	13	1.937e-4	19
192		min	-0.029	19	-0.743	5	-0.005	24	7.571e-4	49	-1.508e-5	19	-2.041e-4	13
193	F1_N72	max	0.03	13	-0.004	49	0.006	15	2.039e-3	7	1.641e-5	13	1.561e-4	19
194		min	-0.029	19	-0.012	7	-0.005	21	4.73e-4	49	-1.508e-5	19	-1.597e-4	13
195	F1_N73	max	0.031	13	-0.174	51	0.005	14	-6.166e-4	51	1.641e-5	13	1.97e-4	19
196		min	-0.03	19	-0.76	5	-0.005	24	-2.704e-3	5	-1.508e-5	19	-2.076e-4	13
197	F1_N74	max	0.031	13	-0.004	49	0.006	15	-3.81e-4	51	1.641e-5	13	1.625e-4	19
198		min	-0.03	19	-0.012	7	-0.005	21	-1.671e-3	5	-1.508e-5	19	-1.666e-4	13
199	F1_N75	max	0.032	13	-0.098	51	0.005	14	-1.762e-3	51	1.641e-5	13	2.002e-4	19
200		min	-0.031	19	-0.429	5	-0.005	24	-7.678e-3	5	-1.508e-5	19	-2.11e-4	13
201	F1_N76	max	0.032	13	-0.004	52	0.006	15	-1.093e-3	51	1.641e-5	13	1.67e-4	19
202		min	-0.031	19	-0.012	6	-0.005	21	-4.762e-3	5	-1.508e-5	19	-1.716e-4	13
203	F1_N77	max	0.033	13	-0.004	49	0.006	15	2.487e-3	7	1.641e-5	13	1.614e-4	19
204		min	-0.032	19	-0.012	7	-0.005	21	5.751e-4	49	-1.508e-5	19	-1.667e-4	13
205	F1_N78	max	0.034	13	-0.163	49	0.005	14	9.95e-3	7	1.641e-5	13	2.1e-4	19
206		min	-0.033	19	-0.706	7	-0.005	24	2.291e-3	49	-1.508e-5	19	-2.213e-4	13
207	F1_N79	max	0.034	13	-0.004	50	0.006	15	6.155e-3	7	1.641e-5	13	1.813e-4	19
208		min	-0.033	19	-0.012	8	-0.005	21	1.417e-3	49	-1.508e-5	19	-1.87e-4	13

Envelope Node Displacements (Continued)

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
209	F1_N80	max	0.035	13	-0.295	52	0.005	14	7.958e-3	5	1.641e-5	13	2.133e-4	19
210		min	-0.034	19	-1.282	6	-0.005	24	1.832e-3	51	-1.508e-5	19	-2.247e-4	13
211	F1_N81	max	0.035	13	-0.004	52	0.006	15	4.914e-3	5	1.641e-5	13	1.869e-4	19
212		min	-0.034	19	-0.012	6	-0.005	21	1.131e-3	51	-1.508e-5	19	-1.932e-4	13
213	F1_N82	max	0.036	13	-0.375	52	0.005	14	2.984e-3	5	1.641e-5	13	2.165e-4	19
214		min	-0.035	19	-1.63	4	-0.005	24	6.869e-4	51	-1.508e-5	19	-2.282e-4	13
215	F1_N83	max	0.036	13	-0.004	50	0.006	15	1.86e-3	5	1.641e-5	13	1.797e-4	19
216		min	-0.035	19	-0.012	8	-0.005	21	4.28e-4	51	-1.508e-5	19	-1.866e-4	13
217	F1_N84	max	0.037	13	-0.375	51	0.005	14	-6.869e-4	49	1.641e-5	13	2.198e-4	19
218		min	-0.036	19	-1.63	4	-0.005	24	-2.984e-3	7	-1.508e-5	19	-2.316e-4	13
219	F1_N85	max	0.037	13	-0.004	52	0.006	15	-4.265e-4	49	1.641e-5	13	1.909e-4	19
220		min	-0.036	19	-0.012	6	-0.005	21	-1.853e-3	7	-1.508e-5	19	-1.981e-4	13
221	F1_N86	max	0.038	13	-0.295	51	0.005	14	-1.832e-3	52	1.641e-5	13	2.23e-4	19
222		min	-0.037	19	-1.282	5	-0.005	24	-7.958e-3	6	-1.508e-5	19	-2.35e-4	13
223	F1_N87	max	0.038	13	-0.004	52	0.006	15	-1.131e-3	52	1.641e-5	13	2.012e-4	19
224		min	-0.037	19	-0.012	6	-0.005	21	-4.914e-3	6	-1.508e-5	19	-2.087e-4	13
225	F1_N88	max	0.039	13	-0.163	51	0.005	14	-2.291e-3	51	1.642e-5	13	2.263e-4	19
226		min	-0.038	19	-0.706	5	-0.005	24	-9.95e-3	5	-1.508e-5	19	-2.385e-4	13
227	F1_N89	max	0.039	13	-0.004	52	0.006	15	-1.414e-3	51	1.642e-5	13	2.031e-4	19
228		min	-0.038	19	-0.012	6	-0.005	21	-6.143e-3	5	-1.508e-5	19	-2.111e-4	13
229	F1_N90	max	0.041	13	-0.004	49	0.006	15	-5.729e-4	51	1.642e-5	13	2.105e-4	19
230		min	-0.04	19	-0.012	7	-0.005	21	-2.478e-3	5	-1.508e-5	19	-2.194e-4	13
231	F1_N91	max	0.042	13	-0.098	50	0.005	14	7.636e-3	5	1.642e-5	13	2.361e-4	19
232		min	-0.041	19	-0.426	4	-0.005	24	1.756e-3	51	-1.508e-5	19	-2.488e-4	13
233	F1_N92	max	0.042	13	-0.004	49	0.006	15	4.726e-3	5	1.641e-5	13	2.203e-4	19
234		min	-0.041	19	-0.012	7	-0.005	21	1.087e-3	51	-1.508e-5	19	-2.295e-4	13
235	F1_N93	max	0.043	13	-0.173	51	0.005	14	2.662e-3	5	1.641e-5	13	2.393e-4	19
236		min	-0.041	19	-0.755	5	-0.005	24	6.11e-4	51	-1.508e-5	19	-2.522e-4	13
237	F1_N94	max	0.043	13	-0.004	49	0.006	15	1.644e-3	5	1.641e-5	13	2.212e-4	19
238		min	-0.041	19	-0.012	7	-0.005	21	3.773e-4	51	-1.508e-5	19	-2.308e-4	13
239	F1_N95	max	0.044	13	-0.169	51	0.005	14	-7.627e-4	49	1.641e-5	13	2.426e-4	19
240		min	-0.042	19	-0.736	5	-0.005	24	-3.306e-3	7	-1.508e-5	19	-2.556e-4	13
241	F1_N96	max	0.044	13	-0.004	49	0.006	15	-4.756e-4	49	1.641e-5	13	2.187e-4	19
242		min	-0.042	19	-0.012	7	-0.005	21	-2.061e-3	7	-1.508e-5	19	-2.289e-4	13
243	F1_N97	max	0.045	13	-0.084	51	0.005	14	-1.908e-3	49	1.641e-5	13	2.458e-4	19
244		min	-0.043	19	-0.368	5	-0.005	24	-8.28e-3	7	-1.508e-5	19	-2.591e-4	13
245	F1_N98	max	0.045	13	-0.004	49	0.006	15	-1.218e-3	49	1.642e-5	13	2.233e-4	19
246		min	-0.043	19	-0.012	7	-0.005	21	-5.284e-3	7	-1.508e-5	19	-2.339e-4	13
247	F1_N99	max	0.046	13	-0.004	49	0.006	15	3.737e-3	7	1.641e-5	13	2.379e-4	19
248		min	-0.044	19	-0.012	7	-0.005	21	8.7e-4	49	-1.508e-5	19	-2.486e-4	13
249	F1_N100	max	0.048	13	-0.162	49	0.005	14	9.44e-3	5	1.641e-5	13	2.537e-4	19
250		min	-0.046	19	-0.697	8	-0.005	24	2.184e-3	50	-1.508e-5	19	-2.673e-4	13
251	F1_N101	max	0.048	13	-0.004	49	0.006	15	5.917e-3	5	1.641e-5	13	2.519e-4	19
252		min	-0.046	19	-0.012	7	-0.005	21	1.369e-3	50	-1.508e-5	19	-2.633e-4	13
253	F1_N102	max	0.049	13	-0.285	51	0.005	14	7.596e-3	5	1.641e-5	13	2.56e-4	19
254		min	-0.047	19	-1.23	5	-0.005	24	1.75e-3	51	-1.508e-5	19	-2.697e-4	13
255	F1_N103	max	0.049	13	-0.004	49	0.006	15	4.718e-3	5	1.641e-5	13	2.45e-4	19
256		min	-0.047	19	-0.012	7	-0.005	21	1.087e-3	51	-1.508e-5	19	-2.568e-4	13
257	F1_N104	max	0.05	13	-0.363	51	0.005	14	3.473e-3	5	1.641e-5	13	2.582e-4	19
258		min	-0.048	19	-1.573	5	-0.005	24	7.889e-4	51	-1.508e-5	19	-2.721e-4	13
259	F1_N105	max	0.05	13	-0.004	51	0.006	15	2.17e-3	5	1.641e-5	13	2.609e-4	19
260		min	-0.048	19	-0.012	5	-0.005	21	4.929e-4	51	-1.508e-5	19	-2.727e-4	13
261	F1_N106	max	0.051	13	-0.375	51	0.005	14	-4.309e-4	49	1.641e-5	13	2.605e-4	19
262		min	-0.049	19	-1.629	5	-0.005	24	-1.767e-3	7	-1.508e-5	19	-2.745e-4	13
263	F1_N107	max	0.051	13	-0.004	51	0.006	15	-2.664e-4	49	1.641e-5	13	2.749e-4	19
264		min	-0.049	19	-0.013	5	-0.005	21	-1.093e-3	7	-1.508e-5	19	-2.866e-4	13
265	F1_N108	max	0.052	13	-0.313	51	0.005	14	-1.632e-3	49	1.641e-5	13	2.628e-4	19
266		min	-0.05	19	-1.366	5	-0.005	24	-6.93e-3	7	-1.508e-5	19	-2.769e-4	13

Envelope Node Displacements (Continued)

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
267	F1_N109	max	0.052	13	-0.003	51	0.006	15	-1.019e-3	49	1.641e-5	13	2.903e-4	19
268		min	-0.05	19	-0.014	5	-0.005	21	-4.33e-3	7	-1.508e-5	19	-3.03e-4	13
269	F1_N110	max	0.053	13	-0.185	51	0.005	14	-2.545e-3	49	1.641e-5	13	2.65e-4	19
270		min	-0.05	19	-0.823	5	-0.005	24	-1.086e-2	7	-1.508e-5	19	-2.793e-4	13
271	F1_N111	max	0.053	13	-0.001	23	0.006	15	-1.583e-3	49	1.641e-5	13	2.989e-4	19
272		min	-0.05	19	-0.018	5	-0.005	21	-6.752e-3	7	-1.508e-5	19	-3.19e-4	13
273	F1_N112	max	0.048	13	-0.162	49	0.008	13	9.438e-3	7	1.641e-5	13	2.431e-4	23
274		min	-0.046	19	-0.697	7	-0.006	23	2.184e-3	49	-1.508e-5	19	-2.859e-4	13
275	F1_N113	max	0.049	13	-0.285	49	0.008	13	7.594e-3	7	1.641e-5	13	2.453e-4	23
276		min	-0.047	19	-1.23	7	-0.006	23	1.75e-3	49	-1.508e-5	19	-2.884e-4	13
277	F1_N114	max	0.05	13	-0.363	49	0.008	13	3.471e-3	7	1.641e-5	13	2.475e-4	23
278		min	-0.048	19	-1.573	7	-0.006	23	7.886e-4	49	-1.508e-5	19	-2.91e-4	13
279	F1_N115	max	0.051	13	-0.375	49	0.008	13	-4.306e-4	51	1.641e-5	13	2.497e-4	23
280		min	-0.049	19	-1.629	7	-0.006	23	-1.77e-3	5	-1.508e-5	19	-2.936e-4	13
281	F1_N116	max	0.052	13	-0.313	49	0.008	13	-1.632e-3	51	1.641e-5	13	2.518e-4	23
282		min	-0.05	19	-1.366	7	-0.006	23	-6.932e-3	5	-1.508e-5	19	-2.961e-4	13
283	F1_N117	max	0.053	13	-0.185	49	0.008	13	-2.545e-3	51	1.641e-5	13	2.54e-4	23
284		min	-0.05	19	-0.822	7	-0.006	23	-1.086e-2	5	-1.508e-5	19	-2.987e-4	13
285	F1_N118	max	0.042	13	-0.098	51	0.008	13	7.637e-3	5	1.641e-5	13	2.263e-4	23
286		min	-0.041	19	-0.426	5	-0.006	23	1.756e-3	51	-1.508e-5	19	-2.66e-4	13
287	F1_N119	max	0.043	13	-0.173	51	0.008	13	2.662e-3	5	1.641e-5	13	2.294e-4	23
288		min	-0.041	19	-0.755	5	-0.006	23	6.109e-4	51	-1.508e-5	19	-2.697e-4	13
289	F1_N120	max	0.044	13	-0.169	51	0.008	13	-7.627e-4	49	1.641e-5	13	2.325e-4	23
290		min	-0.042	19	-0.736	5	-0.006	23	-3.306e-3	7	-1.508e-5	19	-2.734e-4	13
291	F1_N121	max	0.045	13	-0.084	51	0.008	13	-1.908e-3	49	1.641e-5	13	2.356e-4	23
292		min	-0.043	19	-0.369	5	-0.006	23	-8.28e-3	7	-1.508e-5	19	-2.77e-4	13
293	F1_N122	max	0.034	13	-0.163	51	0.008	13	9.95e-3	5	1.641e-5	13	2.013e-4	23
294		min	-0.033	19	-0.706	5	-0.006	23	2.291e-3	51	-1.508e-5	19	-2.367e-4	13
295	F1_N123	max	0.035	13	-0.295	51	0.008	13	7.958e-3	5	1.641e-5	13	2.044e-4	23
296		min	-0.034	19	-1.282	5	-0.006	23	1.832e-3	51	-1.508e-5	19	-2.403e-4	13
297	F1_N124	max	0.036	13	-0.375	51	0.008	13	2.984e-3	5	1.641e-5	13	2.075e-4	23
298		min	-0.035	19	-1.63	5	-0.006	23	6.868e-4	51	-1.508e-5	19	-2.44e-4	13
299	F1_N125	max	0.037	13	-0.375	51	0.008	13	-6.869e-4	49	1.641e-5	13	2.106e-4	23
300		min	-0.036	19	-1.63	5	-0.006	23	-2.984e-3	7	-1.508e-5	19	-2.477e-4	13
301	F1_N126	max	0.038	13	-0.295	51	0.008	13	-1.832e-3	51	1.641e-5	13	2.138e-4	23
302		min	-0.037	19	-1.282	5	-0.006	23	-7.958e-3	5	-1.508e-5	19	-2.513e-4	13
303	F1_N127	max	0.039	13	-0.163	51	0.008	13	-2.291e-3	51	1.641e-5	13	2.169e-4	23
304		min	-0.038	19	-0.706	5	-0.006	23	-9.95e-3	5	-1.508e-5	19	-2.55e-4	13
305	F1_N128	max	0.029	13	-0.086	49	0.008	13	8.238e-3	5	1.641e-5	13	1.825e-4	23
306		min	-0.028	19	-0.379	7	-0.006	23	1.902e-3	51	-1.508e-5	19	-2.146e-4	13
307	F1_N129	max	0.03	13	-0.17	49	0.008	13	3.264e-3	5	1.641e-5	13	1.857e-4	23
308		min	-0.029	19	-0.743	7	-0.006	23	7.571e-4	51	-1.508e-5	19	-2.183e-4	13
309	F1_N130	max	0.031	13	-0.174	49	0.008	13	-6.166e-4	49	1.641e-5	13	1.888e-4	23
310		min	-0.03	19	-0.76	7	-0.006	23	-2.704e-3	7	-1.508e-5	19	-2.22e-4	13
311	F1_N131	max	0.032	13	-0.098	49	0.008	13	-1.762e-3	49	1.641e-5	13	1.919e-4	23
312		min	-0.031	19	-0.429	7	-0.006	23	-7.678e-3	7	-1.508e-5	19	-2.256e-4	13
313	F1_N132	max	0.021	13	-0.175	51	0.008	13	1.107e-2	7	1.641e-5	13	1.641e-4	23
314		min	-0.021	15	-0.749	5	-0.006	23	2.573e-3	49	-1.508e-5	19	-1.93e-4	13
315	F1_N133	max	0.022	13	-0.305	51	0.008	13	7.14e-3	7	1.641e-5	13	1.663e-4	23
316		min	-0.022	15	-1.305	5	-0.006	23	1.66e-3	49	-1.508e-5	19	-1.956e-4	13
317	F1_N134	max	0.023	13	-0.369	51	0.008	13	1.977e-3	7	1.641e-5	13	1.685e-4	23
318		min	-0.023	19	-1.58	5	-0.006	23	4.588e-4	49	-1.508e-5	19	-1.981e-4	13
319	F1_N135	max	0.024	13	-0.358	51	0.008	13	-7.607e-4	51	1.641e-5	13	1.707e-4	23
320		min	-0.023	19	-1.536	5	-0.006	23	-3.263e-3	5	-1.508e-5	19	-2.007e-4	13
321	F1_N136	max	0.025	13	-0.281	51	0.008	13	-1.722e-3	51	1.641e-5	13	1.728e-4	23
322		min	-0.024	19	-1.205	5	-0.006	23	-7.386e-3	5	-1.508e-5	19	-2.032e-4	13
323	F1_N137	max	0.026	13	-0.16	51	0.008	13	-2.156e-3	51	1.641e-5	13	1.75e-4	23
324		min	-0.025	19	-0.685	5	-0.006	23	-9.23e-3	5	-1.508e-5	19	-2.058e-4	13

Envelope Node Displacements (Continued)

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
325	F1_N138	max	0.021	13	-0.001	49	0.014	13	6.889e-3	7	1.641e-5	13	7.994e-5	23
326		min	-0.021	15	-0.012	7	-0.012	23	1.601e-3	49	-1.508e-5	19	-9.437e-5	13
327	F1_N139	max	0.022	13	-0.003	49	0.014	13	4.419e-3	7	1.641e-5	13	1.134e-4	23
328		min	-0.022	15	-0.013	7	-0.012	23	1.027e-3	49	-1.508e-5	19	-1.247e-4	13
329	F1_N140	max	0.023	13	-0.004	49	0.014	13	1.223e-3	7	1.641e-5	13	1.251e-4	23
330		min	-0.023	19	-0.013	7	-0.012	23	2.838e-4	49	-1.508e-5	19	-1.33e-4	13
331	F1_N141	max	0.024	13	-0.004	49	0.014	13	-4.717e-4	51	1.641e-5	13	1.264e-4	23
332		min	-0.023	19	-0.012	7	-0.012	23	-2.023e-3	5	-1.508e-5	19	-1.32e-4	13
333	F1_N142	max	0.025	13	-0.004	50	0.014	13	-1.072e-3	51	1.641e-5	13	1.186e-4	19
334		min	-0.024	19	-0.012	7	-0.012	23	-4.598e-3	5	-1.508e-5	19	-1.23e-4	13
335	F1_N143	max	0.026	13	-0.004	51	0.014	13	-1.33e-3	51	1.641e-5	13	1.442e-4	19
336		min	-0.025	19	-0.012	5	-0.012	23	-5.694e-3	5	-1.508e-5	19	-1.476e-4	13
337	F1_N144	max	0.028	13	-0.004	51	0.014	13	-8.498e-4	51	1.641e-5	13	1.492e-4	19
338		min	-0.027	19	-0.012	5	-0.012	23	-3.595e-3	5	-1.508e-5	19	-1.527e-4	13
339	F1_N145	max	0.029	13	-0.004	51	0.014	13	5.185e-3	5	1.641e-5	13	1.396e-4	19
340		min	-0.028	19	-0.012	5	-0.012	23	1.197e-3	51	-1.508e-5	19	-1.435e-4	13
341	F1_N146	max	0.03	13	-0.004	50	0.014	13	2.028e-3	5	1.641e-5	13	1.633e-4	19
342		min	-0.029	19	-0.012	8	-0.012	23	4.704e-4	51	-1.508e-5	19	-1.671e-4	13
343	F1_N147	max	0.031	13	-0.004	50	0.014	13	-3.808e-4	49	1.641e-5	13	1.729e-4	19
344		min	-0.03	19	-0.012	7	-0.012	23	-1.67e-3	7	-1.508e-5	19	-1.771e-4	13
345	F1_N148	max	0.032	13	-0.004	49	0.014	13	-1.101e-3	49	1.641e-5	13	1.711e-4	19
346		min	-0.031	19	-0.012	7	-0.012	23	-4.8e-3	7	-1.508e-5	19	-1.757e-4	13
347	F1_N149	max	0.033	13	-0.004	49	0.014	13	2.534e-3	5	1.641e-5	13	1.627e-4	19
348		min	-0.032	19	-0.012	7	-0.012	23	5.86e-4	51	-1.508e-5	19	-1.68e-4	13
349	F1_N150	max	0.034	13	-0.004	49	0.014	13	6.135e-3	5	1.641e-5	13	1.898e-4	19
350		min	-0.033	19	-0.012	7	-0.012	23	1.413e-3	51	-1.508e-5	19	-1.956e-4	13
351	F1_N151	max	0.035	13	-0.004	51	0.014	13	4.973e-3	5	1.641e-5	13	1.877e-4	19
352		min	-0.034	19	-0.012	5	-0.012	23	1.145e-3	51	-1.508e-5	19	-1.94e-4	13
353	F1_N152	max	0.036	13	-0.004	51	0.014	13	1.903e-3	5	1.641e-5	13	1.802e-4	19
354		min	-0.035	19	-0.013	5	-0.012	23	4.381e-4	51	-1.508e-5	19	-1.871e-4	13
355	F1_N153	max	0.037	13	-0.004	51	0.014	13	-4.28e-4	49	1.641e-5	13	1.802e-4	19
356		min	-0.036	19	-0.014	5	-0.012	23	-1.859e-3	7	-1.508e-5	19	-1.875e-4	13
357	F1_N154	max	0.038	13	-0.003	51	0.014	13	-1.156e-3	51	1.641e-5	13	2.177e-4	19
358		min	-0.037	19	-0.015	5	-0.012	23	-5.021e-3	5	-1.508e-5	19	-2.249e-4	13
359	F1_N155	max	0.039	13	-0.002	51	0.014	13	-1.359e-3	51	1.642e-5	13	2.124e-4	19
360		min	-0.038	19	-0.019	5	-0.012	23	-5.903e-3	5	-1.508e-5	19	-2.2e-4	13
361	F1_N156	max	0.041	13	-0.023	51	0.014	13	1.499e-3	5	1.642e-5	13	1.255e-3	7
362		min	-0.04	19	-0.113	5	-0.012	23	3.027e-4	51	-1.508e-5	19	1.077e-4	49
363	F1_N157	max	0.042	13	-0.031	51	0.014	13	-8.082e-5	49	1.642e-5	13	2.731e-3	4
364		min	-0.041	19	-0.152	5	-0.012	23	-4.144e-4	4	-1.508e-5	19	3.905e-4	49
365	F1_N158	max	0.043	13	-0.014	51	0.014	13	-3.979e-4	49	1.641e-5	13	4.236e-3	4
366		min	-0.041	19	-0.069	5	-0.012	23	-1.962e-3	4	-1.508e-5	19	6.126e-4	51
367	F1_N159	max	0.044	13	-0.026	49	0.014	13	2.868e-3	7	1.641e-5	13	4.456e-3	4
368		min	-0.042	19	-0.136	7	-0.012	23	5.466e-4	49	-1.508e-5	19	5.55e-4	51
369	F1_N160	max	0.045	13	-0.049	49	0.014	13	6.418e-4	7	1.641e-5	13	3.877e-3	5
370		min	-0.043	19	-0.254	7	-0.012	23	1.143e-4	49	-1.508e-5	19	3.428e-4	51
371	F1_N161	max	0.046	13	-0.039	49	0.014	13	-3.814e-4	51	1.642e-5	13	3.351e-3	5
372		min	-0.044	19	-0.206	7	-0.012	23	-1.991e-3	5	-1.508e-5	19	1.306e-4	51
373	F1_N162	max	0.048	13	-0.169	49	0.014	13	1.7e-2	7	1.641e-5	13	4.298e-3	5
374		min	-0.046	19	-1.111	7	-0.012	23	2.556e-3	49	-1.508e-5	19	3.677e-4	51
375	F1_N163	max	0.049	13	-0.303	49	0.014	13	1.276e-2	7	1.641e-5	13	5.775e-3	5
376		min	-0.047	19	-2.009	7	-0.012	23	1.876e-3	49	-1.508e-5	19	8.179e-4	51
377	F1_N164	max	0.05	13	-0.388	49	0.014	13	7.194e-3	7	1.641e-5	13	7.248e-3	5
378		min	-0.048	19	-2.604	7	-0.012	23	9.959e-4	49	-1.508e-5	19	1.267e-3	51
379	F1_N165	max	0.051	13	-0.42	49	0.014	13	1.481e-3	7	1.641e-5	13	8.763e-3	6
380		min	-0.049	19	-2.852	7	-0.012	23	1.178e-4	49	-1.508e-5	19	1.663e-3	52
381	F1_N166	max	0.052	13	-0.404	49	0.014	13	-5.339e-4	49	1.641e-5	13	1.041e-2	7
382		min	-0.05	19	-2.789	7	-0.012	23	-2.991e-3	7	-1.508e-5	19	1.896e-3	49

Envelope Node Displacements (Continued)

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
383	F1_N167	max	0.053	13	-0.361	49	0.014	13	-8.819e-4	49	1.641e-5	13	4.175e-3	7
384		min	-0.05	19	-2.524	7	-0.012	23	-5.627e-3	7	-1.508e-5	19	8.14e-4	49
385	F1_N168	max	0.042	13	-0.021	51	0.015	13	-2.805e-5	49	1.641e-5	13	1.97e-3	4
386		min	-0.04	19	-0.185	5	-0.013	23	-2.749e-4	4	-1.507e-5	19	2.494e-4	49
387	F1_N169	max	0.042	13	-0.031	51	0.014	13	3.116e-5	5	1.641e-5	13	2.419e-3	4
388		min	-0.04	19	-0.154	5	-0.012	23	7.159e-6	51	-1.507e-5	19	3.317e-4	49
389	F1_N174	max	0.046	13	-0.049	49	0.014	13	5.702e-5	7	1.641e-5	13	3.772e-3	5
390		min	-0.043	19	-0.259	7	-0.012	23	4.972e-6	49	-1.507e-5	19	3.003e-4	51
391	F1_N175	max	0.049	13	-0.069	51	0.016	13	6.64e-3	7	1.641e-5	13	-2.882e-4	49
392		min	-0.046	19	-0.935	4	-0.014	23	4.665e-4	49	-1.507e-5	19	-4.261e-3	7
393	F1_N176	max	0.049	13	-0.252	49	0.014	13	1.476e-2	7	1.641e-5	13	5.164e-3	5
394		min	-0.046	19	-1.67	7	-0.012	23	2.196e-3	49	-1.507e-5	19	6.317e-4	51
395	F1_N177	max	0.05	13	-0.071	51	0.016	13	-2.887e-5	51	1.641e-5	13	-1.432e-3	49
396		min	-0.048	19	-0.965	4	-0.015	23	-3.411e-3	5	-1.507e-5	19	-1.218e-2	7
397	F1_N178	max	0.05	13	-0.398	49	0.014	13	6.155e-3	7	1.641e-5	13	7.504e-3	5
398		min	-0.048	19	-2.672	7	-0.012	23	8.35e-4	49	-1.507e-5	19	1.345e-3	51
399	F1_N179	max	0.053	13	-0.044	49	0.017	13	5.121e-3	7	1.641e-5	13	-1.338e-3	49
400		min	-0.05	19	-0.337	7	-0.015	23	6.382e-4	49	-1.507e-5	19	-1.137e-2	7
401	F1_N180	max	0.053	13	-0.367	49	0.014	13	-8.448e-4	49	1.641e-5	13	5.259e-3	7
402		min	-0.05	19	-2.565	7	-0.012	23	-5.344e-3	7	-1.507e-5	19	9.985e-4	49
403	F1_N181	max	0.057	13	-0.047	52	0.018	13	2.22e-3	7	1.641e-5	13	1.754e-3	5
404		min	-0.054	19	-0.586	4	-0.016	23	7.861e-5	49	-1.507e-5	19	-1.439e-4	23
405	F1_N182	max	0.057	13	-0.329	49	0.014	13	-8.005e-4	49	1.641e-5	13	-2.655e-4	51
406		min	-0.054	19	-2.497	7	-0.012	23	-5.77e-3	7	-1.507e-5	19	-2.36e-3	5
407	F1_N183	max	0.059	13	-0.032	52	0.018	13	-4.581e-4	49	1.641e-5	13	8.517e-4	15
408		min	-0.056	19	-0.406	4	-0.016	23	-6.039e-3	7	-1.507e-5	19	7.796e-5	49
409	F1_N184	max	0.059	13	-0.205	52	0.014	13	-1.75e-3	49	1.641e-5	13	-4.554e-5	51
410		min	-0.056	19	-1.564	7	-0.012	23	-1.347e-2	7	-1.507e-5	19	-1.277e-3	5
411	F1_N185	max	0.058	13	-0.314	49	0.014	13	-9.946e-4	49	1.641e-5	13	-2.254e-4	51
412		min	-0.055	19	-2.385	7	-0.012	23	-7.345e-3	7	-1.507e-5	19	-2.163e-3	5
413	F1_N186	max	0.058	13	-0.462	49	0.008	13	3.515e-3	5	1.641e-5	13	-7.154e-4	51
414		min	-0.055	19	-3.118	7	-0.006	23	5.394e-4	51	-1.507e-5	19	-5.175e-3	5
415	F1_N187	max	0.059	13	-0.139	52	0.014	13	-1.995e-3	49	1.641e-5	13	7.645e-5	23
416		min	-0.056	19	-1.059	7	-0.012	23	-1.546e-2	7	-1.507e-5	19	-8.828e-4	5
417	F1_N188	max	0.059	13	-0.421	49	0.008	13	-1.163e-3	49	1.641e-5	13	-1.163e-3	51
418		min	-0.056	19	-2.812	7	-0.006	23	-8.191e-3	7	-1.507e-5	19	-7.74e-3	5
419	F1_N189	max	0.058	13	-0.361	49	0.005	14	2.631e-4	5	1.641e-5	13	2.84e-4	19
420		min	-0.055	19	-2.484	7	-0.005	24	3.544e-5	51	-1.507e-5	19	-2.999e-4	13
421	F1_N190	max	0.059	13	-0.263	49	0.005	14	-1.692e-3	49	1.641e-5	13	2.926e-4	19
422		min	-0.056	19	-1.806	7	-0.005	24	-1.167e-2	7	-1.507e-5	19	-3.093e-4	13
423	F1_N191	max	0.058	13	-0.175	49	0.006	15	6.053e-3	7	1.641e-5	13	2.841e-4	19
424		min	-0.055	19	-1.184	7	-0.005	21	8.934e-4	49	-1.507e-5	19	-3.001e-4	13
425	F1_N192	max	0.059	13	-0.175	49	0.006	15	-9.e-4	51	1.641e-5	13	2.927e-4	19
426		min	-0.056	19	-1.181	7	-0.005	21	-6.105e-3	5	-1.507e-5	19	-3.094e-4	13
427	F1_N197	max	0.046	13	-0.038	51	0.016	13	-4.104e-5	51	1.641e-5	13	3.1e-3	5
428		min	-0.043	19	-0.329	4	-0.014	23	-6.465e-4	5	-1.507e-5	19	2.207e-4	51
429	F1_N198	max	0.056	13	-0.488	49	0.006	14	1.431e-2	5	1.642e-5	13	-1.402e-3	51
430		min	-0.053	19	-3.34	7	-0.005	24	2.101e-3	51	-1.508e-5	19	-9.735e-3	5
431	N226	max	0	23	0	49	0	24	2.741e-5	14	0	13	1.359e-4	19
432		min	0	21	0	7	0	14	-2.465e-5	24	0	19	-1.386e-4	13
433	N227	max	0	23	0	51	0	20	2.741e-5	14	0	13	1.689e-4	19
434		min	0	13	0	5	0	14	-2.465e-5	24	0	19	-1.745e-4	13
435	N228	max	0	39	0	51	0	19	3.936e-5	13	0	13	1.359e-4	19
436		min	0	17	0	5	0	21	-3.361e-5	23	0	19	-1.386e-4	13
437	N229	max	0	23	0	51	0	24	3.936e-5	13	0	13	1.689e-4	19
438		min	0	17	0	5	0	13	-3.361e-5	23	0	19	-1.745e-4	13
439	N230	max	0	23	0	49	0	24	2.741e-5	14	0	13	2.019e-4	19
440		min	0	13	0	7	0	6	-2.464e-5	24	0	19	-2.104e-4	13

Envelope Node Displacements (Continued)

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
441	N231	max	0	23	0	49	0	23	3.936e-5	13	0	13	2.019e-4	19
442		min	0	13	0	7	0	13	-3.361e-5	23	0	19	-2.104e-4	13
443	N232	max	0	23	0	51	0	20	2.741e-5	14	0	13	2.348e-4	19
444		min	0	13	0	5	0	14	-2.465e-5	24	0	19	-2.463e-4	13
445	N233	max	0	19	0	51	0	24	3.936e-5	13	0	13	2.348e-4	19
446		min	0	13	0	5	0	21	-3.361e-5	23	0	19	-2.463e-4	13
447	N234	max	0	49	0	49	0	21	3.895e-5	13	0	13	2.766e-4	15
448		min	0	7	0	7	0	7	-3.548e-5	19	0	19	-2.718e-4	13
449	N235	max	0	23	0	51	0	51	2.758e-5	23	0	13	2.753e-4	19
450		min	0	13	0	5	0	5	-3.099e-5	13	0	19	-2.903e-4	13
451	N239	max	0	21	0	49	0	13	4.831e-5	13	0	13	3.014e-4	19
452		min	0	15	0	7	0	23	-4.182e-5	23	0	19	-3.188e-4	13
453	N241	max	0	49	0	51	0	49	-2.982e-4	49	0	6	1.211e-2	7
454		min	0	7	0	4	0	7	-2.754e-3	7	0	52	1.363e-3	49
455	N243	max	0	5	0	51	0	13	1.518e-4	21	0	49	3.351e-4	23
456		min	0	23	0	4	0	23	-3.782e-4	7	0	7	-2.846e-3	5
457	N245	max	0	5	0	51	0	51	7.234e-5	13	0	13	2.017e-4	19
458		min	0	51	0	5	0	5	-6.459e-5	23	0	19	-2.138e-4	13
459	N247	max	0	4	0	51	0	21	7.44e-5	21	0	13	-2.645e-4	51
460		min	0	51	0	5	0	4	-6.693e-5	15	0	19	-3.59e-3	5
461	N248	max	0	5	0	49	0	13	1.497e-4	13	0	13	5.489e-4	23
462		min	0	23	0	7	0	19	-8.986e-5	23	0	19	-2.25e-3	5
463	N253	max	-0.068	49	0.096	7	-0.013	49	1.973e-3	6	3.603e-4	7	-1.166e-3	49
464		min	-0.727	7	0.013	49	-0.163	7	2.718e-4	52	4.888e-5	49	-8.441e-3	7
465	N255	max	0.133	13	-0.003	51	0.02	21	2.18e-4	7	-8.53e-5	49	1.096e-3	13
466		min	-0.1	23	-0.053	5	-0.038	7	-5.458e-5	17	-6.26e-4	4	-2.546e-4	23
467	N256	max	0.112	5	-0.004	49	0.01	21	2.254e-4	5	-7.327e-6	49	2.288e-3	7
468		min	-0.008	23	-0.061	7	-0.019	7	-9.559e-5	23	-1.194e-4	7	7.485e-5	21
469	N258	max	0.132	13	-0.005	49	0.022	21	2.365e-4	7	-7.75e-5	49	1.038e-3	13
470		min	-0.1	23	-0.038	4	-0.033	15	-4.853e-5	21	-5.688e-4	4	-3.389e-4	23
471	N259	max	-0.068	49	-0.005	51	-0.014	49	2.184e-3	6	1.648e-4	6	-1.385e-3	49
472		min	-0.726	7	-0.04	4	-0.166	7	3.093e-4	52	2.547e-5	52	-9.639e-3	7
473	N260	max	0.143	5	-0.004	49	0.016	13	4.483e-5	14	1.231e-5	13	1.552e-3	5
474		min	-0.052	23	-0.025	7	-0.01	23	-3.156e-5	24	-1.131e-5	19	-1.796e-5	23
475	N261	max	0.112	5	-0.003	52	0.01	21	1.873e-4	5	-5.378e-6	49	1.994e-3	7
476		min	-0.008	23	-0.024	4	-0.017	7	-1.026e-4	23	-1.014e-4	7	-1.168e-5	21
477	N262	max	0.207	21	-0.004	49	0.065	13	7.379e-4	13	1.641e-5	13	4.311e-3	15
478		min	-0.332	15	-0.064	7	-0.047	23	-5.183e-4	23	-1.508e-5	19	-2.61e-3	21
479	N269	max	0.06	13	-0.003	49	0.018	13	4.366e-4	5	1.641e-5	13	2.464e-3	7
480		min	-0.056	19	-0.062	7	-0.016	23	-1.399e-4	23	-1.508e-5	19	-4.695e-4	21
481	N270	max	0.049	21	-0.015	49	0.05	13	6.087e-4	5	4.348e-5	21	4.449e-3	7
482		min	-0.351	7	-0.097	4	-0.037	23	-3.488e-4	23	-1.934e-4	7	-4.e-4	21
483	N274	max	0.031	17	0.003	5	0.001	21	1.956e-3	5	2.891e-4	13	1.752e-4	15
484		min	-0.03	15	-0.004	19	-0.049	7	2.135e-4	51	-2.245e-4	23	-9.367e-5	21
485	N276	max	0.206	21	0.003	5	0.106	5	1.406e-3	5	1.326e-3	21	2.853e-3	15
486		min	-0.214	19	-0.005	19	-0.042	23	-3.127e-4	23	-1.621e-3	15	-2.634e-3	21
487	N279	max	0.45	21	-0.001	49	0.346	24	2.151e-3	24	3.108e-3	23	3.106e-3	19
488		min	-0.658	15	-0.015	7	-1.669	6	-1.449e-2	6	-4.652e-3	13	-2.961e-3	13
489	N280	max	0	21	0	49	0	16	0	24	0	23	0	15
490		min	0	15	0	7	0	18	0	14	0	13	0	21
491	N281	max	0.652	21	-0.001	49	0.507	24	1.98e-3	24	3.575e-3	23	2.526e-3	19
492		min	-0.854	15	-0.019	7	-2.817	6	-1.602e-2	6	-5.712e-3	13	-2.54e-3	13
493	N282	max	0.665	21	0.026	21	0.491	24	1.425e-3	24	4.083e-3	23	2.933e-3	19
494		min	-0.862	19	-0.075	15	-2.851	6	-1.745e-2	6	-6.053e-3	13	-2.426e-3	13
495	N283	max	0.323	21	0.026	21	0.237	24	-5.733e-5	24	3.556e-3	23	2.958e-3	15
496		min	-0.515	15	-0.078	15	-1.017	6	-1.674e-2	6	-4.788e-3	13	-2.697e-3	21
497	N284	max	0.313	21	-0.001	49	0.248	24	1.83e-3	24	2.809e-3	23	3.319e-3	19
498		min	-0.507	15	-0.013	7	-1.002	6	-1.325e-2	6	-3.973e-3	13	-2.752e-3	21

Envelope Node Displacements (Continued)

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
499	N285	max	0.47	21	0.026	21	0.346	24	2.089e-3	24	3.846e-3	23	2.924e-3	19
500		min	-0.674	15	-0.077	15	-1.734	6	-1.509e-2	6	-5.452e-3	13	-2.983e-3	13
501	N287	max	0.06	13	-0.024	52	0.015	13	9.555e-5	6	1.641e-5	13	4.731e-4	1
502		min	-0.057	19	-0.091	4	-0.013	23	-4.989e-5	20	-1.508e-5	19	1.934e-4	49
503	N288	max	0	13	0	51	0	20	0	24	0	24	0	15
504		min	0	23	0	5	0	14	0	14	0	14	0	21
505	N286	max	0.527	21	0.001	23	0.7	24	3.138e-3	24	7.012e-4	23	1.993e-3	19
506		min	-0.834	15	-0.006	5	-2.086	6	-1.147e-2	6	-4.243e-3	5	-1.763e-3	21
507	N313	max	1.045	21	-0.074	52	0.212	13	1.488e-2	6	6.2e-3	21	5.919e-3	7
508		min	-1.215	15	-2.249	6	-0.201	19	2.497e-4	24	-6.705e-3	15	-2.057e-3	21
509	N314	max	0.815	13	-0.548	52	0.142	21	2.04e-2	4	5.434e-3	21	6.048e-3	7
510		min	-0.813	19	-3.174	4	-0.164	15	3.309e-3	52	-6.222e-3	15	5.81e-4	49
511	N315	max	1.387	21	-0.071	52	0.269	13	2.933e-4	22	2.042e-4	21	3.964e-3	15
512		min	-1.622	15	-3.007	6	-0.272	19	-2.42e-3	8	-1.002e-3	15	-2.242e-3	21
513	N316	max	1.088	21	-0.654	52	0.191	21	-8.842e-4	50	-1.539e-4	49	2.46e-3	15
514		min	-1.17	15	-4.064	4	-0.228	15	-5.04e-3	4	-9.268e-4	4	-1.187e-3	21
515	N317	max	1.116	21	0.006	24	0.217	21	-5.864e-4	52	4.131e-3	23	3.131e-3	19
516		min	-1.457	15	-1.995	6	-0.24	19	-1.638e-2	6	-5.421e-3	13	-2.518e-3	13
517	N318	max	0.799	21	-0.321	52	0.14	21	-4.146e-3	52	4.146e-3	23	1.608e-3	23
518		min	-0.98	15	-2.43	4	-0.194	15	-2.352e-2	4	-5.172e-3	13	-3.226e-3	13
519	N267	max	0.041	13	0.001	23	0.015	13	9.064e-4	5	1.642e-5	13	2.492e-4	19
520		min	-0.039	19	-0.002	13	-0.013	23	1.063e-5	23	-1.507e-5	19	-2.687e-4	13
521	N268	max	0.044	13	-0.005	51	0.015	13	5.568e-5	13	1.643e-5	13	1.005e-4	4
522		min	-0.042	19	-0.036	4	-0.013	23	-6.661e-5	19	-1.504e-5	19	7.888e-6	51
523	N271	max	0	3	0	23	0	51	-1.211e-4	50	0	13	2.147e-4	15
524		min	0	7	0	17	0	4	-1.04e-3	4	0	23	-2.263e-4	17
525	N291	max	0	4	0	49	0	5	8.486e-5	21	0	21	-2.984e-4	51
526		min	0	51	0	4	0	51	-2.045e-4	7	0	7	-3.858e-3	5
527	N272	max	0.22	5	-0.002	51	0.011	13	9.879e-5	5	1.231e-5	13	2.763e-3	4
528		min	0.002	23	-0.01	5	-0.008	23	-5.079e-5	23	-1.131e-5	19	3.922e-4	49
529	N275	max	0.039	13	0.001	23	0.012	21	9.227e-4	5	1.281e-4	13	2.673e-4	19
530		min	-0.038	15	-0.002	13	-0.014	15	7.129e-6	23	-9.101e-5	23	-2.854e-4	13
531	N277	max	0.04	13	0.003	13	0.017	13	9.326e-4	5	4.264e-4	13	6.046e-4	19
532		min	-0.038	15	-0.005	19	-0.017	15	-1.331e-4	23	-3.48e-4	23	-6.137e-4	13
533	N296	max	0.058	13	-0.004	51	0.015	13	1.12e-4	5	2.657e-5	21	4.415e-3	4
534		min	-0.036	23	-0.028	4	-0.013	23	-3.791e-5	23	-6.319e-5	7	6.57e-4	51
535	N297	max	0.058	13	-0.015	49	0.015	13	2.416e-4	5	4.348e-5	21	4.172e-3	4
536		min	-0.037	23	-0.097	4	-0.015	15	-1.001e-4	23	-1.934e-4	7	5.506e-4	49
537	N298	max	0.031	17	-0.166	51	-0.01	49	1.497e-3	5	-1.152e-4	51	1.37e-2	4
538		min	-0.03	15	-1.246	4	-0.143	7	1.454e-4	51	-9.779e-4	5	1.858e-3	51
539	N290	max	0.083	13	-0.239	51	-0.01	49	7.946e-3	4	1.126e-3	5	1.467e-2	4
540		min	-0.059	23	-1.72	4	-0.143	7	1.237e-3	51	-5.16e-4	23	2.033e-3	51
541	N304	max	0.134	13	-0.282	51	-0.01	49	2.722e-3	4	1.229e-3	5	1.564e-2	4
542		min	-0.073	23	-1.987	4	-0.143	7	4.766e-4	51	5.466e-5	51	2.207e-3	51
543	N305	max	0.175	5	-0.286	51	-0.01	49	-2.636e-4	52	1.577e-3	7	1.66e-2	4
544		min	-0.05	23	-1.989	4	-0.143	7	-2.388e-3	4	-2.287e-4	21	2.381e-3	51
545	N306	max	0.25	5	-0.285	51	-0.01	49	1.075e-3	4	1.421e-3	21	1.591e-2	4
546		min	-0.108	23	-1.932	4	-0.143	7	1.946e-4	51	-1.747e-3	15	2.313e-3	51
547	N307	max	0.284	13	-0.273	51	-0.01	49	-5.585e-4	49	6.168e-5	21	1.425e-2	4
548		min	-0.16	23	-1.849	4	-0.143	7	-4.281e-3	4	-5.187e-4	7	2.071e-3	51
549	N308	max	0.241	13	-0.214	51	-0.01	49	-1.416e-3	49	1.107e-3	23	1.259e-2	4
550		min	-0.135	23	-1.457	4	-0.143	7	-9.736e-3	4	-1.433e-3	13	1.828e-3	51
551	N309	max	0.302	21	-0.17	51	-0.01	49	2.389e-3	2	2.068e-3	21	1.093e-2	4
552		min	-0.367	15	-1.062	4	-0.144	7	4.976e-4	49	-4.308e-3	15	1.585e-3	51
553	N310	max	0.354	21	-0.169	51	-0.011	49	-5.678e-4	51	-4.456e-4	49	1.093e-2	4
554		min	-0.571	15	-1.005	4	-0.144	7	-3.884e-3	4	-2.921e-3	4	1.585e-3	51
555	N311	max	0.209	21	-0.086	51	-0.011	49	-1.767e-3	51	2.156e-3	23	1.093e-2	4
556		min	-0.654	7	-0.497	4	-0.144	7	-1.037e-2	4	-4.422e-3	13	1.585e-3	51

Envelope Node Displacements (Continued)

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
557	N312	max	0.241	13	-0.09	51	0.032	21	-1.216e-3	51	1.104e-3	23	4.604e-3	4
558		min	-0.136	23	-0.529	4	-0.043	15	-7.138e-3	4	-1.428e-3	13	5.81e-4	51
559	N319	max	0.284	13	-0.122	51	0.038	21	-1.865e-4	50	6.144e-5	21	5.882e-3	4
560		min	-0.161	23	-0.713	4	-0.047	15	-1.259e-3	4	-5.154e-4	7	8.255e-4	51
561	N320	max	0.251	5	-0.093	51	0.031	21	4.87e-3	4	1.419e-3	21	6.941e-3	4
562		min	-0.108	23	-0.543	4	-0.036	15	8.771e-4	51	-1.743e-3	15	1.037e-3	51
563	N321	max	0.175	5	-0.046	51	0.017	21	-4.97e-4	51	1.581e-3	7	3.545e-3	4
564		min	-0.051	23	-0.284	4	-0.029	15	-3.134e-3	4	-2.279e-4	21	5.15e-4	49
565	N322	max	0.134	13	-0.05	51	0.016	21	8.93e-4	4	1.209e-3	5	2.643e-3	4
566		min	-0.073	23	-0.315	4	-0.04	7	1.441e-4	51	6.3e-5	51	3.688e-4	49
567	N323	max	0.083	13	-0.027	52	0.009	21	3.729e-3	4	1.307e-3	13	1.635e-3	4
568		min	-0.059	23	-0.173	4	-0.047	7	5.692e-4	51	-6.228e-4	23	2.056e-4	49
569	N324	max	0.302	21	-0.169	51	0.051	21	7.818e-3	4	2.063e-3	21	4.421e-3	4
570		min	-0.367	15	-0.903	4	-0.09	15	1.511e-3	49	-4.295e-3	15	6.452e-4	51
571	N325	max	0.354	21	-0.228	51	0.061	21	-6.787e-5	51	-4.402e-4	51	6.827e-4	3
572		min	-0.571	15	-1.194	4	-0.127	7	-6.721e-4	4	-2.947e-3	5	-6.166e-4	7
573	N326	max	0.209	21	-0.161	51	0.035	21	-1.643e-3	51	1.988e-3	23	-7.997e-4	49
574		min	-0.654	7	-0.83	4	-0.152	7	-8.739e-3	4	-4.156e-3	13	-5.724e-3	7
575	N328	max	0	5	0	49	0	49	-9.991e-5	49	0	21	1.07e-5	23
576		min	0	51	0	7	0	4	-1.264e-3	7	0	7	-1.738e-3	5
577	N329	max	0.031	17	-0.003	49	0.007	21	1.497e-3	5	4.226e-5	21	3.307e-3	4
578		min	-0.03	15	-0.028	7	-0.056	7	1.454e-4	51	-3.602e-4	7	3.899e-4	51
579	N334	max	0.144	5	-0.003	51	0.017	21	3.706e-4	6	-3.989e-5	49	2.863e-3	4
580		min	-0.052	23	-0.023	4	-0.023	15	3.156e-5	52	-4.904e-4	7	2.969e-4	51
581	N335	max	0.031	17	0	23	-0.002	49	1.212e-3	5	2.22e-4	13	2.19e-4	19
582		min	-0.03	15	-0.001	17	-0.048	7	1.044e-4	51	-1.789e-4	23	-2.115e-4	13
583	N336	max	0.221	5	-0.004	49	0.012	21	2.617e-4	5	1.375e-5	21	3.423e-3	4
584		min	0.002	23	-0.024	4	-0.014	15	6.477e-6	23	-1.822e-4	7	5.064e-4	49
585	N292	max	0	64	0	64	0	64	0	64	0	64	0	64
586		min	0	1	0	1	0	1	0	1	0	1	0	1
587	N295	max	0.052	13	-0.395	49	0.014	13	-6.358e-4	49	1.646e-5	13	1.082e-2	7
588		min	-0.05	19	-2.736	7	-0.012	23	-3.743e-3	7	-1.501e-5	19	1.945e-3	49
589	N327	max	0.052	13	-0.395	49	0.014	13	-6.372e-4	49	1.652e-5	13	1.083e-2	7
590		min	-0.05	19	-2.735	7	-0.012	23	-3.754e-3	7	-1.513e-5	19	1.946e-3	49
591	N332	max	0.398	21	0	23	0.5	24	3.19e-3	24	4.599e-4	23	2.766e-3	19
592		min	-0.679	15	-0.006	5	-1.379	6	-1.084e-2	6	-3.187e-3	5	-2.134e-3	21
593	N333	max	0.503	21	0.026	21	0.37	24	1.955e-3	24	3.918e-3	23	2.515e-3	23
594		min	-0.705	15	-0.077	15	-1.916	6	-1.52e-2	6	-5.618e-3	13	-2.893e-3	13
595	N337	max	0.104	21	0	23	0.132	24	2.552e-3	24	1.718e-3	24	4.698e-3	15
596		min	-0.243	15	-0.004	5	-0.3	6	-6.513e-3	6	-2.526e-3	14	-1.978e-3	21
597	N338	max	0.142	22	-0.429	49	0.918	24	1.378e-3	24	4.945e-3	24	2.247e-2	4
598		min	-0.254	16	-3.622	7	-1.237	14	-9.758e-3	6	-5.753e-3	14	3.305e-3	49
599	N339	max	0.01	21	0	51	0.014	24	1.012e-3	24	7.571e-4	24	2.35e-3	15
600		min	-0.029	15	-0.001	5	-0.03	14	-2.324e-3	14	-9.88e-4	14	-6.157e-4	21
601	N340	max	0.068	22	-0.584	49	0.388	24	-1.613e-4	24	2.371e-3	24	2.157e-2	4
602		min	-0.079	16	-3.302	4	-0.447	14	-5.542e-3	6	-2.602e-3	14	4.099e-3	49
603	N342	max	0.069	21	-0.003	49	0.024	13	5.025e-4	5	1.641e-5	13	2.858e-3	15
604		min	-0.088	15	-0.063	7	-0.019	23	-2.61e-4	23	-1.508e-5	19	-1.163e-3	21
605	N343	max	0.062	13	-0.03	52	0.016	13	3.613e-4	6	1.641e-5	13	-5.131e-6	51
606		min	-0.059	19	-0.103	4	-0.015	23	3.323e-5	52	-1.508e-5	19	-6.209e-5	8
607	N344	max	0.058	13	-0.049	52	0.018	13	-1.111e-5	23	1.641e-5	13	1.395e-3	5
608		min	-0.055	19	-0.617	4	-0.016	23	-1.798e-4	13	-1.507e-5	19	4.758e-5	23
609	N345	max	0.054	13	-0.054	49	0.005	14	1.688e-2	7	1.656e-5	13	2.684e-4	19
610		min	-0.051	19	-0.355	7	-0.005	24	2.437e-3	49	-1.519e-5	19	-2.829e-4	13
611	N346	max	0.054	13	0	23	0.006	15	7.354e-4	7	1.657e-5	13	3.381e-4	23
612		min	-0.051	19	-0.042	5	-0.006	13	1.831e-5	21	-1.52e-5	19	-4.056e-4	13

Envelope Member Section Forces

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
1	F1_G19	1	max	0.159	21	12.717	7	0.013	15	0.005	21	0	32	0	32
2			min	-0.354	15	1.596	21	-0.011	21	-0.009	15	0	1	0	1
3		2	max	0.159	21	11.465	7	0.013	15	0.005	21	0.066	15	-7.247	21
4			min	-0.354	15	1.298	21	-0.011	21	-0.009	15	-0.054	21	-61.042	7
5		3	max	10.99	24	-0.253	23	0	14	0.005	21	0	21	-10.382	23
6			min	-10.99	14	-1.223	5	0	24	-0.008	15	0	15	-91.28	5
7		4	max	4.01	22	-0.539	23	0	14	0.005	21	0	14	-8.381	23
8			min	-4.01	16	-4.264	5	0	24	-0.008	15	0	24	-77.871	5
9		5	max	0.006	14	-1.989	23	0	16	0.005	21	0	32	0	32
10			min	-0.006	24	-19.287	5	0	22	-0.008	15	0	1	0	1
11	F1_G20	1	max	5.206	19	1.632	8	0	32	0.002	4	0	32	0	32
12			min	-5.206	13	0.973	23	0	1	0	23	0	1	0	1
13		2	max	5.206	19	0.866	8	0	32	0.002	4	0	7	-3.956	23
14			min	-5.206	13	0.524	23	0	1	0	23	0	21	-6.585	4
15		3	max	9.794	21	0.039	1	0	32	0.002	4	0	7	-5.406	23
16			min	-9.794	15	0.025	22	0	1	0	23	0	21	-8.955	4
17		4	max	9.794	21	-0.511	23	0	32	0.002	4	0	7	-4.152	32
18			min	-9.794	15	-0.849	4	0	1	0	23	0	21	-6.846	7
19		5	max	5.934	21	-1.084	24	0	15	0.002	4	0	32	0	32
20			min	-0.001	6	-1.78	7	-0.002	21	0	23	0	1	0	1
21	F1_G32	1	max	6.123	13	3.342	7	0	19	0	13	0	32	0	32
22			min	-5.235	19	0.739	21	0	13	0	19	0	1	0	1
23		2	max	6.123	13	-0.291	23	0	19	0	13	0	19	-1.837	21
24			min	-5.235	19	-1.322	5	0	13	0	19	0	13	-8.289	7
25		3	max	6.123	13	-1.322	23	0	19	0	13	0	19	21.699	5
26			min	-5.235	19	-5.985	5	0	13	0	19	0	13	4.782	23
27		4	max	5.238	19	1.326	5	0	19	0	13	0	13	-1.831	21
28			min	-6.126	13	0.292	23	0	13	0	19	0	19	-8.259	7
29		5	max	5.238	19	-0.738	21	0	19	0	13	0	32	0	32
30			min	-6.126	13	-3.338	7	0	13	0	19	0	1	0	1
31	F1_G158	1	max	15.701	21	2.435	7	0	13	0	13	0	32	0	32
32			min	-16.124	15	0.564	21	0	19	0	19	0	1	0	1
33		2	max	15.701	21	-0.338	23	0	13	0	13	0	13	-0.706	21
34			min	-16.124	15	-1.425	5	0	19	0	19	0	19	-3.157	7
35		3	max	15.701	21	2.788	2	0	13	0	13	0.001	13	17.815	5
36			min	-16.124	15	-5.286	5	0	19	0	19	-0.001	19	4.225	23
37		4	max	16.124	15	1.425	5	0	13	0	13	0	19	-0.706	21
38			min	-15.701	21	0.338	23	0	19	0	19	0	13	-3.157	7
39		5	max	16.124	15	-0.564	21	0	13	0	13	0	32	0	32
40			min	-15.701	21	-2.435	7	0	19	0	19	0	1	0	1
41	(B-6)_L1	1	max	99.371	5	0	19	0	23	0.005	19	0.001	13	0	32
42			min	24.872	23	0	13	0	13	-0.005	13	-0.001	19	0	1
43		2	max	99.238	5	0	19	0	23	0.005	19	0	13	0	13
44			min	24.772	23	0	13	0	13	-0.005	13	0	19	0	19
45		3	max	99.105	5	0	19	0	23	0.005	19	0	13	0	13
46			min	24.672	23	0	13	0	13	-0.005	13	0	19	0	19
47		4	max	98.972	5	0	19	0	23	0.005	19	0	13	0	13
48			min	24.572	23	0	13	0	13	-0.005	13	0	19	0	19
49		5	max	98.839	5	0	19	0	23	0.005	19	0	21	0	13
50			min	24.472	23	0	13	0	13	-0.005	13	0	19	0	19
51	(D-7)_L1	1	max	21.888	7	0	13	0	13	0.005	19	0	19	0	32
52			min	5.238	21	0	19	0	19	-0.005	13	0	13	0	1
53		2	max	21.754	7	0	13	0	13	0.005	19	0	19	0	19
54			min	5.138	21	0	19	0	19	-0.005	13	0	13	0	13
55		3	max	21.621	7	0	13	0	13	0.005	19	0	19	0	19
56			min	5.038	21	0	19	0	19	-0.005	13	0	13	0	13
57		4	max	21.488	7	0	13	0	13	0.005	19	0	13	0	19
58			min	4.938	21	0	19	0	19	-0.005	13	0	19	0	13

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
59		5	max	21.355	7	0	13	0	13	0.005	19	0	13	0	19
60			min	4.838	21	0	19	0	19	-0.005	13	0	19	0	13
61	(B-7)_L1	1	max	78.513	7	0	13	0	13	0.005	19	0	13	0	32
62			min	18.123	21	0	19	0	19	-0.005	13	0	19	0	1
63		2	max	78.38	7	0	13	0	13	0.005	19	0	13	0	19
64			min	18.023	21	0	19	0	19	-0.005	13	0	19	0	13
65		3	max	78.247	7	0	13	0	13	0.005	19	0	13	0	19
66			min	17.923	21	0	19	0	19	-0.005	13	0	19	0	13
67		4	max	78.114	7	0	13	0	13	0.005	19	0	13	0	19
68			min	17.823	21	0	19	0	19	-0.005	13	0	19	0	13
69		5	max	77.981	7	0	13	0	13	0.005	19	0	13	0	19
70			min	17.723	21	0	19	0	19	-0.005	13	0	19	0	13
71	C16_L1	1	max	51.506	7	0	21	0.001	7	0.002	13	0	32	0.001	7
72			min	11.149	24	-0.001	8	0	13	0	1	-0.008	7	0	1
73		2	max	51.373	7	0	21	0.001	7	0.002	13	0	4	0.006	7
74			min	11.049	24	-0.001	8	0	13	0	1	-0.005	7	0.001	21
75		3	max	51.24	7	0	21	0.001	7	0.002	13	0.001	4	0.011	7
76			min	10.95	24	-0.001	8	0	13	0	1	-0.003	7	0.002	21
77		4	max	51.107	7	0	21	0.001	7	0.002	13	0.001	4	0.016	7
78			min	10.85	24	-0.001	8	0	13	0	1	-0.001	13	0.003	21
79		5	max	50.974	7	0	21	0.001	7	0.002	13	0.002	4	0.021	7
80			min	10.75	24	-0.001	8	0	13	0	1	-0.002	13	0.003	21
81	C17_L1	1	max	50.609	4	-0.33	21	-0.059	21	0.192	7	0.003	13	0	32
82			min	10.475	24	-2.135	7	-0.294	4	0.013	21	0	1	0	13
83		2	max	50.377	4	-0.33	21	-0.059	21	0.192	7	-0.233	21	8.541	7
84			min	10.301	24	-2.135	7	-0.294	4	0.013	21	-1.177	4	1.321	21
85		3	max	50.145	4	-0.33	21	-0.059	21	0.192	7	-0.468	21	17.082	7
86			min	10.127	24	-2.135	7	-0.294	4	0.013	21	-2.355	4	2.643	21
87		4	max	49.913	4	1.79	13	0.336	15	-0.11	23	-0.702	21	25.623	7
88			min	9.954	24	-2.135	7	-0.294	4	-0.556	4	-3.532	4	3.964	21
89		5	max	29.949	5	1.79	13	0.612	4	-0.11	23	-0.018	21	6.192	15
90			min	3.492	23	-1.593	23	0.119	21	-0.556	4	-0.112	4	-4.695	21
91	C18_L1	1	max	81.892	4	0.933	23	-0.04	21	1.076	4	0	32	0	32
92			min	16.615	21	-1.692	13	-0.213	4	0.219	21	0	21	-0.019	21
93		2	max	81.661	4	0.933	23	-0.04	21	1.076	4	-0.159	21	6.768	13
94			min	16.441	21	-1.692	13	-0.213	4	0.219	21	-0.851	4	-3.732	23
95		3	max	81.429	4	0.933	23	-0.04	21	1.076	4	-0.319	21	13.537	13
96			min	16.267	21	-1.692	13	-0.213	4	0.219	21	-1.701	4	-7.463	23
97		4	max	81.197	4	3.559	21	0.648	4	1.076	4	-0.492	21	20.305	13
98			min	16.093	21	-4.32	15	0.123	21	0.219	21	-2.595	4	-17.353	15
99		5	max	67.837	7	3.559	21	0.648	4	0	32	0	23	-0.024	23
100			min	11.517	21	-4.32	15	0.123	21	0	1	-0.001	5	-0.178	5
101	(N-6)_L1	1	max	5.497	7	0	21	0	13	0.005	19	0.001	19	0	32
102			min	1.532	21	0	7	0	19	-0.005	13	-0.001	13	0	1
103		2	max	5.364	7	0	21	0	13	0.005	19	0	19	0.001	7
104			min	1.432	21	0	7	0	19	-0.005	13	0	13	0	21
105		3	max	5.231	7	0	21	0	13	0.005	19	0	19	0.002	7
106			min	1.332	21	0	7	0	19	-0.005	13	0	13	0	21
107		4	max	5.098	7	0	21	0	13	0.005	19	0	19	0.004	7
108			min	1.232	21	0	7	0	19	-0.005	13	0	13	0.001	21
109		5	max	4.965	7	0	21	0	13	0.005	19	0	15	0.005	7
110			min	1.133	21	0	7	0	19	-0.005	13	0	21	0.001	21
111	M12	1	max	0	32	0.156	15	0	32	0.01	7	0	32	0	32
112			min	-10.308	23	0	1	0	1	0	1	0	1	0	1
113		2	max	0	32	0.078	15	0	32	0.01	7	0	32	0	32
114			min	-10.263	23	0	1	0	1	0	1	0	1	-0.768	15
115		3	max	0	32	0	32	0	32	0.01	7	0	32	0	32
116			min	-10.218	23	0	1	0	1	0	1	0	1	-1.024	15

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
117		4	max	0	32	0	32	0	32	0.01	7	0	32	0	32
118			min	-10.174	23	-0.078	11	0	1	0	1	0	1	-0.768	15
119		5	max	0	32	0	32	0	32	0.01	7	0	32	0	32
120			min	-10.129	23	-0.156	11	0	1	0	1	0	1	0	1
121	M13	1	max	0	32	0.156	9	0	32	0	32	0	32	0	32
122			min	-9.053	21	0	1	0	1	-0.004	13	0	1	0	1
123		2	max	0	32	0.078	9	0	32	0	32	0	32	0	32
124			min	-9.008	21	0	1	0	1	-0.004	13	0	1	-0.768	9
125		3	max	0	32	0	32	0	32	0	32	0	32	0	32
126			min	-8.963	21	0	1	0	1	-0.004	13	0	1	-1.024	9
127		4	max	0	32	0	32	0	32	0	32	0	32	0	32
128			min	-8.919	21	-0.078	17	0	1	-0.004	13	0	1	-0.768	9
129		5	max	0	32	0	32	0	32	0	32	0	32	0	32
130			min	-8.874	21	-0.156	17	0	1	-0.004	13	0	1	0	1
131	M14	1	max	0	32	0	32	0	32	0	32	0	32	0	32
132			min	0	1	0	1	0	1	0	1	0	1	0	1
133		2	max	0	32	0	32	0	32	0	32	0	32	0	32
134			min	0	1	0	1	0	1	0	1	0	1	0	1
135		3	max	0	32	0	32	0	32	0	32	0	32	0	32
136			min	0	1	0	1	0	1	0	1	0	1	0	1
137		4	max	0	32	0	32	0	32	0	32	0	32	0	32
138			min	0	1	0	1	0	1	0	1	0	1	0	1
139		5	max	0	32	0	32	0	32	0	32	0	32	0	32
140			min	0	1	0	1	0	1	0	1	0	1	0	1
141	M15	1	max	0	32	0.104	21	0	32	0	32	0	32	0	32
142			min	-0.201	22	0	1	0	1	-0.024	21	0	1	0	1
143		2	max	0	32	0.052	21	0	32	0	32	0	32	0	32
144			min	-0.242	22	0	1	0	1	-0.024	21	0	1	-0.502	21
145		3	max	0	32	0	32	0	32	0	32	0	32	0	32
146			min	-0.284	22	0	1	0	1	-0.024	21	0	1	-0.669	21
147		4	max	0	32	0	32	0	32	0	32	0	32	0	32
148			min	-0.325	22	-0.052	22	0	1	-0.024	21	0	1	-0.502	21
149		5	max	0	32	0	32	0	32	0	32	0	32	0	32
150			min	-0.367	22	-0.104	22	0	1	-0.024	21	0	1	0	1
151	M16	1	max	29.879	15	0.319	1	0	32	0	13	0	32	0	32
152			min	-22.949	21	0.205	23	0	1	0	19	0	1	0	1
153		2	max	29.746	15	0.159	1	0	32	0	13	0	32	-0.881	23
154			min	-23.049	21	0.102	23	0	1	0	19	0	1	-1.371	1
155		3	max	29.613	15	0	32	0	32	0	13	0	32	-1.175	23
156			min	-23.149	21	0	1	0	1	0	19	0	1	-1.828	1
157		4	max	29.48	15	-0.102	32	0	32	0	13	0	32	-0.881	23
158			min	-23.249	21	-0.159	1	0	1	0	19	0	1	-1.371	1
159		5	max	29.346	15	-0.205	32	0	32	0	13	0	32	0	32
160			min	-23.349	21	-0.319	1	0	1	0	19	0	1	0	1
161	M17	1	max	30.702	13	0.319	1	0	32	0	13	0	32	0	32
162			min	-22.606	23	0.205	29	0	1	0	19	0	1	0	1
163		2	max	30.835	13	0.159	1	0	32	0	13	0	32	-0.88	32
164			min	-22.506	23	0.102	29	0	1	0	19	0	1	-1.369	1
165		3	max	30.968	13	0	32	0	32	0	13	0	32	-1.174	32
166			min	-22.406	23	0	1	0	1	0	19	0	1	-1.826	1
167		4	max	31.102	13	-0.102	23	0	32	0	13	0	32	-0.88	32
168			min	-22.306	23	-0.159	1	0	1	0	19	0	1	-1.369	1
169		5	max	31.235	13	-0.205	23	0	32	0	13	0	32	0	32
170			min	-22.206	23	-0.319	1	0	1	0	19	0	1	0	1
171	M18	1	max	32.005	13	0.243	1	0	32	0.001	19	0	32	0	32
172			min	-24.557	23	0.156	23	0	1	-0.001	13	0	1	0	1
173		2	max	31.872	13	0.121	1	0	32	0.001	19	0	32	-0.594	23
174			min	-24.657	23	0.078	23	0	1	-0.001	13	0	1	-0.924	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
175		3	max	31.738	13	0	32	0	32	0.001	19	0	32	-0.792	23
176			min	-24.757	23	0	1	0	1	-0.001	13	0	1	-1.232	1
177		4	max	31.605	13	-0.078	21	0	32	0.001	19	0	32	-0.594	23
178			min	-24.857	23	-0.121	1	0	1	-0.001	13	0	1	-0.924	1
179		5	max	31.472	13	-0.156	21	0	32	0.001	19	0	32	0	32
180			min	-24.957	23	-0.243	1	0	1	-0.001	13	0	1	0	1
181	M19	1	max	30.302	15	0.243	1	0	32	0.001	19	0	32	0	32
182			min	-25.592	21	0.156	23	0	1	-0.001	13	0	1	0	1
183		2	max	30.435	15	0.121	1	0	32	0.001	19	0	32	-0.594	23
184			min	-25.492	21	0.078	23	0	1	-0.001	13	0	1	-0.924	1
185		3	max	30.568	15	0	32	0	32	0.001	19	0	32	-0.792	23
186			min	-25.392	21	0	1	0	1	-0.001	13	0	1	-1.232	1
187		4	max	30.701	15	-0.078	21	0	32	0.001	19	0	32	-0.594	23
188			min	-25.293	21	-0.121	1	0	1	-0.001	13	0	1	-0.924	1
189		5	max	30.834	15	-0.156	21	0	32	0.001	19	0	32	0	32
190			min	-25.193	21	-0.243	1	0	1	-0.001	13	0	1	0	1
191	F1_G1	1	max	0.004	15	24.918	5	0	15	0	13	0	32	0	32
192			min	-0.003	21	8.742	23	0	21	0	19	0	1	0	1
193		2	max	0	22	5.545	5	0	21	0	13	0	15	-68.174	23
194			min	0	8	2	23	0	15	0	19	0	21	-195.571	5
195		3	max	0	24	-4.743	21	0	22	0	13	0	15	-69.908	23
196			min	0	14	-13.829	7	0	16	0	19	0	21	-200.232	5
197		4	max	0.002	16	-11.486	21	0	21	0	13	0	15	-5.202	23
198			min	-0.002	22	-33.202	7	0	15	0	19	0	21	-13.982	5
199		5	max	0.002	21	29.283	7	0	15	0	13	0	15	0.001	7
200			min	-0.003	15	10.054	21	0	21	0	19	0	21	0	21
201	F1_G3	1	max	0.002	15	-10.053	23	0	21	0	13	0	15	0.001	7
202			min	-0.001	21	-29.283	5	0	15	0	19	0	21	0	21
203		2	max	0	14	19.663	5	0	16	0	13	0	24	-8.537	21
204			min	0	24	6.808	23	0	1	0	19	0	14	-24.613	7
205		3	max	0	13	0	21	0	15	0	13	0	15	-50.83	24
206			min	0	23	0	7	0	21	0	19	0	21	-147.163	4
207		4	max	0	24	-6.808	21	0	14	0	13	0	14	-8.537	23
208			min	0	14	-19.663	7	0	24	0	19	0	24	-24.613	5
209		5	max	0.001	24	29.283	7	0	15	0	13	0	15	0.001	7
210			min	-0.001	14	10.053	21	0	21	0	19	0	21	0	21
211	F1_G5	1	max	0.003	15	-10.054	23	0	13	0	13	0	23	0.001	5
212			min	-0.001	21	-29.283	5	0	23	0	19	0	13	0	23
213		2	max	0.001	22	33.202	5	0	23	0	13	0	23	-5.202	21
214			min	-0.002	16	11.486	23	0	13	0	19	0	13	-13.982	7
215		3	max	0.001	15	13.829	5	0	13	0	13	0	13	-69.908	21
216			min	0	21	4.743	23	0	23	0	19	0	23	-200.232	7
217		4	max	0	23	-2	21	0	13	0	13	0	13	-68.174	21
218			min	0	13	-5.545	7	0	23	0	19	0	23	-195.571	7
219		5	max	0.004	24	-8.742	21	0	13	0	13	0	32	0	32
220			min	-0.004	14	-24.918	7	0	19	0	19	0	1	0	1
221	F1_G6	1	max	0.002	14	24.918	7	0	15	0	13	0	32	0	32
222			min	-0.002	24	8.742	21	0	21	0	23	0	1	0	1
223		2	max	0	32	5.545	7	0	32	0	13	0	7	-68.174	21
224			min	0	1	2	21	0	1	0	23	0	21	-195.571	7
225		3	max	0	32	-4.743	23	0	32	0	13	0	15	-69.908	21
226			min	0	1	-13.829	5	0	1	0	23	0	21	-200.232	7
227		4	max	0.002	24	-11.486	23	0	21	0	13	0	15	-5.202	21
228			min	-0.003	14	-33.202	5	0	15	0	23	0	21	-13.982	7
229		5	max	0.001	7	29.283	5	0	15	0	13	0	15	0.001	5
230			min	-0.001	21	10.054	23	0	21	0	23	0	21	0	23
231	F1_G8	1	max	0	21	-10.053	21	0	21	0	13	0	15	0.001	5
232			min	-0.001	7	-29.283	7	0	15	0	23	0	21	0	23

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
233		2	max	0	32	19.662	5	0	32	0	13	0	21	-8.537	23
234			min	0	1	6.808	23	0	1	0	23	0	15	-24.612	5
235		3	max	0	32	0	21	0	32	0	13	0	23	-50.83	23
236			min	0	1	0	7	0	1	0	23	0	13	-147.161	5
237		4	max	0	15	-6.808	21	0	13	0	13	0	13	-8.536	23
238			min	0	1	-19.663	7	0	19	0	23	0	23	-24.61	5
239		5	max	0.002	15	29.283	5	0	15	0	13	0	15	0.002	5
240			min	-0.001	21	10.053	23	0	21	0	23	0	21	0.001	23
241	F1_G10	1	max	0	15	-10.054	21	0	13	0	13	0	23	0.003	5
242			min	0	13	-29.283	7	0	23	0	23	0	13	0.001	23
243		2	max	0.002	14	33.202	5	0	23	0	13	0	23	-5.2	23
244			min	-0.002	24	11.486	23	0	13	0	23	0	13	-13.976	5
245		3	max	0	32	13.828	5	0	14	0	13	0	21	-69.908	21
246			min	0	1	4.743	23	0	1	0	23	0	15	-200.232	7
247		4	max	0	32	-2	21	0	32	0	13	0	13	-68.174	21
248			min	0	1	-5.545	7	0	1	0	23	0	23	-195.572	7
249		5	max	0.002	24	-8.743	21	0	13	0	13	0	32	0	32
250			min	-0.002	14	-24.919	7	0	19	0	23	0	1	0	1
251	F1_G11	1	max	0	21	1.069	7	0	23	0	21	0	32	0	32
252			min	0	7	0.381	21	0	13	0	15	0	1	0	1
253		2	max	0	21	0.969	7	0	23	0	21	0	23	-0.449	21
254			min	0	7	0.337	21	0	13	0	15	0	13	-1.274	7
255		3	max	0	21	0.87	7	0	23	0	21	0	23	-0.842	21
256			min	0	7	0.292	21	0	13	0	15	0	13	-2.423	7
257		4	max	0	21	0.77	7	0	23	0	21	0	23	-1.179	21
258			min	0	7	0.247	21	0	13	0	15	0	13	-3.448	7
259		5	max	0	7	-1.378	23	0	23	0	21	0	32	0	32
260			min	0	21	-4.031	5	0	13	0	15	0	1	0	1
261	F1_G12	1	max	0.004	15	7.965	4	0	15	-0.002	23	0	32	0	32
262			min	-0.003	21	2.516	21	0	21	-0.012	4	0	1	0	1
263		2	max	0.004	15	7.796	4	0	15	-0.002	23	0	15	-9.858	21
264			min	-0.003	21	2.389	21	0	21	-0.012	4	0	21	-31.679	4
265		3	max	0	22	2.883	4	0	13	-0.002	23	0.002	13	-12.916	21
266			min	0	16	0.674	21	0	19	-0.012	4	-0.002	19	-43.89	4
267		4	max	0	16	-1.417	23	0	32	-0.002	23	0	21	-9.127	23
268			min	0	22	-4.893	5	0	1	-0.012	4	0	15	-29.496	5
269		5	max	0.005	21	-3.132	23	0	21	-0.002	23	0	32	0	32
270			min	-0.007	15	-9.806	5	0	15	-0.012	4	0	1	0	1
271	F1_G13	1	max	0.005	15	10.595	5	0	15	0.006	7	0	32	0	32
272			min	-0.003	21	3.237	23	0	21	-0.001	21	0	1	0	1
273		2	max	0	16	5.661	5	0	32	0.006	7	0	15	-11.862	23
274			min	0	22	1.506	23	0	1	-0.001	21	0	13	-40.131	5
275		3	max	0	16	-0.835	21	0	19	0.006	7	0.002	13	-16.732	23
276			min	0	22	-3.89	7	0	13	-0.001	21	-0.001	19	-60.433	5
277		4	max	0.002	21	-2.565	21	0	13	0.006	7	0	23	-11.862	21
278			min	-0.003	15	-8.823	7	0	23	-0.001	21	0	13	-40.131	7
279		5	max	0.002	21	-2.707	21	0	13	0.006	7	0	32	0	32
280			min	-0.003	15	-9.013	7	0	23	-0.001	21	0	1	0	1
281	F1_G14	1	max	0	7	1.897	8	0	32	0.003	5	0	32	0	32
282			min	0	21	0.163	23	0	1	0	23	0	1	0	1
283		2	max	0	7	0.954	8	0	32	0.003	5	0	32	-0.109	23
284			min	0	21	0.086	23	0	1	0	23	0	1	-1.248	4
285		3	max	0	7	0.001	1	0	32	0.003	5	0	32	-0.147	23
286			min	0	21	0.001	23	0	1	0	23	0	1	-1.666	4
287		4	max	0	7	-0.084	21	0	32	0.003	5	0	32	-0.111	23
288			min	0	21	-0.952	7	0	1	0	23	0	1	-1.25	4
289		5	max	0	7	-0.169	21	0	32	0.003	5	0	32	0	32
290			min	0	21	-1.905	7	0	1	0	23	0	1	0	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
291	F1_G17	1	max	0.001	15	10.962	5	0	21	0.018	5	0	32	0	32
292			min	-0.001	21	1.297	23	0	15	0.004	23	0	1	0	1
293		2	max	0.001	15	9.59	5	0	21	0.018	5	0	21	-6.85	23
294			min	-0.001	21	1.023	23	0	15	0.004	23	0	15	-61.379	5
295		3	max	0	16	0.967	5	0	22	0.016	5	0	16	-9.27	21
296			min	0	22	0.028	23	0	16	0.003	23	0	22	-87.102	7
297		4	max	0.001	21	-1.058	21	0	24	0.014	5	0	14	-7.054	21
298			min	-0.001	15	-9.501	7	0	14	0.003	23	0	24	-69.275	7
299		5	max	0.001	21	-1.315	21	0	24	0.014	5	0	32	0	32
300			min	-0.001	15	-14.051	7	0	14	0.003	23	0	1	0	1
301	F1_G18	1	max	0.006	16	38.632	7	0	14	-0.033	23	0	32	0	32
302			min	-0.003	22	7.323	21	0	24	-0.183	5	0	1	0	1
303		2	max	0.006	16	37.193	7	0	14	-0.033	23	0	14	-35.429	21
304			min	-0.003	22	6.88	21	0	24	-0.183	5	0	24	-189.574	7
305		3	max	0.005	22	26.863	7	0	16	-0.032	23	0	16	-65.384	21
306			min	-0.006	16	5.695	21	0	22	-0.181	5	0	22	-334.503	7
307		4	max	0.757	15	-8.133	21	0.028	21	-0.032	23	0.17	15	-41.7	21
308			min	-0.339	21	-40.989	7	-0.034	15	-0.18	5	-0.14	21	-214.524	7
309		5	max	0.757	15	-8.572	21	0.028	21	-0.032	23	0	32	0	32
310			min	-0.339	21	-45.118	7	-0.034	15	-0.18	5	0	1	0	1
311	F1_G21	1	max	0	21	43.499	7	0	15	0.01	7	0	32	0	32
312			min	0	15	9.628	21	0	21	-0.001	21	0	1	0	1
313		2	max	0	21	30.967	7	0	15	0.01	7	0	15	-98.872	21
314			min	0	15	6.718	21	0	21	-0.001	21	0	21	-450.411	7
315		3	max	0	21	17.532	7	0	15	0.01	7	0	15	-162.469	21
316			min	0	15	3.131	21	0	21	-0.001	21	0	21	-749.133	7
317		4	max	0	15	-10.425	21	0	13	0.01	7	0	23	-144.041	21
318			min	0	21	-50.114	7	0	23	-0.001	21	0	13	-691.87	7
319		5	max	0	15	-13.369	21	0	13	0.01	7	0	32	0	32
320			min	0	21	-64.596	7	0	23	-0.001	21	0	1	0	1
321	F1_G22	1	max	0.004	15	22.062	7	0	23	-0.003	21	0	32	0	32
322			min	-0.003	21	5.489	21	0	13	-0.02	7	0	1	0	1
323		2	max	0.001	22	10.702	7	0.001	19	-0.003	21	0	13	-39.271	21
324			min	-0.001	16	2.819	21	-0.001	13	-0.02	7	0	19	-165.203	7
325		3	max	0	22	-1.082	23	0	19	-0.003	21	0	13	-45.277	21
326			min	0	16	-6.315	5	0	13	-0.02	7	0	19	-198.087	7
327		4	max	-0.004	21	-5.385	23	0	7	0.108	7	0.028	15	-17.504	21
328			min	-0.047	7	-23.743	5	0	21	0.027	21	-0.017	21	-91.784	7
329		5	max	0.003	21	-3.155	21	0	13	0.108	7	0	32	0	32
330			min	-0.004	15	-15.803	7	0	19	0.027	21	0	1	0	1
331	F1_G23	1	max	0	32	37.832	5	0	21	-0.003	21	0	32	0	32
332			min	0	7	7.246	23	0	15	-0.022	7	0	1	0	1
333		2	max	0	32	37.174	5	0	21	-0.003	21	0	21	-56.12	23
334			min	0	7	6.753	23	0	15	-0.022	7	0	15	-300.678	5
335		3	max	0.004	15	10.467	5	0	22	-0.003	21	0	22	-74.6	21
336			min	-0.003	21	1.685	23	0	16	-0.022	7	0	16	-404.248	7
337		4	max	0	32	-3.492	21	0	32	-0.003	21	0	16	-55.419	21
338			min	0	1	-17.408	7	0	1	-0.022	7	0	22	-302.765	7
339		5	max	0.009	21	-8.366	21	0	16	-0.003	21	0	32	0	32
340			min	0	7	-43.986	7	-0.037	21	-0.022	7	0	1	0	1
341	F1_G24	1	max	3.574	21	9.825	8	0	32	0	23	0	32	0	32
342			min	-4.339	15	1.216	21	0	1	-0.001	5	0	1	0	1
343		2	max	3.574	21	4.949	8	0	32	0	23	0	32	-4.041	32
344			min	-4.339	15	0.635	21	0	1	-0.001	5	0	1	-31.674	4
345		3	max	3.574	21	0.002	1	0	32	0	23	0	32	-5.401	32
346			min	-4.339	15	0.002	21	0	1	-0.001	5	0	1	-42.25	4
347		4	max	3.574	21	-0.632	32	0	32	0	23	0	32	-4.054	32
348			min	-4.339	15	-4.944	4	0	1	-0.001	5	0	1	-31.692	4

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
349		5	max	3.574	21	-1.266	32	0	32	0	23	0	32	0	32
350			min	-4.339	15	-9.891	4	0	1	-0.001	5	0	1	0	1
351	F1_G25	1	max	0	21	7.598	8	0	32	0.006	7	0	32	0	32
352			min	0	15	0.796	21	0	1	0.001	21	0	1	0	1
353		2	max	0	21	3.828	8	0	32	0.006	7	0	32	-2.122	32
354			min	0	15	0.42	21	0	1	0.001	21	0	1	-19.525	4
355		3	max	0	21	0.002	1	0	32	0.006	7	0	32	-2.839	32
356			min	0	15	0.001	21	0	1	0.001	21	0	1	-26.046	4
357		4	max	0	21	-0.417	32	0	32	0.006	7	0	32	-2.132	32
358			min	0	15	-3.825	4	0	1	0.001	21	0	1	-19.538	4
359		5	max	0	21	-0.835	32	0	32	0.006	7	0	32	0	32
360			min	0	15	-7.651	4	0	1	0.001	21	0	1	0	1
361	F1_G26	1	max	0	32	5.45	8	0	32	0.001	7	0	32	0	32
362			min	0	1	0.664	21	0	1	0	21	0	1	0	1
363		2	max	0	32	2.765	8	0	32	0.001	7	0	32	-1.257	32
364			min	0	1	0.362	21	0	1	0	21	0	1	-9.816	4
365		3	max	0	32	0.005	1	0	32	0.001	7	0	32	-1.69	32
366			min	0	1	0.003	21	0	1	0	21	0	1	-13.107	4
367		4	max	0	32	-0.356	32	0	32	0.001	7	0	32	-1.271	32
368			min	0	1	-2.756	4	0	1	0	21	0	1	-9.835	4
369		5	max	0	32	-0.714	32	0	32	0.001	7	0	32	0	32
370			min	0	1	-5.517	4	0	1	0	21	0	1	0	1
371	F1_G29	1	max	0	5	5.012	8	0	32	0	21	0	32	0	32
372			min	-1.145	21	1.153	21	0	1	0	15	0	1	0	1
373		2	max	0	5	2.778	8	0	32	0	21	0	32	-5.459	32
374			min	-1.145	21	0.619	21	0	1	0	15	0	1	-24.054	4
375		3	max	0	5	0.217	8	0	32	0	21	0	32	-7.489	32
376			min	-1.145	21	0.034	21	0	1	0	15	0	1	-33.404	4
377		4	max	0	5	-0.602	32	0	32	0	21	0	32	-5.774	32
378			min	-1.145	21	-2.669	4	0	1	0	15	0	1	-26.052	4
379		5	max	0	5	-1.289	32	0	32	0	21	0	32	0	32
380			min	-1.145	21	-5.881	4	0	1	0	15	0	1	0	1
381	F1_G31	1	max	0	16	52.858	7	0	15	0	13	0	32	0	32
382			min	0	22	12.204	21	0	21	0	19	0	1	0	1
383		2	max	0	22	-0.652	23	0	21	0	13	0	15	-98.929	23
384			min	0	16	-3.987	5	0	15	0	19	0	21	-428.956	5
385		3	max	0	22	-2.311	23	0	21	0	13	0	15	-83.373	23
386			min	0	16	-10.408	5	0	15	0	19	0	21	-353.383	5
387		4	max	0	22	-3.97	23	0	21	0	13	0	15	-50.397	23
388			min	0	16	-16.828	5	0	15	0	19	0	21	-210.398	5
389		5	max	0	22	-5.629	23	0	21	0	13	0	32	0	32
390			min	0	16	-23.249	5	0	15	0	19	0	1	0	1
391	F1_G33	1	max	0.022	24	18.017	5	0	16	0	13	0	32	0	32
392			min	-0.022	14	4.1	23	0	22	0	19	0	1	0	1
393		2	max	0.022	24	17.315	5	0	16	0	13	0	16	-27.108	23
394			min	-0.022	14	3.74	23	0	22	0	19	0	22	-122.161	5
395		3	max	0	32	0	21	0	32	0	13	0	22	-36.145	21
396			min	0	1	0	7	0	1	0	19	0	16	-162.886	7
397		4	max	0.022	14	-3.74	21	0	22	0	13	0	16	-27.109	21
398			min	-0.022	24	-17.316	7	0	16	0	19	0	22	-122.168	7
399		5	max	0.022	14	-4.1	21	0	22	0	13	0	32	0	32
400			min	-0.022	24	-18.018	7	0	16	0	19	0	1	0	1
401	F1_G34	1	max	0.281	23	2.444	5	0	24	0	23	0	32	0	32
402			min	-0.392	13	0.539	23	0	6	0	5	0	1	0	1
403		2	max	0.281	23	2.26	5	0	24	0	23	0	24	-1.076	23
404			min	-0.392	13	0.454	23	0	6	0	5	0	6	-5.098	5
405		3	max	0.281	23	2.077	5	0	24	0	23	0	24	-1.967	23
406			min	-0.392	13	0.368	23	0	6	0	5	0	6	-9.798	5

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
407		4	max	0.281	23	1.894	5	0	24	0	23	0	24	-2.672	23
408			min	-0.392	13	0.283	23	0	6	0	5	-0.001	6	-14.101	5
409		5	max	2.514	13	-2.529	21	0.02	6	0	23	0	32	0	32
410			min	-1.804	23	-13.672	7	0.001	24	0	5	0	1	0	1
411	F1_G35	1	max	1.093	5	4.657	8	0	32	0	13	0	32	0	32
412			min	0.014	23	1.021	21	0	1	0	23	0	1	0	1
413		2	max	1.093	5	2.328	8	0	32	0	13	0	32	-2.966	32
414			min	0.014	23	0.51	21	0	1	0	23	0	1	-13.534	4
415		3	max	1.093	5	0	32	0	32	0	13	0	32	-3.955	32
416			min	0.014	23	0	1	0	1	0	23	0	1	-18.045	4
417		4	max	1.093	5	-0.51	32	0	32	0	13	0	32	-2.966	32
418			min	0.014	23	-2.328	4	0	1	0	23	0	1	-13.534	4
419		5	max	1.093	5	-1.021	32	0	32	0	13	0	32	0	32
420			min	0.014	23	-4.657	4	0	1	0	23	0	1	0	1
421	F1_G37	1	max	0.002	7	51.805	7	0	21	0.059	7	0	32	0	32
422			min	-0.001	21	11.499	21	0	15	0.012	21	0	1	0	1
423		2	max	0.013	22	18.375	7	0	22	0.059	7	0	16	-98.845	21
424			min	-0.014	16	4.181	21	0	16	0.012	21	0	22	-453.278	7
425		3	max	0	16	-3.247	23	0	16	0.059	7	0	22	-132.114	23
426			min	0	22	-15.929	5	0	22	0.012	21	0	16	-607.174	4
427		4	max	0.014	20	-10.574	23	0	16	0.059	7	0	22	-98.87	23
428			min	-0.014	14	-49.593	5	0	22	0.012	21	0	16	-454.203	5
429		5	max	0.014	20	-11.197	23	0	16	0.059	7	0	32	0	32
430			min	-0.014	14	-50.424	5	0	22	0.012	21	0	1	0	1
431	F1_G38	1	max	0.028	16	51.39	7	0	16	0	13	0	32	0	32
432			min	-0.028	22	11.355	21	0	22	0	19	0	1	0	1
433		2	max	0.028	16	50.559	7	0	16	0	13	0	16	-100.301	21
434			min	-0.028	22	10.732	21	0	22	0	19	0	22	-462.977	7
435		3	max	0	32	16.256	7	0	32	0	13	0	22	-134.071	21
436			min	0	1	3.304	21	0	1	0	19	0	16	-618.983	7
437		4	max	0.028	22	-4.124	23	0	14	0	13	0	14	-101.313	21
438			min	-0.028	16	-18.048	5	0	20	0	19	0	24	-468.028	7
439		5	max	4.562	13	-14.145	23	0.153	6	0	13	0	32	0	32
440			min	-3.088	23	-66.828	5	0.007	24	0	19	0	1	0	1
441	F1_G39	1	max	0	32	16.157	8	0	32	0.014	5	0	32	0	32
442			min	0	7	3.308	21	0	1	0.003	23	0	1	0	1
443		2	max	0	32	8.379	8	0	32	0.014	5	0	32	-21.287	32
444			min	0	7	1.879	21	0	1	0.003	23	0	1	-100.69	4
445		3	max	0	32	0.7	1	0	32	0.014	5	0	32	-30.845	32
446			min	0	7	0.45	21	0	1	0.003	23	0	1	-137.537	4
447		4	max	0	32	-1.879	32	0	32	0.014	5	0	32	-21.287	32
448			min	0	7	-8.379	4	0	1	0.003	23	0	1	-100.69	4
449		5	max	0	32	-3.308	32	0	32	0.014	5	0	32	0	32
450			min	0	7	-16.157	4	0	1	0.003	23	0	1	0	1
451	F1_G40	1	max	0	13	16.41	5	0	23	0.003	5	0	32	0	32
452			min	0	23	3.363	23	0	21	0.001	23	0	1	0	1
453		2	max	0	13	8.513	5	0	23	0.003	5	0	23	-21.981	23
454			min	0	23	1.913	23	0	21	0.001	23	0	21	-103.834	5
455		3	max	0	13	-0.433	21	0	23	0.003	5	0	23	-31.871	23
456			min	0	23	-0.673	1	0	21	0.001	23	0	21	-141.862	5
457		4	max	0	13	-1.889	21	0	23	0.003	5	0	23	-22.176	23
458			min	0	23	-8.482	7	0	21	0.001	23	0	21	-104.092	5
459		5	max	0.001	23	-3.387	21	0	23	0.003	5	0	32	0	32
460			min	-0.001	13	-16.442	7	0	13	0.001	23	0	1	0	1
461	F1_G41	1	max	0	15	16.157	8	0	32	-0.004	21	0	32	0	32
462			min	0	21	3.308	21	0	1	-0.016	7	0	1	0	1
463		2	max	0	15	8.379	8	0	32	-0.004	21	0	32	-21.287	32
464			min	0	21	1.879	21	0	1	-0.016	7	0	1	-100.69	4

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
465		3	max	0	15	0.7	1	0	32	-0.004	21	0	32	-30.845	32
466			min	0	21	0.45	21	0	1	-0.016	7	0	1	-137.537	4
467		4	max	0	15	-1.879	32	0	32	-0.004	21	0	32	-21.287	32
468			min	0	21	-8.379	4	0	1	-0.016	7	0	1	-100.69	4
469		5	max	0	15	-3.308	32	0	32	-0.004	21	0	32	0	32
470			min	0	21	-16.157	4	0	1	-0.016	7	0	1	0	1
471	F1_G42	1	max	0.002	14	19.723	7	0	21	0	13	0	32	0	32
472			min	-0.002	24	6.853	21	0	23	0	19	0	1	0	1
473		2	max	0	15	9.861	7	0	15	0	13	0	21	-38.124	21
474			min	0	21	3.426	21	0	21	0	19	0	15	-110.375	7
475		3	max	0	21	0	7	0	15	0	13	0	15	-50.832	21
476			min	0	15	0	21	0	21	0	19	0	21	-147.166	7
477		4	max	0	21	-3.426	23	0	15	0	13	0	15	-38.124	21
478			min	0	15	-9.861	5	0	21	0	19	0	21	-110.375	7
479		5	max	0.002	24	-6.853	23	0	15	0	13	0	32	0	32
480			min	-0.002	14	-19.723	5	0	21	0	19	0	1	0	1
481	F1_G43	1	max	0.002	14	19.723	7	0	13	0	13	0	32	0	32
482			min	-0.002	24	6.853	21	0	15	0	19	0	1	0	1
483		2	max	0	14	9.861	7	0	5	0	13	0	24	-38.124	23
484			min	0	24	3.426	21	0	1	0	19	0	14	-110.375	5
485		3	max	0	15	0	23	0	13	0	13	0	21	-50.832	23
486			min	0	13	0	5	0	23	0	19	0	15	-147.166	5
487		4	max	0	20	-3.426	23	0	14	0	13	0	14	-38.124	23
488			min	0	14	-9.861	5	0	24	0	19	0	24	-110.375	5
489		5	max	0.002	24	-6.853	23	0	13	0	13	0	32	0	32
490			min	-0.002	14	-19.723	5	0	23	0	19	0	1	0	1
491	F1_G44	1	max	0.002	14	19.723	5	0	21	0	13	0	32	0	32
492			min	-0.001	24	6.853	23	0	15	0	23	0	1	0	1
493		2	max	0	15	9.861	5	0	32	0	13	0	21	-38.124	23
494			min	0	1	3.426	23	0	1	0	23	0	15	-110.375	5
495		3	max	0	15	0	5	0	32	0	13	0	20	-50.832	23
496			min	0	1	0	23	0	1	0	23	0	14	-147.166	5
497		4	max	0	15	-3.426	21	0	32	0	13	0	15	-38.124	21
498			min	0	1	-9.861	7	0	1	0	23	0	21	-110.375	7
499		5	max	0.001	24	-6.853	21	0	24	0	13	0	32	0	32
500			min	-0.002	14	-19.723	7	0	14	0	23	0	1	0	1
501	F1_G45	1	max	0.002	14	19.723	5	0	21	0	13	0	32	0	32
502			min	-0.001	24	6.853	23	0	15	0	23	0	1	0	1
503		2	max	0	32	9.861	5	0	13	0	13	0	19	-38.123	23
504			min	0	1	3.426	23	0	15	0	23	0	13	-110.372	5
505		3	max	0	32	0	21	0	13	0	13	0	21	-50.83	23
506			min	0	1	0	7	0	1	0	23	0	15	-147.162	5
507		4	max	0	32	-3.426	21	0	13	0	13	0	13	-38.123	23
508			min	0	1	-9.861	7	0	19	0	23	0	15	-110.373	5
509		5	max	0.001	24	-6.853	21	0	21	0	13	0	32	0	32
510			min	-0.002	14	-19.723	7	0	15	0	23	0	1	0	1
511	F1_G46	1	max	0	32	4.702	8	0	32	0.001	5	0	32	0	32
512			min	0	1	1.576	21	0	1	0	23	0	1	0	1
513		2	max	0	32	2.351	8	0	32	0.001	5	0	32	-9.699	32
514			min	0	1	0.788	21	0	1	0	23	0	1	-28.945	4
515		3	max	0	32	0	32	0	32	0.001	5	0	32	-12.932	32
516			min	0	1	0	1	0	1	0	23	0	1	-38.593	4
517		4	max	0	32	-0.788	32	0	32	0.001	5	0	32	-9.699	32
518			min	0	1	-2.351	4	0	1	0	23	0	1	-28.945	4
519		5	max	0	32	-1.576	32	0	32	0.001	5	0	32	0	32
520			min	0	1	-4.702	4	0	1	0	23	0	1	0	1
521	F1_G47	1	max	0	32	4.774	8	0	32	0	23	0	32	0	32
522			min	0	1	1.6	21	0	1	0	13	0	1	0	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
523		2	max	0	32	2.387	8	0	32	0	23	0	32	-9.997	32
524			min	0	1	0.8	21	0	1	0	13	0	1	-29.833	4
525		3	max	0	32	0	32	0	32	0	23	0	32	-13.329	32
526			min	0	1	0	1	0	1	0	13	0	1	-39.778	4
527		4	max	0	32	-0.8	32	0	32	0	23	0	32	-9.997	32
528			min	0	1	-2.387	4	0	1	0	13	0	1	-29.833	4
529		5	max	0	32	-1.6	32	0	32	0	23	0	32	0	32
530			min	0	1	-4.774	4	0	1	0	13	0	1	0	1
531	F1_G48	1	max	0	32	4.702	8	0	32	0	21	0	32	0	32
532			min	0	1	1.576	21	0	1	-0.001	7	0	1	0	1
533		2	max	0	32	2.351	8	0	32	0	21	0	32	-9.699	32
534			min	0	1	0.788	21	0	1	-0.001	7	0	1	-28.945	4
535		3	max	0	32	0	32	0	32	0	21	0	32	-12.932	32
536			min	0	1	0	1	0	1	-0.001	7	0	1	-38.593	4
537		4	max	0	32	-0.788	32	0	32	0	21	0	32	-9.699	32
538			min	0	1	-2.351	4	0	1	-0.001	7	0	1	-28.945	4
539		5	max	0	32	-1.576	32	0	32	0	21	0	32	0	32
540			min	0	1	-4.702	4	0	1	-0.001	7	0	1	0	1
541	F1_G49	1	max	0	32	4.744	8	0	32	0	23	0	32	0	32
542			min	0	1	1.588	21	0	1	-0.001	5	0	1	0	1
543		2	max	0	32	2.372	8	0	32	0	23	0	32	-9.776	32
544			min	0	1	0.794	21	0	1	-0.001	5	0	1	-29.202	4
545		3	max	0	32	0	32	0	32	0	23	0	32	-13.035	32
546			min	0	1	0	1	0	1	-0.001	5	0	1	-38.936	4
547		4	max	0	32	-0.794	32	0	32	0	23	0	32	-9.776	32
548			min	0	1	-2.372	4	0	1	-0.001	5	0	1	-29.202	4
549		5	max	0	32	-1.588	32	0	32	0	23	0	32	0	32
550			min	0	1	-4.744	4	0	1	-0.001	5	0	1	0	1
551	F1_G50	1	max	0	32	4.816	8	0	32	0	21	0	32	0	32
552			min	0	1	1.612	21	0	1	0	7	0	1	0	1
553		2	max	0	32	2.408	8	0	32	0	21	0	32	-10.076	32
554			min	0	1	0.806	21	0	1	0	7	0	1	-30.099	4
555		3	max	0	32	0	32	0	32	0	21	0	32	-13.435	32
556			min	0	1	0	1	0	1	0	7	0	1	-40.131	4
557		4	max	0	32	-0.806	32	0	32	0	21	0	32	-10.076	32
558			min	0	1	-2.408	4	0	1	0	7	0	1	-30.099	4
559		5	max	0	32	-1.612	32	0	32	0	21	0	32	0	32
560			min	0	1	-4.816	4	0	1	0	7	0	1	0	1
561	F1_G51	1	max	0	32	4.744	8	0	32	0.001	7	0	32	0	32
562			min	0	1	1.588	21	0	1	0	21	0	1	0	1
563		2	max	0	32	2.372	8	0	32	0.001	7	0	32	-9.776	32
564			min	0	1	0.794	21	0	1	0	21	0	1	-29.202	4
565		3	max	0	32	0	32	0	32	0.001	7	0	32	-13.035	32
566			min	0	1	0	1	0	1	0	21	0	1	-38.936	4
567		4	max	0	32	-0.794	32	0	32	0.001	7	0	32	-9.776	32
568			min	0	1	-2.372	4	0	1	0	21	0	1	-29.202	4
569		5	max	0	32	-1.588	32	0	32	0.001	7	0	32	0	32
570			min	0	1	-4.744	4	0	1	0	21	0	1	0	1
571	F1_G52	1	max	0	32	4.744	8	0	32	0.003	7	0	32	0	32
572			min	0	15	1.588	21	0	1	0.001	21	0	1	0	1
573		2	max	0	32	2.372	8	0	32	0.003	7	0	32	-9.776	32
574			min	0	15	0.794	21	0	1	0.001	21	0	1	-29.202	4
575		3	max	0	32	0	32	0	32	0.003	7	0	32	-13.035	32
576			min	0	15	0	1	0	1	0.001	21	0	1	-38.936	4
577		4	max	0	32	-0.794	32	0	32	0.003	7	0	32	-9.776	32
578			min	0	15	-2.372	4	0	1	0.001	21	0	1	-29.202	4
579		5	max	0	32	-1.588	32	0	32	0.003	7	0	32	0	32
580			min	0	15	-4.744	4	0	1	0.001	21	0	1	0	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
581	F1_G53	1	max	0	32	4.816	8	0	32	0	7	0	32	0	32
582			min	0	1	1.612	21	0	1	0	21	0	1	0	1
583		2	max	0	32	2.408	8	0	32	0	7	0	32	-10.076	32
584			min	0	1	0.806	21	0	1	0	21	0	1	-30.099	4
585		3	max	0	32	0	32	0	32	0	7	0	32	-13.435	32
586			min	0	1	0	1	0	1	0	21	0	1	-40.131	4
587		4	max	0	32	-0.806	32	0	32	0	7	0	32	-10.076	32
588			min	0	1	-2.408	4	0	1	0	21	0	1	-30.099	4
589		5	max	0	32	-1.612	32	0	32	0	7	0	32	0	32
590			min	0	1	-4.816	4	0	1	0	21	0	1	0	1
591	F1_G54	1	max	0	32	4.744	8	0	32	0	23	0	32	0	32
592			min	0	1	1.588	21	0	1	-0.001	5	0	1	0	1
593		2	max	0	32	2.372	8	0	32	0	23	0	32	-9.776	32
594			min	0	1	0.794	21	0	1	-0.001	5	0	1	-29.202	4
595		3	max	0	32	0	32	0	32	0	23	0	32	-13.035	32
596			min	0	1	0	1	0	1	-0.001	5	0	1	-38.936	4
597		4	max	0	32	-0.794	32	0	32	0	23	0	32	-9.776	32
598			min	0	1	-2.372	4	0	1	-0.001	5	0	1	-29.202	4
599		5	max	0	32	-1.588	32	0	32	0	23	0	32	0	32
600			min	0	1	-4.744	4	0	1	-0.001	5	0	1	0	1
601	F1_G55	1	max	0	32	4.702	8	0	32	-0.001	22	0	32	0	32
602			min	0	1	1.576	21	0	1	-0.003	8	0	1	0	1
603		2	max	0	32	2.351	8	0	32	-0.001	22	0	32	-9.699	32
604			min	0	1	0.788	21	0	1	-0.003	8	0	1	-28.945	4
605		3	max	0	32	0	32	0	32	-0.001	22	0	32	-12.932	32
606			min	0	1	0	1	0	1	-0.003	8	0	1	-38.593	4
607		4	max	0	32	-0.788	32	0	32	-0.001	22	0	32	-9.699	32
608			min	0	1	-2.351	4	0	1	-0.003	8	0	1	-28.945	4
609		5	max	0	32	-1.576	32	0	32	-0.001	22	0	32	0	32
610			min	0	1	-4.702	4	0	1	-0.003	8	0	1	0	1
611	F1_G56	1	max	0	32	4.774	8	0	32	0	23	0	32	0	32
612			min	0	1	1.6	21	0	1	0	5	0	1	0	1
613		2	max	0	32	2.387	8	0	32	0	23	0	32	-9.997	32
614			min	0	1	0.8	21	0	1	0	5	0	1	-29.833	4
615		3	max	0	32	0	32	0	32	0	23	0	32	-13.329	32
616			min	0	1	0	1	0	1	0	5	0	1	-39.778	4
617		4	max	0	32	-0.8	32	0	32	0	23	0	32	-9.997	32
618			min	0	1	-2.387	4	0	1	0	5	0	1	-29.833	4
619		5	max	0	32	-1.6	32	0	32	0	23	0	32	0	32
620			min	0	1	-4.774	4	0	1	0	5	0	1	0	1
621	F1_G57	1	max	0	32	4.702	8	0	32	0.001	7	0	32	0	32
622			min	0	1	1.576	21	0	1	0	21	0	1	0	1
623		2	max	0	32	2.351	8	0	32	0.001	7	0	32	-9.699	32
624			min	0	1	0.788	21	0	1	0	21	0	1	-28.945	4
625		3	max	0	32	0	32	0	32	0.001	7	0	32	-12.932	32
626			min	0	1	0	1	0	1	0	21	0	1	-38.593	4
627		4	max	0	32	-0.788	32	0	32	0.001	7	0	32	-9.699	32
628			min	0	1	-2.351	4	0	1	0	21	0	1	-28.945	4
629		5	max	0	32	-1.576	32	0	32	0.001	7	0	32	0	32
630			min	0	1	-4.702	4	0	1	0	21	0	1	0	1
631	F1_J54	1	max	0	32	4.66	8	0	32	0.002	5	0	32	0	32
632			min	0	1	1.563	21	0	1	0.001	23	0	1	0	1
633		2	max	0	32	2.33	8	0	32	0.002	5	0	32	-9.622	32
634			min	0	1	0.782	21	0	1	0.001	23	0	1	-28.687	4
635		3	max	0	32	0	32	0	32	0.002	5	0	32	-12.83	32
636			min	0	1	0	1	0	1	0.001	23	0	1	-38.25	4
637		4	max	0	32	-0.782	32	0	32	0.002	5	0	32	-9.622	32
638			min	0	1	-2.33	4	0	1	0.001	23	0	1	-28.687	4

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
639		5	max	0	32	-1.563	32	0	32	0.002	5	0	32	0	32
640			min	0	1	-4.66	4	0	1	0.001	23	0	1	0	1
641	F1_J55	1	max	0	32	4.66	8	0	32	0.001	5	0	32	0	32
642			min	0	1	1.563	21	0	1	0	23	0	1	0	1
643		2	max	0	32	2.33	8	0	32	0.001	5	0	32	-9.622	32
644			min	0	1	0.782	21	0	1	0	23	0	1	-28.687	4
645		3	max	0	32	0	32	0	32	0.001	5	0	32	-12.83	32
646			min	0	1	0	1	0	1	0	23	0	1	-38.25	4
647		4	max	0	32	-0.782	32	0	32	0.001	5	0	32	-9.622	32
648			min	0	1	-2.33	4	0	1	0	23	0	1	-28.687	4
649		5	max	0	32	-1.563	32	0	32	0.001	5	0	32	0	32
650			min	0	1	-4.66	4	0	1	0	23	0	1	0	1
651	F1_J56	1	max	0	32	4.66	8	0	32	0	5	0	32	0	32
652			min	0	1	1.563	21	0	1	0	23	0	1	0	1
653		2	max	0	32	2.33	8	0	32	0	5	0	32	-9.622	32
654			min	0	1	0.782	21	0	1	0	23	0	1	-28.687	4
655		3	max	0	32	0	32	0	32	0	5	0	32	-12.83	32
656			min	0	1	0	1	0	1	0	23	0	1	-38.25	4
657		4	max	0	32	-0.782	32	0	32	0	5	0	32	-9.622	32
658			min	0	1	-2.33	4	0	1	0	23	0	1	-28.687	4
659		5	max	0	32	-1.563	32	0	32	0	5	0	32	0	32
660			min	0	1	-4.66	4	0	1	0	23	0	1	0	1
661	F1_J57	1	max	0	32	4.66	8	0	32	0	21	0	32	0	32
662			min	0	1	1.563	21	0	1	-0.001	7	0	1	0	1
663		2	max	0	32	2.33	8	0	32	0	21	0	32	-9.622	32
664			min	0	1	0.782	21	0	1	-0.001	7	0	1	-28.687	4
665		3	max	0	32	0	32	0	32	0	21	0	32	-12.83	32
666			min	0	1	0	1	0	1	-0.001	7	0	1	-38.25	4
667		4	max	0	32	-0.782	32	0	32	0	21	0	32	-9.622	32
668			min	0	1	-2.33	4	0	1	-0.001	7	0	1	-28.687	4
669		5	max	0	32	-1.563	32	0	32	0	21	0	32	0	32
670			min	0	1	-4.66	4	0	1	-0.001	7	0	1	0	1
671	F1_J58	1	max	0	32	4.66	8	0	32	0	21	0	32	0	32
672			min	0	1	1.563	21	0	1	-0.001	7	0	1	0	1
673		2	max	0	32	2.33	8	0	32	0	21	0	32	-9.622	32
674			min	0	1	0.782	21	0	1	-0.001	7	0	1	-28.687	4
675		3	max	0	32	0	32	0	32	0	21	0	32	-12.83	32
676			min	0	1	0	1	0	1	-0.001	7	0	1	-38.25	4
677		4	max	0	32	-0.782	32	0	32	0	21	0	32	-9.622	32
678			min	0	1	-2.33	4	0	1	-0.001	7	0	1	-28.687	4
679		5	max	0	32	-1.563	32	0	32	0	21	0	32	0	32
680			min	0	1	-4.66	4	0	1	-0.001	7	0	1	0	1
681	F1_J59	1	max	0	32	4.66	8	0	32	-0.001	21	0	32	0	32
682			min	0	1	1.563	21	0	1	-0.001	7	0	1	0	1
683		2	max	0	32	2.33	8	0	32	-0.001	21	0	32	-9.622	32
684			min	0	1	0.782	21	0	1	-0.001	7	0	1	-28.687	4
685		3	max	0	32	0	32	0	32	-0.001	21	0	32	-12.83	32
686			min	0	1	0	1	0	1	-0.001	7	0	1	-38.25	4
687		4	max	0	32	-0.782	32	0	32	-0.001	21	0	32	-9.622	32
688			min	0	1	-2.33	4	0	1	-0.001	7	0	1	-28.687	4
689		5	max	0	32	-1.563	32	0	32	-0.001	21	0	32	0	32
690			min	0	1	-4.66	4	0	1	-0.001	7	0	1	0	1
691	F1_J60	1	max	0	32	4.744	8	0	32	0	21	0	32	0	32
692			min	0	1	1.588	21	0	1	-0.001	7	0	1	0	1
693		2	max	0	32	2.372	8	0	32	0	21	0	32	-9.776	32
694			min	0	1	0.794	21	0	1	-0.001	7	0	1	-29.202	4
695		3	max	0	32	0	32	0	32	0	21	0	32	-13.035	32
696			min	0	1	0	1	0	1	-0.001	7	0	1	-38.936	4

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
697		4	max	0	32	-0.794	32	0	32	0	21	0	32	-9.776	32
698			min	0	1	-2.372	4	0	1	-0.001	7	0	1	-29.202	4
699		5	max	0	32	-1.588	32	0	32	0	21	0	32	0	32
700			min	0	1	-4.744	4	0	1	-0.001	7	0	1	0	1
701	F1_J61	1	max	0	32	4.744	8	0	32	0.001	7	0	32	0	32
702			min	0	1	1.588	21	0	1	0	21	0	1	0	1
703		2	max	0	32	2.372	8	0	32	0.001	7	0	32	-9.776	32
704			min	0	1	0.794	21	0	1	0	21	0	1	-29.202	4
705		3	max	0	32	0	32	0	32	0.001	7	0	32	-13.035	32
706			min	0	1	0	1	0	1	0	21	0	1	-38.936	4
707		4	max	0	32	-0.794	32	0	32	0.001	7	0	32	-9.776	32
708			min	0	1	-2.372	4	0	1	0	21	0	1	-29.202	4
709		5	max	0	32	-1.588	32	0	32	0.001	7	0	32	0	32
710			min	0	1	-4.744	4	0	1	0	21	0	1	0	1
711	F1_J62	1	max	0	32	4.744	8	0	32	0.001	7	0	32	0	32
712			min	0	1	1.588	21	0	1	0	21	0	1	0	1
713		2	max	0	32	2.372	8	0	32	0.001	7	0	32	-9.776	32
714			min	0	1	0.794	21	0	1	0	21	0	1	-29.202	4
715		3	max	0	32	0	32	0	32	0.001	7	0	32	-13.035	32
716			min	0	1	0	1	0	1	0	21	0	1	-38.936	4
717		4	max	0	32	-0.794	32	0	32	0.001	7	0	32	-9.776	32
718			min	0	1	-2.372	4	0	1	0	21	0	1	-29.202	4
719		5	max	0	32	-1.588	32	0	32	0.001	7	0	32	0	32
720			min	0	1	-4.744	4	0	1	0	21	0	1	0	1
721	F1_J63	1	max	0	32	4.744	8	0	32	0	23	0	32	0	32
722			min	0	1	1.588	21	0	1	0	5	0	1	0	1
723		2	max	0	32	2.372	8	0	32	0	23	0	32	-9.776	32
724			min	0	1	0.794	21	0	1	0	5	0	1	-29.202	4
725		3	max	0	32	0	32	0	32	0	23	0	32	-13.035	32
726			min	0	1	0	1	0	1	0	5	0	1	-38.936	4
727		4	max	0	32	-0.794	32	0	32	0	23	0	32	-9.776	32
728			min	0	1	-2.372	4	0	1	0	5	0	1	-29.202	4
729		5	max	0	32	-1.588	32	0	32	0	23	0	32	0	32
730			min	0	1	-4.744	4	0	1	0	5	0	1	0	1
731	F1_J64	1	max	0	32	4.744	8	0	32	0	23	0	32	0	32
732			min	0	1	1.588	21	0	1	-0.001	5	0	1	0	1
733		2	max	0	32	2.372	8	0	32	0	23	0	32	-9.776	32
734			min	0	1	0.794	21	0	1	-0.001	5	0	1	-29.202	4
735		3	max	0	32	0	32	0	32	0	23	0	32	-13.035	32
736			min	0	1	0	1	0	1	-0.001	5	0	1	-38.936	4
737		4	max	0	32	-0.794	32	0	32	0	23	0	32	-9.776	32
738			min	0	1	-2.372	4	0	1	-0.001	5	0	1	-29.202	4
739		5	max	0	32	-1.588	32	0	32	0	23	0	32	0	32
740			min	0	1	-4.744	4	0	1	-0.001	5	0	1	0	1
741	F1_J65	1	max	0	32	4.744	8	0	32	0.001	7	0	32	0	32
742			min	0	1	1.588	21	0	1	0	21	0	1	0	1
743		2	max	0	32	2.372	8	0	32	0.001	7	0	32	-9.776	32
744			min	0	1	0.794	21	0	1	0	21	0	1	-29.202	4
745		3	max	0	32	0	32	0	32	0.001	7	0	32	-13.035	32
746			min	0	1	0	1	0	1	0	21	0	1	-38.936	4
747		4	max	0	32	-0.794	32	0	32	0.001	7	0	32	-9.776	32
748			min	0	1	-2.372	4	0	1	0	21	0	1	-29.202	4
749		5	max	0	32	-1.588	32	0	32	0.001	7	0	32	0	32
750			min	0	1	-4.744	4	0	1	0	21	0	1	0	1
751	F1_J66	1	max	0	32	4.744	8	0	32	0.002	7	0	32	0	32
752			min	0	1	1.588	21	0	1	0.001	21	0	1	0	1
753		2	max	0	32	2.372	8	0	32	0.002	7	0	32	-9.776	32
754			min	0	1	0.794	21	0	1	0.001	21	0	1	-29.202	4

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
755		3	max	0	32	0	32	0	32	0.002	7	0	32	-13.035	32
756			min	0	1	0	1	0	1	0.001	21	0	1	-38.936	4
757		4	max	0	32	-0.794	32	0	32	0.002	7	0	32	-9.776	32
758			min	0	1	-2.372	4	0	1	0.001	21	0	1	-29.202	4
759		5	max	0	32	-1.588	32	0	32	0.002	7	0	32	0	32
760			min	0	1	-4.744	4	0	1	0.001	21	0	1	0	1
761	F1_J67	1	max	0	32	4.744	8	0	32	0.001	5	0	32	0	32
762			min	0	1	1.588	21	0	1	0	23	0	1	0	1
763		2	max	0	32	2.372	8	0	32	0.001	5	0	32	-9.776	32
764			min	0	1	0.794	21	0	1	0	23	0	1	-29.202	4
765		3	max	0	32	0	32	0	32	0.001	5	0	32	-13.035	32
766			min	0	1	0	1	0	1	0	23	0	1	-38.936	4
767		4	max	0	32	-0.794	32	0	32	0.001	5	0	32	-9.776	32
768			min	0	1	-2.372	4	0	1	0	23	0	1	-29.202	4
769		5	max	0	32	-1.588	32	0	32	0.001	5	0	32	0	32
770			min	0	1	-4.744	4	0	1	0	23	0	1	0	1
771	F1_J68	1	max	0	32	4.744	8	0	32	0	5	0	32	0	32
772			min	0	1	1.588	21	0	1	0	23	0	1	0	1
773		2	max	0	32	2.372	8	0	32	0	5	0	32	-9.776	32
774			min	0	1	0.794	21	0	1	0	23	0	1	-29.202	4
775		3	max	0	32	0	32	0	32	0	5	0	32	-13.035	32
776			min	0	1	0	1	0	1	0	23	0	1	-38.936	4
777		4	max	0	32	-0.794	32	0	32	0	5	0	32	-9.776	32
778			min	0	1	-2.372	4	0	1	0	23	0	1	-29.202	4
779		5	max	0	32	-1.588	32	0	32	0	5	0	32	0	32
780			min	0	1	-4.744	4	0	1	0	23	0	1	0	1
781	F1_J69	1	max	0	32	4.744	8	0	32	0	21	0	32	0	32
782			min	0	1	1.588	21	0	1	0	7	0	1	0	1
783		2	max	0	32	2.372	8	0	32	0	21	0	32	-9.776	32
784			min	0	1	0.794	21	0	1	0	7	0	1	-29.202	4
785		3	max	0	32	0	32	0	32	0	21	0	32	-13.035	32
786			min	0	1	0	1	0	1	0	7	0	1	-38.936	4
787		4	max	0	32	-0.794	32	0	32	0	21	0	32	-9.776	32
788			min	0	1	-2.372	4	0	1	0	7	0	1	-29.202	4
789		5	max	0	32	-1.588	32	0	32	0	21	0	32	0	32
790			min	0	1	-4.744	4	0	1	0	7	0	1	0	1
791	F1_J70	1	max	0	32	4.744	8	0	32	0	24	0	32	0	32
792			min	0	1	1.588	21	0	1	-0.001	6	0	1	0	1
793		2	max	0	32	2.372	8	0	32	0	24	0	32	-9.776	32
794			min	0	1	0.794	21	0	1	-0.001	6	0	1	-29.202	4
795		3	max	0	32	0	32	0	32	0	24	0	32	-13.035	32
796			min	0	1	0	1	0	1	-0.001	6	0	1	-38.936	4
797		4	max	0	32	-0.794	32	0	32	0	24	0	32	-9.776	32
798			min	0	1	-2.372	4	0	1	-0.001	6	0	1	-29.202	4
799		5	max	0	32	-1.588	32	0	32	0	24	0	32	0	32
800			min	0	1	-4.744	4	0	1	-0.001	6	0	1	0	1
801	F1_J71	1	max	0	32	4.744	8	0	32	-0.001	23	0	32	0	32
802			min	0	1	1.588	21	0	1	-0.002	5	0	1	0	1
803		2	max	0	32	2.372	8	0	32	-0.001	23	0	32	-9.776	32
804			min	0	1	0.794	21	0	1	-0.002	5	0	1	-29.202	4
805		3	max	0	32	0	32	0	32	-0.001	23	0	32	-13.035	32
806			min	0	1	0	1	0	1	-0.002	5	0	1	-38.936	4
807		4	max	0	32	-0.794	32	0	32	-0.001	23	0	32	-9.776	32
808			min	0	1	-2.372	4	0	1	-0.002	5	0	1	-29.202	4
809		5	max	0	32	-1.588	32	0	32	-0.001	23	0	32	0	32
810			min	0	1	-4.744	4	0	1	-0.002	5	0	1	0	1
811	F1_J72	1	max	0	32	4.744	8	0	32	0	23	0	32	0	32
812			min	0	1	1.588	21	0	1	-0.001	5	0	1	0	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
813		2	max	0	32	2.372	8	0	32	0	23	0	32	-9.776	32
814			min	0	1	0.794	21	0	1	-0.001	5	0	1	-29.202	4
815		3	max	0	32	0	32	0	32	0	23	0	32	-13.035	32
816			min	0	1	0	1	0	1	-0.001	5	0	1	-38.936	4
817		4	max	0	32	-0.794	32	0	32	0	23	0	32	-9.776	32
818			min	0	1	-2.372	4	0	1	-0.001	5	0	1	-29.202	4
819		5	max	0	32	-1.588	32	0	32	0	23	0	32	0	32
820			min	0	1	-4.744	4	0	1	-0.001	5	0	1	0	1
821	F1_J73	1	max	0	32	4.744	8	0	32	0.001	5	0	32	0	32
822			min	0	1	1.588	21	0	1	0	23	0	1	0	1
823		2	max	0	32	2.372	8	0	32	0.001	5	0	32	-9.776	32
824			min	0	1	0.794	21	0	1	0	23	0	1	-29.202	4
825		3	max	0	32	0	32	0	32	0.001	5	0	32	-13.035	32
826			min	0	1	0	1	0	1	0	23	0	1	-38.936	4
827		4	max	0	32	-0.794	32	0	32	0.001	5	0	32	-9.776	32
828			min	0	1	-2.372	4	0	1	0	23	0	1	-29.202	4
829		5	max	0	32	-1.588	32	0	32	0.001	5	0	32	0	32
830			min	0	1	-4.744	4	0	1	0	23	0	1	0	1
831	F1_J74	1	max	0	32	4.744	8	0	32	0	5	0	32	0	32
832			min	0	1	1.588	21	0	1	0	23	0	1	0	1
833		2	max	0	32	2.372	8	0	32	0	5	0	32	-9.776	32
834			min	0	1	0.794	21	0	1	0	23	0	1	-29.202	4
835		3	max	0	32	0	32	0	32	0	5	0	32	-13.035	32
836			min	0	1	0	1	0	1	0	23	0	1	-38.936	4
837		4	max	0	32	-0.794	32	0	32	0	5	0	32	-9.776	32
838			min	0	1	-2.372	4	0	1	0	23	0	1	-29.202	4
839		5	max	0	32	-1.588	32	0	32	0	5	0	32	0	32
840			min	0	1	-4.744	4	0	1	0	23	0	1	0	1
841	F1_J75	1	max	0	32	4.744	8	0	32	0	21	0	32	0	32
842			min	0	1	1.588	21	0	1	-0.001	7	0	1	0	1
843		2	max	0	32	2.372	8	0	32	0	21	0	32	-9.776	32
844			min	0	1	0.794	21	0	1	-0.001	7	0	1	-29.202	4
845		3	max	0	32	0	32	0	32	0	21	0	32	-13.035	32
846			min	0	1	0	1	0	1	-0.001	7	0	1	-38.936	4
847		4	max	0	32	-0.794	32	0	32	0	21	0	32	-9.776	32
848			min	0	1	-2.372	4	0	1	-0.001	7	0	1	-29.202	4
849		5	max	0	32	-1.588	32	0	32	0	21	0	32	0	32
850			min	0	1	-4.744	4	0	1	-0.001	7	0	1	0	1
851	F1_J76	1	max	0	32	4.744	8	0	32	0	21	0	32	0	32
852			min	0	1	1.588	21	0	1	-0.001	7	0	1	0	1
853		2	max	0	32	2.372	8	0	32	0	21	0	32	-9.776	32
854			min	0	1	0.794	21	0	1	-0.001	7	0	1	-29.202	4
855		3	max	0	32	0	32	0	32	0	21	0	32	-13.035	32
856			min	0	1	0	1	0	1	-0.001	7	0	1	-38.936	4
857		4	max	0	32	-0.794	32	0	32	0	21	0	32	-9.776	32
858			min	0	1	-2.372	4	0	1	-0.001	7	0	1	-29.202	4
859		5	max	0	32	-1.588	32	0	32	0	21	0	32	0	32
860			min	0	1	-4.744	4	0	1	-0.001	7	0	1	0	1
861	F1_J77	1	max	0	13	4.744	8	0	32	0.001	7	0	32	0	32
862			min	0	15	1.588	21	0	1	0	21	0	1	0	1
863		2	max	0	13	2.372	8	0	32	0.001	7	0	32	-9.776	32
864			min	0	15	0.794	21	0	1	0	21	0	1	-29.202	4
865		3	max	0	13	0	32	0	32	0.001	7	0	32	-13.035	32
866			min	0	15	0	1	0	1	0	21	0	1	-38.936	4
867		4	max	0	13	-0.794	32	0	32	0.001	7	0	32	-9.776	32
868			min	0	15	-2.372	4	0	1	0	21	0	1	-29.202	4
869		5	max	0	13	-1.588	32	0	32	0.001	7	0	32	0	32
870			min	0	15	-4.744	4	0	1	0	21	0	1	0	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
871	F1_J78	1	max	0	32	4.66	8	0	32	0.001	5	0	32	0	32
872			min	0	1	1.563	21	0	1	0.001	22	0	1	0	1
873		2	max	0	32	2.33	8	0	32	0.001	5	0	32	-9.622	32
874			min	0	1	0.782	21	0	1	0.001	22	0	1	-28.687	4
875		3	max	0	32	0	32	0	32	0.001	5	0	32	-12.83	32
876			min	0	1	0	1	0	1	0.001	22	0	1	-38.25	4
877		4	max	0	32	-0.782	32	0	32	0.001	5	0	32	-9.622	32
878			min	0	1	-2.33	4	0	1	0.001	22	0	1	-28.687	4
879		5	max	0	32	-1.563	32	0	32	0.001	5	0	32	0	32
880			min	0	1	-4.66	4	0	1	0.001	22	0	1	0	1
881	F1_J79	1	max	0	32	4.66	8	0	32	0.001	5	0	32	0	32
882			min	0	1	1.563	21	0	1	0	23	0	1	0	1
883		2	max	0	32	2.33	8	0	32	0.001	5	0	32	-9.622	32
884			min	0	1	0.782	21	0	1	0	23	0	1	-28.687	4
885		3	max	0	32	0	32	0	32	0.001	5	0	32	-12.83	32
886			min	0	1	0	1	0	1	0	23	0	1	-38.25	4
887		4	max	0	32	-0.782	32	0	32	0.001	5	0	32	-9.622	32
888			min	0	1	-2.33	4	0	1	0	23	0	1	-28.687	4
889		5	max	0	32	-1.563	32	0	32	0.001	5	0	32	0	32
890			min	0	1	-4.66	4	0	1	0	23	0	1	0	1
891	F1_J80	1	max	0	32	4.66	8	0	32	0.001	5	0	32	0	32
892			min	0	1	1.563	21	0	1	0	23	0	1	0	1
893		2	max	0	32	2.33	8	0	32	0.001	5	0	32	-9.622	32
894			min	0	1	0.782	21	0	1	0	23	0	1	-28.687	4
895		3	max	0	32	0	32	0	32	0.001	5	0	32	-12.83	32
896			min	0	1	0	1	0	1	0	23	0	1	-38.25	4
897		4	max	0	32	-0.782	32	0	32	0.001	5	0	32	-9.622	32
898			min	0	1	-2.33	4	0	1	0	23	0	1	-28.687	4
899		5	max	0	32	-1.563	32	0	32	0.001	5	0	32	0	32
900			min	0	1	-4.66	4	0	1	0	23	0	1	0	1
901	F1_J81	1	max	0	32	4.66	8	0	32	0	21	0	32	0	32
902			min	0	1	1.563	21	0	1	0	7	0	1	0	1
903		2	max	0	32	2.33	8	0	32	0	21	0	32	-9.622	32
904			min	0	1	0.782	21	0	1	0	7	0	1	-28.687	4
905		3	max	0	32	0	32	0	32	0	21	0	32	-12.83	32
906			min	0	1	0	1	0	1	0	7	0	1	-38.25	4
907		4	max	0	32	-0.782	32	0	32	0	21	0	32	-9.622	32
908			min	0	1	-2.33	4	0	1	0	7	0	1	-28.687	4
909		5	max	0	32	-1.563	32	0	32	0	21	0	32	0	32
910			min	0	1	-4.66	4	0	1	0	7	0	1	0	1
911	F1_J82	1	max	0	32	4.66	8	0	32	0	21	0	32	0	32
912			min	0	1	1.563	21	0	1	-0.001	7	0	1	0	1
913		2	max	0	32	2.33	8	0	32	0	21	0	32	-9.622	32
914			min	0	1	0.782	21	0	1	-0.001	7	0	1	-28.687	4
915		3	max	0	32	0	32	0	32	0	21	0	32	-12.83	32
916			min	0	1	0	1	0	1	-0.001	7	0	1	-38.25	4
917		4	max	0	32	-0.782	32	0	32	0	21	0	32	-9.622	32
918			min	0	1	-2.33	4	0	1	-0.001	7	0	1	-28.687	4
919		5	max	0	32	-1.563	32	0	32	0	21	0	32	0	32
920			min	0	1	-4.66	4	0	1	-0.001	7	0	1	0	1
921	F1_J83	1	max	0	32	4.66	8	0	32	-0.001	21	0	32	0	32
922			min	0	1	1.563	21	0	1	-0.002	7	0	1	0	1
923		2	max	0	32	2.33	8	0	32	-0.001	21	0	32	-9.622	32
924			min	0	1	0.782	21	0	1	-0.002	7	0	1	-28.687	4
925		3	max	0	32	0	32	0	32	-0.001	21	0	32	-12.83	32
926			min	0	1	0	1	0	1	-0.002	7	0	1	-38.25	4
927		4	max	0	32	-0.782	32	0	32	-0.001	21	0	32	-9.622	32
928			min	0	1	-2.33	4	0	1	-0.002	7	0	1	-28.687	4

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
929		5	max	0	32	-1.563	32	0	32	-0.001	21	0	32	0	32
930			min	0	1	-4.66	4	0	1	-0.002	7	0	1	0	1
931	F1_J84	1	max	0	32	4.731	8	0	32	0	23	0	32	0	32
932			min	0	1	1.587	21	0	1	0	5	0	1	0	1
933		2	max	0	32	2.366	8	0	32	0	23	0	32	-9.918	32
934			min	0	1	0.793	21	0	1	0	5	0	1	-29.568	4
935		3	max	0	32	0	32	0	32	0	23	0	32	-13.223	32
936			min	0	1	0	1	0	1	0	5	0	1	-39.424	4
937		4	max	0	32	-0.793	32	0	32	0	23	0	32	-9.918	32
938			min	0	1	-2.366	4	0	1	0	5	0	1	-29.568	4
939		5	max	0	32	-1.587	32	0	32	0	23	0	32	0	32
940			min	0	1	-4.731	4	0	1	0	5	0	1	0	1
941	F1_J85	1	max	0	32	4.731	8	0	32	0	23	0	32	0	32
942			min	0	1	1.587	21	0	1	0	5	0	1	0	1
943		2	max	0	32	2.366	8	0	32	0	23	0	32	-9.918	32
944			min	0	1	0.793	21	0	1	0	5	0	1	-29.568	4
945		3	max	0	32	0	32	0	32	0	23	0	32	-13.223	32
946			min	0	1	0	1	0	1	0	5	0	1	-39.424	4
947		4	max	0	32	-0.793	32	0	32	0	23	0	32	-9.918	32
948			min	0	1	-2.366	4	0	1	0	5	0	1	-29.568	4
949		5	max	0	32	-1.587	32	0	32	0	23	0	32	0	32
950			min	0	1	-4.731	4	0	1	0	5	0	1	0	1
951	F1_J86	1	max	0	32	4.731	8	0	32	0	23	0	32	0	32
952			min	0	1	1.587	21	0	1	0	5	0	1	0	1
953		2	max	0	32	2.366	8	0	32	0	23	0	32	-9.918	32
954			min	0	1	0.793	21	0	1	0	5	0	1	-29.568	4
955		3	max	0	32	0	32	0	32	0	23	0	32	-13.223	32
956			min	0	1	0	1	0	1	0	5	0	1	-39.424	4
957		4	max	0	32	-0.793	32	0	32	0	23	0	32	-9.918	32
958			min	0	1	-2.366	4	0	1	0	5	0	1	-29.568	4
959		5	max	0	32	-1.587	32	0	32	0	23	0	32	0	32
960			min	0	1	-4.731	4	0	1	0	5	0	1	0	1
961	F1_J87	1	max	0	32	4.731	8	0	32	0	23	0	32	0	32
962			min	0	1	1.587	21	0	1	0	5	0	1	0	1
963		2	max	0	32	2.366	8	0	32	0	23	0	32	-9.918	32
964			min	0	1	0.793	21	0	1	0	5	0	1	-29.568	4
965		3	max	0	32	0	32	0	32	0	23	0	32	-13.223	32
966			min	0	1	0	1	0	1	0	5	0	1	-39.424	4
967		4	max	0	32	-0.793	32	0	32	0	23	0	32	-9.918	32
968			min	0	1	-2.366	4	0	1	0	5	0	1	-29.568	4
969		5	max	0	32	-1.587	32	0	32	0	23	0	32	0	32
970			min	0	1	-4.731	4	0	1	0	5	0	1	0	1
971	F1_J88	1	max	0	32	4.731	8	0	32	0	23	0	32	0	32
972			min	0	1	1.587	21	0	1	0	5	0	1	0	1
973		2	max	0	32	2.366	8	0	32	0	23	0	32	-9.918	32
974			min	0	1	0.793	21	0	1	0	5	0	1	-29.568	4
975		3	max	0	32	0	32	0	32	0	23	0	32	-13.223	32
976			min	0	1	0	1	0	1	0	5	0	1	-39.424	4
977		4	max	0	32	-0.793	32	0	32	0	23	0	32	-9.918	32
978			min	0	1	-2.366	4	0	1	0	5	0	1	-29.568	4
979		5	max	0	32	-1.587	32	0	32	0	23	0	32	0	32
980			min	0	1	-4.731	4	0	1	0	5	0	1	0	1
981	F1_J89	1	max	0	32	4.731	8	0	32	0	23	0	32	0	32
982			min	0	1	1.587	21	0	1	0	5	0	1	0	1
983		2	max	0	32	2.366	8	0	32	0	23	0	32	-9.918	32
984			min	0	1	0.793	21	0	1	0	5	0	1	-29.568	4
985		3	max	0	32	0	32	0	32	0	23	0	32	-13.223	32
986			min	0	1	0	1	0	1	0	5	0	1	-39.424	4

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
987		4	max	0	32	-0.793	32	0	32	0	23	0	32	-9.918	32
988			min	0	1	-2.366	4	0	1	0	5	0	1	-29.568	4
989		5	max	0	32	-1.587	32	0	32	0	23	0	32	0	32
990			min	0	1	-4.731	4	0	1	0	5	0	1	0	1
991	F1_J90	1	max	0	32	4.816	8	0	32	0	7	0	32	0	32
992			min	0	1	1.612	21	0	1	0	21	0	1	0	1
993		2	max	0	32	2.408	8	0	32	0	7	0	32	-10.076	32
994			min	0	1	0.806	21	0	1	0	21	0	1	-30.099	4
995		3	max	0	32	0	32	0	32	0	7	0	32	-13.435	32
996			min	0	1	0	1	0	1	0	21	0	1	-40.131	4
997		4	max	0	32	-0.806	32	0	32	0	7	0	32	-10.076	32
998			min	0	1	-2.408	4	0	1	0	21	0	1	-30.099	4
999		5	max	0	32	-1.612	32	0	32	0	7	0	32	0	32
1000			min	0	1	-4.816	4	0	1	0	21	0	1	0	1
1001	F1_J91	1	max	0	32	4.816	8	0	32	0	5	0	32	0	32
1002			min	0	1	1.612	21	0	1	0	19	0	1	0	1
1003		2	max	0	32	2.408	8	0	32	0	5	0	32	-10.076	32
1004			min	0	1	0.806	21	0	1	0	19	0	1	-30.099	4
1005		3	max	0	32	0	32	0	32	0	5	0	32	-13.435	32
1006			min	0	1	0	1	0	1	0	19	0	1	-40.131	4
1007		4	max	0	32	-0.806	32	0	32	0	5	0	32	-10.076	32
1008			min	0	1	-2.408	4	0	1	0	19	0	1	-30.099	4
1009		5	max	0	32	-1.612	32	0	32	0	5	0	32	0	32
1010			min	0	1	-4.816	4	0	1	0	19	0	1	0	1
1011	F1_J92	1	max	0	32	4.816	8	0	32	0	5	0	32	0	32
1012			min	0	1	1.612	21	0	1	0	23	0	1	0	1
1013		2	max	0	32	2.408	8	0	32	0	5	0	32	-10.076	32
1014			min	0	1	0.806	21	0	1	0	23	0	1	-30.099	4
1015		3	max	0	32	0	32	0	32	0	5	0	32	-13.435	32
1016			min	0	1	0	1	0	1	0	23	0	1	-40.131	4
1017		4	max	0	32	-0.806	32	0	32	0	5	0	32	-10.076	32
1018			min	0	1	-2.408	4	0	1	0	23	0	1	-30.099	4
1019		5	max	0	32	-1.612	32	0	32	0	5	0	32	0	32
1020			min	0	1	-4.816	4	0	1	0	23	0	1	0	1
1021	F1_J93	1	max	0	32	4.816	8	0	32	0	5	0	32	0	32
1022			min	0	1	1.612	21	0	1	0	23	0	1	0	1
1023		2	max	0	32	2.408	8	0	32	0	5	0	32	-10.076	32
1024			min	0	1	0.806	21	0	1	0	23	0	1	-30.099	4
1025		3	max	0	32	0	32	0	32	0	5	0	32	-13.435	32
1026			min	0	1	0	1	0	1	0	23	0	1	-40.131	4
1027		4	max	0	32	-0.806	32	0	32	0	5	0	32	-10.076	32
1028			min	0	1	-2.408	4	0	1	0	23	0	1	-30.099	4
1029		5	max	0	32	-1.612	32	0	32	0	5	0	32	0	32
1030			min	0	1	-4.816	4	0	1	0	23	0	1	0	1
1031	F1_J94	1	max	0	32	4.816	8	0	32	0	5	0	32	0	32
1032			min	0	1	1.612	21	0	1	0	23	0	1	0	1
1033		2	max	0	32	2.408	8	0	32	0	5	0	32	-10.076	32
1034			min	0	1	0.806	21	0	1	0	23	0	1	-30.099	4
1035		3	max	0	32	0	32	0	32	0	5	0	32	-13.435	32
1036			min	0	1	0	1	0	1	0	23	0	1	-40.131	4
1037		4	max	0	32	-0.806	32	0	32	0	5	0	32	-10.076	32
1038			min	0	1	-2.408	4	0	1	0	23	0	1	-30.099	4
1039		5	max	0	32	-1.612	32	0	32	0	5	0	32	0	32
1040			min	0	1	-4.816	4	0	1	0	23	0	1	0	1
1041	F1_J95	1	max	0	32	4.816	8	0	32	0	23	0	32	0	32
1042			min	0	1	1.612	21	0	1	0	5	0	1	0	1
1043		2	max	0	32	2.408	8	0	32	0	23	0	32	-10.076	32
1044			min	0	1	0.806	21	0	1	0	5	0	1	-30.099	4

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
1045		3	max	0	32	0	32	0	32	0	23	0	32	-13.435	32
1046			min	0	1	0	1	0	1	0	5	0	1	-40.131	4
1047		4	max	0	32	-0.806	32	0	32	0	23	0	32	-10.076	32
1048			min	0	1	-2.408	4	0	1	0	5	0	1	-30.099	4
1049		5	max	0	32	-1.612	32	0	32	0	23	0	32	0	32
1050			min	0	1	-4.816	4	0	1	0	5	0	1	0	1
1051	F1_J96	1	max	0	32	4.816	8	0	32	0	21	0	32	0	32
1052			min	0	1	1.612	21	0	1	0	7	0	1	0	1
1053		2	max	0	32	2.408	8	0	32	0	21	0	32	-10.076	32
1054			min	0	1	0.806	21	0	1	0	7	0	1	-30.099	4
1055		3	max	0	32	0	32	0	32	0	21	0	32	-13.435	32
1056			min	0	1	0	1	0	1	0	7	0	1	-40.131	4
1057		4	max	0	32	-0.806	32	0	32	0	21	0	32	-10.076	32
1058			min	0	1	-2.408	4	0	1	0	7	0	1	-30.099	4
1059		5	max	0	32	-1.612	32	0	32	0	21	0	32	0	32
1060			min	0	1	-4.816	4	0	1	0	7	0	1	0	1
1061	F1_J97	1	max	0	32	4.816	8	0	32	0	21	0	32	0	32
1062			min	0	1	1.612	21	0	1	0	7	0	1	0	1
1063		2	max	0	32	2.408	8	0	32	0	21	0	32	-10.076	32
1064			min	0	1	0.806	21	0	1	0	7	0	1	-30.099	4
1065		3	max	0	32	0	32	0	32	0	21	0	32	-13.435	32
1066			min	0	1	0	1	0	1	0	7	0	1	-40.131	4
1067		4	max	0	32	-0.806	32	0	32	0	21	0	32	-10.076	32
1068			min	0	1	-2.408	4	0	1	0	7	0	1	-30.099	4
1069		5	max	0	32	-1.612	32	0	32	0	21	0	32	0	32
1070			min	0	1	-4.816	4	0	1	0	7	0	1	0	1
1071	F1_J98	1	max	0	32	4.816	8	0	32	0	21	0	32	0	32
1072			min	0	1	1.612	21	0	1	0	7	0	1	0	1
1073		2	max	0	32	2.408	8	0	32	0	21	0	32	-10.076	32
1074			min	0	1	0.806	21	0	1	0	7	0	1	-30.099	4
1075		3	max	0	32	0	32	0	32	0	21	0	32	-13.435	32
1076			min	0	1	0	1	0	1	0	7	0	1	-40.131	4
1077		4	max	0	32	-0.806	32	0	32	0	21	0	32	-10.076	32
1078			min	0	1	-2.408	4	0	1	0	7	0	1	-30.099	4
1079		5	max	0	32	-1.612	32	0	32	0	21	0	32	0	32
1080			min	0	1	-4.816	4	0	1	0	7	0	1	0	1
1081	F1_J99	1	max	0	32	4.816	8	0	32	0	32	0	32	0	32
1082			min	0	1	1.612	21	0	1	0	1	0	1	0	1
1083		2	max	0	32	2.408	8	0	32	0	32	0	32	-10.076	32
1084			min	0	1	0.806	21	0	1	0	1	0	1	-30.099	4
1085		3	max	0	32	0	32	0	32	0	32	0	32	-13.435	32
1086			min	0	1	0	1	0	1	0	1	0	1	-40.131	4
1087		4	max	0	32	-0.806	32	0	32	0	32	0	32	-10.076	32
1088			min	0	1	-2.408	4	0	1	0	1	0	1	-30.099	4
1089		5	max	0	32	-1.612	32	0	32	0	32	0	32	0	32
1090			min	0	1	-4.816	4	0	1	0	1	0	1	0	1
1091	F1_J100	1	max	0	32	4.816	8	0	32	0	7	0	32	0	32
1092			min	0	1	1.612	21	0	1	0	21	0	1	0	1
1093		2	max	0	32	2.408	8	0	32	0	7	0	32	-10.076	32
1094			min	0	1	0.806	21	0	1	0	21	0	1	-30.099	4
1095		3	max	0	32	0	32	0	32	0	7	0	32	-13.435	32
1096			min	0	1	0	1	0	1	0	21	0	1	-40.131	4
1097		4	max	0	32	-0.806	32	0	32	0	7	0	32	-10.076	32
1098			min	0	1	-2.408	4	0	1	0	21	0	1	-30.099	4
1099		5	max	0	32	-1.612	32	0	32	0	7	0	32	0	32
1100			min	0	1	-4.816	4	0	1	0	21	0	1	0	1
1101	F1_J101	1	max	0	32	4.816	8	0	32	0	7	0	32	0	32
1102			min	0	1	1.612	21	0	1	0	21	0	1	0	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
1103		2	max	0	32	2.408	8	0	32	0	7	0	32	-10.076	32
1104			min	0	1	0.806	21	0	1	0	21	0	1	-30.099	4
1105		3	max	0	32	0	32	0	32	0	7	0	32	-13.435	32
1106			min	0	1	0	1	0	1	0	21	0	1	-40.131	4
1107		4	max	0	32	-0.806	32	0	32	0	7	0	32	-10.076	32
1108			min	0	1	-2.408	4	0	1	0	21	0	1	-30.099	4
1109		5	max	0	32	-1.612	32	0	32	0	7	0	32	0	32
1110			min	0	1	-4.816	4	0	1	0	21	0	1	0	1
1111	F1_J102	1	max	0	32	4.816	8	0	32	0	23	0	32	0	32
1112			min	0	1	1.612	21	0	1	0	13	0	1	0	1
1113		2	max	0	32	2.408	8	0	32	0	23	0	32	-10.076	32
1114			min	0	1	0.806	21	0	1	0	13	0	1	-30.099	4
1115		3	max	0	32	0	32	0	32	0	23	0	32	-13.435	32
1116			min	0	1	0	1	0	1	0	13	0	1	-40.131	4
1117		4	max	0	32	-0.806	32	0	32	0	23	0	32	-10.076	32
1118			min	0	1	-2.408	4	0	1	0	13	0	1	-30.099	4
1119		5	max	0	32	-1.612	32	0	32	0	23	0	32	0	32
1120			min	0	1	-4.816	4	0	1	0	13	0	1	0	1
1121	F1_J103	1	max	0	32	4.816	8	0	32	0	13	0	32	0	32
1122			min	0	1	1.612	21	0	1	0	23	0	1	0	1
1123		2	max	0	32	2.408	8	0	32	0	13	0	32	-10.076	32
1124			min	0	1	0.806	21	0	1	0	23	0	1	-30.099	4
1125		3	max	0	32	0	32	0	32	0	13	0	32	-13.435	32
1126			min	0	1	0	1	0	1	0	23	0	1	-40.131	4
1127		4	max	0	32	-0.806	32	0	32	0	13	0	32	-10.076	32
1128			min	0	1	-2.408	4	0	1	0	23	0	1	-30.099	4
1129		5	max	0	32	-1.612	32	0	32	0	13	0	32	0	32
1130			min	0	1	-4.816	4	0	1	0	23	0	1	0	1
1131	F1_J104	1	max	0	32	4.816	8	0	32	0	13	0	32	0	32
1132			min	0	1	1.612	21	0	1	0	23	0	1	0	1
1133		2	max	0	32	2.408	8	0	32	0	13	0	32	-10.076	32
1134			min	0	1	0.806	21	0	1	0	23	0	1	-30.099	4
1135		3	max	0	32	0	32	0	32	0	13	0	32	-13.435	32
1136			min	0	1	0	1	0	1	0	23	0	1	-40.131	4
1137		4	max	0	32	-0.806	32	0	32	0	13	0	32	-10.076	32
1138			min	0	1	-2.408	4	0	1	0	23	0	1	-30.099	4
1139		5	max	0	32	-1.612	32	0	32	0	13	0	32	0	32
1140			min	0	1	-4.816	4	0	1	0	23	0	1	0	1
1141	F1_J105	1	max	0	32	4.816	8	0	32	0	13	0	32	0	32
1142			min	0	1	1.612	21	0	1	0	23	0	1	0	1
1143		2	max	0	32	2.408	8	0	32	0	13	0	32	-10.076	32
1144			min	0	1	0.806	21	0	1	0	23	0	1	-30.099	4
1145		3	max	0	32	0	32	0	32	0	13	0	32	-13.435	32
1146			min	0	1	0	1	0	1	0	23	0	1	-40.131	4
1147		4	max	0	32	-0.806	32	0	32	0	13	0	32	-10.076	32
1148			min	0	1	-2.408	4	0	1	0	23	0	1	-30.099	4
1149		5	max	0	32	-1.612	32	0	32	0	13	0	32	0	32
1150			min	0	1	-4.816	4	0	1	0	23	0	1	0	1
1151	F1_J106	1	max	0	32	4.816	8	0	32	0	13	0	32	0	32
1152			min	0	1	1.612	21	0	1	0	23	0	1	0	1
1153		2	max	0	32	2.408	8	0	32	0	13	0	32	-10.076	32
1154			min	0	1	0.806	21	0	1	0	23	0	1	-30.099	4
1155		3	max	0	32	0	32	0	32	0	13	0	32	-13.435	32
1156			min	0	1	0	1	0	1	0	23	0	1	-40.131	4
1157		4	max	0	32	-0.806	32	0	32	0	13	0	32	-10.076	32
1158			min	0	1	-2.408	4	0	1	0	23	0	1	-30.099	4
1159		5	max	0	32	-1.612	32	0	32	0	13	0	32	0	32
1160			min	0	1	-4.816	4	0	1	0	23	0	1	0	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
1161	F1_J107	1	max	0	32	4.816	8	0	32	0	21	0	32	0	32
1162			min	0	1	1.612	21	0	1	0	7	0	1	0	1
1163		2	max	0	32	2.408	8	0	32	0	21	0	32	-10.076	32
1164			min	0	1	0.806	21	0	1	0	7	0	1	-30.099	4
1165		3	max	0	32	0	32	0	32	0	21	0	32	-13.435	32
1166			min	0	1	0	1	0	1	0	7	0	1	-40.131	4
1167		4	max	0	32	-0.806	32	0	32	0	21	0	32	-10.076	32
1168			min	0	1	-2.408	4	0	1	0	7	0	1	-30.099	4
1169		5	max	0	32	-1.612	32	0	32	0	21	0	32	0	32
1170			min	0	1	-4.816	4	0	1	0	7	0	1	0	1
1171	F1_J108	1	max	0	32	4.731	8	0	32	0	23	0	32	0	32
1172			min	0	1	1.587	21	0	1	0	13	0	1	0	1
1173		2	max	0	32	2.366	8	0	32	0	23	0	32	-9.918	32
1174			min	0	1	0.793	21	0	1	0	13	0	1	-29.568	4
1175		3	max	0	32	0	32	0	32	0	23	0	32	-13.223	32
1176			min	0	1	0	1	0	1	0	13	0	1	-39.424	4
1177		4	max	0	32	-0.793	32	0	32	0	23	0	32	-9.918	32
1178			min	0	1	-2.366	4	0	1	0	13	0	1	-29.568	4
1179		5	max	0	32	-1.587	32	0	32	0	23	0	32	0	32
1180			min	0	1	-4.731	4	0	1	0	13	0	1	0	1
1181	F1_J109	1	max	0	32	4.731	8	0	32	0	23	0	32	0	32
1182			min	0	1	1.587	21	0	1	0	13	0	1	0	1
1183		2	max	0	32	2.366	8	0	32	0	23	0	32	-9.918	32
1184			min	0	1	0.793	21	0	1	0	13	0	1	-29.568	4
1185		3	max	0	32	0	32	0	32	0	23	0	32	-13.223	32
1186			min	0	1	0	1	0	1	0	13	0	1	-39.424	4
1187		4	max	0	32	-0.793	32	0	32	0	23	0	32	-9.918	32
1188			min	0	1	-2.366	4	0	1	0	13	0	1	-29.568	4
1189		5	max	0	32	-1.587	32	0	32	0	23	0	32	0	32
1190			min	0	1	-4.731	4	0	1	0	13	0	1	0	1
1191	F1_J110	1	max	0	32	4.731	8	0	32	0	23	0	32	0	32
1192			min	0	1	1.587	21	0	1	0	13	0	1	0	1
1193		2	max	0	32	2.366	8	0	32	0	23	0	32	-9.918	32
1194			min	0	1	0.793	21	0	1	0	13	0	1	-29.568	4
1195		3	max	0	32	0	32	0	32	0	23	0	32	-13.223	32
1196			min	0	1	0	1	0	1	0	13	0	1	-39.424	4
1197		4	max	0	32	-0.793	32	0	32	0	23	0	32	-9.918	32
1198			min	0	1	-2.366	4	0	1	0	13	0	1	-29.568	4
1199		5	max	0	32	-1.587	32	0	32	0	23	0	32	0	32
1200			min	0	1	-4.731	4	0	1	0	13	0	1	0	1
1201	F1_J111	1	max	0	32	4.731	8	0	32	0	23	0	32	0	32
1202			min	0	1	1.587	21	0	1	0	13	0	1	0	1
1203		2	max	0	32	2.366	8	0	32	0	23	0	32	-9.918	32
1204			min	0	1	0.793	21	0	1	0	13	0	1	-29.568	4
1205		3	max	0	32	0	32	0	32	0	23	0	32	-13.223	32
1206			min	0	1	0	1	0	1	0	13	0	1	-39.424	4
1207		4	max	0	32	-0.793	32	0	32	0	23	0	32	-9.918	32
1208			min	0	1	-2.366	4	0	1	0	13	0	1	-29.568	4
1209		5	max	0	32	-1.587	32	0	32	0	23	0	32	0	32
1210			min	0	1	-4.731	4	0	1	0	13	0	1	0	1
1211	F1_J112	1	max	0	32	4.731	8	0	32	0	23	0	32	0	32
1212			min	0	1	1.587	21	0	1	0	13	0	1	0	1
1213		2	max	0	32	2.366	8	0	32	0	23	0	32	-9.918	32
1214			min	0	1	0.793	21	0	1	0	13	0	1	-29.568	4
1215		3	max	0	32	0	32	0	32	0	23	0	32	-13.223	32
1216			min	0	1	0	1	0	1	0	13	0	1	-39.424	4
1217		4	max	0	32	-0.793	32	0	32	0	23	0	32	-9.918	32
1218			min	0	1	-2.366	4	0	1	0	13	0	1	-29.568	4

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
1219		5	max	0	32	-1.587	32	0	32	0	23	0	32	0	32
1220			min	0	1	-4.731	4	0	1	0	13	0	1	0	1
1221	F1_J113	1	max	0	32	4.731	8	0	32	0	23	0	32	0	32
1222			min	0	1	1.587	21	0	1	0	13	0	1	0	1
1223		2	max	0	32	2.366	8	0	32	0	23	0	32	-9.918	32
1224			min	0	1	0.793	21	0	1	0	13	0	1	-29.568	4
1225		3	max	0	32	0	32	0	32	0	23	0	32	-13.223	32
1226			min	0	1	0	1	0	1	0	13	0	1	-39.424	4
1227		4	max	0	32	-0.793	32	0	32	0	23	0	32	-9.918	32
1228			min	0	1	-2.366	4	0	1	0	13	0	1	-29.568	4
1229		5	max	0	32	-1.587	32	0	32	0	23	0	32	0	32
1230			min	0	1	-4.731	4	0	1	0	13	0	1	0	1
1231	F1_J114	1	max	0	32	4.66	8	0	32	-0.001	21	0	32	0	32
1232			min	0	1	1.563	21	0	1	-0.002	7	0	1	0	1
1233		2	max	0	32	2.33	8	0	32	-0.001	21	0	32	-9.622	32
1234			min	0	1	0.782	21	0	1	-0.002	7	0	1	-28.687	4
1235		3	max	0	32	0	32	0	32	-0.001	21	0	32	-12.83	32
1236			min	0	1	0	1	0	1	-0.002	7	0	1	-38.25	4
1237		4	max	0	32	-0.782	32	0	32	-0.001	21	0	32	-9.622	32
1238			min	0	1	-2.33	4	0	1	-0.002	7	0	1	-28.687	4
1239		5	max	0	32	-1.563	32	0	32	-0.001	21	0	32	0	32
1240			min	0	1	-4.66	4	0	1	-0.002	7	0	1	0	1
1241	F1_J115	1	max	0	32	4.66	8	0	32	0	21	0	32	0	32
1242			min	0	1	1.563	21	0	1	-0.001	7	0	1	0	1
1243		2	max	0	32	2.33	8	0	32	0	21	0	32	-9.622	32
1244			min	0	1	0.782	21	0	1	-0.001	7	0	1	-28.687	4
1245		3	max	0	32	0	32	0	32	0	21	0	32	-12.83	32
1246			min	0	1	0	1	0	1	-0.001	7	0	1	-38.25	4
1247		4	max	0	32	-0.782	32	0	32	0	21	0	32	-9.622	32
1248			min	0	1	-2.33	4	0	1	-0.001	7	0	1	-28.687	4
1249		5	max	0	32	-1.563	32	0	32	0	21	0	32	0	32
1250			min	0	1	-4.66	4	0	1	-0.001	7	0	1	0	1
1251	F1_J116	1	max	0	32	4.66	8	0	32	0	21	0	32	0	32
1252			min	0	1	1.563	21	0	1	0	7	0	1	0	1
1253		2	max	0	32	2.33	8	0	32	0	21	0	32	-9.622	32
1254			min	0	1	0.782	21	0	1	0	7	0	1	-28.687	4
1255		3	max	0	32	0	32	0	32	0	21	0	32	-12.83	32
1256			min	0	1	0	1	0	1	0	7	0	1	-38.25	4
1257		4	max	0	32	-0.782	32	0	32	0	21	0	32	-9.622	32
1258			min	0	1	-2.33	4	0	1	0	7	0	1	-28.687	4
1259		5	max	0	32	-1.563	32	0	32	0	21	0	32	0	32
1260			min	0	1	-4.66	4	0	1	0	7	0	1	0	1
1261	F1_J117	1	max	0	32	4.66	8	0	32	0.001	5	0	32	0	32
1262			min	0	1	1.563	21	0	1	0	23	0	1	0	1
1263		2	max	0	32	2.33	8	0	32	0.001	5	0	32	-9.622	32
1264			min	0	1	0.782	21	0	1	0	23	0	1	-28.687	4
1265		3	max	0	32	0	32	0	32	0.001	5	0	32	-12.83	32
1266			min	0	1	0	1	0	1	0	23	0	1	-38.25	4
1267		4	max	0	32	-0.782	32	0	32	0.001	5	0	32	-9.622	32
1268			min	0	1	-2.33	4	0	1	0	23	0	1	-28.687	4
1269		5	max	0	32	-1.563	32	0	32	0.001	5	0	32	0	32
1270			min	0	1	-4.66	4	0	1	0	23	0	1	0	1
1271	F1_J118	1	max	0	32	4.66	8	0	32	0.001	5	0	32	0	32
1272			min	0	1	1.563	21	0	1	0	23	0	1	0	1
1273		2	max	0	32	2.33	8	0	32	0.001	5	0	32	-9.622	32
1274			min	0	1	0.782	21	0	1	0	23	0	1	-28.687	4
1275		3	max	0	32	0	32	0	32	0.001	5	0	32	-12.83	32
1276			min	0	1	0	1	0	1	0	23	0	1	-38.25	4

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
1277		4	max	0	32	-0.782	32	0	32	0.001	5	0	32	-9.622	32
1278			min	0	1	-2.33	4	0	1	0	23	0	1	-28.687	4
1279		5	max	0	32	-1.563	32	0	32	0.001	5	0	32	0	32
1280			min	0	1	-4.66	4	0	1	0	23	0	1	0	1
1281	F1_J119	1	max	0	32	4.66	8	0	32	0.002	5	0	32	0	32
1282			min	0	1	1.563	21	0	1	0.001	23	0	1	0	1
1283		2	max	0	32	2.33	8	0	32	0.002	5	0	32	-9.622	32
1284			min	0	1	0.782	21	0	1	0.001	23	0	1	-28.687	4
1285		3	max	0	32	0	32	0	32	0.002	5	0	32	-12.83	32
1286			min	0	1	0	1	0	1	0.001	23	0	1	-38.25	4
1287		4	max	0	32	-0.782	32	0	32	0.002	5	0	32	-9.622	32
1288			min	0	1	-2.33	4	0	1	0.001	23	0	1	-28.687	4
1289		5	max	0	32	-1.563	32	0	32	0.002	5	0	32	0	32
1290			min	0	1	-4.66	4	0	1	0.001	23	0	1	0	1
1291	F1_J120	1	max	0	32	4.744	8	0	32	0.001	5	0	32	0	32
1292			min	0	1	1.588	21	0	1	0	23	0	1	0	1
1293		2	max	0	32	2.372	8	0	32	0.001	5	0	32	-9.776	32
1294			min	0	1	0.794	21	0	1	0	23	0	1	-29.202	4
1295		3	max	0	32	0	32	0	32	0.001	5	0	32	-13.035	32
1296			min	0	1	0	1	0	1	0	23	0	1	-38.936	4
1297		4	max	0	32	-0.794	32	0	32	0.001	5	0	32	-9.776	32
1298			min	0	1	-2.372	4	0	1	0	23	0	1	-29.202	4
1299		5	max	0	32	-1.588	32	0	32	0.001	5	0	32	0	32
1300			min	0	1	-4.744	4	0	1	0	23	0	1	0	1
1301	F1_J121	1	max	0	32	4.744	8	0	32	0	23	0	32	0	32
1302			min	0	1	1.588	21	0	1	-0.001	5	0	1	0	1
1303		2	max	0	32	2.372	8	0	32	0	23	0	32	-9.776	32
1304			min	0	1	0.794	21	0	1	-0.001	5	0	1	-29.202	4
1305		3	max	0	32	0	32	0	32	0	23	0	32	-13.035	32
1306			min	0	1	0	1	0	1	-0.001	5	0	1	-38.936	4
1307		4	max	0	32	-0.794	32	0	32	0	23	0	32	-9.776	32
1308			min	0	1	-2.372	4	0	1	-0.001	5	0	1	-29.202	4
1309		5	max	0	32	-1.588	32	0	32	0	23	0	32	0	32
1310			min	0	1	-4.744	4	0	1	-0.001	5	0	1	0	1
1311	F1_J122	1	max	0	32	4.744	8	0	32	0	23	0	32	0	32
1312			min	0	1	1.588	21	0	1	-0.001	5	0	1	0	1
1313		2	max	0	32	2.372	8	0	32	0	23	0	32	-9.776	32
1314			min	0	1	0.794	21	0	1	-0.001	5	0	1	-29.202	4
1315		3	max	0	32	0	32	0	32	0	23	0	32	-13.035	32
1316			min	0	1	0	1	0	1	-0.001	5	0	1	-38.936	4
1317		4	max	0	32	-0.794	32	0	32	0	23	0	32	-9.776	32
1318			min	0	1	-2.372	4	0	1	-0.001	5	0	1	-29.202	4
1319		5	max	0	32	-1.588	32	0	32	0	23	0	32	0	32
1320			min	0	1	-4.744	4	0	1	-0.001	5	0	1	0	1
1321	F1_J123	1	max	0	32	4.744	8	0	32	0	7	0	32	0	32
1322			min	0	1	1.588	21	0	1	0	21	0	1	0	1
1323		2	max	0	32	2.372	8	0	32	0	7	0	32	-9.776	32
1324			min	0	1	0.794	21	0	1	0	21	0	1	-29.202	4
1325		3	max	0	32	0	32	0	32	0	7	0	32	-13.035	32
1326			min	0	1	0	1	0	1	0	21	0	1	-38.936	4
1327		4	max	0	32	-0.794	32	0	32	0	7	0	32	-9.776	32
1328			min	0	1	-2.372	4	0	1	0	21	0	1	-29.202	4
1329		5	max	0	32	-1.588	32	0	32	0	7	0	32	0	32
1330			min	0	1	-4.744	4	0	1	0	21	0	1	0	1
1331	F1_J124	1	max	0	32	4.744	8	0	32	0.001	7	0	32	0	32
1332			min	0	1	1.588	21	0	1	0	21	0	1	0	1
1333		2	max	0	32	2.372	8	0	32	0.001	7	0	32	-9.776	32
1334			min	0	1	0.794	21	0	1	0	21	0	1	-29.202	4

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
1335		3	max	0	32	0	32	0	32	0.001	7	0	32	-13.035	32
1336			min	0	1	0	1	0	1	0	21	0	1	-38.936	4
1337		4	max	0	32	-0.794	32	0	32	0.001	7	0	32	-9.776	32
1338			min	0	1	-2.372	4	0	1	0	21	0	1	-29.202	4
1339		5	max	0	32	-1.588	32	0	32	0.001	7	0	32	0	32
1340			min	0	1	-4.744	4	0	1	0	21	0	1	0	1
1341	F1_J125	1	max	0	32	4.744	8	0	32	0	23	0	32	0	32
1342			min	0	1	1.588	21	0	1	-0.001	5	0	1	0	1
1343		2	max	0	32	2.372	8	0	32	0	23	0	32	-9.776	32
1344			min	0	1	0.794	21	0	1	-0.001	5	0	1	-29.202	4
1345		3	max	0	32	0	32	0	32	0	23	0	32	-13.035	32
1346			min	0	1	0	1	0	1	-0.001	5	0	1	-38.936	4
1347		4	max	0	32	-0.794	32	0	32	0	23	0	32	-9.776	32
1348			min	0	1	-2.372	4	0	1	-0.001	5	0	1	-29.202	4
1349		5	max	0	32	-1.588	32	0	32	0	23	0	32	0	32
1350			min	0	1	-4.744	4	0	1	-0.001	5	0	1	0	1
1351	F1_J126	1	max	0	32	4.744	8	0	32	-0.001	23	0	32	0	32
1352			min	0	1	1.588	21	0	1	-0.002	5	0	1	0	1
1353		2	max	0	32	2.372	8	0	32	-0.001	23	0	32	-9.776	32
1354			min	0	1	0.794	21	0	1	-0.002	5	0	1	-29.202	4
1355		3	max	0	32	0	32	0	32	-0.001	23	0	32	-13.035	32
1356			min	0	1	0	1	0	1	-0.002	5	0	1	-38.936	4
1357		4	max	0	32	-0.794	32	0	32	-0.001	23	0	32	-9.776	32
1358			min	0	1	-2.372	4	0	1	-0.002	5	0	1	-29.202	4
1359		5	max	0	32	-1.588	32	0	32	-0.001	23	0	32	0	32
1360			min	0	1	-4.744	4	0	1	-0.002	5	0	1	0	1
1361	F1_J127	1	max	0	32	4.744	8	0	32	0	23	0	32	0	32
1362			min	0	1	1.588	21	0	1	-0.001	5	0	1	0	1
1363		2	max	0	32	2.372	8	0	32	0	23	0	32	-9.776	32
1364			min	0	1	0.794	21	0	1	-0.001	5	0	1	-29.202	4
1365		3	max	0	32	0	32	0	32	0	23	0	32	-13.035	32
1366			min	0	1	0	1	0	1	-0.001	5	0	1	-38.936	4
1367		4	max	0	32	-0.794	32	0	32	0	23	0	32	-9.776	32
1368			min	0	1	-2.372	4	0	1	-0.001	5	0	1	-29.202	4
1369		5	max	0	32	-1.588	32	0	32	0	23	0	32	0	32
1370			min	0	1	-4.744	4	0	1	-0.001	5	0	1	0	1
1371	F1_J128	1	max	0	32	4.744	8	0	32	0	23	0	32	0	32
1372			min	0	1	1.588	21	0	1	0	5	0	1	0	1
1373		2	max	0	32	2.372	8	0	32	0	23	0	32	-9.776	32
1374			min	0	1	0.794	21	0	1	0	5	0	1	-29.202	4
1375		3	max	0	32	0	32	0	32	0	23	0	32	-13.035	32
1376			min	0	1	0	1	0	1	0	5	0	1	-38.936	4
1377		4	max	0	32	-0.794	32	0	32	0	23	0	32	-9.776	32
1378			min	0	1	-2.372	4	0	1	0	5	0	1	-29.202	4
1379		5	max	0	32	-1.588	32	0	32	0	23	0	32	0	32
1380			min	0	1	-4.744	4	0	1	0	5	0	1	0	1
1381	F1_J129	1	max	0	32	4.744	8	0	32	0	7	0	32	0	32
1382			min	0	1	1.588	21	0	1	0	21	0	1	0	1
1383		2	max	0	32	2.372	8	0	32	0	7	0	32	-9.776	32
1384			min	0	1	0.794	21	0	1	0	21	0	1	-29.202	4
1385		3	max	0	32	0	32	0	32	0	7	0	32	-13.035	32
1386			min	0	1	0	1	0	1	0	21	0	1	-38.936	4
1387		4	max	0	32	-0.794	32	0	32	0	7	0	32	-9.776	32
1388			min	0	1	-2.372	4	0	1	0	21	0	1	-29.202	4
1389		5	max	0	32	-1.588	32	0	32	0	7	0	32	0	32
1390			min	0	1	-4.744	4	0	1	0	21	0	1	0	1
1391	F1_J130	1	max	0	32	4.744	8	0	32	0.001	5	0	32	0	32
1392			min	0	1	1.588	21	0	1	0	23	0	1	0	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
1393		2	max	0	32	2.372	8	0	32	0.001	5	0	32	-9.776	32
1394			min	0	1	0.794	21	0	1	0	23	0	1	-29.202	4
1395		3	max	0	32	0	32	0	32	0.001	5	0	32	-13.035	32
1396			min	0	1	0	1	0	1	0	23	0	1	-38.936	4
1397		4	max	0	32	-0.794	32	0	32	0.001	5	0	32	-9.776	32
1398			min	0	1	-2.372	4	0	1	0	23	0	1	-29.202	4
1399		5	max	0	32	-1.588	32	0	32	0.001	5	0	32	0	32
1400			min	0	1	-4.744	4	0	1	0	23	0	1	0	1
1401	F1_J131	1	max	0	32	4.744	8	0	32	0.002	5	0	32	0	32
1402			min	0	1	1.588	21	0	1	0.001	23	0	1	0	1
1403		2	max	0	32	2.372	8	0	32	0.002	5	0	32	-9.776	32
1404			min	0	1	0.794	21	0	1	0.001	23	0	1	-29.202	4
1405		3	max	0	32	0	32	0	32	0.002	5	0	32	-13.035	32
1406			min	0	1	0	1	0	1	0.001	23	0	1	-38.936	4
1407		4	max	0	32	-0.794	32	0	32	0.002	5	0	32	-9.776	32
1408			min	0	1	-2.372	4	0	1	0.001	23	0	1	-29.202	4
1409		5	max	0	32	-1.588	32	0	32	0.002	5	0	32	0	32
1410			min	0	1	-4.744	4	0	1	0.001	23	0	1	0	1
1411	F1_J132	1	max	0	32	4.744	8	0	32	0.002	5	0	32	0	32
1412			min	0	1	1.588	21	0	1	0.001	23	0	1	0	1
1413		2	max	0	32	2.372	8	0	32	0.002	5	0	32	-9.776	32
1414			min	0	1	0.794	21	0	1	0.001	23	0	1	-29.202	4
1415		3	max	0	32	0	32	0	32	0.002	5	0	32	-13.035	32
1416			min	0	1	0	1	0	1	0.001	23	0	1	-38.936	4
1417		4	max	0	32	-0.794	32	0	32	0.002	5	0	32	-9.776	32
1418			min	0	1	-2.372	4	0	1	0.001	23	0	1	-29.202	4
1419		5	max	0	32	-1.588	32	0	32	0.002	5	0	32	0	32
1420			min	0	1	-4.744	4	0	1	0.001	23	0	1	0	1
1421	F1_J133	1	max	0	32	4.744	8	0	32	-0.001	21	0	32	0	32
1422			min	0	1	1.588	21	0	1	-0.003	4	0	1	0	1
1423		2	max	0	32	2.372	8	0	32	-0.001	21	0	32	-9.776	32
1424			min	0	1	0.794	21	0	1	-0.003	4	0	1	-29.202	4
1425		3	max	0	32	0	32	0	32	-0.001	21	0	32	-13.035	32
1426			min	0	1	0	1	0	1	-0.003	4	0	1	-38.936	4
1427		4	max	0	32	-0.794	32	0	32	-0.001	21	0	32	-9.776	32
1428			min	0	1	-2.372	4	0	1	-0.003	4	0	1	-29.202	4
1429		5	max	0	32	-1.588	32	0	32	-0.001	21	0	32	0	32
1430			min	0	1	-4.744	4	0	1	-0.003	4	0	1	0	1
1431	F1_J134	1	max	0	32	4.744	8	0	32	-0.001	21	0	32	0	32
1432			min	0	1	1.588	21	0	1	-0.002	4	0	1	0	1
1433		2	max	0	32	2.372	8	0	32	-0.001	21	0	32	-9.776	32
1434			min	0	1	0.794	21	0	1	-0.002	4	0	1	-29.202	4
1435		3	max	0	32	0	32	0	32	-0.001	21	0	32	-13.035	32
1436			min	0	1	0	1	0	1	-0.002	4	0	1	-38.936	4
1437		4	max	0	32	-0.794	32	0	32	-0.001	21	0	32	-9.776	32
1438			min	0	1	-2.372	4	0	1	-0.002	4	0	1	-29.202	4
1439		5	max	0	32	-1.588	32	0	32	-0.001	21	0	32	0	32
1440			min	0	1	-4.744	4	0	1	-0.002	4	0	1	0	1
1441	F1_J135	1	max	0	32	4.744	8	0	32	0.003	7	0	32	0	32
1442			min	0	1	1.588	21	0	1	0.001	21	0	1	0	1
1443		2	max	0	32	2.372	8	0	32	0.003	7	0	32	-9.776	32
1444			min	0	1	0.794	21	0	1	0.001	21	0	1	-29.202	4
1445		3	max	0	32	0	32	0	32	0.003	7	0	32	-13.035	32
1446			min	0	1	0	1	0	1	0.001	21	0	1	-38.936	4
1447		4	max	0	32	-0.794	32	0	32	0.003	7	0	32	-9.776	32
1448			min	0	1	-2.372	4	0	1	0.001	21	0	1	-29.202	4
1449		5	max	0	32	-1.588	32	0	32	0.003	7	0	32	0	32
1450			min	0	1	-4.744	4	0	1	0.001	21	0	1	0	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
1451	F1_J136	1	max	0	32	4.744	8	0	32	0.004	7	0	32	0	32
1452			min	0	1	1.588	21	0	1	0.001	21	0	1	0	1
1453		2	max	0	32	2.372	8	0	32	0.004	7	0	32	-9.776	32
1454			min	0	1	0.794	21	0	1	0.001	21	0	1	-29.202	4
1455		3	max	0	32	0	32	0	32	0.004	7	0	32	-13.035	32
1456			min	0	1	0	1	0	1	0.001	21	0	1	-38.936	4
1457		4	max	0	32	-0.794	32	0	32	0.004	7	0	32	-9.776	32
1458			min	0	1	-2.372	4	0	1	0.001	21	0	1	-29.202	4
1459		5	max	0	32	-1.588	32	0	32	0.004	7	0	32	0	32
1460			min	0	1	-4.744	4	0	1	0.001	21	0	1	0	1
1461	F1_J137	1	max	0	32	4.744	8	0	32	-0.001	23	0	32	0	32
1462			min	0	1	1.588	21	0	1	-0.003	5	0	1	0	1
1463		2	max	0	32	2.372	8	0	32	-0.001	23	0	32	-9.776	32
1464			min	0	1	0.794	21	0	1	-0.003	5	0	1	-29.202	4
1465		3	max	0	32	0	32	0	32	-0.001	23	0	32	-13.035	32
1466			min	0	1	0	1	0	1	-0.003	5	0	1	-38.936	4
1467		4	max	0	32	-0.794	32	0	32	-0.001	23	0	32	-9.776	32
1468			min	0	1	-2.372	4	0	1	-0.003	5	0	1	-29.202	4
1469		5	max	0	32	-1.588	32	0	32	-0.001	23	0	32	0	32
1470			min	0	1	-4.744	4	0	1	-0.003	5	0	1	0	1
1471	F1_J138	1	max	0	32	4.66	8	0	32	0.003	7	0	32	0	32
1472			min	0	1	1.563	21	0	1	0	21	0	1	0	1
1473		2	max	0	32	2.33	8	0	32	0.003	7	0	32	-9.622	32
1474			min	0	1	0.782	21	0	1	0	21	0	1	-28.687	4
1475		3	max	0	32	0	32	0	32	0.003	7	0	32	-12.83	32
1476			min	0	1	0	1	0	1	0	21	0	1	-38.25	4
1477		4	max	0	32	-0.782	32	0	32	0.003	7	0	32	-9.622	32
1478			min	0	1	-2.33	4	0	1	0	21	0	1	-28.687	4
1479		5	max	0	32	-1.563	32	0	32	0.003	7	0	32	0	32
1480			min	0	1	-4.66	4	0	1	0	21	0	1	0	1
1481	F1_J139	1	max	0	32	4.66	8	0	32	0.002	7	0	32	0	32
1482			min	0	1	1.563	21	0	1	0	21	0	1	0	1
1483		2	max	0	32	2.33	8	0	32	0.002	7	0	32	-9.622	32
1484			min	0	1	0.782	21	0	1	0	21	0	1	-28.687	4
1485		3	max	0	32	0	32	0	32	0.002	7	0	32	-12.83	32
1486			min	0	1	0	1	0	1	0	21	0	1	-38.25	4
1487		4	max	0	32	-0.782	32	0	32	0.002	7	0	32	-9.622	32
1488			min	0	1	-2.33	4	0	1	0	21	0	1	-28.687	4
1489		5	max	0	32	-1.563	32	0	32	0.002	7	0	32	0	32
1490			min	0	1	-4.66	4	0	1	0	21	0	1	0	1
1491	F1_J140	1	max	0	32	4.66	8	0	32	0.002	7	0	32	0	32
1492			min	0	1	1.563	21	0	1	0	21	0	1	0	1
1493		2	max	0	32	2.33	8	0	32	0.002	7	0	32	-9.622	32
1494			min	0	1	0.782	21	0	1	0	21	0	1	-28.687	4
1495		3	max	0	32	0	32	0	32	0.002	7	0	32	-12.83	32
1496			min	0	1	0	1	0	1	0	21	0	1	-38.25	4
1497		4	max	0	32	-0.782	32	0	32	0.002	7	0	32	-9.622	32
1498			min	0	1	-2.33	4	0	1	0	21	0	1	-28.687	4
1499		5	max	0	32	-1.563	32	0	32	0.002	7	0	32	0	32
1500			min	0	1	-4.66	4	0	1	0	21	0	1	0	1
1501	F1_J141	1	max	0	32	4.66	8	0	32	0.001	7	0	32	0	32
1502			min	0	1	1.563	21	0	1	0	21	0	1	0	1
1503		2	max	0	32	2.33	8	0	32	0.001	7	0	32	-9.622	32
1504			min	0	1	0.782	21	0	1	0	21	0	1	-28.687	4
1505		3	max	0	32	0	32	0	32	0.001	7	0	32	-12.83	32
1506			min	0	1	0	1	0	1	0	21	0	1	-38.25	4
1507		4	max	0	32	-0.782	32	0	32	0.001	7	0	32	-9.622	32
1508			min	0	1	-2.33	4	0	1	0	21	0	1	-28.687	4

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
1509		5	max	0	32	-1.563	32	0	32	0.001	7	0	32	0	32
1510			min	0	1	-4.66	4	0	1	0	21	0	1	0	1
1511	F1_J142	1	max	0	13	4.66	8	0	32	0.002	5	0	32	0	32
1512			min	0	19	1.563	21	0	1	0.001	23	0	1	0	1
1513		2	max	0	13	2.33	8	0	32	0.002	5	0	32	-9.622	32
1514			min	0	19	0.782	21	0	1	0.001	23	0	1	-28.687	4
1515		3	max	0	13	0	32	0	32	0.002	5	0	32	-12.83	32
1516			min	0	19	0	1	0	1	0.001	23	0	1	-38.25	4
1517		4	max	0	13	-0.782	32	0	32	0.002	5	0	32	-9.622	32
1518			min	0	19	-2.33	4	0	1	0.001	23	0	1	-28.687	4
1519		5	max	0	13	-1.563	32	0	32	0.002	5	0	32	0	32
1520			min	0	19	-4.66	4	0	1	0.001	23	0	1	0	1
1521	F1_J143	1	max	0	32	4.66	8	0	32	0.002	5	0	32	0	32
1522			min	0	1	1.563	21	0	1	0.001	23	0	1	0	1
1523		2	max	0	32	2.33	8	0	32	0.002	5	0	32	-9.622	32
1524			min	0	1	0.782	21	0	1	0.001	23	0	1	-28.687	4
1525		3	max	0	32	0	32	0	32	0.002	5	0	32	-12.83	32
1526			min	0	1	0	1	0	1	0.001	23	0	1	-38.25	4
1527		4	max	0	32	-0.782	32	0	32	0.002	5	0	32	-9.622	32
1528			min	0	1	-2.33	4	0	1	0.001	23	0	1	-28.687	4
1529		5	max	0	32	-1.563	32	0	32	0.002	5	0	32	0	32
1530			min	0	1	-4.66	4	0	1	0.001	23	0	1	0	1
1531	F1_J148	1	max	0	32	6.191	8	0	32	-0.003	21	0	32	0	32
1532			min	0	1	0.727	21	0	1	-0.01	7	0	1	0	1
1533		2	max	0	32	3.125	8	0	32	-0.003	21	0	32	-1.551	32
1534			min	0	1	0.385	21	0	1	-0.01	7	0	1	-12.722	4
1535		3	max	0	32	0.003	1	0	32	-0.003	21	0	32	-2.078	32
1536			min	0	1	0.002	21	0	1	-0.01	7	0	1	-16.975	4
1537		4	max	0	32	-0.382	23	0	32	-0.003	21	0	32	-1.561	32
1538			min	0	1	-3.12	4	0	1	-0.01	7	0	1	-12.735	4
1539		5	max	0	32	-0.766	23	0	32	-0.003	21	0	32	0	32
1540			min	0	1	-6.243	4	0	1	-0.01	7	0	1	0	1
1541	F1_J149	1	max	0	32	6.977	8	0	32	-0.002	21	0	32	0	32
1542			min	0	1	0.823	23	0	1	-0.011	7	0	1	0	1
1543		2	max	0	32	3.518	8	0	32	-0.002	21	0	32	-1.97	23
1544			min	0	1	0.434	23	0	1	-0.011	7	0	1	-16.132	4
1545		3	max	0	32	0.002	1	0	32	-0.002	21	0	32	-2.636	23
1546			min	0	1	0.002	23	0	1	-0.011	7	0	1	-21.523	4
1547		4	max	0	32	-0.43	32	0	32	-0.002	21	0	32	-1.98	23
1548			min	0	1	-3.514	4	0	1	-0.011	7	0	1	-16.145	4
1549		5	max	0	32	-0.862	32	0	32	-0.002	21	0	32	0	32
1550			min	0	1	-7.03	4	0	1	-0.011	7	0	1	0	1
1551	F1_J150	1	max	0	32	7.993	8	0	32	0.01	7	0	32	0	32
1552			min	0	1	0.743	23	0	1	0.002	21	0	1	0	1
1553		2	max	0	32	4.011	8	0	32	0.01	7	0	32	-2.083	32
1554			min	0	1	0.382	23	0	1	0.002	21	0	1	-21.933	4
1555		3	max	0	32	0.001	1	0	32	0.01	7	0	32	-2.781	32
1556			min	0	1	0	23	0	1	0.002	21	0	1	-29.248	4
1557		4	max	0	32	-0.381	32	0	32	0.01	7	0	32	-2.086	23
1558			min	0	1	-4.01	4	0	1	0.002	21	0	1	-21.937	4
1559		5	max	0	32	-0.763	32	0	32	0.01	7	0	32	0	32
1560			min	0	1	-8.02	4	0	1	0.002	21	0	1	0	1
1561	F1_J151	1	max	0	32	10.549	8	0	32	0.006	7	0	32	0	32
1562			min	0	1	1.264	21	0	1	0.001	21	0	1	0	1
1563		2	max	0	32	5.304	8	0	32	0.006	7	0	32	-4.505	32
1564			min	0	1	0.654	21	0	1	0.001	21	0	1	-36.7	4
1565		3	max	0	32	0.002	1	0	32	0.006	7	0	32	-6.017	32
1566			min	0	1	0.001	21	0	1	0.001	21	0	1	-48.946	4

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
1567		4	max	0	32	-0.652	32	0	32	0.006	7	0	32	-4.515	32
1568			min	0	1	-5.301	4	0	1	0.001	21	0	1	-36.713	4
1569		5	max	0	32	-1.304	32	0	32	0.006	7	0	32	0	32
1570			min	0	1	-10.603	4	0	1	0.001	21	0	1	0	1
1571	F1_J152	1	max	0	32	11.094	8	0	32	0.005	5	0	32	0	32
1572			min	0	1	1.177	21	0	1	0.001	22	0	1	0	1
1573		2	max	0	32	5.615	8	0	32	0.005	5	0	32	-4.604	32
1574			min	0	1	0.639	21	0	1	0.001	22	0	1	-41.579	4
1575		3	max	0	32	0.037	1	0	32	0.005	5	0	32	-6.263	32
1576			min	0	1	0.024	21	0	1	0.001	22	0	1	-55.604	4
1577		4	max	0	32	-0.625	32	0	32	0.005	5	0	32	-4.786	32
1578			min	0	1	-5.597	4	0	1	0.001	22	0	1	-41.821	4
1579		5	max	0	32	-1.309	32	0	32	0.005	5	0	32	0	32
1580			min	0	1	-11.271	4	0	1	0.001	22	0	1	0	1
1581	F1_J153	1	max	0	32	16.614	8	0	32	-0.003	21	0	32	0	32
1582			min	0	1	3.38	21	0	1	-0.013	7	0	1	0	1
1583		2	max	0	32	8.607	8	0	32	-0.003	21	0	32	-21.73	32
1584			min	0	1	1.915	21	0	1	-0.013	7	0	1	-103.504	4
1585		3	max	0	32	0.7	1	0	32	-0.003	21	0	32	-31.436	32
1586			min	0	1	0.45	21	0	1	-0.013	7	0	1	-141.288	4
1587		4	max	0	32	-1.915	32	0	32	-0.003	21	0	32	-21.73	32
1588			min	0	1	-8.607	4	0	1	-0.013	7	0	1	-103.504	4
1589		5	max	0	32	-3.38	32	0	32	-0.003	21	0	32	0	32
1590			min	0	1	-16.614	4	0	1	-0.013	7	0	1	0	1
1591	F1_J154	1	max	0	32	14.648	8	0	32	-0.001	21	0	32	0	32
1592			min	0	1	3.071	21	0	1	-0.009	7	0	1	0	1
1593		2	max	0	32	8.11	8	0	32	-0.001	21	0	32	-20.204	32
1594			min	0	1	1.837	21	0	1	-0.009	7	0	1	-93.808	4
1595		3	max	0	32	0.971	8	0	32	-0.001	21	0	32	-29.893	32
1596			min	0	1	0.508	21	0	1	-0.009	7	0	1	-131.489	4
1597		4	max	0	32	-1.814	32	0	32	-0.001	21	0	32	-20.904	32
1598			min	0	1	-7.968	4	0	1	-0.009	7	0	1	-98.258	4
1599		5	max	0	32	-3.279	32	0	32	-0.001	21	0	32	0	32
1600			min	0	1	-15.975	4	0	1	-0.009	7	0	1	0	1
1601	F1_J155	1	max	0	32	16.858	8	0	32	0.004	5	0	32	0	32
1602			min	0	1	3.425	21	0	1	0.001	23	0	1	0	1
1603		2	max	0	32	8.729	8	0	32	0.004	5	0	32	-22.34	32
1604			min	0	1	1.937	21	0	1	0.001	23	0	1	-106.604	4
1605		3	max	0	32	0.7	1	0	32	0.004	5	0	32	-32.286	32
1606			min	0	1	0.45	21	0	1	0.001	23	0	1	-145.472	4
1607		4	max	0	32	-1.937	32	0	32	0.004	5	0	32	-22.34	32
1608			min	0	1	-8.729	4	0	1	0.001	23	0	1	-106.604	4
1609		5	max	0	32	-3.425	32	0	32	0.004	5	0	32	0	32
1610			min	0	1	-16.858	4	0	1	0.001	23	0	1	0	1
1611	F1_J156	1	max	0	32	16.858	8	0	32	0.004	5	0	32	0	32
1612			min	0	1	3.425	21	0	1	0.001	23	0	1	0	1
1613		2	max	0	32	8.729	8	0	32	0.004	5	0	32	-22.34	32
1614			min	0	1	1.937	21	0	1	0.001	23	0	1	-106.604	4
1615		3	max	0	32	0.7	1	0	32	0.004	5	0	32	-32.286	32
1616			min	0	1	0.45	21	0	1	0.001	23	0	1	-145.472	4
1617		4	max	0	32	-1.937	32	0	32	0.004	5	0	32	-22.34	32
1618			min	0	1	-8.729	4	0	1	0.001	23	0	1	-106.604	4
1619		5	max	0	32	-3.425	32	0	32	0.004	5	0	32	0	32
1620			min	0	1	-16.858	4	0	1	0.001	23	0	1	0	1
1621	F1_J157	1	max	0	32	16.614	8	0	32	-0.002	21	0	32	0	32
1622			min	0	1	3.38	21	0	1	-0.007	7	0	1	0	1
1623		2	max	0	32	8.607	8	0	32	-0.002	21	0	32	-21.73	32
1624			min	0	1	1.915	21	0	1	-0.007	7	0	1	-103.504	4

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
1625		3	max	0	32	0.7	1	0	32	-0.002	21	0	32	-31.436	32
1626			min	0	1	0.45	21	0	1	-0.007	7	0	1	-141.288	4
1627		4	max	0	32	-1.915	32	0	32	-0.002	21	0	32	-21.73	32
1628			min	0	1	-8.607	4	0	1	-0.007	7	0	1	-103.504	4
1629		5	max	0	32	-3.38	32	0	32	-0.002	21	0	32	0	32
1630			min	0	1	-16.614	4	0	1	-0.007	7	0	1	0	1
1631	F1_J158	1	max	0	32	16.614	8	0	32	-0.001	21	0	32	0	32
1632			min	0	1	3.38	21	0	1	-0.007	7	0	1	0	1
1633		2	max	0	32	8.607	8	0	32	-0.001	21	0	32	-21.73	32
1634			min	0	1	1.915	21	0	1	-0.007	7	0	1	-103.504	4
1635		3	max	0	32	0.7	1	0	32	-0.001	21	0	32	-31.436	32
1636			min	0	1	0.45	21	0	1	-0.007	7	0	1	-141.288	4
1637		4	max	0	32	-1.915	32	0	32	-0.001	21	0	32	-21.73	32
1638			min	0	1	-8.607	4	0	1	-0.007	7	0	1	-103.504	4
1639		5	max	0	32	-3.38	32	0	32	-0.001	21	0	32	0	32
1640			min	0	1	-16.614	4	0	1	-0.007	7	0	1	0	1
1641	F1_G159	1	max	0	23	2.467	8	0	32	0	5	0	32	0	32
1642			min	0	21	0.522	21	0	1	0	23	0	1	0	1
1643		2	max	0	23	1.233	8	0	32	0	5	0	32	-0.815	32
1644			min	0	21	0.261	21	0	1	0	23	0	1	-3.853	4
1645		3	max	0	23	0	32	0	32	0	5	0	32	-1.086	32
1646			min	0	21	0	1	0	1	0	23	0	1	-5.137	4
1647		4	max	0	23	-0.261	32	0	32	0	5	0	32	-0.815	32
1648			min	0	21	-1.233	4	0	1	0	23	0	1	-3.853	4
1649		5	max	0	23	-0.522	32	0	32	0	5	0	32	0	32
1650			min	0	21	-2.467	4	0	1	0	23	0	1	0	1
1651	F1_G154	1	max	0.001	21	6.63	5	0	15	0.003	7	0	32	0	32
1652			min	-0.001	15	1.355	23	0	21	0	21	0	1	0	1
1653		2	max	0.001	21	5.162	5	0	15	0.003	7	0	15	-5.006	23
1654			min	-0.001	15	0.836	23	0	21	0	21	0	21	-27.254	5
1655		3	max	0.001	21	2.871	5	0	15	0.003	7	0	15	-7.641	23
1656			min	-0.001	15	0.317	23	0	21	0	21	0	21	-45.92	5
1657		4	max	0.001	15	-0.837	21	0	13	0.003	7	0	22	-5.009	21
1658			min	-0.001	21	-4.893	7	0	22	0	21	0	13	-31.035	7
1659		5	max	0.001	15	-1.356	21	0	13	0.003	7	0	32	0	32
1660			min	-0.001	21	-8.829	7	0	22	0	21	0	1	0	1
1661	F1_G155	1	max	0.031	7	3.689	6	0	21	0	7	0	32	0	32
1662			min	-0.001	21	0.484	29	0	7	0	21	0	1	0	1
1663		2	max	0.031	7	1.844	6	0	21	0	7	0	21	-0.576	32
1664			min	-0.001	21	0.242	29	0	7	0	21	0	7	-4.385	5
1665		3	max	0.031	7	0	24	0	21	0	7	0	21	-0.768	32
1666			min	-0.001	21	0	1	0	7	0	21	0	7	-5.847	5
1667		4	max	0.002	21	-0.242	21	0	21	0	7	0	7	-0.576	21
1668			min	-0.038	7	-1.845	4	0	7	0	21	0	21	-4.385	4
1669		5	max	0.002	21	-0.484	21	0	21	0	7	0	32	0	32
1670			min	-0.038	7	-3.689	4	0	7	0	21	0	1	0	1
1671	F1_G157	1	max	0	32	4.651	8	0	32	0	23	0	32	0	32
1672			min	0	1	0.636	23	0	1	-0.001	5	0	1	0	1
1673		2	max	0	32	2.325	8	0	32	0	23	0	32	-0.944	23
1674			min	0	1	0.318	23	0	1	-0.001	5	0	1	-6.909	4
1675		3	max	0	32	0	32	0	32	0	23	0	32	-1.258	23
1676			min	0	1	0	1	0	1	-0.001	5	0	1	-9.211	4
1677		4	max	0	32	-0.318	32	0	32	0	23	0	32	-0.943	23
1678			min	0	1	-2.326	4	0	1	-0.001	5	0	1	-6.907	4
1679		5	max	0	32	-0.611	32	0	32	0	23	0	32	0	32
1680			min	0	1	-4.618	4	0	1	-0.001	5	0	1	0	1
1681	F1_G160	1	max	0	21	0.073	1	0	32	0.005	7	0	32	0	32
1682			min	0	15	0.047	21	0	1	0.001	21	0	1	0	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
1683		2	max	0	21	0.037	1	0	32	0.005	7	0	32	-0.076	32
1684			min	0	15	0.023	21	0	1	0.001	21	0	1	-0.119	1
1685		3	max	0	21	0	32	0	32	0.005	7	0	32	-0.102	32
1686			min	0	15	0	1	0	1	0.001	21	0	1	-0.158	1
1687		4	max	0	21	-0.023	32	0	32	0.005	7	0	32	-0.076	32
1688			min	0	15	-0.037	1	0	1	0.001	21	0	1	-0.119	1
1689		5	max	0	21	-0.047	32	0	32	0.005	7	0	32	0	32
1690			min	0	15	-0.073	1	0	1	0.001	21	0	1	0	1
1691	(B-2)_L1	1	max	72.782	7	0	32	0	32	0.001	19	0	32	0	32
1692			min	25.331	21	0	1	0	1	-0.002	13	0	1	0	1
1693		2	max	72.724	7	0	32	0	32	0.001	19	0	32	0	32
1694			min	25.287	21	0	1	0	1	-0.002	13	0	1	0	1
1695		3	max	72.667	7	0	32	0	32	0.001	19	0	32	0	32
1696			min	25.244	21	0	1	0	1	-0.002	13	0	1	0	1
1697		4	max	72.609	7	0	32	0	32	0.001	19	0	32	0	32
1698			min	25.201	21	0	1	0	1	-0.002	13	0	1	0	1
1699		5	max	72.551	7	0	32	0	32	0.001	19	0	32	0	32
1700			min	25.158	21	0	1	0	1	-0.002	13	0	1	0	1
1701	(B-3)_L1	1	max	68.839	5	0	32	0	32	0.001	19	0	32	0	32
1702			min	23.842	23	0	1	0	1	-0.002	13	0	1	0	1
1703		2	max	68.781	5	0	32	0	32	0.001	19	0	32	0	32
1704			min	23.799	23	0	1	0	1	-0.002	13	0	1	0	1
1705		3	max	68.723	5	0	32	0	32	0.001	19	0	32	0	32
1706			min	23.755	23	0	1	0	1	-0.002	13	0	1	0	1
1707		4	max	68.666	5	0	32	0	32	0.001	19	0	32	0	32
1708			min	23.712	23	0	1	0	1	-0.002	13	0	1	0	1
1709		5	max	68.608	5	0	32	0	32	0.001	19	0	32	0	32
1710			min	23.669	23	0	1	0	1	-0.002	13	0	1	0	1
1711	(A-2)_L1	1	max	72.782	5	0	32	0	32	0.001	19	0	32	0	32
1712			min	25.331	23	0	1	0	1	-0.002	13	0	1	0	1
1713		2	max	72.724	5	0	32	0	32	0.001	19	0	32	0	32
1714			min	25.287	23	0	1	0	1	-0.002	13	0	1	0	1
1715		3	max	72.667	5	0	32	0	32	0.001	19	0	32	0	32
1716			min	25.244	23	0	1	0	1	-0.002	13	0	1	0	1
1717		4	max	72.609	5	0	32	0	32	0.001	19	0	32	0	32
1718			min	25.201	23	0	1	0	1	-0.002	13	0	1	0	1
1719		5	max	72.551	5	0	32	0	32	0.001	19	0	32	0	32
1720			min	25.158	23	0	1	0	1	-0.002	13	0	1	0	1
1721	(A-3)_L1	1	max	68.839	5	0	32	0	32	0.001	19	0	32	0	32
1722			min	23.842	23	0	1	0	1	-0.002	13	0	1	0	1
1723		2	max	68.781	5	0	32	0	32	0.001	19	0	32	0	32
1724			min	23.799	23	0	1	0	1	-0.002	13	0	1	0	1
1725		3	max	68.723	5	0	32	0	32	0.001	19	0	32	0	32
1726			min	23.755	23	0	1	0	1	-0.002	13	0	1	0	1
1727		4	max	68.666	5	0	32	0	32	0.001	19	0	32	0	32
1728			min	23.712	23	0	1	0	1	-0.002	13	0	1	0	1
1729		5	max	68.608	5	0	32	0	32	0.001	19	0	32	0	32
1730			min	23.669	23	0	1	0	1	-0.002	13	0	1	0	1
1731	(B-4)_L1	1	max	68.839	7	0	32	0	32	0.001	19	0	32	0	32
1732			min	23.842	21	0	1	0	1	-0.002	13	0	1	0	1
1733		2	max	68.781	7	0	32	0	32	0.001	19	0	32	0	32
1734			min	23.799	21	0	1	0	1	-0.002	13	0	1	0	1
1735		3	max	68.723	7	0	32	0	32	0.001	19	0	32	0	32
1736			min	23.755	21	0	1	0	1	-0.002	13	0	1	0	1
1737		4	max	68.666	7	0	32	0	32	0.001	19	0	32	0	32
1738			min	23.712	21	0	1	0	1	-0.002	13	0	1	0	1
1739		5	max	68.608	7	0	32	0	32	0.001	19	0	32	0	32
1740			min	23.669	21	0	1	0	1	-0.002	13	0	1	0	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
1741	(A-4)_L1	1	max	68.839	7	0	32	0	32	0.001	19	0	32	0	32
1742			min	23.842	21	0	1	0	1	-0.002	13	0	1	0	1
1743		2	max	68.781	7	0	32	0	32	0.001	19	0	32	0	32
1744			min	23.799	21	0	1	0	1	-0.002	13	0	1	0	1
1745		3	max	68.724	7	0	32	0	32	0.001	19	0	32	0	32
1746			min	23.755	21	0	1	0	1	-0.002	13	0	1	0	1
1747		4	max	68.666	7	0	32	0	32	0.001	19	0	32	0	32
1748			min	23.712	21	0	1	0	1	-0.002	13	0	1	0	1
1749		5	max	68.608	7	0	32	0	32	0.001	19	0	32	0	32
1750			min	23.669	21	0	1	0	1	-0.002	13	0	1	0	1
1751	(B-5)_L1	1	max	72.782	5	0	32	0	32	0.001	19	0	32	0	32
1752			min	25.331	23	0	1	0	1	-0.002	13	0	1	0	1
1753		2	max	72.724	5	0	32	0	32	0.001	19	0	32	0	32
1754			min	25.287	23	0	1	0	1	-0.002	13	0	1	0	1
1755		3	max	72.667	5	0	32	0	32	0.001	19	0	32	0	32
1756			min	25.244	23	0	1	0	1	-0.002	13	0	1	0	1
1757		4	max	72.609	5	0	32	0	32	0.001	19	0	32	0	32
1758			min	25.201	23	0	1	0	1	-0.002	13	0	1	0	1
1759		5	max	72.551	5	0	32	0	32	0.001	19	0	32	0	32
1760			min	25.158	23	0	1	0	1	-0.002	13	0	1	0	1
1761	(A-5)_L1	1	max	72.782	5	0	32	0	32	0.001	19	0	32	0	32
1762			min	25.331	23	0	1	0	1	-0.002	13	0	1	0	1
1763		2	max	72.724	5	0	32	0	32	0.001	19	0	32	0	32
1764			min	25.287	23	0	1	0	1	-0.002	13	0	1	0	1
1765		3	max	72.666	5	0	32	0	32	0.001	19	0	32	0	32
1766			min	25.244	23	0	1	0	1	-0.002	13	0	1	0	1
1767		4	max	72.609	5	0	32	0	32	0.001	19	0	32	0	32
1768			min	25.201	23	0	1	0	1	-0.002	13	0	1	0	1
1769		5	max	72.551	5	0	32	0	32	0.001	19	0	32	0	32
1770			min	25.158	23	0	1	0	1	-0.002	13	0	1	0	1
1771	(A-6)_L1	1	max	123.222	7	-0.001	21	0.001	7	0.005	19	0	32	0	32
1772			min	30.791	21	-0.004	7	0	21	-0.005	13	0	1	0	1
1773		2	max	123.089	7	-0.001	21	0.001	7	0.005	19	0.003	7	0.015	7
1774			min	30.691	21	-0.004	7	0	21	-0.005	13	0	21	0.003	21
1775		3	max	122.956	7	-0.001	21	0.001	7	0.005	19	0.005	7	0.03	7
1776			min	30.591	21	-0.004	7	0	21	-0.005	13	-0.001	21	0.006	21
1777		4	max	122.822	7	-0.001	21	0.001	7	0.005	19	0.008	7	0.045	7
1778			min	30.491	21	-0.004	7	0	21	-0.005	13	-0.001	21	0.009	21
1779		5	max	122.689	7	-0.001	21	0.001	7	0.005	19	0.01	7	0.059	7
1780			min	30.391	21	-0.004	7	0	21	-0.005	13	-0.001	21	0.012	21
1781	(M-D)_L1	1	max	37.152	5	0	23	0.001	5	0.005	19	0	32	0	32
1782			min	8.347	23	0	13	0	23	-0.005	13	0	1	0	1
1783		2	max	37.018	5	0	23	0.001	5	0.005	19	0.004	5	0	13
1784			min	8.247	23	0	13	0	23	-0.005	13	0.001	23	0	23
1785		3	max	36.885	5	0	23	0.001	5	0.005	19	0.007	5	0	13
1786			min	8.148	23	0	13	0	23	-0.005	13	0.002	23	0	23
1787		4	max	36.752	5	0	23	0.001	5	0.005	19	0.011	5	0	13
1788			min	8.048	23	0	13	0	23	-0.005	13	0.002	23	0	23
1789		5	max	36.619	5	0	23	0.001	5	0.005	19	0.014	5	0	13
1790			min	7.948	23	0	13	0	23	-0.005	13	0.003	23	0	23
1791	C15_L1	1	max	59.271	7	0	21	0	23	0.005	19	0	32	0	32
1792			min	13.893	21	0	15	0	13	-0.005	13	0	1	0	1
1793		2	max	59.138	7	0	21	0	23	0.005	19	0	23	0	15
1794			min	13.794	21	0	15	0	13	-0.005	13	0	13	0	21
1795		3	max	59.005	7	0	21	0	23	0.005	19	0	23	0	15
1796			min	13.694	21	0	15	0	13	-0.005	13	0	13	0	21
1797		4	max	58.872	7	0	21	0	23	0.005	19	0	23	0	15
1798			min	13.594	21	0	15	0	13	-0.005	13	0	13	0	21

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
1799		5	max	58.738	7	0	21	0	23	0.005	19	0	23	0	15
1800			min	13.494	21	0	15	0	13	-0.005	13	0	13	0	21
1801	C19_L1	1	max	106.543	4	16.319	7	-0.081	21	-0.072	24	0	32	0	32
1802			min	22.114	23	3.03	21	-0.425	4	-0.312	6	0	1	0	1
1803		2	max	106.311	4	16.319	7	-0.081	21	-0.072	24	-0.324	21	-12.121	21
1804			min	21.94	23	3.03	21	-0.425	4	-0.312	6	-1.702	4	-65.276	7
1805		3	max	106.079	4	16.319	7	-0.081	21	-0.072	24	-0.648	21	-24.241	21
1806			min	21.766	23	3.03	21	-0.425	4	-0.312	6	-3.404	4	-130.553	7
1807		4	max	105.847	4	-8.891	21	1.37	4	0.973	7	-1.091	21	-36.362	21
1808			min	21.592	23	-45.529	7	0.273	21	0.126	21	-5.476	4	-195.829	7
1809		5	max	60.281	7	-8.891	21	1.37	4	0.973	7	0.006	7	0.198	5
1810			min	9.434	21	-45.529	7	0.273	21	0.126	21	0.001	21	0.036	23
1811	C20_L1	1	max	60.73	4	-0.014	23	-0.129	21	0.928	7	0	32	0	32
1812			min	13.531	23	-4.044	5	-0.614	4	0.104	21	0	1	0	1
1813		2	max	60.498	4	-0.014	23	-0.129	21	0.928	7	-0.516	21	16.174	5
1814			min	13.358	23	-4.044	5	-0.614	4	0.104	21	-2.456	4	0.054	23
1815		3	max	60.266	4	-0.014	23	-0.129	21	0.928	7	-1.032	21	32.349	5
1816			min	13.184	23	-4.044	5	-0.614	4	0.104	21	-4.911	4	0.109	23
1817		4	max	60.034	4	2.379	21	-0.179	9	-0.402	21	-1.547	21	48.523	5
1818			min	13.01	23	-6.98	7	-1.085	4	-2.743	7	-7.367	4	-26.981	15
1819		5	max	23.043	5	2.379	21	-0.194	21	-0.402	21	0.001	7	-0.002	23
1820			min	3.316	23	-6.98	7	-1.085	4	-2.743	7	0	21	-0.016	5
1821	(J-C)_L1	1	max	14.426	5	0.001	5	0	5	0.005	19	0	32	0	32
1822			min	4.456	23	0	23	0	23	-0.005	13	0	1	0	1
1823		2	max	14.292	5	0.001	5	0	5	0.005	19	0.001	5	0	23
1824			min	4.356	23	0	23	0	23	-0.005	13	0	23	-0.003	5
1825		3	max	14.159	5	0.001	5	0	5	0.005	19	0.002	5	-0.001	23
1826			min	4.256	23	0	23	0	23	-0.005	13	0	23	-0.006	5
1827		4	max	14.026	5	0.001	5	0	5	0.005	19	0.003	5	-0.001	23
1828			min	4.156	23	0	23	0	23	-0.005	13	0	23	-0.009	5
1829		5	max	13.893	5	0.001	5	0	5	0.005	19	0.003	5	-0.002	23
1830			min	4.056	23	0	23	0	23	-0.005	13	0	23	-0.012	5
1831	(K-C)_L1	1	max	15.294	5	0.689	4	0.008	4	0.005	19	0	32	0	32
1832			min	5.046	23	0.113	23	0	21	-0.005	13	0	1	0	1
1833		2	max	15.161	5	0.689	4	0.008	4	0.005	19	0.032	4	-0.454	23
1834			min	4.946	23	0.113	23	0	21	-0.005	13	-0.002	21	-2.756	4
1835		3	max	15.027	5	0.689	4	0.008	4	0.005	19	0.065	4	-0.907	23
1836			min	4.846	23	0.113	23	0	21	-0.005	13	-0.004	21	-5.512	4
1837		4	max	24.223	5	-0.341	23	0.141	7	0.005	19	-0.066	21	-1.361	23
1838			min	6.953	23	-2.071	4	0.017	21	-0.005	13	-0.562	7	-8.267	4
1839		5	max	24.09	5	-0.341	23	0.141	7	0.005	19	0	7	0.017	4
1840			min	6.853	23	-2.071	4	0.017	21	-0.005	13	0	21	0.003	21
1841	(C-5)_L1	1	max	38.434	7	0.42	5	0.008	19	0.005	19	0	32	0	32
1842			min	9.712	21	-0.063	23	-0.013	13	-0.005	13	0	1	0	1
1843		2	max	38.3	7	0.42	5	0.008	19	0.005	19	0.032	19	0.251	23
1844			min	9.613	21	-0.063	23	-0.013	13	-0.005	13	-0.05	13	-1.68	5
1845		3	max	38.167	7	0.42	5	0.008	19	0.005	19	0.064	19	0.501	23
1846			min	9.513	21	-0.063	23	-0.013	13	-0.005	13	-0.101	13	-3.361	5
1847		4	max	41.426	7	0.191	23	0.222	4	0.005	19	-0.197	21	0.752	23
1848			min	10.586	21	-1.255	5	0.049	21	-0.005	13	-0.882	4	-5.041	5
1849		5	max	41.293	7	0.191	23	0.222	4	0.005	19	0.004	7	-0.003	21
1850			min	10.486	21	-1.255	5	0.049	21	-0.005	13	0.001	21	-0.026	7
1851	M193	1	max	-0.877	23	11.342	4	1.417	21	5.516	5	0	32	0	32
1852			min	-5.699	5	3.293	23	-1.42	15	1.188	23	0	1	0	1
1853		2	max	-1.064	23	5.61	4	1.032	13	7.586	4	4.14	21	-12.325	21
1854			min	-5.623	4	1.652	23	-1.014	23	1.75	23	-4.16	15	-43.194	4
1855		3	max	-1.189	23	0.21	2	0.197	21	9.052	4	6.026	13	-16.239	21
1856			min	-5.647	4	0.074	23	-0.283	15	2.091	23	-5.96	23	-56.063	4

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
1857		4	max	-1.07	21	-1.432	21	0.186	13	9.994	4	3.364	21	-12.174	21
1858			min	-5.613	4	-4.885	4	-0.121	23	2.198	23	-3.746	15	-40.075	4
1859		5	max	-1.07	21	-2.716	21	1.372	15	9.994	4	0	32	0	32
1860			min	-5.613	4	-8.77	4	-1.307	21	2.198	23	0	1	0	1
1861	M194	1	max	-0.403	21	6.605	4	2.495	21	-1.249	23	0	32	0	32
1862			min	-2.061	4	2.184	21	-2.495	23	-6.487	5	0	1	0	1
1863		2	max	-0.403	21	3.302	4	1.247	21	-1.249	23	9.337	21	-8.174	32
1864			min	-2.061	4	1.092	21	-1.247	23	-6.487	5	-9.337	23	-24.718	4
1865		3	max	-0.403	21	0	32	0	32	-1.249	23	12.449	21	-10.899	32
1866			min	-2.061	4	0	1	0	1	-6.487	5	-12.449	23	-32.957	4
1867		4	max	-0.403	21	-1.092	32	1.247	19	-1.249	23	9.337	21	-8.174	32
1868			min	-2.061	4	-3.302	4	-1.247	13	-6.487	5	-9.337	23	-24.718	4
1869		5	max	-0.403	21	-2.184	32	2.495	19	-1.249	23	0	32	0	32
1870			min	-2.061	4	-6.605	4	-2.495	13	-6.487	5	0	1	0	1
1871	M196	1	max	-0.24	21	6.607	4	2.509	13	0.526	21	0	32	0	32
1872			min	-1.2	4	2.17	21	-2.509	19	-1.294	7	0	1	0	1
1873		2	max	-0.24	21	3.303	4	1.255	13	0.526	21	9.446	13	-8.167	32
1874			min	-1.2	4	1.085	21	-1.255	19	-1.294	7	-9.446	19	-24.869	4
1875		3	max	-0.24	21	0	32	0	32	0.526	21	12.595	13	-10.889	32
1876			min	-1.2	4	0	1	0	1	-1.294	7	-12.595	19	-33.159	4
1877		4	max	-0.24	21	-1.085	32	1.255	15	0.526	21	9.446	13	-8.167	32
1878			min	-1.2	4	-3.303	4	-1.255	17	-1.294	7	-9.446	19	-24.869	4
1879		5	max	-0.24	21	-2.17	32	2.509	15	0.526	21	0	32	0	32
1880			min	-1.2	4	-6.607	4	-2.509	17	-1.294	7	0	1	0	1
1881	M197	1	max	-0.865	22	9.193	4	1.131	15	1.609	7	0	32	0	32
1882			min	-4.275	4	2.581	23	-1.131	21	0.02	21	0	1	0	1
1883		2	max	-0.865	22	6.168	4	0.012	13	1.609	7	2.557	15	-10.118	21
1884			min	-4.275	4	1.58	23	-0.012	23	-0.075	17	-2.557	21	-39.316	4
1885		3	max	-0.739	23	-0.368	21	0.358	15	0.856	7	3.541	23	-13.891	21
1886			min	-4.329	5	-1.965	4	-0.357	21	-0.282	17	-3.541	13	-53.944	4
1887		4	max	-0.613	23	-1.933	21	0.01	23	-0.125	23	2.567	15	-11.12	21
1888			min	-4.399	5	-7.929	4	-0.01	13	-0.97	4	-2.565	21	-43.142	4
1889		5	max	-0.473	23	-2.934	21	1.132	21	-0.125	23	0	32	0	32
1890			min	-4.399	5	-10.953	4	-1.133	15	-0.97	4	0	1	0	1
1891	M198	1	max	1.675	5	-0.446	23	0.23	5	0.863	7	0	32	0	32
1892			min	-0.253	23	-3.761	4	0.046	23	0.055	21	0	1	0	1
1893		2	max	1.675	5	-0.563	23	0.23	5	0.863	7	0.62	5	10.346	4
1894			min	-0.253	23	-3.917	4	0.046	23	0.055	21	0.124	23	1.359	23
1895		3	max	1.675	5	-0.68	23	0.23	5	0.863	7	1.241	5	21.112	4
1896			min	-0.253	23	-4.073	4	0.046	23	0.055	21	0.248	23	3.034	23
1897		4	max	1.675	5	-0.797	23	0.23	5	0.863	7	1.861	5	32.3	4
1898			min	-0.253	23	-4.229	4	0.046	23	0.055	21	0.372	23	5.025	23
1899		5	max	5.06	21	32.374	4	0.989	13	0.713	5	6.506	5	65.288	4
1900			min	-5.261	15	8.604	21	-0.565	23	0.133	23	0.793	23	14.586	21
1901	M199	1	max	1.883	13	-1.053	23	1.739	7	0	32	0	32	0	32
1902			min	-1.585	23	-4.063	4	0.31	21	0	1	0	1	0	1
1903		2	max	3.489	4	6.63	7	-0.012	21	-0.064	21	0.821	7	64.04	7
1904			min	0.734	23	1.948	21	-0.074	7	-0.397	7	0.128	21	15.055	21
1905		3	max	3.489	4	6.106	7	-0.012	21	-0.064	21	0.493	7	35.755	7
1906			min	0.734	23	1.555	21	-0.074	7	-0.397	7	0.073	21	7.276	21
1907		4	max	3.489	4	5.582	7	-0.012	21	-0.064	21	0.164	7	9.796	7
1908			min	0.734	23	1.162	21	-0.074	7	-0.397	7	0.018	21	1.242	21
1909		5	max	3.489	4	5.058	7	-0.012	21	-0.064	21	-0.036	21	-2.934	23
1910			min	0.734	23	0.769	21	-0.074	7	-0.397	7	-0.164	7	-13.939	4
1911	M200	1	max	5.004	21	13.276	4	-0.175	21	-0.001	23	1.076	4	11.155	4
1912			min	-5.006	15	4.402	24	-0.861	4	-0.017	5	0.219	21	3.148	21
1913		2	max	5.004	21	13.26	4	-0.175	21	-0.001	23	0.807	4	7.483	2
1914			min	-5.006	15	4.39	24	-0.861	4	-0.017	5	0.164	21	1.774	21

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
1915		3	max	5.004	21	13.244	4	-0.175	21	-0.001	23	0.538	4	4.031	2
1916			min	-5.006	15	4.378	24	-0.861	4	-0.017	5	0.109	21	0.405	21
1917		4	max	5.004	21	13.228	4	-0.175	21	-0.001	23	0.269	4	1.347	19
1918			min	-5.006	15	4.366	24	-0.861	4	-0.017	5	0.055	21	-2.085	5
1919		5	max	5.004	21	13.212	4	-0.175	21	-0.001	23	0	32	-0.354	23
1920			min	-5.006	15	4.354	24	-0.861	4	-0.017	5	0	1	-5.902	5
1921	M201	1	max	2.93	5	25.34	7	-0.182	21	1.028	4	0.739	4	23.643	7
1922			min	-0.816	23	-0.901	21	-0.912	4	0.213	21	0.14	21	1.768	21
1923		2	max	2.93	5	25.324	7	-0.182	21	1.028	4	0.455	4	15.73	7
1924			min	-0.816	23	-0.913	21	-0.912	4	0.213	21	0.083	21	2.051	21
1925		3	max	2.93	5	25.308	7	-0.182	21	1.028	4	0.17	7	8.3	4
1926			min	-0.816	23	-0.926	21	-0.912	4	0.213	21	0.027	21	2.015	24
1927		4	max	2.93	5	25.292	7	-0.182	21	1.028	4	-0.019	23	3.036	13
1928			min	-0.816	23	-0.938	21	-0.912	4	0.213	21	-0.115	4	-2.024	23
1929		5	max	2.93	5	25.276	7	-0.182	21	1.028	4	-0.084	23	2.924	21
1930			min	-0.816	23	-0.95	21	-0.912	4	0.213	21	-0.4	4	-7.98	7
1931	M205	1	max	5.918	6	3.847	23	0	23	0	32	0	13	0.331	23
1932			min	0.484	24	-3.955	13	0	13	0	1	0	23	-0.651	13
1933		2	max	6.051	6	3.847	23	0	23	0	32	0.001	19	9.483	13
1934			min	0.584	24	-3.955	13	0	13	0	1	-0.001	13	-9.548	19
1935		3	max	6.184	6	3.847	23	0	23	0	32	0.001	23	19.616	13
1936			min	0.684	24	-3.955	13	0	13	0	1	-0.001	13	-19.386	23
1937		4	max	10.148	7	4.237	21	-0.062	21	-0.084	23	-0.047	21	7.212	21
1938			min	-6.544	17	-6.194	15	-0.293	4	-0.4	4	-0.291	4	-7.321	15
1939		5	max	10.281	7	4.237	21	-0.062	21	-0.084	23	-0.206	21	8.55	15
1940			min	-6.411	17	-6.194	15	-0.293	4	-0.4	4	-1.043	4	-3.645	21
1941	M212	1	max	0	15	10.051	13	0	21	0.126	7	0	13	6.2	15
1942			min	0	21	-5.963	23	0	19	0.007	21	0	23	-4.681	21
1943		2	max	0	15	10.035	13	0	21	0.126	7	0	13	7.486	15
1944			min	0	21	-5.975	23	0	19	0.007	21	0	23	-7.261	21
1945		3	max	0	15	10.019	13	0	21	0.126	7	0	13	9.204	23
1946			min	0	21	-5.987	23	0	19	0.007	21	0	23	-10.27	13
1947		4	max	0	15	10.003	13	0	21	0.126	7	0	13	11.077	23
1948			min	0	21	-5.999	23	0	19	0.007	21	0	23	-13.397	13
1949		5	max	0	15	9.986	13	0	21	0.126	7	0	13	12.952	23
1950			min	0	21	-6.011	23	0	19	0.007	21	0	23	-16.519	13
1951	M213	1	max	0.253	5	1.648	23	0.03	19	0	32	0	5	1.346	5
1952			min	0.159	23	-1.71	13	-0.114	5	0	1	0	23	-0.179	23
1953		2	max	0.407	1	1.648	23	0.03	19	0	32	0.077	19	5.442	13
1954			min	0.258	23	-1.71	13	-0.114	5	0	1	-0.291	5	-4.401	23
1955		3	max	0.562	1	1.648	23	0.03	19	0	32	0.153	19	9.825	13
1956			min	0.358	23	-1.71	13	-0.114	5	0	1	-0.583	5	-8.624	23
1957		4	max	-1.977	23	-1.583	21	2.436	4	-0.046	23	0.253	23	4.481	13
1958			min	-15.22	5	-18.064	7	0.463	23	-0.751	5	-0.398	5	-3.605	23
1959		5	max	-1.877	23	-1.583	21	2.436	4	-0.046	23	5.983	4	46.246	4
1960			min	-15.087	5	-18.064	7	0.463	23	-0.751	5	1.26	21	8.051	21
1961	M216	1	max	-0.399	22	8.662	4	0.95	15	-1.127	23	0	32	0	32
1962			min	-2.295	4	2.253	23	-0.882	21	-5.512	4	0	1	0	1
1963		2	max	-0.296	23	1.612	4	0.262	15	-1.056	23	2.403	15	-7.741	23
1964			min	-2.316	5	0.395	23	-0.181	21	-5.361	4	-2.012	21	-31.882	4
1965		3	max	-0.153	23	-1.458	21	0.313	21	-0.962	23	2.225	15	-4.12	23
1966			min	-2.415	5	-5.666	4	-0.342	15	-5.014	4	-1.698	21	-18.61	4
1967		4	max	0.081	17	4.431	4	1.424	23	1.876	19	3.842	13	14.607	4
1968			min	-0.099	7	1.564	21	-1.446	13	-1.9	13	-3.589	23	4.868	21
1969		5	max	0.081	17	0.812	7	0.054	23	1.876	19	0.509	15	0.336	7
1970			min	-0.099	7	0.365	21	-0.076	13	-1.9	13	-0.377	21	-0.559	17
1971	M218	1	max	0.632	1	3.814	15	0.117	17	2.68	15	-0.268	21	1.499	23
1972			min	0.199	7	-3.73	21	-0.017	7	-1.917	21	-0.738	7	-2.177	13

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
1973		2	max	0.787	1	3.814	15	0.117	17	2.68	15	-0.015	21	7.665	21
1974			min	0.332	7	-3.73	21	-0.017	7	-1.917	21	-0.783	7	-8.56	15
1975		3	max	0.942	1	3.814	15	0.117	17	2.68	15	0.238	21	17.222	21
1976			min	0.465	7	-3.73	21	-0.017	7	-1.917	21	-0.828	7	-18.334	15
1977		4	max	7.395	15	3.329	17	2.822	4	0.496	19	1.793	7	7.279	21
1978			min	-5.377	21	-3.392	15	0.455	23	-0.541	13	-0.065	21	-7.925	19
1979		5	max	7.528	15	3.329	17	2.822	4	0.496	19	8.843	4	0.804	15
1980			min	-5.277	21	-3.392	15	0.455	23	-0.541	13	1.746	21	-1.375	17
1981	M220	1	max	0.099	7	0.281	7	0.076	13	1.2	21	0.509	15	0.676	7
1982			min	-0.081	17	-0.041	17	-0.054	23	-1.403	15	-0.377	21	-0.273	17
1983		2	max	0.099	7	0.099	7	1.327	15	1.2	21	4.027	15	0.542	1
1984			min	-0.081	17	-0.246	1	-1.305	21	-1.403	15	-3.774	21	-0.373	5
1985		3	max	0.114	5	0.173	1	1.055	21	0.179	23	3.731	13	-0.241	23
1986			min	-0.03	19	0.108	21	-1.118	15	-1.346	5	-3.049	23	-0.774	5
1987		4	max	0.114	5	-0.022	23	0.278	23	0.179	23	5.616	13	-0.495	23
1988			min	-0.03	19	-0.071	5	-0.341	13	-1.346	5	-5.275	23	-0.887	5
1989		5	max	0.114	5	-0.159	23	1.648	23	0.179	23	0	32	0	32
1990			min	-0.03	19	-0.253	5	-1.71	13	-1.346	5	0	1	0	1
1991	M223	1	max	53.98	7	5.355	22	12.638	15	22.697	13	47.831	21	108.38	14
1992			min	7.082	21	-6.74	16	-5.311	21	-16.048	23	-107.478	15	-51.655	24
1993		2	max	53.352	7	5.355	22	12.638	15	22.697	13	18.286	21	96.717	6
1994			min	6.611	21	-6.74	16	-5.311	21	-16.048	23	-37.178	15	-17.323	24
1995		3	max	52.725	7	5.355	22	12.638	15	22.697	13	33.121	15	91.672	4
1996			min	6.14	21	-6.74	16	-5.311	21	-16.048	23	-11.26	21	17.001	21
1997		4	max	28.247	7	1.408	6	0.871	23	12.77	5	7.784	15	26.631	7
1998			min	-0.534	21	-2.027	20	-2.65	13	-5.124	23	-2.138	21	-6.041	3
1999		5	max	27.619	7	1.408	6	0.871	23	12.77	5	10.611	23	25.197	8
2000			min	-1.005	21	-2.027	20	-2.65	13	-5.124	23	-14.855	13	-6.991	18
2001	M224	1	max	0.39	21	1.887	7	0.279	3	4.517	5	0	32	0	32
2002			min	-14.012	7	0.299	21	-2.438	6	-1.361	23	0	1	0	1
2003		2	max	0.525	21	1.887	7	0.279	3	4.517	5	0.715	3	-0.767	21
2004			min	-13.831	7	0.299	21	-2.438	6	-1.361	23	-6.247	6	-4.835	7
2005		3	max	0.66	21	1.887	7	0.279	3	4.517	5	1.429	3	-1.533	21
2006			min	-13.651	7	0.299	21	-2.438	6	-1.361	23	-12.494	6	-9.67	7
2007		4	max	4.12	5	5.646	15	1.757	18	7.912	5	9.743	8	14.469	15
2008			min	-3.85	19	-2.292	21	-3.802	8	-3.143	23	-4.501	18	-5.874	21
2009		5	max	4.3	5	5.646	15	1.757	18	7.912	5	0	32	0	32
2010			min	-3.67	19	-2.292	21	-3.802	8	-3.143	23	0	1	0	1
2011	M225	1	max	6.273	5	1.282	13	1.907	23	1.673	23	24.202	21	7.51	6
2012			min	-0.193	23	-1.024	23	-5.242	13	-7.563	5	-25.808	15	-4.845	24
2013		2	max	6.273	5	1.282	13	2.871	23	1.673	23	8.307	21	8.846	14
2014			min	-0.193	23	-1.024	23	-3.31	13	-7.563	5	-18.048	15	-7.309	24
2015		3	max	6.273	5	1.282	13	4.697	15	1.673	23	-0.207	23	7.599	15
2016			min	-0.193	23	-1.024	23	-2.24	21	-7.563	5	-5.531	5	-7.172	21
2017		4	max	6.273	5	1.843	14	6.629	15	1.673	23	22.474	15	11.807	23
2018			min	-0.193	23	-1.585	24	-1.276	21	-7.563	5	-11.012	21	-12.494	13
2019		5	max	7.262	21	3.803	8	-1.635	23	-18.287	22	1.251	21	24.613	23
2020			min	-10.648	15	-1.756	18	-16.998	5	-72.774	4	-1.764	15	-27.55	13
2021	M229	1	max	34.512	5	8.636	14	4.6	23	33.865	14	38.599	21	102.853	14
2022			min	4.235	23	-7.251	24	-11.709	13	-25.95	24	-116.959	15	-57.718	24
2023		2	max	24.004	5	7.038	14	4.6	23	21.085	14	14.983	21	66.391	6
2024			min	0.192	23	-5.652	24	-11.709	13	-13.17	24	-47.07	15	-23.089	24
2025		3	max	14.219	13	3.84	14	4.6	23	15.511	16	22.819	15	46.638	6
2026			min	-3.852	23	-2.454	24	-11.709	13	-7.596	22	-8.633	21	-4.846	24
2027		4	max	8.457	5	3.142	6	4.407	23	16.953	5	17.779	19	24.536	5
2028			min	-2.416	23	-1.451	24	-5.798	13	-2.875	23	-17.931	13	-0.068	23
2029		5	max	2.608	5	1.892	6	3.337	19	13.791	5	22.065	15	8.197	5
2030			min	-2.488	19	-0.118	24	-3.084	21	-3.151	23	-15.128	21	-1.692	23

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
2031	M226	1	max	3.084	21	0.118	24	2.488	19	1.687	23	15.128	21	3.151	23
2032			min	-3.337	19	-1.892	6	-2.608	5	-8.196	5	-22.065	15	-13.791	5
2033		2	max	3.084	21	-0.151	21	2.738	19	1.687	23	6.28	21	5.539	23
2034			min	-3.337	19	-1.758	7	-1.958	21	-8.196	5	-12.055	15	-8.413	13
2035		3	max	3.084	21	0.041	22	3.343	15	1.687	23	1.769	19	8.997	15
2036			min	-3.337	19	-1.854	8	-1.77	21	-8.196	5	-3.715	5	-6.495	21
2037		4	max	3.084	21	0.472	22	4.537	7	1.687	23	16.78	15	14.435	7
2038			min	-3.337	19	-2.069	8	-1.583	21	-8.196	5	-8.989	21	-5.846	21
2039		5	max	5.709	13	0.279	3	-0.39	21	6.363	22	0.332	23	20.01	15
2040			min	-4.15	23	-2.438	6	-21.452	7	-32.407	8	-0.649	13	-14.001	21
2041	M227	1	max	0	32	4.954	15	-0.579	22	0.331	23	32.407	8	20.259	15
2042			min	0	1	-4.846	21	-7.541	8	-0.651	13	-6.363	22	-16.493	21
2043		2	max	0	32	2.766	15	-0.199	22	0.331	23	2.264	24	17.669	13
2044			min	0	1	-2.659	21	-4.233	8	-0.651	13	-25.122	6	-14.851	23
2045		3	max	0	32	0.579	15	0.182	22	0.331	23	-1.82	24	30.922	13
2046			min	0	1	-0.471	21	-0.926	8	-0.651	13	-45.69	6	-29.044	23
2047		4	max	0	32	1.767	13	2.611	6	0.331	23	-2.575	24	25.033	13
2048			min	0	1	-1.66	23	0.104	24	-0.651	13	-37.316	6	-24.093	23
2049		5	max	0	32	3.955	13	5.918	6	0.331	23	0	32	0	32
2050			min	0	1	-3.847	23	0.484	24	-0.651	13	0	1	0	1
2051	M228	1	max	0	32	5.003	15	-4.434	22	1.247	21	72.774	4	21.958	15
2052			min	0	1	-4.97	21	-13.769	4	-1.774	15	18.287	22	-20.822	21
2053		2	max	0	32	2.815	15	-2.478	22	1.247	21	0.098	24	13.462	13
2054			min	0	1	-2.782	21	-7.924	4	-1.774	15	-24.001	6	-12.612	23
2055		3	max	0	32	0.627	15	-0.522	22	1.247	21	-17.047	24	28.117	13
2056			min	0	1	-0.595	21	-2.079	4	-1.774	15	-65.908	4	-27.551	23
2057		4	max	0	32	1.607	13	3.766	4	1.247	21	-17.08	24	23.63	13
2058			min	0	1	-1.574	23	0.974	24	-1.774	15	-58.528	4	-23.347	23
2059		5	max	0	32	3.794	13	9.611	4	1.247	21	0	32	0	32
2060			min	0	1	-3.762	23	2.93	24	-1.774	15	0	1	0	1
2061	M221	1	max	4.266	17	0.032	3	0.873	4	0.338	23	0	32	0	32
2062			min	-0.471	23	-0.106	7	0.151	23	-0.42	13	0	1	0	1
2063		2	max	4.034	17	0.032	3	0.873	4	0.338	23	3.491	4	0.424	7
2064			min	-0.644	23	-0.106	7	0.151	23	-0.42	13	0.604	23	-0.129	3
2065		3	max	3.802	17	0.032	3	0.873	4	0.338	23	6.981	4	0.848	7
2066			min	-0.823	15	-0.106	7	0.151	23	-0.42	13	1.209	23	-0.257	3
2067		4	max	10.847	5	0.486	19	0.873	4	0.609	13	10.472	4	1.272	7
2068			min	-4.548	23	-0.43	13	-0.003	23	-0.57	23	1.813	23	-0.386	3
2069		5	max	9.145	5	7.753	15	3.648	5	5.068	13	0	23	-0.001	23
2070			min	1.284	23	-7.23	21	-0.792	23	-3.448	23	-0.004	5	-0.006	5
2071	M222	1	max	65.291	4	-0.846	23	-0.134	23	0.345	7	0	32	0	32
2072			min	15.412	21	-5.122	4	-0.64	4	-0.026	21	0	1	0	1
2073		2	max	65.059	4	-0.846	23	-0.134	23	0.345	7	-0.538	23	20.489	4
2074			min	15.238	21	-5.122	4	-0.64	4	-0.026	21	-2.561	4	3.383	23
2075		3	max	64.828	4	-0.846	23	-0.134	23	0.345	7	-1.076	23	40.977	4
2076			min	15.064	21	-5.122	4	-0.64	4	-0.026	21	-5.121	4	6.766	23
2077		4	max	64.596	4	9.525	5	-0.015	23	-0.083	21	-1.614	23	61.466	4
2078			min	14.89	21	0.908	23	-0.073	5	-0.772	7	-7.682	4	10.149	23
2079		5	max	17.797	7	3.326	21	-0.449	23	0.488	21	0	7	-0.001	21
2080			min	2.955	21	-10.444	7	-2.594	4	-2.553	7	0	21	-0.008	7
2081	M230	1	max	2.76	4	-2.102	21	0.133	7	0.655	7	0	32	0	32
2082			min	0.455	23	-9.672	4	0.017	21	0.06	21	0	1	0	1
2083		2	max	2.76	4	-2.185	21	0.133	7	0.655	7	0.253	7	18.482	4
2084			min	0.455	23	-9.782	4	0.017	21	0.06	21	0.032	21	4.073	21
2085		3	max	2.76	4	-2.268	21	0.133	7	0.655	7	0.505	7	37.173	4
2086			min	0.455	23	-9.893	4	0.017	21	0.06	21	0.065	21	8.303	21
2087		4	max	2.76	4	-2.35	21	0.133	7	0.655	7	0.758	7	56.074	4
2088			min	0.455	23	-10.003	4	0.017	21	0.06	21	0.097	21	12.689	21

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
2089		5	max	17.279	5	20.696	7	2.12	5	3.005	7	4.393	4	67.443	4
2090			min	2.203	23	4.07	21	0.234	23	0.329	21	0.971	23	12.128	23
2091	M217	1	max	6.845	21	6.166	17	3.3	5	1.128	21	2.878	23	5.387	19
2092			min	-7.329	15	-6.503	15	-0.789	23	-1.712	15	-4.459	13	-5.381	13
2093		2	max	6.845	21	6.15	17	3.3	5	1.128	21	2.627	23	7.289	19
2094			min	-7.329	15	-6.519	15	-0.789	23	-1.712	15	-3.609	13	-7.172	13
2095		3	max	6.845	21	6.133	17	3.3	5	1.128	21	2.377	23	9.209	15
2096			min	-7.329	15	-6.536	15	-0.789	23	-1.712	15	-2.759	13	-9.008	21
2097		4	max	6.845	21	6.117	17	3.3	5	1.128	21	2.198	15	11.287	15
2098			min	-7.329	15	-6.552	15	-0.789	23	-1.712	15	-1.981	21	-10.948	21
2099		5	max	6.845	21	6.1	17	3.3	5	1.128	21	2.219	15	13.37	15
2100			min	-7.329	15	-6.569	15	-0.789	23	-1.712	15	-1.402	21	-12.884	21
2101	M219	1	max	-0.013	21	15.936	5	0.656	21	1.418	5	1.781	7	5.839	15
2102			min	-18.948	7	2.483	23	-1.115	15	-0.681	23	-0.571	21	-2.919	21
2103		2	max	-0.013	21	15.92	5	0.656	21	1.418	5	1.498	7	4.028	23
2104			min	-18.948	7	2.471	23	-1.115	15	-0.681	23	-0.364	21	-5.111	13
2105		3	max	-0.013	21	15.904	5	0.656	21	1.418	5	1.214	7	3.252	23
2106			min	-18.948	7	2.459	23	-1.115	15	-0.681	23	-0.158	21	-8.843	5
2107		4	max	-0.013	21	15.887	5	0.656	21	1.418	5	0.93	7	2.479	23
2108			min	-18.948	7	2.447	23	-1.115	15	-0.681	23	0.049	21	-13.85	5
2109		5	max	-0.013	21	15.871	5	0.656	21	1.418	5	0.751	5	1.711	23
2110			min	-18.948	7	2.434	23	-1.115	15	-0.681	23	0.046	23	-18.852	5
2111	M232	1	max	0.281	7	0.054	23	0.099	7	0.509	15	0.273	17	1.2	21
2112			min	-0.041	17	-0.076	13	-0.081	17	-0.377	21	-0.676	7	-1.403	15
2113		2	max	0.414	7	0.054	23	0.099	7	0.509	15	0.065	17	1.365	21
2114			min	0.066	21	-0.076	13	-0.081	17	-0.377	21	-0.423	7	-1.512	15
2115		3	max	0.546	7	0.054	23	0.099	7	0.509	15	-0.096	24	1.531	21
2116			min	0.166	21	-0.076	13	-0.081	17	-0.377	21	-0.182	4	-1.621	15
2117		4	max	0.679	7	0.054	23	0.099	7	0.509	15	0.083	7	1.704	13
2118			min	0.266	21	-0.076	13	-0.081	17	-0.377	21	-0.356	3	-1.745	19
2119		5	max	0.812	7	0.054	23	0.099	7	0.509	15	0.336	7	1.9	13
2120			min	0.365	21	-0.076	13	-0.081	17	-0.377	21	-0.559	17	-1.876	19
2121	M233	1	max	0.348	5	6.669	4	0.132	21	-0.805	23	0	32	0	32
2122			min	-0.009	23	1.498	21	-0.712	7	-2.989	4	0	1	0	1
2123		2	max	0.348	5	6.385	4	0.132	21	-0.805	23	0.529	21	-5.747	21
2124			min	-0.009	23	1.361	21	-0.712	7	-2.989	4	-2.864	7	-26.24	4
2125		3	max	0.348	5	2.183	4	0.866	13	-0.805	23	3.645	21	-6.715	23
2126			min	-0.009	23	0.448	21	-0.645	23	-2.989	4	-4.576	15	-30.749	4
2127		4	max	0.348	5	-1.046	23	0.915	15	-0.805	23	3.188	21	-4.887	23
2128			min	-0.009	23	-5.179	4	-0.793	21	-2.989	4	-3.679	15	-22.263	4
2129		5	max	0.348	5	-1.184	23	0.915	15	-0.805	23	0	32	0	32
2130			min	-0.009	23	-5.463	4	-0.793	21	-2.989	4	0	1	0	1
2131	M234	1	max	0	21	5.28	4	0	22	-0.001	23	0	32	0	32
2132			min	-0.001	7	1.115	21	0	16	-0.006	4	0	1	0	1
2133		2	max	0	21	3.968	4	0	22	-0.001	23	0	22	-3.605	21
2134			min	-0.001	7	0.651	21	0	16	-0.006	4	0	16	-19.126	4
2135		3	max	0.001	7	1.921	4	0	22	-0.001	23	0	23	-5.318	21
2136			min	0	21	0.188	21	0	16	-0.006	4	0	13	-31.396	4
2137		4	max	0.001	7	-0.651	23	0	13	-0.001	23	0	23	-3.605	23
2138			min	0	21	-3.723	5	0	23	-0.006	5	0	13	-22.125	5
2139		5	max	0.001	7	-1.115	23	0	13	-0.001	23	0	32	0	32
2140			min	0	21	-7.239	5	0	23	-0.006	5	0	1	0	1
2141	M235	1	max	0.866	5	4.013	4	1.17	13	4.59	7	0	32	0	32
2142			min	0.093	23	0.933	23	-1.17	23	0.809	21	0	1	0	1
2143		2	max	0.866	5	3.695	4	1.17	13	4.59	7	5.267	13	-5.227	21
2144			min	0.093	23	0.779	23	-1.17	23	0.809	21	-5.265	23	-22.509	4
2145		3	max	0.866	5	-0.421	21	0.361	15	4.59	7	6.9	21	-6.822	21
2146			min	0.093	23	-2.245	4	-0.361	21	0.809	21	-6.9	15	-29.701	4

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
2147		4	max	0.866	5	-1.042	21	1.172	23	4.59	7	5.274	13	-5.037	21
2148			min	0.093	23	-4.989	4	-1.172	13	0.809	21	-5.274	23	-23.167	4
2149		5	max	0.866	5	-1.196	21	1.172	23	4.59	7	0	32	0	32
2150			min	0.093	23	-5.307	4	-1.172	13	0.809	21	0	1	0	1
2151	M236	1	max	1.834	5	2.111	4	1.509	13	0	32	0	32	0	32
2152			min	0.211	23	0.592	21	-1.507	23	0	1	0	1	0	1
2153		2	max	1.834	5	0.431	3	0.415	21	0	32	8.544	13	-6.096	23
2154			min	0.211	23	-0.254	5	-0.436	15	0	1	-8.529	23	-22.753	4
2155		3	max	1.834	5	-0.434	23	0.32	15	0	32	10.892	21	-7.813	23
2156			min	0.211	23	-2.061	4	-0.234	21	0	1	-10.994	15	-29.277	4
2157		4	max	1.834	5	-0.859	23	1.646	23	0	32	9.706	13	-5.418	23
2158			min	0.211	23	-3.663	4	-1.713	13	0	1	-9.323	23	-21.884	4
2159		5	max	1.834	5	-1.053	23	1.646	23	0	32	0	32	0	32
2160			min	0.211	23	-4.063	4	-1.713	13	0	1	0	1	0	1
2161	M237	1	max	0.811	23	2.426	4	0	32	-0.457	21	0	32	0	32
2162			min	-0.811	13	0.467	23	0	1	-4.326	7	0	1	0	1
2163		2	max	0.811	23	1.213	4	0	32	-0.457	21	0	32	-0.658	23
2164			min	-0.811	13	0.233	23	0	1	-4.326	7	0	1	-3.419	4
2165		3	max	0.811	23	0	32	0	32	-0.457	21	0	32	-0.877	23
2166			min	-0.811	13	0	1	0	1	-4.326	7	0	1	-4.558	4
2167		4	max	0.811	23	-0.233	21	0	32	-0.457	21	0	32	-0.658	23
2168			min	-0.811	13	-1.213	5	0	1	-4.326	7	0	1	-3.419	4
2169		5	max	0.811	23	-0.467	21	0	32	-0.457	21	0	32	0	32
2170			min	-0.811	13	-2.426	5	0	1	-4.326	7	0	1	0	1
2171	M238	1	max	0.725	15	2.683	8	0	32	-0.82	21	0	32	0	32
2172			min	-0.724	21	0.516	21	0	1	-4.506	4	0	1	0	1
2173		2	max	0.725	15	1.341	8	0	32	-0.82	21	0	32	-0.804	32
2174			min	-0.724	21	0.258	21	0	1	-4.506	4	0	1	-4.18	4
2175		3	max	0.725	15	0	32	0	32	-0.82	21	0	32	-1.073	32
2176			min	-0.724	21	0	1	0	1	-4.506	4	0	1	-5.573	4
2177		4	max	0.725	15	-0.258	32	0	32	-0.82	21	0	32	-0.804	32
2178			min	-0.724	21	-1.341	4	0	1	-4.506	4	0	1	-4.18	4
2179		5	max	0.725	15	-0.516	32	0	32	-0.82	21	0	32	0	32
2180			min	-0.724	21	-2.683	4	0	1	-4.506	4	0	1	0	1
2181	M239	1	max	0.807	23	2.939	8	0	32	-1.213	21	0	32	0	32
2182			min	-0.808	13	0.566	21	0	1	-5.166	4	0	1	0	1
2183		2	max	0.807	23	1.47	8	0	32	-1.213	21	0	32	-0.966	32
2184			min	-0.808	13	0.283	21	0	1	-5.166	4	0	1	-5.018	4
2185		3	max	0.807	23	0	32	0	32	-1.213	21	0	32	-1.288	32
2186			min	-0.808	13	0	1	0	1	-5.166	4	0	1	-6.691	4
2187		4	max	0.807	23	-0.283	32	0	32	-1.213	21	0	32	-0.966	32
2188			min	-0.808	13	-1.47	4	0	1	-5.166	4	0	1	-5.018	4
2189		5	max	0.807	23	-0.566	32	0	32	-1.213	21	0	32	0	32
2190			min	-0.808	13	-2.939	4	0	1	-5.166	4	0	1	0	1
2191	M240	1	max	0.692	15	3.425	8	0	32	0.957	2	0	32	0	32
2192			min	-0.679	21	0.659	21	0	1	0.405	23	0	1	0	1
2193		2	max	0.692	15	1.712	8	0	32	0.957	2	0	32	-1.311	32
2194			min	-0.679	21	0.33	21	0	1	0.405	23	0	1	-6.811	4
2195		3	max	0.692	15	0	32	0	32	0.957	2	0	32	-1.748	32
2196			min	-0.679	21	0	1	0	1	0.405	23	0	1	-9.082	4
2197		4	max	0.692	15	-0.33	32	0	32	0.957	2	0	32	-1.311	32
2198			min	-0.679	21	-1.712	4	0	1	0.405	23	0	1	-6.811	4
2199		5	max	0.692	15	-0.659	32	0	32	0.957	2	0	32	0	32
2200			min	-0.679	21	-3.425	4	0	1	0.405	23	0	1	0	1
2201	M241	1	max	0.823	23	3.653	8	0	32	2.003	4	0	32	0	32
2202			min	-0.935	13	0.703	23	0	1	0.529	21	0	1	0	1
2203		2	max	0.823	23	1.827	8	0	32	2.003	4	0	32	-1.492	23
2204			min	-0.935	13	0.352	23	0	1	0.529	21	0	1	-7.751	4

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
2205		3	max	0.823	23	0	32	0	32	2.003	4	0	32	-1.989	23
2206			min	-0.935	13	0	1	0	1	0.529	21	0	1	-10.335	4
2207		4	max	0.823	23	-0.352	32	0	32	2.003	4	0	32	-1.492	23
2208			min	-0.935	13	-1.827	4	0	1	0.529	21	0	1	-7.751	4
2209		5	max	0.823	23	-0.703	32	0	32	2.003	4	0	32	0	32
2210			min	-0.935	13	-3.653	4	0	1	0.529	21	0	1	0	1
2211	M245	1	max	1.085	5	3.919	8	0	32	4.836	4	0	32	0	32
2212			min	-0.246	23	0.775	21	0	1	1.064	21	0	1	0	1
2213		2	max	1.085	5	1.959	8	0	32	4.836	4	0	32	-1.747	32
2214			min	-0.246	23	0.387	21	0	1	1.064	21	0	1	-8.834	4
2215		3	max	1.085	5	0	32	0	32	4.836	4	0	32	-2.329	32
2216			min	-0.246	23	0	1	0	1	1.064	21	0	1	-11.779	4
2217		4	max	1.085	5	-0.387	32	0	32	4.836	4	0	32	-1.747	32
2218			min	-0.246	23	-1.959	4	0	1	1.064	21	0	1	-8.834	4
2219		5	max	1.085	5	-0.775	32	0	32	4.836	4	0	32	0	32
2220			min	-0.246	23	-3.919	4	0	1	1.064	21	0	1	0	1
2221	M246	1	max	1.079	23	1.847	4	0	32	-3.233	23	0	32	0	32
2222			min	-1.102	13	0.355	23	0	1	-11.938	4	0	1	0	1
2223		2	max	1.079	23	0.924	4	0	32	-3.233	23	0	32	-0.381	32
2224			min	-1.102	13	0.178	23	0	1	-11.938	4	0	1	-1.981	4
2225		3	max	1.079	23	0	32	0	32	-3.233	23	0	32	-0.508	23
2226			min	-1.102	13	0	1	0	1	-11.938	4	0	1	-2.642	4
2227		4	max	1.079	23	-0.178	21	0	32	-3.233	23	0	32	-0.381	32
2228			min	-1.102	13	-0.924	5	0	1	-11.938	4	0	1	-1.981	4
2229		5	max	1.079	23	-0.355	21	0	32	-3.233	23	0	32	0	32
2230			min	-1.102	13	-1.847	5	0	1	-11.938	4	0	1	0	1
2231	M247	1	max	0.756	15	1.524	5	0	32	-1.965	23	0	32	0	32
2232			min	-0.65	21	0.293	23	0	1	-8.432	4	0	1	0	1
2233		2	max	0.756	15	0.762	5	0	32	-1.965	23	0	32	-0.26	23
2234			min	-0.65	21	0.147	23	0	1	-8.432	4	0	1	-1.349	4
2235		3	max	0.756	15	0	32	0	32	-1.965	23	0	32	-0.346	23
2236			min	-0.65	21	0	1	0	1	-8.432	4	0	1	-1.799	4
2237		4	max	0.756	15	-0.147	21	0	32	-1.965	23	0	32	-0.26	23
2238			min	-0.65	21	-0.762	7	0	1	-8.432	4	0	1	-1.349	4
2239		5	max	0.756	15	-0.293	21	0	32	-1.965	23	0	32	0	32
2240			min	-0.65	21	-1.524	7	0	1	-8.432	4	0	1	0	1
2241	M248	1	max	1.359	23	1.202	7	0	32	-0.615	23	0	32	0	32
2242			min	-1.512	13	0.231	21	0	1	-5.422	4	0	1	0	1
2243		2	max	1.359	23	0.601	7	0	32	-0.615	23	0	32	-0.161	21
2244			min	-1.512	13	0.116	21	0	1	-5.422	4	0	1	-0.838	6
2245		3	max	1.359	23	0	32	0	32	-0.615	23	0	32	-0.215	21
2246			min	-1.512	13	0	1	0	1	-5.422	4	0	1	-1.118	7
2247		4	max	1.359	23	-0.116	23	0	32	-0.615	23	0	32	-0.161	21
2248			min	-1.512	13	-0.601	4	0	1	-5.422	4	0	1	-0.838	7
2249		5	max	1.359	23	-0.231	23	0	32	-0.615	23	0	32	0	32
2250			min	-1.512	13	-1.202	4	0	1	-5.422	4	0	1	0	1
2251	M249	1	max	43.123	7	0.552	5	0.3	4	0.15	7	0	32	0	32
2252			min	7.117	21	0.063	23	0.061	21	-0.018	21	0	1	0	1
2253		2	max	43.023	7	0.552	5	0.3	4	0.15	7	0.899	4	-0.188	23
2254			min	7.042	21	0.063	23	0.061	21	-0.018	21	0.184	21	-1.657	5
2255		3	max	42.923	7	0.552	5	0.3	4	0.15	7	1.797	4	-0.376	23
2256			min	6.967	21	0.063	23	0.061	21	-0.018	21	0.368	21	-3.314	5
2257		4	max	42.823	7	0.552	5	0.3	4	0.15	7	2.696	4	-0.565	23
2258			min	6.892	21	0.063	23	0.061	21	-0.018	21	0.552	21	-4.971	5
2259		5	max	42.723	7	0.552	5	0.3	4	0.15	7	3.594	4	-0.753	23
2260			min	6.817	21	0.063	23	0.061	21	-0.018	21	0.736	21	-6.628	5
2261	M250	1	max	2.681	13	11.84	4	-0.118	23	0	32	6.506	5	69.28	4
2262			min	-2.679	23	2.686	21	-0.968	5	0	1	0.793	23	15.843	21

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
2263		2	max	2.681	13	10.734	4	-0.118	23	0	32	4.879	5	50.318	4
2264			min	-2.679	23	2.461	21	-0.968	5	0	1	0.595	23	11.519	21
2265		3	max	2.681	13	9.629	4	-0.118	23	0	32	3.253	5	33.213	4
2266			min	-2.679	23	2.237	21	-0.968	5	0	1	0.397	23	7.573	21
2267		4	max	2.681	13	8.523	4	-0.118	23	0	32	1.626	5	17.965	4
2268			min	-2.679	23	2.013	21	-0.968	5	0	1	0.198	23	4.003	21
2269		5	max	2.681	13	7.418	4	-0.118	23	0	32	0	32	4.59	7
2270			min	-2.679	23	1.789	21	-0.968	5	0	1	0	1	0.809	21
2271	M251	1	max	0.423	13	3.556	23	-0.076	21	13.671	4	0.908	23	0.572	17
2272			min	-0.462	19	-9.517	5	-0.561	4	2.837	22	-1.029	13	-0.598	7
2273		2	max	-0.02	21	-4.39	21	0.077	19	-0.736	21	3.334	5	67.49	4
2274			min	-1.219	7	-29.999	7	-0.089	21	-3.594	4	-0.226	23	12.388	23
2275		3	max	0.132	21	10.855	4	0.009	23	0	32	2.436	5	64.325	4
2276			min	-0.712	7	2.118	21	-0.348	5	0	1	-0.066	23	13.483	21
2277		4	max	0.132	21	8.762	4	0.009	23	0	32	1.218	5	29.995	4
2278			min	-0.712	7	1.808	21	-0.348	5	0	1	-0.033	23	6.608	22
2279		5	max	0.132	21	6.669	4	0.009	23	0	32	0	32	2.989	4
2280			min	-0.712	7	1.498	21	-0.348	5	0	1	0	1	0.805	23
2281	M252	1	max	1.963	21	15.991	4	-0.103	23	0	32	5.124	5	118.499	4
2282			min	-2.085	15	3.438	23	-0.518	5	0	1	1.017	23	25.68	23
2283		2	max	1.963	21	14.362	4	-0.103	23	0	32	3.843	5	80.937	4
2284			min	-2.085	15	3.108	23	-0.518	5	0	1	0.763	23	17.579	23
2285		3	max	1.963	21	12.734	4	-0.103	23	0	32	2.562	5	47.407	4
2286			min	-2.085	15	2.777	23	-0.518	5	0	1	0.508	23	10.296	23
2287		4	max	1.963	21	11.105	4	-0.103	23	0	32	1.281	5	17.906	4
2288			min	-2.085	15	2.447	23	-0.518	5	0	1	0.254	23	3.83	23
2289		5	max	1.963	21	9.477	4	-0.103	23	0	32	0	32	-1.636	21
2290			min	-2.085	15	2.117	23	-0.518	5	0	1	0	1	-7.564	4
2291	M253	1	max	0	32	2.863	8	0	32	0	21	0	32	0	32
2292			min	0	1	0.376	23	0	1	-0.001	4	0	1	0	1
2293		2	max	0	32	1.431	8	0	32	0	21	0	32	-0.347	23
2294			min	0	1	0.188	23	0	1	-0.001	4	0	1	-2.641	4
2295		3	max	0	32	0	32	0	32	0	21	0	32	-0.462	23
2296			min	0	1	0	1	0	1	-0.001	4	0	1	-3.521	4
2297		4	max	0	32	-0.188	32	0	32	0	21	0	32	-0.347	32
2298			min	0	1	-1.431	4	0	1	-0.001	4	0	1	-2.641	4
2299		5	max	0	32	-0.376	32	0	32	0	21	0	32	0	32
2300			min	0	1	-2.863	4	0	1	-0.001	4	0	1	0	1
2301	M255	1	max	4.928	7	0.508	5	-0.727	23	-0.052	21	0	32	0	32
2302			min	0.67	21	0.1	23	-3.449	4	-0.234	7	0	1	0	1
2303		2	max	4.961	7	0.507	5	-0.727	23	-0.052	21	-0.727	23	-0.1	23
2304			min	0.695	21	0.1	23	-3.449	4	-0.234	7	-3.449	4	-0.508	5
2305		3	max	4.994	7	0.507	5	-0.727	23	-0.052	21	-1.454	23	-0.199	23
2306			min	0.72	21	0.099	23	-3.449	4	-0.234	7	-6.897	4	-1.015	5
2307		4	max	5.028	7	0.507	5	-0.727	23	-0.052	21	-2.181	23	-0.299	23
2308			min	0.745	21	0.099	23	-3.449	4	-0.234	7	-10.346	4	-1.522	5
2309		5	max	5.061	7	0.507	5	-0.727	23	-0.052	21	-2.909	23	-0.398	23
2310			min	0.77	21	0.099	23	-3.449	4	-0.234	7	-13.795	4	-2.029	5
2311	M256	1	max	61.613	5	0.269	1	0	32	0.774	7	0	32	0	32
2312			min	10.766	23	0.173	29	0	1	0.185	21	0	1	0	1
2313		2	max	61.579	5	0.134	1	0	32	0.774	7	0	32	-0.466	32
2314			min	10.741	23	0.086	29	0	1	0.185	21	0	1	-0.725	1
2315		3	max	61.546	5	0	32	0	32	0.774	7	0	32	-0.621	32
2316			min	10.716	23	0	1	0	1	0.185	21	0	1	-0.967	1
2317		4	max	61.513	5	-0.086	24	0	32	0.774	7	0	32	-0.466	32
2318			min	10.691	23	-0.134	1	0	1	0.185	21	0	1	-0.725	1
2319		5	max	61.479	5	-0.173	24	0	32	0.774	7	0	32	0	32
2320			min	10.666	23	-0.269	1	0	1	0.185	21	0	1	0	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
2321	M254	1	max	2.738	13	1.334	24	0.524	23	1.773	23	22.43	13	0.339	22
2322			min	-1.129	23	-1.733	14	-5.221	5	-7.657	5	-16.055	23	-3.468	8
2323		2	max	2.738	13	0.786	21	1.488	23	1.773	23	6.835	21	5.208	22
2324			min	-1.129	23	-1.185	15	-3.26	13	-7.657	5	-14.352	15	-5.807	16
2325		3	max	2.738	13	0.786	21	2.856	15	1.773	23	-2.714	21	8.972	15
2326			min	-1.129	23	-1.185	15	-1.732	21	-7.657	5	-8.87	4	-7.85	21
2327		4	max	2.738	13	1.028	22	4.868	7	1.773	23	10.282	15	14.086	15
2328			min	-1.129	23	-1.427	16	-0.768	21	-7.657	5	-8.105	21	-11.241	21
2329		5	max	2.738	13	1.89	22	7.533	7	1.773	23	35.099	15	19.199	15
2330			min	-1.129	23	-2.29	16	0.196	21	-7.657	5	-9.338	21	-14.633	21
2331	M257	1	max	0	32	3.198	24	-3.573	23	0	32	85.368	4	25.56	24
2332			min	0	1	-3.198	14	-10.679	4	0	1	28.561	23	-25.56	18
2333		2	max	0	32	2.398	24	-2.68	23	0	32	48.019	4	14.378	16
2334			min	0	1	-2.398	14	-8.009	4	0	1	16.065	23	-14.378	18
2335		3	max	0	32	1.599	24	-1.786	23	0	32	21.342	4	6.39	16
2336			min	0	1	-1.599	14	-5.34	4	0	1	7.14	21	-6.39	18
2337		4	max	0	32	0.799	24	-0.893	23	0	32	5.335	4	1.598	16
2338			min	0	1	-0.799	14	-2.67	4	0	1	1.785	21	-1.598	18
2339		5	max	0	32	0	32	0	32	0	32	0	32	0	32
2340			min	0	1	0	1	0	1	0	1	0	1	0	1
2341	M258	1	max	0	32	1.599	24	-3.573	23	0	32	85.368	4	12.78	24
2342			min	0	1	-1.599	14	-10.679	4	0	1	28.561	23	-12.78	22
2343		2	max	0	32	1.199	24	-2.68	23	0	32	48.019	4	7.189	20
2344			min	0	1	-1.199	14	-8.009	4	0	1	16.065	23	-7.189	22
2345		3	max	0	32	0.799	24	-1.786	23	0	32	21.342	4	3.195	20
2346			min	0	1	-0.799	14	-5.34	4	0	1	7.14	29	-3.195	22
2347		4	max	0	32	0.4	24	-0.893	23	0	32	5.335	4	0.799	20
2348			min	0	1	-0.4	14	-2.67	4	0	1	1.785	29	-0.799	22
2349		5	max	0	32	0	32	0	32	0	32	0	32	0	32
2350			min	0	1	0	1	0	1	0	1	0	1	0	1
2351	M244	1	max	0	32	4.953	15	-0.555	22	0.661	13	37.447	8	20.236	15
2352			min	0	1	-4.875	21	-7.685	8	-0.421	23	-7.306	18	-17.495	21
2353		2	max	0	32	2.766	15	-0.175	22	0.661	13	2.971	24	16.531	13
2354			min	0	1	-2.687	21	-4.377	8	-0.421	23	-22.008	6	-14.48	23
2355		3	max	0	32	0.578	15	0.209	18	0.661	13	-1.348	24	30.164	13
2356			min	0	1	-0.5	21	-1.07	8	-0.421	23	-43.614	6	-28.796	23
2357		4	max	0	32	1.724	13	2.492	6	0.661	13	-2.339	24	24.653	13
2358			min	0	1	-1.645	23	0.077	24	-0.421	23	-36.278	6	-23.969	23
2359		5	max	0	32	3.911	13	5.799	6	0.661	13	0	32	0	32
2360			min	0	1	-3.833	23	0.457	24	-0.421	23	0	1	0	1
2361	M242	1	max	0	32	15.382	8	0	32	0.01	5	0	32	0	32
2362			min	0	1	2.726	21	0	1	0.002	23	0	1	0	1
2363		2	max	0	32	7.691	8	0	32	0.01	5	0	32	-16.783	32
2364			min	0	1	1.363	21	0	1	0.002	23	0	1	-94.685	4
2365		3	max	0	32	0	32	0	32	0.01	5	0	32	-22.377	32
2366			min	0	1	0	1	0	1	0.002	23	0	1	-126.246	4
2367		4	max	0	32	-1.363	32	0	32	0.01	5	0	32	-16.783	32
2368			min	0	1	-7.691	4	0	1	0.002	23	0	1	-94.685	4
2369		5	max	0	32	-2.726	32	0	32	0.01	5	0	32	0	32
2370			min	0	1	-15.382	4	0	1	0.002	23	0	1	0	1

Envelope Maximum Member Section Forces

	Member		Axial[k]	Loc[ft]	LC	y Shear[k]	Loc[ft]	LC	z Shear[k]	Loc[ft]	LC	Torque[k-ft]	Loc[ft]	LC	y-y Moment[k-ft]	Loc[ft]	LC	z-z Moment[k-ft]	Loc[ft]	LC
1	F1_G19	max	10.99	10.038	24	12.717	0	7	0.013	7.738	15	0.005	20.076	21	0.101	7.738	15	0	20.076	32
2		min	-10.99	7.947	14	-19.287	20.076	5	-0.011	0	21	-0.009	0	15	-0.083	7.738	21	-92.753	7.947	5
3	F1_G20	max	9.794	15.891	21	1.632	0	8	0	20.898	15	0.002	20.898	4	0.011	16.109	21	0	20.898	32
4		min	-9.794	10.449	15	-1.78	20.898	7	-0.002	16.109	21	0	16.109	23	0	16.109	15	-8.958	10.667	5
5	F1_G32	max	6.123	16.415	13	5.795	16.757	5	0	32.83	19	0	16.415	13	0	16.757	13	21.699	16.415	5

Envelope Maximum Member Section Forces (Continued)

	Member		Axial[k]	Loc[ft]	LC	y Shear[k]	Loc[ft]	LC	z Shear[k]	Loc[ft]	LC	Torque[k-ft]	Loc[ft]	LC	y-y Moment[k-ft]	Loc[ft]	LC	z-z Moment[k-ft]	Loc[ft]	LC
6		min	-6.126	16.757	13	-5.985	16.415	5	0	16.757	13	0	0	19	0	16.415	13	-9.825	5.814	7
7	F1_G158	max	16.124	25	15	5.125	12.76	5	0	25	13	0	12.5	13	0.001	12.5	13	17.815	12.5	5
8		min	-16.124	0	15	-5.286	12.5	5	0	12.76	19	0	12.5	19	-0.001	12.76	13	-4.801	21.094	7
9	(B-6)_L1	max	99.371	0	5	0	16	19	0	16	23	0.005	16	19	0.001	0	13	0	16	13
10		min	24.472	16	23	0	0	13	0	0	13	-0.005	0	13	-0.001	0	19	0	16	19
11	(D-7)_L1	max	21.888	0	7	0	16	13	0	16	13	0.005	16	19	0	0	19	0	16	19
12		min	4.838	16	21	0	0	19	0	0	19	-0.005	0	13	0	0	13	0	16	13
13	(B-7)_L1	max	78.513	0	7	0	16	13	0	16	13	0.005	16	19	0	16	13	0	16	19
14		min	17.723	16	21	0	0	19	0	0	19	-0.005	0	13	0	16	19	0	16	13
15	C16_L1	max	51.506	0	7	0	16	21	0.001	16	7	0.002	16	13	0.002	16	4	0.021	16	7
16		min	10.75	16	24	-0.001	0	8	0	0	13	0	0	1	-0.008	0	7	0	0	1
17	C17_L1	max	50.609	0	4	1.79	16	13	0.612	16	4	0.192	11.833	7	0.003	0	13	25.623	12	7
18		min	3.492	16	23	-2.135	0	7	-0.294	0	4	-0.556	12	4	-3.532	12	4	-4.695	16	21
19	C18_L1	max	81.892	0	4	3.559	16	21	0.648	16	4	1.076	12	4	0	16	23	20.305	12	13
20		min	11.517	16	21	-4.32	12	15	-0.213	0	4	0	12.167	1	-2.595	12	4	-17.353	12	15
21	(N-6)_L1	max	5.497	0	7	0	16	21	0	16	13	0.005	16	19	0.001	0	19	0.005	16	7
22		min	1.133	16	21	0	0	7	0	0	19	-0.005	0	13	-0.001	0	13	0	0	1
23	M12	max	0	26.319	32	0.156	0	15	0	26.319	32	0.01	26.319	7	0	26.319	32	0	26.319	32
24		min	-10.308	0	23	-0.156	26.319	11	0	0	1	0	0	1	0	0	1	-1.024	13.16	15
25	M13	max	0	26.319	32	0.156	0	9	0	26.319	32	0	0	32	0	26.319	32	0	26.319	32
26		min	-9.053	0	21	-0.156	26.319	17	0	0	1	-0.004	0	13	0	0	1	-1.024	13.16	9
27	M14	max	0	25.672	32	0	12.836	32	0	25.672	32	0	25.672	32	0	25.672	32	0	25.672	32
28		min	0	0	1	0	25.672	1	0	0	1	0	0	1	0	0	1	0	25.404	1
29	M15	max	0	25.672	32	0.104	0	21	0	25.672	32	0	25.672	23	0	25.672	32	0	25.672	32
30		min	-0.367	25.672	22	-0.104	25.672	22	0	0	1	-0.024	0	21	0	0	1	-0.669	12.836	21
31	M16	max	29.879	0	15	0.319	0	1	0	22.926	32	0	22.926	13	0	22.926	32	0	22.926	32
32		min	-23.349	22.926	21	-0.319	22.926	1	0	0	1	0	0	19	0	0	1	-1.828	11.463	1
33	M17	max	31.235	22.919	13	0.319	0	1	0	22.919	32	0	22.919	13	0	22.919	32	0	22.919	32
34		min	-22.606	0	23	-0.319	22.919	1	0	0	1	0	0	19	0	0	1	-1.826	11.46	1
35	M18	max	32.005	0	13	0.243	0	1	0	20.304	32	0.001	20.304	19	0	20.304	32	0	20.304	32
36		min	-24.957	20.304	23	-0.243	20.304	1	0	0	1	-0.001	0	13	0	0	1	-1.232	10.152	1
37	M19	max	30.834	20.304	15	0.243	0	1	0	20.304	32	0.001	20.304	19	0	20.304	32	0	20.304	32
38		min	-25.592	0	21	-0.243	20.304	1	0	0	1	-0.001	0	13	0	0	1	-1.232	10.152	1
39	F1_G1	max	0.004	4.507	15	29.578	34.414	7	0	39.33	15	0	14.339	13	0	29.497	15	144.689	34.414	7
40		min	-0.003	0	21	-33.473	34.004	7	0	29.497	15	0	0	19	0	34.414	15	-221.741	14.749	5
41	F1_G3	max	0.002	4.688	15	29.516	5.156	5	0	9.844	15	0	9.844	13	0	0	15	142.407	39.844	7
42		min	-0.002	35.156	15	-29.516	39.844	7	0	35.156	15	0	0	19	0	39.844	15	-147.163	22.5	4
43	F1_G5	max	0.004	39.33	24	33.473	5.326	5	0	4.916	13	0	39.33	13	0	4.916	13	144.689	4.916	5
44		min	-0.004	34.823	14	-29.578	4.916	5	0	5.326	13	0	34.823	19	0	9.832	13	-221.741	24.581	7
45	F1_G6	max	0.002	4.507	14	29.578	34.414	5	0	39.33	15	0	39.33	13	0	29.497	15	144.689	34.414	5
46		min	-0.003	29.497	14	-33.473	34.004	5	0	29.497	15	0	34.414	23	0	34.004	15	-221.741	14.749	7
47	F1_G8	max	0.002	9.844	14	29.516	5.156	5	0	9.844	15	0	34.688	13	0	0	15	142.41	39.844	7
48		min	-0.003	35.156	15	-29.517	39.844	7	0	35.156	15	0	30	23	0	39.844	15	-147.161	22.5	5
49	F1_G10	max	0.002	9.832	14	33.472	5.326	5	0	4.916	13	0	34.414	13	0	4.916	13	144.692	4.916	5
50		min	-0.002	34.823	14	-29.578	4.916	7	0	5.326	13	0	15.158	23	0	9.832	13	-221.743	24.581	7
51	F1_G11	max	0	5	7	1.069	0	7	0	4.062	23	0	4.062	21	0	4.062	23	0	5	32
52		min	0	4.115	21	-4.031	5	5	0	0	13	0	0	15	0	4.062	13	-3.685	4.062	7
53	F1_G12	max	0.005	16.08	21	7.965	0	4	0.003	9.045	19	-0.002	16.08	23	0.002	8.04	13	0	16.08	32
54		min	-0.007	14.237	15	-9.806	16.08	5	-0.004	8.208	13	-0.012	0	4	-0.002	9.045	13	-43.894	8.543	5
55	F1_G13	max	0.005	3	15	10.595	0	5	0.003	8.813	13	0.006	9	7	0.002	9	13	0	18	32
56		min	-0.003	0	21	-9.013	18	7	-0.003	8.063	19	-0.001	13.125	21	-0.001	9	19	-60.433	9	5
57	F1_G14	max	0	3.5	7	1.897	0	8	0	3.5	32	0.003	3.5	5	0	3.5	32	0	3.5	32
58		min	0	0	21	-1.905	3.5	7	0	0	1	0	0	23	0	0	1	-1.666	1.75	4
59	F1_G17	max	0.001	7.9	15	10.962	0	5	0	23.699	24	0.018	7.9	5	0	15.799	14	0	23.699	32
60		min	-0.001	15.799	15	-14.051	23.699	7	0	15.799	14	0.003	16.046	23	0	15.799	24	-88.003	13.578	7
61	F1_G18	max	0.757	19.964	15	38.632	0	7	0.028	19.964	21	-0.032	19.964	23	0.297	11.23	15	0	19.964	32
62		min	-0.339	11.23	21	-45.118	19.964	7	-0.034	11.23	15	-0.183	0	5	-0.244	11.23	21	-363.059	11.23	7
63	F1_G21	max	0	32.764	21	43.499	0	7	0	32.764	15	0.01	32.764	7	0	32.764	15	0	48.39	32

Envelope Maximum Member Section Forces (Continued)

	Member		Axial[k]	Loc[ft]	LC	y Shear[k]	Loc[ft]	LC	z Shear[k]	Loc[ft]	LC	Torque[k-ft]	Loc[ft]	LC	y-y Moment[k-ft]	Loc[ft]	LC	z-z Moment[k-ft]	Loc[ft]	LC
64		min	0	0	15	-64.596	48.39	7	0	0	21	-0.001	0	21	0	32.764	21	-858.19	32.764	7
65	F1_G22	max	0.12	25.39	7	22.062	0	7	0.109	25.39	7	0.108	34.33	7	0.029	25.39	7	0	34.33	32
66		min	-0.047	25.747	7	-23.743	25.747	5	-0.009	26.105	7	-0.02	24.675	7	-0.049	24.675	7	-207.64	15.377	7
67	F1_G23	max	0.009	32.07	21	37.832	0	5	0	17.705	22	-0.003	17.705	21	0.173	27.393	21	0	32.07	32
68		min	-0.006	16.703	22	-43.986	32.07	7	-0.037	27.393	21	-0.022	24.387	7	-0.001	27.393	16	-408.758	16.703	7
69	F1_G24	max	3.574	17.09	21	9.825	0	8	0	17.09	32	0	17.09	23	0	17.09	32	0	17.09	32
70		min	-4.339	0	15	-9.891	17.09	4	0	0	1	-0.001	0	5	0	0	1	-42.25	8.545	4
71	F1_G25	max	0	13.62	21	7.598	0	8	0	13.62	32	0.006	13.62	7	0	13.62	32	0	13.62	32
72		min	0	0	15	-7.651	13.62	4	0	0	1	0.001	0	21	0	0	1	-26.046	6.81	4
73	F1_G26	max	0	9.51	32	5.45	0	8	0	9.51	32	0.001	9.51	7	0	9.51	32	0	9.51	32
74		min	0	0	1	-5.517	9.51	4	0	0	1	0	0	21	0	0	1	-13.107	4.755	4
75	F1_G29	max	0	24.533	5	5.012	0	8	0	24.533	32	0	24.533	21	0	24.533	32	0	24.533	32
76		min	-1.145	0	21	-5.881	24.533	4	0	0	1	0	0	15	0	0	1	-33.457	12.777	4
77	F1_G31	max	0	42	22	52.858	0	7	0	8.312	15	0	42	13	0	8.312	15	0	42	32
78		min	0	8.75	16	-23.249	42	5	0	0	21	0	0	19	0	8.312	21	-434.998	8.75	5
79	F1_G33	max	0.022	27.66	14	18.017	0	5	0	9.22	16	0	27.66	13	0	9.22	16	0	27.66	32
80		min	-0.022	0	14	-18.018	27.66	7	0	0	22	0	0	19	0	9.22	22	-162.886	13.83	7
81	F1_G34	max	2.514	8.67	13	2.444	0	5	0.02	8.67	6	0	7.496	23	0	7.496	24	0	8.67	32
82		min	-1.804	7.586	23	-13.672	8.67	7	0	0	6	0	0	5	-0.022	7.586	6	-15.941	7.496	5
83	F1_G35	max	1.093	15.5	5	4.657	0	8	0	15.5	32	0	15.5	13	0	15.5	32	0	15.5	32
84		min	0.014	0	23	-4.657	15.5	4	0	0	1	0	0	23	0	0	1	-18.045	7.75	4
85	F1_G37	max	0.014	36.33	20	51.805	0	7	0	17.787	22	0.059	17.787	7	0	8.704	16	0	36.33	32
86		min	-0.014	8.704	16	-50.424	36.33	5	0	8.704	16	0.012	18.165	21	0	8.704	22	-609.75	17.787	7
87	F1_G38	max	4.562	36.33	13	51.39	0	7	0.153	36.33	6	0	18.165	13	0.01	28.004	6	0	36.33	32
88		min	-3.088	35.195	23	-66.828	36.33	5	-0.003	28.004	6	0	35.195	19	-0.173	35.195	6	-621.655	18.543	7
89	F1_G39	max	0	32.83	32	16.157	0	8	0	32.83	32	0.014	32.83	5	0	32.83	32	0	32.83	32
90		min	0	0	7	-16.157	32.83	4	0	0	1	0.003	0	23	0	0	1	-137.537	16.415	4
91	F1_G40	max	0.001	33.33	23	16.41	0	5	0	33.33	23	0.003	33.33	5	0	25.345	13	0	33.33	32
92		min	-0.001	25.345	13	-16.442	33.33	7	0	25.345	13	0.001	0	23	0	25.345	23	-141.862	16.665	5
93	F1_G41	max	0	32.83	15	16.157	0	8	0	32.83	32	-0.004	32.83	21	0	32.83	32	0	32.83	32
94		min	0	0	21	-16.157	32.83	4	0	0	1	-0.016	0	7	0	0	1	-137.537	16.415	4
95	F1_G42	max	0.002	4.948	14	19.723	0	7	0	19.792	15	0	4.948	13	0	19.792	15	0	25	32
96		min	-0.002	20.052	14	-19.723	25	5	0	15.104	21	0	0	19	0	19.792	21	-147.166	12.5	7
97	F1_G43	max	0.002	4.948	14	19.723	0	7	0	19.792	14	0	4.948	13	0	4.948	13	0	25	32
98		min	-0.002	20.052	14	-19.723	25	5	0	15.104	24	0	0	19	0	4.948	15	-147.166	12.5	5
99	F1_G44	max	0.002	4.948	14	19.723	0	5	0	25	24	0	25	13	0	20.052	14	0	25	32
100		min	-0.002	20.052	14	-19.723	25	7	0	20.052	14	0	10.156	23	0	20.052	24	-147.166	12.5	5
101	F1_G45	max	0.002	4.948	14	19.723	0	5	0	4.948	21	0	19.792	13	0	4.948	21	0	25	32
102		min	-0.002	20.052	14	-19.723	25	7	0	0	15	0	5.208	23	0	4.948	15	-147.162	12.5	5
103	F1_G46	max	0	32.83	32	4.702	0	8	0	32.83	32	0.001	32.83	5	0	32.83	32	0	32.83	32
104		min	0	0	1	-4.702	32.83	4	0	0	1	0	0	23	0	0	1	-38.593	16.415	4
105	F1_G47	max	0	33.33	32	4.774	0	8	0	33.33	32	0	33.33	23	0	33.33	32	0	33.33	32
106		min	0	0	1	-4.774	33.33	4	0	0	1	0	0	13	0	0	1	-39.778	16.665	4
107	F1_G48	max	0	32.83	32	4.702	0	8	0	32.83	32	0	32.83	21	0	32.83	32	0	32.83	32
108		min	0	0	1	-4.702	32.83	4	0	0	1	-0.001	0	7	0	0	1	-38.593	16.415	4
109	F1_G49	max	0	32.83	32	4.744	0	8	0	32.83	32	0	32.83	23	0	32.83	32	0	32.83	32
110		min	0	0	1	-4.744	32.83	4	0	0	1	-0.001	0	5	0	0	1	-38.936	16.415	4
111	F1_G50	max	0	33.33	32	4.816	0	8	0	33.33	32	0	33.33	21	0	33.33	32	0	33.33	32
112		min	0	0	1	-4.816	33.33	4	0	0	1	0	0	7	0	0	1	-40.131	16.665	4
113	F1_G51	max	0	32.83	32	4.744	0	8	0	32.83	32	0.001	32.83	7	0	32.83	32	0	32.83	32
114		min	0	0	1	-4.744	32.83	4	0	0	1	0	0	21	0	0	1	-38.936	16.415	4
115	F1_G52	max	0	32.83	32	4.744	0	8	0	32.83	32	0.003	32.83	7	0	32.83	32	0	32.83	32
116		min	0	0	15	-4.744	32.83	4	0	0	1	0.001	0	21	0	0	1	-38.936	16.415	4
117	F1_G53	max	0	33.33	32	4.816	0	8	0	33.33	32	0	33.33	7	0	33.33	32	0	33.33	32
118		min	0	0	1	-4.816	33.33	4	0	0	1	0	0	21	0	0	1	-40.131	16.665	4
119	F1_G54	max	0	32.83	32	4.744	0	8	0	32.83	32	0	32.83	23	0	32.83	32	0	32.83	32
120		min	0	0	1	-4.744	32.83	4	0	0	1	-0.001	0	5	0	0	1	-38.936	16.415	4
121	F1_G55	max	0	32.83	32	4.702	0	8	0	32.83	32	-0.001	32.83	22	0	32.83	32	0	32.83	32

Envelope Maximum Member Section Forces (Continued)

	Member		Axial[k]	Loc[ft]	LC	y Shear[k]	Loc[ft]	LC	z Shear[k]	Loc[ft]	LC	Torque[k-ft]	Loc[ft]	LC	y-y Moment[k-ft]	Loc[ft]	LC	z-z Moment[k-ft]	Loc[ft]	LC
122		min	0	0	1	-4.702	32.83	4	0	0	1	-0.003	0	8	0	0	1	-38.593	16.415	4
123	F1_G56	max	0	33.33	32	4.774	0	8	0	33.33	32	0	33.33	23	0	33.33	32	0	33.33	32
124		min	0	0	1	-4.774	33.33	4	0	0	1	0	0	5	0	0	1	-39.778	16.665	4
125	F1_G57	max	0	32.83	32	4.702	0	8	0	32.83	32	0.001	32.83	7	0	32.83	32	0	32.83	32
126		min	0	0	1	-4.702	32.83	4	0	0	1	0	0	21	0	0	1	-38.593	16.415	4
127	F1_J54	max	0	32.83	32	4.66	0	8	0	32.83	32	0.002	32.83	5	0	32.83	32	0	32.83	32
128		min	0	0	1	-4.66	32.83	4	0	0	1	0.001	0	23	0	0	1	-38.25	16.415	4
129	F1_J55	max	0	32.83	32	4.66	0	8	0	32.83	32	0.001	32.83	5	0	32.83	32	0	32.83	32
130		min	0	0	1	-4.66	32.83	4	0	0	1	0	0	23	0	0	1	-38.25	16.415	4
131	F1_J56	max	0	32.83	32	4.66	0	8	0	32.83	32	0	32.83	5	0	32.83	32	0	32.83	32
132		min	0	0	1	-4.66	32.83	4	0	0	1	0	0	23	0	0	1	-38.25	16.415	4
133	F1_J57	max	0	32.83	32	4.66	0	8	0	32.83	32	0	32.83	21	0	32.83	32	0	32.83	32
134		min	0	0	1	-4.66	32.83	4	0	0	1	-0.001	0	7	0	0	1	-38.25	16.415	4
135	F1_J58	max	0	32.83	32	4.66	0	8	0	32.83	32	0	32.83	21	0	32.83	32	0	32.83	32
136		min	0	0	1	-4.66	32.83	4	0	0	1	-0.001	0	7	0	0	1	-38.25	16.415	4
137	F1_J59	max	0	32.83	32	4.66	0	8	0	32.83	32	-0.001	32.83	21	0	32.83	32	0	32.83	32
138		min	0	0	1	-4.66	32.83	4	0	0	1	-0.001	0	7	0	0	1	-38.25	16.415	4
139	F1_J60	max	0	32.83	32	4.744	0	8	0	32.83	32	0	32.83	21	0	32.83	32	0	32.83	32
140		min	0	0	1	-4.744	32.83	4	0	0	1	-0.001	0	7	0	0	1	-38.936	16.415	4
141	F1_J61	max	0	32.83	32	4.744	0	8	0	32.83	32	0.001	32.83	7	0	32.83	32	0	32.83	32
142		min	0	0	1	-4.744	32.83	4	0	0	1	0	0	21	0	0	1	-38.936	16.415	4
143	F1_J62	max	0	32.83	32	4.744	0	8	0	32.83	32	0.001	32.83	7	0	32.83	32	0	32.83	32
144		min	0	0	1	-4.744	32.83	4	0	0	1	0	0	21	0	0	1	-38.936	16.415	4
145	F1_J63	max	0	32.83	32	4.744	0	8	0	32.83	32	0	32.83	23	0	32.83	32	0	32.83	32
146		min	0	0	1	-4.744	32.83	4	0	0	1	0	0	5	0	0	1	-38.936	16.415	4
147	F1_J64	max	0	32.83	32	4.744	0	8	0	32.83	32	0	32.83	23	0	32.83	32	0	32.83	32
148		min	0	0	1	-4.744	32.83	4	0	0	1	-0.001	0	5	0	0	1	-38.936	16.415	4
149	F1_J65	max	0	32.83	32	4.744	0	8	0	32.83	32	0.001	32.83	7	0	32.83	32	0	32.83	32
150		min	0	0	1	-4.744	32.83	4	0	0	1	0	0	21	0	0	1	-38.936	16.415	4
151	F1_J66	max	0	32.83	32	4.744	0	8	0	32.83	32	0.002	32.83	7	0	32.83	32	0	32.83	32
152		min	0	0	1	-4.744	32.83	4	0	0	1	0.001	0	21	0	0	1	-38.936	16.415	4
153	F1_J67	max	0	32.83	32	4.744	0	8	0	32.83	32	0.001	32.83	5	0	32.83	32	0	32.83	32
154		min	0	0	1	-4.744	32.83	4	0	0	1	0	0	23	0	0	1	-38.936	16.415	4
155	F1_J68	max	0	32.83	32	4.744	0	8	0	32.83	32	0	32.83	5	0	32.83	32	0	32.83	32
156		min	0	0	1	-4.744	32.83	4	0	0	1	0	0	23	0	0	1	-38.936	16.415	4
157	F1_J69	max	0	32.83	32	4.744	0	8	0	32.83	32	0	32.83	21	0	32.83	32	0	32.83	32
158		min	0	0	1	-4.744	32.83	4	0	0	1	0	0	7	0	0	1	-38.936	16.415	4
159	F1_J70	max	0	32.83	32	4.744	0	8	0	32.83	32	0	32.83	24	0	32.83	32	0	32.83	32
160		min	0	0	1	-4.744	32.83	4	0	0	1	-0.001	0	6	0	0	1	-38.936	16.415	4
161	F1_J71	max	0	32.83	32	4.744	0	8	0	32.83	32	-0.001	32.83	23	0	32.83	32	0	32.83	32
162		min	0	0	1	-4.744	32.83	4	0	0	1	-0.002	0	5	0	0	1	-38.936	16.415	4
163	F1_J72	max	0	32.83	32	4.744	0	8	0	32.83	32	0	32.83	23	0	32.83	32	0	32.83	32
164		min	0	0	1	-4.744	32.83	4	0	0	1	-0.001	0	5	0	0	1	-38.936	16.415	4
165	F1_J73	max	0	32.83	32	4.744	0	8	0	32.83	32	0.001	32.83	5	0	32.83	32	0	32.83	32
166		min	0	0	1	-4.744	32.83	4	0	0	1	0	0	23	0	0	1	-38.936	16.415	4
167	F1_J74	max	0	32.83	32	4.744	0	8	0	32.83	32	0	32.83	5	0	32.83	32	0	32.83	32
168		min	0	0	1	-4.744	32.83	4	0	0	1	0	0	23	0	0	1	-38.936	16.415	4
169	F1_J75	max	0	32.83	32	4.744	0	8	0	32.83	32	0	32.83	21	0	32.83	32	0	32.83	32
170		min	0	0	1	-4.744	32.83	4	0	0	1	-0.001	0	7	0	0	1	-38.936	16.415	4
171	F1_J76	max	0	32.83	32	4.744	0	8	0	32.83	32	0	32.83	21	0	32.83	32	0	32.83	32
172		min	0	0	1	-4.744	32.83	4	0	0	1	-0.001	0	7	0	0	1	-38.936	16.415	4
173	F1_J77	max	0	32.83	13	4.744	0	8	0	32.83	32	0.001	32.83	7	0	32.83	32	0	32.83	32
174		min	0	0	15	-4.744	32.83	4	0	0	1	0	0	21	0	0	1	-38.936	16.415	4
175	F1_J78	max	0	32.83	32	4.66	0	8	0	32.83	32	0.001	32.83	5	0	32.83	32	0	32.83	32
176		min	0	0	1	-4.66	32.83	4	0	0	1	0.001	0	22	0	0	1	-38.25	16.415	4
177	F1_J79	max	0	32.83	32	4.66	0	8	0	32.83	32	0.001	32.83	5	0	32.83	32	0	32.83	32
178		min	0	0	1	-4.66	32.83	4	0	0	1	0	0	23	0	0	1	-38.25	16.415	4
179	F1_J80	max	0	32.83	32	4.66	0	8	0	32.83	32	0.001	32.83	5	0	32.83	32	0	32.83	32

Envelope Maximum Member Section Forces (Continued)

	Member		Axial[k]	Loc[ft]	LC	y Shear[k]	Loc[ft]	LC	z Shear[k]	Loc[ft]	LC	Torque[k-ft]	Loc[ft]	LC	y-y Moment[k-ft]	Loc[ft]	LC	z-z Moment[k-ft]	Loc[ft]	LC
180		min	0	0	1	-4.66	32.83	4	0	0	1	0	0	23	0	0	1	-38.25	16.415	4
181	F1_J81	max	0	32.83	32	4.66	0	8	0	32.83	32	0	32.83	21	0	32.83	32	0	32.83	32
182		min	0	0	1	-4.66	32.83	4	0	0	1	0	0	7	0	0	1	-38.25	16.415	4
183	F1_J82	max	0	32.83	32	4.66	0	8	0	32.83	32	0	32.83	21	0	32.83	32	0	32.83	32
184		min	0	0	1	-4.66	32.83	4	0	0	1	-0.001	0	7	0	0	1	-38.25	16.415	4
185	F1_J83	max	0	32.83	32	4.66	0	8	0	32.83	32	-0.001	32.83	21	0	32.83	32	0	32.83	32
186		min	0	0	1	-4.66	32.83	4	0	0	1	-0.002	0	7	0	0	1	-38.25	16.415	4
187	F1_J84	max	0	33.33	32	4.731	0	8	0	33.33	32	0	33.33	23	0	33.33	32	0	33.33	32
188		min	0	0	1	-4.731	33.33	4	0	0	1	0	0	5	0	0	1	-39.424	16.665	4
189	F1_J85	max	0	33.33	32	4.731	0	8	0	33.33	32	0	33.33	23	0	33.33	32	0	33.33	32
190		min	0	0	1	-4.731	33.33	4	0	0	1	0	0	5	0	0	1	-39.424	16.665	4
191	F1_J86	max	0	33.33	32	4.731	0	8	0	33.33	32	0	33.33	23	0	33.33	32	0	33.33	32
192		min	0	0	1	-4.731	33.33	4	0	0	1	0	0	5	0	0	1	-39.424	16.665	4
193	F1_J87	max	0	33.33	32	4.731	0	8	0	33.33	32	0	33.33	23	0	33.33	32	0	33.33	32
194		min	0	0	1	-4.731	33.33	4	0	0	1	0	0	5	0	0	1	-39.424	16.665	4
195	F1_J88	max	0	33.33	32	4.731	0	8	0	33.33	32	0	33.33	23	0	33.33	32	0	33.33	32
196		min	0	0	1	-4.731	33.33	4	0	0	1	0	0	5	0	0	1	-39.424	16.665	4
197	F1_J89	max	0	33.33	32	4.731	0	8	0	33.33	32	0	33.33	23	0	33.33	32	0	33.33	32
198		min	0	0	1	-4.731	33.33	4	0	0	1	0	0	5	0	0	1	-39.424	16.665	4
199	F1_J90	max	0	33.33	32	4.816	0	8	0	33.33	32	0	33.33	7	0	33.33	32	0	33.33	32
200		min	0	0	1	-4.816	33.33	4	0	0	1	0	0	21	0	0	1	-40.131	16.665	4
201	F1_J91	max	0	33.33	32	4.816	0	8	0	33.33	32	0	33.33	5	0	33.33	32	0	33.33	32
202		min	0	0	1	-4.816	33.33	4	0	0	1	0	0	19	0	0	1	-40.131	16.665	4
203	F1_J92	max	0	33.33	32	4.816	0	8	0	33.33	32	0	33.33	5	0	33.33	32	0	33.33	32
204		min	0	0	1	-4.816	33.33	4	0	0	1	0	0	23	0	0	1	-40.131	16.665	4
205	F1_J93	max	0	33.33	32	4.816	0	8	0	33.33	32	0	33.33	5	0	33.33	32	0	33.33	32
206		min	0	0	1	-4.816	33.33	4	0	0	1	0	0	23	0	0	1	-40.131	16.665	4
207	F1_J94	max	0	33.33	32	4.816	0	8	0	33.33	32	0	33.33	5	0	33.33	32	0	33.33	32
208		min	0	0	1	-4.816	33.33	4	0	0	1	0	0	23	0	0	1	-40.131	16.665	4
209	F1_J95	max	0	33.33	32	4.816	0	8	0	33.33	32	0	33.33	23	0	33.33	32	0	33.33	32
210		min	0	0	1	-4.816	33.33	4	0	0	1	0	0	5	0	0	1	-40.131	16.665	4
211	F1_J96	max	0	33.33	32	4.816	0	8	0	33.33	32	0	33.33	21	0	33.33	32	0	33.33	32
212		min	0	0	1	-4.816	33.33	4	0	0	1	0	0	7	0	0	1	-40.131	16.665	4
213	F1_J97	max	0	33.33	32	4.816	0	8	0	33.33	32	0	33.33	21	0	33.33	32	0	33.33	32
214		min	0	0	1	-4.816	33.33	4	0	0	1	0	0	7	0	0	1	-40.131	16.665	4
215	F1_J98	max	0	33.33	32	4.816	0	8	0	33.33	32	0	33.33	21	0	33.33	32	0	33.33	32
216		min	0	0	1	-4.816	33.33	4	0	0	1	0	0	7	0	0	1	-40.131	16.665	4
217	F1_J99	max	0	33.33	32	4.816	0	8	0	33.33	32	0	33.33	32	0	33.33	32	0	33.33	32
218		min	0	0	1	-4.816	33.33	4	0	0	1	0	0	1	0	0	1	-40.131	16.665	4
219	F1_J100	max	0	33.33	32	4.816	0	8	0	33.33	32	0	33.33	7	0	33.33	32	0	33.33	32
220		min	0	0	1	-4.816	33.33	4	0	0	1	0	0	21	0	0	1	-40.131	16.665	4
221	F1_J101	max	0	33.33	32	4.816	0	8	0	33.33	32	0	33.33	7	0	33.33	32	0	33.33	32
222		min	0	0	1	-4.816	33.33	4	0	0	1	0	0	21	0	0	1	-40.131	16.665	4
223	F1_J102	max	0	33.33	32	4.816	0	8	0	33.33	32	0	33.33	23	0	33.33	32	0	33.33	32
224		min	0	0	1	-4.816	33.33	4	0	0	1	0	0	13	0	0	1	-40.131	16.665	4
225	F1_J103	max	0	33.33	32	4.816	0	8	0	33.33	32	0	33.33	13	0	33.33	32	0	33.33	32
226		min	0	0	1	-4.816	33.33	4	0	0	1	0	0	23	0	0	1	-40.131	16.665	4
227	F1_J104	max	0	33.33	32	4.816	0	8	0	33.33	32	0	33.33	13	0	33.33	32	0	33.33	32
228		min	0	0	1	-4.816	33.33	4	0	0	1	0	0	23	0	0	1	-40.131	16.665	4
229	F1_J105	max	0	33.33	32	4.816	0	8	0	33.33	32	0	33.33	13	0	33.33	32	0	33.33	32
230		min	0	0	1	-4.816	33.33	4	0	0	1	0	0	23	0	0	1	-40.131	16.665	4
231	F1_J106	max	0	33.33	32	4.816	0	8	0	33.33	32	0	33.33	13	0	33.33	32	0	33.33	32
232		min	0	0	1	-4.816	33.33	4	0	0	1	0	0	23	0	0	1	-40.131	16.665	4
233	F1_J107	max	0	33.33	32	4.816	0	8	0	33.33	32	0	33.33	21	0	33.33	32	0	33.33	32
234		min	0	0	1	-4.816	33.33	4	0	0	1	0	0	7	0	0	1	-40.131	16.665	4
235	F1_J108	max	0	33.33	32	4.731	0	8	0	33.33	32	0	33.33	23	0	33.33	32	0	33.33	32
236		min	0	0	1	-4.731	33.33	4	0	0	1	0	0	13	0	0	1	-39.424	16.665	4
237	F1_J109	max	0	33.33	32	4.731	0	8	0	33.33	32	0	33.33	23	0	33.33	32	0	33.33	32

Envelope Maximum Member Section Forces (Continued)

	Member		Axial[k]	Loc[ft]	LC	y Shear[k]	Loc[ft]	LC	z Shear[k]	Loc[ft]	LC	Torque[k-ft]	Loc[ft]	LC	y-y Moment[k-ft]	Loc[ft]	LC	z-z Moment[k-ft]	Loc[ft]	LC
238		min	0	0	1	-4.731	33.33	4	0	0	1	0	0	13	0	0	1	-39.424	16.665	4
239	F1_J110	max	0	33.33	32	4.731	0	8	0	33.33	32	0	33.33	23	0	33.33	32	0	33.33	32
240		min	0	0	1	-4.731	33.33	4	0	0	1	0	0	13	0	0	1	-39.424	16.665	4
241	F1_J111	max	0	33.33	32	4.731	0	8	0	33.33	32	0	33.33	23	0	33.33	32	0	33.33	32
242		min	0	0	1	-4.731	33.33	4	0	0	1	0	0	13	0	0	1	-39.424	16.665	4
243	F1_J112	max	0	33.33	32	4.731	0	8	0	33.33	32	0	33.33	23	0	33.33	32	0	33.33	32
244		min	0	0	1	-4.731	33.33	4	0	0	1	0	0	13	0	0	1	-39.424	16.665	4
245	F1_J113	max	0	33.33	32	4.731	0	8	0	33.33	32	0	33.33	23	0	33.33	32	0	33.33	32
246		min	0	0	1	-4.731	33.33	4	0	0	1	0	0	13	0	0	1	-39.424	16.665	4
247	F1_J114	max	0	32.83	32	4.66	0	8	0	32.83	32	-0.001	32.83	21	0	32.83	32	0	32.83	32
248		min	0	0	1	-4.66	32.83	4	0	0	1	-0.002	0	7	0	0	1	-38.25	16.415	4
249	F1_J115	max	0	32.83	32	4.66	0	8	0	32.83	32	0	32.83	21	0	32.83	32	0	32.83	32
250		min	0	0	1	-4.66	32.83	4	0	0	1	-0.001	0	7	0	0	1	-38.25	16.415	4
251	F1_J116	max	0	32.83	32	4.66	0	8	0	32.83	32	0	32.83	21	0	32.83	32	0	32.83	32
252		min	0	0	1	-4.66	32.83	4	0	0	1	0	0	7	0	0	1	-38.25	16.415	4
253	F1_J117	max	0	32.83	32	4.66	0	8	0	32.83	32	0.001	32.83	5	0	32.83	32	0	32.83	32
254		min	0	0	1	-4.66	32.83	4	0	0	1	0	0	23	0	0	1	-38.25	16.415	4
255	F1_J118	max	0	32.83	32	4.66	0	8	0	32.83	32	0.001	32.83	5	0	32.83	32	0	32.83	32
256		min	0	0	1	-4.66	32.83	4	0	0	1	0	0	23	0	0	1	-38.25	16.415	4
257	F1_J119	max	0	32.83	32	4.66	0	8	0	32.83	32	0.002	32.83	5	0	32.83	32	0	32.83	32
258		min	0	0	1	-4.66	32.83	4	0	0	1	0.001	0	23	0	0	1	-38.25	16.415	4
259	F1_J120	max	0	32.83	32	4.744	0	8	0	32.83	32	0.001	32.83	5	0	32.83	32	0	32.83	32
260		min	0	0	1	-4.744	32.83	4	0	0	1	0	0	23	0	0	1	-38.936	16.415	4
261	F1_J121	max	0	32.83	32	4.744	0	8	0	32.83	32	0	32.83	23	0	32.83	32	0	32.83	32
262		min	0	0	1	-4.744	32.83	4	0	0	1	-0.001	0	5	0	0	1	-38.936	16.415	4
263	F1_J122	max	0	32.83	32	4.744	0	8	0	32.83	32	0	32.83	23	0	32.83	32	0	32.83	32
264		min	0	0	1	-4.744	32.83	4	0	0	1	-0.001	0	5	0	0	1	-38.936	16.415	4
265	F1_J123	max	0	32.83	32	4.744	0	8	0	32.83	32	0	32.83	7	0	32.83	32	0	32.83	32
266		min	0	0	1	-4.744	32.83	4	0	0	1	0	0	21	0	0	1	-38.936	16.415	4
267	F1_J124	max	0	32.83	32	4.744	0	8	0	32.83	32	0.001	32.83	7	0	32.83	32	0	32.83	32
268		min	0	0	1	-4.744	32.83	4	0	0	1	0	0	21	0	0	1	-38.936	16.415	4
269	F1_J125	max	0	32.83	32	4.744	0	8	0	32.83	32	0	32.83	23	0	32.83	32	0	32.83	32
270		min	0	0	1	-4.744	32.83	4	0	0	1	-0.001	0	5	0	0	1	-38.936	16.415	4
271	F1_J126	max	0	32.83	32	4.744	0	8	0	32.83	32	-0.001	32.83	23	0	32.83	32	0	32.83	32
272		min	0	0	1	-4.744	32.83	4	0	0	1	-0.002	0	5	0	0	1	-38.936	16.415	4
273	F1_J127	max	0	32.83	32	4.744	0	8	0	32.83	32	0	32.83	23	0	32.83	32	0	32.83	32
274		min	0	0	1	-4.744	32.83	4	0	0	1	-0.001	0	5	0	0	1	-38.936	16.415	4
275	F1_J128	max	0	32.83	32	4.744	0	8	0	32.83	32	0	32.83	23	0	32.83	32	0	32.83	32
276		min	0	0	1	-4.744	32.83	4	0	0	1	0	0	5	0	0	1	-38.936	16.415	4
277	F1_J129	max	0	32.83	32	4.744	0	8	0	32.83	32	0	32.83	7	0	32.83	32	0	32.83	32
278		min	0	0	1	-4.744	32.83	4	0	0	1	0	0	21	0	0	1	-38.936	16.415	4
279	F1_J130	max	0	32.83	32	4.744	0	8	0	32.83	32	0.001	32.83	5	0	32.83	32	0	32.83	32
280		min	0	0	1	-4.744	32.83	4	0	0	1	0	0	23	0	0	1	-38.936	16.415	4
281	F1_J131	max	0	32.83	32	4.744	0	8	0	32.83	32	0.002	32.83	5	0	32.83	32	0	32.83	32
282		min	0	0	1	-4.744	32.83	4	0	0	1	0.001	0	23	0	0	1	-38.936	16.415	4
283	F1_J132	max	0	32.83	32	4.744	0	8	0	32.83	32	0.002	32.83	5	0	32.83	32	0	32.83	32
284		min	0	0	1	-4.744	32.83	4	0	0	1	0.001	0	23	0	0	1	-38.936	16.415	4
285	F1_J133	max	0	32.83	32	4.744	0	8	0	32.83	32	-0.001	32.83	21	0	32.83	32	0	32.83	32
286		min	0	0	1	-4.744	32.83	4	0	0	1	-0.003	0	4	0	0	1	-38.936	16.415	4
287	F1_J134	max	0	32.83	32	4.744	0	8	0	32.83	32	-0.001	32.83	21	0	32.83	32	0	32.83	32
288		min	0	0	1	-4.744	32.83	4	0	0	1	-0.002	0	4	0	0	1	-38.936	16.415	4
289	F1_J135	max	0	32.83	32	4.744	0	8	0	32.83	32	0.003	32.83	7	0	32.83	32	0	32.83	32
290		min	0	0	1	-4.744	32.83	4	0	0	1	0.001	0	21	0	0	1	-38.936	16.415	4
291	F1_J136	max	0	32.83	32	4.744	0	8	0	32.83	32	0.004	32.83	7	0	32.83	32	0	32.83	32
292		min	0	0	1	-4.744	32.83	4	0	0	1	0.001	0	21	0	0	1	-38.936	16.415	4
293	F1_J137	max	0	32.83	32	4.744	0	8	0	32.83	32	-0.001	32.83	23	0	32.83	32	0	32.83	32
294		min	0	0	1	-4.744	32.83	4	0	0	1	-0.003	0	5	0	0	1	-38.936	16.415	4
295	F1_J138	max	0	32.83	32	4.66	0	8	0	32.83	32	0.003	32.83	7	0	32.83	32	0	32.83	32

Envelope Maximum Member Section Forces (Continued)

	Member		Axial[k]	Loc[ft]	LC	y Shear[k]	Loc[ft]	LC	z Shear[k]	Loc[ft]	LC	Torque[k-ft]	Loc[ft]	LC	y-y Moment[k-ft]	Loc[ft]	LC	z-z Moment[k-ft]	Loc[ft]	LC
296		min	0	0	1	-4.66	32.83	4	0	0	1	0	0	21	0	0	1	-38.25	16.415	4
297	F1_J139	max	0	32.83	32	4.66	0	8	0	32.83	32	0.002	32.83	7	0	32.83	32	0	32.83	32
298		min	0	0	1	-4.66	32.83	4	0	0	1	0	0	21	0	0	1	-38.25	16.415	4
299	F1_J140	max	0	32.83	32	4.66	0	8	0	32.83	32	0.002	32.83	7	0	32.83	32	0	32.83	32
300		min	0	0	1	-4.66	32.83	4	0	0	1	0	0	21	0	0	1	-38.25	16.415	4
301	F1_J141	max	0	32.83	32	4.66	0	8	0	32.83	32	0.001	32.83	7	0	32.83	32	0	32.83	32
302		min	0	0	1	-4.66	32.83	4	0	0	1	0	0	21	0	0	1	-38.25	16.415	4
303	F1_J142	max	0	32.83	13	4.66	0	8	0	32.83	32	0.002	32.83	5	0	32.83	32	0	32.83	32
304		min	0	0	19	-4.66	32.83	4	0	0	1	0.001	0	23	0	0	1	-38.25	16.415	4
305	F1_J143	max	0	32.83	32	4.66	0	8	0	32.83	32	0.002	32.83	5	0	32.83	32	0	32.83	32
306		min	0	0	1	-4.66	32.83	4	0	0	1	0.001	0	23	0	0	1	-38.25	16.415	4
307	F1_J148	max	0	10.88	32	6.191	0	8	0	10.88	32	-0.003	10.88	21	0	10.88	32	0	10.88	32
308		min	0	0	1	-6.243	10.88	4	0	0	1	-0.01	0	7	0	0	1	-16.975	5.44	4
309	F1_J149	max	0	12.25	32	6.977	0	8	0	12.25	32	-0.002	12.25	21	0	12.25	32	0	12.25	32
310		min	0	0	1	-7.03	12.25	4	0	0	1	-0.011	0	7	0	0	1	-21.523	6.125	4
311	F1_J150	max	0	14.589	32	7.993	0	8	0	14.589	32	0.01	14.589	7	0	14.589	32	0	14.589	32
312		min	0	0	1	-8.02	14.589	4	0	0	1	0.002	0	21	0	0	1	-29.248	7.294	4
313	F1_J151	max	0	18.467	32	10.549	0	8	0	18.467	32	0.006	18.467	7	0	18.467	32	0	18.467	32
314		min	0	0	1	-10.603	18.467	4	0	0	1	0.001	0	21	0	0	1	-48.946	9.233	4
315	F1_J152	max	0	19.844	32	11.094	0	8	0	19.844	32	0.005	19.844	5	0	19.844	32	0	19.844	32
316		min	0	0	1	-11.271	19.844	4	0	0	1	0.001	0	22	0	0	1	-55.604	9.922	4
317	F1_J153	max	0	32.83	32	16.614	0	8	0	32.83	32	-0.003	32.83	21	0	32.83	32	0	32.83	32
318		min	0	0	1	-16.614	32.83	4	0	0	1	-0.013	0	7	0	0	1	-141.288	16.415	4
319	F1_J154	max	0	32.83	32	14.648	0	8	0	32.83	32	-0.001	32.83	21	0	32.83	32	0	32.83	32
320		min	0	0	1	-15.975	32.83	4	0	0	1	-0.009	0	7	0	0	1	-131.489	16.415	4
321	F1_J155	max	0	33.33	32	16.858	0	8	0	33.33	32	0.004	33.33	5	0	33.33	32	0	33.33	32
322		min	0	0	1	-16.858	33.33	4	0	0	1	0.001	0	23	0	0	1	-145.472	16.665	4
323	F1_J156	max	0	33.33	32	16.858	0	8	0	33.33	32	0.004	33.33	5	0	33.33	32	0	33.33	32
324		min	0	0	1	-16.858	33.33	4	0	0	1	0.001	0	23	0	0	1	-145.472	16.665	4
325	F1_J157	max	0	32.83	32	16.614	0	8	0	32.83	32	-0.002	32.83	21	0	32.83	32	0	32.83	32
326		min	0	0	1	-16.614	32.83	4	0	0	1	-0.007	0	7	0	0	1	-141.288	16.415	4
327	F1_J158	max	0	32.83	32	16.614	0	8	0	32.83	32	-0.001	32.83	21	0	32.83	32	0	32.83	32
328		min	0	0	1	-16.614	32.83	4	0	0	1	-0.007	0	7	0	0	1	-141.288	16.415	4
329	F1_G159	max	0	8.33	23	2.467	0	8	0	8.33	32	0	8.33	5	0	8.33	32	0	8.33	32
330		min	0	0	21	-2.467	8.33	4	0	0	1	0	0	23	0	0	1	-5.137	4.165	4
331	F1_G154	max	0.001	18.277	15	6.63	0	5	0	18.277	13	0.003	18.277	7	0	9.139	15	0	18.277	32
332		min	-0.001	0	15	-8.829	18.277	7	0	9.329	22	0	0	21	0	9.329	13	-45.92	9.139	5
333	F1_G155	max	0.031	3.434	7	3.689	0	6	0	6.34	21	0	3.434	7	0	3.5	7	0	6.34	32
334		min	-0.038	3.5	7	-3.689	6.34	4	0	3.5	7	0	3.5	21	0	3.434	7	-5.847	3.17	5
335	F1_G157	max	0	7.923	32	4.651	0	8	0	7.923	32	0	7.923	23	0	7.923	32	0	7.923	32
336		min	0	0	1	-4.618	7.923	4	0	0	1	-0.001	0	5	0	0	1	-9.211	3.962	4
337	F1_G160	max	0	8.67	21	0.073	0	1	0	8.67	32	0.005	8.67	7	0	8.67	32	0	8.67	32
338		min	0	0	15	-0.073	8.67	1	0	0	1	0.001	0	21	0	0	1	-0.158	4.335	1
339	(B-2)_L1	max	72.782	0	7	0	16	32	0	16	32	0.001	16	19	0	16	32	0	16	32
340		min	25.158	16	21	0	0	1	0	0	1	-0.002	0	13	0	0	1	0	0	1
341	(B-3)_L1	max	68.839	0	5	0	16	32	0	16	32	0.001	16	19	0	16	32	0	16	32
342		min	23.669	16	23	0	0	1	0	0	1	-0.002	0	13	0	0	1	0	0	1
343	(A-2)_L1	max	72.782	0	5	0	16	32	0	16	32	0.001	16	19	0	16	32	0	16	32
344		min	25.158	16	23	0	0	1	0	0	1	-0.002	0	13	0	0	1	0	0	1
345	(A-3)_L1	max	68.839	0	5	0	16	32	0	16	32	0.001	16	19	0	16	32	0	16	32
346		min	23.669	16	23	0	0	1	0	0	1	-0.002	0	13	0	0	1	0	0	1
347	(B-4)_L1	max	68.839	0	7	0	16	32	0	16	32	0.001	16	19	0	16	32	0	16	32
348		min	23.669	16	21	0	0	1	0	0	1	-0.002	0	13	0	0	1	0	0	1
349	(A-4)_L1	max	68.839	0	7	0	16	32	0	16	32	0.001	16	19	0	16	32	0	16	32
350		min	23.669	16	21	0	0	1	0	0	1	-0.002	0	13	0	0	1	0	0	1
351	(B-5)_L1	max	72.782	0	5	0	16	32	0	16	32	0.001	16	19	0	16	32	0	16	32
352		min	25.158	16	23	0	0	1	0	0	1	-0.002	0	13	0	0	1	0	0	1
353	(A-5)_L1	max	72.782	0	5	0	16	32	0	16	32	0.001	16	19	0	16	32	0	16	32

Envelope Maximum Member Section Forces (Continued)

	Member		Axial[k]	Loc[ft]	LC	y Shear[k]	Loc[ft]	LC	z Shear[k]	Loc[ft]	LC	Torque[k-ft]	Loc[ft]	LC	y-y Moment[k-ft]	Loc[ft]	LC	z-z Moment[k-ft]	Loc[ft]	LC
354		min	25.158	16	23	0	0	1	0	0	1	-0.002	0	13	0	0	1	0	0	1
355	(A-6)_L1	max	123.222	0	7	-0.001	16	21	0.001	16	7	0.005	16	19	0.01	16	7	0.059	16	7
356		min	30.391	16	21	-0.004	0	7	0	0	21	-0.005	0	13	-0.001	16	21	0	0	1
357	(M-D)_L1	max	37.152	0	5	0	16	23	0.001	16	5	0.005	16	19	0.014	16	5	0	16	13
358		min	7.948	16	23	0	0	13	0	0	23	-0.005	0	13	0	0	1	0	16	23
359	C15_L1	max	59.271	0	7	0	16	21	0	16	23	0.005	16	19	0	16	23	0	16	15
360		min	13.494	16	21	0	0	15	0	0	13	-0.005	0	13	0	16	13	0	16	21
361	C19_L1	max	106.543	0	4	16.319	11.833	7	1.37	16	4	0.973	16	7	0.006	16	7	0.198	16	5
362		min	9.434	16	21	-45.529	12	7	-0.425	0	4	-0.312	0	6	-5.476	12	4	-195.829	12	7
363	C20_L1	max	60.73	0	4	2.379	16	21	-0.129	11.833	21	0.928	11.833	7	4.159	12.167	4	48.523	12	5
364		min	3.316	16	23	-6.98	12	7	-1.085	12	4	-2.743	12	7	-7.367	12	4	-26.981	12	15
365	(J-C)_L1	max	14.426	0	5	0.001	16	5	0	16	5	0.005	16	19	0.003	16	5	0	0	32
366		min	4.056	16	23	0	0	23	0	0	23	-0.005	0	13	0	0	1	-0.012	16	5
367	(K-C)_L1	max	24.223	12	5	0.689	11.833	4	0.141	16	7	0.005	16	19	0.096	11.833	4	0.017	16	4
368		min	4.751	11.833	23	-2.071	12	4	0	0	21	-0.005	0	13	-0.562	12	7	-8.267	12	4
369	(C-5)_L1	max	41.426	12	7	0.42	11.833	5	0.222	16	4	0.005	16	19	0.095	11.833	19	0.752	12	23
370		min	9.417	11.833	21	-1.255	12	5	-0.013	0	13	-0.005	12	13	-0.882	12	4	-5.041	12	5
371	M193	max	-0.877	5.625	23	11.342	0	4	1.417	0	21	9.994	23.48	4	6.263	10.028	13	0	23.48	32
372		min	-5.699	0	5	-8.77	23.48	4	-1.42	0	15	1.188	0	23	-6.205	10.028	23	-64.283	11.495	4
373	M194	max	-0.403	19.96	21	6.605	0	4	2.495	0	21	-1.249	19.96	23	12.449	9.98	21	0	19.96	32
374		min	-2.061	0	4	-6.605	19.96	4	-2.495	0	23	-6.487	0	5	-12.449	9.98	23	-32.957	9.98	4
375	M196	max	-0.24	20.076	21	6.607	0	4	2.509	20.076	15	0.526	20.076	21	12.595	10.038	13	0	20.076	32
376		min	-1.2	0	4	-6.607	20.076	4	-2.509	20.076	17	-1.294	0	7	-12.595	10.038	19	-33.159	10.038	4
377	M197	max	-0.473	18.279	23	9.193	0	4	1.132	18.279	21	1.609	4.57	7	3.796	10.663	15	0	18.279	32
378		min	-4.399	13.709	5	-10.953	18.279	4	-1.133	18.279	15	-0.97	13.709	4	-3.796	10.663	21	-53.944	9.139	4
379	M198	max	5.06	10.78	21	32.446	9.545	4	0.989	10.78	13	0.863	9.432	7	6.506	10.78	5	105.321	9.545	4
380		min	-5.261	9.545	15	-4.307	9.432	4	-0.565	9.545	23	0.055	0	21	0	0	1	0	0	1
381	M199	max	5.662	3.886	13	6.676	4.072	7	1.739	2.591	7	0	2.591	32	4.505	2.591	7	66.502	4.072	7
382		min	-5.425	2.776	23	-21.762	3.886	4	-1.846	2.776	4	-0.397	4.072	7	-0.164	17.767	7	-13.939	17.767	4
383	M200	max	5.004	1.25	21	13.276	0	4	-0.175	1.25	21	-0.001	1.25	23	1.076	0	4	11.155	0	4
384		min	-5.006	0	15	4.354	1.25	24	-0.861	0	4	-0.017	0	5	0	1.25	1	-5.902	1.25	5
385	M201	max	2.93	1.25	5	25.34	0	7	-0.182	1.25	21	1.028	1.25	4	0.739	0	4	23.643	0	7
386		min	-0.816	0	23	-0.95	1.25	21	-0.912	0	4	0.213	0	21	-0.4	1.25	4	-7.98	1.25	7
387	M205	max	12.039	6.193	6	7.68	6.193	23	0	6.193	23	0	6.193	32	0.12	6.299	5	28.186	6.193	13
388		min	-6.616	6.299	17	-7.866	5.339	13	-0.293	6.299	4	-0.4	6.299	4	-1.043	10.25	4	-27.527	6.193	23
389	M212	max	0	1.25	15	10.051	0	13	0	1.25	21	0.126	1.25	7	0	1.25	13	12.952	1.25	23
390		min	0	0	21	-6.011	1.25	23	0	0	19	0.007	0	21	0	1.25	23	-16.519	1.25	13
391	M213	max	0.659	6.727	1	1.648	6.727	23	2.436	10.25	4	0	6.727	32	5.983	10.25	4	46.246	10.25	4
392		min	-15.264	6.833	5	-18.064	6.833	7	-0.114	0	5	-0.751	6.833	5	-2.445	6.833	5	-15.793	6.833	7
393	M216	max	0.081	21.912	17	8.662	0	4	2.519	16.206	13	1.876	21.912	19	7.129	16.206	13	40.539	16.206	4
394		min	-2.415	8.217	5	-13.06	16.206	4	-1.885	16.206	23	-5.512	0	4	-4.13	16.206	23	-33.844	7.989	4
395	M218	max	7.528	10.25	15	3.814	6.727	15	2.822	10.25	4	2.68	6.727	15	8.843	10.25	4	23.195	6.727	21
396		min	-5.41	6.833	21	-3.73	0	21	-0.017	0	7	-1.917	0	21	-1.062	6.833	5	-24.442	6.727	15
397	M220	max	0.114	21.912	5	0.377	5.706	1	2.368	5.706	21	1.2	5.478	21	6.554	5.706	15	1.013	5.706	1
398		min	-0.081	0	17	-0.253	21.912	5	-2.43	5.706	15	-1.403	0	15	-5.544	5.706	21	-0.961	14.38	5
399	M223	max	53.98	0	7	5.355	11.82	22	12.638	11.82	15	22.697	11.82	13	47.831	0	21	108.38	0	14
400		min	-1.005	22.25	21	-6.74	0	16	-5.311	0	21	-16.048	0	23	-107.478	0	15	-51.655	0	24
401	M224	max	4.3	10.25	5	5.646	6.193	15	1.757	10.25	18	7.912	10.25	5	18.675	5.339	8	27.731	5.339	15
402		min	-14.012	0	7	-2.292	6.299	21	-3.802	6.299	8	-3.143	5.339	23	-12.754	5.232	6	-11.259	5.339	21
403	M225	max	7.262	17.253	21	3.911	16.175	8	8.511	15.995	7	1.673	15.995	23	44.818	15.995	15	25.697	16.175	23
404		min	-10.648	16.175	15	-2.196	15.995	24	-17.665	16.175	5	-72.774	16.175	4	-25.808	0	15	-27.55	17.253	13
405	M229	max	34.512	0	5	8.636	1.854	14	4.6	6.953	23	33.865	1.854	14	47.594	2.086	21	102.853	0	14
406		min	-3.911	11.82	23	-7.251	0	24	-11.709	0	13	-25.95	0	24	-116.959	0	15	-57.718	0	24
407	M226	max	5.709	17.253	13	0.778	15.995	22	5.692	15.995	7	6.363	17.253	22	29.81	15.995	15	20.01	17.253	15
408		min	-4.15	16.175	23	-2.492	16.175	6	-21.859	16.175	7	-32.407	16.175	8	-22.065	0	15	-14.018	16.175	21
409	M227	max	0	35.002	32	4.954	0	15	5.918	35.002	6	0.331	35.002	23	32.407	0	8	31.274	19.324	13
410		min	0	0	1	-4.846	0	21	-7.541	0	8	-0.651	0	13	-46.332	19.324	6	-29.601	19.689	23
411	M228	max	0	35.002	32	5.003	0	15	9.611	35.002	4	1.247	35.002	21	72.774	0	4	28.79	19.689	13

Envelope Maximum Member Section Forces (Continued)

	Member		Axial[k]	Loc[ft]	LC	y Shear[k]	Loc[ft]	LC	z Shear[k]	Loc[ft]	LC	Torque[k-ft]	Loc[ft]	LC	y-y Moment[k-ft]	Loc[ft]	LC	z-z Moment[k-ft]	Loc[ft]	LC
412		min	0	0	1	-4.97	0	21	-13.769	0	4	-1.774	0	15	-69.134	20.782	4	-28.302	20.053	23
413	M221	max	10.847	12	5	7.753	16	15	3.648	16	5	5.068	16	13	10.472	12	4	3.874	15.5	15
414		min	-4.7	15.5	23	-7.23	15.5	21	-0.792	15.5	23	-3.448	15.5	23	-3.287	12.167	7	-3.617	15.5	21
415	M222	max	65.291	0	4	9.525	15.5	5	-0.015	15.333	23	0.488	16	21	1.297	15.5	4	61.466	12	4
416		min	2.955	16	21	-10.444	15.5	7	-2.594	15.667	4	-2.553	15.5	7	-7.682	12	4	-5.231	15.5	7
417	M230	max	17.279	7.6	5	20.765	6.413	7	2.12	7.6	5	3.005	7.6	7	4.393	7.6	4	92.027	6.413	4
418		min	0.455	0	23	-10.039	6.333	4	0.017	0	21	0.06	0	21	0	0	1	0	0	1
419	M217	max	6.845	1.27	21	6.166	0	17	3.3	1.27	5	1.128	1.27	21	2.878	0	23	13.37	1.27	15
420		min	-7.329	0	15	-6.569	1.27	15	-0.789	0	23	-1.712	0	15	-4.459	0	13	-12.884	1.27	21
421	M219	max	-0.013	1.26	21	15.936	0	5	0.656	1.26	21	1.418	1.26	5	1.781	0	7	5.839	0	15
422		min	-18.948	0	7	2.434	1.26	23	-1.115	0	15	-0.681	0	23	-0.571	0	21	-18.852	1.26	5
423	M232	max	0.812	10.25	7	0.054	10.25	23	0.099	10.25	7	0.509	10.25	15	0.336	10.25	7	1.9	10.25	13
424		min	-0.041	0	17	-0.076	0	13	-0.081	0	17	-0.377	0	21	-0.676	0	7	-1.876	10.25	19
425	M233	max	0.348	12.06	5	6.669	0	4	0.915	16.08	15	-0.805	16.08	23	3.645	8.04	21	0	16.08	32
426		min	-0.009	8.04	23	-5.463	16.08	4	-0.793	12.06	21	-2.989	4.02	4	-4.576	8.04	15	-30.749	8.04	4
427	M234	max	0.001	16.329	7	5.28	0	4	0	16.329	13	-0.001	16.329	23	0	8.164	23	0	16.329	32
428		min	-0.001	0	7	-7.239	16.329	5	0	8.335	23	-0.006	0	4	0	8.164	13	-31.396	8.164	4
429	M235	max	0.866	9	5	4.013	0	4	1.172	18	23	4.59	13.5	7	6.9	9	21	0	18	32
430		min	0.093	0	23	-5.307	18	4	-1.172	13.5	13	0.809	0	21	-6.9	9	15	-29.701	9	4
431	M236	max	1.834	22.66	5	2.111	0	4	1.646	22.66	23	0	22.66	32	10.892	11.33	21	0	22.66	32
432		min	0.211	0	23	-4.063	22.66	4	-1.713	16.995	13	0	0	1	-10.994	11.33	15	-29.277	11.33	4
433	M237	max	0.811	7.515	23	2.426	0	4	0	7.515	32	-0.457	7.515	21	0	7.515	32	0	7.515	32
434		min	-0.811	0	13	-2.426	7.515	5	0	0	1	-4.326	0	7	0	0	1	-4.558	3.757	4
435	M238	max	0.725	8.31	15	2.683	0	8	0	8.31	32	-0.82	8.31	21	0	8.31	32	0	8.31	32
436		min	-0.724	0	21	-2.683	8.31	4	0	0	1	-4.506	0	4	0	0	1	-5.573	4.155	4
437	M239	max	0.807	9.105	23	2.939	0	8	0	9.105	32	-1.213	9.105	21	0	9.105	32	0	9.105	32
438		min	-0.808	0	13	-2.939	9.105	4	0	0	1	-5.166	0	4	0	0	1	-6.691	4.553	4
439	M240	max	0.692	10.608	15	3.425	0	8	0	10.608	32	0.957	10.608	2	0	10.608	32	0	10.608	32
440		min	-0.679	0	21	-3.425	10.608	4	0	0	1	0.405	0	23	0	0	1	-9.082	5.304	4
441	M241	max	0.823	11.316	23	3.653	0	8	0	11.316	32	2.003	11.316	4	0	11.316	32	0	11.316	32
442		min	-0.935	0	13	-3.653	11.316	4	0	0	1	0.529	0	21	0	0	1	-10.335	5.658	4
443	M245	max	1.085	12.024	5	3.919	0	8	0	12.024	32	4.836	12.024	4	0	12.024	32	0	12.024	32
444		min	-0.246	0	23	-3.919	12.024	4	0	0	1	1.064	0	21	0	0	1	-11.779	6.012	4
445	M246	max	1.079	5.721	23	1.847	0	4	0	5.721	32	-3.233	5.721	23	0	5.721	32	0	5.721	32
446		min	-1.102	0	13	-1.847	5.721	5	0	0	1	-11.938	0	4	0	0	1	-2.642	2.861	4
447	M247	max	0.756	4.721	15	1.524	0	5	0	4.721	32	-1.965	4.721	23	0	4.721	32	0	4.721	32
448		min	-0.65	0	21	-1.524	4.721	7	0	0	1	-8.432	0	4	0	0	1	-1.799	2.36	4
449	M248	max	1.359	3.722	23	1.202	0	7	0	3.722	32	-0.615	3.722	23	0	3.722	32	0	3.722	32
450		min	-1.512	0	13	-1.202	3.722	4	0	0	1	-5.422	0	4	0	0	1	-1.118	1.861	7
451	M249	max	43.123	0	7	0.552	12	5	0.3	12	4	0.15	12	7	3.594	12	4	0	0	32
452		min	6.817	12	21	0.063	0	23	0.061	0	21	-0.018	0	21	0	0	1	-6.628	12	5
453	M250	max	2.681	6.72	13	11.84	0	4	-0.118	6.72	23	0	6.72	32	6.506	0	5	69.28	0	4
454		min	-2.679	0	23	1.789	6.72	21	-0.968	0	5	0	0	1	0	6.72	1	0.809	6.72	21
455	M251	max	0.423	1.167	13	12.425	4.375	4	0.077	4.229	19	13.671	1.167	4	3.459	1.312	5	94.881	4.375	4
456		min	-1.219	1.312	7	-30.435	4.229	7	-0.561	0	4	-3.594	1.312	4	-1.33	1.167	13	-6.7	1.312	19
457	M252	max	1.963	9.9	21	15.991	0	4	-0.103	9.9	23	0	9.9	32	5.124	0	5	118.499	0	4
458		min	-2.085	0	15	2.117	9.9	23	-0.518	0	5	0	0	1	0	9.9	1	-7.564	9.9	4
459	M253	max	0	4.92	32	2.863	0	8	0	4.92	32	0	4.92	21	0	4.92	32	0	4.92	32
460		min	0	0	1	-2.863	4.92	4	0	0	1	-0.001	0	4	0	0	1	-3.521	2.46	4
461	M255	max	5.061	4	7	0.508	0	5	-0.727	4	23	-0.052	4	21	0	0	32	0	0	32
462		min	0.67	0	21	0.099	4	23	-3.449	0	4	-0.234	0	7	-13.795	4	4	-2.029	4	5
463	M256	max	61.613	0	5	0.269	0	1	0	14.398	32	0.774	14.398	7	0	14.398	32	0	14.398	32
464		min	10.666	14.398	23	-0.269	14.398	1	0	0	1	0.185	0	21	0	0	1	-0.967	7.199	1
465	M254	max	2.738	17.253	13	1.89	17.253	22	7.533	17.253	7	1.773	17.253	23	35.099	17.253	15	19.199	17.253	15
466		min	-1.129	0	23	-2.29	17.253	16	-5.221	0	5	-7.657	0	5	-16.055	0	23	-14.633	17.253	21
467	M257	max	0	15.988	32	3.198	0	24	0	15.988	32	0	15.988	32	85.368	0	4	25.56	0	24
468		min	0	0	1	-3.198	0	14	-10.679	0	4	0	0	1	0	15.988	1	-25.56	0	18
469	M258	max	0	15.988	32	1.599	0	24	0	15.988	32	0	15.988	32	85.368	0	4	12.78	0	24

Envelope Maximum Member Section Forces (Continued)

	Member		Axial[k]	Loc[ft]	LC	y Shear[k]	Loc[ft]	LC	z Shear[k]	Loc[ft]	LC	Torque[k-ft]	Loc[ft]	LC	y-y Moment[k-ft]	Loc[ft]	LC	z-z Moment[k-ft]	Loc[ft]	LC
470		min	0	0	1	-1.599	0	14	-10.679	0	4	0	0	1	0	15.988	1	-12.78	0	22
471	M244	max	0	35.002	32	4.953	0	15	5.799	35.002	6	0.661	35.002	13	37.447	0	8	30.594	19.324	13
472		min	0	0	1	-4.875	0	21	-7.685	0	8	-0.421	0	23	-44.493	19.689	6	-29.384	19.689	23
473	M242	max	0	32.83	32	15.382	0	8	0	32.83	32	0.01	32.83	5	0	32.83	32	0	32.83	32
474		min	0	0	1	-15.382	32.83	4	0	0	1	0.002	0	23	0	0	1	-126.246	16.415	4

Envelope Member End Reactions

	Member	Member End		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
1	F1_G19	I	max	0.159	21	12.717	7	0.013	15	0.005	21	0	32	0	32
2			min	-0.354	15	1.596	21	-0.011	21	-0.009	15	0	1	0	1
3		J	max	0.006	14	-1.989	23	0	16	0.005	21	0	32	0	32
4			min	-0.006	24	-19.287	5	0	22	-0.008	15	0	1	0	1
5	F1_G20	I	max	5.206	19	1.632	8	0	32	0.002	4	0	32	0	32
6			min	-5.206	13	0.973	23	0	1	0	23	0	1	0	1
7		J	max	5.934	21	-1.084	24	0	15	0.002	4	0	32	0	32
8			min	-0.001	6	-1.78	7	-0.002	21	0	23	0	1	0	1
9	F1_G32	I	max	6.123	13	3.342	7	0	19	0	13	0	32	0	32
10			min	-5.235	19	0.739	21	0	13	0	19	0	1	0	1
11		J	max	5.238	19	-0.738	21	0	19	0	13	0	32	0	32
12			min	-6.126	13	-3.338	7	0	13	0	19	0	1	0	1
13	F1_G158	I	max	15.701	21	2.435	7	0	13	0	13	0	32	0	32
14			min	-16.124	15	0.564	21	0	19	0	19	0	1	0	1
15		J	max	16.124	15	-0.564	21	0	13	0	13	0	32	0	32
16			min	-15.701	21	-2.435	7	0	19	0	19	0	1	0	1
17	(B-6)_L1	I	max	99.371	5	0	19	0	23	0.005	19	0.001	13	0	32
18			min	24.872	23	0	13	0	13	-0.005	13	-0.001	19	0	1
19		J	max	98.839	5	0	19	0	23	0.005	19	0	21	0	13
20			min	24.472	23	0	13	0	13	-0.005	13	0	19	0	19
21	(D-7)_L1	I	max	21.888	7	0	13	0	13	0.005	19	0	19	0	32
22			min	5.238	21	0	19	0	19	-0.005	13	0	13	0	1
23		J	max	21.355	7	0	13	0	13	0.005	19	0	13	0	19
24			min	4.838	21	0	19	0	19	-0.005	13	0	19	0	13
25	(B-7)_L1	I	max	78.513	7	0	13	0	13	0.005	19	0	13	0	32
26			min	18.123	21	0	19	0	19	-0.005	13	0	19	0	1
27		J	max	77.981	7	0	13	0	13	0.005	19	0	13	0	19
28			min	17.723	21	0	19	0	19	-0.005	13	0	19	0	13
29	C16_L1	I	max	51.506	7	0	21	0.001	7	0.002	13	0	32	0.001	7
30			min	11.149	24	-0.001	8	0	13	0	1	-0.008	7	0	1
31		J	max	50.974	7	0	21	0.001	7	0.002	13	0.002	4	0.021	7
32			min	10.75	24	-0.001	8	0	13	0	1	-0.002	13	0.003	21
33	C17_L1	I	max	50.609	4	-0.33	21	-0.059	21	0.192	7	0.003	13	0	32
34			min	10.475	24	-2.135	7	-0.294	4	0.013	21	0	1	0	13
35		J	max	29.949	5	1.79	13	0.612	4	-0.11	23	-0.018	21	6.192	15
36			min	3.492	23	-1.593	23	0.119	21	-0.556	4	-0.112	4	-4.695	21
37	C18_L1	I	max	81.892	4	0.933	23	-0.04	21	1.076	4	0	32	0	32
38			min	16.615	21	-1.692	13	-0.213	4	0.219	21	0	21	-0.019	21
39		J	max	67.837	7	3.559	21	0.648	4	0	32	0	23	-0.024	23
40			min	11.517	21	-4.32	15	0.123	21	0	1	-0.001	5	-0.178	5
41	(N-6)_L1	I	max	5.497	7	0	21	0	13	0.005	19	0.001	19	0	32
42			min	1.532	21	0	7	0	19	-0.005	13	-0.001	13	0	1
43		J	max	4.965	7	0	21	0	13	0.005	19	0	15	0.005	7
44			min	1.133	21	0	7	0	19	-0.005	13	0	21	0.001	21
45	M12	I	max	0	32	0.156	15	0	32	0.01	7	0	32	0	32
46			min	-10.308	23	0	1	0	1	0	1	0	1	0	1
47		J	max	0	32	0	32	0	32	0.01	7	0	32	0	32
48			min	-10.129	23	-0.156	11	0	1	0	1	0	1	0	1
49	M13	I	max	0	32	0.156	9	0	32	0	32	0	32	0	32
50			min	-9.053	21	0	1	0	1	-0.004	13	0	1	0	1

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
51		J	max	0	32	0	32	0	32	0	32	0	32	0	32
52			min	-8.874	21	-0.156	17	0	1	-0.004	13	0	1	0	1
53	M14	I	max	0	32	0	32	0	32	0	32	0	32	0	32
54			min	0	1	0	1	0	1	0	1	0	1	0	1
55		J	max	0	32	0	32	0	32	0	32	0	32	0	32
56			min	0	1	0	1	0	1	0	1	0	1	0	1
57	M15	I	max	0	32	0.104	21	0	32	0	32	0	32	0	32
58			min	-0.201	22	0	1	0	1	-0.024	21	0	1	0	1
59		J	max	0	32	0	32	0	32	0	32	0	32	0	32
60			min	-0.367	22	-0.104	22	0	1	-0.024	21	0	1	0	1
61	M16	I	max	29.879	15	0.319	1	0	32	0	13	0	32	0	32
62			min	-22.949	21	0.205	23	0	1	0	19	0	1	0	1
63		J	max	29.346	15	-0.205	32	0	32	0	13	0	32	0	32
64			min	-23.349	21	-0.319	1	0	1	0	19	0	1	0	1
65	M17	I	max	30.702	13	0.319	1	0	32	0	13	0	32	0	32
66			min	-22.606	23	0.205	29	0	1	0	19	0	1	0	1
67		J	max	31.235	13	-0.205	23	0	32	0	13	0	32	0	32
68			min	-22.206	23	-0.319	1	0	1	0	19	0	1	0	1
69	M18	I	max	32.005	13	0.243	1	0	32	0.001	19	0	32	0	32
70			min	-24.557	23	0.156	23	0	1	-0.001	13	0	1	0	1
71		J	max	31.472	13	-0.156	21	0	32	0.001	19	0	32	0	32
72			min	-24.957	23	-0.243	1	0	1	-0.001	13	0	1	0	1
73	M19	I	max	30.302	15	0.243	1	0	32	0.001	19	0	32	0	32
74			min	-25.592	21	0.156	23	0	1	-0.001	13	0	1	0	1
75		J	max	30.834	15	-0.156	21	0	32	0.001	19	0	32	0	32
76			min	-25.193	21	-0.243	1	0	1	-0.001	13	0	1	0	1
77	F1_G1	I	max	0.004	15	24.918	5	0	15	0	13	0	32	0	32
78			min	-0.003	21	8.742	23	0	21	0	19	0	1	0	1
79		J	max	0.002	21	29.283	7	0	15	0	13	0	15	0.001	7
80			min	-0.003	15	10.054	21	0	21	0	19	0	21	0	21
81	F1_G3	I	max	0.002	15	-10.053	23	0	21	0	13	0	15	0.001	7
82			min	-0.001	21	-29.283	5	0	15	0	19	0	21	0	21
83		J	max	0.001	24	29.283	7	0	15	0	13	0	15	0.001	7
84			min	-0.001	14	10.053	21	0	21	0	19	0	21	0	21
85	F1_G5	I	max	0.003	15	-10.054	23	0	13	0	13	0	23	0.001	5
86			min	-0.001	21	-29.283	5	0	23	0	19	0	13	0	23
87		J	max	0.004	24	-8.742	21	0	13	0	13	0	32	0	32
88			min	-0.004	14	-24.918	7	0	19	0	19	0	1	0	1
89	F1_G6	I	max	0.002	14	24.918	7	0	15	0	13	0	32	0	32
90			min	-0.002	24	8.742	21	0	21	0	23	0	1	0	1
91		J	max	0.001	7	29.283	5	0	15	0	13	0	15	0.001	5
92			min	-0.001	21	10.054	23	0	21	0	23	0	21	0	23
93	F1_G8	I	max	0	21	-10.053	21	0	21	0	13	0	15	0.001	5
94			min	-0.001	7	-29.283	7	0	15	0	23	0	21	0	23
95		J	max	0.002	15	29.283	5	0	15	0	13	0	15	0.002	5
96			min	-0.001	21	10.053	23	0	21	0	23	0	21	0.001	23
97	F1_G10	I	max	0	15	-10.054	21	0	13	0	13	0	23	0.003	5
98			min	0	13	-29.283	7	0	23	0	23	0	13	0.001	23
99		J	max	0.002	24	-8.743	21	0	13	0	13	0	32	0	32
100			min	-0.002	14	-24.919	7	0	19	0	23	0	1	0	1
101	F1_G11	I	max	0	21	1.069	7	0	23	0	21	0	32	0	32
102			min	0	7	0.381	21	0	13	0	15	0	1	0	1
103		J	max	0	7	-1.378	23	0	23	0	21	0	32	0	32
104			min	0	21	-4.031	5	0	13	0	15	0	1	0	1
105	F1_G12	I	max	0.004	15	7.965	4	0	15	-0.002	23	0	32	0	32
106			min	-0.003	21	2.516	21	0	21	-0.012	4	0	1	0	1
107		J	max	0.005	21	-3.132	23	0	21	-0.002	23	0	32	0	32
108			min	-0.007	15	-9.806	5	0	15	-0.012	4	0	1	0	1

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
109	F1_G13	I	max	0.005	15	10.595	5	0	15	0.006	7	0	32	0	32
110			min	-0.003	21	3.237	23	0	21	-0.001	21	0	1	0	1
111		J	max	0.002	21	-2.707	21	0	13	0.006	7	0	32	0	32
112			min	-0.003	15	-9.013	7	0	23	-0.001	21	0	1	0	1
113	F1_G14	I	max	0	7	1.897	8	0	32	0.003	5	0	32	0	32
114			min	0	21	0.163	23	0	1	0	23	0	1	0	1
115		J	max	0	7	-0.169	21	0	32	0.003	5	0	32	0	32
116			min	0	21	-1.905	7	0	1	0	23	0	1	0	1
117	F1_G17	I	max	0.001	15	10.962	5	0	21	0.018	5	0	32	0	32
118			min	-0.001	21	1.297	23	0	15	0.004	23	0	1	0	1
119		J	max	0.001	21	-1.315	21	0	24	0.014	5	0	32	0	32
120			min	-0.001	15	-14.051	7	0	14	0.003	23	0	1	0	1
121	F1_G18	I	max	0.006	16	38.632	7	0	14	-0.033	23	0	32	0	32
122			min	-0.003	22	7.323	21	0	24	-0.183	5	0	1	0	1
123		J	max	0.757	15	-8.572	21	0.028	21	-0.032	23	0	32	0	32
124			min	-0.339	21	-45.118	7	-0.034	15	-0.18	5	0	1	0	1
125	F1_G21	I	max	0	21	43.499	7	0	15	0.01	7	0	32	0	32
126			min	0	15	9.628	21	0	21	-0.001	21	0	1	0	1
127		J	max	0	15	-13.369	21	0	13	0.01	7	0	32	0	32
128			min	0	21	-64.596	7	0	23	-0.001	21	0	1	0	1
129	F1_G22	I	max	0.004	15	22.062	7	0	23	-0.003	21	0	32	0	32
130			min	-0.003	21	5.489	21	0	13	-0.02	7	0	1	0	1
131		J	max	0.003	21	-3.155	21	0	13	0.108	7	0	32	0	32
132			min	-0.004	15	-15.803	7	0	19	0.027	21	0	1	0	1
133	F1_G23	I	max	0	32	37.832	5	0	21	-0.003	21	0	32	0	32
134			min	0	7	7.246	23	0	15	-0.022	7	0	1	0	1
135		J	max	0.009	21	-8.366	21	0	16	-0.003	21	0	32	0	32
136			min	0	7	-43.986	7	-0.037	21	-0.022	7	0	1	0	1
137	F1_G24	I	max	3.574	21	9.825	8	0	32	0	23	0	32	0	32
138			min	-4.339	15	1.216	21	0	1	-0.001	5	0	1	0	1
139		J	max	3.574	21	-1.266	32	0	32	0	23	0	32	0	32
140			min	-4.339	15	-9.891	4	0	1	-0.001	5	0	1	0	1
141	F1_G25	I	max	0	21	7.598	8	0	32	0.006	7	0	32	0	32
142			min	0	15	0.796	21	0	1	0.001	21	0	1	0	1
143		J	max	0	21	-0.835	32	0	32	0.006	7	0	32	0	32
144			min	0	15	-7.651	4	0	1	0.001	21	0	1	0	1
145	F1_G26	I	max	0	32	5.45	8	0	32	0.001	7	0	32	0	32
146			min	0	1	0.664	21	0	1	0	21	0	1	0	1
147		J	max	0	32	-0.714	32	0	32	0.001	7	0	32	0	32
148			min	0	1	-5.517	4	0	1	0	21	0	1	0	1
149	F1_G29	I	max	0	5	5.012	8	0	32	0	21	0	32	0	32
150			min	-1.145	21	1.153	21	0	1	0	15	0	1	0	1
151		J	max	0	5	-1.289	32	0	32	0	21	0	32	0	32
152			min	-1.145	21	-5.881	4	0	1	0	15	0	1	0	1
153	F1_G31	I	max	0	16	52.858	7	0	15	0	13	0	32	0	32
154			min	0	22	12.204	21	0	21	0	19	0	1	0	1
155		J	max	0	22	-5.629	23	0	21	0	13	0	32	0	32
156			min	0	16	-23.249	5	0	15	0	19	0	1	0	1
157	F1_G33	I	max	0.022	24	18.017	5	0	16	0	13	0	32	0	32
158			min	-0.022	14	4.1	23	0	22	0	19	0	1	0	1
159		J	max	0.022	14	-4.1	21	0	22	0	13	0	32	0	32
160			min	-0.022	24	-18.018	7	0	16	0	19	0	1	0	1
161	F1_G34	I	max	0.281	23	2.444	5	0	24	0	23	0	32	0	32
162			min	-0.392	13	0.539	23	0	6	0	5	0	1	0	1
163		J	max	2.514	13	-2.529	21	0.02	6	0	23	0	32	0	32
164			min	-1.804	23	-13.672	7	0.001	24	0	5	0	1	0	1
165	F1_G35	I	max	1.093	5	4.657	8	0	32	0	13	0	32	0	32
166			min	0.014	23	1.021	21	0	1	0	23	0	1	0	1

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
167		J	max	1.093	5	-1.021	32	0	32	0	13	0	32	0	32
168			min	0.014	23	-4.657	4	0	1	0	23	0	1	0	1
169	F1_G37	I	max	0.002	7	51.805	7	0	21	0.059	7	0	32	0	32
170			min	-0.001	21	11.499	21	0	15	0.012	21	0	1	0	1
171		J	max	0.014	20	-11.197	23	0	16	0.059	7	0	32	0	32
172			min	-0.014	14	-50.424	5	0	22	0.012	21	0	1	0	1
173	F1_G38	I	max	0.028	16	51.39	7	0	16	0	13	0	32	0	32
174			min	-0.028	22	11.355	21	0	22	0	19	0	1	0	1
175		J	max	4.562	13	-14.145	23	0.153	6	0	13	0	32	0	32
176			min	-3.088	23	-66.828	5	0.007	24	0	19	0	1	0	1
177	F1_G39	I	max	0	32	16.157	8	0	32	0.014	5	0	32	0	32
178			min	0	7	3.308	21	0	1	0.003	23	0	1	0	1
179		J	max	0	32	-3.308	32	0	32	0.014	5	0	32	0	32
180			min	0	7	-16.157	4	0	1	0.003	23	0	1	0	1
181	F1_G40	I	max	0	13	16.41	5	0	23	0.003	5	0	32	0	32
182			min	0	23	3.363	23	0	21	0.001	23	0	1	0	1
183		J	max	0.001	23	-3.387	21	0	23	0.003	5	0	32	0	32
184			min	-0.001	13	-16.442	7	0	13	0.001	23	0	1	0	1
185	F1_G41	I	max	0	15	16.157	8	0	32	-0.004	21	0	32	0	32
186			min	0	21	3.308	21	0	1	-0.016	7	0	1	0	1
187		J	max	0	15	-3.308	32	0	32	-0.004	21	0	32	0	32
188			min	0	21	-16.157	4	0	1	-0.016	7	0	1	0	1
189	F1_G42	I	max	0.002	14	19.723	7	0	21	0	13	0	32	0	32
190			min	-0.002	24	6.853	21	0	23	0	19	0	1	0	1
191		J	max	0.002	24	-6.853	23	0	15	0	13	0	32	0	32
192			min	-0.002	14	-19.723	5	0	21	0	19	0	1	0	1
193	F1_G43	I	max	0.002	14	19.723	7	0	13	0	13	0	32	0	32
194			min	-0.002	24	6.853	21	0	15	0	19	0	1	0	1
195		J	max	0.002	24	-6.853	23	0	13	0	13	0	32	0	32
196			min	-0.002	14	-19.723	5	0	23	0	19	0	1	0	1
197	F1_G44	I	max	0.002	14	19.723	5	0	21	0	13	0	32	0	32
198			min	-0.001	24	6.853	23	0	15	0	23	0	1	0	1
199		J	max	0.001	24	-6.853	21	0	24	0	13	0	32	0	32
200			min	-0.002	14	-19.723	7	0	14	0	23	0	1	0	1
201	F1_G45	I	max	0.002	14	19.723	5	0	21	0	13	0	32	0	32
202			min	-0.001	24	6.853	23	0	15	0	23	0	1	0	1
203		J	max	0.001	24	-6.853	21	0	21	0	13	0	32	0	32
204			min	-0.002	14	-19.723	7	0	15	0	23	0	1	0	1
205	F1_G46	I	max	0	32	4.702	8	0	32	0.001	5	0	32	0	32
206			min	0	1	1.576	21	0	1	0	23	0	1	0	1
207		J	max	0	32	-1.576	32	0	32	0.001	5	0	32	0	32
208			min	0	1	-4.702	4	0	1	0	23	0	1	0	1
209	F1_G47	I	max	0	32	4.774	8	0	32	0	23	0	32	0	32
210			min	0	1	1.6	21	0	1	0	13	0	1	0	1
211		J	max	0	32	-1.6	32	0	32	0	23	0	32	0	32
212			min	0	1	-4.774	4	0	1	0	13	0	1	0	1
213	F1_G48	I	max	0	32	4.702	8	0	32	0	21	0	32	0	32
214			min	0	1	1.576	21	0	1	-0.001	7	0	1	0	1
215		J	max	0	32	-1.576	32	0	32	0	21	0	32	0	32
216			min	0	1	-4.702	4	0	1	-0.001	7	0	1	0	1
217	F1_G49	I	max	0	32	4.744	8	0	32	0	23	0	32	0	32
218			min	0	1	1.588	21	0	1	-0.001	5	0	1	0	1
219		J	max	0	32	-1.588	32	0	32	0	23	0	32	0	32
220			min	0	1	-4.744	4	0	1	-0.001	5	0	1	0	1
221	F1_G50	I	max	0	32	4.816	8	0	32	0	21	0	32	0	32
222			min	0	1	1.612	21	0	1	0	7	0	1	0	1
223		J	max	0	32	-1.612	32	0	32	0	21	0	32	0	32
224			min	0	1	-4.816	4	0	1	0	7	0	1	0	1

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
225	F1_G51	I	max	0	32	4.744	8	0	32	0.001	7	0	32	0	32
226			min	0	1	1.588	21	0	1	0	21	0	1	0	1
227		J	max	0	32	-1.588	32	0	32	0.001	7	0	32	0	32
228			min	0	1	-4.744	4	0	1	0	21	0	1	0	1
229	F1_G52	I	max	0	32	4.744	8	0	32	0.003	7	0	32	0	32
230			min	0	15	1.588	21	0	1	0.001	21	0	1	0	1
231		J	max	0	32	-1.588	32	0	32	0.003	7	0	32	0	32
232			min	0	15	-4.744	4	0	1	0.001	21	0	1	0	1
233	F1_G53	I	max	0	32	4.816	8	0	32	0	7	0	32	0	32
234			min	0	1	1.612	21	0	1	0	21	0	1	0	1
235		J	max	0	32	-1.612	32	0	32	0	7	0	32	0	32
236			min	0	1	-4.816	4	0	1	0	21	0	1	0	1
237	F1_G54	I	max	0	32	4.744	8	0	32	0	23	0	32	0	32
238			min	0	1	1.588	21	0	1	-0.001	5	0	1	0	1
239		J	max	0	32	-1.588	32	0	32	0	23	0	32	0	32
240			min	0	1	-4.744	4	0	1	-0.001	5	0	1	0	1
241	F1_G55	I	max	0	32	4.702	8	0	32	-0.001	22	0	32	0	32
242			min	0	1	1.576	21	0	1	-0.003	8	0	1	0	1
243		J	max	0	32	-1.576	32	0	32	-0.001	22	0	32	0	32
244			min	0	1	-4.702	4	0	1	-0.003	8	0	1	0	1
245	F1_G56	I	max	0	32	4.774	8	0	32	0	23	0	32	0	32
246			min	0	1	1.6	21	0	1	0	5	0	1	0	1
247		J	max	0	32	-1.6	32	0	32	0	23	0	32	0	32
248			min	0	1	-4.774	4	0	1	0	5	0	1	0	1
249	F1_G57	I	max	0	32	4.702	8	0	32	0.001	7	0	32	0	32
250			min	0	1	1.576	21	0	1	0	21	0	1	0	1
251		J	max	0	32	-1.576	32	0	32	0.001	7	0	32	0	32
252			min	0	1	-4.702	4	0	1	0	21	0	1	0	1
253	F1_J54	I	max	0	32	4.66	8	0	32	0.002	5	0	32	0	32
254			min	0	1	1.563	21	0	1	0.001	23	0	1	0	1
255		J	max	0	32	-1.563	32	0	32	0.002	5	0	32	0	32
256			min	0	1	-4.66	4	0	1	0.001	23	0	1	0	1
257	F1_J55	I	max	0	32	4.66	8	0	32	0.001	5	0	32	0	32
258			min	0	1	1.563	21	0	1	0	23	0	1	0	1
259		J	max	0	32	-1.563	32	0	32	0.001	5	0	32	0	32
260			min	0	1	-4.66	4	0	1	0	23	0	1	0	1
261	F1_J56	I	max	0	32	4.66	8	0	32	0	5	0	32	0	32
262			min	0	1	1.563	21	0	1	0	23	0	1	0	1
263		J	max	0	32	-1.563	32	0	32	0	5	0	32	0	32
264			min	0	1	-4.66	4	0	1	0	23	0	1	0	1
265	F1_J57	I	max	0	32	4.66	8	0	32	0	21	0	32	0	32
266			min	0	1	1.563	21	0	1	-0.001	7	0	1	0	1
267		J	max	0	32	-1.563	32	0	32	0	21	0	32	0	32
268			min	0	1	-4.66	4	0	1	-0.001	7	0	1	0	1
269	F1_J58	I	max	0	32	4.66	8	0	32	0	21	0	32	0	32
270			min	0	1	1.563	21	0	1	-0.001	7	0	1	0	1
271		J	max	0	32	-1.563	32	0	32	0	21	0	32	0	32
272			min	0	1	-4.66	4	0	1	-0.001	7	0	1	0	1
273	F1_J59	I	max	0	32	4.66	8	0	32	-0.001	21	0	32	0	32
274			min	0	1	1.563	21	0	1	-0.001	7	0	1	0	1
275		J	max	0	32	-1.563	32	0	32	-0.001	21	0	32	0	32
276			min	0	1	-4.66	4	0	1	-0.001	7	0	1	0	1
277	F1_J60	I	max	0	32	4.744	8	0	32	0	21	0	32	0	32
278			min	0	1	1.588	21	0	1	-0.001	7	0	1	0	1
279		J	max	0	32	-1.588	32	0	32	0	21	0	32	0	32
280			min	0	1	-4.744	4	0	1	-0.001	7	0	1	0	1
281	F1_J61	I	max	0	32	4.744	8	0	32	0.001	7	0	32	0	32
282			min	0	1	1.588	21	0	1	0	21	0	1	0	1

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
283		J	max	0	32	-1.588	32	0	32	0.001	7	0	32	0	32
284			min	0	1	-4.744	4	0	1	0	21	0	1	0	1
285	F1_J62	I	max	0	32	4.744	8	0	32	0.001	7	0	32	0	32
286			min	0	1	1.588	21	0	1	0	21	0	1	0	1
287		J	max	0	32	-1.588	32	0	32	0.001	7	0	32	0	32
288			min	0	1	-4.744	4	0	1	0	21	0	1	0	1
289	F1_J63	I	max	0	32	4.744	8	0	32	0	23	0	32	0	32
290			min	0	1	1.588	21	0	1	0	5	0	1	0	1
291		J	max	0	32	-1.588	32	0	32	0	23	0	32	0	32
292			min	0	1	-4.744	4	0	1	0	5	0	1	0	1
293	F1_J64	I	max	0	32	4.744	8	0	32	0	23	0	32	0	32
294			min	0	1	1.588	21	0	1	-0.001	5	0	1	0	1
295		J	max	0	32	-1.588	32	0	32	0	23	0	32	0	32
296			min	0	1	-4.744	4	0	1	-0.001	5	0	1	0	1
297	F1_J65	I	max	0	32	4.744	8	0	32	0.001	7	0	32	0	32
298			min	0	1	1.588	21	0	1	0	21	0	1	0	1
299		J	max	0	32	-1.588	32	0	32	0.001	7	0	32	0	32
300			min	0	1	-4.744	4	0	1	0	21	0	1	0	1
301	F1_J66	I	max	0	32	4.744	8	0	32	0.002	7	0	32	0	32
302			min	0	1	1.588	21	0	1	0.001	21	0	1	0	1
303		J	max	0	32	-1.588	32	0	32	0.002	7	0	32	0	32
304			min	0	1	-4.744	4	0	1	0.001	21	0	1	0	1
305	F1_J67	I	max	0	32	4.744	8	0	32	0.001	5	0	32	0	32
306			min	0	1	1.588	21	0	1	0	23	0	1	0	1
307		J	max	0	32	-1.588	32	0	32	0.001	5	0	32	0	32
308			min	0	1	-4.744	4	0	1	0	23	0	1	0	1
309	F1_J68	I	max	0	32	4.744	8	0	32	0	5	0	32	0	32
310			min	0	1	1.588	21	0	1	0	23	0	1	0	1
311		J	max	0	32	-1.588	32	0	32	0	5	0	32	0	32
312			min	0	1	-4.744	4	0	1	0	23	0	1	0	1
313	F1_J69	I	max	0	32	4.744	8	0	32	0	21	0	32	0	32
314			min	0	1	1.588	21	0	1	0	7	0	1	0	1
315		J	max	0	32	-1.588	32	0	32	0	21	0	32	0	32
316			min	0	1	-4.744	4	0	1	0	7	0	1	0	1
317	F1_J70	I	max	0	32	4.744	8	0	32	0	24	0	32	0	32
318			min	0	1	1.588	21	0	1	-0.001	6	0	1	0	1
319		J	max	0	32	-1.588	32	0	32	0	24	0	32	0	32
320			min	0	1	-4.744	4	0	1	-0.001	6	0	1	0	1
321	F1_J71	I	max	0	32	4.744	8	0	32	-0.001	23	0	32	0	32
322			min	0	1	1.588	21	0	1	-0.002	5	0	1	0	1
323		J	max	0	32	-1.588	32	0	32	-0.001	23	0	32	0	32
324			min	0	1	-4.744	4	0	1	-0.002	5	0	1	0	1
325	F1_J72	I	max	0	32	4.744	8	0	32	0	23	0	32	0	32
326			min	0	1	1.588	21	0	1	-0.001	5	0	1	0	1
327		J	max	0	32	-1.588	32	0	32	0	23	0	32	0	32
328			min	0	1	-4.744	4	0	1	-0.001	5	0	1	0	1
329	F1_J73	I	max	0	32	4.744	8	0	32	0.001	5	0	32	0	32
330			min	0	1	1.588	21	0	1	0	23	0	1	0	1
331		J	max	0	32	-1.588	32	0	32	0.001	5	0	32	0	32
332			min	0	1	-4.744	4	0	1	0	23	0	1	0	1
333	F1_J74	I	max	0	32	4.744	8	0	32	0	5	0	32	0	32
334			min	0	1	1.588	21	0	1	0	23	0	1	0	1
335		J	max	0	32	-1.588	32	0	32	0	5	0	32	0	32
336			min	0	1	-4.744	4	0	1	0	23	0	1	0	1
337	F1_J75	I	max	0	32	4.744	8	0	32	0	21	0	32	0	32
338			min	0	1	1.588	21	0	1	-0.001	7	0	1	0	1
339		J	max	0	32	-1.588	32	0	32	0	21	0	32	0	32
340			min	0	1	-4.744	4	0	1	-0.001	7	0	1	0	1

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
341	F1_J76	I	max	0	32	4.744	8	0	32	0	21	0	32	0	32
342			min	0	1	1.588	21	0	1	-0.001	7	0	1	0	1
343		J	max	0	32	-1.588	32	0	32	0	21	0	32	0	32
344			min	0	1	-4.744	4	0	1	-0.001	7	0	1	0	1
345	F1_J77	I	max	0	13	4.744	8	0	32	0.001	7	0	32	0	32
346			min	0	15	1.588	21	0	1	0	21	0	1	0	1
347		J	max	0	13	-1.588	32	0	32	0.001	7	0	32	0	32
348			min	0	15	-4.744	4	0	1	0	21	0	1	0	1
349	F1_J78	I	max	0	32	4.66	8	0	32	0.001	5	0	32	0	32
350			min	0	1	1.563	21	0	1	0.001	22	0	1	0	1
351		J	max	0	32	-1.563	32	0	32	0.001	5	0	32	0	32
352			min	0	1	-4.66	4	0	1	0.001	22	0	1	0	1
353	F1_J79	I	max	0	32	4.66	8	0	32	0.001	5	0	32	0	32
354			min	0	1	1.563	21	0	1	0	23	0	1	0	1
355		J	max	0	32	-1.563	32	0	32	0.001	5	0	32	0	32
356			min	0	1	-4.66	4	0	1	0	23	0	1	0	1
357	F1_J80	I	max	0	32	4.66	8	0	32	0.001	5	0	32	0	32
358			min	0	1	1.563	21	0	1	0	23	0	1	0	1
359		J	max	0	32	-1.563	32	0	32	0.001	5	0	32	0	32
360			min	0	1	-4.66	4	0	1	0	23	0	1	0	1
361	F1_J81	I	max	0	32	4.66	8	0	32	0	21	0	32	0	32
362			min	0	1	1.563	21	0	1	0	7	0	1	0	1
363		J	max	0	32	-1.563	32	0	32	0	21	0	32	0	32
364			min	0	1	-4.66	4	0	1	0	7	0	1	0	1
365	F1_J82	I	max	0	32	4.66	8	0	32	0	21	0	32	0	32
366			min	0	1	1.563	21	0	1	-0.001	7	0	1	0	1
367		J	max	0	32	-1.563	32	0	32	0	21	0	32	0	32
368			min	0	1	-4.66	4	0	1	-0.001	7	0	1	0	1
369	F1_J83	I	max	0	32	4.66	8	0	32	-0.001	21	0	32	0	32
370			min	0	1	1.563	21	0	1	-0.002	7	0	1	0	1
371		J	max	0	32	-1.563	32	0	32	-0.001	21	0	32	0	32
372			min	0	1	-4.66	4	0	1	-0.002	7	0	1	0	1
373	F1_J84	I	max	0	32	4.731	8	0	32	0	23	0	32	0	32
374			min	0	1	1.587	21	0	1	0	5	0	1	0	1
375		J	max	0	32	-1.587	32	0	32	0	23	0	32	0	32
376			min	0	1	-4.731	4	0	1	0	5	0	1	0	1
377	F1_J85	I	max	0	32	4.731	8	0	32	0	23	0	32	0	32
378			min	0	1	1.587	21	0	1	0	5	0	1	0	1
379		J	max	0	32	-1.587	32	0	32	0	23	0	32	0	32
380			min	0	1	-4.731	4	0	1	0	5	0	1	0	1
381	F1_J86	I	max	0	32	4.731	8	0	32	0	23	0	32	0	32
382			min	0	1	1.587	21	0	1	0	5	0	1	0	1
383		J	max	0	32	-1.587	32	0	32	0	23	0	32	0	32
384			min	0	1	-4.731	4	0	1	0	5	0	1	0	1
385	F1_J87	I	max	0	32	4.731	8	0	32	0	23	0	32	0	32
386			min	0	1	1.587	21	0	1	0	5	0	1	0	1
387		J	max	0	32	-1.587	32	0	32	0	23	0	32	0	32
388			min	0	1	-4.731	4	0	1	0	5	0	1	0	1
389	F1_J88	I	max	0	32	4.731	8	0	32	0	23	0	32	0	32
390			min	0	1	1.587	21	0	1	0	5	0	1	0	1
391		J	max	0	32	-1.587	32	0	32	0	23	0	32	0	32
392			min	0	1	-4.731	4	0	1	0	5	0	1	0	1
393	F1_J89	I	max	0	32	4.731	8	0	32	0	23	0	32	0	32
394			min	0	1	1.587	21	0	1	0	5	0	1	0	1
395		J	max	0	32	-1.587	32	0	32	0	23	0	32	0	32
396			min	0	1	-4.731	4	0	1	0	5	0	1	0	1
397	F1_J90	I	max	0	32	4.816	8	0	32	0	7	0	32	0	32
398			min	0	1	1.612	21	0	1	0	21	0	1	0	1

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
399		J	max	0	32	-1.612	32	0	32	0	7	0	32	0	32
400			min	0	1	-4.816	4	0	1	0	21	0	1	0	1
401	F1_J91	I	max	0	32	4.816	8	0	32	0	5	0	32	0	32
402			min	0	1	1.612	21	0	1	0	19	0	1	0	1
403		J	max	0	32	-1.612	32	0	32	0	5	0	32	0	32
404			min	0	1	-4.816	4	0	1	0	19	0	1	0	1
405	F1_J92	I	max	0	32	4.816	8	0	32	0	5	0	32	0	32
406			min	0	1	1.612	21	0	1	0	23	0	1	0	1
407		J	max	0	32	-1.612	32	0	32	0	5	0	32	0	32
408			min	0	1	-4.816	4	0	1	0	23	0	1	0	1
409	F1_J93	I	max	0	32	4.816	8	0	32	0	5	0	32	0	32
410			min	0	1	1.612	21	0	1	0	23	0	1	0	1
411		J	max	0	32	-1.612	32	0	32	0	5	0	32	0	32
412			min	0	1	-4.816	4	0	1	0	23	0	1	0	1
413	F1_J94	I	max	0	32	4.816	8	0	32	0	5	0	32	0	32
414			min	0	1	1.612	21	0	1	0	23	0	1	0	1
415		J	max	0	32	-1.612	32	0	32	0	5	0	32	0	32
416			min	0	1	-4.816	4	0	1	0	23	0	1	0	1
417	F1_J95	I	max	0	32	4.816	8	0	32	0	23	0	32	0	32
418			min	0	1	1.612	21	0	1	0	5	0	1	0	1
419		J	max	0	32	-1.612	32	0	32	0	23	0	32	0	32
420			min	0	1	-4.816	4	0	1	0	5	0	1	0	1
421	F1_J96	I	max	0	32	4.816	8	0	32	0	21	0	32	0	32
422			min	0	1	1.612	21	0	1	0	7	0	1	0	1
423		J	max	0	32	-1.612	32	0	32	0	21	0	32	0	32
424			min	0	1	-4.816	4	0	1	0	7	0	1	0	1
425	F1_J97	I	max	0	32	4.816	8	0	32	0	21	0	32	0	32
426			min	0	1	1.612	21	0	1	0	7	0	1	0	1
427		J	max	0	32	-1.612	32	0	32	0	21	0	32	0	32
428			min	0	1	-4.816	4	0	1	0	7	0	1	0	1
429	F1_J98	I	max	0	32	4.816	8	0	32	0	21	0	32	0	32
430			min	0	1	1.612	21	0	1	0	7	0	1	0	1
431		J	max	0	32	-1.612	32	0	32	0	21	0	32	0	32
432			min	0	1	-4.816	4	0	1	0	7	0	1	0	1
433	F1_J99	I	max	0	32	4.816	8	0	32	0	32	0	32	0	32
434			min	0	1	1.612	21	0	1	0	1	0	1	0	1
435		J	max	0	32	-1.612	32	0	32	0	32	0	32	0	32
436			min	0	1	-4.816	4	0	1	0	1	0	1	0	1
437	F1_J100	I	max	0	32	4.816	8	0	32	0	7	0	32	0	32
438			min	0	1	1.612	21	0	1	0	21	0	1	0	1
439		J	max	0	32	-1.612	32	0	32	0	7	0	32	0	32
440			min	0	1	-4.816	4	0	1	0	21	0	1	0	1
441	F1_J101	I	max	0	32	4.816	8	0	32	0	7	0	32	0	32
442			min	0	1	1.612	21	0	1	0	21	0	1	0	1
443		J	max	0	32	-1.612	32	0	32	0	7	0	32	0	32
444			min	0	1	-4.816	4	0	1	0	21	0	1	0	1
445	F1_J102	I	max	0	32	4.816	8	0	32	0	23	0	32	0	32
446			min	0	1	1.612	21	0	1	0	13	0	1	0	1
447		J	max	0	32	-1.612	32	0	32	0	23	0	32	0	32
448			min	0	1	-4.816	4	0	1	0	13	0	1	0	1
449	F1_J103	I	max	0	32	4.816	8	0	32	0	13	0	32	0	32
450			min	0	1	1.612	21	0	1	0	23	0	1	0	1
451		J	max	0	32	-1.612	32	0	32	0	13	0	32	0	32
452			min	0	1	-4.816	4	0	1	0	23	0	1	0	1
453	F1_J104	I	max	0	32	4.816	8	0	32	0	13	0	32	0	32
454			min	0	1	1.612	21	0	1	0	23	0	1	0	1
455		J	max	0	32	-1.612	32	0	32	0	13	0	32	0	32
456			min	0	1	-4.816	4	0	1	0	23	0	1	0	1

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
457	F1_J105	I	max	0	32	4.816	8	0	32	0	13	0	32	0	32
458			min	0	1	1.612	21	0	1	0	23	0	1	0	1
459		J	max	0	32	-1.612	32	0	32	0	13	0	32	0	32
460			min	0	1	-4.816	4	0	1	0	23	0	1	0	1
461	F1_J106	I	max	0	32	4.816	8	0	32	0	13	0	32	0	32
462			min	0	1	1.612	21	0	1	0	23	0	1	0	1
463		J	max	0	32	-1.612	32	0	32	0	13	0	32	0	32
464			min	0	1	-4.816	4	0	1	0	23	0	1	0	1
465	F1_J107	I	max	0	32	4.816	8	0	32	0	21	0	32	0	32
466			min	0	1	1.612	21	0	1	0	7	0	1	0	1
467		J	max	0	32	-1.612	32	0	32	0	21	0	32	0	32
468			min	0	1	-4.816	4	0	1	0	7	0	1	0	1
469	F1_J108	I	max	0	32	4.731	8	0	32	0	23	0	32	0	32
470			min	0	1	1.587	21	0	1	0	13	0	1	0	1
471		J	max	0	32	-1.587	32	0	32	0	23	0	32	0	32
472			min	0	1	-4.731	4	0	1	0	13	0	1	0	1
473	F1_J109	I	max	0	32	4.731	8	0	32	0	23	0	32	0	32
474			min	0	1	1.587	21	0	1	0	13	0	1	0	1
475		J	max	0	32	-1.587	32	0	32	0	23	0	32	0	32
476			min	0	1	-4.731	4	0	1	0	13	0	1	0	1
477	F1_J110	I	max	0	32	4.731	8	0	32	0	23	0	32	0	32
478			min	0	1	1.587	21	0	1	0	13	0	1	0	1
479		J	max	0	32	-1.587	32	0	32	0	23	0	32	0	32
480			min	0	1	-4.731	4	0	1	0	13	0	1	0	1
481	F1_J111	I	max	0	32	4.731	8	0	32	0	23	0	32	0	32
482			min	0	1	1.587	21	0	1	0	13	0	1	0	1
483		J	max	0	32	-1.587	32	0	32	0	23	0	32	0	32
484			min	0	1	-4.731	4	0	1	0	13	0	1	0	1
485	F1_J112	I	max	0	32	4.731	8	0	32	0	23	0	32	0	32
486			min	0	1	1.587	21	0	1	0	13	0	1	0	1
487		J	max	0	32	-1.587	32	0	32	0	23	0	32	0	32
488			min	0	1	-4.731	4	0	1	0	13	0	1	0	1
489	F1_J113	I	max	0	32	4.731	8	0	32	0	23	0	32	0	32
490			min	0	1	1.587	21	0	1	0	13	0	1	0	1
491		J	max	0	32	-1.587	32	0	32	0	23	0	32	0	32
492			min	0	1	-4.731	4	0	1	0	13	0	1	0	1
493	F1_J114	I	max	0	32	4.66	8	0	32	-0.001	21	0	32	0	32
494			min	0	1	1.563	21	0	1	-0.002	7	0	1	0	1
495		J	max	0	32	-1.563	32	0	32	-0.001	21	0	32	0	32
496			min	0	1	-4.66	4	0	1	-0.002	7	0	1	0	1
497	F1_J115	I	max	0	32	4.66	8	0	32	0	21	0	32	0	32
498			min	0	1	1.563	21	0	1	-0.001	7	0	1	0	1
499		J	max	0	32	-1.563	32	0	32	0	21	0	32	0	32
500			min	0	1	-4.66	4	0	1	-0.001	7	0	1	0	1
501	F1_J116	I	max	0	32	4.66	8	0	32	0	21	0	32	0	32
502			min	0	1	1.563	21	0	1	0	7	0	1	0	1
503		J	max	0	32	-1.563	32	0	32	0	21	0	32	0	32
504			min	0	1	-4.66	4	0	1	0	7	0	1	0	1
505	F1_J117	I	max	0	32	4.66	8	0	32	0.001	5	0	32	0	32
506			min	0	1	1.563	21	0	1	0	23	0	1	0	1
507		J	max	0	32	-1.563	32	0	32	0.001	5	0	32	0	32
508			min	0	1	-4.66	4	0	1	0	23	0	1	0	1
509	F1_J118	I	max	0	32	4.66	8	0	32	0.001	5	0	32	0	32
510			min	0	1	1.563	21	0	1	0	23	0	1	0	1
511		J	max	0	32	-1.563	32	0	32	0.001	5	0	32	0	32
512			min	0	1	-4.66	4	0	1	0	23	0	1	0	1
513	F1_J119	I	max	0	32	4.66	8	0	32	0.002	5	0	32	0	32
514			min	0	1	1.563	21	0	1	0.001	23	0	1	0	1

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
515		J	max	0	32	-1.563	32	0	32	0.002	5	0	32	0	32
516			min	0	1	-4.66	4	0	1	0.001	23	0	1	0	1
517	F1_J120	I	max	0	32	4.744	8	0	32	0.001	5	0	32	0	32
518			min	0	1	1.588	21	0	1	0	23	0	1	0	1
519		J	max	0	32	-1.588	32	0	32	0.001	5	0	32	0	32
520			min	0	1	-4.744	4	0	1	0	23	0	1	0	1
521	F1_J121	I	max	0	32	4.744	8	0	32	0	23	0	32	0	32
522			min	0	1	1.588	21	0	1	-0.001	5	0	1	0	1
523		J	max	0	32	-1.588	32	0	32	0	23	0	32	0	32
524			min	0	1	-4.744	4	0	1	-0.001	5	0	1	0	1
525	F1_J122	I	max	0	32	4.744	8	0	32	0	23	0	32	0	32
526			min	0	1	1.588	21	0	1	-0.001	5	0	1	0	1
527		J	max	0	32	-1.588	32	0	32	0	23	0	32	0	32
528			min	0	1	-4.744	4	0	1	-0.001	5	0	1	0	1
529	F1_J123	I	max	0	32	4.744	8	0	32	0	7	0	32	0	32
530			min	0	1	1.588	21	0	1	0	21	0	1	0	1
531		J	max	0	32	-1.588	32	0	32	0	7	0	32	0	32
532			min	0	1	-4.744	4	0	1	0	21	0	1	0	1
533	F1_J124	I	max	0	32	4.744	8	0	32	0.001	7	0	32	0	32
534			min	0	1	1.588	21	0	1	0	21	0	1	0	1
535		J	max	0	32	-1.588	32	0	32	0.001	7	0	32	0	32
536			min	0	1	-4.744	4	0	1	0	21	0	1	0	1
537	F1_J125	I	max	0	32	4.744	8	0	32	0	23	0	32	0	32
538			min	0	1	1.588	21	0	1	-0.001	5	0	1	0	1
539		J	max	0	32	-1.588	32	0	32	0	23	0	32	0	32
540			min	0	1	-4.744	4	0	1	-0.001	5	0	1	0	1
541	F1_J126	I	max	0	32	4.744	8	0	32	-0.001	23	0	32	0	32
542			min	0	1	1.588	21	0	1	-0.002	5	0	1	0	1
543		J	max	0	32	-1.588	32	0	32	-0.001	23	0	32	0	32
544			min	0	1	-4.744	4	0	1	-0.002	5	0	1	0	1
545	F1_J127	I	max	0	32	4.744	8	0	32	0	23	0	32	0	32
546			min	0	1	1.588	21	0	1	-0.001	5	0	1	0	1
547		J	max	0	32	-1.588	32	0	32	0	23	0	32	0	32
548			min	0	1	-4.744	4	0	1	-0.001	5	0	1	0	1
549	F1_J128	I	max	0	32	4.744	8	0	32	0	23	0	32	0	32
550			min	0	1	1.588	21	0	1	0	5	0	1	0	1
551		J	max	0	32	-1.588	32	0	32	0	23	0	32	0	32
552			min	0	1	-4.744	4	0	1	0	5	0	1	0	1
553	F1_J129	I	max	0	32	4.744	8	0	32	0	7	0	32	0	32
554			min	0	1	1.588	21	0	1	0	21	0	1	0	1
555		J	max	0	32	-1.588	32	0	32	0	7	0	32	0	32
556			min	0	1	-4.744	4	0	1	0	21	0	1	0	1
557	F1_J130	I	max	0	32	4.744	8	0	32	0.001	5	0	32	0	32
558			min	0	1	1.588	21	0	1	0	23	0	1	0	1
559		J	max	0	32	-1.588	32	0	32	0.001	5	0	32	0	32
560			min	0	1	-4.744	4	0	1	0	23	0	1	0	1
561	F1_J131	I	max	0	32	4.744	8	0	32	0.002	5	0	32	0	32
562			min	0	1	1.588	21	0	1	0.001	23	0	1	0	1
563		J	max	0	32	-1.588	32	0	32	0.002	5	0	32	0	32
564			min	0	1	-4.744	4	0	1	0.001	23	0	1	0	1
565	F1_J132	I	max	0	32	4.744	8	0	32	0.002	5	0	32	0	32
566			min	0	1	1.588	21	0	1	0.001	23	0	1	0	1
567		J	max	0	32	-1.588	32	0	32	0.002	5	0	32	0	32
568			min	0	1	-4.744	4	0	1	0.001	23	0	1	0	1
569	F1_J133	I	max	0	32	4.744	8	0	32	-0.001	21	0	32	0	32
570			min	0	1	1.588	21	0	1	-0.003	4	0	1	0	1
571		J	max	0	32	-1.588	32	0	32	-0.001	21	0	32	0	32
572			min	0	1	-4.744	4	0	1	-0.003	4	0	1	0	1

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
573	F1_J134	I	max	0	32	4.744	8	0	32	-0.001	21	0	32	0	32
574			min	0	1	1.588	21	0	1	-0.002	4	0	1	0	1
575		J	max	0	32	-1.588	32	0	32	-0.001	21	0	32	0	32
576			min	0	1	-4.744	4	0	1	-0.002	4	0	1	0	1
577	F1_J135	I	max	0	32	4.744	8	0	32	0.003	7	0	32	0	32
578			min	0	1	1.588	21	0	1	0.001	21	0	1	0	1
579		J	max	0	32	-1.588	32	0	32	0.003	7	0	32	0	32
580			min	0	1	-4.744	4	0	1	0.001	21	0	1	0	1
581	F1_J136	I	max	0	32	4.744	8	0	32	0.004	7	0	32	0	32
582			min	0	1	1.588	21	0	1	0.001	21	0	1	0	1
583		J	max	0	32	-1.588	32	0	32	0.004	7	0	32	0	32
584			min	0	1	-4.744	4	0	1	0.001	21	0	1	0	1
585	F1_J137	I	max	0	32	4.744	8	0	32	-0.001	23	0	32	0	32
586			min	0	1	1.588	21	0	1	-0.003	5	0	1	0	1
587		J	max	0	32	-1.588	32	0	32	-0.001	23	0	32	0	32
588			min	0	1	-4.744	4	0	1	-0.003	5	0	1	0	1
589	F1_J138	I	max	0	32	4.66	8	0	32	0.003	7	0	32	0	32
590			min	0	1	1.563	21	0	1	0	21	0	1	0	1
591		J	max	0	32	-1.563	32	0	32	0.003	7	0	32	0	32
592			min	0	1	-4.66	4	0	1	0	21	0	1	0	1
593	F1_J139	I	max	0	32	4.66	8	0	32	0.002	7	0	32	0	32
594			min	0	1	1.563	21	0	1	0	21	0	1	0	1
595		J	max	0	32	-1.563	32	0	32	0.002	7	0	32	0	32
596			min	0	1	-4.66	4	0	1	0	21	0	1	0	1
597	F1_J140	I	max	0	32	4.66	8	0	32	0.002	7	0	32	0	32
598			min	0	1	1.563	21	0	1	0	21	0	1	0	1
599		J	max	0	32	-1.563	32	0	32	0.002	7	0	32	0	32
600			min	0	1	-4.66	4	0	1	0	21	0	1	0	1
601	F1_J141	I	max	0	32	4.66	8	0	32	0.001	7	0	32	0	32
602			min	0	1	1.563	21	0	1	0	21	0	1	0	1
603		J	max	0	32	-1.563	32	0	32	0.001	7	0	32	0	32
604			min	0	1	-4.66	4	0	1	0	21	0	1	0	1
605	F1_J142	I	max	0	13	4.66	8	0	32	0.002	5	0	32	0	32
606			min	0	19	1.563	21	0	1	0.001	23	0	1	0	1
607		J	max	0	13	-1.563	32	0	32	0.002	5	0	32	0	32
608			min	0	19	-4.66	4	0	1	0.001	23	0	1	0	1
609	F1_J143	I	max	0	32	4.66	8	0	32	0.002	5	0	32	0	32
610			min	0	1	1.563	21	0	1	0.001	23	0	1	0	1
611		J	max	0	32	-1.563	32	0	32	0.002	5	0	32	0	32
612			min	0	1	-4.66	4	0	1	0.001	23	0	1	0	1
613	F1_J148	I	max	0	32	6.191	8	0	32	-0.003	21	0	32	0	32
614			min	0	1	0.727	21	0	1	-0.01	7	0	1	0	1
615		J	max	0	32	-0.766	23	0	32	-0.003	21	0	32	0	32
616			min	0	1	-6.243	4	0	1	-0.01	7	0	1	0	1
617	F1_J149	I	max	0	32	6.977	8	0	32	-0.002	21	0	32	0	32
618			min	0	1	0.823	23	0	1	-0.011	7	0	1	0	1
619		J	max	0	32	-0.862	32	0	32	-0.002	21	0	32	0	32
620			min	0	1	-7.03	4	0	1	-0.011	7	0	1	0	1
621	F1_J150	I	max	0	32	7.993	8	0	32	0.01	7	0	32	0	32
622			min	0	1	0.743	23	0	1	0.002	21	0	1	0	1
623		J	max	0	32	-0.763	32	0	32	0.01	7	0	32	0	32
624			min	0	1	-8.02	4	0	1	0.002	21	0	1	0	1
625	F1_J151	I	max	0	32	10.549	8	0	32	0.006	7	0	32	0	32
626			min	0	1	1.264	21	0	1	0.001	21	0	1	0	1
627		J	max	0	32	-1.304	32	0	32	0.006	7	0	32	0	32
628			min	0	1	-10.603	4	0	1	0.001	21	0	1	0	1
629	F1_J152	I	max	0	32	11.094	8	0	32	0.005	5	0	32	0	32
630			min	0	1	1.177	21	0	1	0.001	22	0	1	0	1

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
631		J	max	0	32	-1.309	32	0	32	0.005	5	0	32	0	32
632			min	0	1	-11.271	4	0	1	0.001	22	0	1	0	1
633	F1_J153	I	max	0	32	16.614	8	0	32	-0.003	21	0	32	0	32
634			min	0	1	3.38	21	0	1	-0.013	7	0	1	0	1
635		J	max	0	32	-3.38	32	0	32	-0.003	21	0	32	0	32
636			min	0	1	-16.614	4	0	1	-0.013	7	0	1	0	1
637	F1_J154	I	max	0	32	14.648	8	0	32	-0.001	21	0	32	0	32
638			min	0	1	3.071	21	0	1	-0.009	7	0	1	0	1
639		J	max	0	32	-3.279	32	0	32	-0.001	21	0	32	0	32
640			min	0	1	-15.975	4	0	1	-0.009	7	0	1	0	1
641	F1_J155	I	max	0	32	16.858	8	0	32	0.004	5	0	32	0	32
642			min	0	1	3.425	21	0	1	0.001	23	0	1	0	1
643		J	max	0	32	-3.425	32	0	32	0.004	5	0	32	0	32
644			min	0	1	-16.858	4	0	1	0.001	23	0	1	0	1
645	F1_J156	I	max	0	32	16.858	8	0	32	0.004	5	0	32	0	32
646			min	0	1	3.425	21	0	1	0.001	23	0	1	0	1
647		J	max	0	32	-3.425	32	0	32	0.004	5	0	32	0	32
648			min	0	1	-16.858	4	0	1	0.001	23	0	1	0	1
649	F1_J157	I	max	0	32	16.614	8	0	32	-0.002	21	0	32	0	32
650			min	0	1	3.38	21	0	1	-0.007	7	0	1	0	1
651		J	max	0	32	-3.38	32	0	32	-0.002	21	0	32	0	32
652			min	0	1	-16.614	4	0	1	-0.007	7	0	1	0	1
653	F1_J158	I	max	0	32	16.614	8	0	32	-0.001	21	0	32	0	32
654			min	0	1	3.38	21	0	1	-0.007	7	0	1	0	1
655		J	max	0	32	-3.38	32	0	32	-0.001	21	0	32	0	32
656			min	0	1	-16.614	4	0	1	-0.007	7	0	1	0	1
657	F1_G159	I	max	0	23	2.467	8	0	32	0	5	0	32	0	32
658			min	0	21	0.522	21	0	1	0	23	0	1	0	1
659		J	max	0	23	-0.522	32	0	32	0	5	0	32	0	32
660			min	0	21	-2.467	4	0	1	0	23	0	1	0	1
661	F1_G154	I	max	0.001	21	6.63	5	0	15	0.003	7	0	32	0	32
662			min	-0.001	15	1.355	23	0	21	0	21	0	1	0	1
663		J	max	0.001	15	-1.356	21	0	13	0.003	7	0	32	0	32
664			min	-0.001	21	-8.829	7	0	22	0	21	0	1	0	1
665	F1_G155	I	max	0.031	7	3.689	6	0	21	0	7	0	32	0	32
666			min	-0.001	21	0.484	29	0	7	0	21	0	1	0	1
667		J	max	0.002	21	-0.484	21	0	21	0	7	0	32	0	32
668			min	-0.038	7	-3.689	4	0	7	0	21	0	1	0	1
669	F1_G157	I	max	0	32	4.651	8	0	32	0	23	0	32	0	32
670			min	0	1	0.636	23	0	1	-0.001	5	0	1	0	1
671		J	max	0	32	-0.611	32	0	32	0	23	0	32	0	32
672			min	0	1	-4.618	4	0	1	-0.001	5	0	1	0	1
673	F1_G160	I	max	0	21	0.073	1	0	32	0.005	7	0	32	0	32
674			min	0	15	0.047	21	0	1	0.001	21	0	1	0	1
675		J	max	0	21	-0.047	32	0	32	0.005	7	0	32	0	32
676			min	0	15	-0.073	1	0	1	0.001	21	0	1	0	1
677	(B-2)_L1	I	max	72.782	7	0	32	0	32	0.001	19	0	32	0	32
678			min	25.331	21	0	1	0	1	-0.002	13	0	1	0	1
679		J	max	72.551	7	0	32	0	32	0.001	19	0	32	0	32
680			min	25.158	21	0	1	0	1	-0.002	13	0	1	0	1
681	(B-3)_L1	I	max	68.839	5	0	32	0	32	0.001	19	0	32	0	32
682			min	23.842	23	0	1	0	1	-0.002	13	0	1	0	1
683		J	max	68.608	5	0	32	0	32	0.001	19	0	32	0	32
684			min	23.669	23	0	1	0	1	-0.002	13	0	1	0	1
685	(A-2)_L1	I	max	72.782	5	0	32	0	32	0.001	19	0	32	0	32
686			min	25.331	23	0	1	0	1	-0.002	13	0	1	0	1
687		J	max	72.551	5	0	32	0	32	0.001	19	0	32	0	32
688			min	25.158	23	0	1	0	1	-0.002	13	0	1	0	1

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
689	(A-3)_L1	I	max	68.839	5	0	32	0	32	0.001	19	0	32	0	32
690			min	23.842	23	0	1	0	1	-0.002	13	0	1	0	1
691		J	max	68.608	5	0	32	0	32	0.001	19	0	32	0	32
692			min	23.669	23	0	1	0	1	-0.002	13	0	1	0	1
693	(B-4)_L1	I	max	68.839	7	0	32	0	32	0.001	19	0	32	0	32
694			min	23.842	21	0	1	0	1	-0.002	13	0	1	0	1
695		J	max	68.608	7	0	32	0	32	0.001	19	0	32	0	32
696			min	23.669	21	0	1	0	1	-0.002	13	0	1	0	1
697	(A-4)_L1	I	max	68.839	7	0	32	0	32	0.001	19	0	32	0	32
698			min	23.842	21	0	1	0	1	-0.002	13	0	1	0	1
699		J	max	68.608	7	0	32	0	32	0.001	19	0	32	0	32
700			min	23.669	21	0	1	0	1	-0.002	13	0	1	0	1
701	(B-5)_L1	I	max	72.782	5	0	32	0	32	0.001	19	0	32	0	32
702			min	25.331	23	0	1	0	1	-0.002	13	0	1	0	1
703		J	max	72.551	5	0	32	0	32	0.001	19	0	32	0	32
704			min	25.158	23	0	1	0	1	-0.002	13	0	1	0	1
705	(A-5)_L1	I	max	72.782	5	0	32	0	32	0.001	19	0	32	0	32
706			min	25.331	23	0	1	0	1	-0.002	13	0	1	0	1
707		J	max	72.551	5	0	32	0	32	0.001	19	0	32	0	32
708			min	25.158	23	0	1	0	1	-0.002	13	0	1	0	1
709	(A-6)_L1	I	max	123.222	7	-0.001	21	0.001	7	0.005	19	0	32	0	32
710			min	30.791	21	-0.004	7	0	21	-0.005	13	0	1	0	1
711		J	max	122.689	7	-0.001	21	0.001	7	0.005	19	0.01	7	0.059	7
712			min	30.391	21	-0.004	7	0	21	-0.005	13	-0.001	21	0.012	21
713	(M-D)_L1	I	max	37.152	5	0	23	0.001	5	0.005	19	0	32	0	32
714			min	8.347	23	0	13	0	23	-0.005	13	0	1	0	1
715		J	max	36.619	5	0	23	0.001	5	0.005	19	0.014	5	0	13
716			min	7.948	23	0	13	0	23	-0.005	13	0.003	23	0	23
717	C15_L1	I	max	59.271	7	0	21	0	23	0.005	19	0	32	0	32
718			min	13.893	21	0	15	0	13	-0.005	13	0	1	0	1
719		J	max	58.738	7	0	21	0	23	0.005	19	0	23	0	15
720			min	13.494	21	0	15	0	13	-0.005	13	0	13	0	21
721	C19_L1	I	max	106.543	4	16.319	7	-0.081	21	-0.072	24	0	32	0	32
722			min	22.114	23	3.03	21	-0.425	4	-0.312	6	0	1	0	1
723		J	max	60.281	7	-8.891	21	1.37	4	0.973	7	0.006	7	0.198	5
724			min	9.434	21	-45.529	7	0.273	21	0.126	21	0.001	21	0.036	23
725	C20_L1	I	max	60.73	4	-0.014	23	-0.129	21	0.928	7	0	32	0	32
726			min	13.531	23	-4.044	5	-0.614	4	0.104	21	0	1	0	1
727		J	max	23.043	5	2.379	21	-0.194	21	-0.402	21	0.001	7	-0.002	23
728			min	3.316	23	-6.98	7	-1.085	4	-2.743	7	0	21	-0.016	5
729	(J-C)_L1	I	max	14.426	5	0.001	5	0	5	0.005	19	0	32	0	32
730			min	4.456	23	0	23	0	23	-0.005	13	0	1	0	1
731		J	max	13.893	5	0.001	5	0	5	0.005	19	0.003	5	-0.002	23
732			min	4.056	23	0	23	0	23	-0.005	13	0	23	-0.012	5
733	(K-C)_L1	I	max	15.294	5	0.689	4	0.008	4	0.005	19	0	32	0	32
734			min	5.046	23	0.113	23	0	21	-0.005	13	0	1	0	1
735		J	max	24.09	5	-0.341	23	0.141	7	0.005	19	0	7	0.017	4
736			min	6.853	23	-2.071	4	0.017	21	-0.005	13	0	21	0.003	21
737	(C-5)_L1	I	max	38.434	7	0.42	5	0.008	19	0.005	19	0	32	0	32
738			min	9.712	21	-0.063	23	-0.013	13	-0.005	13	0	1	0	1
739		J	max	41.293	7	0.191	23	0.222	4	0.005	19	0.004	7	-0.003	21
740			min	10.486	21	-1.255	5	0.049	21	-0.005	13	0.001	21	-0.026	7
741	M193	I	max	-0.877	23	11.342	4	1.417	21	5.516	5	0	32	0	32
742			min	-5.699	5	3.293	23	-1.42	15	1.188	23	0	1	0	1
743		J	max	-1.07	21	-2.716	21	1.372	15	9.994	4	0	32	0	32
744			min	-5.613	4	-8.77	4	-1.307	21	2.198	23	0	1	0	1
745	M194	I	max	-0.403	21	6.605	4	2.495	21	-1.249	23	0	32	0	32
746			min	-2.061	4	2.184	21	-2.495	23	-6.487	5	0	1	0	1

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
747		J	max	-0.403	21	-2.184	32	2.495	19	-1.249	23	0	32	0	32
748			min	-2.061	4	-6.605	4	-2.495	13	-6.487	5	0	1	0	1
749	M196	I	max	-0.24	21	6.607	4	2.509	13	0.526	21	0	32	0	32
750			min	-1.2	4	2.17	21	-2.509	19	-1.294	7	0	1	0	1
751		J	max	-0.24	21	-2.17	32	2.509	15	0.526	21	0	32	0	32
752			min	-1.2	4	-6.607	4	-2.509	17	-1.294	7	0	1	0	1
753	M197	I	max	-0.865	22	9.193	4	1.131	15	1.609	7	0	32	0	32
754			min	-4.275	4	2.581	23	-1.131	21	0.02	21	0	1	0	1
755		J	max	-0.473	23	-2.934	21	1.132	21	-0.125	23	0	32	0	32
756			min	-4.399	5	-10.953	4	-1.133	15	-0.97	4	0	1	0	1
757	M198	I	max	1.675	5	-0.446	23	0.23	5	0.863	7	0	32	0	32
758			min	-0.253	23	-3.761	4	0.046	23	0.055	21	0	1	0	1
759		J	max	5.06	21	32.374	4	0.989	13	0.713	5	6.506	5	65.288	4
760			min	-5.261	15	8.604	21	-0.565	23	0.133	23	0.793	23	14.586	21
761	M199	I	max	1.883	13	-1.053	23	1.739	7	0	32	0	32	0	32
762			min	-1.585	23	-4.063	4	0.31	21	0	1	0	1	0	1
763		J	max	3.489	4	5.058	7	-0.012	21	-0.064	21	-0.036	21	-2.934	23
764			min	0.734	23	0.769	21	-0.074	7	-0.397	7	-0.164	7	-13.939	4
765	M200	I	max	5.004	21	13.276	4	-0.175	21	-0.001	23	1.076	4	11.155	4
766			min	-5.006	15	4.402	24	-0.861	4	-0.017	5	0.219	21	3.148	21
767		J	max	5.004	21	13.212	4	-0.175	21	-0.001	23	0	32	-0.354	23
768			min	-5.006	15	4.354	24	-0.861	4	-0.017	5	0	1	-5.902	5
769	M201	I	max	2.93	5	25.34	7	-0.182	21	1.028	4	0.739	4	23.643	7
770			min	-0.816	23	-0.901	21	-0.912	4	0.213	21	0.14	21	1.768	21
771		J	max	2.93	5	25.276	7	-0.182	21	1.028	4	-0.084	23	2.924	21
772			min	-0.816	23	-0.95	21	-0.912	4	0.213	21	-0.4	4	-7.98	7
773	M205	I	max	5.918	6	3.847	23	0	23	0	32	0	13	0.331	23
774			min	0.484	24	-3.955	13	0	13	0	1	0	23	-0.651	13
775		J	max	10.281	7	4.237	21	-0.062	21	-0.084	23	-0.206	21	8.55	15
776			min	-6.411	17	-6.194	15	-0.293	4	-0.4	4	-1.043	4	-3.645	21
777	M212	I	max	0	15	10.051	13	0	21	0.126	7	0	13	6.2	15
778			min	0	21	-5.963	23	0	19	0.007	21	0	23	-4.681	21
779		J	max	0	15	9.986	13	0	21	0.126	7	0	13	12.952	23
780			min	0	21	-6.011	23	0	19	0.007	21	0	23	-16.519	13
781	M213	I	max	0.253	5	1.648	23	0.03	19	0	32	0	5	1.346	5
782			min	0.159	23	-1.71	13	-0.114	5	0	1	0	23	-0.179	23
783		J	max	-1.877	23	-1.583	21	2.436	4	-0.046	23	5.983	4	46.246	4
784			min	-15.087	5	-18.064	7	0.463	23	-0.751	5	1.26	21	8.051	21
785	M216	I	max	-0.399	22	8.662	4	0.95	15	-1.127	23	0	32	0	32
786			min	-2.295	4	2.253	23	-0.882	21	-5.512	4	0	1	0	1
787		J	max	0.081	17	0.812	7	0.054	23	1.876	19	0.509	15	0.336	7
788			min	-0.099	7	0.365	21	-0.076	13	-1.9	13	-0.377	21	-0.559	17
789	M218	I	max	0.632	1	3.814	15	0.117	17	2.68	15	-0.268	21	1.499	23
790			min	0.199	7	-3.73	21	-0.017	7	-1.917	21	-0.738	7	-2.177	13
791		J	max	7.528	15	3.329	17	2.822	4	0.496	19	8.843	4	0.804	15
792			min	-5.277	21	-3.392	15	0.455	23	-0.541	13	1.746	21	-1.375	17
793	M220	I	max	0.099	7	0.281	7	0.076	13	1.2	21	0.509	15	0.676	7
794			min	-0.081	17	-0.041	17	-0.054	23	-1.403	15	-0.377	21	-0.273	17
795		J	max	0.114	5	-0.159	23	1.648	23	0.179	23	0	32	0	32
796			min	-0.03	19	-0.253	5	-1.71	13	-1.346	5	0	1	0	1
797	M223	I	max	53.98	7	5.355	22	12.638	15	22.697	13	47.831	21	108.38	14
798			min	7.082	21	-6.74	16	-5.311	21	-16.048	23	-107.478	15	-51.655	24
799		J	max	27.619	7	1.408	6	0.871	23	12.77	5	10.611	23	25.197	8
800			min	-1.005	21	-2.027	20	-2.65	13	-5.124	23	-14.855	13	-6.991	18
801	M224	I	max	0.39	21	1.887	7	0.279	3	4.517	5	0	32	0	32
802			min	-14.012	7	0.299	21	-2.438	6	-1.361	23	0	1	0	1
803		J	max	4.3	5	5.646	15	1.757	18	7.912	5	0	32	0	32
804			min	-3.67	19	-2.292	21	-3.802	8	-3.143	23	0	1	0	1

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
805	M225	I	max	6.273	5	1.282	13	1.907	23	1.673	23	24.202	21	7.51	6
806			min	-0.193	23	-1.024	23	-5.242	13	-7.563	5	-25.808	15	-4.845	24
807		J	max	7.262	21	3.803	8	-1.635	23	-18.287	22	1.251	21	24.613	23
808			min	-10.648	15	-1.756	18	-16.998	5	-72.774	4	-1.764	15	-27.55	13
809	M229	I	max	34.512	5	8.636	14	4.6	23	33.865	14	38.599	21	102.853	14
810			min	4.235	23	-7.251	24	-11.709	13	-25.95	24	-116.959	15	-57.718	24
811		J	max	2.608	5	1.892	6	3.337	19	13.791	5	22.065	15	8.197	5
812			min	-2.488	19	-0.118	24	-3.084	21	-3.151	23	-15.128	21	-1.692	23
813	M226	I	max	3.084	21	0.118	24	2.488	19	1.687	23	15.128	21	3.151	23
814			min	-3.337	19	-1.892	6	-2.608	5	-8.196	5	-22.065	15	-13.791	5
815		J	max	5.709	13	0.279	3	-0.39	21	6.363	22	0.332	23	20.01	15
816			min	-4.15	23	-2.438	6	-21.452	7	-32.407	8	-0.649	13	-14.001	21
817	M227	I	max	0	32	4.954	15	-0.579	22	0.331	23	32.407	8	20.259	15
818			min	0	1	-4.846	21	-7.541	8	-0.651	13	-6.363	22	-16.493	21
819		J	max	0	32	3.955	13	5.918	6	0.331	23	0	32	0	32
820			min	0	1	-3.847	23	0.484	24	-0.651	13	0	1	0	1
821	M228	I	max	0	32	5.003	15	-4.434	22	1.247	21	72.774	4	21.958	15
822			min	0	1	-4.97	21	-13.769	4	-1.774	15	18.287	22	-20.822	21
823		J	max	0	32	3.794	13	9.611	4	1.247	21	0	32	0	32
824			min	0	1	-3.762	23	2.93	24	-1.774	15	0	1	0	1
825	M221	I	max	4.266	17	0.032	3	0.873	4	0.338	23	0	32	0	32
826			min	-0.471	23	-0.106	7	0.151	23	-0.42	13	0	1	0	1
827		J	max	9.145	5	7.753	15	3.648	5	5.068	13	0	23	-0.001	23
828			min	1.284	23	-7.23	21	-0.792	23	-3.448	23	-0.004	5	-0.006	5
829	M222	I	max	65.291	4	-0.846	23	-0.134	23	0.345	7	0	32	0	32
830			min	15.412	21	-5.122	4	-0.64	4	-0.026	21	0	1	0	1
831		J	max	17.797	7	3.326	21	-0.449	23	0.488	21	0	7	-0.001	21
832			min	2.955	21	-10.444	7	-2.594	4	-2.553	7	0	21	-0.008	7
833	M230	I	max	2.76	4	-2.102	21	0.133	7	0.655	7	0	32	0	32
834			min	0.455	23	-9.672	4	0.017	21	0.06	21	0	1	0	1
835		J	max	17.279	5	20.696	7	2.12	5	3.005	7	4.393	4	67.443	4
836			min	2.203	23	4.07	21	0.234	23	0.329	21	0.971	23	12.128	23
837	M217	I	max	6.845	21	6.166	17	3.3	5	1.128	21	2.878	23	5.387	19
838			min	-7.329	15	-6.503	15	-0.789	23	-1.712	15	-4.459	13	-5.381	13
839		J	max	6.845	21	6.1	17	3.3	5	1.128	21	2.219	15	13.37	15
840			min	-7.329	15	-6.569	15	-0.789	23	-1.712	15	-1.402	21	-12.884	21
841	M219	I	max	-0.013	21	15.936	5	0.656	21	1.418	5	1.781	7	5.839	15
842			min	-18.948	7	2.483	23	-1.115	15	-0.681	23	-0.571	21	-2.919	21
843		J	max	-0.013	21	15.871	5	0.656	21	1.418	5	0.751	5	1.711	23
844			min	-18.948	7	2.434	23	-1.115	15	-0.681	23	0.046	23	-18.852	5
845	M232	I	max	0.281	7	0.054	23	0.099	7	0.509	15	0.273	17	1.2	21
846			min	-0.041	17	-0.076	13	-0.081	17	-0.377	21	-0.676	7	-1.403	15
847		J	max	0.812	7	0.054	23	0.099	7	0.509	15	0.336	7	1.9	13
848			min	0.365	21	-0.076	13	-0.081	17	-0.377	21	-0.559	17	-1.876	19
849	M233	I	max	0.348	5	6.669	4	0.132	21	-0.805	23	0	32	0	32
850			min	-0.009	23	1.498	21	-0.712	7	-2.989	4	0	1	0	1
851		J	max	0.348	5	-1.184	23	0.915	15	-0.805	23	0	32	0	32
852			min	-0.009	23	-5.463	4	-0.793	21	-2.989	4	0	1	0	1
853	M234	I	max	0	21	5.28	4	0	22	-0.001	23	0	32	0	32
854			min	-0.001	7	1.115	21	0	16	-0.006	4	0	1	0	1
855		J	max	0.001	7	-1.115	23	0	13	-0.001	23	0	32	0	32
856			min	0	21	-7.239	5	0	23	-0.006	5	0	1	0	1
857	M235	I	max	0.866	5	4.013	4	1.17	13	4.59	7	0	32	0	32
858			min	0.093	23	0.933	23	-1.17	23	0.809	21	0	1	0	1
859		J	max	0.866	5	-1.196	21	1.172	23	4.59	7	0	32	0	32
860			min	0.093	23	-5.307	4	-1.172	13	0.809	21	0	1	0	1
861	M236	I	max	1.834	5	2.111	4	1.509	13	0	32	0	32	0	32
862			min	0.211	23	0.592	21	-1.507	23	0	1	0	1	0	1

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
863		J	max	1.834	5	-1.053	23	1.646	23	0	32	0	32	0	32
864			min	0.211	23	-4.063	4	-1.713	13	0	1	0	1	0	1
865	M237	I	max	0.811	23	2.426	4	0	32	-0.457	21	0	32	0	32
866			min	-0.811	13	0.467	23	0	1	-4.326	7	0	1	0	1
867		J	max	0.811	23	-0.467	21	0	32	-0.457	21	0	32	0	32
868			min	-0.811	13	-2.426	5	0	1	-4.326	7	0	1	0	1
869	M238	I	max	0.725	15	2.683	8	0	32	-0.82	21	0	32	0	32
870			min	-0.724	21	0.516	21	0	1	-4.506	4	0	1	0	1
871		J	max	0.725	15	-0.516	32	0	32	-0.82	21	0	32	0	32
872			min	-0.724	21	-2.683	4	0	1	-4.506	4	0	1	0	1
873	M239	I	max	0.807	23	2.939	8	0	32	-1.213	21	0	32	0	32
874			min	-0.808	13	0.566	21	0	1	-5.166	4	0	1	0	1
875		J	max	0.807	23	-0.566	32	0	32	-1.213	21	0	32	0	32
876			min	-0.808	13	-2.939	4	0	1	-5.166	4	0	1	0	1
877	M240	I	max	0.692	15	3.425	8	0	32	0.957	2	0	32	0	32
878			min	-0.679	21	0.659	21	0	1	0.405	23	0	1	0	1
879		J	max	0.692	15	-0.659	32	0	32	0.957	2	0	32	0	32
880			min	-0.679	21	-3.425	4	0	1	0.405	23	0	1	0	1
881	M241	I	max	0.823	23	3.653	8	0	32	2.003	4	0	32	0	32
882			min	-0.935	13	0.703	23	0	1	0.529	21	0	1	0	1
883		J	max	0.823	23	-0.703	32	0	32	2.003	4	0	32	0	32
884			min	-0.935	13	-3.653	4	0	1	0.529	21	0	1	0	1
885	M245	I	max	1.085	5	3.919	8	0	32	4.836	4	0	32	0	32
886			min	-0.246	23	0.775	21	0	1	1.064	21	0	1	0	1
887		J	max	1.085	5	-0.775	32	0	32	4.836	4	0	32	0	32
888			min	-0.246	23	-3.919	4	0	1	1.064	21	0	1	0	1
889	M246	I	max	1.079	23	1.847	4	0	32	-3.233	23	0	32	0	32
890			min	-1.102	13	0.355	23	0	1	-11.938	4	0	1	0	1
891		J	max	1.079	23	-0.355	21	0	32	-3.233	23	0	32	0	32
892			min	-1.102	13	-1.847	5	0	1	-11.938	4	0	1	0	1
893	M247	I	max	0.756	15	1.524	5	0	32	-1.965	23	0	32	0	32
894			min	-0.65	21	0.293	23	0	1	-8.432	4	0	1	0	1
895		J	max	0.756	15	-0.293	21	0	32	-1.965	23	0	32	0	32
896			min	-0.65	21	-1.524	7	0	1	-8.432	4	0	1	0	1
897	M248	I	max	1.359	23	1.202	7	0	32	-0.615	23	0	32	0	32
898			min	-1.512	13	0.231	21	0	1	-5.422	4	0	1	0	1
899		J	max	1.359	23	-0.231	23	0	32	-0.615	23	0	32	0	32
900			min	-1.512	13	-1.202	4	0	1	-5.422	4	0	1	0	1
901	M249	I	max	43.123	7	0.552	5	0.3	4	0.15	7	0	32	0	32
902			min	7.117	21	0.063	23	0.061	21	-0.018	21	0	1	0	1
903		J	max	42.723	7	0.552	5	0.3	4	0.15	7	3.594	4	-0.753	23
904			min	6.817	21	0.063	23	0.061	21	-0.018	21	0.736	21	-6.628	5
905	M250	I	max	2.681	13	11.84	4	-0.118	23	0	32	6.506	5	69.28	4
906			min	-2.679	23	2.686	21	-0.968	5	0	1	0.793	23	15.843	21
907		J	max	2.681	13	7.418	4	-0.118	23	0	32	0	32	4.59	7
908			min	-2.679	23	1.789	21	-0.968	5	0	1	0	1	0.809	21
909	M251	I	max	0.423	13	3.556	23	-0.076	21	13.671	4	0.908	23	0.572	17
910			min	-0.462	19	-9.517	5	-0.561	4	2.837	22	-1.029	13	-0.598	7
911		J	max	0.132	21	6.669	4	0.009	23	0	32	0	32	2.989	4
912			min	-0.712	7	1.498	21	-0.348	5	0	1	0	1	0.805	23
913	M252	I	max	1.963	21	15.991	4	-0.103	23	0	32	5.124	5	118.499	4
914			min	-2.085	15	3.438	23	-0.518	5	0	1	1.017	23	25.68	23
915		J	max	1.963	21	9.477	4	-0.103	23	0	32	0	32	-1.636	21
916			min	-2.085	15	2.117	23	-0.518	5	0	1	0	1	-7.564	4
917	M253	I	max	0	32	2.863	8	0	32	0	21	0	32	0	32
918			min	0	1	0.376	23	0	1	-0.001	4	0	1	0	1
919		J	max	0	32	-0.376	32	0	32	0	21	0	32	0	32
920			min	0	1	-2.863	4	0	1	-0.001	4	0	1	0	1

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-ft]	LC	y-y Moment[k-ft]	LC	z-z Moment[k-ft]	LC
921	M255	I	max	4.928	7	0.508	5	-0.727	23	-0.052	21	0	32	0	32
922			min	0.67	21	0.1	23	-3.449	4	-0.234	7	0	1	0	1
923		J	max	5.061	7	0.507	5	-0.727	23	-0.052	21	-2.909	23	-0.398	23
924			min	0.77	21	0.099	23	-3.449	4	-0.234	7	-13.795	4	-2.029	5
925	M256	I	max	61.613	5	0.269	1	0	32	0.774	7	0	32	0	32
926			min	10.766	23	0.173	29	0	1	0.185	21	0	1	0	1
927		J	max	61.479	5	-0.173	24	0	32	0.774	7	0	32	0	32
928			min	10.666	23	-0.269	1	0	1	0.185	21	0	1	0	1
929	M254	I	max	2.738	13	1.334	24	0.524	23	1.773	23	22.43	13	0.339	22
930			min	-1.129	23	-1.733	14	-5.221	5	-7.657	5	-16.055	23	-3.468	8
931		J	max	2.738	13	1.89	22	7.533	7	1.773	23	35.099	15	19.199	15
932			min	-1.129	23	-2.29	16	0.196	21	-7.657	5	-9.338	21	-14.633	21
933	M257	I	max	0	32	3.198	24	-3.573	23	0	32	85.368	4	25.56	24
934			min	0	1	-3.198	14	-10.679	4	0	1	28.561	23	-25.56	18
935		J	max	0	32	0	32	0	32	0	32	0	32	0	32
936			min	0	1	0	1	0	1	0	1	0	1	0	1
937	M258	I	max	0	32	1.599	24	-3.573	23	0	32	85.368	4	12.78	24
938			min	0	1	-1.599	14	-10.679	4	0	1	28.561	23	-12.78	22
939		J	max	0	32	0	32	0	32	0	32	0	32	0	32
940			min	0	1	0	1	0	1	0	1	0	1	0	1
941	M244	I	max	0	32	4.953	15	-0.555	22	0.661	13	37.447	8	20.236	15
942			min	0	1	-4.875	21	-7.685	8	-0.421	23	-7.306	18	-17.495	21
943		J	max	0	32	3.911	13	5.799	6	0.661	13	0	32	0	32
944			min	0	1	-3.833	23	0.457	24	-0.421	23	0	1	0	1
945	M242	I	max	0	32	15.382	8	0	32	0.01	5	0	32	0	32
946			min	0	1	2.726	21	0	1	0.002	23	0	1	0	1
947		J	max	0	32	-2.726	32	0	32	0.01	5	0	32	0	32
948			min	0	1	-15.382	4	0	1	0.002	23	0	1	0	1

Envelope Member Torsion Stresses

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
1	F1_G19	1	max	0.005	21	0.037	21	NC	NC	NC	NC
2			min	-0.009	15	-0.068	15	NC	NC	NC	NC
3		2	max	0.005	21	0.037	21	NC	NC	NC	NC
4			min	-0.009	15	-0.068	15	NC	NC	NC	NC
5		3	max	0.005	21	0.038	21	NC	NC	NC	NC
6			min	-0.008	15	-0.065	15	NC	NC	NC	NC
7		4	max	0.005	21	0.038	21	NC	NC	NC	NC
8			min	-0.008	15	-0.065	15	NC	NC	NC	NC
9		5	max	0.005	21	0.04	21	NC	NC	NC	NC
10			min	-0.008	15	-0.061	15	NC	NC	NC	NC
11	F1_G20	1	max	0.002	4	0.015	4	NC	NC	NC	NC
12			min	0	23	0.003	23	NC	NC	NC	NC
13		2	max	0.002	4	0.015	4	NC	NC	NC	NC
14			min	0	23	0.003	23	NC	NC	NC	NC
15		3	max	0.002	4	0.015	4	NC	NC	NC	NC
16			min	0	23	0.003	23	NC	NC	NC	NC
17		4	max	0.002	4	0.015	4	NC	NC	NC	NC
18			min	0	23	0.003	23	NC	NC	NC	NC
19		5	max	0.002	4	0.015	4	NC	NC	NC	NC
20			min	0	23	0.003	23	NC	NC	NC	NC
21	F1_G32	1	max	0	13	0	13	NC	NC	NC	NC
22			min	0	19	0	19	NC	NC	NC	NC
23		2	max	0	13	0	13	NC	NC	NC	NC
24			min	0	19	0	19	NC	NC	NC	NC
25		3	max	0	13	0	13	NC	NC	NC	NC
26			min	0	19	0	19	NC	NC	NC	NC
27		4	max	0	13	0	13	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
28			min	0	19	0	19	NC	NC	NC	NC
29		5	max	0	13	0	13	NC	NC	NC	NC
30			min	0	19	0	19	NC	NC	NC	NC
31	F1_G158	1	max	0	13	0	13	NC	NC	NC	NC
32			min	0	19	0	19	NC	NC	NC	NC
33		2	max	0	13	0	13	NC	NC	NC	NC
34			min	0	19	0	19	NC	NC	NC	NC
35		3	max	0	13	0	13	NC	NC	NC	NC
36			min	0	19	0	19	NC	NC	NC	NC
37		4	max	0	13	0	13	NC	NC	NC	NC
38			min	0	19	0	19	NC	NC	NC	NC
39		5	max	0	13	0	13	NC	NC	NC	NC
40			min	0	19	0	19	NC	NC	NC	NC
41	(B-6)_L1	1	max	0.005	19	0.003	19	NC	NC	NC	NC
42			min	-0.005	13	-0.003	13	NC	NC	NC	NC
43		2	max	0.005	19	0.003	19	NC	NC	NC	NC
44			min	-0.005	13	-0.003	13	NC	NC	NC	NC
45		3	max	0.005	19	0.003	19	NC	NC	NC	NC
46			min	-0.005	13	-0.003	13	NC	NC	NC	NC
47		4	max	0.005	19	0.003	19	NC	NC	NC	NC
48			min	-0.005	13	-0.003	13	NC	NC	NC	NC
49		5	max	0.005	19	0.003	19	NC	NC	NC	NC
50			min	-0.005	13	-0.003	13	NC	NC	NC	NC
51	(D-7)_L1	1	max	0.005	19	0.003	19	NC	NC	NC	NC
52			min	-0.005	13	-0.003	13	NC	NC	NC	NC
53		2	max	0.005	19	0.003	19	NC	NC	NC	NC
54			min	-0.005	13	-0.003	13	NC	NC	NC	NC
55		3	max	0.005	19	0.003	19	NC	NC	NC	NC
56			min	-0.005	13	-0.003	13	NC	NC	NC	NC
57		4	max	0.005	19	0.003	19	NC	NC	NC	NC
58			min	-0.005	13	-0.003	13	NC	NC	NC	NC
59		5	max	0.005	19	0.003	19	NC	NC	NC	NC
60			min	-0.005	13	-0.003	13	NC	NC	NC	NC
61	(B-7)_L1	1	max	0.005	19	0.003	19	NC	NC	NC	NC
62			min	-0.005	13	-0.003	13	NC	NC	NC	NC
63		2	max	0.005	19	0.003	19	NC	NC	NC	NC
64			min	-0.005	13	-0.003	13	NC	NC	NC	NC
65		3	max	0.005	19	0.003	19	NC	NC	NC	NC
66			min	-0.005	13	-0.003	13	NC	NC	NC	NC
67		4	max	0.005	19	0.003	19	NC	NC	NC	NC
68			min	-0.005	13	-0.003	13	NC	NC	NC	NC
69		5	max	0.005	19	0.003	19	NC	NC	NC	NC
70			min	-0.005	13	-0.003	13	NC	NC	NC	NC
71	C16_L1	1	max	0.002	13	0.001	13	NC	NC	NC	NC
72			min	0	1	0	1	NC	NC	NC	NC
73		2	max	0.002	13	0.001	13	NC	NC	NC	NC
74			min	0	1	0	1	NC	NC	NC	NC
75		3	max	0.002	13	0.001	13	NC	NC	NC	NC
76			min	0	1	0	1	NC	NC	NC	NC
77		4	max	0.002	13	0.001	13	NC	NC	NC	NC
78			min	0	1	0	1	NC	NC	NC	NC
79		5	max	0.002	13	0.001	13	NC	NC	NC	NC
80			min	0	1	0	1	NC	NC	NC	NC
81	C17_L1	1	max	0.192	7	0.037	7	NC	NC	NC	NC
82			min	0.013	21	0.002	21	NC	NC	NC	NC
83		2	max	0.192	7	0.037	7	NC	NC	NC	NC
84			min	0.013	21	0.002	21	NC	NC	NC	NC
85		3	max	0.192	7	0.037	7	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
86			min	0.013	21	0.002	21	NC	NC	NC	NC
87		4	max	-0.11	23	-0.021	23	NC	NC	NC	NC
88			min	-0.556	4	-0.107	4	NC	NC	NC	NC
89		5	max	-0.11	23	-0.021	23	NC	NC	NC	NC
90			min	-0.556	4	-0.107	4	NC	NC	NC	NC
91	C18_L1	1	max	1.076	4	0.207	4	NC	NC	NC	NC
92			min	0.219	21	0.042	21	NC	NC	NC	NC
93		2	max	1.076	4	0.207	4	NC	NC	NC	NC
94			min	0.219	21	0.042	21	NC	NC	NC	NC
95		3	max	1.076	4	0.207	4	NC	NC	NC	NC
96			min	0.219	21	0.042	21	NC	NC	NC	NC
97		4	max	1.076	4	0.207	4	NC	NC	NC	NC
98			min	0.219	21	0.042	21	NC	NC	NC	NC
99		5	max	0	32	0	32	NC	NC	NC	NC
100			min	0	1	0	1	NC	NC	NC	NC
101	(N-6)_L1	1	max	0.005	19	0.003	19	NC	NC	NC	NC
102			min	-0.005	13	-0.003	13	NC	NC	NC	NC
103		2	max	0.005	19	0.003	19	NC	NC	NC	NC
104			min	-0.005	13	-0.003	13	NC	NC	NC	NC
105		3	max	0.005	19	0.003	19	NC	NC	NC	NC
106			min	-0.005	13	-0.003	13	NC	NC	NC	NC
107		4	max	0.005	19	0.003	19	NC	NC	NC	NC
108			min	-0.005	13	-0.003	13	NC	NC	NC	NC
109		5	max	0.005	19	0.003	19	NC	NC	NC	NC
110			min	-0.005	13	-0.003	13	NC	NC	NC	NC
111	M12	1	max	0.01	7	0.024	7	NC	NC	NC	NC
112			min	0	1	0	1	NC	NC	NC	NC
113		2	max	0.01	7	0.024	7	NC	NC	NC	NC
114			min	0	1	0	1	NC	NC	NC	NC
115		3	max	0.01	7	0.024	7	NC	NC	NC	NC
116			min	0	1	0	1	NC	NC	NC	NC
117		4	max	0.01	7	0.024	7	NC	NC	NC	NC
118			min	0	1	0	1	NC	NC	NC	NC
119		5	max	0.01	7	0.024	7	NC	NC	NC	NC
120			min	0	1	0	1	NC	NC	NC	NC
121	M13	1	max	0	32	0	32	NC	NC	NC	NC
122			min	-0.004	13	-0.009	13	NC	NC	NC	NC
123		2	max	0	32	0	32	NC	NC	NC	NC
124			min	-0.004	13	-0.009	13	NC	NC	NC	NC
125		3	max	0	32	0	32	NC	NC	NC	NC
126			min	-0.004	13	-0.009	13	NC	NC	NC	NC
127		4	max	0	32	0	32	NC	NC	NC	NC
128			min	-0.004	13	-0.009	13	NC	NC	NC	NC
129		5	max	0	32	0	32	NC	NC	NC	NC
130			min	-0.004	13	-0.009	13	NC	NC	NC	NC
131	M14	1	max	0	32	0	32	NC	NC	NC	NC
132			min	0	1	0	1	NC	NC	NC	NC
133		2	max	0	32	0	32	NC	NC	NC	NC
134			min	0	1	0	1	NC	NC	NC	NC
135		3	max	0	32	0	32	NC	NC	NC	NC
136			min	0	1	0	1	NC	NC	NC	NC
137		4	max	0	32	0	32	NC	NC	NC	NC
138			min	0	1	0	1	NC	NC	NC	NC
139		5	max	0	32	0	32	NC	NC	NC	NC
140			min	0	1	0	1	NC	NC	NC	NC
141	M15	1	max	0	32	0	32	NC	NC	NC	NC
142			min	-0.024	21	-0.058	21	NC	NC	NC	NC
143		2	max	0	32	0	32	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
144			min	-0.024	21	-0.058	21	NC	NC	NC	NC
145		3	max	0	32	0	32	NC	NC	NC	NC
146			min	-0.024	21	-0.058	21	NC	NC	NC	NC
147		4	max	0	32	0	32	NC	NC	NC	NC
148			min	-0.024	21	-0.058	21	NC	NC	NC	NC
149		5	max	0	32	0	32	NC	NC	NC	NC
150			min	-0.024	21	-0.058	21	NC	NC	NC	NC
151	M16	1	max	0	13	0	13	NC	NC	NC	NC
152			min	0	19	0	19	NC	NC	NC	NC
153		2	max	0	13	0	13	NC	NC	NC	NC
154			min	0	19	0	19	NC	NC	NC	NC
155		3	max	0	13	0	13	NC	NC	NC	NC
156			min	0	19	0	19	NC	NC	NC	NC
157		4	max	0	13	0	13	NC	NC	NC	NC
158			min	0	19	0	19	NC	NC	NC	NC
159		5	max	0	13	0	13	NC	NC	NC	NC
160			min	0	19	0	19	NC	NC	NC	NC
161	M17	1	max	0	13	0	13	NC	NC	NC	NC
162			min	0	19	0	19	NC	NC	NC	NC
163		2	max	0	13	0	13	NC	NC	NC	NC
164			min	0	19	0	19	NC	NC	NC	NC
165		3	max	0	13	0	13	NC	NC	NC	NC
166			min	0	19	0	19	NC	NC	NC	NC
167		4	max	0	13	0	13	NC	NC	NC	NC
168			min	0	19	0	19	NC	NC	NC	NC
169		5	max	0	13	0	13	NC	NC	NC	NC
170			min	0	19	0	19	NC	NC	NC	NC
171	M18	1	max	0.001	19	0.001	19	NC	NC	NC	NC
172			min	-0.001	13	-0.001	13	NC	NC	NC	NC
173		2	max	0.001	19	0.001	19	NC	NC	NC	NC
174			min	-0.001	13	-0.001	13	NC	NC	NC	NC
175		3	max	0.001	19	0.001	19	NC	NC	NC	NC
176			min	-0.001	13	-0.001	13	NC	NC	NC	NC
177		4	max	0.001	19	0.001	19	NC	NC	NC	NC
178			min	-0.001	13	-0.001	13	NC	NC	NC	NC
179		5	max	0.001	19	0.001	19	NC	NC	NC	NC
180			min	-0.001	13	-0.001	13	NC	NC	NC	NC
181	M19	1	max	0.001	19	0.001	19	NC	NC	NC	NC
182			min	-0.001	13	-0.001	13	NC	NC	NC	NC
183		2	max	0.001	19	0.001	19	NC	NC	NC	NC
184			min	-0.001	13	-0.001	13	NC	NC	NC	NC
185		3	max	0.001	19	0.001	19	NC	NC	NC	NC
186			min	-0.001	13	-0.001	13	NC	NC	NC	NC
187		4	max	0.001	19	0.001	19	NC	NC	NC	NC
188			min	-0.001	13	-0.001	13	NC	NC	NC	NC
189		5	max	0.001	19	0.001	19	NC	NC	NC	NC
190			min	-0.001	13	-0.001	13	NC	NC	NC	NC
191	F1_G1	1	max	0	13	0	13	NC	NC	NC	NC
192			min	0	19	0	19	NC	NC	NC	NC
193		2	max	0	13	0	13	NC	NC	NC	NC
194			min	0	19	0	19	NC	NC	NC	NC
195		3	max	0	13	0	13	NC	NC	NC	NC
196			min	0	19	0	19	NC	NC	NC	NC
197		4	max	0	13	0	13	NC	NC	NC	NC
198			min	0	19	0	19	NC	NC	NC	NC
199		5	max	0	13	0	13	NC	NC	NC	NC
200			min	0	19	0	19	NC	NC	NC	NC
201	F1_G3	1	max	0	13	0	13	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
202			min	0	19	0	19	NC	NC	NC	NC
203		2	max	0	13	0	13	NC	NC	NC	NC
204			min	0	19	0	19	NC	NC	NC	NC
205		3	max	0	13	0	13	NC	NC	NC	NC
206			min	0	19	0	19	NC	NC	NC	NC
207		4	max	0	13	0	13	NC	NC	NC	NC
208			min	0	19	0	19	NC	NC	NC	NC
209		5	max	0	13	0	13	NC	NC	NC	NC
210			min	0	19	0	19	NC	NC	NC	NC
211	F1_G5	1	max	0	13	0	13	NC	NC	NC	NC
212			min	0	19	0	19	NC	NC	NC	NC
213		2	max	0	13	0	13	NC	NC	NC	NC
214			min	0	19	0	19	NC	NC	NC	NC
215		3	max	0	13	0	13	NC	NC	NC	NC
216			min	0	19	0	19	NC	NC	NC	NC
217		4	max	0	13	0	13	NC	NC	NC	NC
218			min	0	19	0	19	NC	NC	NC	NC
219		5	max	0	13	0	13	NC	NC	NC	NC
220			min	0	19	0	19	NC	NC	NC	NC
221	F1_G6	1	max	0	13	0	13	NC	NC	NC	NC
222			min	0	23	0	23	NC	NC	NC	NC
223		2	max	0	13	0	13	NC	NC	NC	NC
224			min	0	23	0	23	NC	NC	NC	NC
225		3	max	0	13	0	13	NC	NC	NC	NC
226			min	0	23	0	23	NC	NC	NC	NC
227		4	max	0	13	0	13	NC	NC	NC	NC
228			min	0	23	0	23	NC	NC	NC	NC
229		5	max	0	13	0	13	NC	NC	NC	NC
230			min	0	23	0	23	NC	NC	NC	NC
231	F1_G8	1	max	0	13	0	13	NC	NC	NC	NC
232			min	0	23	0	23	NC	NC	NC	NC
233		2	max	0	13	0	13	NC	NC	NC	NC
234			min	0	23	0	23	NC	NC	NC	NC
235		3	max	0	13	0	13	NC	NC	NC	NC
236			min	0	23	0	23	NC	NC	NC	NC
237		4	max	0	13	0	13	NC	NC	NC	NC
238			min	0	23	0	23	NC	NC	NC	NC
239		5	max	0	13	0	13	NC	NC	NC	NC
240			min	0	23	0	23	NC	NC	NC	NC
241	F1_G10	1	max	0	13	0	13	NC	NC	NC	NC
242			min	0	23	0	23	NC	NC	NC	NC
243		2	max	0	13	0	13	NC	NC	NC	NC
244			min	0	23	0	23	NC	NC	NC	NC
245		3	max	0	13	0	13	NC	NC	NC	NC
246			min	0	23	0	23	NC	NC	NC	NC
247		4	max	0	13	0	13	NC	NC	NC	NC
248			min	0	23	0	23	NC	NC	NC	NC
249		5	max	0	13	0	13	NC	NC	NC	NC
250			min	0	23	0	23	NC	NC	NC	NC
251	F1_G11	1	max	0	21	0.001	21	NC	NC	NC	NC
252			min	0	15	-0.001	15	NC	NC	NC	NC
253		2	max	0	21	0.001	21	NC	NC	NC	NC
254			min	0	15	-0.001	15	NC	NC	NC	NC
255		3	max	0	21	0.001	21	NC	NC	NC	NC
256			min	0	15	-0.001	15	NC	NC	NC	NC
257		4	max	0	21	0.001	21	NC	NC	NC	NC
258			min	0	15	-0.001	15	NC	NC	NC	NC
259		5	max	0	21	0.001	21	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
260			min	0	15	-0.001	15	NC	NC	NC	NC
261	F1_G12	1	max	-0.002	23	-0.02	23	NC	NC	NC	NC
262			min	-0.012	4	-0.119	4	NC	NC	NC	NC
263		2	max	-0.002	23	-0.02	23	NC	NC	NC	NC
264			min	-0.012	4	-0.119	4	NC	NC	NC	NC
265		3	max	-0.002	23	-0.02	23	NC	NC	NC	NC
266			min	-0.012	4	-0.119	4	NC	NC	NC	NC
267		4	max	-0.002	23	-0.02	23	NC	NC	NC	NC
268			min	-0.012	4	-0.119	4	NC	NC	NC	NC
269		5	max	-0.002	23	-0.02	23	NC	NC	NC	NC
270			min	-0.012	4	-0.119	4	NC	NC	NC	NC
271	F1_G13	1	max	0.006	7	0.058	7	NC	NC	NC	NC
272			min	-0.001	21	-0.005	21	NC	NC	NC	NC
273		2	max	0.006	7	0.058	7	NC	NC	NC	NC
274			min	-0.001	21	-0.005	21	NC	NC	NC	NC
275		3	max	0.006	7	0.058	7	NC	NC	NC	NC
276			min	-0.001	21	-0.005	21	NC	NC	NC	NC
277		4	max	0.006	7	0.057	7	NC	NC	NC	NC
278			min	-0.001	21	-0.005	21	NC	NC	NC	NC
279		5	max	0.006	7	0.057	7	NC	NC	NC	NC
280			min	-0.001	21	-0.005	21	NC	NC	NC	NC
281	F1_G14	1	max	0.003	5	0.08	5	NC	NC	NC	NC
282			min	0	23	0.007	23	NC	NC	NC	NC
283		2	max	0.003	5	0.08	5	NC	NC	NC	NC
284			min	0	23	0.007	23	NC	NC	NC	NC
285		3	max	0.003	5	0.08	5	NC	NC	NC	NC
286			min	0	23	0.007	23	NC	NC	NC	NC
287		4	max	0.003	5	0.08	5	NC	NC	NC	NC
288			min	0	23	0.007	23	NC	NC	NC	NC
289		5	max	0.003	5	0.08	5	NC	NC	NC	NC
290			min	0	23	0.007	23	NC	NC	NC	NC
291	F1_G17	1	max	0.018	5	0.281	5	NC	NC	NC	NC
292			min	0.004	23	0.06	23	NC	NC	NC	NC
293		2	max	0.018	5	0.281	5	NC	NC	NC	NC
294			min	0.004	23	0.06	23	NC	NC	NC	NC
295		3	max	0.016	5	0.252	5	NC	NC	NC	NC
296			min	0.003	23	0.051	23	NC	NC	NC	NC
297		4	max	0.014	5	0.223	5	NC	NC	NC	NC
298			min	0.003	23	0.046	23	NC	NC	NC	NC
299		5	max	0.014	5	0.223	5	NC	NC	NC	NC
300			min	0.003	23	0.046	23	NC	NC	NC	NC
301	F1_G18	1	max	-0.033	23	-0.1	23	NC	NC	NC	NC
302			min	-0.183	5	-0.557	5	NC	NC	NC	NC
303		2	max	-0.033	23	-0.1	23	NC	NC	NC	NC
304			min	-0.183	5	-0.557	5	NC	NC	NC	NC
305		3	max	-0.032	23	-0.099	23	NC	NC	NC	NC
306			min	-0.181	5	-0.552	5	NC	NC	NC	NC
307		4	max	-0.032	23	-0.096	23	NC	NC	NC	NC
308			min	-0.18	5	-0.548	5	NC	NC	NC	NC
309		5	max	-0.032	23	-0.096	23	NC	NC	NC	NC
310			min	-0.18	5	-0.548	5	NC	NC	NC	NC
311	F1_G21	1	max	0.01	7	0.01	7	NC	NC	NC	NC
312			min	-0.001	21	-0.001	21	NC	NC	NC	NC
313		2	max	0.01	7	0.01	7	NC	NC	NC	NC
314			min	-0.001	21	-0.001	21	NC	NC	NC	NC
315		3	max	0.01	7	0.01	7	NC	NC	NC	NC
316			min	-0.001	21	-0.001	21	NC	NC	NC	NC
317		4	max	0.01	7	0.01	7	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
318			min	-0.001	21	-0.001	21	NC	NC	NC	NC
319		5	max	0.01	7	0.01	7	NC	NC	NC	NC
320			min	-0.001	21	-0.001	21	NC	NC	NC	NC
321	F1_G22	1	max	-0.003	21	-0.024	21	NC	NC	NC	NC
322			min	-0.02	7	-0.143	7	NC	NC	NC	NC
323		2	max	-0.003	21	-0.024	21	NC	NC	NC	NC
324			min	-0.02	7	-0.143	7	NC	NC	NC	NC
325		3	max	-0.003	21	-0.024	21	NC	NC	NC	NC
326			min	-0.02	7	-0.143	7	NC	NC	NC	NC
327		4	max	0.108	7	0.756	7	NC	NC	NC	NC
328			min	0.027	21	0.191	21	NC	NC	NC	NC
329		5	max	0.108	7	0.756	7	NC	NC	NC	NC
330			min	0.027	21	0.191	21	NC	NC	NC	NC
331	F1_G23	1	max	-0.003	21	-0.012	21	NC	NC	NC	NC
332			min	-0.022	7	-0.081	7	NC	NC	NC	NC
333		2	max	-0.003	21	-0.012	21	NC	NC	NC	NC
334			min	-0.022	7	-0.081	7	NC	NC	NC	NC
335		3	max	-0.003	21	-0.012	21	NC	NC	NC	NC
336			min	-0.022	7	-0.081	7	NC	NC	NC	NC
337		4	max	-0.003	21	-0.012	21	NC	NC	NC	NC
338			min	-0.022	7	-0.081	7	NC	NC	NC	NC
339		5	max	-0.003	21	-0.012	21	NC	NC	NC	NC
340			min	-0.022	7	-0.081	7	NC	NC	NC	NC
341	F1_G24	1	max	0	23	0.002	23	NC	NC	NC	NC
342			min	-0.001	5	-0.032	5	NC	NC	NC	NC
343		2	max	0	23	0.002	23	NC	NC	NC	NC
344			min	-0.001	5	-0.032	5	NC	NC	NC	NC
345		3	max	0	23	0.002	23	NC	NC	NC	NC
346			min	-0.001	5	-0.032	5	NC	NC	NC	NC
347		4	max	0	23	0.002	23	NC	NC	NC	NC
348			min	-0.001	5	-0.032	5	NC	NC	NC	NC
349		5	max	0	23	0.002	23	NC	NC	NC	NC
350			min	-0.001	5	-0.032	5	NC	NC	NC	NC
351	F1_G25	1	max	0.006	7	0.139	7	NC	NC	NC	NC
352			min	0.001	21	0.034	21	NC	NC	NC	NC
353		2	max	0.006	7	0.139	7	NC	NC	NC	NC
354			min	0.001	21	0.034	21	NC	NC	NC	NC
355		3	max	0.006	7	0.139	7	NC	NC	NC	NC
356			min	0.001	21	0.034	21	NC	NC	NC	NC
357		4	max	0.006	7	0.139	7	NC	NC	NC	NC
358			min	0.001	21	0.034	21	NC	NC	NC	NC
359		5	max	0.006	7	0.139	7	NC	NC	NC	NC
360			min	0.001	21	0.034	21	NC	NC	NC	NC
361	F1_G26	1	max	0.001	7	0.016	7	NC	NC	NC	NC
362			min	0	21	-0.002	21	NC	NC	NC	NC
363		2	max	0.001	7	0.016	7	NC	NC	NC	NC
364			min	0	21	-0.002	21	NC	NC	NC	NC
365		3	max	0.001	7	0.016	7	NC	NC	NC	NC
366			min	0	21	-0.002	21	NC	NC	NC	NC
367		4	max	0.001	7	0.016	7	NC	NC	NC	NC
368			min	0	21	-0.002	21	NC	NC	NC	NC
369		5	max	0.001	7	0.016	7	NC	NC	NC	NC
370			min	0	21	-0.002	21	NC	NC	NC	NC
371	F1_G29	1	max	0	21	0	21	NC	NC	NC	NC
372			min	0	15	0	15	NC	NC	NC	NC
373		2	max	0	21	0	21	NC	NC	NC	NC
374			min	0	15	0	15	NC	NC	NC	NC
375		3	max	0	21	0	21	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
376			min	0	15	0	15	NC	NC	NC	NC
377		4	max	0	21	0	21	NC	NC	NC	NC
378			min	0	15	0	15	NC	NC	NC	NC
379		5	max	0	21	0	21	NC	NC	NC	NC
380			min	0	15	0	15	NC	NC	NC	NC
381	F1_G31	1	max	0	13	0.001	13	NC	NC	NC	NC
382			min	0	19	-0.001	19	NC	NC	NC	NC
383		2	max	0	13	0.001	13	NC	NC	NC	NC
384			min	0	19	-0.001	19	NC	NC	NC	NC
385		3	max	0	13	0.001	13	NC	NC	NC	NC
386			min	0	19	-0.001	19	NC	NC	NC	NC
387		4	max	0	13	0.001	13	NC	NC	NC	NC
388			min	0	19	-0.001	19	NC	NC	NC	NC
389		5	max	0	13	0.001	13	NC	NC	NC	NC
390			min	0	19	-0.001	19	NC	NC	NC	NC
391	F1_G33	1	max	0	13	0	13	NC	NC	NC	NC
392			min	0	19	0	19	NC	NC	NC	NC
393		2	max	0	13	0	13	NC	NC	NC	NC
394			min	0	19	0	19	NC	NC	NC	NC
395		3	max	0	13	0	13	NC	NC	NC	NC
396			min	0	19	0	19	NC	NC	NC	NC
397		4	max	0	13	0	13	NC	NC	NC	NC
398			min	0	19	0	19	NC	NC	NC	NC
399		5	max	0	13	0	13	NC	NC	NC	NC
400			min	0	19	0	19	NC	NC	NC	NC
401	F1_G34	1	max	0	23	0.003	23	NC	NC	NC	NC
402			min	0	5	-0.005	5	NC	NC	NC	NC
403		2	max	0	23	0.003	23	NC	NC	NC	NC
404			min	0	5	-0.005	5	NC	NC	NC	NC
405		3	max	0	23	0.003	23	NC	NC	NC	NC
406			min	0	5	-0.005	5	NC	NC	NC	NC
407		4	max	0	23	0.003	23	NC	NC	NC	NC
408			min	0	5	-0.005	5	NC	NC	NC	NC
409		5	max	0	23	0.003	23	NC	NC	NC	NC
410			min	0	5	-0.005	5	NC	NC	NC	NC
411	F1_G35	1	max	0	13	0	13	NC	NC	NC	NC
412			min	0	23	0	23	NC	NC	NC	NC
413		2	max	0	13	0	13	NC	NC	NC	NC
414			min	0	23	0	23	NC	NC	NC	NC
415		3	max	0	13	0	13	NC	NC	NC	NC
416			min	0	23	0	23	NC	NC	NC	NC
417		4	max	0	13	0	13	NC	NC	NC	NC
418			min	0	23	0	23	NC	NC	NC	NC
419		5	max	0	13	0	13	NC	NC	NC	NC
420			min	0	23	0	23	NC	NC	NC	NC
421	F1_G37	1	max	0.059	7	0.181	7	NC	NC	NC	NC
422			min	0.012	21	0.037	21	NC	NC	NC	NC
423		2	max	0.059	7	0.181	7	NC	NC	NC	NC
424			min	0.012	21	0.037	21	NC	NC	NC	NC
425		3	max	0.059	7	0.181	7	NC	NC	NC	NC
426			min	0.012	21	0.037	21	NC	NC	NC	NC
427		4	max	0.059	7	0.181	7	NC	NC	NC	NC
428			min	0.012	21	0.037	21	NC	NC	NC	NC
429		5	max	0.059	7	0.181	7	NC	NC	NC	NC
430			min	0.012	21	0.037	21	NC	NC	NC	NC
431	F1_G38	1	max	0	13	0.001	13	NC	NC	NC	NC
432			min	0	19	-0.001	19	NC	NC	NC	NC
433		2	max	0	13	0.001	13	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
434			min	0	19	-0.001	19	NC	NC	NC	NC
435		3	max	0	13	0.001	13	NC	NC	NC	NC
436			min	0	19	-0.001	19	NC	NC	NC	NC
437		4	max	0	13	0.001	13	NC	NC	NC	NC
438			min	0	19	-0.001	19	NC	NC	NC	NC
439		5	max	0	13	0.001	13	NC	NC	NC	NC
440			min	0	19	-0.001	19	NC	NC	NC	NC
441	F1_G39	1	max	0.014	5	0.146	5	NC	NC	NC	NC
442			min	0.003	23	0.031	23	NC	NC	NC	NC
443		2	max	0.014	5	0.146	5	NC	NC	NC	NC
444			min	0.003	23	0.031	23	NC	NC	NC	NC
445		3	max	0.014	5	0.146	5	NC	NC	NC	NC
446			min	0.003	23	0.031	23	NC	NC	NC	NC
447		4	max	0.014	5	0.146	5	NC	NC	NC	NC
448			min	0.003	23	0.031	23	NC	NC	NC	NC
449		5	max	0.014	5	0.146	5	NC	NC	NC	NC
450			min	0.003	23	0.031	23	NC	NC	NC	NC
451	F1_G40	1	max	0.003	5	0.035	5	NC	NC	NC	NC
452			min	0.001	23	0.008	23	NC	NC	NC	NC
453		2	max	0.003	5	0.035	5	NC	NC	NC	NC
454			min	0.001	23	0.008	23	NC	NC	NC	NC
455		3	max	0.003	5	0.035	5	NC	NC	NC	NC
456			min	0.001	23	0.008	23	NC	NC	NC	NC
457		4	max	0.003	5	0.035	5	NC	NC	NC	NC
458			min	0.001	23	0.008	23	NC	NC	NC	NC
459		5	max	0.003	5	0.035	5	NC	NC	NC	NC
460			min	0.001	23	0.008	23	NC	NC	NC	NC
461	F1_G41	1	max	-0.004	21	-0.037	21	NC	NC	NC	NC
462			min	-0.016	7	-0.157	7	NC	NC	NC	NC
463		2	max	-0.004	21	-0.037	21	NC	NC	NC	NC
464			min	-0.016	7	-0.157	7	NC	NC	NC	NC
465		3	max	-0.004	21	-0.037	21	NC	NC	NC	NC
466			min	-0.016	7	-0.157	7	NC	NC	NC	NC
467		4	max	-0.004	21	-0.037	21	NC	NC	NC	NC
468			min	-0.016	7	-0.157	7	NC	NC	NC	NC
469		5	max	-0.004	21	-0.037	21	NC	NC	NC	NC
470			min	-0.016	7	-0.157	7	NC	NC	NC	NC
471	F1_G42	1	max	0	13	0	13	NC	NC	NC	NC
472			min	0	19	0	19	NC	NC	NC	NC
473		2	max	0	13	0	13	NC	NC	NC	NC
474			min	0	19	0	19	NC	NC	NC	NC
475		3	max	0	13	0	13	NC	NC	NC	NC
476			min	0	19	0	19	NC	NC	NC	NC
477		4	max	0	13	0	13	NC	NC	NC	NC
478			min	0	19	0	19	NC	NC	NC	NC
479		5	max	0	13	0	13	NC	NC	NC	NC
480			min	0	19	0	19	NC	NC	NC	NC
481	F1_G43	1	max	0	13	0	13	NC	NC	NC	NC
482			min	0	19	0	19	NC	NC	NC	NC
483		2	max	0	13	0	13	NC	NC	NC	NC
484			min	0	19	0	19	NC	NC	NC	NC
485		3	max	0	13	0	13	NC	NC	NC	NC
486			min	0	19	0	19	NC	NC	NC	NC
487		4	max	0	13	0	13	NC	NC	NC	NC
488			min	0	19	0	19	NC	NC	NC	NC
489		5	max	0	13	0	13	NC	NC	NC	NC
490			min	0	19	0	19	NC	NC	NC	NC
491	F1_G44	1	max	0	13	0	13	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
492			min	0	23	0	23	NC	NC	NC	NC
493		2	max	0	13	0	13	NC	NC	NC	NC
494			min	0	23	0	23	NC	NC	NC	NC
495		3	max	0	13	0	13	NC	NC	NC	NC
496			min	0	23	0	23	NC	NC	NC	NC
497		4	max	0	13	0	13	NC	NC	NC	NC
498			min	0	23	0	23	NC	NC	NC	NC
499		5	max	0	13	0	13	NC	NC	NC	NC
500			min	0	23	0	23	NC	NC	NC	NC
501	F1_G45	1	max	0	13	0	13	NC	NC	NC	NC
502			min	0	23	0	23	NC	NC	NC	NC
503		2	max	0	13	0	13	NC	NC	NC	NC
504			min	0	23	0	23	NC	NC	NC	NC
505		3	max	0	13	0	13	NC	NC	NC	NC
506			min	0	23	0	23	NC	NC	NC	NC
507		4	max	0	13	0	13	NC	NC	NC	NC
508			min	0	23	0	23	NC	NC	NC	NC
509		5	max	0	13	0	13	NC	NC	NC	NC
510			min	0	23	0	23	NC	NC	NC	NC
511	F1_G46	1	max	0.001	5	0.029	5	NC	NC	NC	NC
512			min	0	23	0.01	23	NC	NC	NC	NC
513		2	max	0.001	5	0.029	5	NC	NC	NC	NC
514			min	0	23	0.01	23	NC	NC	NC	NC
515		3	max	0.001	5	0.029	5	NC	NC	NC	NC
516			min	0	23	0.01	23	NC	NC	NC	NC
517		4	max	0.001	5	0.029	5	NC	NC	NC	NC
518			min	0	23	0.01	23	NC	NC	NC	NC
519		5	max	0.001	5	0.029	5	NC	NC	NC	NC
520			min	0	23	0.01	23	NC	NC	NC	NC
521	F1_G47	1	max	0	23	0	23	NC	NC	NC	NC
522			min	0	13	0	13	NC	NC	NC	NC
523		2	max	0	23	0	23	NC	NC	NC	NC
524			min	0	13	0	13	NC	NC	NC	NC
525		3	max	0	23	0	23	NC	NC	NC	NC
526			min	0	13	0	13	NC	NC	NC	NC
527		4	max	0	23	0	23	NC	NC	NC	NC
528			min	0	13	0	13	NC	NC	NC	NC
529		5	max	0	23	0	23	NC	NC	NC	NC
530			min	0	13	0	13	NC	NC	NC	NC
531	F1_G48	1	max	0	21	-0.01	21	NC	NC	NC	NC
532			min	-0.001	7	-0.028	7	NC	NC	NC	NC
533		2	max	0	21	-0.01	21	NC	NC	NC	NC
534			min	-0.001	7	-0.028	7	NC	NC	NC	NC
535		3	max	0	21	-0.01	21	NC	NC	NC	NC
536			min	-0.001	7	-0.028	7	NC	NC	NC	NC
537		4	max	0	21	-0.01	21	NC	NC	NC	NC
538			min	-0.001	7	-0.028	7	NC	NC	NC	NC
539		5	max	0	21	-0.01	21	NC	NC	NC	NC
540			min	-0.001	7	-0.028	7	NC	NC	NC	NC
541	F1_G49	1	max	0	23	-0.009	23	NC	NC	NC	NC
542			min	-0.001	5	-0.026	5	NC	NC	NC	NC
543		2	max	0	23	-0.009	23	NC	NC	NC	NC
544			min	-0.001	5	-0.026	5	NC	NC	NC	NC
545		3	max	0	23	-0.009	23	NC	NC	NC	NC
546			min	-0.001	5	-0.026	5	NC	NC	NC	NC
547		4	max	0	23	-0.009	23	NC	NC	NC	NC
548			min	-0.001	5	-0.026	5	NC	NC	NC	NC
549		5	max	0	23	-0.009	23	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
550			min	-0.001	5	-0.026	5	NC	NC	NC	NC
551	F1_G50	1	max	0	21	0	21	NC	NC	NC	NC
552			min	0	7	0	7	NC	NC	NC	NC
553		2	max	0	21	0	21	NC	NC	NC	NC
554			min	0	7	0	7	NC	NC	NC	NC
555		3	max	0	21	0	21	NC	NC	NC	NC
556			min	0	7	0	7	NC	NC	NC	NC
557		4	max	0	21	0	21	NC	NC	NC	NC
558			min	0	7	0	7	NC	NC	NC	NC
559		5	max	0	21	0	21	NC	NC	NC	NC
560			min	0	7	0	7	NC	NC	NC	NC
561	F1_G51	1	max	0.001	7	0.026	7	NC	NC	NC	NC
562			min	0	21	0.009	21	NC	NC	NC	NC
563		2	max	0.001	7	0.026	7	NC	NC	NC	NC
564			min	0	21	0.009	21	NC	NC	NC	NC
565		3	max	0.001	7	0.026	7	NC	NC	NC	NC
566			min	0	21	0.009	21	NC	NC	NC	NC
567		4	max	0.001	7	0.026	7	NC	NC	NC	NC
568			min	0	21	0.009	21	NC	NC	NC	NC
569		5	max	0.001	7	0.026	7	NC	NC	NC	NC
570			min	0	21	0.009	21	NC	NC	NC	NC
571	F1_G52	1	max	0.003	7	0.068	7	NC	NC	NC	NC
572			min	0.001	21	0.022	21	NC	NC	NC	NC
573		2	max	0.003	7	0.068	7	NC	NC	NC	NC
574			min	0.001	21	0.022	21	NC	NC	NC	NC
575		3	max	0.003	7	0.068	7	NC	NC	NC	NC
576			min	0.001	21	0.022	21	NC	NC	NC	NC
577		4	max	0.003	7	0.068	7	NC	NC	NC	NC
578			min	0.001	21	0.022	21	NC	NC	NC	NC
579		5	max	0.003	7	0.068	7	NC	NC	NC	NC
580			min	0.001	21	0.022	21	NC	NC	NC	NC
581	F1_G53	1	max	0	7	0	7	NC	NC	NC	NC
582			min	0	21	0	21	NC	NC	NC	NC
583		2	max	0	7	0	7	NC	NC	NC	NC
584			min	0	21	0	21	NC	NC	NC	NC
585		3	max	0	7	0	7	NC	NC	NC	NC
586			min	0	21	0	21	NC	NC	NC	NC
587		4	max	0	7	0	7	NC	NC	NC	NC
588			min	0	21	0	21	NC	NC	NC	NC
589		5	max	0	7	0	7	NC	NC	NC	NC
590			min	0	21	0	21	NC	NC	NC	NC
591	F1_G54	1	max	0	23	-0.009	23	NC	NC	NC	NC
592			min	-0.001	5	-0.026	5	NC	NC	NC	NC
593		2	max	0	23	-0.009	23	NC	NC	NC	NC
594			min	-0.001	5	-0.026	5	NC	NC	NC	NC
595		3	max	0	23	-0.009	23	NC	NC	NC	NC
596			min	-0.001	5	-0.026	5	NC	NC	NC	NC
597		4	max	0	23	-0.009	23	NC	NC	NC	NC
598			min	-0.001	5	-0.026	5	NC	NC	NC	NC
599		5	max	0	23	-0.009	23	NC	NC	NC	NC
600			min	-0.001	5	-0.026	5	NC	NC	NC	NC
601	F1_G55	1	max	-0.001	22	-0.027	22	NC	NC	NC	NC
602			min	-0.003	8	-0.08	8	NC	NC	NC	NC
603		2	max	-0.001	22	-0.027	22	NC	NC	NC	NC
604			min	-0.003	8	-0.08	8	NC	NC	NC	NC
605		3	max	-0.001	22	-0.027	22	NC	NC	NC	NC
606			min	-0.003	8	-0.08	8	NC	NC	NC	NC
607		4	max	-0.001	22	-0.027	22	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
608			min	-0.003	8	-0.08	8	NC	NC	NC	NC
609		5	max	-0.001	22	-0.027	22	NC	NC	NC	NC
610			min	-0.003	8	-0.08	8	NC	NC	NC	NC
611	F1_G56	1	max	0	23	0	23	NC	NC	NC	NC
612			min	0	5	0	5	NC	NC	NC	NC
613		2	max	0	23	0	23	NC	NC	NC	NC
614			min	0	5	0	5	NC	NC	NC	NC
615		3	max	0	23	0	23	NC	NC	NC	NC
616			min	0	5	0	5	NC	NC	NC	NC
617		4	max	0	23	0	23	NC	NC	NC	NC
618			min	0	5	0	5	NC	NC	NC	NC
619		5	max	0	23	0	23	NC	NC	NC	NC
620			min	0	5	0	5	NC	NC	NC	NC
621	F1_G57	1	max	0.001	7	0.03	7	NC	NC	NC	NC
622			min	0	21	0.01	21	NC	NC	NC	NC
623		2	max	0.001	7	0.03	7	NC	NC	NC	NC
624			min	0	21	0.01	21	NC	NC	NC	NC
625		3	max	0.001	7	0.03	7	NC	NC	NC	NC
626			min	0	21	0.01	21	NC	NC	NC	NC
627		4	max	0.001	7	0.03	7	NC	NC	NC	NC
628			min	0	21	0.01	21	NC	NC	NC	NC
629		5	max	0.001	7	0.03	7	NC	NC	NC	NC
630			min	0	21	0.01	21	NC	NC	NC	NC
631	F1_J54	1	max	0.002	5	0.041	5	NC	NC	NC	NC
632			min	0.001	23	0.014	23	NC	NC	NC	NC
633		2	max	0.002	5	0.041	5	NC	NC	NC	NC
634			min	0.001	23	0.014	23	NC	NC	NC	NC
635		3	max	0.002	5	0.041	5	NC	NC	NC	NC
636			min	0.001	23	0.014	23	NC	NC	NC	NC
637		4	max	0.002	5	0.041	5	NC	NC	NC	NC
638			min	0.001	23	0.014	23	NC	NC	NC	NC
639		5	max	0.002	5	0.041	5	NC	NC	NC	NC
640			min	0.001	23	0.014	23	NC	NC	NC	NC
641	F1_J55	1	max	0.001	5	0.027	5	NC	NC	NC	NC
642			min	0	23	0.009	23	NC	NC	NC	NC
643		2	max	0.001	5	0.027	5	NC	NC	NC	NC
644			min	0	23	0.009	23	NC	NC	NC	NC
645		3	max	0.001	5	0.027	5	NC	NC	NC	NC
646			min	0	23	0.009	23	NC	NC	NC	NC
647		4	max	0.001	5	0.027	5	NC	NC	NC	NC
648			min	0	23	0.009	23	NC	NC	NC	NC
649		5	max	0.001	5	0.027	5	NC	NC	NC	NC
650			min	0	23	0.009	23	NC	NC	NC	NC
651	F1_J56	1	max	0	5	0.007	5	NC	NC	NC	NC
652			min	0	23	0.003	23	NC	NC	NC	NC
653		2	max	0	5	0.007	5	NC	NC	NC	NC
654			min	0	23	0.003	23	NC	NC	NC	NC
655		3	max	0	5	0.007	5	NC	NC	NC	NC
656			min	0	23	0.003	23	NC	NC	NC	NC
657		4	max	0	5	0.007	5	NC	NC	NC	NC
658			min	0	23	0.003	23	NC	NC	NC	NC
659		5	max	0	5	0.007	5	NC	NC	NC	NC
660			min	0	23	0.003	23	NC	NC	NC	NC
661	F1_J57	1	max	0	21	-0.004	21	NC	NC	NC	NC
662			min	-0.001	7	-0.012	7	NC	NC	NC	NC
663		2	max	0	21	-0.004	21	NC	NC	NC	NC
664			min	-0.001	7	-0.012	7	NC	NC	NC	NC
665		3	max	0	21	-0.004	21	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
666			min	-0.001	7	-0.012	7	NC	NC	NC	NC
667		4	max	0	21	-0.004	21	NC	NC	NC	NC
668			min	-0.001	7	-0.012	7	NC	NC	NC	NC
669		5	max	0	21	-0.004	21	NC	NC	NC	NC
670			min	-0.001	7	-0.012	7	NC	NC	NC	NC
671	F1_J58	1	max	0	21	-0.01	21	NC	NC	NC	NC
672			min	-0.001	7	-0.028	7	NC	NC	NC	NC
673		2	max	0	21	-0.01	21	NC	NC	NC	NC
674			min	-0.001	7	-0.028	7	NC	NC	NC	NC
675		3	max	0	21	-0.01	21	NC	NC	NC	NC
676			min	-0.001	7	-0.028	7	NC	NC	NC	NC
677		4	max	0	21	-0.01	21	NC	NC	NC	NC
678			min	-0.001	7	-0.028	7	NC	NC	NC	NC
679		5	max	0	21	-0.01	21	NC	NC	NC	NC
680			min	-0.001	7	-0.028	7	NC	NC	NC	NC
681	F1_J59	1	max	-0.001	21	-0.012	21	NC	NC	NC	NC
682			min	-0.001	7	-0.035	7	NC	NC	NC	NC
683		2	max	-0.001	21	-0.012	21	NC	NC	NC	NC
684			min	-0.001	7	-0.035	7	NC	NC	NC	NC
685		3	max	-0.001	21	-0.012	21	NC	NC	NC	NC
686			min	-0.001	7	-0.035	7	NC	NC	NC	NC
687		4	max	-0.001	21	-0.012	21	NC	NC	NC	NC
688			min	-0.001	7	-0.035	7	NC	NC	NC	NC
689		5	max	-0.001	21	-0.012	21	NC	NC	NC	NC
690			min	-0.001	7	-0.035	7	NC	NC	NC	NC
691	F1_J60	1	max	0	21	-0.008	21	NC	NC	NC	NC
692			min	-0.001	7	-0.022	7	NC	NC	NC	NC
693		2	max	0	21	-0.008	21	NC	NC	NC	NC
694			min	-0.001	7	-0.022	7	NC	NC	NC	NC
695		3	max	0	21	-0.008	21	NC	NC	NC	NC
696			min	-0.001	7	-0.022	7	NC	NC	NC	NC
697		4	max	0	21	-0.008	21	NC	NC	NC	NC
698			min	-0.001	7	-0.022	7	NC	NC	NC	NC
699		5	max	0	21	-0.008	21	NC	NC	NC	NC
700			min	-0.001	7	-0.022	7	NC	NC	NC	NC
701	F1_J61	1	max	0.001	7	0.03	7	NC	NC	NC	NC
702			min	0	21	0.01	21	NC	NC	NC	NC
703		2	max	0.001	7	0.03	7	NC	NC	NC	NC
704			min	0	21	0.01	21	NC	NC	NC	NC
705		3	max	0.001	7	0.03	7	NC	NC	NC	NC
706			min	0	21	0.01	21	NC	NC	NC	NC
707		4	max	0.001	7	0.03	7	NC	NC	NC	NC
708			min	0	21	0.01	21	NC	NC	NC	NC
709		5	max	0.001	7	0.03	7	NC	NC	NC	NC
710			min	0	21	0.01	21	NC	NC	NC	NC
711	F1_J62	1	max	0.001	7	0.012	7	NC	NC	NC	NC
712			min	0	21	0.004	21	NC	NC	NC	NC
713		2	max	0.001	7	0.012	7	NC	NC	NC	NC
714			min	0	21	0.004	21	NC	NC	NC	NC
715		3	max	0.001	7	0.012	7	NC	NC	NC	NC
716			min	0	21	0.004	21	NC	NC	NC	NC
717		4	max	0.001	7	0.012	7	NC	NC	NC	NC
718			min	0	21	0.004	21	NC	NC	NC	NC
719		5	max	0.001	7	0.012	7	NC	NC	NC	NC
720			min	0	21	0.004	21	NC	NC	NC	NC
721	F1_J63	1	max	0	23	-0.004	23	NC	NC	NC	NC
722			min	0	5	-0.01	5	NC	NC	NC	NC
723		2	max	0	23	-0.004	23	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
724			min	0	5	-0.01	5	NC	NC	NC	NC
725		3	max	0	23	-0.004	23	NC	NC	NC	NC
726			min	0	5	-0.01	5	NC	NC	NC	NC
727		4	max	0	23	-0.004	23	NC	NC	NC	NC
728			min	0	5	-0.01	5	NC	NC	NC	NC
729		5	max	0	23	-0.004	23	NC	NC	NC	NC
730			min	0	5	-0.01	5	NC	NC	NC	NC
731	F1_J64	1	max	0	23	-0.01	23	NC	NC	NC	NC
732			min	-0.001	5	-0.029	5	NC	NC	NC	NC
733		2	max	0	23	-0.01	23	NC	NC	NC	NC
734			min	-0.001	5	-0.029	5	NC	NC	NC	NC
735		3	max	0	23	-0.01	23	NC	NC	NC	NC
736			min	-0.001	5	-0.029	5	NC	NC	NC	NC
737		4	max	0	23	-0.01	23	NC	NC	NC	NC
738			min	-0.001	5	-0.029	5	NC	NC	NC	NC
739		5	max	0	23	-0.01	23	NC	NC	NC	NC
740			min	-0.001	5	-0.029	5	NC	NC	NC	NC
741	F1_J65	1	max	0.001	7	0.015	7	NC	NC	NC	NC
742			min	0	21	0.005	21	NC	NC	NC	NC
743		2	max	0.001	7	0.015	7	NC	NC	NC	NC
744			min	0	21	0.005	21	NC	NC	NC	NC
745		3	max	0.001	7	0.015	7	NC	NC	NC	NC
746			min	0	21	0.005	21	NC	NC	NC	NC
747		4	max	0.001	7	0.015	7	NC	NC	NC	NC
748			min	0	21	0.005	21	NC	NC	NC	NC
749		5	max	0.001	7	0.015	7	NC	NC	NC	NC
750			min	0	21	0.005	21	NC	NC	NC	NC
751	F1_J66	1	max	0.002	7	0.038	7	NC	NC	NC	NC
752			min	0.001	21	0.013	21	NC	NC	NC	NC
753		2	max	0.002	7	0.038	7	NC	NC	NC	NC
754			min	0.001	21	0.013	21	NC	NC	NC	NC
755		3	max	0.002	7	0.038	7	NC	NC	NC	NC
756			min	0.001	21	0.013	21	NC	NC	NC	NC
757		4	max	0.002	7	0.038	7	NC	NC	NC	NC
758			min	0.001	21	0.013	21	NC	NC	NC	NC
759		5	max	0.002	7	0.038	7	NC	NC	NC	NC
760			min	0.001	21	0.013	21	NC	NC	NC	NC
761	F1_J67	1	max	0.001	5	0.03	5	NC	NC	NC	NC
762			min	0	23	0.01	23	NC	NC	NC	NC
763		2	max	0.001	5	0.03	5	NC	NC	NC	NC
764			min	0	23	0.01	23	NC	NC	NC	NC
765		3	max	0.001	5	0.03	5	NC	NC	NC	NC
766			min	0	23	0.01	23	NC	NC	NC	NC
767		4	max	0.001	5	0.03	5	NC	NC	NC	NC
768			min	0	23	0.01	23	NC	NC	NC	NC
769		5	max	0.001	5	0.03	5	NC	NC	NC	NC
770			min	0	23	0.01	23	NC	NC	NC	NC
771	F1_J68	1	max	0	5	0.011	5	NC	NC	NC	NC
772			min	0	23	0.004	23	NC	NC	NC	NC
773		2	max	0	5	0.011	5	NC	NC	NC	NC
774			min	0	23	0.004	23	NC	NC	NC	NC
775		3	max	0	5	0.011	5	NC	NC	NC	NC
776			min	0	23	0.004	23	NC	NC	NC	NC
777		4	max	0	5	0.011	5	NC	NC	NC	NC
778			min	0	23	0.004	23	NC	NC	NC	NC
779		5	max	0	5	0.011	5	NC	NC	NC	NC
780			min	0	23	0.004	23	NC	NC	NC	NC
781	F1_J69	1	max	0	21	-0.004	21	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
782			min	0	7	-0.011	7	NC	NC	NC	NC
783		2	max	0	21	-0.004	21	NC	NC	NC	NC
784			min	0	7	-0.011	7	NC	NC	NC	NC
785		3	max	0	21	-0.004	21	NC	NC	NC	NC
786			min	0	7	-0.011	7	NC	NC	NC	NC
787		4	max	0	21	-0.004	21	NC	NC	NC	NC
788			min	0	7	-0.011	7	NC	NC	NC	NC
789		5	max	0	21	-0.004	21	NC	NC	NC	NC
790			min	0	7	-0.011	7	NC	NC	NC	NC
791	F1_J70	1	max	0	24	-0.01	24	NC	NC	NC	NC
792			min	-0.001	6	-0.03	6	NC	NC	NC	NC
793		2	max	0	24	-0.01	24	NC	NC	NC	NC
794			min	-0.001	6	-0.03	6	NC	NC	NC	NC
795		3	max	0	24	-0.01	24	NC	NC	NC	NC
796			min	-0.001	6	-0.03	6	NC	NC	NC	NC
797		4	max	0	24	-0.01	24	NC	NC	NC	NC
798			min	-0.001	6	-0.03	6	NC	NC	NC	NC
799		5	max	0	24	-0.01	24	NC	NC	NC	NC
800			min	-0.001	6	-0.03	6	NC	NC	NC	NC
801	F1_J71	1	max	-0.001	23	-0.013	23	NC	NC	NC	NC
802			min	-0.002	5	-0.038	5	NC	NC	NC	NC
803		2	max	-0.001	23	-0.013	23	NC	NC	NC	NC
804			min	-0.002	5	-0.038	5	NC	NC	NC	NC
805		3	max	-0.001	23	-0.013	23	NC	NC	NC	NC
806			min	-0.002	5	-0.038	5	NC	NC	NC	NC
807		4	max	-0.001	23	-0.013	23	NC	NC	NC	NC
808			min	-0.002	5	-0.038	5	NC	NC	NC	NC
809		5	max	-0.001	23	-0.013	23	NC	NC	NC	NC
810			min	-0.002	5	-0.038	5	NC	NC	NC	NC
811	F1_J72	1	max	0	23	-0.005	23	NC	NC	NC	NC
812			min	-0.001	5	-0.015	5	NC	NC	NC	NC
813		2	max	0	23	-0.005	23	NC	NC	NC	NC
814			min	-0.001	5	-0.015	5	NC	NC	NC	NC
815		3	max	0	23	-0.005	23	NC	NC	NC	NC
816			min	-0.001	5	-0.015	5	NC	NC	NC	NC
817		4	max	0	23	-0.005	23	NC	NC	NC	NC
818			min	-0.001	5	-0.015	5	NC	NC	NC	NC
819		5	max	0	23	-0.005	23	NC	NC	NC	NC
820			min	-0.001	5	-0.015	5	NC	NC	NC	NC
821	F1_J73	1	max	0.001	5	0.029	5	NC	NC	NC	NC
822			min	0	23	0.01	23	NC	NC	NC	NC
823		2	max	0.001	5	0.029	5	NC	NC	NC	NC
824			min	0	23	0.01	23	NC	NC	NC	NC
825		3	max	0.001	5	0.029	5	NC	NC	NC	NC
826			min	0	23	0.01	23	NC	NC	NC	NC
827		4	max	0.001	5	0.029	5	NC	NC	NC	NC
828			min	0	23	0.01	23	NC	NC	NC	NC
829		5	max	0.001	5	0.029	5	NC	NC	NC	NC
830			min	0	23	0.01	23	NC	NC	NC	NC
831	F1_J74	1	max	0	5	0.01	5	NC	NC	NC	NC
832			min	0	23	0.003	23	NC	NC	NC	NC
833		2	max	0	5	0.01	5	NC	NC	NC	NC
834			min	0	23	0.003	23	NC	NC	NC	NC
835		3	max	0	5	0.01	5	NC	NC	NC	NC
836			min	0	23	0.003	23	NC	NC	NC	NC
837		4	max	0	5	0.01	5	NC	NC	NC	NC
838			min	0	23	0.003	23	NC	NC	NC	NC
839		5	max	0	5	0.01	5	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
840			min	0	23	0.003	23	NC	NC	NC	NC
841	F1_J75	1	max	0	21	-0.004	21	NC	NC	NC	NC
842			min	-0.001	7	-0.012	7	NC	NC	NC	NC
843		2	max	0	21	-0.004	21	NC	NC	NC	NC
844			min	-0.001	7	-0.012	7	NC	NC	NC	NC
845		3	max	0	21	-0.004	21	NC	NC	NC	NC
846			min	-0.001	7	-0.012	7	NC	NC	NC	NC
847		4	max	0	21	-0.004	21	NC	NC	NC	NC
848			min	-0.001	7	-0.012	7	NC	NC	NC	NC
849		5	max	0	21	-0.004	21	NC	NC	NC	NC
850			min	-0.001	7	-0.012	7	NC	NC	NC	NC
851	F1_J76	1	max	0	21	-0.01	21	NC	NC	NC	NC
852			min	-0.001	7	-0.03	7	NC	NC	NC	NC
853		2	max	0	21	-0.01	21	NC	NC	NC	NC
854			min	-0.001	7	-0.03	7	NC	NC	NC	NC
855		3	max	0	21	-0.01	21	NC	NC	NC	NC
856			min	-0.001	7	-0.03	7	NC	NC	NC	NC
857		4	max	0	21	-0.01	21	NC	NC	NC	NC
858			min	-0.001	7	-0.03	7	NC	NC	NC	NC
859		5	max	0	21	-0.01	21	NC	NC	NC	NC
860			min	-0.001	7	-0.03	7	NC	NC	NC	NC
861	F1_J77	1	max	0.001	7	0.022	7	NC	NC	NC	NC
862			min	0	21	0.008	21	NC	NC	NC	NC
863		2	max	0.001	7	0.022	7	NC	NC	NC	NC
864			min	0	21	0.008	21	NC	NC	NC	NC
865		3	max	0.001	7	0.022	7	NC	NC	NC	NC
866			min	0	21	0.008	21	NC	NC	NC	NC
867		4	max	0.001	7	0.022	7	NC	NC	NC	NC
868			min	0	21	0.008	21	NC	NC	NC	NC
869		5	max	0.001	7	0.022	7	NC	NC	NC	NC
870			min	0	21	0.008	21	NC	NC	NC	NC
871	F1_J78	1	max	0.001	5	0.035	5	NC	NC	NC	NC
872			min	0.001	22	0.012	22	NC	NC	NC	NC
873		2	max	0.001	5	0.035	5	NC	NC	NC	NC
874			min	0.001	22	0.012	22	NC	NC	NC	NC
875		3	max	0.001	5	0.035	5	NC	NC	NC	NC
876			min	0.001	22	0.012	22	NC	NC	NC	NC
877		4	max	0.001	5	0.035	5	NC	NC	NC	NC
878			min	0.001	22	0.012	22	NC	NC	NC	NC
879		5	max	0.001	5	0.035	5	NC	NC	NC	NC
880			min	0.001	22	0.012	22	NC	NC	NC	NC
881	F1_J79	1	max	0.001	5	0.029	5	NC	NC	NC	NC
882			min	0	23	0.01	23	NC	NC	NC	NC
883		2	max	0.001	5	0.029	5	NC	NC	NC	NC
884			min	0	23	0.01	23	NC	NC	NC	NC
885		3	max	0.001	5	0.029	5	NC	NC	NC	NC
886			min	0	23	0.01	23	NC	NC	NC	NC
887		4	max	0.001	5	0.029	5	NC	NC	NC	NC
888			min	0	23	0.01	23	NC	NC	NC	NC
889		5	max	0.001	5	0.029	5	NC	NC	NC	NC
890			min	0	23	0.01	23	NC	NC	NC	NC
891	F1_J80	1	max	0.001	5	0.013	5	NC	NC	NC	NC
892			min	0	23	0.004	23	NC	NC	NC	NC
893		2	max	0.001	5	0.013	5	NC	NC	NC	NC
894			min	0	23	0.004	23	NC	NC	NC	NC
895		3	max	0.001	5	0.013	5	NC	NC	NC	NC
896			min	0	23	0.004	23	NC	NC	NC	NC
897		4	max	0.001	5	0.013	5	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
898			min	0	23	0.004	23	NC	NC	NC	NC
899		5	max	0.001	5	0.013	5	NC	NC	NC	NC
900			min	0	23	0.004	23	NC	NC	NC	NC
901	F1_J81	1	max	0	21	-0.002	21	NC	NC	NC	NC
902			min	0	7	-0.007	7	NC	NC	NC	NC
903		2	max	0	21	-0.002	21	NC	NC	NC	NC
904			min	0	7	-0.007	7	NC	NC	NC	NC
905		3	max	0	21	-0.002	21	NC	NC	NC	NC
906			min	0	7	-0.007	7	NC	NC	NC	NC
907		4	max	0	21	-0.002	21	NC	NC	NC	NC
908			min	0	7	-0.007	7	NC	NC	NC	NC
909		5	max	0	21	-0.002	21	NC	NC	NC	NC
910			min	0	7	-0.007	7	NC	NC	NC	NC
911	F1_J82	1	max	0	21	-0.009	21	NC	NC	NC	NC
912			min	-0.001	7	-0.026	7	NC	NC	NC	NC
913		2	max	0	21	-0.009	21	NC	NC	NC	NC
914			min	-0.001	7	-0.026	7	NC	NC	NC	NC
915		3	max	0	21	-0.009	21	NC	NC	NC	NC
916			min	-0.001	7	-0.026	7	NC	NC	NC	NC
917		4	max	0	21	-0.009	21	NC	NC	NC	NC
918			min	-0.001	7	-0.026	7	NC	NC	NC	NC
919		5	max	0	21	-0.009	21	NC	NC	NC	NC
920			min	-0.001	7	-0.026	7	NC	NC	NC	NC
921	F1_J83	1	max	-0.001	21	-0.014	21	NC	NC	NC	NC
922			min	-0.002	7	-0.041	7	NC	NC	NC	NC
923		2	max	-0.001	21	-0.014	21	NC	NC	NC	NC
924			min	-0.002	7	-0.041	7	NC	NC	NC	NC
925		3	max	-0.001	21	-0.014	21	NC	NC	NC	NC
926			min	-0.002	7	-0.041	7	NC	NC	NC	NC
927		4	max	-0.001	21	-0.014	21	NC	NC	NC	NC
928			min	-0.002	7	-0.041	7	NC	NC	NC	NC
929		5	max	-0.001	21	-0.014	21	NC	NC	NC	NC
930			min	-0.002	7	-0.041	7	NC	NC	NC	NC
931	F1_J84	1	max	0	23	0	23	NC	NC	NC	NC
932			min	0	5	0	5	NC	NC	NC	NC
933		2	max	0	23	0	23	NC	NC	NC	NC
934			min	0	5	0	5	NC	NC	NC	NC
935		3	max	0	23	0	23	NC	NC	NC	NC
936			min	0	5	0	5	NC	NC	NC	NC
937		4	max	0	23	0	23	NC	NC	NC	NC
938			min	0	5	0	5	NC	NC	NC	NC
939		5	max	0	23	0	23	NC	NC	NC	NC
940			min	0	5	0	5	NC	NC	NC	NC
941	F1_J85	1	max	0	23	0	23	NC	NC	NC	NC
942			min	0	5	0	5	NC	NC	NC	NC
943		2	max	0	23	0	23	NC	NC	NC	NC
944			min	0	5	0	5	NC	NC	NC	NC
945		3	max	0	23	0	23	NC	NC	NC	NC
946			min	0	5	0	5	NC	NC	NC	NC
947		4	max	0	23	0	23	NC	NC	NC	NC
948			min	0	5	0	5	NC	NC	NC	NC
949		5	max	0	23	0	23	NC	NC	NC	NC
950			min	0	5	0	5	NC	NC	NC	NC
951	F1_J86	1	max	0	23	0	23	NC	NC	NC	NC
952			min	0	5	0	5	NC	NC	NC	NC
953		2	max	0	23	0	23	NC	NC	NC	NC
954			min	0	5	0	5	NC	NC	NC	NC
955		3	max	0	23	0	23	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
956			min	0	5	0	5	NC	NC	NC	NC
957		4	max	0	23	0	23	NC	NC	NC	NC
958			min	0	5	0	5	NC	NC	NC	NC
959		5	max	0	23	0	23	NC	NC	NC	NC
960			min	0	5	0	5	NC	NC	NC	NC
961	F1_J87	1	max	0	23	0	23	NC	NC	NC	NC
962			min	0	5	0	5	NC	NC	NC	NC
963		2	max	0	23	0	23	NC	NC	NC	NC
964			min	0	5	0	5	NC	NC	NC	NC
965		3	max	0	23	0	23	NC	NC	NC	NC
966			min	0	5	0	5	NC	NC	NC	NC
967		4	max	0	23	0	23	NC	NC	NC	NC
968			min	0	5	0	5	NC	NC	NC	NC
969		5	max	0	23	0	23	NC	NC	NC	NC
970			min	0	5	0	5	NC	NC	NC	NC
971	F1_J88	1	max	0	23	0	23	NC	NC	NC	NC
972			min	0	5	0	5	NC	NC	NC	NC
973		2	max	0	23	0	23	NC	NC	NC	NC
974			min	0	5	0	5	NC	NC	NC	NC
975		3	max	0	23	0	23	NC	NC	NC	NC
976			min	0	5	0	5	NC	NC	NC	NC
977		4	max	0	23	0	23	NC	NC	NC	NC
978			min	0	5	0	5	NC	NC	NC	NC
979		5	max	0	23	0	23	NC	NC	NC	NC
980			min	0	5	0	5	NC	NC	NC	NC
981	F1_J89	1	max	0	23	0	23	NC	NC	NC	NC
982			min	0	5	0	5	NC	NC	NC	NC
983		2	max	0	23	0	23	NC	NC	NC	NC
984			min	0	5	0	5	NC	NC	NC	NC
985		3	max	0	23	0	23	NC	NC	NC	NC
986			min	0	5	0	5	NC	NC	NC	NC
987		4	max	0	23	0	23	NC	NC	NC	NC
988			min	0	5	0	5	NC	NC	NC	NC
989		5	max	0	23	0	23	NC	NC	NC	NC
990			min	0	5	0	5	NC	NC	NC	NC
991	F1_J90	1	max	0	7	0	7	NC	NC	NC	NC
992			min	0	21	0	21	NC	NC	NC	NC
993		2	max	0	7	0	7	NC	NC	NC	NC
994			min	0	21	0	21	NC	NC	NC	NC
995		3	max	0	7	0	7	NC	NC	NC	NC
996			min	0	21	0	21	NC	NC	NC	NC
997		4	max	0	7	0	7	NC	NC	NC	NC
998			min	0	21	0	21	NC	NC	NC	NC
999		5	max	0	7	0	7	NC	NC	NC	NC
1000			min	0	21	0	21	NC	NC	NC	NC
1001	F1_J91	1	max	0	5	0	5	NC	NC	NC	NC
1002			min	0	19	0	19	NC	NC	NC	NC
1003		2	max	0	5	0	5	NC	NC	NC	NC
1004			min	0	19	0	19	NC	NC	NC	NC
1005		3	max	0	5	0	5	NC	NC	NC	NC
1006			min	0	19	0	19	NC	NC	NC	NC
1007		4	max	0	5	0	5	NC	NC	NC	NC
1008			min	0	19	0	19	NC	NC	NC	NC
1009		5	max	0	5	0	5	NC	NC	NC	NC
1010			min	0	19	0	19	NC	NC	NC	NC
1011	F1_J92	1	max	0	5	0	5	NC	NC	NC	NC
1012			min	0	23	0	23	NC	NC	NC	NC
1013		2	max	0	5	0	5	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
1014			min	0	23	0	23	NC	NC	NC	NC
1015		3	max	0	5	0	5	NC	NC	NC	NC
1016			min	0	23	0	23	NC	NC	NC	NC
1017		4	max	0	5	0	5	NC	NC	NC	NC
1018			min	0	23	0	23	NC	NC	NC	NC
1019		5	max	0	5	0	5	NC	NC	NC	NC
1020			min	0	23	0	23	NC	NC	NC	NC
1021	F1_J93	1	max	0	5	0	5	NC	NC	NC	NC
1022			min	0	23	0	23	NC	NC	NC	NC
1023		2	max	0	5	0	5	NC	NC	NC	NC
1024			min	0	23	0	23	NC	NC	NC	NC
1025		3	max	0	5	0	5	NC	NC	NC	NC
1026			min	0	23	0	23	NC	NC	NC	NC
1027		4	max	0	5	0	5	NC	NC	NC	NC
1028			min	0	23	0	23	NC	NC	NC	NC
1029		5	max	0	5	0	5	NC	NC	NC	NC
1030			min	0	23	0	23	NC	NC	NC	NC
1031	F1_J94	1	max	0	5	0	5	NC	NC	NC	NC
1032			min	0	23	0	23	NC	NC	NC	NC
1033		2	max	0	5	0	5	NC	NC	NC	NC
1034			min	0	23	0	23	NC	NC	NC	NC
1035		3	max	0	5	0	5	NC	NC	NC	NC
1036			min	0	23	0	23	NC	NC	NC	NC
1037		4	max	0	5	0	5	NC	NC	NC	NC
1038			min	0	23	0	23	NC	NC	NC	NC
1039		5	max	0	5	0	5	NC	NC	NC	NC
1040			min	0	23	0	23	NC	NC	NC	NC
1041	F1_J95	1	max	0	23	0	23	NC	NC	NC	NC
1042			min	0	5	0	5	NC	NC	NC	NC
1043		2	max	0	23	0	23	NC	NC	NC	NC
1044			min	0	5	0	5	NC	NC	NC	NC
1045		3	max	0	23	0	23	NC	NC	NC	NC
1046			min	0	5	0	5	NC	NC	NC	NC
1047		4	max	0	23	0	23	NC	NC	NC	NC
1048			min	0	5	0	5	NC	NC	NC	NC
1049		5	max	0	23	0	23	NC	NC	NC	NC
1050			min	0	5	0	5	NC	NC	NC	NC
1051	F1_J96	1	max	0	21	0	21	NC	NC	NC	NC
1052			min	0	7	0	7	NC	NC	NC	NC
1053		2	max	0	21	0	21	NC	NC	NC	NC
1054			min	0	7	0	7	NC	NC	NC	NC
1055		3	max	0	21	0	21	NC	NC	NC	NC
1056			min	0	7	0	7	NC	NC	NC	NC
1057		4	max	0	21	0	21	NC	NC	NC	NC
1058			min	0	7	0	7	NC	NC	NC	NC
1059		5	max	0	21	0	21	NC	NC	NC	NC
1060			min	0	7	0	7	NC	NC	NC	NC
1061	F1_J97	1	max	0	21	0	21	NC	NC	NC	NC
1062			min	0	7	0	7	NC	NC	NC	NC
1063		2	max	0	21	0	21	NC	NC	NC	NC
1064			min	0	7	0	7	NC	NC	NC	NC
1065		3	max	0	21	0	21	NC	NC	NC	NC
1066			min	0	7	0	7	NC	NC	NC	NC
1067		4	max	0	21	0	21	NC	NC	NC	NC
1068			min	0	7	0	7	NC	NC	NC	NC
1069		5	max	0	21	0	21	NC	NC	NC	NC
1070			min	0	7	0	7	NC	NC	NC	NC
1071	F1_J98	1	max	0	21	0	21	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
1072			min	0	7	0	7	NC	NC	NC	NC
1073		2	max	0	21	0	21	NC	NC	NC	NC
1074			min	0	7	0	7	NC	NC	NC	NC
1075		3	max	0	21	0	21	NC	NC	NC	NC
1076			min	0	7	0	7	NC	NC	NC	NC
1077		4	max	0	21	0	21	NC	NC	NC	NC
1078			min	0	7	0	7	NC	NC	NC	NC
1079		5	max	0	21	0	21	NC	NC	NC	NC
1080			min	0	7	0	7	NC	NC	NC	NC
1081	F1_J99	1	max	0	32	0	32	NC	NC	NC	NC
1082			min	0	1	0	1	NC	NC	NC	NC
1083		2	max	0	32	0	32	NC	NC	NC	NC
1084			min	0	1	0	1	NC	NC	NC	NC
1085		3	max	0	32	0	32	NC	NC	NC	NC
1086			min	0	1	0	1	NC	NC	NC	NC
1087		4	max	0	32	0	32	NC	NC	NC	NC
1088			min	0	1	0	1	NC	NC	NC	NC
1089		5	max	0	32	0	32	NC	NC	NC	NC
1090			min	0	1	0	1	NC	NC	NC	NC
1091	F1_J100	1	max	0	7	0	7	NC	NC	NC	NC
1092			min	0	21	0	21	NC	NC	NC	NC
1093		2	max	0	7	0	7	NC	NC	NC	NC
1094			min	0	21	0	21	NC	NC	NC	NC
1095		3	max	0	7	0	7	NC	NC	NC	NC
1096			min	0	21	0	21	NC	NC	NC	NC
1097		4	max	0	7	0	7	NC	NC	NC	NC
1098			min	0	21	0	21	NC	NC	NC	NC
1099		5	max	0	7	0	7	NC	NC	NC	NC
1100			min	0	21	0	21	NC	NC	NC	NC
1101	F1_J101	1	max	0	7	0	7	NC	NC	NC	NC
1102			min	0	21	0	21	NC	NC	NC	NC
1103		2	max	0	7	0	7	NC	NC	NC	NC
1104			min	0	21	0	21	NC	NC	NC	NC
1105		3	max	0	7	0	7	NC	NC	NC	NC
1106			min	0	21	0	21	NC	NC	NC	NC
1107		4	max	0	7	0	7	NC	NC	NC	NC
1108			min	0	21	0	21	NC	NC	NC	NC
1109		5	max	0	7	0	7	NC	NC	NC	NC
1110			min	0	21	0	21	NC	NC	NC	NC
1111	F1_J102	1	max	0	23	0	23	NC	NC	NC	NC
1112			min	0	13	0	13	NC	NC	NC	NC
1113		2	max	0	23	0	23	NC	NC	NC	NC
1114			min	0	13	0	13	NC	NC	NC	NC
1115		3	max	0	23	0	23	NC	NC	NC	NC
1116			min	0	13	0	13	NC	NC	NC	NC
1117		4	max	0	23	0	23	NC	NC	NC	NC
1118			min	0	13	0	13	NC	NC	NC	NC
1119		5	max	0	23	0	23	NC	NC	NC	NC
1120			min	0	13	0	13	NC	NC	NC	NC
1121	F1_J103	1	max	0	13	0	13	NC	NC	NC	NC
1122			min	0	23	0	23	NC	NC	NC	NC
1123		2	max	0	13	0	13	NC	NC	NC	NC
1124			min	0	23	0	23	NC	NC	NC	NC
1125		3	max	0	13	0	13	NC	NC	NC	NC
1126			min	0	23	0	23	NC	NC	NC	NC
1127		4	max	0	13	0	13	NC	NC	NC	NC
1128			min	0	23	0	23	NC	NC	NC	NC
1129		5	max	0	13	0	13	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
1130			min	0	23	0	23	NC	NC	NC	NC
1131	F1_J104	1	max	0	13	0	13	NC	NC	NC	NC
1132			min	0	23	0	23	NC	NC	NC	NC
1133		2	max	0	13	0	13	NC	NC	NC	NC
1134			min	0	23	0	23	NC	NC	NC	NC
1135		3	max	0	13	0	13	NC	NC	NC	NC
1136			min	0	23	0	23	NC	NC	NC	NC
1137		4	max	0	13	0	13	NC	NC	NC	NC
1138			min	0	23	0	23	NC	NC	NC	NC
1139		5	max	0	13	0	13	NC	NC	NC	NC
1140			min	0	23	0	23	NC	NC	NC	NC
1141	F1_J105	1	max	0	13	0	13	NC	NC	NC	NC
1142			min	0	23	0	23	NC	NC	NC	NC
1143		2	max	0	13	0	13	NC	NC	NC	NC
1144			min	0	23	0	23	NC	NC	NC	NC
1145		3	max	0	13	0	13	NC	NC	NC	NC
1146			min	0	23	0	23	NC	NC	NC	NC
1147		4	max	0	13	0	13	NC	NC	NC	NC
1148			min	0	23	0	23	NC	NC	NC	NC
1149		5	max	0	13	0	13	NC	NC	NC	NC
1150			min	0	23	0	23	NC	NC	NC	NC
1151	F1_J106	1	max	0	13	0	13	NC	NC	NC	NC
1152			min	0	23	0	23	NC	NC	NC	NC
1153		2	max	0	13	0	13	NC	NC	NC	NC
1154			min	0	23	0	23	NC	NC	NC	NC
1155		3	max	0	13	0	13	NC	NC	NC	NC
1156			min	0	23	0	23	NC	NC	NC	NC
1157		4	max	0	13	0	13	NC	NC	NC	NC
1158			min	0	23	0	23	NC	NC	NC	NC
1159		5	max	0	13	0	13	NC	NC	NC	NC
1160			min	0	23	0	23	NC	NC	NC	NC
1161	F1_J107	1	max	0	21	0	21	NC	NC	NC	NC
1162			min	0	7	0	7	NC	NC	NC	NC
1163		2	max	0	21	0	21	NC	NC	NC	NC
1164			min	0	7	0	7	NC	NC	NC	NC
1165		3	max	0	21	0	21	NC	NC	NC	NC
1166			min	0	7	0	7	NC	NC	NC	NC
1167		4	max	0	21	0	21	NC	NC	NC	NC
1168			min	0	7	0	7	NC	NC	NC	NC
1169		5	max	0	21	0	21	NC	NC	NC	NC
1170			min	0	7	0	7	NC	NC	NC	NC
1171	F1_J108	1	max	0	23	0	23	NC	NC	NC	NC
1172			min	0	13	0	13	NC	NC	NC	NC
1173		2	max	0	23	0	23	NC	NC	NC	NC
1174			min	0	13	0	13	NC	NC	NC	NC
1175		3	max	0	23	0	23	NC	NC	NC	NC
1176			min	0	13	0	13	NC	NC	NC	NC
1177		4	max	0	23	0	23	NC	NC	NC	NC
1178			min	0	13	0	13	NC	NC	NC	NC
1179		5	max	0	23	0	23	NC	NC	NC	NC
1180			min	0	13	0	13	NC	NC	NC	NC
1181	F1_J109	1	max	0	23	0	23	NC	NC	NC	NC
1182			min	0	13	0	13	NC	NC	NC	NC
1183		2	max	0	23	0	23	NC	NC	NC	NC
1184			min	0	13	0	13	NC	NC	NC	NC
1185		3	max	0	23	0	23	NC	NC	NC	NC
1186			min	0	13	0	13	NC	NC	NC	NC
1187		4	max	0	23	0	23	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
1188			min	0	13	0	13	NC	NC	NC	NC
1189		5	max	0	23	0	23	NC	NC	NC	NC
1190			min	0	13	0	13	NC	NC	NC	NC
1191	F1_J110	1	max	0	23	0	23	NC	NC	NC	NC
1192			min	0	13	0	13	NC	NC	NC	NC
1193		2	max	0	23	0	23	NC	NC	NC	NC
1194			min	0	13	0	13	NC	NC	NC	NC
1195		3	max	0	23	0	23	NC	NC	NC	NC
1196			min	0	13	0	13	NC	NC	NC	NC
1197		4	max	0	23	0	23	NC	NC	NC	NC
1198			min	0	13	0	13	NC	NC	NC	NC
1199		5	max	0	23	0	23	NC	NC	NC	NC
1200			min	0	13	0	13	NC	NC	NC	NC
1201	F1_J111	1	max	0	23	0	23	NC	NC	NC	NC
1202			min	0	13	0	13	NC	NC	NC	NC
1203		2	max	0	23	0	23	NC	NC	NC	NC
1204			min	0	13	0	13	NC	NC	NC	NC
1205		3	max	0	23	0	23	NC	NC	NC	NC
1206			min	0	13	0	13	NC	NC	NC	NC
1207		4	max	0	23	0	23	NC	NC	NC	NC
1208			min	0	13	0	13	NC	NC	NC	NC
1209		5	max	0	23	0	23	NC	NC	NC	NC
1210			min	0	13	0	13	NC	NC	NC	NC
1211	F1_J112	1	max	0	23	0	23	NC	NC	NC	NC
1212			min	0	13	0	13	NC	NC	NC	NC
1213		2	max	0	23	0	23	NC	NC	NC	NC
1214			min	0	13	0	13	NC	NC	NC	NC
1215		3	max	0	23	0	23	NC	NC	NC	NC
1216			min	0	13	0	13	NC	NC	NC	NC
1217		4	max	0	23	0	23	NC	NC	NC	NC
1218			min	0	13	0	13	NC	NC	NC	NC
1219		5	max	0	23	0	23	NC	NC	NC	NC
1220			min	0	13	0	13	NC	NC	NC	NC
1221	F1_J113	1	max	0	23	0	23	NC	NC	NC	NC
1222			min	0	13	0	13	NC	NC	NC	NC
1223		2	max	0	23	0	23	NC	NC	NC	NC
1224			min	0	13	0	13	NC	NC	NC	NC
1225		3	max	0	23	0	23	NC	NC	NC	NC
1226			min	0	13	0	13	NC	NC	NC	NC
1227		4	max	0	23	0	23	NC	NC	NC	NC
1228			min	0	13	0	13	NC	NC	NC	NC
1229		5	max	0	23	0	23	NC	NC	NC	NC
1230			min	0	13	0	13	NC	NC	NC	NC
1231	F1_J114	1	max	-0.001	21	-0.014	21	NC	NC	NC	NC
1232			min	-0.002	7	-0.041	7	NC	NC	NC	NC
1233		2	max	-0.001	21	-0.014	21	NC	NC	NC	NC
1234			min	-0.002	7	-0.041	7	NC	NC	NC	NC
1235		3	max	-0.001	21	-0.014	21	NC	NC	NC	NC
1236			min	-0.002	7	-0.041	7	NC	NC	NC	NC
1237		4	max	-0.001	21	-0.014	21	NC	NC	NC	NC
1238			min	-0.002	7	-0.041	7	NC	NC	NC	NC
1239		5	max	-0.001	21	-0.014	21	NC	NC	NC	NC
1240			min	-0.002	7	-0.041	7	NC	NC	NC	NC
1241	F1_J115	1	max	0	21	-0.009	21	NC	NC	NC	NC
1242			min	-0.001	7	-0.027	7	NC	NC	NC	NC
1243		2	max	0	21	-0.009	21	NC	NC	NC	NC
1244			min	-0.001	7	-0.027	7	NC	NC	NC	NC
1245		3	max	0	21	-0.009	21	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
1246			min	-0.001	7	-0.027	7	NC	NC	NC	NC
1247		4	max	0	21	-0.009	21	NC	NC	NC	NC
1248			min	-0.001	7	-0.027	7	NC	NC	NC	NC
1249		5	max	0	21	-0.009	21	NC	NC	NC	NC
1250			min	-0.001	7	-0.027	7	NC	NC	NC	NC
1251	F1_J116	1	max	0	21	-0.003	21	NC	NC	NC	NC
1252			min	0	7	-0.007	7	NC	NC	NC	NC
1253		2	max	0	21	-0.003	21	NC	NC	NC	NC
1254			min	0	7	-0.007	7	NC	NC	NC	NC
1255		3	max	0	21	-0.003	21	NC	NC	NC	NC
1256			min	0	7	-0.007	7	NC	NC	NC	NC
1257		4	max	0	21	-0.003	21	NC	NC	NC	NC
1258			min	0	7	-0.007	7	NC	NC	NC	NC
1259		5	max	0	21	-0.003	21	NC	NC	NC	NC
1260			min	0	7	-0.007	7	NC	NC	NC	NC
1261	F1_J117	1	max	0.001	5	0.012	5	NC	NC	NC	NC
1262			min	0	23	0.004	23	NC	NC	NC	NC
1263		2	max	0.001	5	0.012	5	NC	NC	NC	NC
1264			min	0	23	0.004	23	NC	NC	NC	NC
1265		3	max	0.001	5	0.012	5	NC	NC	NC	NC
1266			min	0	23	0.004	23	NC	NC	NC	NC
1267		4	max	0.001	5	0.012	5	NC	NC	NC	NC
1268			min	0	23	0.004	23	NC	NC	NC	NC
1269		5	max	0.001	5	0.012	5	NC	NC	NC	NC
1270			min	0	23	0.004	23	NC	NC	NC	NC
1271	F1_J118	1	max	0.001	5	0.028	5	NC	NC	NC	NC
1272			min	0	23	0.01	23	NC	NC	NC	NC
1273		2	max	0.001	5	0.028	5	NC	NC	NC	NC
1274			min	0	23	0.01	23	NC	NC	NC	NC
1275		3	max	0.001	5	0.028	5	NC	NC	NC	NC
1276			min	0	23	0.01	23	NC	NC	NC	NC
1277		4	max	0.001	5	0.028	5	NC	NC	NC	NC
1278			min	0	23	0.01	23	NC	NC	NC	NC
1279		5	max	0.001	5	0.028	5	NC	NC	NC	NC
1280			min	0	23	0.01	23	NC	NC	NC	NC
1281	F1_J119	1	max	0.002	5	0.035	5	NC	NC	NC	NC
1282			min	0.001	23	0.012	23	NC	NC	NC	NC
1283		2	max	0.002	5	0.035	5	NC	NC	NC	NC
1284			min	0.001	23	0.012	23	NC	NC	NC	NC
1285		3	max	0.002	5	0.035	5	NC	NC	NC	NC
1286			min	0.001	23	0.012	23	NC	NC	NC	NC
1287		4	max	0.002	5	0.035	5	NC	NC	NC	NC
1288			min	0.001	23	0.012	23	NC	NC	NC	NC
1289		5	max	0.002	5	0.035	5	NC	NC	NC	NC
1290			min	0.001	23	0.012	23	NC	NC	NC	NC
1291	F1_J120	1	max	0.001	5	0.021	5	NC	NC	NC	NC
1292			min	0	23	0.008	23	NC	NC	NC	NC
1293		2	max	0.001	5	0.021	5	NC	NC	NC	NC
1294			min	0	23	0.008	23	NC	NC	NC	NC
1295		3	max	0.001	5	0.021	5	NC	NC	NC	NC
1296			min	0	23	0.008	23	NC	NC	NC	NC
1297		4	max	0.001	5	0.021	5	NC	NC	NC	NC
1298			min	0	23	0.008	23	NC	NC	NC	NC
1299		5	max	0.001	5	0.021	5	NC	NC	NC	NC
1300			min	0	23	0.008	23	NC	NC	NC	NC
1301	F1_J121	1	max	0	23	-0.01	23	NC	NC	NC	NC
1302			min	-0.001	5	-0.03	5	NC	NC	NC	NC
1303		2	max	0	23	-0.01	23	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
1304			min	-0.001	5	-0.03	5	NC	NC	NC	NC
1305		3	max	0	23	-0.01	23	NC	NC	NC	NC
1306			min	-0.001	5	-0.03	5	NC	NC	NC	NC
1307		4	max	0	23	-0.01	23	NC	NC	NC	NC
1308			min	-0.001	5	-0.03	5	NC	NC	NC	NC
1309		5	max	0	23	-0.01	23	NC	NC	NC	NC
1310			min	-0.001	5	-0.03	5	NC	NC	NC	NC
1311	F1_J122	1	max	0	23	-0.004	23	NC	NC	NC	NC
1312			min	-0.001	5	-0.012	5	NC	NC	NC	NC
1313		2	max	0	23	-0.004	23	NC	NC	NC	NC
1314			min	-0.001	5	-0.012	5	NC	NC	NC	NC
1315		3	max	0	23	-0.004	23	NC	NC	NC	NC
1316			min	-0.001	5	-0.012	5	NC	NC	NC	NC
1317		4	max	0	23	-0.004	23	NC	NC	NC	NC
1318			min	-0.001	5	-0.012	5	NC	NC	NC	NC
1319		5	max	0	23	-0.004	23	NC	NC	NC	NC
1320			min	-0.001	5	-0.012	5	NC	NC	NC	NC
1321	F1_J123	1	max	0	7	0.01	7	NC	NC	NC	NC
1322			min	0	21	0.004	21	NC	NC	NC	NC
1323		2	max	0	7	0.01	7	NC	NC	NC	NC
1324			min	0	21	0.004	21	NC	NC	NC	NC
1325		3	max	0	7	0.01	7	NC	NC	NC	NC
1326			min	0	21	0.004	21	NC	NC	NC	NC
1327		4	max	0	7	0.01	7	NC	NC	NC	NC
1328			min	0	21	0.004	21	NC	NC	NC	NC
1329		5	max	0	7	0.01	7	NC	NC	NC	NC
1330			min	0	21	0.004	21	NC	NC	NC	NC
1331	F1_J124	1	max	0.001	7	0.029	7	NC	NC	NC	NC
1332			min	0	21	0.01	21	NC	NC	NC	NC
1333		2	max	0.001	7	0.029	7	NC	NC	NC	NC
1334			min	0	21	0.01	21	NC	NC	NC	NC
1335		3	max	0.001	7	0.029	7	NC	NC	NC	NC
1336			min	0	21	0.01	21	NC	NC	NC	NC
1337		4	max	0.001	7	0.029	7	NC	NC	NC	NC
1338			min	0	21	0.01	21	NC	NC	NC	NC
1339		5	max	0.001	7	0.029	7	NC	NC	NC	NC
1340			min	0	21	0.01	21	NC	NC	NC	NC
1341	F1_J125	1	max	0	23	-0.005	23	NC	NC	NC	NC
1342			min	-0.001	5	-0.014	5	NC	NC	NC	NC
1343		2	max	0	23	-0.005	23	NC	NC	NC	NC
1344			min	-0.001	5	-0.014	5	NC	NC	NC	NC
1345		3	max	0	23	-0.005	23	NC	NC	NC	NC
1346			min	-0.001	5	-0.014	5	NC	NC	NC	NC
1347		4	max	0	23	-0.005	23	NC	NC	NC	NC
1348			min	-0.001	5	-0.014	5	NC	NC	NC	NC
1349		5	max	0	23	-0.005	23	NC	NC	NC	NC
1350			min	-0.001	5	-0.014	5	NC	NC	NC	NC
1351	F1_J126	1	max	-0.001	23	-0.013	23	NC	NC	NC	NC
1352			min	-0.002	5	-0.038	5	NC	NC	NC	NC
1353		2	max	-0.001	23	-0.013	23	NC	NC	NC	NC
1354			min	-0.002	5	-0.038	5	NC	NC	NC	NC
1355		3	max	-0.001	23	-0.013	23	NC	NC	NC	NC
1356			min	-0.002	5	-0.038	5	NC	NC	NC	NC
1357		4	max	-0.001	23	-0.013	23	NC	NC	NC	NC
1358			min	-0.002	5	-0.038	5	NC	NC	NC	NC
1359		5	max	-0.001	23	-0.013	23	NC	NC	NC	NC
1360			min	-0.002	5	-0.038	5	NC	NC	NC	NC
1361	F1_J127	1	max	0	23	-0.01	23	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
1362			min	-0.001	5	-0.03	5	NC	NC	NC	NC
1363		2	max	0	23	-0.01	23	NC	NC	NC	NC
1364			min	-0.001	5	-0.03	5	NC	NC	NC	NC
1365		3	max	0	23	-0.01	23	NC	NC	NC	NC
1366			min	-0.001	5	-0.03	5	NC	NC	NC	NC
1367		4	max	0	23	-0.01	23	NC	NC	NC	NC
1368			min	-0.001	5	-0.03	5	NC	NC	NC	NC
1369		5	max	0	23	-0.01	23	NC	NC	NC	NC
1370			min	-0.001	5	-0.03	5	NC	NC	NC	NC
1371	F1_J128	1	max	0	23	-0.004	23	NC	NC	NC	NC
1372			min	0	5	-0.011	5	NC	NC	NC	NC
1373		2	max	0	23	-0.004	23	NC	NC	NC	NC
1374			min	0	5	-0.011	5	NC	NC	NC	NC
1375		3	max	0	23	-0.004	23	NC	NC	NC	NC
1376			min	0	5	-0.011	5	NC	NC	NC	NC
1377		4	max	0	23	-0.004	23	NC	NC	NC	NC
1378			min	0	5	-0.011	5	NC	NC	NC	NC
1379		5	max	0	23	-0.004	23	NC	NC	NC	NC
1380			min	0	5	-0.011	5	NC	NC	NC	NC
1381	F1_J129	1	max	0	7	0.011	7	NC	NC	NC	NC
1382			min	0	21	0.004	21	NC	NC	NC	NC
1383		2	max	0	7	0.011	7	NC	NC	NC	NC
1384			min	0	21	0.004	21	NC	NC	NC	NC
1385		3	max	0	7	0.011	7	NC	NC	NC	NC
1386			min	0	21	0.004	21	NC	NC	NC	NC
1387		4	max	0	7	0.011	7	NC	NC	NC	NC
1388			min	0	21	0.004	21	NC	NC	NC	NC
1389		5	max	0	7	0.011	7	NC	NC	NC	NC
1390			min	0	21	0.004	21	NC	NC	NC	NC
1391	F1_J130	1	max	0.001	5	0.029	5	NC	NC	NC	NC
1392			min	0	23	0.01	23	NC	NC	NC	NC
1393		2	max	0.001	5	0.029	5	NC	NC	NC	NC
1394			min	0	23	0.01	23	NC	NC	NC	NC
1395		3	max	0.001	5	0.029	5	NC	NC	NC	NC
1396			min	0	23	0.01	23	NC	NC	NC	NC
1397		4	max	0.001	5	0.029	5	NC	NC	NC	NC
1398			min	0	23	0.01	23	NC	NC	NC	NC
1399		5	max	0.001	5	0.029	5	NC	NC	NC	NC
1400			min	0	23	0.01	23	NC	NC	NC	NC
1401	F1_J131	1	max	0.002	5	0.04	5	NC	NC	NC	NC
1402			min	0.001	23	0.014	23	NC	NC	NC	NC
1403		2	max	0.002	5	0.04	5	NC	NC	NC	NC
1404			min	0.001	23	0.014	23	NC	NC	NC	NC
1405		3	max	0.002	5	0.04	5	NC	NC	NC	NC
1406			min	0.001	23	0.014	23	NC	NC	NC	NC
1407		4	max	0.002	5	0.04	5	NC	NC	NC	NC
1408			min	0.001	23	0.014	23	NC	NC	NC	NC
1409		5	max	0.002	5	0.04	5	NC	NC	NC	NC
1410			min	0.001	23	0.014	23	NC	NC	NC	NC
1411	F1_J132	1	max	0.002	5	0.054	5	NC	NC	NC	NC
1412			min	0.001	23	0.018	23	NC	NC	NC	NC
1413		2	max	0.002	5	0.054	5	NC	NC	NC	NC
1414			min	0.001	23	0.018	23	NC	NC	NC	NC
1415		3	max	0.002	5	0.054	5	NC	NC	NC	NC
1416			min	0.001	23	0.018	23	NC	NC	NC	NC
1417		4	max	0.002	5	0.054	5	NC	NC	NC	NC
1418			min	0.001	23	0.018	23	NC	NC	NC	NC
1419		5	max	0.002	5	0.054	5	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
1420			min	0.001	23	0.018	23	NC	NC	NC	NC
1421	F1_J133	1	max	-0.001	21	-0.027	21	NC	NC	NC	NC
1422			min	-0.003	4	-0.08	4	NC	NC	NC	NC
1423		2	max	-0.001	21	-0.027	21	NC	NC	NC	NC
1424			min	-0.003	4	-0.08	4	NC	NC	NC	NC
1425		3	max	-0.001	21	-0.027	21	NC	NC	NC	NC
1426			min	-0.003	4	-0.08	4	NC	NC	NC	NC
1427		4	max	-0.001	21	-0.027	21	NC	NC	NC	NC
1428			min	-0.003	4	-0.08	4	NC	NC	NC	NC
1429		5	max	-0.001	21	-0.027	21	NC	NC	NC	NC
1430			min	-0.003	4	-0.08	4	NC	NC	NC	NC
1431	F1_J134	1	max	-0.001	21	-0.015	21	NC	NC	NC	NC
1432			min	-0.002	4	-0.046	4	NC	NC	NC	NC
1433		2	max	-0.001	21	-0.015	21	NC	NC	NC	NC
1434			min	-0.002	4	-0.046	4	NC	NC	NC	NC
1435		3	max	-0.001	21	-0.015	21	NC	NC	NC	NC
1436			min	-0.002	4	-0.046	4	NC	NC	NC	NC
1437		4	max	-0.001	21	-0.015	21	NC	NC	NC	NC
1438			min	-0.002	4	-0.046	4	NC	NC	NC	NC
1439		5	max	-0.001	21	-0.015	21	NC	NC	NC	NC
1440			min	-0.002	4	-0.046	4	NC	NC	NC	NC
1441	F1_J135	1	max	0.003	7	0.061	7	NC	NC	NC	NC
1442			min	0.001	21	0.019	21	NC	NC	NC	NC
1443		2	max	0.003	7	0.061	7	NC	NC	NC	NC
1444			min	0.001	21	0.019	21	NC	NC	NC	NC
1445		3	max	0.003	7	0.061	7	NC	NC	NC	NC
1446			min	0.001	21	0.019	21	NC	NC	NC	NC
1447		4	max	0.003	7	0.061	7	NC	NC	NC	NC
1448			min	0.001	21	0.019	21	NC	NC	NC	NC
1449		5	max	0.003	7	0.061	7	NC	NC	NC	NC
1450			min	0.001	21	0.019	21	NC	NC	NC	NC
1451	F1_J136	1	max	0.004	7	0.088	7	NC	NC	NC	NC
1452			min	0.001	21	0.03	21	NC	NC	NC	NC
1453		2	max	0.004	7	0.088	7	NC	NC	NC	NC
1454			min	0.001	21	0.03	21	NC	NC	NC	NC
1455		3	max	0.004	7	0.088	7	NC	NC	NC	NC
1456			min	0.001	21	0.03	21	NC	NC	NC	NC
1457		4	max	0.004	7	0.088	7	NC	NC	NC	NC
1458			min	0.001	21	0.03	21	NC	NC	NC	NC
1459		5	max	0.004	7	0.088	7	NC	NC	NC	NC
1460			min	0.001	21	0.03	21	NC	NC	NC	NC
1461	F1_J137	1	max	-0.001	23	-0.026	23	NC	NC	NC	NC
1462			min	-0.003	5	-0.079	5	NC	NC	NC	NC
1463		2	max	-0.001	23	-0.026	23	NC	NC	NC	NC
1464			min	-0.003	5	-0.079	5	NC	NC	NC	NC
1465		3	max	-0.001	23	-0.026	23	NC	NC	NC	NC
1466			min	-0.003	5	-0.079	5	NC	NC	NC	NC
1467		4	max	-0.001	23	-0.026	23	NC	NC	NC	NC
1468			min	-0.003	5	-0.079	5	NC	NC	NC	NC
1469		5	max	-0.001	23	-0.026	23	NC	NC	NC	NC
1470			min	-0.003	5	-0.079	5	NC	NC	NC	NC
1471	F1_J138	1	max	0.003	7	0.075	7	NC	NC	NC	NC
1472			min	0	21	0.005	21	NC	NC	NC	NC
1473		2	max	0.003	7	0.075	7	NC	NC	NC	NC
1474			min	0	21	0.005	21	NC	NC	NC	NC
1475		3	max	0.003	7	0.075	7	NC	NC	NC	NC
1476			min	0	21	0.005	21	NC	NC	NC	NC
1477		4	max	0.003	7	0.075	7	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
1478			min	0	21	0.005	21	NC	NC	NC	NC
1479		5	max	0.003	7	0.075	7	NC	NC	NC	NC
1480			min	0	21	0.005	21	NC	NC	NC	NC
1481	F1_J139	1	max	0.002	7	0.051	7	NC	NC	NC	NC
1482			min	0	21	0.002	21	NC	NC	NC	NC
1483		2	max	0.002	7	0.051	7	NC	NC	NC	NC
1484			min	0	21	0.002	21	NC	NC	NC	NC
1485		3	max	0.002	7	0.051	7	NC	NC	NC	NC
1486			min	0	21	0.002	21	NC	NC	NC	NC
1487		4	max	0.002	7	0.051	7	NC	NC	NC	NC
1488			min	0	21	0.002	21	NC	NC	NC	NC
1489		5	max	0.002	7	0.051	7	NC	NC	NC	NC
1490			min	0	21	0.002	21	NC	NC	NC	NC
1491	F1_J140	1	max	0.002	7	0.037	7	NC	NC	NC	NC
1492			min	0	21	0.003	21	NC	NC	NC	NC
1493		2	max	0.002	7	0.037	7	NC	NC	NC	NC
1494			min	0	21	0.003	21	NC	NC	NC	NC
1495		3	max	0.002	7	0.037	7	NC	NC	NC	NC
1496			min	0	21	0.003	21	NC	NC	NC	NC
1497		4	max	0.002	7	0.037	7	NC	NC	NC	NC
1498			min	0	21	0.003	21	NC	NC	NC	NC
1499		5	max	0.002	7	0.037	7	NC	NC	NC	NC
1500			min	0	21	0.003	21	NC	NC	NC	NC
1501	F1_J141	1	max	0.001	7	0.032	7	NC	NC	NC	NC
1502			min	0	21	0.008	21	NC	NC	NC	NC
1503		2	max	0.001	7	0.032	7	NC	NC	NC	NC
1504			min	0	21	0.008	21	NC	NC	NC	NC
1505		3	max	0.001	7	0.032	7	NC	NC	NC	NC
1506			min	0	21	0.008	21	NC	NC	NC	NC
1507		4	max	0.001	7	0.032	7	NC	NC	NC	NC
1508			min	0	21	0.008	21	NC	NC	NC	NC
1509		5	max	0.001	7	0.032	7	NC	NC	NC	NC
1510			min	0	21	0.008	21	NC	NC	NC	NC
1511	F1_J142	1	max	0.002	5	0.04	5	NC	NC	NC	NC
1512			min	0.001	23	0.014	23	NC	NC	NC	NC
1513		2	max	0.002	5	0.04	5	NC	NC	NC	NC
1514			min	0.001	23	0.014	23	NC	NC	NC	NC
1515		3	max	0.002	5	0.04	5	NC	NC	NC	NC
1516			min	0.001	23	0.014	23	NC	NC	NC	NC
1517		4	max	0.002	5	0.04	5	NC	NC	NC	NC
1518			min	0.001	23	0.014	23	NC	NC	NC	NC
1519		5	max	0.002	5	0.04	5	NC	NC	NC	NC
1520			min	0.001	23	0.014	23	NC	NC	NC	NC
1521	F1_J143	1	max	0.002	5	0.054	5	NC	NC	NC	NC
1522			min	0.001	23	0.02	23	NC	NC	NC	NC
1523		2	max	0.002	5	0.054	5	NC	NC	NC	NC
1524			min	0.001	23	0.02	23	NC	NC	NC	NC
1525		3	max	0.002	5	0.054	5	NC	NC	NC	NC
1526			min	0.001	23	0.02	23	NC	NC	NC	NC
1527		4	max	0.002	5	0.054	5	NC	NC	NC	NC
1528			min	0.001	23	0.02	23	NC	NC	NC	NC
1529		5	max	0.002	5	0.054	5	NC	NC	NC	NC
1530			min	0.001	23	0.02	23	NC	NC	NC	NC
1531	F1_J148	1	max	-0.003	21	-0.077	21	NC	NC	NC	NC
1532			min	-0.01	7	-0.243	7	NC	NC	NC	NC
1533		2	max	-0.003	21	-0.077	21	NC	NC	NC	NC
1534			min	-0.01	7	-0.243	7	NC	NC	NC	NC
1535		3	max	-0.003	21	-0.077	21	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
1536			min	-0.01	7	-0.243	7	NC	NC	NC	NC
1537		4	max	-0.003	21	-0.077	21	NC	NC	NC	NC
1538			min	-0.01	7	-0.243	7	NC	NC	NC	NC
1539		5	max	-0.003	21	-0.077	21	NC	NC	NC	NC
1540			min	-0.01	7	-0.243	7	NC	NC	NC	NC
1541	F1_J149	1	max	-0.002	21	-0.039	21	NC	NC	NC	NC
1542			min	-0.011	7	-0.252	7	NC	NC	NC	NC
1543		2	max	-0.002	21	-0.039	21	NC	NC	NC	NC
1544			min	-0.011	7	-0.252	7	NC	NC	NC	NC
1545		3	max	-0.002	21	-0.039	21	NC	NC	NC	NC
1546			min	-0.011	7	-0.252	7	NC	NC	NC	NC
1547		4	max	-0.002	21	-0.039	21	NC	NC	NC	NC
1548			min	-0.011	7	-0.252	7	NC	NC	NC	NC
1549		5	max	-0.002	21	-0.039	21	NC	NC	NC	NC
1550			min	-0.011	7	-0.252	7	NC	NC	NC	NC
1551	F1_J150	1	max	0.01	7	0.233	7	NC	NC	NC	NC
1552			min	0.002	21	0.049	21	NC	NC	NC	NC
1553		2	max	0.01	7	0.233	7	NC	NC	NC	NC
1554			min	0.002	21	0.049	21	NC	NC	NC	NC
1555		3	max	0.01	7	0.233	7	NC	NC	NC	NC
1556			min	0.002	21	0.049	21	NC	NC	NC	NC
1557		4	max	0.01	7	0.233	7	NC	NC	NC	NC
1558			min	0.002	21	0.049	21	NC	NC	NC	NC
1559		5	max	0.01	7	0.233	7	NC	NC	NC	NC
1560			min	0.002	21	0.049	21	NC	NC	NC	NC
1561	F1_J151	1	max	0.006	7	0.141	7	NC	NC	NC	NC
1562			min	0.001	21	0.023	21	NC	NC	NC	NC
1563		2	max	0.006	7	0.141	7	NC	NC	NC	NC
1564			min	0.001	21	0.023	21	NC	NC	NC	NC
1565		3	max	0.006	7	0.141	7	NC	NC	NC	NC
1566			min	0.001	21	0.023	21	NC	NC	NC	NC
1567		4	max	0.006	7	0.141	7	NC	NC	NC	NC
1568			min	0.001	21	0.023	21	NC	NC	NC	NC
1569		5	max	0.006	7	0.141	7	NC	NC	NC	NC
1570			min	0.001	21	0.023	21	NC	NC	NC	NC
1571	F1_J152	1	max	0.005	5	0.122	5	NC	NC	NC	NC
1572			min	0.001	22	0.032	22	NC	NC	NC	NC
1573		2	max	0.005	5	0.122	5	NC	NC	NC	NC
1574			min	0.001	22	0.032	22	NC	NC	NC	NC
1575		3	max	0.005	5	0.122	5	NC	NC	NC	NC
1576			min	0.001	22	0.032	22	NC	NC	NC	NC
1577		4	max	0.005	5	0.122	5	NC	NC	NC	NC
1578			min	0.001	22	0.032	22	NC	NC	NC	NC
1579		5	max	0.005	5	0.122	5	NC	NC	NC	NC
1580			min	0.001	22	0.032	22	NC	NC	NC	NC
1581	F1_J153	1	max	-0.003	21	-0.028	21	NC	NC	NC	NC
1582			min	-0.013	7	-0.131	7	NC	NC	NC	NC
1583		2	max	-0.003	21	-0.028	21	NC	NC	NC	NC
1584			min	-0.013	7	-0.131	7	NC	NC	NC	NC
1585		3	max	-0.003	21	-0.028	21	NC	NC	NC	NC
1586			min	-0.013	7	-0.131	7	NC	NC	NC	NC
1587		4	max	-0.003	21	-0.028	21	NC	NC	NC	NC
1588			min	-0.013	7	-0.131	7	NC	NC	NC	NC
1589		5	max	-0.003	21	-0.028	21	NC	NC	NC	NC
1590			min	-0.013	7	-0.131	7	NC	NC	NC	NC
1591	F1_J154	1	max	-0.001	21	-0.015	21	NC	NC	NC	NC
1592			min	-0.009	7	-0.087	7	NC	NC	NC	NC
1593		2	max	-0.001	21	-0.015	21	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
1594			min	-0.009	7	-0.087	7	NC	NC	NC	NC
1595		3	max	-0.001	21	-0.015	21	NC	NC	NC	NC
1596			min	-0.009	7	-0.087	7	NC	NC	NC	NC
1597		4	max	-0.001	21	-0.015	21	NC	NC	NC	NC
1598			min	-0.009	7	-0.087	7	NC	NC	NC	NC
1599		5	max	-0.001	21	-0.015	21	NC	NC	NC	NC
1600			min	-0.009	7	-0.087	7	NC	NC	NC	NC
1601	F1_J155	1	max	0.004	5	0.039	5	NC	NC	NC	NC
1602			min	0.001	23	0.009	23	NC	NC	NC	NC
1603		2	max	0.004	5	0.039	5	NC	NC	NC	NC
1604			min	0.001	23	0.009	23	NC	NC	NC	NC
1605		3	max	0.004	5	0.039	5	NC	NC	NC	NC
1606			min	0.001	23	0.009	23	NC	NC	NC	NC
1607		4	max	0.004	5	0.039	5	NC	NC	NC	NC
1608			min	0.001	23	0.009	23	NC	NC	NC	NC
1609		5	max	0.004	5	0.039	5	NC	NC	NC	NC
1610			min	0.001	23	0.009	23	NC	NC	NC	NC
1611	F1_J156	1	max	0.004	5	0.041	5	NC	NC	NC	NC
1612			min	0.001	23	0.009	23	NC	NC	NC	NC
1613		2	max	0.004	5	0.041	5	NC	NC	NC	NC
1614			min	0.001	23	0.009	23	NC	NC	NC	NC
1615		3	max	0.004	5	0.041	5	NC	NC	NC	NC
1616			min	0.001	23	0.009	23	NC	NC	NC	NC
1617		4	max	0.004	5	0.041	5	NC	NC	NC	NC
1618			min	0.001	23	0.009	23	NC	NC	NC	NC
1619		5	max	0.004	5	0.041	5	NC	NC	NC	NC
1620			min	0.001	23	0.009	23	NC	NC	NC	NC
1621	F1_J157	1	max	-0.002	21	-0.015	21	NC	NC	NC	NC
1622			min	-0.007	7	-0.07	7	NC	NC	NC	NC
1623		2	max	-0.002	21	-0.015	21	NC	NC	NC	NC
1624			min	-0.007	7	-0.07	7	NC	NC	NC	NC
1625		3	max	-0.002	21	-0.015	21	NC	NC	NC	NC
1626			min	-0.007	7	-0.07	7	NC	NC	NC	NC
1627		4	max	-0.002	21	-0.015	21	NC	NC	NC	NC
1628			min	-0.007	7	-0.07	7	NC	NC	NC	NC
1629		5	max	-0.002	21	-0.015	21	NC	NC	NC	NC
1630			min	-0.007	7	-0.07	7	NC	NC	NC	NC
1631	F1_J158	1	max	-0.001	21	-0.014	21	NC	NC	NC	NC
1632			min	-0.007	7	-0.067	7	NC	NC	NC	NC
1633		2	max	-0.001	21	-0.014	21	NC	NC	NC	NC
1634			min	-0.007	7	-0.067	7	NC	NC	NC	NC
1635		3	max	-0.001	21	-0.014	21	NC	NC	NC	NC
1636			min	-0.007	7	-0.067	7	NC	NC	NC	NC
1637		4	max	-0.001	21	-0.014	21	NC	NC	NC	NC
1638			min	-0.007	7	-0.067	7	NC	NC	NC	NC
1639		5	max	-0.001	21	-0.014	21	NC	NC	NC	NC
1640			min	-0.007	7	-0.067	7	NC	NC	NC	NC
1641	F1_G159	1	max	0	5	0	5	NC	NC	NC	NC
1642			min	0	23	0	23	NC	NC	NC	NC
1643		2	max	0	5	0	5	NC	NC	NC	NC
1644			min	0	23	0	23	NC	NC	NC	NC
1645		3	max	0	5	0	5	NC	NC	NC	NC
1646			min	0	23	0	23	NC	NC	NC	NC
1647		4	max	0	5	0	5	NC	NC	NC	NC
1648			min	0	23	0	23	NC	NC	NC	NC
1649		5	max	0	5	0	5	NC	NC	NC	NC
1650			min	0	23	0	23	NC	NC	NC	NC
1651	F1_G154	1	max	0.003	7	0.046	7	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
1652			min	0	21	-0.005	21	NC	NC	NC	NC
1653		2	max	0.003	7	0.046	7	NC	NC	NC	NC
1654			min	0	21	-0.005	21	NC	NC	NC	NC
1655		3	max	0.003	7	0.046	7	NC	NC	NC	NC
1656			min	0	21	-0.005	21	NC	NC	NC	NC
1657		4	max	0.003	7	0.049	7	NC	NC	NC	NC
1658			min	0	21	-0.004	21	NC	NC	NC	NC
1659		5	max	0.003	7	0.049	7	NC	NC	NC	NC
1660			min	0	21	-0.004	21	NC	NC	NC	NC
1661	F1_G155	1	max	0	7	0.008	7	NC	NC	NC	NC
1662			min	0	21	0	21	NC	NC	NC	NC
1663		2	max	0	7	0.008	7	NC	NC	NC	NC
1664			min	0	21	0	21	NC	NC	NC	NC
1665		3	max	0	7	0.008	7	NC	NC	NC	NC
1666			min	0	21	0	21	NC	NC	NC	NC
1667		4	max	0	7	0.008	7	NC	NC	NC	NC
1668			min	0	21	0	21	NC	NC	NC	NC
1669		5	max	0	7	0.008	7	NC	NC	NC	NC
1670			min	0	21	0	21	NC	NC	NC	NC
1671	F1_G157	1	max	0	23	-0.003	23	NC	NC	NC	NC
1672			min	-0.001	5	-0.029	5	NC	NC	NC	NC
1673		2	max	0	23	-0.003	23	NC	NC	NC	NC
1674			min	-0.001	5	-0.029	5	NC	NC	NC	NC
1675		3	max	0	23	-0.003	23	NC	NC	NC	NC
1676			min	-0.001	5	-0.029	5	NC	NC	NC	NC
1677		4	max	0	23	-0.003	23	NC	NC	NC	NC
1678			min	-0.001	5	-0.029	5	NC	NC	NC	NC
1679		5	max	0	23	-0.003	23	NC	NC	NC	NC
1680			min	-0.001	5	-0.029	5	NC	NC	NC	NC
1681	F1_G160	1	max	0.005	7	0.222	7	NC	NC	NC	NC
1682			min	0.001	21	0.041	21	NC	NC	NC	NC
1683		2	max	0.005	7	0.222	7	NC	NC	NC	NC
1684			min	0.001	21	0.041	21	NC	NC	NC	NC
1685		3	max	0.005	7	0.222	7	NC	NC	NC	NC
1686			min	0.001	21	0.041	21	NC	NC	NC	NC
1687		4	max	0.005	7	0.222	7	NC	NC	NC	NC
1688			min	0.001	21	0.041	21	NC	NC	NC	NC
1689		5	max	0.005	7	0.222	7	NC	NC	NC	NC
1690			min	0.001	21	0.041	21	NC	NC	NC	NC
1691	(B-2)_L1	1	max	0.001	19	0.002	19	NC	NC	NC	NC
1692			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1693		2	max	0.001	19	0.002	19	NC	NC	NC	NC
1694			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1695		3	max	0.001	19	0.002	19	NC	NC	NC	NC
1696			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1697		4	max	0.001	19	0.002	19	NC	NC	NC	NC
1698			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1699		5	max	0.001	19	0.002	19	NC	NC	NC	NC
1700			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1701	(B-3)_L1	1	max	0.001	19	0.002	19	NC	NC	NC	NC
1702			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1703		2	max	0.001	19	0.002	19	NC	NC	NC	NC
1704			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1705		3	max	0.001	19	0.002	19	NC	NC	NC	NC
1706			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1707		4	max	0.001	19	0.002	19	NC	NC	NC	NC
1708			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1709		5	max	0.001	19	0.002	19	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
1710			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1711	(A-2)_L1	1	max	0.001	19	0.002	19	NC	NC	NC	NC
1712			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1713		2	max	0.001	19	0.002	19	NC	NC	NC	NC
1714			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1715		3	max	0.001	19	0.002	19	NC	NC	NC	NC
1716			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1717		4	max	0.001	19	0.002	19	NC	NC	NC	NC
1718			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1719		5	max	0.001	19	0.002	19	NC	NC	NC	NC
1720			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1721	(A-3)_L1	1	max	0.001	19	0.002	19	NC	NC	NC	NC
1722			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1723		2	max	0.001	19	0.002	19	NC	NC	NC	NC
1724			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1725		3	max	0.001	19	0.002	19	NC	NC	NC	NC
1726			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1727		4	max	0.001	19	0.002	19	NC	NC	NC	NC
1728			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1729		5	max	0.001	19	0.002	19	NC	NC	NC	NC
1730			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1731	(B-4)_L1	1	max	0.001	19	0.002	19	NC	NC	NC	NC
1732			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1733		2	max	0.001	19	0.002	19	NC	NC	NC	NC
1734			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1735		3	max	0.001	19	0.002	19	NC	NC	NC	NC
1736			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1737		4	max	0.001	19	0.002	19	NC	NC	NC	NC
1738			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1739		5	max	0.001	19	0.002	19	NC	NC	NC	NC
1740			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1741	(A-4)_L1	1	max	0.001	19	0.002	19	NC	NC	NC	NC
1742			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1743		2	max	0.001	19	0.002	19	NC	NC	NC	NC
1744			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1745		3	max	0.001	19	0.002	19	NC	NC	NC	NC
1746			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1747		4	max	0.001	19	0.002	19	NC	NC	NC	NC
1748			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1749		5	max	0.001	19	0.002	19	NC	NC	NC	NC
1750			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1751	(B-5)_L1	1	max	0.001	19	0.002	19	NC	NC	NC	NC
1752			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1753		2	max	0.001	19	0.002	19	NC	NC	NC	NC
1754			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1755		3	max	0.001	19	0.002	19	NC	NC	NC	NC
1756			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1757		4	max	0.001	19	0.002	19	NC	NC	NC	NC
1758			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1759		5	max	0.001	19	0.002	19	NC	NC	NC	NC
1760			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1761	(A-5)_L1	1	max	0.001	19	0.002	19	NC	NC	NC	NC
1762			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1763		2	max	0.001	19	0.002	19	NC	NC	NC	NC
1764			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1765		3	max	0.001	19	0.002	19	NC	NC	NC	NC
1766			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1767		4	max	0.001	19	0.002	19	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
1768			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1769		5	max	0.001	19	0.002	19	NC	NC	NC	NC
1770			min	-0.002	13	-0.002	13	NC	NC	NC	NC
1771	(A-6)_L1	1	max	0.005	19	0.003	19	NC	NC	NC	NC
1772			min	-0.005	13	-0.003	13	NC	NC	NC	NC
1773		2	max	0.005	19	0.003	19	NC	NC	NC	NC
1774			min	-0.005	13	-0.003	13	NC	NC	NC	NC
1775		3	max	0.005	19	0.003	19	NC	NC	NC	NC
1776			min	-0.005	13	-0.003	13	NC	NC	NC	NC
1777		4	max	0.005	19	0.003	19	NC	NC	NC	NC
1778			min	-0.005	13	-0.003	13	NC	NC	NC	NC
1779		5	max	0.005	19	0.003	19	NC	NC	NC	NC
1780			min	-0.005	13	-0.003	13	NC	NC	NC	NC
1781	(M-D)_L1	1	max	0.005	19	0.003	19	NC	NC	NC	NC
1782			min	-0.005	13	-0.003	13	NC	NC	NC	NC
1783		2	max	0.005	19	0.003	19	NC	NC	NC	NC
1784			min	-0.005	13	-0.003	13	NC	NC	NC	NC
1785		3	max	0.005	19	0.003	19	NC	NC	NC	NC
1786			min	-0.005	13	-0.003	13	NC	NC	NC	NC
1787		4	max	0.005	19	0.003	19	NC	NC	NC	NC
1788			min	-0.005	13	-0.003	13	NC	NC	NC	NC
1789		5	max	0.005	19	0.003	19	NC	NC	NC	NC
1790			min	-0.005	13	-0.003	13	NC	NC	NC	NC
1791	C15_L1	1	max	0.005	19	0.003	19	NC	NC	NC	NC
1792			min	-0.005	13	-0.003	13	NC	NC	NC	NC
1793		2	max	0.005	19	0.003	19	NC	NC	NC	NC
1794			min	-0.005	13	-0.003	13	NC	NC	NC	NC
1795		3	max	0.005	19	0.003	19	NC	NC	NC	NC
1796			min	-0.005	13	-0.003	13	NC	NC	NC	NC
1797		4	max	0.005	19	0.003	19	NC	NC	NC	NC
1798			min	-0.005	13	-0.003	13	NC	NC	NC	NC
1799		5	max	0.005	19	0.003	19	NC	NC	NC	NC
1800			min	-0.005	13	-0.003	13	NC	NC	NC	NC
1801	C19_L1	1	max	-0.072	24	-0.014	24	NC	NC	NC	NC
1802			min	-0.312	6	-0.06	6	NC	NC	NC	NC
1803		2	max	-0.072	24	-0.014	24	NC	NC	NC	NC
1804			min	-0.312	6	-0.06	6	NC	NC	NC	NC
1805		3	max	-0.072	24	-0.014	24	NC	NC	NC	NC
1806			min	-0.312	6	-0.06	6	NC	NC	NC	NC
1807		4	max	0.973	7	0.188	7	NC	NC	NC	NC
1808			min	0.126	21	0.024	21	NC	NC	NC	NC
1809		5	max	0.973	7	0.188	7	NC	NC	NC	NC
1810			min	0.126	21	0.024	21	NC	NC	NC	NC
1811	C20_L1	1	max	0.928	7	0.179	7	NC	NC	NC	NC
1812			min	0.104	21	0.02	21	NC	NC	NC	NC
1813		2	max	0.928	7	0.179	7	NC	NC	NC	NC
1814			min	0.104	21	0.02	21	NC	NC	NC	NC
1815		3	max	0.928	7	0.179	7	NC	NC	NC	NC
1816			min	0.104	21	0.02	21	NC	NC	NC	NC
1817		4	max	-0.402	21	-0.077	21	NC	NC	NC	NC
1818			min	-2.743	7	-0.529	7	NC	NC	NC	NC
1819		5	max	-0.402	21	-0.077	21	NC	NC	NC	NC
1820			min	-2.743	7	-0.529	7	NC	NC	NC	NC
1821	(J-C)_L1	1	max	0.005	19	0.003	19	NC	NC	NC	NC
1822			min	-0.005	13	-0.003	13	NC	NC	NC	NC
1823		2	max	0.005	19	0.003	19	NC	NC	NC	NC
1824			min	-0.005	13	-0.003	13	NC	NC	NC	NC
1825		3	max	0.005	19	0.003	19	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
1826			min	-0.005	13	-0.003	13	NC	NC	NC	NC
1827		4	max	0.005	19	0.003	19	NC	NC	NC	NC
1828			min	-0.005	13	-0.003	13	NC	NC	NC	NC
1829		5	max	0.005	19	0.003	19	NC	NC	NC	NC
1830			min	-0.005	13	-0.003	13	NC	NC	NC	NC
1831	(K-C)_L1	1	max	0.005	19	0.003	19	NC	NC	NC	NC
1832			min	-0.005	13	-0.003	13	NC	NC	NC	NC
1833		2	max	0.005	19	0.003	19	NC	NC	NC	NC
1834			min	-0.005	13	-0.003	13	NC	NC	NC	NC
1835		3	max	0.005	19	0.003	19	NC	NC	NC	NC
1836			min	-0.005	13	-0.003	13	NC	NC	NC	NC
1837		4	max	0.005	19	0.003	19	NC	NC	NC	NC
1838			min	-0.005	13	-0.003	13	NC	NC	NC	NC
1839		5	max	0.005	19	0.003	19	NC	NC	NC	NC
1840			min	-0.005	13	-0.003	13	NC	NC	NC	NC
1841	(C-5)_L1	1	max	0.005	19	0.003	19	NC	NC	NC	NC
1842			min	-0.005	13	-0.003	13	NC	NC	NC	NC
1843		2	max	0.005	19	0.003	19	NC	NC	NC	NC
1844			min	-0.005	13	-0.003	13	NC	NC	NC	NC
1845		3	max	0.005	19	0.003	19	NC	NC	NC	NC
1846			min	-0.005	13	-0.003	13	NC	NC	NC	NC
1847		4	max	0.005	19	0.003	19	NC	NC	NC	NC
1848			min	-0.005	13	-0.003	13	NC	NC	NC	NC
1849		5	max	0.005	19	0.003	19	NC	NC	NC	NC
1850			min	-0.005	13	-0.003	13	NC	NC	NC	NC
1851	M193	1	max	5.516	5	1.44	5	NC	NC	NC	NC
1852			min	1.188	23	0.31	23	NC	NC	NC	NC
1853		2	max	7.586	4	1.981	4	NC	NC	NC	NC
1854			min	1.75	23	0.457	23	NC	NC	NC	NC
1855		3	max	9.052	4	2.364	4	NC	NC	NC	NC
1856			min	2.091	23	0.546	23	NC	NC	NC	NC
1857		4	max	9.994	4	2.61	4	NC	NC	NC	NC
1858			min	2.198	23	0.574	23	NC	NC	NC	NC
1859		5	max	9.994	4	2.61	4	NC	NC	NC	NC
1860			min	2.198	23	0.574	23	NC	NC	NC	NC
1861	M194	1	max	-1.249	23	-0.326	23	NC	NC	NC	NC
1862			min	-6.487	5	-1.694	5	NC	NC	NC	NC
1863		2	max	-1.249	23	-0.326	23	NC	NC	NC	NC
1864			min	-6.487	5	-1.694	5	NC	NC	NC	NC
1865		3	max	-1.249	23	-0.326	23	NC	NC	NC	NC
1866			min	-6.487	5	-1.694	5	NC	NC	NC	NC
1867		4	max	-1.249	23	-0.326	23	NC	NC	NC	NC
1868			min	-6.487	5	-1.694	5	NC	NC	NC	NC
1869		5	max	-1.249	23	-0.326	23	NC	NC	NC	NC
1870			min	-6.487	5	-1.694	5	NC	NC	NC	NC
1871	M196	1	max	0.526	21	0.137	21	NC	NC	NC	NC
1872			min	-1.294	7	-0.338	7	NC	NC	NC	NC
1873		2	max	0.526	21	0.137	21	NC	NC	NC	NC
1874			min	-1.294	7	-0.338	7	NC	NC	NC	NC
1875		3	max	0.526	21	0.137	21	NC	NC	NC	NC
1876			min	-1.294	7	-0.338	7	NC	NC	NC	NC
1877		4	max	0.526	21	0.137	21	NC	NC	NC	NC
1878			min	-1.294	7	-0.338	7	NC	NC	NC	NC
1879		5	max	0.526	21	0.137	21	NC	NC	NC	NC
1880			min	-1.294	7	-0.338	7	NC	NC	NC	NC
1881	M197	1	max	1.609	7	0.42	7	NC	NC	NC	NC
1882			min	0.02	21	0.005	21	NC	NC	NC	NC
1883		2	max	1.609	7	0.42	7	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
1884			min	-0.075	17	-0.02	17	NC	NC	NC	NC
1885		3	max	0.856	7	0.224	7	NC	NC	NC	NC
1886			min	-0.282	17	-0.074	17	NC	NC	NC	NC
1887		4	max	-0.125	23	-0.033	23	NC	NC	NC	NC
1888			min	-0.97	4	-0.253	4	NC	NC	NC	NC
1889		5	max	-0.125	23	-0.033	23	NC	NC	NC	NC
1890			min	-0.97	4	-0.253	4	NC	NC	NC	NC
1891	M198	1	max	0.863	7	0.166	7	NC	NC	NC	NC
1892			min	0.055	21	0.011	21	NC	NC	NC	NC
1893		2	max	0.863	7	0.166	7	NC	NC	NC	NC
1894			min	0.055	21	0.011	21	NC	NC	NC	NC
1895		3	max	0.863	7	0.166	7	NC	NC	NC	NC
1896			min	0.055	21	0.011	21	NC	NC	NC	NC
1897		4	max	0.863	7	0.166	7	NC	NC	NC	NC
1898			min	0.055	21	0.011	21	NC	NC	NC	NC
1899		5	max	0.713	5	0.138	5	NC	NC	NC	NC
1900			min	0.133	23	0.026	23	NC	NC	NC	NC
1901	M199	1	max	0	32	0	32	NC	NC	NC	NC
1902			min	0	1	0	1	NC	NC	NC	NC
1903		2	max	-0.064	21	-0.012	21	NC	NC	NC	NC
1904			min	-0.397	7	-0.076	7	NC	NC	NC	NC
1905		3	max	-0.064	21	-0.012	21	NC	NC	NC	NC
1906			min	-0.397	7	-0.076	7	NC	NC	NC	NC
1907		4	max	-0.064	21	-0.012	21	NC	NC	NC	NC
1908			min	-0.397	7	-0.076	7	NC	NC	NC	NC
1909		5	max	-0.064	21	-0.012	21	NC	NC	NC	NC
1910			min	-0.397	7	-0.076	7	NC	NC	NC	NC
1911	M200	1	max	-0.001	23	0	23	NC	NC	NC	NC
1912			min	-0.017	5	-0.004	5	NC	NC	NC	NC
1913		2	max	-0.001	23	0	23	NC	NC	NC	NC
1914			min	-0.017	5	-0.004	5	NC	NC	NC	NC
1915		3	max	-0.001	23	0	23	NC	NC	NC	NC
1916			min	-0.017	5	-0.004	5	NC	NC	NC	NC
1917		4	max	-0.001	23	0	23	NC	NC	NC	NC
1918			min	-0.017	5	-0.004	5	NC	NC	NC	NC
1919		5	max	-0.001	23	0	23	NC	NC	NC	NC
1920			min	-0.017	5	-0.004	5	NC	NC	NC	NC
1921	M201	1	max	1.028	4	0.268	4	NC	NC	NC	NC
1922			min	0.213	21	0.056	21	NC	NC	NC	NC
1923		2	max	1.028	4	0.268	4	NC	NC	NC	NC
1924			min	0.213	21	0.056	21	NC	NC	NC	NC
1925		3	max	1.028	4	0.268	4	NC	NC	NC	NC
1926			min	0.213	21	0.056	21	NC	NC	NC	NC
1927		4	max	1.028	4	0.268	4	NC	NC	NC	NC
1928			min	0.213	21	0.056	21	NC	NC	NC	NC
1929		5	max	1.028	4	0.268	4	NC	NC	NC	NC
1930			min	0.213	21	0.056	21	NC	NC	NC	NC
1931	M205	1	max	0	32	0	32	NC	NC	NC	NC
1932			min	0	1	0	1	NC	NC	NC	NC
1933		2	max	0	32	0	32	NC	NC	NC	NC
1934			min	0	1	0	1	NC	NC	NC	NC
1935		3	max	0	32	0	32	NC	NC	NC	NC
1936			min	0	1	0	1	NC	NC	NC	NC
1937		4	max	-0.084	23	-0.022	23	NC	NC	NC	NC
1938			min	-0.4	4	-0.104	4	NC	NC	NC	NC
1939		5	max	-0.084	23	-0.022	23	NC	NC	NC	NC
1940			min	-0.4	4	-0.104	4	NC	NC	NC	NC
1941	M212	1	max	0.126	7	0.033	7	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
1942			min	0.007	21	0.002	21	NC	NC	NC	NC
1943		2	max	0.126	7	0.033	7	NC	NC	NC	NC
1944			min	0.007	21	0.002	21	NC	NC	NC	NC
1945		3	max	0.126	7	0.033	7	NC	NC	NC	NC
1946			min	0.007	21	0.002	21	NC	NC	NC	NC
1947		4	max	0.126	7	0.033	7	NC	NC	NC	NC
1948			min	0.007	21	0.002	21	NC	NC	NC	NC
1949		5	max	0.126	7	0.033	7	NC	NC	NC	NC
1950			min	0.007	21	0.002	21	NC	NC	NC	NC
1951	M213	1	max	0	32	0	32	NC	NC	NC	NC
1952			min	0	1	0	1	NC	NC	NC	NC
1953		2	max	0	32	0	32	NC	NC	NC	NC
1954			min	0	1	0	1	NC	NC	NC	NC
1955		3	max	0	32	0	32	NC	NC	NC	NC
1956			min	0	1	0	1	NC	NC	NC	NC
1957		4	max	-0.046	23	-0.012	23	NC	NC	NC	NC
1958			min	-0.751	5	-0.196	5	NC	NC	NC	NC
1959		5	max	-0.046	23	-0.012	23	NC	NC	NC	NC
1960			min	-0.751	5	-0.196	5	NC	NC	NC	NC
1961	M216	1	max	-1.127	23	-0.294	23	NC	NC	NC	NC
1962			min	-5.512	4	-1.439	4	NC	NC	NC	NC
1963		2	max	-1.056	23	-0.276	23	NC	NC	NC	NC
1964			min	-5.361	4	-1.4	4	NC	NC	NC	NC
1965		3	max	-0.962	23	-0.251	23	NC	NC	NC	NC
1966			min	-5.014	4	-1.309	4	NC	NC	NC	NC
1967		4	max	1.876	19	0.49	19	NC	NC	NC	NC
1968			min	-1.9	13	-0.496	13	NC	NC	NC	NC
1969		5	max	1.876	19	0.49	19	NC	NC	NC	NC
1970			min	-1.9	13	-0.496	13	NC	NC	NC	NC
1971	M218	1	max	2.68	15	0.7	15	NC	NC	NC	NC
1972			min	-1.917	21	-0.501	21	NC	NC	NC	NC
1973		2	max	2.68	15	0.7	15	NC	NC	NC	NC
1974			min	-1.917	21	-0.501	21	NC	NC	NC	NC
1975		3	max	2.68	15	0.7	15	NC	NC	NC	NC
1976			min	-1.917	21	-0.501	21	NC	NC	NC	NC
1977		4	max	0.496	19	0.129	19	NC	NC	NC	NC
1978			min	-0.541	13	-0.141	13	NC	NC	NC	NC
1979		5	max	0.496	19	0.129	19	NC	NC	NC	NC
1980			min	-0.541	13	-0.141	13	NC	NC	NC	NC
1981	M220	1	max	1.2	21	0.646	21	NC	NC	NC	NC
1982			min	-1.403	15	-0.755	15	NC	NC	NC	NC
1983		2	max	1.2	21	0.646	21	NC	NC	NC	NC
1984			min	-1.403	15	-0.755	15	NC	NC	NC	NC
1985		3	max	0.179	23	0.096	23	NC	NC	NC	NC
1986			min	-1.346	5	-0.725	5	NC	NC	NC	NC
1987		4	max	0.179	23	0.096	23	NC	NC	NC	NC
1988			min	-1.346	5	-0.725	5	NC	NC	NC	NC
1989		5	max	0.179	23	0.096	23	NC	NC	NC	NC
1990			min	-1.346	5	-0.725	5	NC	NC	NC	NC
1991	M223	1	max	22.697	13	1.798	13	NC	NC	NC	NC
1992			min	-16.048	23	-1.271	23	NC	NC	NC	NC
1993		2	max	22.697	13	1.798	13	NC	NC	NC	NC
1994			min	-16.048	23	-1.271	23	NC	NC	NC	NC
1995		3	max	22.697	13	1.798	13	NC	NC	NC	NC
1996			min	-16.048	23	-1.271	23	NC	NC	NC	NC
1997		4	max	12.77	5	1.011	5	NC	NC	NC	NC
1998			min	-5.124	23	-0.406	23	NC	NC	NC	NC
1999		5	max	12.77	5	1.011	5	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
2000			min	-5.124	23	-0.406	23	NC	NC	NC	NC
2001	M224	1	max	4.517	5	0.572	5	NC	NC	NC	NC
2002			min	-1.361	23	-0.172	23	NC	NC	NC	NC
2003		2	max	4.517	5	0.572	5	NC	NC	NC	NC
2004			min	-1.361	23	-0.172	23	NC	NC	NC	NC
2005		3	max	4.517	5	0.572	5	NC	NC	NC	NC
2006			min	-1.361	23	-0.172	23	NC	NC	NC	NC
2007		4	max	7.912	5	1.002	5	NC	NC	NC	NC
2008			min	-3.143	23	-0.398	23	NC	NC	NC	NC
2009		5	max	7.912	5	1.002	5	NC	NC	NC	NC
2010			min	-3.143	23	-0.398	23	NC	NC	NC	NC
2011	M225	1	max	1.673	23	0.323	23	NC	NC	NC	NC
2012			min	-7.563	5	-1.459	5	NC	NC	NC	NC
2013		2	max	1.673	23	0.323	23	NC	NC	NC	NC
2014			min	-7.563	5	-1.459	5	NC	NC	NC	NC
2015		3	max	1.673	23	0.323	23	NC	NC	NC	NC
2016			min	-7.563	5	-1.459	5	NC	NC	NC	NC
2017		4	max	1.673	23	0.323	23	NC	NC	NC	NC
2018			min	-7.563	5	-1.459	5	NC	NC	NC	NC
2019		5	max	-18.287	22	-3.527	22	NC	NC	NC	NC
2020			min	-72.774	4	-14.035	4	NC	NC	NC	NC
2021	M229	1	max	33.865	14	2.682	14	NC	NC	NC	NC
2022			min	-25.95	24	-2.055	24	NC	NC	NC	NC
2023		2	max	21.085	14	1.67	14	NC	NC	NC	NC
2024			min	-13.17	24	-1.043	24	NC	NC	NC	NC
2025		3	max	15.511	16	1.228	16	NC	NC	NC	NC
2026			min	-7.596	22	-0.602	22	NC	NC	NC	NC
2027		4	max	16.953	5	1.343	5	NC	NC	NC	NC
2028			min	-2.875	23	-0.228	23	NC	NC	NC	NC
2029		5	max	13.791	5	1.092	5	NC	NC	NC	NC
2030			min	-3.151	23	-0.25	23	NC	NC	NC	NC
2031	M226	1	max	1.687	23	0.325	23	NC	NC	NC	NC
2032			min	-8.196	5	-1.581	5	NC	NC	NC	NC
2033		2	max	1.687	23	0.325	23	NC	NC	NC	NC
2034			min	-8.196	5	-1.581	5	NC	NC	NC	NC
2035		3	max	1.687	23	0.325	23	NC	NC	NC	NC
2036			min	-8.196	5	-1.581	5	NC	NC	NC	NC
2037		4	max	1.687	23	0.325	23	NC	NC	NC	NC
2038			min	-8.196	5	-1.581	5	NC	NC	NC	NC
2039		5	max	6.363	22	1.227	22	NC	NC	NC	NC
2040			min	-32.407	8	-6.25	8	NC	NC	NC	NC
2041	M227	1	max	0.331	23	0.064	23	NC	NC	NC	NC
2042			min	-0.651	13	-0.126	13	NC	NC	NC	NC
2043		2	max	0.331	23	0.064	23	NC	NC	NC	NC
2044			min	-0.651	13	-0.126	13	NC	NC	NC	NC
2045		3	max	0.331	23	0.064	23	NC	NC	NC	NC
2046			min	-0.651	13	-0.126	13	NC	NC	NC	NC
2047		4	max	0.331	23	0.064	23	NC	NC	NC	NC
2048			min	-0.651	13	-0.126	13	NC	NC	NC	NC
2049		5	max	0.331	23	0.064	23	NC	NC	NC	NC
2050			min	-0.651	13	-0.126	13	NC	NC	NC	NC
2051	M228	1	max	1.247	21	0.24	21	NC	NC	NC	NC
2052			min	-1.774	15	-0.342	15	NC	NC	NC	NC
2053		2	max	1.247	21	0.24	21	NC	NC	NC	NC
2054			min	-1.774	15	-0.342	15	NC	NC	NC	NC
2055		3	max	1.247	21	0.24	21	NC	NC	NC	NC
2056			min	-1.774	15	-0.342	15	NC	NC	NC	NC
2057		4	max	1.247	21	0.24	21	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
2058			min	-1.774	15	-0.342	15	NC	NC	NC	NC
2059		5	max	1.247	21	0.24	21	NC	NC	NC	NC
2060			min	-1.774	15	-0.342	15	NC	NC	NC	NC
2061	M221	1	max	0.338	23	0.065	23	NC	NC	NC	NC
2062			min	-0.42	13	-0.081	13	NC	NC	NC	NC
2063		2	max	0.338	23	0.065	23	NC	NC	NC	NC
2064			min	-0.42	13	-0.081	13	NC	NC	NC	NC
2065		3	max	0.338	23	0.065	23	NC	NC	NC	NC
2066			min	-0.42	13	-0.081	13	NC	NC	NC	NC
2067		4	max	0.609	13	0.117	13	NC	NC	NC	NC
2068			min	-0.57	23	-0.11	23	NC	NC	NC	NC
2069		5	max	5.068	13	0.977	13	NC	NC	NC	NC
2070			min	-3.448	23	-0.665	23	NC	NC	NC	NC
2071	M222	1	max	0.345	7	0.066	7	NC	NC	NC	NC
2072			min	-0.026	21	-0.005	21	NC	NC	NC	NC
2073		2	max	0.345	7	0.066	7	NC	NC	NC	NC
2074			min	-0.026	21	-0.005	21	NC	NC	NC	NC
2075		3	max	0.345	7	0.066	7	NC	NC	NC	NC
2076			min	-0.026	21	-0.005	21	NC	NC	NC	NC
2077		4	max	-0.083	21	-0.016	21	NC	NC	NC	NC
2078			min	-0.772	7	-0.149	7	NC	NC	NC	NC
2079		5	max	0.488	21	0.094	21	NC	NC	NC	NC
2080			min	-2.553	7	-0.492	7	NC	NC	NC	NC
2081	M230	1	max	0.655	7	0.126	7	NC	NC	NC	NC
2082			min	0.06	21	0.012	21	NC	NC	NC	NC
2083		2	max	0.655	7	0.126	7	NC	NC	NC	NC
2084			min	0.06	21	0.012	21	NC	NC	NC	NC
2085		3	max	0.655	7	0.126	7	NC	NC	NC	NC
2086			min	0.06	21	0.012	21	NC	NC	NC	NC
2087		4	max	0.655	7	0.126	7	NC	NC	NC	NC
2088			min	0.06	21	0.012	21	NC	NC	NC	NC
2089		5	max	3.005	7	0.579	7	NC	NC	NC	NC
2090			min	0.329	21	0.063	21	NC	NC	NC	NC
2091	M217	1	max	1.128	21	0.294	21	NC	NC	NC	NC
2092			min	-1.712	15	-0.447	15	NC	NC	NC	NC
2093		2	max	1.128	21	0.294	21	NC	NC	NC	NC
2094			min	-1.712	15	-0.447	15	NC	NC	NC	NC
2095		3	max	1.128	21	0.294	21	NC	NC	NC	NC
2096			min	-1.712	15	-0.447	15	NC	NC	NC	NC
2097		4	max	1.128	21	0.294	21	NC	NC	NC	NC
2098			min	-1.712	15	-0.447	15	NC	NC	NC	NC
2099		5	max	1.128	21	0.294	21	NC	NC	NC	NC
2100			min	-1.712	15	-0.447	15	NC	NC	NC	NC
2101	M219	1	max	1.418	5	0.37	5	NC	NC	NC	NC
2102			min	-0.681	23	-0.178	23	NC	NC	NC	NC
2103		2	max	1.418	5	0.37	5	NC	NC	NC	NC
2104			min	-0.681	23	-0.178	23	NC	NC	NC	NC
2105		3	max	1.418	5	0.37	5	NC	NC	NC	NC
2106			min	-0.681	23	-0.178	23	NC	NC	NC	NC
2107		4	max	1.418	5	0.37	5	NC	NC	NC	NC
2108			min	-0.681	23	-0.178	23	NC	NC	NC	NC
2109		5	max	1.418	5	0.37	5	NC	NC	NC	NC
2110			min	-0.681	23	-0.178	23	NC	NC	NC	NC
2111	M232	1	max	0.509	15	0.133	15	NC	NC	NC	NC
2112			min	-0.377	21	-0.099	21	NC	NC	NC	NC
2113		2	max	0.509	15	0.133	15	NC	NC	NC	NC
2114			min	-0.377	21	-0.099	21	NC	NC	NC	NC
2115		3	max	0.509	15	0.133	15	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
2116			min	-0.377	21	-0.099	21	NC	NC	NC	NC
2117		4	max	0.509	15	0.133	15	NC	NC	NC	NC
2118			min	-0.377	21	-0.099	21	NC	NC	NC	NC
2119		5	max	0.509	15	0.133	15	NC	NC	NC	NC
2120			min	-0.377	21	-0.099	21	NC	NC	NC	NC
2121	M233	1	max	-0.805	23	-0.236	23	NC	NC	NC	NC
2122			min	-2.989	4	-0.878	4	NC	NC	NC	NC
2123		2	max	-0.805	23	-0.236	23	NC	NC	NC	NC
2124			min	-2.989	4	-0.878	4	NC	NC	NC	NC
2125		3	max	-0.805	23	-0.236	23	NC	NC	NC	NC
2126			min	-2.989	4	-0.878	4	NC	NC	NC	NC
2127		4	max	-0.805	23	-0.236	23	NC	NC	NC	NC
2128			min	-2.989	4	-0.878	4	NC	NC	NC	NC
2129		5	max	-0.805	23	-0.236	23	NC	NC	NC	NC
2130			min	-2.989	4	-0.878	4	NC	NC	NC	NC
2131	M234	1	max	-0.001	23	-0.014	23	NC	NC	NC	NC
2132			min	-0.006	4	-0.091	4	NC	NC	NC	NC
2133		2	max	-0.001	23	-0.014	23	NC	NC	NC	NC
2134			min	-0.006	4	-0.091	4	NC	NC	NC	NC
2135		3	max	-0.001	23	-0.014	23	NC	NC	NC	NC
2136			min	-0.006	4	-0.091	4	NC	NC	NC	NC
2137		4	max	-0.001	23	-0.014	23	NC	NC	NC	NC
2138			min	-0.006	5	-0.089	5	NC	NC	NC	NC
2139		5	max	-0.001	23	-0.014	23	NC	NC	NC	NC
2140			min	-0.006	5	-0.089	5	NC	NC	NC	NC
2141	M235	1	max	4.59	7	1.348	7	NC	NC	NC	NC
2142			min	0.809	21	0.238	21	NC	NC	NC	NC
2143		2	max	4.59	7	1.348	7	NC	NC	NC	NC
2144			min	0.809	21	0.238	21	NC	NC	NC	NC
2145		3	max	4.59	7	1.348	7	NC	NC	NC	NC
2146			min	0.809	21	0.238	21	NC	NC	NC	NC
2147		4	max	4.59	7	1.348	7	NC	NC	NC	NC
2148			min	0.809	21	0.238	21	NC	NC	NC	NC
2149		5	max	4.59	7	1.348	7	NC	NC	NC	NC
2150			min	0.809	21	0.238	21	NC	NC	NC	NC
2151	M236	1	max	0	32	0	32	NC	NC	NC	NC
2152			min	0	1	0	1	NC	NC	NC	NC
2153		2	max	0	32	0	32	NC	NC	NC	NC
2154			min	0	1	0	1	NC	NC	NC	NC
2155		3	max	0	32	0	32	NC	NC	NC	NC
2156			min	0	1	0	1	NC	NC	NC	NC
2157		4	max	0	32	0	32	NC	NC	NC	NC
2158			min	0	1	0	1	NC	NC	NC	NC
2159		5	max	0	32	0	32	NC	NC	NC	NC
2160			min	0	1	0	1	NC	NC	NC	NC
2161	M237	1	max	-0.457	21	-0.134	21	NC	NC	NC	NC
2162			min	-4.326	7	-1.27	7	NC	NC	NC	NC
2163		2	max	-0.457	21	-0.134	21	NC	NC	NC	NC
2164			min	-4.326	7	-1.27	7	NC	NC	NC	NC
2165		3	max	-0.457	21	-0.134	21	NC	NC	NC	NC
2166			min	-4.326	7	-1.27	7	NC	NC	NC	NC
2167		4	max	-0.457	21	-0.134	21	NC	NC	NC	NC
2168			min	-4.326	7	-1.27	7	NC	NC	NC	NC
2169		5	max	-0.457	21	-0.134	21	NC	NC	NC	NC
2170			min	-4.326	7	-1.27	7	NC	NC	NC	NC
2171	M238	1	max	-0.82	21	-0.241	21	NC	NC	NC	NC
2172			min	-4.506	4	-1.323	4	NC	NC	NC	NC
2173		2	max	-0.82	21	-0.241	21	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
2174			min	-4.506	4	-1.323	4	NC	NC	NC	NC
2175		3	max	-0.82	21	-0.241	21	NC	NC	NC	NC
2176			min	-4.506	4	-1.323	4	NC	NC	NC	NC
2177		4	max	-0.82	21	-0.241	21	NC	NC	NC	NC
2178			min	-4.506	4	-1.323	4	NC	NC	NC	NC
2179		5	max	-0.82	21	-0.241	21	NC	NC	NC	NC
2180			min	-4.506	4	-1.323	4	NC	NC	NC	NC
2181	M239	1	max	-1.213	21	-0.356	21	NC	NC	NC	NC
2182			min	-5.166	4	-1.517	4	NC	NC	NC	NC
2183		2	max	-1.213	21	-0.356	21	NC	NC	NC	NC
2184			min	-5.166	4	-1.517	4	NC	NC	NC	NC
2185		3	max	-1.213	21	-0.356	21	NC	NC	NC	NC
2186			min	-5.166	4	-1.517	4	NC	NC	NC	NC
2187		4	max	-1.213	21	-0.356	21	NC	NC	NC	NC
2188			min	-5.166	4	-1.517	4	NC	NC	NC	NC
2189		5	max	-1.213	21	-0.356	21	NC	NC	NC	NC
2190			min	-5.166	4	-1.517	4	NC	NC	NC	NC
2191	M240	1	max	0.957	2	0.281	2	NC	NC	NC	NC
2192			min	0.405	23	0.119	23	NC	NC	NC	NC
2193		2	max	0.957	2	0.281	2	NC	NC	NC	NC
2194			min	0.405	23	0.119	23	NC	NC	NC	NC
2195		3	max	0.957	2	0.281	2	NC	NC	NC	NC
2196			min	0.405	23	0.119	23	NC	NC	NC	NC
2197		4	max	0.957	2	0.281	2	NC	NC	NC	NC
2198			min	0.405	23	0.119	23	NC	NC	NC	NC
2199		5	max	0.957	2	0.281	2	NC	NC	NC	NC
2200			min	0.405	23	0.119	23	NC	NC	NC	NC
2201	M241	1	max	2.003	4	0.588	4	NC	NC	NC	NC
2202			min	0.529	21	0.155	21	NC	NC	NC	NC
2203		2	max	2.003	4	0.588	4	NC	NC	NC	NC
2204			min	0.529	21	0.155	21	NC	NC	NC	NC
2205		3	max	2.003	4	0.588	4	NC	NC	NC	NC
2206			min	0.529	21	0.155	21	NC	NC	NC	NC
2207		4	max	2.003	4	0.588	4	NC	NC	NC	NC
2208			min	0.529	21	0.155	21	NC	NC	NC	NC
2209		5	max	2.003	4	0.588	4	NC	NC	NC	NC
2210			min	0.529	21	0.155	21	NC	NC	NC	NC
2211	M245	1	max	4.836	4	1.263	4	NC	NC	NC	NC
2212			min	1.064	21	0.278	21	NC	NC	NC	NC
2213		2	max	4.836	4	1.263	4	NC	NC	NC	NC
2214			min	1.064	21	0.278	21	NC	NC	NC	NC
2215		3	max	4.836	4	1.263	4	NC	NC	NC	NC
2216			min	1.064	21	0.278	21	NC	NC	NC	NC
2217		4	max	4.836	4	1.263	4	NC	NC	NC	NC
2218			min	1.064	21	0.278	21	NC	NC	NC	NC
2219		5	max	4.836	4	1.263	4	NC	NC	NC	NC
2220			min	1.064	21	0.278	21	NC	NC	NC	NC
2221	M246	1	max	-3.233	23	-0.95	23	NC	NC	NC	NC
2222			min	-11.938	4	-3.506	4	NC	NC	NC	NC
2223		2	max	-3.233	23	-0.95	23	NC	NC	NC	NC
2224			min	-11.938	4	-3.506	4	NC	NC	NC	NC
2225		3	max	-3.233	23	-0.95	23	NC	NC	NC	NC
2226			min	-11.938	4	-3.506	4	NC	NC	NC	NC
2227		4	max	-3.233	23	-0.95	23	NC	NC	NC	NC
2228			min	-11.938	4	-3.506	4	NC	NC	NC	NC
2229		5	max	-3.233	23	-0.95	23	NC	NC	NC	NC
2230			min	-11.938	4	-3.506	4	NC	NC	NC	NC
2231	M247	1	max	-1.965	23	-0.577	23	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
2232			min	-8.432	4	-2.477	4	NC	NC	NC	NC
2233		2	max	-1.965	23	-0.577	23	NC	NC	NC	NC
2234			min	-8.432	4	-2.477	4	NC	NC	NC	NC
2235		3	max	-1.965	23	-0.577	23	NC	NC	NC	NC
2236			min	-8.432	4	-2.477	4	NC	NC	NC	NC
2237		4	max	-1.965	23	-0.577	23	NC	NC	NC	NC
2238			min	-8.432	4	-2.477	4	NC	NC	NC	NC
2239		5	max	-1.965	23	-0.577	23	NC	NC	NC	NC
2240			min	-8.432	4	-2.477	4	NC	NC	NC	NC
2241	M248	1	max	-0.615	23	-0.181	23	NC	NC	NC	NC
2242			min	-5.422	4	-1.592	4	NC	NC	NC	NC
2243		2	max	-0.615	23	-0.181	23	NC	NC	NC	NC
2244			min	-5.422	4	-1.592	4	NC	NC	NC	NC
2245		3	max	-0.615	23	-0.181	23	NC	NC	NC	NC
2246			min	-5.422	4	-1.592	4	NC	NC	NC	NC
2247		4	max	-0.615	23	-0.181	23	NC	NC	NC	NC
2248			min	-5.422	4	-1.592	4	NC	NC	NC	NC
2249		5	max	-0.615	23	-0.181	23	NC	NC	NC	NC
2250			min	-5.422	4	-1.592	4	NC	NC	NC	NC
2251	M249	1	max	0.15	7	0.081	7	NC	NC	NC	NC
2252			min	-0.018	21	-0.009	21	NC	NC	NC	NC
2253		2	max	0.15	7	0.081	7	NC	NC	NC	NC
2254			min	-0.018	21	-0.009	21	NC	NC	NC	NC
2255		3	max	0.15	7	0.081	7	NC	NC	NC	NC
2256			min	-0.018	21	-0.009	21	NC	NC	NC	NC
2257		4	max	0.15	7	0.081	7	NC	NC	NC	NC
2258			min	-0.018	21	-0.009	21	NC	NC	NC	NC
2259		5	max	0.15	7	0.081	7	NC	NC	NC	NC
2260			min	-0.018	21	-0.009	21	NC	NC	NC	NC
2261	M250	1	max	0	32	0	32	NC	NC	NC	NC
2262			min	0	1	0	1	NC	NC	NC	NC
2263		2	max	0	32	0	32	NC	NC	NC	NC
2264			min	0	1	0	1	NC	NC	NC	NC
2265		3	max	0	32	0	32	NC	NC	NC	NC
2266			min	0	1	0	1	NC	NC	NC	NC
2267		4	max	0	32	0	32	NC	NC	NC	NC
2268			min	0	1	0	1	NC	NC	NC	NC
2269		5	max	0	32	0	32	NC	NC	NC	NC
2270			min	0	1	0	1	NC	NC	NC	NC
2271	M251	1	max	13.671	4	2.637	4	NC	NC	NC	NC
2272			min	2.837	22	0.547	22	NC	NC	NC	NC
2273		2	max	-0.736	21	-0.142	21	NC	NC	NC	NC
2274			min	-3.594	4	-0.693	4	NC	NC	NC	NC
2275		3	max	0	32	0	32	NC	NC	NC	NC
2276			min	0	1	0	1	NC	NC	NC	NC
2277		4	max	0	32	0	32	NC	NC	NC	NC
2278			min	0	1	0	1	NC	NC	NC	NC
2279		5	max	0	32	0	32	NC	NC	NC	NC
2280			min	0	1	0	1	NC	NC	NC	NC
2281	M252	1	max	0	32	0	32	NC	NC	NC	NC
2282			min	0	1	0	1	NC	NC	NC	NC
2283		2	max	0	32	0	32	NC	NC	NC	NC
2284			min	0	1	0	1	NC	NC	NC	NC
2285		3	max	0	32	0	32	NC	NC	NC	NC
2286			min	0	1	0	1	NC	NC	NC	NC
2287		4	max	0	32	0	32	NC	NC	NC	NC
2288			min	0	1	0	1	NC	NC	NC	NC
2289		5	max	0	32	0	32	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
2290			min	0	1	0	1	NC	NC	NC	NC
2291	M253	1	max	0	21	-0.003	21	NC	NC	NC	NC
2292			min	-0.001	4	-0.02	4	NC	NC	NC	NC
2293		2	max	0	21	-0.003	21	NC	NC	NC	NC
2294			min	-0.001	4	-0.02	4	NC	NC	NC	NC
2295		3	max	0	21	-0.003	21	NC	NC	NC	NC
2296			min	-0.001	4	-0.02	4	NC	NC	NC	NC
2297		4	max	0	21	-0.003	21	NC	NC	NC	NC
2298			min	-0.001	4	-0.02	4	NC	NC	NC	NC
2299		5	max	0	21	-0.003	21	NC	NC	NC	NC
2300			min	-0.001	4	-0.02	4	NC	NC	NC	NC
2301	M255	1	max	-0.052	21	-0.028	21	NC	NC	NC	NC
2302			min	-0.234	7	-0.126	7	NC	NC	NC	NC
2303		2	max	-0.052	21	-0.028	21	NC	NC	NC	NC
2304			min	-0.234	7	-0.126	7	NC	NC	NC	NC
2305		3	max	-0.052	21	-0.028	21	NC	NC	NC	NC
2306			min	-0.234	7	-0.126	7	NC	NC	NC	NC
2307		4	max	-0.052	21	-0.028	21	NC	NC	NC	NC
2308			min	-0.234	7	-0.126	7	NC	NC	NC	NC
2309		5	max	-0.052	21	-0.028	21	NC	NC	NC	NC
2310			min	-0.234	7	-0.126	7	NC	NC	NC	NC
2311	M256	1	max	0.774	7	0.416	7	NC	NC	NC	NC
2312			min	0.185	21	0.1	21	NC	NC	NC	NC
2313		2	max	0.774	7	0.416	7	NC	NC	NC	NC
2314			min	0.185	21	0.1	21	NC	NC	NC	NC
2315		3	max	0.774	7	0.416	7	NC	NC	NC	NC
2316			min	0.185	21	0.1	21	NC	NC	NC	NC
2317		4	max	0.774	7	0.416	7	NC	NC	NC	NC
2318			min	0.185	21	0.1	21	NC	NC	NC	NC
2319		5	max	0.774	7	0.416	7	NC	NC	NC	NC
2320			min	0.185	21	0.1	21	NC	NC	NC	NC
2321	M254	1	max	1.773	23	0.342	23	NC	NC	NC	NC
2322			min	-7.657	5	-1.477	5	NC	NC	NC	NC
2323		2	max	1.773	23	0.342	23	NC	NC	NC	NC
2324			min	-7.657	5	-1.477	5	NC	NC	NC	NC
2325		3	max	1.773	23	0.342	23	NC	NC	NC	NC
2326			min	-7.657	5	-1.477	5	NC	NC	NC	NC
2327		4	max	1.773	23	0.342	23	NC	NC	NC	NC
2328			min	-7.657	5	-1.477	5	NC	NC	NC	NC
2329		5	max	1.773	23	0.342	23	NC	NC	NC	NC
2330			min	-7.657	5	-1.477	5	NC	NC	NC	NC
2331	M257	1	max	0	32	0	32	NC	NC	NC	NC
2332			min	0	1	0	1	NC	NC	NC	NC
2333		2	max	0	32	0	32	NC	NC	NC	NC
2334			min	0	1	0	1	NC	NC	NC	NC
2335		3	max	0	32	0	32	NC	NC	NC	NC
2336			min	0	1	0	1	NC	NC	NC	NC
2337		4	max	0	32	0	32	NC	NC	NC	NC
2338			min	0	1	0	1	NC	NC	NC	NC
2339		5	max	0	32	0	32	NC	NC	NC	NC
2340			min	0	1	0	1	NC	NC	NC	NC
2341	M258	1	max	0	32	0	32	NC	NC	NC	NC
2342			min	0	1	0	1	NC	NC	NC	NC
2343		2	max	0	32	0	32	NC	NC	NC	NC
2344			min	0	1	0	1	NC	NC	NC	NC
2345		3	max	0	32	0	32	NC	NC	NC	NC
2346			min	0	1	0	1	NC	NC	NC	NC
2347		4	max	0	32	0	32	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[k-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
2348			min	0	1	0	1	NC	NC	NC	NC
2349		5	max	0	32	0	32	NC	NC	NC	NC
2350			min	0	1	0	1	NC	NC	NC	NC
2351	M244	1	max	0.661	13	0.127	13	NC	NC	NC	NC
2352			min	-0.421	23	-0.081	23	NC	NC	NC	NC
2353		2	max	0.661	13	0.127	13	NC	NC	NC	NC
2354			min	-0.421	23	-0.081	23	NC	NC	NC	NC
2355		3	max	0.661	13	0.127	13	NC	NC	NC	NC
2356			min	-0.421	23	-0.081	23	NC	NC	NC	NC
2357		4	max	0.661	13	0.127	13	NC	NC	NC	NC
2358			min	-0.421	23	-0.081	23	NC	NC	NC	NC
2359		5	max	0.661	13	0.127	13	NC	NC	NC	NC
2360			min	-0.421	23	-0.081	23	NC	NC	NC	NC
2361	M242	1	max	0.01	5	0.159	5	NC	NC	NC	NC
2362			min	0.002	23	0.034	23	NC	NC	NC	NC
2363		2	max	0.01	5	0.159	5	NC	NC	NC	NC
2364			min	0.002	23	0.034	23	NC	NC	NC	NC
2365		3	max	0.01	5	0.159	5	NC	NC	NC	NC
2366			min	0.002	23	0.034	23	NC	NC	NC	NC
2367		4	max	0.01	5	0.159	5	NC	NC	NC	NC
2368			min	0.002	23	0.034	23	NC	NC	NC	NC
2369		5	max	0.01	5	0.159	5	NC	NC	NC	NC
2370			min	0.002	23	0.034	23	NC	NC	NC	NC

Envelope Member Section Stresses

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
1	F1_G19	1	max	0.013	21	2.606	7	0.002	15	0	32	0	32	0	32	0	32
2			min	-0.03	15	0.327	21	-0.002	21	0	1	0	1	0	1	0	1
3		2	max	0.013	21	2.349	7	0.002	15	11.313	7	-1.343	21	0.096	15	0.079	21
4			min	-0.03	15	0.266	21	-0.002	21	1.343	21	-11.313	7	-0.079	21	-0.096	15
5		3	max	0.931	24	-0.052	23	0	32	16.917	5	-1.924	23	0	32	0	15
6			min	-0.931	14	-0.251	5	0	1	1.924	23	-16.917	5	0	15	0	1
7		4	max	0.34	22	-0.11	23	0	32	14.432	5	-1.553	23	0	14	0	24
8			min	-0.34	16	-0.874	5	0	1	1.553	23	-14.432	5	0	24	0	14
9		5	max	0	14	-0.408	23	0	16	0	32	0	32	0	32	0	32
10			min	0	24	-3.952	5	0	22	0	1	0	1	0	1	0	1
11	F1_G20	1	max	0.441	19	0.334	8	0	32	0	32	0	32	0	32	0	32
12			min	-0.441	13	0.199	23	0	1	0	1	0	1	0	1	0	1
13		2	max	0.441	19	0.177	8	0	32	1.22	8	-0.733	23	0	7	0	32
14			min	-0.441	13	0.107	23	0	1	0.733	23	-1.22	4	0	9	0	7
15		3	max	0.83	21	0.008	1	0	32	1.66	8	-1.002	23	0	7	0	21
16			min	-0.83	15	0.005	22	0	1	1.002	23	-1.66	4	0	17	0	7
17		4	max	0.83	21	-0.105	23	0	32	1.269	7	-0.769	32	0	7	0	21
18			min	-0.83	15	-0.174	4	0	1	0.769	29	-1.269	7	0	21	0	7
19		5	max	0.503	21	-0.222	24	0	15	0	32	0	32	0	32	0	32
20			min	0	6	-0.365	7	0	21	0	1	0	1	0	1	0	1
21	F1_G32	1	max	0.519	13	0.685	7	0	19	0	32	0	32	0	32	0	32
22			min	-0.444	19	0.151	21	0	13	0	1	0	1	0	1	0	1
23		2	max	0.519	13	-0.06	23	0	19	1.536	7	-0.34	21	0	19	0	13
24			min	-0.444	19	-0.271	5	0	13	0.34	21	-1.536	7	0	13	0	19
25		3	max	0.519	13	-0.271	23	0	19	-0.886	23	4.021	5	0	19	0	13
26			min	-0.444	19	-1.227	5	0	13	-4.021	5	0.886	23	0	13	0	19
27		4	max	0.444	19	0.272	5	0	19	1.531	7	-0.339	21	0	13	0	19
28			min	-0.519	13	0.06	23	0	13	0.339	21	-1.531	7	0	19	0	13
29		5	max	0.444	19	-0.151	21	0	19	0	32	0	32	0	32	0	32
30			min	-0.519	13	-0.684	7	0	13	0	1	0	1	0	1	0	1
31	F1_G158	1	max	1.331	21	0.499	7	0	13	0	32	0	32	0	32	0	32
32			min	-1.366	15	0.116	21	0	19	0	1	0	1	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
33		2	max	1.331	21	-0.069	23	0	13	0.585	7	-0.131	21	0.001	13	0.001	19
34			min	-1.366	15	-0.292	5	0	19	0.131	21	-0.585	7	-0.001	19	-0.001	13
35		3	max	1.331	21	0.571	2	0	13	-0.783	23	3.302	5	0.001	13	0.001	19
36			min	-1.366	15	-1.083	5	0	19	-3.302	5	0.783	23	-0.001	19	-0.001	13
37		4	max	1.366	15	0.292	5	0	13	0.585	7	-0.131	21	0.001	19	0.001	13
38			min	-1.331	21	0.069	23	0	19	0.131	21	-0.585	7	-0.001	13	-0.001	19
39		5	max	1.366	15	-0.116	21	0	13	0	32	0	32	0	32	0	32
40			min	-1.331	21	-0.499	7	0	19	0	1	0	1	0	1	0	1
41	(B-6)_L1	1	max	13.11	5	0	19	0	23	0	32	0	32	0.001	13	0.001	19
42			min	3.281	23	0	13	0	13	0	1	0	1	-0.001	19	-0.001	13
43		2	max	13.092	5	0	19	0	23	0	19	0	13	0	13	0	19
44			min	3.268	23	0	13	0	13	0	13	0	19	0	19	0	13
45		3	max	13.075	5	0	19	0	23	0	19	0	13	0	13	0	19
46			min	3.255	23	0	13	0	13	0	13	0	19	0	19	0	13
47		4	max	13.057	5	0	19	0	23	0	19	0	13	0	13	0	19
48			min	3.242	23	0	13	0	13	0	13	0	19	0	19	0	13
49		5	max	13.039	5	0	19	0	23	0	19	0	13	0	21	0	19
50			min	3.229	23	0	13	0	13	0	13	0	19	0	19	0	21
51	(D-7)_L1	1	max	2.888	7	0	13	0	13	0	32	0	32	0	19	0	13
52			min	0.691	21	0	19	0	19	0	1	0	1	0	13	0	19
53		2	max	2.87	7	0	13	0	13	0	13	0	19	0	19	0	13
54			min	0.678	21	0	19	0	19	0	19	0	13	0	13	0	19
55		3	max	2.852	7	0	13	0	13	0	13	0	19	0	19	0	13
56			min	0.665	21	0	19	0	19	0	19	0	13	0	13	0	19
57		4	max	2.835	7	0	13	0	13	0	13	0	19	0	13	0	19
58			min	0.651	21	0	19	0	19	0	19	0	13	0	19	0	13
59		5	max	2.817	7	0	13	0	13	0	13	0	19	0	13	0	19
60			min	0.638	21	0	19	0	19	0	19	0	13	0	19	0	13
61	(B-7)_L1	1	max	10.358	7	0	13	0	13	0	32	0	32	0	13	0	19
62			min	2.391	21	0	19	0	19	0	1	0	1	0	19	0	13
63		2	max	10.34	7	0	13	0	13	0	13	0	19	0	13	0	19
64			min	2.378	21	0	19	0	19	0	19	0	13	0	19	0	13
65		3	max	10.323	7	0	13	0	13	0	13	0	19	0	13	0	19
66			min	2.365	21	0	19	0	19	0	19	0	13	0	19	0	13
67		4	max	10.305	7	0	13	0	13	0	13	0	19	0	13	0	19
68			min	2.351	21	0	19	0	19	0	19	0	13	0	19	0	13
69		5	max	10.288	7	0	13	0	13	0	13	0	19	0	13	0	19
70			min	2.338	21	0	19	0	19	0	19	0	13	0	19	0	13
71	C16_L1	1	max	6.795	7	0	21	0	7	0	32	0.001	7	0	32	0.007	7
72			min	1.471	24	0	8	0	13	-0.001	7	0	1	-0.007	7	0	1
73		2	max	6.777	7	0	21	0	7	-0.001	21	0.006	7	0	4	0.005	7
74			min	1.458	24	0	8	0	13	-0.006	7	0.001	21	-0.005	7	0	4
75		3	max	6.76	7	0	21	0	7	-0.002	21	0.01	7	0.001	4	0.003	7
76			min	1.445	24	0	8	0	13	-0.01	7	0.002	21	-0.003	7	-0.001	4
77		4	max	6.742	7	0	21	0	7	-0.002	21	0.015	7	0.001	4	0.001	13
78			min	1.431	24	0	8	0	13	-0.015	7	0.002	21	-0.001	13	-0.001	4
79		5	max	6.725	7	0	21	0	7	-0.003	21	0.019	7	0.002	4	0.002	13
80			min	1.418	24	0	8	0	13	-0.019	7	0.003	21	-0.002	13	-0.002	4
81	C17_L1	1	max	3.834	4	-0.043	21	-0.012	21	0	13	0	32	0.001	13	0	32
82			min	0.794	24	-0.279	7	-0.061	4	0	1	0	13	0	1	-0.001	13
83		2	max	3.816	4	-0.043	21	-0.012	21	-0.363	21	2.347	7	-0.08	21	0.404	4
84			min	0.78	24	-0.279	7	-0.061	4	-2.347	7	0.363	21	-0.404	4	0.08	21
85		3	max	3.799	4	-0.043	21	-0.012	21	-0.726	21	4.694	7	-0.16	21	0.807	4
86			min	0.767	24	-0.279	7	-0.061	4	-4.694	7	0.726	21	-0.807	4	0.16	21
87		4	max	3.781	4	0.234	13	0.069	15	-1.089	21	7.041	7	-0.241	21	1.211	4
88			min	0.754	24	-0.279	7	-0.061	4	-7.041	7	1.089	21	-1.211	4	0.241	21
89		5	max	2.269	5	0.234	13	0.126	4	1.29	21	1.702	15	-0.006	21	0.038	4
90			min	0.265	23	-0.208	23	0.024	21	-1.702	15	-1.29	21	-0.038	4	0.006	21

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
91	C18_L1	1	max	6.204	4	0.122	23	-0.008	21	0.005	21	0	32	0	32	0	21
92			min	1.259	21	-0.221	13	-0.044	4	0	1	-0.005	21	0	21	0	1
93		2	max	6.186	4	0.122	23	-0.008	21	1.025	23	1.86	13	-0.055	21	0.292	4
94			min	1.246	21	-0.221	13	-0.044	4	-1.86	13	-1.025	23	-0.292	4	0.055	21
95		3	max	6.169	4	0.122	23	-0.008	21	2.051	23	3.72	13	-0.109	21	0.583	4
96			min	1.232	21	-0.221	13	-0.044	4	-3.72	13	-2.051	23	-0.583	4	0.109	21
97		4	max	6.151	4	0.465	21	0.134	4	4.769	15	5.58	13	-0.169	21	0.89	4
98			min	1.219	21	-0.565	15	0.025	21	-5.58	13	-4.769	15	-0.89	4	0.169	21
99		5	max	5.139	7	0.465	21	0.134	4	0.049	5	-0.007	23	0	23	0	5
100			min	0.873	21	-0.565	15	0.025	21	0.007	23	-0.049	5	0	5	0	23
101	(N-6)_L1	1	max	0.725	7	0	21	0	13	0	32	0	32	0.001	19	0.001	13
102			min	0.202	21	0	7	0	19	0	1	0	1	-0.001	13	-0.001	19
103		2	max	0.708	7	0	21	0	13	0	21	0.001	7	0	19	0	13
104			min	0.189	21	0	7	0	19	-0.001	7	0	21	0	13	0	19
105		3	max	0.69	7	0	21	0	13	0	21	0.002	7	0	19	0	13
106			min	0.176	21	0	7	0	19	-0.002	7	0	21	0	13	0	19
107		4	max	0.673	7	0	21	0	13	-0.001	21	0.003	7	0	19	0	13
108			min	0.163	21	0	7	0	19	-0.003	7	0.001	21	0	13	0	19
109		5	max	0.655	7	0	21	0	13	-0.001	21	0.004	7	0	15	0	21
110			min	0.149	21	0	7	0	19	-0.004	7	0.001	21	0	21	0	15
111	M12	1	max	0	32	0.114	15	0	32	0	32	0	32	0	32	0	32
112			min	-3.041	23	0	1	0	1	0	1	0	1	0	1	0	1
113		2	max	0	32	0.057	15	0	32	3.656	15	0	32	0	32	0	32
114			min	-3.027	23	0	1	0	1	0	1	-3.656	15	0	1	0	1
115		3	max	0	32	0	32	0	32	4.874	15	0	32	0	32	0	32
116			min	-3.014	23	0	1	0	1	0	1	-4.874	15	0	1	0	1
117		4	max	0	32	0	32	0	32	3.656	15	0	32	0	32	0	32
118			min	-3.001	23	-0.057	11	0	1	0	1	-3.656	15	0	1	0	1
119		5	max	0	32	0	32	0	32	0	32	0	32	0	32	0	32
120			min	-2.988	23	-0.114	11	0	1	0	1	0	1	0	1	0	1
121	M13	1	max	0	32	0.114	9	0	32	0	32	0	32	0	32	0	32
122			min	-2.67	21	0	1	0	1	0	1	0	1	0	1	0	1
123		2	max	0	32	0.057	9	0	32	3.656	9	0	32	0	32	0	32
124			min	-2.657	21	0	1	0	1	0	1	-3.656	9	0	1	0	1
125		3	max	0	32	0	32	0	32	4.874	9	0	32	0	32	0	32
126			min	-2.644	21	0	1	0	1	0	1	-4.874	9	0	1	0	1
127		4	max	0	32	0	32	0	32	3.656	9	0	32	0	32	0	32
128			min	-2.631	21	-0.057	17	0	1	0	1	-3.656	9	0	1	0	1
129		5	max	0	32	0	32	0	32	0	32	0	32	0	32	0	32
130			min	-2.618	21	-0.114	17	0	1	0	1	0	1	0	1	0	1
131	M14	1	max	0	32	0	32	0	32	0	32	0	32	0	32	0	32
132			min	0	1	0	1	0	1	0	1	0	1	0	1	0	1
133		2	max	0	32	0	32	0	32	0	32	0	32	0	32	0	32
134			min	0	1	0	1	0	1	0	1	0	1	0	1	0	1
135		3	max	0	32	0	32	0	32	0	32	0	32	0	32	0	32
136			min	0	1	0	1	0	1	0	1	0	1	0	1	0	1
137		4	max	0	32	0	32	0	32	0	32	0	32	0	32	0	32
138			min	0	1	0	1	0	1	0	1	0	1	0	1	0	1
139		5	max	0	32	0	32	0	32	0	32	0	32	0	32	0	32
140			min	0	1	0	1	0	1	0	1	0	1	0	1	0	1
141	M15	1	max	0	32	0.076	21	0	32	0	32	0	32	0	32	0	32
142			min	-0.059	22	0	1	0	1	0	1	0	1	0	1	0	1
143		2	max	0	32	0.038	21	0	32	2.389	21	0	32	0	32	0	32
144			min	-0.071	22	0	1	0	1	0	1	-2.389	21	0	1	0	1
145		3	max	0	32	0	32	0	32	3.185	21	0	32	0	32	0	32
146			min	-0.084	22	0	1	0	1	0	1	-3.185	21	0	1	0	1
147		4	max	0	32	0	32	0	32	2.389	21	0	32	0	32	0	32
148			min	-0.096	22	-0.038	22	0	1	0	1	-2.389	21	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
149		5	max	0	32	0	32	0	32	0	32	0	32	0	32	0	32
150			min	-0.108	22	-0.076	22	0	1	0	1	0	1	0	1	0	1
151	M16	1	max	3.942	15	0.092	1	0	32	0	32	0	32	0	32	0	32
152			min	-3.028	21	0.059	23	0	1	0	1	0	1	0	1	0	1
153		2	max	3.924	15	0.046	1	0	32	1.249	1	-0.803	23	0	32	0	32
154			min	-3.041	21	0.03	23	0	1	0.803	23	-1.249	1	0	1	0	1
155		3	max	3.907	15	0	32	0	32	1.666	1	-1.071	23	0	32	0	32
156			min	-3.054	21	0	1	0	1	1.071	23	-1.666	1	0	1	0	1
157		4	max	3.889	15	-0.03	32	0	32	1.249	1	-0.803	23	0	32	0	32
158			min	-3.067	21	-0.046	1	0	1	0.803	23	-1.249	1	0	1	0	1
159		5	max	3.872	15	-0.059	32	0	32	0	32	0	32	0	32	0	32
160			min	-3.08	21	-0.092	1	0	1	0	1	0	1	0	1	0	1
161	M17	1	max	4.05	13	0.092	1	0	32	0	32	0	32	0	32	0	32
162			min	-2.982	23	0.059	29	0	1	0	1	0	1	0	1	0	1
163		2	max	4.068	13	0.046	1	0	32	1.248	1	-0.802	32	0	32	0	32
164			min	-2.969	23	0.03	29	0	1	0.802	29	-1.248	1	0	1	0	1
165		3	max	4.086	13	0	32	0	32	1.664	1	-1.07	32	0	32	0	32
166			min	-2.956	23	0	1	0	1	1.07	29	-1.664	1	0	1	0	1
167		4	max	4.103	13	-0.03	23	0	32	1.248	1	-0.802	32	0	32	0	32
168			min	-2.943	23	-0.046	1	0	1	0.802	29	-1.248	1	0	1	0	1
169		5	max	4.121	13	-0.059	23	0	32	0	32	0	32	0	32	0	32
170			min	-2.93	23	-0.092	1	0	1	0	1	0	1	0	1	0	1
171	M18	1	max	4.222	13	0.07	1	0	32	0	32	0	32	0	32	0	32
172			min	-3.24	23	0.045	23	0	1	0	1	0	1	0	1	0	1
173		2	max	4.205	13	0.035	1	0	32	0.842	1	-0.541	23	0	32	0	32
174			min	-3.253	23	0.023	23	0	1	0.541	23	-0.842	1	0	1	0	1
175		3	max	4.187	13	0	32	0	32	1.123	1	-0.722	23	0	32	0	32
176			min	-3.266	23	0	1	0	1	0.722	23	-1.123	1	0	1	0	1
177		4	max	4.17	13	-0.023	21	0	32	0.842	1	-0.541	23	0	32	0	32
178			min	-3.279	23	-0.035	1	0	1	0.541	23	-0.842	1	0	1	0	1
179		5	max	4.152	13	-0.045	21	0	32	0	32	0	32	0	32	0	32
180			min	-3.292	23	-0.07	1	0	1	0	1	0	1	0	1	0	1
181	M19	1	max	3.998	15	0.07	1	0	32	0	32	0	32	0	32	0	32
182			min	-3.376	21	0.045	23	0	1	0	1	0	1	0	1	0	1
183		2	max	4.015	15	0.035	1	0	32	0.842	1	-0.541	23	0	32	0	32
184			min	-3.363	21	0.023	23	0	1	0.541	23	-0.842	1	0	1	0	1
185		3	max	4.033	15	0	32	0	32	1.123	1	-0.722	23	0	32	0	32
186			min	-3.35	21	0	1	0	1	0.722	23	-1.123	1	0	1	0	1
187		4	max	4.05	15	-0.023	21	0	32	0.842	1	-0.541	23	0	32	0	32
188			min	-3.337	21	-0.035	1	0	1	0.541	23	-0.842	1	0	1	0	1
189		5	max	4.068	15	-0.045	21	0	32	0	32	0	32	0	32	0	32
190			min	-3.324	21	-0.07	1	0	1	0	1	0	1	0	1	0	1
191	F1_G1	1	max	0	15	3.153	5	0	15	0	32	0	32	0	32	0	32
192			min	0	21	1.106	23	0	21	0	1	0	1	0	1	0	1
193		2	max	0	22	0.702	5	0	32	24.804	5	-8.647	23	0	15	0	21
194			min	0	8	0.253	23	0	1	8.647	23	-24.804	5	0	21	0	15
195		3	max	0	24	-0.6	21	0	32	25.395	5	-8.866	23	0	15	0	21
196			min	0	14	-1.75	7	0	1	8.866	23	-25.395	5	0	21	0	15
197		4	max	0	16	-1.453	21	0	21	1.773	5	-0.66	23	0	15	0	21
198			min	0	22	-4.201	7	0	15	0.66	23	-1.773	5	0	21	0	15
199		5	max	0	21	3.705	7	0	15	0	21	0	7	0	15	0	21
200			min	0	15	1.272	21	0	21	0	7	0	21	0	21	0	15
201	F1_G3	1	max	0	15	-1.783	23	0	21	0	21	0	7	0	15	0	21
202			min	0	21	-5.193	5	0	15	0	7	0	21	0	21	0	15
203		2	max	0	14	3.487	5	0	32	4.319	7	-1.498	21	0	24	0	14
204			min	0	24	1.207	23	0	1	1.498	21	-4.319	7	0	14	0	24
205		3	max	0	13	0	32	0	32	25.826	4	-8.92	24	0	15	0	21
206			min	0	23	0	7	0	1	8.92	24	-25.826	4	0	21	0	15

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
207		4	max	0	24	-1.207	21	0	14	4.319	5	-1.498	23	0	14	0	24
208			min	0	14	-3.487	7	0	24	1.498	23	-4.319	5	0	24	0	14
209		5	max	0	24	5.193	7	0	15	0	21	0	7	0	15	0	21
210			min	0	14	1.783	21	0	21	0	7	0	21	0	21	0	15
211	F1_G5	1	max	0	15	-1.272	23	0	13	0	23	0	5	0	23	0	13
212			min	0	21	-3.705	5	0	23	0	5	0	23	0	13	0	23
213		2	max	0	22	4.201	5	0	23	1.773	7	-0.66	21	0	23	0	13
214			min	0	16	1.453	23	0	13	0.66	21	-1.773	7	0	13	0	23
215		3	max	0	15	1.75	5	0	32	25.395	7	-8.866	21	0	13	0	23
216			min	0	21	0.6	23	0	1	8.866	21	-25.395	7	0	23	0	13
217		4	max	0	23	-0.253	21	0	32	24.804	7	-8.647	21	0	13	0	23
218			min	0	13	-0.702	7	0	1	8.647	21	-24.804	7	0	23	0	13
219		5	max	0	24	-1.106	21	0	13	0	32	0	32	0	32	0	32
220			min	0	14	-3.153	7	0	19	0	1	0	1	0	1	0	1
221	F1_G6	1	max	0	14	3.153	7	0	15	0	32	0	32	0	32	0	32
222			min	0	24	1.106	21	0	21	0	1	0	1	0	1	0	1
223		2	max	0	32	0.702	7	0	32	24.804	7	-8.646	21	0	7	0	21
224			min	0	1	0.253	21	0	1	8.646	21	-24.804	7	0	21	0	7
225		3	max	0	32	-0.6	23	0	32	25.395	7	-8.866	21	0	15	0	21
226			min	0	1	-1.75	5	0	1	8.866	21	-25.395	7	0	21	0	15
227		4	max	0	24	-1.453	23	0	21	1.773	7	-0.66	21	0	15	0	21
228			min	0	14	-4.201	5	0	15	0.66	21	-1.773	7	0	21	0	15
229		5	max	0	7	3.705	5	0	15	0	23	0	5	0	15	0	21
230			min	0	21	1.272	23	0	21	0	5	0	23	0	21	0	15
231	F1_G8	1	max	0	21	-1.783	21	0	21	0	23	0	5	0	15	0	21
232			min	0	7	-5.193	7	0	15	0	5	0	23	0	21	0	15
233		2	max	0	32	3.487	5	0	32	4.319	5	-1.498	23	0	21	0	15
234			min	0	1	1.207	23	0	1	1.498	23	-4.319	5	0	15	0	21
235		3	max	0	32	0	21	0	32	25.825	5	-8.92	23	0	32	0	13
236			min	0	1	0	7	0	1	8.92	23	-25.825	5	0	13	0	1
237		4	max	0	32	-1.207	21	0	32	4.319	5	-1.498	23	0	13	0	23
238			min	0	1	-3.487	7	0	1	1.498	23	-4.319	5	0	23	0	13
239		5	max	0	15	5.193	5	0	15	0	23	0	5	0	15	0	21
240			min	0	21	1.783	23	0	21	0	5	0	23	0	21	0	15
241	F1_G10	1	max	0	15	-1.272	21	0	13	0	23	0	5	0	23	0	13
242			min	0	13	-3.705	7	0	23	0	5	0	23	0	13	0	23
243		2	max	0	14	4.201	5	0	23	1.773	5	-0.66	23	0	23	0	13
244			min	0	24	1.453	23	0	13	0.66	23	-1.773	5	0	13	0	23
245		3	max	0	32	1.75	5	0	32	25.395	7	-8.866	21	0	21	0	15
246			min	0	1	0.6	23	0	1	8.866	21	-25.395	7	0	15	0	21
247		4	max	0	32	-0.253	21	0	32	24.804	7	-8.646	21	0	13	0	23
248			min	0	1	-0.702	7	0	1	8.646	21	-24.804	7	0	23	0	13
249		5	max	0	24	-1.106	21	0	13	0	32	0	32	0	32	0	32
250			min	0	14	-3.153	7	0	19	0	1	0	1	0	1	0	1
251	F1_G11	1	max	0	21	0.339	7	0	23	0	32	0	32	0	32	0	32
252			min	0	7	0.121	21	0	13	0	1	0	1	0	1	0	1
253		2	max	0	21	0.308	7	0	23	0.526	7	-0.185	21	0	23	0	13
254			min	0	7	0.107	21	0	13	0.185	21	-0.526	7	0	13	0	23
255		3	max	0	21	0.276	7	0	23	1.001	7	-0.348	21	0	23	0	13
256			min	0	7	0.093	21	0	13	0.348	21	-1.001	7	0	13	0	23
257		4	max	0	21	0.244	7	0	23	1.424	7	-0.487	21	0	23	0	13
258			min	0	7	0.078	21	0	13	0.487	21	-1.424	7	0	13	0	23
259		5	max	0	7	-0.437	23	0	23	0	32	0	32	0	32	0	32
260			min	0	21	-1.279	5	0	13	0	1	0	1	0	1	0	1
261	F1_G12	1	max	0	15	1.5	4	0	15	0	32	0	32	0	32	0	32
262			min	0	21	0.474	21	0	21	0	1	0	1	0	1	0	1
263		2	max	0	15	1.468	4	0	15	6.597	4	-2.053	21	0	15	0	21
264			min	0	21	0.45	21	0	21	2.053	21	-6.597	4	0	21	0	15

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
265		3	max	0	22	0.543	4	0	13	9.14	4	-2.69	21	0.004	13	0.004	19
266			min	0	16	0.127	21	0	19	2.69	21	-9.14	4	-0.004	19	-0.004	13
267		4	max	0	32	-0.267	23	0	32	6.142	5	-1.901	23	0	21	0	15
268			min	0	1	-0.921	5	0	1	1.901	23	-6.142	5	0	15	0	21
269		5	max	0.001	21	-0.59	23	0	21	0	32	0	32	0	32	0	32
270			min	-0.001	15	-1.847	5	0	15	0	1	0	1	0	1	0	1
271	F1_G13	1	max	0	15	1.995	5	0	15	0	32	0	32	0	32	0	32
272			min	0	21	0.61	23	0	21	0	1	0	1	0	1	0	1
273		2	max	0	32	1.066	5	0	32	8.357	5	-2.47	23	0	15	0	13
274			min	0	1	0.284	23	0	1	2.47	23	-8.357	5	0	13	0	15
275		3	max	0	16	-0.157	21	0	19	12.584	5	-3.484	23	0.004	13	0.003	19
276			min	0	22	-0.733	7	0	13	3.484	23	-12.584	5	-0.003	19	-0.004	13
277		4	max	0	21	-0.483	21	0	13	8.357	7	-2.47	21	0	23	0	13
278			min	0	15	-1.662	7	0	23	2.47	21	-8.357	7	0	13	0	23
279		5	max	0	21	-0.51	21	0	13	0	32	0	32	0	32	0	32
280			min	0	15	-1.697	7	0	23	0	1	0	1	0	1	0	1
281	F1_G14	1	max	0	7	0.662	8	0	32	0	32	0	32	0	32	0	32
282			min	0	1	0.057	23	0	1	0	1	0	1	0	1	0	1
283		2	max	0	7	0.333	8	0	32	0.703	8	-0.062	23	0	32	0	32
284			min	0	1	0.03	23	0	1	0.062	23	-0.703	4	0	1	0	1
285		3	max	0	7	0	1	0	32	0.938	8	-0.083	23	0	32	0	32
286			min	0	1	0	23	0	1	0.083	23	-0.938	4	0	1	0	1
287		4	max	0	7	-0.029	21	0	32	0.704	8	-0.062	23	0	32	0	32
288			min	0	1	-0.332	7	0	1	0.062	23	-0.704	4	0	1	0	1
289		5	max	0	7	-0.059	21	0	32	0	32	0	32	0	32	0	32
290			min	0	1	-0.665	7	0	1	0	1	0	1	0	1	0	1
291	F1_G17	1	max	0	15	2.793	5	0	21	0	32	0	32	0	32	0	32
292			min	0	21	0.33	23	0	15	0	1	0	1	0	1	0	1
293		2	max	0	15	2.443	5	0	21	19.209	5	-2.144	23	0	21	0	15
294			min	0	21	0.261	23	0	15	2.144	23	-19.209	5	0	15	0	21
295		3	max	0	16	0.246	5	0	22	27.259	7	-2.901	21	0	16	0	22
296			min	0	22	0.007	23	0	16	2.901	21	-27.259	7	0	22	0	16
297		4	max	0	21	-0.269	21	0	24	21.68	7	-2.208	21	0	14	0	24
298			min	0	15	-2.421	7	0	14	2.208	21	-21.68	7	0	24	0	14
299		5	max	0	21	-0.335	21	0	24	0	32	0	32	0	32	0	32
300			min	0	15	-3.58	7	0	14	0	1	0	1	0	1	0	1
301	F1_G18	1	max	0	16	3.674	7	0	14	0	32	0	32	0	32	0	32
302			min	0	22	0.696	21	0	24	0	1	0	1	0	1	0	1
303		2	max	0	16	3.537	7	0	14	12.945	7	-2.419	21	0	14	0	24
304			min	0	22	0.654	21	0	24	2.419	21	-12.945	7	0	24	0	14
305		3	max	0	22	2.555	7	0	16	22.842	7	-4.465	21	0	16	0	22
306			min	0	16	0.542	21	0	22	4.465	21	-22.842	7	0	22	0	16
307		4	max	0.034	15	-0.773	21	0.002	21	14.649	7	-2.847	21	0.111	15	0.091	21
308			min	-0.015	21	-3.898	7	-0.003	15	2.847	21	-14.649	7	-0.091	21	-0.111	15
309		5	max	0.034	15	-0.815	21	0.002	21	0	32	0	32	0	32	0	32
310			min	-0.015	21	-4.29	7	-0.003	15	0	1	0	1	0	1	0	1
311	F1_G21	1	max	0	32	2.624	7	0	32	0	32	0	32	0	32	0	32
312			min	0	1	0.581	21	0	1	0	1	0	1	0	1	0	1
313		2	max	0	32	1.868	7	0	32	13.083	7	-2.872	21	0	15	0	21
314			min	0	1	0.405	21	0	1	2.872	21	-13.083	7	0	21	0	15
315		3	max	0	32	1.058	7	0	32	21.759	7	-4.719	21	0	15	0	21
316			min	0	1	0.189	21	0	1	4.719	21	-21.759	7	0	21	0	15
317		4	max	0	32	-0.629	21	0	32	20.096	7	-4.184	21	0	23	0	13
318			min	0	1	-3.023	7	0	1	4.184	21	-20.096	7	0	13	0	23
319		5	max	0	32	-0.806	21	0	32	0	32	0	32	0	32	0	32
320			min	0	1	-3.897	7	0	1	0	1	0	1	0	1	0	1
321	F1_G22	1	max	0	15	3.045	7	0	23	0	32	0	32	0	32	0	32
322			min	0	21	0.758	21	0	13	0	1	0	1	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
323		2	max	0	22	1.477	7	0	19	24.34	7	-5.786	21	0	13	0	19
324			min	0	16	0.389	21	0	13	5.786	21	-24.34	7	0	19	0	13
325		3	max	0	22	-0.149	23	0	19	29.184	7	-6.671	21	0	13	0	19
326			min	0	16	-0.872	5	0	13	6.671	21	-29.184	7	0	19	0	13
327		4	max	0	21	-0.743	23	0	7	13.523	7	-2.579	21	0.052	15	0.031	21
328			min	-0.004	7	-3.277	5	0	21	2.579	21	-13.523	7	-0.031	21	-0.052	15
329		5	max	0	21	-0.436	21	0	13	0	32	0	32	0	32	0	32
330			min	0	15	-2.181	7	0	19	0	1	0	1	0	1	0	1
331	F1_G23	1	max	0	32	3.846	5	0	21	0	32	0	32	0	32	0	32
332			min	0	1	0.737	23	0	15	0	1	0	1	0	1	0	1
333		2	max	0	32	3.78	5	0	21	23.364	5	-4.361	23	0	21	0	15
334			min	0	1	0.687	23	0	15	4.361	23	-23.364	5	0	15	0	21
335		3	max	0	15	1.064	5	0	22	31.412	7	-5.797	21	0	22	0	16
336			min	0	21	0.171	23	0	16	5.797	21	-31.412	7	0	16	0	22
337		4	max	0	32	-0.355	21	0	32	23.526	7	-4.306	21	0	16	0	22
338			min	0	1	-1.77	7	0	1	4.306	21	-23.526	7	0	22	0	16
339		5	max	0	21	-0.851	21	0	16	0	32	0	32	0	32	0	32
340			min	0	7	-4.472	7	-0.004	21	0	1	0	1	0	1	0	1
341	F1_G24	1	max	0.642	21	3.427	8	0	32	0	32	0	32	0	32	0	32
342			min	-0.779	15	0.424	21	0	1	0	1	0	1	0	1	0	1
343		2	max	0.642	21	1.726	8	0	32	17.835	8	-2.275	32	0	32	0	32
344			min	-0.779	15	0.222	21	0	1	2.275	21	-17.835	4	0	1	0	1
345		3	max	0.642	21	0.001	1	0	32	23.79	8	-3.041	32	0	32	0	32
346			min	-0.779	15	0.001	21	0	1	3.041	21	-23.79	4	0	1	0	1
347		4	max	0.642	21	-0.22	32	0	32	17.845	8	-2.283	32	0	32	0	32
348			min	-0.779	15	-1.725	4	0	1	2.283	21	-17.845	4	0	1	0	1
349		5	max	0.642	21	-0.442	32	0	32	0	32	0	32	0	32	0	32
350			min	-0.779	15	-3.45	4	0	1	0	1	0	1	0	1	0	1
351	F1_G25	1	max	0	32	2.65	8	0	32	0	32	0	32	0	32	0	32
352			min	0	1	0.277	21	0	1	0	1	0	1	0	1	0	1
353		2	max	0	32	1.335	8	0	32	10.994	8	-1.195	32	0	32	0	32
354			min	0	1	0.146	21	0	1	1.195	21	-10.994	4	0	1	0	1
355		3	max	0	32	0.001	1	0	32	14.666	8	-1.599	32	0	32	0	32
356			min	0	1	0	21	0	1	1.599	21	-14.666	4	0	1	0	1
357		4	max	0	32	-0.145	32	0	32	11.001	8	-1.2	32	0	32	0	32
358			min	0	1	-1.334	4	0	1	1.2	21	-11.001	4	0	1	0	1
359		5	max	0	32	-0.291	32	0	32	0	32	0	32	0	32	0	32
360			min	0	1	-2.669	4	0	1	0	1	0	1	0	1	0	1
361	F1_G26	1	max	0	32	1.901	8	0	32	0	32	0	32	0	32	0	32
362			min	0	1	0.232	21	0	1	0	1	0	1	0	1	0	1
363		2	max	0	32	0.964	8	0	32	5.527	8	-0.708	32	0	32	0	32
364			min	0	1	0.126	21	0	1	0.708	21	-5.527	4	0	1	0	1
365		3	max	0	32	0.002	1	0	32	7.38	8	-0.952	32	0	32	0	32
366			min	0	1	0.001	21	0	1	0.952	21	-7.38	4	0	1	0	1
367		4	max	0	32	-0.124	32	0	32	5.538	8	-0.716	32	0	32	0	32
368			min	0	1	-0.961	4	0	1	0.716	21	-5.538	4	0	1	0	1
369		5	max	0	32	-0.249	32	0	32	0	32	0	32	0	32	0	32
370			min	0	1	-1.924	4	0	1	0	1	0	1	0	1	0	1
371	F1_G29	1	max	0	5	1.146	8	0	32	0	32	0	32	0	32	0	32
372			min	-0.125	21	0.264	21	0	1	0	1	0	1	0	1	0	1
373		2	max	0	5	0.635	8	0	32	6.119	8	-1.389	32	0	32	0	32
374			min	-0.125	21	0.142	21	0	1	1.389	21	-6.119	4	0	1	0	1
375		3	max	0	5	0.05	8	0	32	8.498	8	-1.905	32	0	32	0	32
376			min	-0.125	21	0.008	21	0	1	1.905	21	-8.498	4	0	1	0	1
377		4	max	0	5	-0.138	32	0	32	6.628	8	-1.469	32	0	32	0	32
378			min	-0.125	21	-0.61	4	0	1	1.469	21	-6.628	4	0	1	0	1
379		5	max	0	5	-0.295	32	0	32	0	32	0	32	0	32	0	32
380			min	-0.125	21	-1.345	4	0	1	0	1	0	1	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
381	F1_G31	1	max	0	32	5.026	7	0	15	0	32	0	32	0	32	0	32
382			min	0	1	1.161	21	0	21	0	1	0	1	0	1	0	1
383		2	max	0	32	-0.062	23	0	32	29.292	5	-6.755	23	0	15	0	21
384			min	0	16	-0.379	5	0	1	6.755	23	-29.292	5	0	21	0	15
385		3	max	0	32	-0.22	23	0	32	24.131	5	-5.693	23	0	15	0	21
386			min	0	16	-0.99	5	0	1	5.693	23	-24.131	5	0	21	0	15
387		4	max	0	32	-0.378	23	0	32	14.367	5	-3.441	23	0	15	0	21
388			min	0	16	-1.6	5	0	1	3.441	23	-14.367	5	0	21	0	15
389		5	max	0	32	-0.535	23	0	32	0	32	0	32	0	32	0	32
390			min	0	16	-2.211	5	0	1	0	1	0	1	0	1	0	1
391	F1_G33	1	max	0.002	24	3.195	5	0	16	0	32	0	32	0	32	0	32
392			min	-0.002	14	0.727	23	0	22	0	1	0	1	0	1	0	1
393		2	max	0.002	24	3.071	5	0	16	21.438	5	-4.757	23	0	16	0	22
394			min	-0.002	14	0.663	23	0	22	4.757	23	-21.438	5	0	22	0	16
395		3	max	0	32	0	21	0	32	28.585	7	-6.343	21	0	22	0	16
396			min	0	1	0	7	0	1	6.343	21	-28.585	7	0	16	0	22
397		4	max	0.002	14	-0.663	21	0	22	21.439	7	-4.757	21	0	16	0	22
398			min	-0.002	24	-3.071	7	0	16	4.757	21	-21.439	7	0	22	0	16
399		5	max	0.002	14	-0.727	21	0	22	0	32	0	32	0	32	0	32
400			min	-0.002	24	-3.196	7	0	16	0	1	0	1	0	1	0	1
401	F1_G34	1	max	0.037	23	0.623	5	0	24	0	32	0	32	0	32	0	32
402			min	-0.051	13	0.137	23	0	6	0	1	0	1	0	1	0	1
403		2	max	0.037	23	0.576	5	0	24	1.595	5	-0.337	23	0	24	0.001	6
404			min	-0.051	13	0.116	23	0	6	0.337	23	-1.595	5	-0.001	6	0	24
405		3	max	0.037	23	0.529	5	0	24	3.066	5	-0.616	23	0	24	0.001	6
406			min	-0.051	13	0.094	23	0	6	0.616	23	-3.066	5	-0.001	6	0	24
407		4	max	0.037	23	0.482	5	0	24	4.413	5	-0.836	23	0	24	0.002	6
408			min	-0.051	13	0.072	23	0	6	0.836	23	-4.413	5	-0.002	6	0	24
409		5	max	0.327	13	-0.644	21	0.005	6	0	32	0	32	0	32	0	32
410			min	-0.235	23	-3.483	7	0	24	0	1	0	1	0	1	0	1
411	F1_G35	1	max	0.142	5	1.186	8	0	32	0	32	0	32	0	32	0	32
412			min	0.002	23	0.26	21	0	1	0	1	0	1	0	1	0	1
413		2	max	0.142	5	0.593	8	0	32	4.235	8	-0.928	32	0	32	0	32
414			min	0.002	23	0.13	21	0	1	0.928	21	-4.235	4	0	1	0	1
415		3	max	0.142	5	0	32	0	32	5.647	8	-1.238	32	0	32	0	32
416			min	0.002	23	0	1	0	1	1.238	21	-5.647	4	0	1	0	1
417		4	max	0.142	5	-0.13	32	0	32	4.235	8	-0.928	32	0	32	0	32
418			min	0.002	23	-0.593	4	0	1	0.928	21	-4.235	4	0	1	0	1
419		5	max	0.142	5	-0.26	32	0	32	0	32	0	32	0	32	0	32
420			min	0.002	23	-1.186	4	0	1	0	1	0	1	0	1	0	1
421	F1_G37	1	max	0	7	4.926	7	0	21	0	32	0	32	0	32	0	32
422			min	0	21	1.093	21	0	15	0	1	0	1	0	1	0	1
423		2	max	0.001	22	1.747	7	0	22	30.952	7	-6.75	21	0	16	0	22
424			min	-0.001	16	0.398	21	0	16	6.75	21	-30.952	7	0	22	0	16
425		3	max	0	16	-0.309	23	0	32	41.461	4	-9.021	23	0	22	0	16
426			min	0	22	-1.515	5	0	1	9.021	23	-41.461	4	0	16	0	22
427		4	max	0.001	20	-1.006	23	0	16	31.016	5	-6.751	23	0	22	0	16
428			min	-0.001	14	-4.716	5	0	22	6.751	23	-31.016	5	0	16	0	22
429		5	max	0.001	20	-1.065	23	0	16	0	32	0	32	0	32	0	32
430			min	-0.001	14	-4.795	5	0	22	0	1	0	1	0	1	0	1
431	F1_G38	1	max	0.001	16	4.887	7	0	16	0	32	0	32	0	32	0	32
432			min	-0.001	22	1.08	21	0	22	0	1	0	1	0	1	0	1
433		2	max	0.001	16	4.808	7	0	16	31.615	7	-6.849	21	0	16	0	22
434			min	-0.001	22	1.021	21	0	22	6.849	21	-31.615	7	0	22	0	16
435		3	max	0	32	1.546	7	0	32	42.268	7	-9.155	21	0	22	0	16
436			min	0	1	0.314	21	0	1	9.155	21	-42.268	7	0	16	0	22
437		4	max	0.001	22	-0.392	23	0	14	31.96	7	-6.918	21	0	14	0	24
438			min	-0.001	16	-1.716	5	0	20	6.918	21	-31.96	7	0	24	0	14

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
439		5	max	0.204	13	-1.345	23	0.012	6	0	32	0	32	0	32	0	32
440			min	-0.138	23	-6.355	5	0.001	24	0	1	0	1	0	1	0	1
441	F1_G39	1	max	0	32	3.043	8	0	32	0	32	0	32	0	32	0	32
442			min	0	1	0.623	21	0	1	0	1	0	1	0	1	0	1
443		2	max	0	32	1.578	8	0	32	20.967	8	-4.433	32	0	32	0	32
444			min	0	1	0.354	21	0	1	4.433	21	-20.967	4	0	1	0	1
445		3	max	0	32	0.132	1	0	32	28.64	8	-6.423	32	0	32	0	32
446			min	0	1	0.085	21	0	1	6.423	21	-28.64	4	0	1	0	1
447		4	max	0	32	-0.354	32	0	32	20.967	8	-4.433	32	0	32	0	32
448			min	0	1	-1.578	4	0	1	4.433	21	-20.967	4	0	1	0	1
449		5	max	0	32	-0.623	32	0	32	0	32	0	32	0	32	0	32
450			min	0	1	-3.043	4	0	1	0	1	0	1	0	1	0	1
451	F1_G40	1	max	0	13	3.09	5	0	32	0	32	0	32	0	32	0	32
452			min	0	23	0.633	23	0	1	0	1	0	1	0	1	0	1
453		2	max	0	13	1.603	5	0	32	21.622	5	-4.577	23	0	23	0	21
454			min	0	23	0.36	23	0	1	4.577	23	-21.622	5	0	21	0	23
455		3	max	0	13	-0.081	21	0	32	29.541	5	-6.637	23	0	23	0	21
456			min	0	23	-0.127	1	0	1	6.637	23	-29.541	5	0	21	0	23
457		4	max	0	13	-0.356	21	0	32	21.676	5	-4.618	23	0	23	0	21
458			min	0	23	-1.597	7	0	1	4.618	23	-21.676	5	0	21	0	23
459		5	max	0	23	-0.638	21	0	23	0	32	0	32	0	32	0	32
460			min	0	13	-3.096	7	0	13	0	1	0	1	0	1	0	1
461	F1_G41	1	max	0	32	3.043	8	0	32	0	32	0	32	0	32	0	32
462			min	0	1	0.623	21	0	1	0	1	0	1	0	1	0	1
463		2	max	0	32	1.578	8	0	32	20.967	8	-4.433	32	0	32	0	32
464			min	0	1	0.354	21	0	1	4.433	21	-20.967	4	0	1	0	1
465		3	max	0	32	0.132	1	0	32	28.64	8	-6.423	32	0	32	0	32
466			min	0	1	0.085	21	0	1	6.423	21	-28.64	4	0	1	0	1
467		4	max	0	32	-0.354	32	0	32	20.967	8	-4.433	32	0	32	0	32
468			min	0	1	-1.578	4	0	1	4.433	21	-20.967	4	0	1	0	1
469		5	max	0	32	-0.623	32	0	32	0	32	0	32	0	32	0	32
470			min	0	1	-3.043	4	0	1	0	1	0	1	0	1	0	1
471	F1_G42	1	max	0	14	3.498	7	0	32	0	32	0	32	0	32	0	32
472			min	0	24	1.215	21	0	1	0	1	0	1	0	1	0	1
473		2	max	0	15	1.749	7	0	32	19.37	7	-6.69	21	0	21	0	15
474			min	0	21	0.608	21	0	1	6.69	21	-19.37	7	0	15	0	21
475		3	max	0	21	0	7	0	32	25.826	7	-8.92	21	0	15	0	21
476			min	0	15	0	21	0	1	8.92	21	-25.826	7	0	21	0	15
477		4	max	0	21	-0.608	23	0	15	19.37	7	-6.69	21	0	15	0	21
478			min	0	15	-1.749	5	0	21	6.69	21	-19.37	7	0	21	0	15
479		5	max	0	24	-1.215	23	0	32	0	32	0	32	0	32	0	32
480			min	0	14	-3.498	5	0	1	0	1	0	1	0	1	0	1
481	F1_G43	1	max	0	14	3.498	7	0	32	0	32	0	32	0	32	0	32
482			min	0	24	1.215	21	0	1	0	1	0	1	0	1	0	1
483		2	max	0	14	1.749	7	0	32	19.37	5	-6.69	23	0	24	0	14
484			min	0	24	0.608	21	0	1	6.69	23	-19.37	5	0	14	0	24
485		3	max	0	15	0	23	0	32	25.826	5	-8.92	23	0	32	0	32
486			min	0	13	0	5	0	1	8.92	23	-25.826	5	0	1	0	1
487		4	max	0	20	-0.608	23	0	32	19.37	5	-6.69	23	0	14	0	24
488			min	0	14	-1.749	5	0	1	6.69	23	-19.37	5	0	24	0	14
489		5	max	0	24	-1.215	23	0	32	0	32	0	32	0	32	0	32
490			min	0	14	-3.498	5	0	1	0	1	0	1	0	1	0	1
491	F1_G44	1	max	0	14	3.498	5	0	32	0	32	0	32	0	32	0	32
492			min	0	24	1.215	23	0	1	0	1	0	1	0	1	0	1
493		2	max	0	32	1.749	5	0	32	19.37	5	-6.69	23	0	21	0	15
494			min	0	1	0.608	23	0	1	6.69	23	-19.37	5	0	15	0	21
495		3	max	0	32	0	5	0	32	25.826	5	-8.92	23	0	32	0	32
496			min	0	1	0	23	0	1	8.92	23	-25.826	5	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
497		4	max	0	32	-0.608	21	0	32	19.37	7	-6.69	21	0	15	0	21
498			min	0	1	-1.749	7	0	1	6.69	21	-19.37	7	0	21	0	15
499		5	max	0	24	-1.215	21	0	32	0	32	0	32	0	32	0	32
500			min	0	14	-3.498	7	0	1	0	1	0	1	0	1	0	1
501	F1_G45	1	max	0	14	3.498	5	0	32	0	32	0	32	0	32	0	32
502			min	0	24	1.215	23	0	1	0	1	0	1	0	1	0	1
503		2	max	0	32	1.749	5	0	32	19.369	5	-6.69	23	0	19	0	13
504			min	0	1	0.608	23	0	1	6.69	23	-19.369	5	0	13	0	19
505		3	max	0	32	0	21	0	32	25.826	5	-8.92	23	0	21	0	15
506			min	0	1	0	7	0	1	8.92	23	-25.826	5	0	15	0	21
507		4	max	0	32	-0.608	21	0	32	19.369	5	-6.69	23	0	13	0	15
508			min	0	1	-1.749	7	0	1	6.69	23	-19.369	5	0	15	0	13
509		5	max	0	24	-1.215	21	0	32	0	32	0	32	0	32	0	32
510			min	0	14	-3.498	7	0	1	0	1	0	1	0	1	0	1
511	F1_G46	1	max	0	32	1.64	8	0	32	0	32	0	32	0	32	0	32
512			min	0	1	0.55	21	0	1	0	1	0	1	0	1	0	1
513		2	max	0	32	0.82	8	0	32	16.298	8	-5.461	32	0	32	0	32
514			min	0	1	0.275	21	0	1	5.461	21	-16.298	4	0	1	0	1
515		3	max	0	32	0	32	0	32	21.731	8	-7.282	32	0	32	0	32
516			min	0	1	0	1	0	1	7.282	21	-21.731	4	0	1	0	1
517		4	max	0	32	-0.275	32	0	32	16.298	8	-5.461	32	0	32	0	32
518			min	0	1	-0.82	4	0	1	5.461	21	-16.298	4	0	1	0	1
519		5	max	0	32	-0.55	32	0	32	0	32	0	32	0	32	0	32
520			min	0	1	-1.64	4	0	1	0	1	0	1	0	1	0	1
521	F1_G47	1	max	0	32	1.665	8	0	32	0	32	0	32	0	32	0	32
522			min	0	1	0.558	21	0	1	0	1	0	1	0	1	0	1
523		2	max	0	32	0.833	8	0	32	16.798	8	-5.629	32	0	32	0	32
524			min	0	1	0.279	21	0	1	5.629	21	-16.798	4	0	1	0	1
525		3	max	0	32	0	32	0	32	22.398	8	-7.505	32	0	32	0	32
526			min	0	1	0	1	0	1	7.505	21	-22.398	4	0	1	0	1
527		4	max	0	32	-0.279	32	0	32	16.798	8	-5.629	32	0	32	0	32
528			min	0	1	-0.833	4	0	1	5.629	21	-16.798	4	0	1	0	1
529		5	max	0	32	-0.558	32	0	32	0	32	0	32	0	32	0	32
530			min	0	1	-1.665	4	0	1	0	1	0	1	0	1	0	1
531	F1_G48	1	max	0	32	1.64	8	0	32	0	32	0	32	0	32	0	32
532			min	0	1	0.55	21	0	1	0	1	0	1	0	1	0	1
533		2	max	0	32	0.82	8	0	32	16.298	8	-5.461	32	0	32	0	32
534			min	0	1	0.275	21	0	1	5.461	21	-16.298	4	0	1	0	1
535		3	max	0	32	0	32	0	32	21.731	8	-7.282	32	0	32	0	32
536			min	0	1	0	1	0	1	7.282	21	-21.731	4	0	1	0	1
537		4	max	0	32	-0.275	32	0	32	16.298	8	-5.461	32	0	32	0	32
538			min	0	1	-0.82	4	0	1	5.461	21	-16.298	4	0	1	0	1
539		5	max	0	32	-0.55	32	0	32	0	32	0	32	0	32	0	32
540			min	0	1	-1.64	4	0	1	0	1	0	1	0	1	0	1
541	F1_G49	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
542			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
543		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
544			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
545		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
546			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
547		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
548			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
549		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
550			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
551	F1_G50	1	max	0	32	1.68	8	0	32	0	32	0	32	0	32	0	32
552			min	0	1	0.562	21	0	1	0	1	0	1	0	1	0	1
553		2	max	0	32	0.84	8	0	32	16.948	8	-5.674	32	0	32	0	32
554			min	0	1	0.281	21	0	1	5.674	21	-16.948	4	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
555		3	max	0	32	0	32	0	32	22.597	8	-7.565	32	0	32	0	32
556			min	0	1	0	1	0	1	7.565	21	-22.597	4	0	1	0	1
557		4	max	0	32	-0.281	32	0	32	16.948	8	-5.674	32	0	32	0	32
558			min	0	1	-0.84	4	0	1	5.674	21	-16.948	4	0	1	0	1
559		5	max	0	32	-0.562	32	0	32	0	32	0	32	0	32	0	32
560			min	0	1	-1.68	4	0	1	0	1	0	1	0	1	0	1
561	F1_G51	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
562			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
563		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
564			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
565		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
566			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
567		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
568			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
569		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
570			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
571	F1_G52	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
572			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
573		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
574			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
575		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
576			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
577		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
578			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
579		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
580			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
581	F1_G53	1	max	0	32	1.68	8	0	32	0	32	0	32	0	32	0	32
582			min	0	1	0.562	21	0	1	0	1	0	1	0	1	0	1
583		2	max	0	32	0.84	8	0	32	16.948	8	-5.674	32	0	32	0	32
584			min	0	1	0.281	21	0	1	5.674	21	-16.948	4	0	1	0	1
585		3	max	0	32	0	32	0	32	22.597	8	-7.565	32	0	32	0	32
586			min	0	1	0	1	0	1	7.565	21	-22.597	4	0	1	0	1
587		4	max	0	32	-0.281	32	0	32	16.948	8	-5.674	32	0	32	0	32
588			min	0	1	-0.84	4	0	1	5.674	21	-16.948	4	0	1	0	1
589		5	max	0	32	-0.562	32	0	32	0	32	0	32	0	32	0	32
590			min	0	1	-1.68	4	0	1	0	1	0	1	0	1	0	1
591	F1_G54	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
592			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
593		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
594			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
595		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
596			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
597		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
598			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
599		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
600			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
601	F1_G55	1	max	0	32	1.64	8	0	32	0	32	0	32	0	32	0	32
602			min	0	1	0.55	21	0	1	0	1	0	1	0	1	0	1
603		2	max	0	32	0.82	8	0	32	16.298	8	-5.461	32	0	32	0	32
604			min	0	1	0.275	21	0	1	5.461	21	-16.298	4	0	1	0	1
605		3	max	0	32	0	32	0	32	21.731	8	-7.282	32	0	32	0	32
606			min	0	1	0	1	0	1	7.282	21	-21.731	4	0	1	0	1
607		4	max	0	32	-0.275	32	0	32	16.298	8	-5.461	32	0	32	0	32
608			min	0	1	-0.82	4	0	1	5.461	21	-16.298	4	0	1	0	1
609		5	max	0	32	-0.55	32	0	32	0	32	0	32	0	32	0	32
610			min	0	1	-1.64	4	0	1	0	1	0	1	0	1	0	1
611	F1_G56	1	max	0	32	1.665	8	0	32	0	32	0	32	0	32	0	32
612			min	0	1	0.558	21	0	1	0	1	0	1	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
613		2	max	0	32	0.833	8	0	32	16.798	8	-5.629	32	0	32	0	32
614			min	0	1	0.279	21	0	1	5.629	21	-16.798	4	0	1	0	1
615		3	max	0	32	0	32	0	32	22.398	8	-7.505	32	0	32	0	32
616			min	0	1	0	1	0	1	7.505	21	-22.398	4	0	1	0	1
617		4	max	0	32	-0.279	32	0	32	16.798	8	-5.629	32	0	32	0	32
618			min	0	1	-0.833	4	0	1	5.629	21	-16.798	4	0	1	0	1
619		5	max	0	32	-0.558	32	0	32	0	32	0	32	0	32	0	32
620			min	0	1	-1.665	4	0	1	0	1	0	1	0	1	0	1
621	F1_G57	1	max	0	32	1.64	8	0	32	0	32	0	32	0	32	0	32
622			min	0	1	0.55	21	0	1	0	1	0	1	0	1	0	1
623		2	max	0	32	0.82	8	0	32	16.298	8	-5.461	32	0	32	0	32
624			min	0	1	0.275	21	0	1	5.461	21	-16.298	4	0	1	0	1
625		3	max	0	32	0	32	0	32	21.731	8	-7.282	32	0	32	0	32
626			min	0	1	0	1	0	1	7.282	21	-21.731	4	0	1	0	1
627		4	max	0	32	-0.275	32	0	32	16.298	8	-5.461	32	0	32	0	32
628			min	0	1	-0.82	4	0	1	5.461	21	-16.298	4	0	1	0	1
629		5	max	0	32	-0.55	32	0	32	0	32	0	32	0	32	0	32
630			min	0	1	-1.64	4	0	1	0	1	0	1	0	1	0	1
631	F1_J54	1	max	0	32	1.626	8	0	32	0	32	0	32	0	32	0	32
632			min	0	1	0.545	21	0	1	0	1	0	1	0	1	0	1
633		2	max	0	32	0.813	8	0	32	16.153	8	-5.418	32	0	32	0	32
634			min	0	1	0.273	21	0	1	5.418	21	-16.153	4	0	1	0	1
635		3	max	0	32	0	32	0	32	21.538	8	-7.224	32	0	32	0	32
636			min	0	1	0	1	0	1	7.224	21	-21.538	4	0	1	0	1
637		4	max	0	32	-0.273	32	0	32	16.153	8	-5.418	32	0	32	0	32
638			min	0	1	-0.813	4	0	1	5.418	21	-16.153	4	0	1	0	1
639		5	max	0	32	-0.545	32	0	32	0	32	0	32	0	32	0	32
640			min	0	1	-1.626	4	0	1	0	1	0	1	0	1	0	1
641	F1_J55	1	max	0	32	1.626	8	0	32	0	32	0	32	0	32	0	32
642			min	0	1	0.545	21	0	1	0	1	0	1	0	1	0	1
643		2	max	0	32	0.813	8	0	32	16.153	8	-5.418	32	0	32	0	32
644			min	0	1	0.273	21	0	1	5.418	21	-16.153	4	0	1	0	1
645		3	max	0	32	0	32	0	32	21.538	8	-7.224	32	0	32	0	32
646			min	0	1	0	1	0	1	7.224	21	-21.538	4	0	1	0	1
647		4	max	0	32	-0.273	32	0	32	16.153	8	-5.418	32	0	32	0	32
648			min	0	1	-0.813	4	0	1	5.418	21	-16.153	4	0	1	0	1
649		5	max	0	32	-0.545	32	0	32	0	32	0	32	0	32	0	32
650			min	0	1	-1.626	4	0	1	0	1	0	1	0	1	0	1
651	F1_J56	1	max	0	32	1.626	8	0	32	0	32	0	32	0	32	0	32
652			min	0	1	0.545	21	0	1	0	1	0	1	0	1	0	1
653		2	max	0	32	0.813	8	0	32	16.153	8	-5.418	32	0	32	0	32
654			min	0	1	0.273	21	0	1	5.418	21	-16.153	4	0	1	0	1
655		3	max	0	32	0	32	0	32	21.538	8	-7.224	32	0	32	0	32
656			min	0	1	0	1	0	1	7.224	21	-21.538	4	0	1	0	1
657		4	max	0	32	-0.273	32	0	32	16.153	8	-5.418	32	0	32	0	32
658			min	0	1	-0.813	4	0	1	5.418	21	-16.153	4	0	1	0	1
659		5	max	0	32	-0.545	32	0	32	0	32	0	32	0	32	0	32
660			min	0	1	-1.626	4	0	1	0	1	0	1	0	1	0	1
661	F1_J57	1	max	0	32	1.626	8	0	32	0	32	0	32	0	32	0	32
662			min	0	1	0.545	21	0	1	0	1	0	1	0	1	0	1
663		2	max	0	32	0.813	8	0	32	16.153	8	-5.418	32	0	32	0	32
664			min	0	1	0.273	21	0	1	5.418	21	-16.153	4	0	1	0	1
665		3	max	0	32	0	32	0	32	21.538	8	-7.224	32	0	32	0	32
666			min	0	1	0	1	0	1	7.224	21	-21.538	4	0	1	0	1
667		4	max	0	32	-0.273	32	0	32	16.153	8	-5.418	32	0	32	0	32
668			min	0	1	-0.813	4	0	1	5.418	21	-16.153	4	0	1	0	1
669		5	max	0	32	-0.545	32	0	32	0	32	0	32	0	32	0	32
670			min	0	1	-1.626	4	0	1	0	1	0	1	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
671	F1_J58	1	max	0	32	1.626	8	0	32	0	32	0	32	0	32	0	32
672			min	0	1	0.545	21	0	1	0	1	0	1	0	1	0	1
673		2	max	0	32	0.813	8	0	32	16.153	8	-5.418	32	0	32	0	32
674			min	0	1	0.273	21	0	1	5.418	21	-16.153	4	0	1	0	1
675		3	max	0	32	0	32	0	32	21.538	8	-7.224	32	0	32	0	32
676			min	0	1	0	1	0	1	7.224	21	-21.538	4	0	1	0	1
677		4	max	0	32	-0.273	32	0	32	16.153	8	-5.418	32	0	32	0	32
678			min	0	1	-0.813	4	0	1	5.418	21	-16.153	4	0	1	0	1
679		5	max	0	32	-0.545	32	0	32	0	32	0	32	0	32	0	32
680			min	0	1	-1.626	4	0	1	0	1	0	1	0	1	0	1
681	F1_J59	1	max	0	32	1.626	8	0	32	0	32	0	32	0	32	0	32
682			min	0	1	0.545	21	0	1	0	1	0	1	0	1	0	1
683		2	max	0	32	0.813	8	0	32	16.153	8	-5.418	32	0	32	0	32
684			min	0	1	0.273	21	0	1	5.418	21	-16.153	4	0	1	0	1
685		3	max	0	32	0	32	0	32	21.538	8	-7.224	32	0	32	0	32
686			min	0	1	0	1	0	1	7.224	21	-21.538	4	0	1	0	1
687		4	max	0	32	-0.273	32	0	32	16.153	8	-5.418	32	0	32	0	32
688			min	0	1	-0.813	4	0	1	5.418	21	-16.153	4	0	1	0	1
689		5	max	0	32	-0.545	32	0	32	0	32	0	32	0	32	0	32
690			min	0	1	-1.626	4	0	1	0	1	0	1	0	1	0	1
691	F1_J60	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
692			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
693		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
694			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
695		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
696			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
697		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
698			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
699		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
700			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
701	F1_J61	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
702			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
703		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
704			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
705		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
706			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
707		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
708			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
709		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
710			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
711	F1_J62	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
712			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
713		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
714			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
715		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
716			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
717		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
718			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
719		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
720			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
721	F1_J63	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
722			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
723		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
724			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
725		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
726			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
727		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
728			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
729		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
730			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
731	F1_J64	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
732			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
733		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
734			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
735		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
736			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
737		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
738			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
739		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
740			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
741	F1_J65	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
742			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
743		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
744			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
745		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
746			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
747		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
748			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
749		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
750			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
751	F1_J66	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
752			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
753		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
754			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
755		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
756			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
757		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
758			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
759		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
760			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
761	F1_J67	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
762			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
763		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
764			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
765		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
766			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
767		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
768			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
769		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
770			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
771	F1_J68	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
772			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
773		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
774			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
775		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
776			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
777		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
778			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
779		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
780			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
781	F1_J69	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
782			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
783		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
784			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
785		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
786			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
787		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
788			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
789		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
790			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
791	F1_J70	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
792			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
793		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
794			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
795		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
796			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
797		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
798			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
799		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
800			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
801	F1_J71	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
802			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
803		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
804			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
805		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
806			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
807		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
808			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
809		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
810			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
811	F1_J72	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
812			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
813		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
814			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
815		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
816			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
817		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
818			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
819		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
820			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
821	F1_J73	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
822			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
823		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
824			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
825		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
826			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
827		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
828			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
829		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
830			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
831	F1_J74	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
832			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
833		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
834			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
835		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
836			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
837		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
838			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
839		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
840			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
841	F1_J75	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
842			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
843		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
844			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
845		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
846			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
847		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
848			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
849		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
850			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
851	F1_J76	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
852			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
853		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
854			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
855		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
856			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
857		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
858			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
859		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
860			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
861	F1_J77	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
862			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
863		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
864			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
865		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
866			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
867		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
868			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
869		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
870			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
871	F1_J78	1	max	0	32	1.626	8	0	32	0	32	0	32	0	32	0	32
872			min	0	1	0.545	21	0	1	0	1	0	1	0	1	0	1
873		2	max	0	32	0.813	8	0	32	16.153	8	-5.418	32	0	32	0	32
874			min	0	1	0.273	21	0	1	5.418	21	-16.153	4	0	1	0	1
875		3	max	0	32	0	32	0	32	21.538	8	-7.224	32	0	32	0	32
876			min	0	1	0	1	0	1	7.224	21	-21.538	4	0	1	0	1
877		4	max	0	32	-0.273	32	0	32	16.153	8	-5.418	32	0	32	0	32
878			min	0	1	-0.813	4	0	1	5.418	21	-16.153	4	0	1	0	1
879		5	max	0	32	-0.545	32	0	32	0	32	0	32	0	32	0	32
880			min	0	1	-1.626	4	0	1	0	1	0	1	0	1	0	1
881	F1_J79	1	max	0	32	1.626	8	0	32	0	32	0	32	0	32	0	32
882			min	0	1	0.545	21	0	1	0	1	0	1	0	1	0	1
883		2	max	0	32	0.813	8	0	32	16.153	8	-5.418	32	0	32	0	32
884			min	0	1	0.273	21	0	1	5.418	21	-16.153	4	0	1	0	1
885		3	max	0	32	0	32	0	32	21.538	8	-7.224	32	0	32	0	32
886			min	0	1	0	1	0	1	7.224	21	-21.538	4	0	1	0	1
887		4	max	0	32	-0.273	32	0	32	16.153	8	-5.418	32	0	32	0	32
888			min	0	1	-0.813	4	0	1	5.418	21	-16.153	4	0	1	0	1
889		5	max	0	32	-0.545	32	0	32	0	32	0	32	0	32	0	32
890			min	0	1	-1.626	4	0	1	0	1	0	1	0	1	0	1
891	F1_J80	1	max	0	32	1.626	8	0	32	0	32	0	32	0	32	0	32
892			min	0	1	0.545	21	0	1	0	1	0	1	0	1	0	1
893		2	max	0	32	0.813	8	0	32	16.153	8	-5.418	32	0	32	0	32
894			min	0	1	0.273	21	0	1	5.418	21	-16.153	4	0	1	0	1
895		3	max	0	32	0	32	0	32	21.538	8	-7.224	32	0	32	0	32
896			min	0	1	0	1	0	1	7.224	21	-21.538	4	0	1	0	1
897		4	max	0	32	-0.273	32	0	32	16.153	8	-5.418	32	0	32	0	32
898			min	0	1	-0.813	4	0	1	5.418	21	-16.153	4	0	1	0	1
899		5	max	0	32	-0.545	32	0	32	0	32	0	32	0	32	0	32
900			min	0	1	-1.626	4	0	1	0	1	0	1	0	1	0	1
901	F1_J81	1	max	0	32	1.626	8	0	32	0	32	0	32	0	32	0	32
902			min	0	1	0.545	21	0	1	0	1	0	1	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
903		2	max	0	32	0.813	8	0	32	16.153	8	-5.418	32	0	32	0	32
904			min	0	1	0.273	21	0	1	5.418	21	-16.153	4	0	1	0	1
905		3	max	0	32	0	32	0	32	21.538	8	-7.224	32	0	32	0	32
906			min	0	1	0	1	0	1	7.224	21	-21.538	4	0	1	0	1
907		4	max	0	32	-0.273	32	0	32	16.153	8	-5.418	32	0	32	0	32
908			min	0	1	-0.813	4	0	1	5.418	21	-16.153	4	0	1	0	1
909		5	max	0	32	-0.545	32	0	32	0	32	0	32	0	32	0	32
910			min	0	1	-1.626	4	0	1	0	1	0	1	0	1	0	1
911	F1_J82	1	max	0	32	1.626	8	0	32	0	32	0	32	0	32	0	32
912			min	0	1	0.545	21	0	1	0	1	0	1	0	1	0	1
913		2	max	0	32	0.813	8	0	32	16.153	8	-5.418	32	0	32	0	32
914			min	0	1	0.273	21	0	1	5.418	21	-16.153	4	0	1	0	1
915		3	max	0	32	0	32	0	32	21.538	8	-7.224	32	0	32	0	32
916			min	0	1	0	1	0	1	7.224	21	-21.538	4	0	1	0	1
917		4	max	0	32	-0.273	32	0	32	16.153	8	-5.418	32	0	32	0	32
918			min	0	1	-0.813	4	0	1	5.418	21	-16.153	4	0	1	0	1
919		5	max	0	32	-0.545	32	0	32	0	32	0	32	0	32	0	32
920			min	0	1	-1.626	4	0	1	0	1	0	1	0	1	0	1
921	F1_J83	1	max	0	32	1.626	8	0	32	0	32	0	32	0	32	0	32
922			min	0	1	0.545	21	0	1	0	1	0	1	0	1	0	1
923		2	max	0	32	0.813	8	0	32	16.153	8	-5.418	32	0	32	0	32
924			min	0	1	0.273	21	0	1	5.418	21	-16.153	4	0	1	0	1
925		3	max	0	32	0	32	0	32	21.538	8	-7.224	32	0	32	0	32
926			min	0	1	0	1	0	1	7.224	21	-21.538	4	0	1	0	1
927		4	max	0	32	-0.273	32	0	32	16.153	8	-5.418	32	0	32	0	32
928			min	0	1	-0.813	4	0	1	5.418	21	-16.153	4	0	1	0	1
929		5	max	0	32	-0.545	32	0	32	0	32	0	32	0	32	0	32
930			min	0	1	-1.626	4	0	1	0	1	0	1	0	1	0	1
931	F1_J84	1	max	0	32	1.65	8	0	32	0	32	0	32	0	32	0	32
932			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
933		2	max	0	32	0.825	8	0	32	16.649	8	-5.584	32	0	32	0	32
934			min	0	1	0.277	21	0	1	5.584	21	-16.649	4	0	1	0	1
935		3	max	0	32	0	32	0	32	22.199	8	-7.446	32	0	32	0	32
936			min	0	1	0	1	0	1	7.446	21	-22.199	4	0	1	0	1
937		4	max	0	32	-0.277	32	0	32	16.649	8	-5.584	32	0	32	0	32
938			min	0	1	-0.825	4	0	1	5.584	21	-16.649	4	0	1	0	1
939		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
940			min	0	1	-1.65	4	0	1	0	1	0	1	0	1	0	1
941	F1_J85	1	max	0	32	1.65	8	0	32	0	32	0	32	0	32	0	32
942			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
943		2	max	0	32	0.825	8	0	32	16.649	8	-5.584	32	0	32	0	32
944			min	0	1	0.277	21	0	1	5.584	21	-16.649	4	0	1	0	1
945		3	max	0	32	0	32	0	32	22.199	8	-7.446	32	0	32	0	32
946			min	0	1	0	1	0	1	7.446	21	-22.199	4	0	1	0	1
947		4	max	0	32	-0.277	32	0	32	16.649	8	-5.584	32	0	32	0	32
948			min	0	1	-0.825	4	0	1	5.584	21	-16.649	4	0	1	0	1
949		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
950			min	0	1	-1.65	4	0	1	0	1	0	1	0	1	0	1
951	F1_J86	1	max	0	32	1.65	8	0	32	0	32	0	32	0	32	0	32
952			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
953		2	max	0	32	0.825	8	0	32	16.649	8	-5.584	32	0	32	0	32
954			min	0	1	0.277	21	0	1	5.584	21	-16.649	4	0	1	0	1
955		3	max	0	32	0	32	0	32	22.199	8	-7.446	32	0	32	0	32
956			min	0	1	0	1	0	1	7.446	21	-22.199	4	0	1	0	1
957		4	max	0	32	-0.277	32	0	32	16.649	8	-5.584	32	0	32	0	32
958			min	0	1	-0.825	4	0	1	5.584	21	-16.649	4	0	1	0	1
959		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
960			min	0	1	-1.65	4	0	1	0	1	0	1	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
961	F1_J87	1	max	0	32	1.65	8	0	32	0	32	0	32	0	32	0	32
962			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
963		2	max	0	32	0.825	8	0	32	16.649	8	-5.584	32	0	32	0	32
964			min	0	1	0.277	21	0	1	5.584	21	-16.649	4	0	1	0	1
965		3	max	0	32	0	32	0	32	22.199	8	-7.446	32	0	32	0	32
966			min	0	1	0	1	0	1	7.446	21	-22.199	4	0	1	0	1
967		4	max	0	32	-0.277	32	0	32	16.649	8	-5.584	32	0	32	0	32
968			min	0	1	-0.825	4	0	1	5.584	21	-16.649	4	0	1	0	1
969		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
970			min	0	1	-1.65	4	0	1	0	1	0	1	0	1	0	1
971	F1_J88	1	max	0	32	1.65	8	0	32	0	32	0	32	0	32	0	32
972			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
973		2	max	0	32	0.825	8	0	32	16.649	8	-5.584	32	0	32	0	32
974			min	0	1	0.277	21	0	1	5.584	21	-16.649	4	0	1	0	1
975		3	max	0	32	0	32	0	32	22.199	8	-7.446	32	0	32	0	32
976			min	0	1	0	1	0	1	7.446	21	-22.199	4	0	1	0	1
977		4	max	0	32	-0.277	32	0	32	16.649	8	-5.584	32	0	32	0	32
978			min	0	1	-0.825	4	0	1	5.584	21	-16.649	4	0	1	0	1
979		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
980			min	0	1	-1.65	4	0	1	0	1	0	1	0	1	0	1
981	F1_J89	1	max	0	32	1.65	8	0	32	0	32	0	32	0	32	0	32
982			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
983		2	max	0	32	0.825	8	0	32	16.649	8	-5.584	32	0	32	0	32
984			min	0	1	0.277	21	0	1	5.584	21	-16.649	4	0	1	0	1
985		3	max	0	32	0	32	0	32	22.199	8	-7.446	32	0	32	0	32
986			min	0	1	0	1	0	1	7.446	21	-22.199	4	0	1	0	1
987		4	max	0	32	-0.277	32	0	32	16.649	8	-5.584	32	0	32	0	32
988			min	0	1	-0.825	4	0	1	5.584	21	-16.649	4	0	1	0	1
989		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
990			min	0	1	-1.65	4	0	1	0	1	0	1	0	1	0	1
991	F1_J90	1	max	0	32	1.68	8	0	32	0	32	0	32	0	32	0	32
992			min	0	1	0.562	21	0	1	0	1	0	1	0	1	0	1
993		2	max	0	32	0.84	8	0	32	16.948	8	-5.674	32	0	32	0	32
994			min	0	1	0.281	21	0	1	5.674	21	-16.948	4	0	1	0	1
995		3	max	0	32	0	32	0	32	22.597	8	-7.565	32	0	32	0	32
996			min	0	1	0	1	0	1	7.565	21	-22.597	4	0	1	0	1
997		4	max	0	32	-0.281	32	0	32	16.948	8	-5.674	32	0	32	0	32
998			min	0	1	-0.84	4	0	1	5.674	21	-16.948	4	0	1	0	1
999		5	max	0	32	-0.562	32	0	32	0	32	0	32	0	32	0	32
1000			min	0	1	-1.68	4	0	1	0	1	0	1	0	1	0	1
1001	F1_J91	1	max	0	32	1.68	8	0	32	0	32	0	32	0	32	0	32
1002			min	0	1	0.562	21	0	1	0	1	0	1	0	1	0	1
1003		2	max	0	32	0.84	8	0	32	16.948	8	-5.674	32	0	32	0	32
1004			min	0	1	0.281	21	0	1	5.674	21	-16.948	4	0	1	0	1
1005		3	max	0	32	0	32	0	32	22.597	8	-7.565	32	0	32	0	32
1006			min	0	1	0	1	0	1	7.565	21	-22.597	4	0	1	0	1
1007		4	max	0	32	-0.281	32	0	32	16.948	8	-5.674	32	0	32	0	32
1008			min	0	1	-0.84	4	0	1	5.674	21	-16.948	4	0	1	0	1
1009		5	max	0	32	-0.562	32	0	32	0	32	0	32	0	32	0	32
1010			min	0	1	-1.68	4	0	1	0	1	0	1	0	1	0	1
1011	F1_J92	1	max	0	32	1.68	8	0	32	0	32	0	32	0	32	0	32
1012			min	0	1	0.562	21	0	1	0	1	0	1	0	1	0	1
1013		2	max	0	32	0.84	8	0	32	16.948	8	-5.674	32	0	32	0	32
1014			min	0	1	0.281	21	0	1	5.674	21	-16.948	4	0	1	0	1
1015		3	max	0	32	0	32	0	32	22.597	8	-7.565	32	0	32	0	32
1016			min	0	1	0	1	0	1	7.565	21	-22.597	4	0	1	0	1
1017		4	max	0	32	-0.281	32	0	32	16.948	8	-5.674	32	0	32	0	32
1018			min	0	1	-0.84	4	0	1	5.674	21	-16.948	4	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
1019		5	max	0	32	-0.562	32	0	32	0	32	0	32	0	32	0	32
1020			min	0	1	-1.68	4	0	1	0	1	0	1	0	1	0	1
1021	F1_J93	1	max	0	32	1.68	8	0	32	0	32	0	32	0	32	0	32
1022			min	0	1	0.562	21	0	1	0	1	0	1	0	1	0	1
1023		2	max	0	32	0.84	8	0	32	16.948	8	-5.674	32	0	32	0	32
1024			min	0	1	0.281	21	0	1	5.674	21	-16.948	4	0	1	0	1
1025		3	max	0	32	0	32	0	32	22.597	8	-7.565	32	0	32	0	32
1026			min	0	1	0	1	0	1	7.565	21	-22.597	4	0	1	0	1
1027		4	max	0	32	-0.281	32	0	32	16.948	8	-5.674	32	0	32	0	32
1028			min	0	1	-0.84	4	0	1	5.674	21	-16.948	4	0	1	0	1
1029		5	max	0	32	-0.562	32	0	32	0	32	0	32	0	32	0	32
1030			min	0	1	-1.68	4	0	1	0	1	0	1	0	1	0	1
1031	F1_J94	1	max	0	32	1.68	8	0	32	0	32	0	32	0	32	0	32
1032			min	0	1	0.562	21	0	1	0	1	0	1	0	1	0	1
1033		2	max	0	32	0.84	8	0	32	16.948	8	-5.674	32	0	32	0	32
1034			min	0	1	0.281	21	0	1	5.674	21	-16.948	4	0	1	0	1
1035		3	max	0	32	0	32	0	32	22.597	8	-7.565	32	0	32	0	32
1036			min	0	1	0	1	0	1	7.565	21	-22.597	4	0	1	0	1
1037		4	max	0	32	-0.281	32	0	32	16.948	8	-5.674	32	0	32	0	32
1038			min	0	1	-0.84	4	0	1	5.674	21	-16.948	4	0	1	0	1
1039		5	max	0	32	-0.562	32	0	32	0	32	0	32	0	32	0	32
1040			min	0	1	-1.68	4	0	1	0	1	0	1	0	1	0	1
1041	F1_J95	1	max	0	32	1.68	8	0	32	0	32	0	32	0	32	0	32
1042			min	0	1	0.562	21	0	1	0	1	0	1	0	1	0	1
1043		2	max	0	32	0.84	8	0	32	16.948	8	-5.674	32	0	32	0	32
1044			min	0	1	0.281	21	0	1	5.674	21	-16.948	4	0	1	0	1
1045		3	max	0	32	0	32	0	32	22.597	8	-7.565	32	0	32	0	32
1046			min	0	1	0	1	0	1	7.565	21	-22.597	4	0	1	0	1
1047		4	max	0	32	-0.281	32	0	32	16.948	8	-5.674	32	0	32	0	32
1048			min	0	1	-0.84	4	0	1	5.674	21	-16.948	4	0	1	0	1
1049		5	max	0	32	-0.562	32	0	32	0	32	0	32	0	32	0	32
1050			min	0	1	-1.68	4	0	1	0	1	0	1	0	1	0	1
1051	F1_J96	1	max	0	32	1.68	8	0	32	0	32	0	32	0	32	0	32
1052			min	0	1	0.562	21	0	1	0	1	0	1	0	1	0	1
1053		2	max	0	32	0.84	8	0	32	16.948	8	-5.674	32	0	32	0	32
1054			min	0	1	0.281	21	0	1	5.674	21	-16.948	4	0	1	0	1
1055		3	max	0	32	0	32	0	32	22.597	8	-7.565	32	0	32	0	32
1056			min	0	1	0	1	0	1	7.565	21	-22.597	4	0	1	0	1
1057		4	max	0	32	-0.281	32	0	32	16.948	8	-5.674	32	0	32	0	32
1058			min	0	1	-0.84	4	0	1	5.674	21	-16.948	4	0	1	0	1
1059		5	max	0	32	-0.562	32	0	32	0	32	0	32	0	32	0	32
1060			min	0	1	-1.68	4	0	1	0	1	0	1	0	1	0	1
1061	F1_J97	1	max	0	32	1.68	8	0	32	0	32	0	32	0	32	0	32
1062			min	0	1	0.562	21	0	1	0	1	0	1	0	1	0	1
1063		2	max	0	32	0.84	8	0	32	16.948	8	-5.674	32	0	32	0	32
1064			min	0	1	0.281	21	0	1	5.674	21	-16.948	4	0	1	0	1
1065		3	max	0	32	0	32	0	32	22.597	8	-7.565	32	0	32	0	32
1066			min	0	1	0	1	0	1	7.565	21	-22.597	4	0	1	0	1
1067		4	max	0	32	-0.281	32	0	32	16.948	8	-5.674	32	0	32	0	32
1068			min	0	1	-0.84	4	0	1	5.674	21	-16.948	4	0	1	0	1
1069		5	max	0	32	-0.562	32	0	32	0	32	0	32	0	32	0	32
1070			min	0	1	-1.68	4	0	1	0	1	0	1	0	1	0	1
1071	F1_J98	1	max	0	32	1.68	8	0	32	0	32	0	32	0	32	0	32
1072			min	0	1	0.562	21	0	1	0	1	0	1	0	1	0	1
1073		2	max	0	32	0.84	8	0	32	16.948	8	-5.674	32	0	32	0	32
1074			min	0	1	0.281	21	0	1	5.674	21	-16.948	4	0	1	0	1
1075		3	max	0	32	0	32	0	32	22.597	8	-7.565	32	0	32	0	32
1076			min	0	1	0	1	0	1	7.565	21	-22.597	4	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
1077		4	max	0	32	-0.281	32	0	32	16.948	8	-5.674	32	0	32	0	32
1078			min	0	1	-0.84	4	0	1	5.674	21	-16.948	4	0	1	0	1
1079		5	max	0	32	-0.562	32	0	32	0	32	0	32	0	32	0	32
1080			min	0	1	-1.68	4	0	1	0	1	0	1	0	1	0	1
1081	F1_J99	1	max	0	32	1.68	8	0	32	0	32	0	32	0	32	0	32
1082			min	0	1	0.562	21	0	1	0	1	0	1	0	1	0	1
1083		2	max	0	32	0.84	8	0	32	16.948	8	-5.674	32	0	32	0	32
1084			min	0	1	0.281	21	0	1	5.674	21	-16.948	4	0	1	0	1
1085		3	max	0	32	0	32	0	32	22.597	8	-7.565	32	0	32	0	32
1086			min	0	1	0	1	0	1	7.565	21	-22.597	4	0	1	0	1
1087		4	max	0	32	-0.281	32	0	32	16.948	8	-5.674	32	0	32	0	32
1088			min	0	1	-0.84	4	0	1	5.674	21	-16.948	4	0	1	0	1
1089		5	max	0	32	-0.562	32	0	32	0	32	0	32	0	32	0	32
1090			min	0	1	-1.68	4	0	1	0	1	0	1	0	1	0	1
1091	F1_J100	1	max	0	32	1.68	8	0	32	0	32	0	32	0	32	0	32
1092			min	0	1	0.562	21	0	1	0	1	0	1	0	1	0	1
1093		2	max	0	32	0.84	8	0	32	16.948	8	-5.674	32	0	32	0	32
1094			min	0	1	0.281	21	0	1	5.674	21	-16.948	4	0	1	0	1
1095		3	max	0	32	0	32	0	32	22.597	8	-7.565	32	0	32	0	32
1096			min	0	1	0	1	0	1	7.565	21	-22.597	4	0	1	0	1
1097		4	max	0	32	-0.281	32	0	32	16.948	8	-5.674	32	0	32	0	32
1098			min	0	1	-0.84	4	0	1	5.674	21	-16.948	4	0	1	0	1
1099		5	max	0	32	-0.562	32	0	32	0	32	0	32	0	32	0	32
1100			min	0	1	-1.68	4	0	1	0	1	0	1	0	1	0	1
1101	F1_J101	1	max	0	32	1.68	8	0	32	0	32	0	32	0	32	0	32
1102			min	0	1	0.562	21	0	1	0	1	0	1	0	1	0	1
1103		2	max	0	32	0.84	8	0	32	16.948	8	-5.674	32	0	32	0	32
1104			min	0	1	0.281	21	0	1	5.674	21	-16.948	4	0	1	0	1
1105		3	max	0	32	0	32	0	32	22.597	8	-7.565	32	0	32	0	32
1106			min	0	1	0	1	0	1	7.565	21	-22.597	4	0	1	0	1
1107		4	max	0	32	-0.281	32	0	32	16.948	8	-5.674	32	0	32	0	32
1108			min	0	1	-0.84	4	0	1	5.674	21	-16.948	4	0	1	0	1
1109		5	max	0	32	-0.562	32	0	32	0	32	0	32	0	32	0	32
1110			min	0	1	-1.68	4	0	1	0	1	0	1	0	1	0	1
1111	F1_J102	1	max	0	32	1.68	8	0	32	0	32	0	32	0	32	0	32
1112			min	0	1	0.562	21	0	1	0	1	0	1	0	1	0	1
1113		2	max	0	32	0.84	8	0	32	16.948	8	-5.674	32	0	32	0	32
1114			min	0	1	0.281	21	0	1	5.674	21	-16.948	4	0	1	0	1
1115		3	max	0	32	0	32	0	32	22.597	8	-7.565	32	0	32	0	32
1116			min	0	1	0	1	0	1	7.565	21	-22.597	4	0	1	0	1
1117		4	max	0	32	-0.281	32	0	32	16.948	8	-5.674	32	0	32	0	32
1118			min	0	1	-0.84	4	0	1	5.674	21	-16.948	4	0	1	0	1
1119		5	max	0	32	-0.562	32	0	32	0	32	0	32	0	32	0	32
1120			min	0	1	-1.68	4	0	1	0	1	0	1	0	1	0	1
1121	F1_J103	1	max	0	32	1.68	8	0	32	0	32	0	32	0	32	0	32
1122			min	0	1	0.562	21	0	1	0	1	0	1	0	1	0	1
1123		2	max	0	32	0.84	8	0	32	16.948	8	-5.674	32	0	32	0	32
1124			min	0	1	0.281	21	0	1	5.674	21	-16.948	4	0	1	0	1
1125		3	max	0	32	0	32	0	32	22.597	8	-7.565	32	0	32	0	32
1126			min	0	1	0	1	0	1	7.565	21	-22.597	4	0	1	0	1
1127		4	max	0	32	-0.281	32	0	32	16.948	8	-5.674	32	0	32	0	32
1128			min	0	1	-0.84	4	0	1	5.674	21	-16.948	4	0	1	0	1
1129		5	max	0	32	-0.562	32	0	32	0	32	0	32	0	32	0	32
1130			min	0	1	-1.68	4	0	1	0	1	0	1	0	1	0	1
1131	F1_J104	1	max	0	32	1.68	8	0	32	0	32	0	32	0	32	0	32
1132			min	0	1	0.562	21	0	1	0	1	0	1	0	1	0	1
1133		2	max	0	32	0.84	8	0	32	16.948	8	-5.674	32	0	32	0	32
1134			min	0	1	0.281	21	0	1	5.674	21	-16.948	4	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
1135		3	max	0	32	0	32	0	32	22.597	8	-7.565	32	0	32	0	32
1136			min	0	1	0	1	0	1	7.565	21	-22.597	4	0	1	0	1
1137		4	max	0	32	-0.281	32	0	32	16.948	8	-5.674	32	0	32	0	32
1138			min	0	1	-0.84	4	0	1	5.674	21	-16.948	4	0	1	0	1
1139		5	max	0	32	-0.562	32	0	32	0	32	0	32	0	32	0	32
1140			min	0	1	-1.68	4	0	1	0	1	0	1	0	1	0	1
1141	F1_J105	1	max	0	32	1.68	8	0	32	0	32	0	32	0	32	0	32
1142			min	0	1	0.562	21	0	1	0	1	0	1	0	1	0	1
1143		2	max	0	32	0.84	8	0	32	16.948	8	-5.674	32	0	32	0	32
1144			min	0	1	0.281	21	0	1	5.674	21	-16.948	4	0	1	0	1
1145		3	max	0	32	0	32	0	32	22.597	8	-7.565	32	0	32	0	32
1146			min	0	1	0	1	0	1	7.565	21	-22.597	4	0	1	0	1
1147		4	max	0	32	-0.281	32	0	32	16.948	8	-5.674	32	0	32	0	32
1148			min	0	1	-0.84	4	0	1	5.674	21	-16.948	4	0	1	0	1
1149		5	max	0	32	-0.562	32	0	32	0	32	0	32	0	32	0	32
1150			min	0	1	-1.68	4	0	1	0	1	0	1	0	1	0	1
1151	F1_J106	1	max	0	32	1.68	8	0	32	0	32	0	32	0	32	0	32
1152			min	0	1	0.562	21	0	1	0	1	0	1	0	1	0	1
1153		2	max	0	32	0.84	8	0	32	16.948	8	-5.674	32	0	32	0	32
1154			min	0	1	0.281	21	0	1	5.674	21	-16.948	4	0	1	0	1
1155		3	max	0	32	0	32	0	32	22.597	8	-7.565	32	0	32	0	32
1156			min	0	1	0	1	0	1	7.565	21	-22.597	4	0	1	0	1
1157		4	max	0	32	-0.281	32	0	32	16.948	8	-5.674	32	0	32	0	32
1158			min	0	1	-0.84	4	0	1	5.674	21	-16.948	4	0	1	0	1
1159		5	max	0	32	-0.562	32	0	32	0	32	0	32	0	32	0	32
1160			min	0	1	-1.68	4	0	1	0	1	0	1	0	1	0	1
1161	F1_J107	1	max	0	32	1.68	8	0	32	0	32	0	32	0	32	0	32
1162			min	0	1	0.562	21	0	1	0	1	0	1	0	1	0	1
1163		2	max	0	32	0.84	8	0	32	16.948	8	-5.674	32	0	32	0	32
1164			min	0	1	0.281	21	0	1	5.674	21	-16.948	4	0	1	0	1
1165		3	max	0	32	0	32	0	32	22.597	8	-7.565	32	0	32	0	32
1166			min	0	1	0	1	0	1	7.565	21	-22.597	4	0	1	0	1
1167		4	max	0	32	-0.281	32	0	32	16.948	8	-5.674	32	0	32	0	32
1168			min	0	1	-0.84	4	0	1	5.674	21	-16.948	4	0	1	0	1
1169		5	max	0	32	-0.562	32	0	32	0	32	0	32	0	32	0	32
1170			min	0	1	-1.68	4	0	1	0	1	0	1	0	1	0	1
1171	F1_J108	1	max	0	32	1.65	8	0	32	0	32	0	32	0	32	0	32
1172			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
1173		2	max	0	32	0.825	8	0	32	16.649	8	-5.584	32	0	32	0	32
1174			min	0	1	0.277	21	0	1	5.584	21	-16.649	4	0	1	0	1
1175		3	max	0	32	0	32	0	32	22.199	8	-7.446	32	0	32	0	32
1176			min	0	1	0	1	0	1	7.446	21	-22.199	4	0	1	0	1
1177		4	max	0	32	-0.277	32	0	32	16.649	8	-5.584	32	0	32	0	32
1178			min	0	1	-0.825	4	0	1	5.584	21	-16.649	4	0	1	0	1
1179		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
1180			min	0	1	-1.65	4	0	1	0	1	0	1	0	1	0	1
1181	F1_J109	1	max	0	32	1.65	8	0	32	0	32	0	32	0	32	0	32
1182			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
1183		2	max	0	32	0.825	8	0	32	16.649	8	-5.584	32	0	32	0	32
1184			min	0	1	0.277	21	0	1	5.584	21	-16.649	4	0	1	0	1
1185		3	max	0	32	0	32	0	32	22.199	8	-7.446	32	0	32	0	32
1186			min	0	1	0	1	0	1	7.446	21	-22.199	4	0	1	0	1
1187		4	max	0	32	-0.277	32	0	32	16.649	8	-5.584	32	0	32	0	32
1188			min	0	1	-0.825	4	0	1	5.584	21	-16.649	4	0	1	0	1
1189		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
1190			min	0	1	-1.65	4	0	1	0	1	0	1	0	1	0	1
1191	F1_J110	1	max	0	32	1.65	8	0	32	0	32	0	32	0	32	0	32
1192			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
1193		2	max	0	32	0.825	8	0	32	16.649	8	-5.584	32	0	32	0	32
1194			min	0	1	0.277	21	0	1	5.584	21	-16.649	4	0	1	0	1
1195		3	max	0	32	0	32	0	32	22.199	8	-7.446	32	0	32	0	32
1196			min	0	1	0	1	0	1	7.446	21	-22.199	4	0	1	0	1
1197		4	max	0	32	-0.277	32	0	32	16.649	8	-5.584	32	0	32	0	32
1198			min	0	1	-0.825	4	0	1	5.584	21	-16.649	4	0	1	0	1
1199		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
1200			min	0	1	-1.65	4	0	1	0	1	0	1	0	1	0	1
1201	F1_J111	1	max	0	32	1.65	8	0	32	0	32	0	32	0	32	0	32
1202			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
1203		2	max	0	32	0.825	8	0	32	16.649	8	-5.584	32	0	32	0	32
1204			min	0	1	0.277	21	0	1	5.584	21	-16.649	4	0	1	0	1
1205		3	max	0	32	0	32	0	32	22.199	8	-7.446	32	0	32	0	32
1206			min	0	1	0	1	0	1	7.446	21	-22.199	4	0	1	0	1
1207		4	max	0	32	-0.277	32	0	32	16.649	8	-5.584	32	0	32	0	32
1208			min	0	1	-0.825	4	0	1	5.584	21	-16.649	4	0	1	0	1
1209		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
1210			min	0	1	-1.65	4	0	1	0	1	0	1	0	1	0	1
1211	F1_J112	1	max	0	32	1.65	8	0	32	0	32	0	32	0	32	0	32
1212			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
1213		2	max	0	32	0.825	8	0	32	16.649	8	-5.584	32	0	32	0	32
1214			min	0	1	0.277	21	0	1	5.584	21	-16.649	4	0	1	0	1
1215		3	max	0	32	0	32	0	32	22.199	8	-7.446	32	0	32	0	32
1216			min	0	1	0	1	0	1	7.446	21	-22.199	4	0	1	0	1
1217		4	max	0	32	-0.277	32	0	32	16.649	8	-5.584	32	0	32	0	32
1218			min	0	1	-0.825	4	0	1	5.584	21	-16.649	4	0	1	0	1
1219		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
1220			min	0	1	-1.65	4	0	1	0	1	0	1	0	1	0	1
1221	F1_J113	1	max	0	32	1.65	8	0	32	0	32	0	32	0	32	0	32
1222			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
1223		2	max	0	32	0.825	8	0	32	16.649	8	-5.584	32	0	32	0	32
1224			min	0	1	0.277	21	0	1	5.584	21	-16.649	4	0	1	0	1
1225		3	max	0	32	0	32	0	32	22.199	8	-7.446	32	0	32	0	32
1226			min	0	1	0	1	0	1	7.446	21	-22.199	4	0	1	0	1
1227		4	max	0	32	-0.277	32	0	32	16.649	8	-5.584	32	0	32	0	32
1228			min	0	1	-0.825	4	0	1	5.584	21	-16.649	4	0	1	0	1
1229		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
1230			min	0	1	-1.65	4	0	1	0	1	0	1	0	1	0	1
1231	F1_J114	1	max	0	32	1.626	8	0	32	0	32	0	32	0	32	0	32
1232			min	0	1	0.545	21	0	1	0	1	0	1	0	1	0	1
1233		2	max	0	32	0.813	8	0	32	16.153	8	-5.418	32	0	32	0	32
1234			min	0	1	0.273	21	0	1	5.418	21	-16.153	4	0	1	0	1
1235		3	max	0	32	0	32	0	32	21.538	8	-7.224	32	0	32	0	32
1236			min	0	1	0	1	0	1	7.224	21	-21.538	4	0	1	0	1
1237		4	max	0	32	-0.273	32	0	32	16.153	8	-5.418	32	0	32	0	32
1238			min	0	1	-0.813	4	0	1	5.418	21	-16.153	4	0	1	0	1
1239		5	max	0	32	-0.545	32	0	32	0	32	0	32	0	32	0	32
1240			min	0	1	-1.626	4	0	1	0	1	0	1	0	1	0	1
1241	F1_J115	1	max	0	32	1.626	8	0	32	0	32	0	32	0	32	0	32
1242			min	0	1	0.545	21	0	1	0	1	0	1	0	1	0	1
1243		2	max	0	32	0.813	8	0	32	16.153	8	-5.418	32	0	32	0	32
1244			min	0	1	0.273	21	0	1	5.418	21	-16.153	4	0	1	0	1
1245		3	max	0	32	0	32	0	32	21.538	8	-7.224	32	0	32	0	32
1246			min	0	1	0	1	0	1	7.224	21	-21.538	4	0	1	0	1
1247		4	max	0	32	-0.273	32	0	32	16.153	8	-5.418	32	0	32	0	32
1248			min	0	1	-0.813	4	0	1	5.418	21	-16.153	4	0	1	0	1
1249		5	max	0	32	-0.545	32	0	32	0	32	0	32	0	32	0	32
1250			min	0	1	-1.626	4	0	1	0	1	0	1	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
1251	F1_J116	1	max	0	32	1.626	8	0	32	0	32	0	32	0	32	0	32
1252			min	0	1	0.545	21	0	1	0	1	0	1	0	1	0	1
1253		2	max	0	32	0.813	8	0	32	16.153	8	-5.418	32	0	32	0	32
1254			min	0	1	0.273	21	0	1	5.418	21	-16.153	4	0	1	0	1
1255		3	max	0	32	0	32	0	32	21.538	8	-7.224	32	0	32	0	32
1256			min	0	1	0	1	0	1	7.224	21	-21.538	4	0	1	0	1
1257		4	max	0	32	-0.273	32	0	32	16.153	8	-5.418	32	0	32	0	32
1258			min	0	1	-0.813	4	0	1	5.418	21	-16.153	4	0	1	0	1
1259		5	max	0	32	-0.545	32	0	32	0	32	0	32	0	32	0	32
1260			min	0	1	-1.626	4	0	1	0	1	0	1	0	1	0	1
1261	F1_J117	1	max	0	32	1.626	8	0	32	0	32	0	32	0	32	0	32
1262			min	0	1	0.545	21	0	1	0	1	0	1	0	1	0	1
1263		2	max	0	32	0.813	8	0	32	16.153	8	-5.418	32	0	32	0	32
1264			min	0	1	0.273	21	0	1	5.418	21	-16.153	4	0	1	0	1
1265		3	max	0	32	0	32	0	32	21.538	8	-7.224	32	0	32	0	32
1266			min	0	1	0	1	0	1	7.224	21	-21.538	4	0	1	0	1
1267		4	max	0	32	-0.273	32	0	32	16.153	8	-5.418	32	0	32	0	32
1268			min	0	1	-0.813	4	0	1	5.418	21	-16.153	4	0	1	0	1
1269		5	max	0	32	-0.545	32	0	32	0	32	0	32	0	32	0	32
1270			min	0	1	-1.626	4	0	1	0	1	0	1	0	1	0	1
1271	F1_J118	1	max	0	32	1.626	8	0	32	0	32	0	32	0	32	0	32
1272			min	0	1	0.545	21	0	1	0	1	0	1	0	1	0	1
1273		2	max	0	32	0.813	8	0	32	16.153	8	-5.418	32	0	32	0	32
1274			min	0	1	0.273	21	0	1	5.418	21	-16.153	4	0	1	0	1
1275		3	max	0	32	0	32	0	32	21.538	8	-7.224	32	0	32	0	32
1276			min	0	1	0	1	0	1	7.224	21	-21.538	4	0	1	0	1
1277		4	max	0	32	-0.273	32	0	32	16.153	8	-5.418	32	0	32	0	32
1278			min	0	1	-0.813	4	0	1	5.418	21	-16.153	4	0	1	0	1
1279		5	max	0	32	-0.545	32	0	32	0	32	0	32	0	32	0	32
1280			min	0	1	-1.626	4	0	1	0	1	0	1	0	1	0	1
1281	F1_J119	1	max	0	32	1.626	8	0	32	0	32	0	32	0	32	0	32
1282			min	0	1	0.545	21	0	1	0	1	0	1	0	1	0	1
1283		2	max	0	32	0.813	8	0	32	16.153	8	-5.418	32	0	32	0	32
1284			min	0	1	0.273	21	0	1	5.418	21	-16.153	4	0	1	0	1
1285		3	max	0	32	0	32	0	32	21.538	8	-7.224	32	0	32	0	32
1286			min	0	1	0	1	0	1	7.224	21	-21.538	4	0	1	0	1
1287		4	max	0	32	-0.273	32	0	32	16.153	8	-5.418	32	0	32	0	32
1288			min	0	1	-0.813	4	0	1	5.418	21	-16.153	4	0	1	0	1
1289		5	max	0	32	-0.545	32	0	32	0	32	0	32	0	32	0	32
1290			min	0	1	-1.626	4	0	1	0	1	0	1	0	1	0	1
1291	F1_J120	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
1292			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
1293		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
1294			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
1295		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
1296			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
1297		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
1298			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
1299		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
1300			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
1301	F1_J121	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
1302			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
1303		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
1304			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
1305		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
1306			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
1307		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
1308			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
1309		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
1310			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
1311	F1_J122	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
1312			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
1313		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
1314			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
1315		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
1316			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
1317		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
1318			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
1319		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
1320			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
1321	F1_J123	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
1322			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
1323		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
1324			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
1325		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
1326			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
1327		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
1328			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
1329		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
1330			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
1331	F1_J124	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
1332			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
1333		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
1334			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
1335		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
1336			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
1337		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
1338			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
1339		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
1340			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
1341	F1_J125	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
1342			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
1343		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
1344			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
1345		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
1346			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
1347		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
1348			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
1349		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
1350			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
1351	F1_J126	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
1352			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
1353		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
1354			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
1355		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
1356			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
1357		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
1358			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
1359		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
1360			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
1361	F1_J127	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
1362			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
1363		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
1364			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
1365		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
1366			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
1367		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
1368			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
1369		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
1370			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
1371	F1_J128	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
1372			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
1373		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
1374			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
1375		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
1376			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
1377		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
1378			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
1379		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
1380			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
1381	F1_J129	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
1382			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
1383		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
1384			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
1385		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
1386			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
1387		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
1388			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
1389		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
1390			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
1391	F1_J130	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
1392			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
1393		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
1394			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
1395		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
1396			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
1397		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
1398			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
1399		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
1400			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
1401	F1_J131	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
1402			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
1403		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
1404			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
1405		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
1406			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
1407		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
1408			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
1409		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
1410			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
1411	F1_J132	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
1412			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
1413		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
1414			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
1415		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
1416			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
1417		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
1418			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
1419		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
1420			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
1421	F1_J133	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
1422			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
1423		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
1424			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
1425		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
1426			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
1427		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
1428			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
1429		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
1430			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
1431	F1_J134	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
1432			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
1433		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
1434			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
1435		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
1436			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
1437		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
1438			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
1439		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
1440			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
1441	F1_J135	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
1442			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
1443		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
1444			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
1445		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
1446			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
1447		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
1448			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
1449		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
1450			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
1451	F1_J136	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
1452			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
1453		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
1454			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
1455		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
1456			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
1457		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
1458			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
1459		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
1460			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
1461	F1_J137	1	max	0	32	1.655	8	0	32	0	32	0	32	0	32	0	32
1462			min	0	1	0.554	21	0	1	0	1	0	1	0	1	0	1
1463		2	max	0	32	0.827	8	0	32	16.443	8	-5.505	32	0	32	0	32
1464			min	0	1	0.277	21	0	1	5.505	21	-16.443	4	0	1	0	1
1465		3	max	0	32	0	32	0	32	21.924	8	-7.34	32	0	32	0	32
1466			min	0	1	0	1	0	1	7.34	21	-21.924	4	0	1	0	1
1467		4	max	0	32	-0.277	32	0	32	16.443	8	-5.505	32	0	32	0	32
1468			min	0	1	-0.827	4	0	1	5.505	21	-16.443	4	0	1	0	1
1469		5	max	0	32	-0.554	32	0	32	0	32	0	32	0	32	0	32
1470			min	0	1	-1.655	4	0	1	0	1	0	1	0	1	0	1
1471	F1_J138	1	max	0	32	1.626	8	0	32	0	32	0	32	0	32	0	32
1472			min	0	1	0.545	21	0	1	0	1	0	1	0	1	0	1
1473		2	max	0	32	0.813	8	0	32	16.153	8	-5.418	32	0	32	0	32
1474			min	0	1	0.273	21	0	1	5.418	21	-16.153	4	0	1	0	1
1475		3	max	0	32	0	32	0	32	21.538	8	-7.224	32	0	32	0	32
1476			min	0	1	0	1	0	1	7.224	21	-21.538	4	0	1	0	1
1477		4	max	0	32	-0.273	32	0	32	16.153	8	-5.418	32	0	32	0	32
1478			min	0	1	-0.813	4	0	1	5.418	21	-16.153	4	0	1	0	1
1479		5	max	0	32	-0.545	32	0	32	0	32	0	32	0	32	0	32
1480			min	0	1	-1.626	4	0	1	0	1	0	1	0	1	0	1
1481	F1_J139	1	max	0	32	1.626	8	0	32	0	32	0	32	0	32	0	32
1482			min	0	1	0.545	21	0	1	0	1	0	1	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
1483		2	max	0	32	0.813	8	0	32	16.153	8	-5.418	32	0	32	0	32
1484			min	0	1	0.273	21	0	1	5.418	21	-16.153	4	0	1	0	1
1485		3	max	0	32	0	32	0	32	21.538	8	-7.224	32	0	32	0	32
1486			min	0	1	0	1	0	1	7.224	21	-21.538	4	0	1	0	1
1487		4	max	0	32	-0.273	32	0	32	16.153	8	-5.418	32	0	32	0	32
1488			min	0	1	-0.813	4	0	1	5.418	21	-16.153	4	0	1	0	1
1489		5	max	0	32	-0.545	32	0	32	0	32	0	32	0	32	0	32
1490			min	0	1	-1.626	4	0	1	0	1	0	1	0	1	0	1
1491	F1_J140	1	max	0	32	1.626	8	0	32	0	32	0	32	0	32	0	32
1492			min	0	1	0.545	21	0	1	0	1	0	1	0	1	0	1
1493		2	max	0	32	0.813	8	0	32	16.153	8	-5.418	32	0	32	0	32
1494			min	0	1	0.273	21	0	1	5.418	21	-16.153	4	0	1	0	1
1495		3	max	0	32	0	32	0	32	21.538	8	-7.224	32	0	32	0	32
1496			min	0	1	0	1	0	1	7.224	21	-21.538	4	0	1	0	1
1497		4	max	0	32	-0.273	32	0	32	16.153	8	-5.418	32	0	32	0	32
1498			min	0	1	-0.813	4	0	1	5.418	21	-16.153	4	0	1	0	1
1499		5	max	0	32	-0.545	32	0	32	0	32	0	32	0	32	0	32
1500			min	0	1	-1.626	4	0	1	0	1	0	1	0	1	0	1
1501	F1_J141	1	max	0	32	1.626	8	0	32	0	32	0	32	0	32	0	32
1502			min	0	1	0.545	21	0	1	0	1	0	1	0	1	0	1
1503		2	max	0	32	0.813	8	0	32	16.153	8	-5.418	32	0	32	0	32
1504			min	0	1	0.273	21	0	1	5.418	21	-16.153	4	0	1	0	1
1505		3	max	0	32	0	32	0	32	21.538	8	-7.224	32	0	32	0	32
1506			min	0	1	0	1	0	1	7.224	21	-21.538	4	0	1	0	1
1507		4	max	0	32	-0.273	32	0	32	16.153	8	-5.418	32	0	32	0	32
1508			min	0	1	-0.813	4	0	1	5.418	21	-16.153	4	0	1	0	1
1509		5	max	0	32	-0.545	32	0	32	0	32	0	32	0	32	0	32
1510			min	0	1	-1.626	4	0	1	0	1	0	1	0	1	0	1
1511	F1_J142	1	max	0	32	1.626	8	0	32	0	32	0	32	0	32	0	32
1512			min	0	1	0.545	21	0	1	0	1	0	1	0	1	0	1
1513		2	max	0	32	0.813	8	0	32	16.153	8	-5.418	32	0	32	0	32
1514			min	0	1	0.273	21	0	1	5.418	21	-16.153	4	0	1	0	1
1515		3	max	0	32	0	32	0	32	21.538	8	-7.224	32	0	32	0	32
1516			min	0	1	0	1	0	1	7.224	21	-21.538	4	0	1	0	1
1517		4	max	0	32	-0.273	32	0	32	16.153	8	-5.418	32	0	32	0	32
1518			min	0	1	-0.813	4	0	1	5.418	21	-16.153	4	0	1	0	1
1519		5	max	0	32	-0.545	32	0	32	0	32	0	32	0	32	0	32
1520			min	0	1	-1.626	4	0	1	0	1	0	1	0	1	0	1
1521	F1_J143	1	max	0	32	1.626	8	0	32	0	32	0	32	0	32	0	32
1522			min	0	1	0.545	21	0	1	0	1	0	1	0	1	0	1
1523		2	max	0	32	0.813	8	0	32	16.153	8	-5.418	32	0	32	0	32
1524			min	0	1	0.273	21	0	1	5.418	21	-16.153	4	0	1	0	1
1525		3	max	0	32	0	32	0	32	21.538	8	-7.224	32	0	32	0	32
1526			min	0	1	0	1	0	1	7.224	21	-21.538	4	0	1	0	1
1527		4	max	0	32	-0.273	32	0	32	16.153	8	-5.418	32	0	32	0	32
1528			min	0	1	-0.813	4	0	1	5.418	21	-16.153	4	0	1	0	1
1529		5	max	0	32	-0.545	32	0	32	0	32	0	32	0	32	0	32
1530			min	0	1	-1.626	4	0	1	0	1	0	1	0	1	0	1
1531	F1_J148	1	max	0	32	2.159	8	0	32	0	32	0	32	0	32	0	32
1532			min	0	1	0.253	21	0	1	0	1	0	1	0	1	0	1
1533		2	max	0	32	1.09	8	0	32	7.163	8	-0.873	32	0	32	0	32
1534			min	0	1	0.134	21	0	1	0.873	21	-7.163	4	0	1	0	1
1535		3	max	0	32	0.001	1	0	32	9.558	8	-1.17	32	0	32	0	32
1536			min	0	1	0.001	21	0	1	1.17	21	-9.558	4	0	1	0	1
1537		4	max	0	32	-0.133	23	0	32	7.171	8	-0.879	32	0	32	0	32
1538			min	0	1	-1.088	4	0	1	0.879	21	-7.171	4	0	1	0	1
1539		5	max	0	32	-0.267	32	0	32	0	32	0	32	0	32	0	32
1540			min	0	1	-2.178	4	0	1	0	1	0	1	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
1541	F1_J149	1	max	0	32	2.434	8	0	32	0	32	0	32	0	32	0	32
1542			min	0	1	0.287	23	0	1	0	1	0	1	0	1	0	1
1543		2	max	0	32	1.227	8	0	32	9.084	8	-1.109	23	0	32	0	32
1544			min	0	1	0.151	23	0	1	1.109	23	-9.084	4	0	1	0	1
1545		3	max	0	32	0.001	1	0	32	12.119	8	-1.484	23	0	32	0	32
1546			min	0	1	0.001	23	0	1	1.484	23	-12.119	4	0	1	0	1
1547		4	max	0	32	-0.15	32	0	32	9.091	8	-1.115	23	0	32	0	32
1548			min	0	1	-1.226	4	0	1	1.115	23	-9.091	4	0	1	0	1
1549		5	max	0	32	-0.301	32	0	32	0	32	0	32	0	32	0	32
1550			min	0	1	-2.452	4	0	1	0	1	0	1	0	1	0	1
1551	F1_J150	1	max	0	32	2.788	8	0	32	0	32	0	32	0	32	0	32
1552			min	0	1	0.259	23	0	1	0	1	0	1	0	1	0	1
1553		2	max	0	32	1.399	8	0	32	12.35	8	-1.173	32	0	32	0	32
1554			min	0	1	0.133	23	0	1	1.173	21	-12.35	4	0	1	0	1
1555		3	max	0	32	0	1	0	32	16.469	8	-1.566	32	0	32	0	32
1556			min	0	1	0	23	0	1	1.566	21	-16.469	4	0	1	0	1
1557		4	max	0	32	-0.133	32	0	32	12.352	8	-1.175	23	0	32	0	32
1558			min	0	1	-1.399	4	0	1	1.175	23	-12.352	4	0	1	0	1
1559		5	max	0	32	-0.266	32	0	32	0	32	0	32	0	32	0	32
1560			min	0	1	-2.797	4	0	1	0	1	0	1	0	1	0	1
1561	F1_J151	1	max	0	32	3.68	8	0	32	0	32	0	32	0	32	0	32
1562			min	0	1	0.441	21	0	1	0	1	0	1	0	1	0	1
1563		2	max	0	32	1.85	8	0	32	20.665	8	-2.537	32	0	32	0	32
1564			min	0	1	0.228	21	0	1	2.537	21	-20.665	4	0	1	0	1
1565		3	max	0	32	0.001	1	0	32	27.56	8	-3.388	32	0	32	0	32
1566			min	0	1	0	21	0	1	3.388	21	-27.56	4	0	1	0	1
1567		4	max	0	32	-0.227	32	0	32	20.672	8	-2.542	32	0	32	0	32
1568			min	0	1	-1.849	4	0	1	2.542	21	-20.672	4	0	1	0	1
1569		5	max	0	32	-0.455	32	0	32	0	32	0	32	0	32	0	32
1570			min	0	1	-3.698	4	0	1	0	1	0	1	0	1	0	1
1571	F1_J152	1	max	0	32	3.87	8	0	32	0	32	0	32	0	32	0	32
1572			min	0	1	0.41	21	0	1	0	1	0	1	0	1	0	1
1573		2	max	0	32	1.958	8	0	32	23.412	8	-2.593	32	0	32	0	32
1574			min	0	1	0.223	21	0	1	2.593	21	-23.412	4	0	1	0	1
1575		3	max	0	32	0.013	1	0	32	31.31	8	-3.527	32	0	32	0	32
1576			min	0	1	0.008	21	0	1	3.527	21	-31.31	4	0	1	0	1
1577		4	max	0	32	-0.218	32	0	32	23.548	8	-2.695	32	0	32	0	32
1578			min	0	1	-1.952	4	0	1	2.695	21	-23.548	4	0	1	0	1
1579		5	max	0	32	-0.457	32	0	32	0	32	0	32	0	32	0	32
1580			min	0	1	-3.931	4	0	1	0	1	0	1	0	1	0	1
1581	F1_J153	1	max	0	32	3.129	8	0	32	0	32	0	32	0	32	0	32
1582			min	0	1	0.637	21	0	1	0	1	0	1	0	1	0	1
1583		2	max	0	32	1.621	8	0	32	21.553	8	-4.525	32	0	32	0	32
1584			min	0	1	0.361	21	0	1	4.525	21	-21.553	4	0	1	0	1
1585		3	max	0	32	0.132	1	0	32	29.421	8	-6.546	32	0	32	0	32
1586			min	0	1	0.085	21	0	1	6.546	21	-29.421	4	0	1	0	1
1587		4	max	0	32	-0.361	32	0	32	21.553	8	-4.525	32	0	32	0	32
1588			min	0	1	-1.621	4	0	1	4.525	21	-21.553	4	0	1	0	1
1589		5	max	0	32	-0.637	32	0	32	0	32	0	32	0	32	0	32
1590			min	0	1	-3.129	4	0	1	0	1	0	1	0	1	0	1
1591	F1_J154	1	max	0	32	2.759	8	0	32	0	32	0	32	0	32	0	32
1592			min	0	1	0.578	21	0	1	0	1	0	1	0	1	0	1
1593		2	max	0	32	1.527	8	0	32	19.534	8	-4.207	32	0	32	0	32
1594			min	0	1	0.346	21	0	1	4.207	21	-19.534	4	0	1	0	1
1595		3	max	0	32	0.183	8	0	32	27.381	8	-6.225	32	0	32	0	32
1596			min	0	1	0.096	21	0	1	6.225	21	-27.381	4	0	1	0	1
1597		4	max	0	32	-0.342	32	0	32	20.461	8	-4.353	32	0	32	0	32
1598			min	0	1	-1.501	4	0	1	4.353	21	-20.461	4	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
1599		5	max	0	32	-0.618	32	0	32	0	32	0	32	0	32	0	32
1600			min	0	1	-3.009	4	0	1	0	1	0	1	0	1	0	1
1601	F1_J155	1	max	0	32	3.175	8	0	32	0	32	0	32	0	32	0	32
1602			min	0	1	0.645	21	0	1	0	1	0	1	0	1	0	1
1603		2	max	0	32	1.644	8	0	32	22.199	8	-4.652	32	0	32	0	32
1604			min	0	1	0.365	21	0	1	4.652	21	-22.199	4	0	1	0	1
1605		3	max	0	32	0.132	1	0	32	30.292	8	-6.723	32	0	32	0	32
1606			min	0	1	0.085	21	0	1	6.723	21	-30.292	4	0	1	0	1
1607		4	max	0	32	-0.365	32	0	32	22.199	8	-4.652	32	0	32	0	32
1608			min	0	1	-1.644	4	0	1	4.652	21	-22.199	4	0	1	0	1
1609		5	max	0	32	-0.645	32	0	32	0	32	0	32	0	32	0	32
1610			min	0	1	-3.175	4	0	1	0	1	0	1	0	1	0	1
1611	F1_J156	1	max	0	32	3.175	8	0	32	0	32	0	32	0	32	0	32
1612			min	0	1	0.645	21	0	1	0	1	0	1	0	1	0	1
1613		2	max	0	32	1.644	8	0	32	22.199	8	-4.652	32	0	32	0	32
1614			min	0	1	0.365	21	0	1	4.652	21	-22.199	4	0	1	0	1
1615		3	max	0	32	0.132	1	0	32	30.292	8	-6.723	32	0	32	0	32
1616			min	0	1	0.085	21	0	1	6.723	21	-30.292	4	0	1	0	1
1617		4	max	0	32	-0.365	32	0	32	22.199	8	-4.652	32	0	32	0	32
1618			min	0	1	-1.644	4	0	1	4.652	21	-22.199	4	0	1	0	1
1619		5	max	0	32	-0.645	32	0	32	0	32	0	32	0	32	0	32
1620			min	0	1	-3.175	4	0	1	0	1	0	1	0	1	0	1
1621	F1_J157	1	max	0	32	3.129	8	0	32	0	32	0	32	0	32	0	32
1622			min	0	1	0.637	21	0	1	0	1	0	1	0	1	0	1
1623		2	max	0	32	1.621	8	0	32	21.553	8	-4.525	32	0	32	0	32
1624			min	0	1	0.361	21	0	1	4.525	21	-21.553	4	0	1	0	1
1625		3	max	0	32	0.132	1	0	32	29.421	8	-6.546	32	0	32	0	32
1626			min	0	1	0.085	21	0	1	6.546	21	-29.421	4	0	1	0	1
1627		4	max	0	32	-0.361	32	0	32	21.553	8	-4.525	32	0	32	0	32
1628			min	0	1	-1.621	4	0	1	4.525	21	-21.553	4	0	1	0	1
1629		5	max	0	32	-0.637	32	0	32	0	32	0	32	0	32	0	32
1630			min	0	1	-3.129	4	0	1	0	1	0	1	0	1	0	1
1631	F1_J158	1	max	0	32	3.129	8	0	32	0	32	0	32	0	32	0	32
1632			min	0	1	0.637	21	0	1	0	1	0	1	0	1	0	1
1633		2	max	0	32	1.621	8	0	32	21.553	8	-4.525	32	0	32	0	32
1634			min	0	1	0.361	21	0	1	4.525	21	-21.553	4	0	1	0	1
1635		3	max	0	32	0.132	1	0	32	29.421	8	-6.546	32	0	32	0	32
1636			min	0	1	0.085	21	0	1	6.546	21	-29.421	4	0	1	0	1
1637		4	max	0	32	-0.361	32	0	32	21.553	8	-4.525	32	0	32	0	32
1638			min	0	1	-1.621	4	0	1	4.525	21	-21.553	4	0	1	0	1
1639		5	max	0	32	-0.637	32	0	32	0	32	0	32	0	32	0	32
1640			min	0	1	-3.129	4	0	1	0	1	0	1	0	1	0	1
1641	F1_G159	1	max	0	23	0.86	8	0	32	0	32	0	32	0	32	0	32
1642			min	0	21	0.182	21	0	1	0	1	0	1	0	1	0	1
1643		2	max	0	23	0.43	8	0	32	2.169	8	-0.459	32	0	32	0	32
1644			min	0	21	0.091	21	0	1	0.459	21	-2.169	4	0	1	0	1
1645		3	max	0	23	0	32	0	32	2.893	8	-0.612	32	0	32	0	32
1646			min	0	21	0	1	0	1	0.612	21	-2.893	4	0	1	0	1
1647		4	max	0	23	-0.091	32	0	32	2.169	8	-0.459	32	0	32	0	32
1648			min	0	21	-0.43	4	0	1	0.459	21	-2.169	4	0	1	0	1
1649		5	max	0	23	-0.182	32	0	32	0	32	0	32	0	32	0	32
1650			min	0	21	-0.86	4	0	1	0	1	0	1	0	1	0	1
1651	F1_G154	1	max	0	21	1.689	5	0	15	0	32	0	32	0	32	0	32
1652			min	0	15	0.345	23	0	21	0	1	0	1	0	1	0	1
1653		2	max	0	21	1.315	5	0	15	8.529	5	-1.567	23	0	15	0	21
1654			min	0	15	0.213	23	0	21	1.567	23	-8.529	5	0	21	0	15
1655		3	max	0	21	0.731	5	0	15	14.371	5	-2.391	23	0	15	0	21
1656			min	0	15	0.081	23	0	21	2.391	23	-14.371	5	0	21	0	15

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
1657		4	max	0	15	-0.213	21	0	13	9.713	7	-1.568	21	0	22	0	13
1658			min	0	21	-1.247	7	0	22	1.568	21	-9.713	7	0	13	0	22
1659		5	max	0	15	-0.345	21	0	13	0	32	0	32	0	32	0	32
1660			min	0	21	-2.249	7	0	22	0	1	0	1	0	1	0	1
1661	F1_G155	1	max	0.006	7	1.287	6	0	21	0	32	0	32	0	32	0	32
1662			min	0	21	0.169	29	0	7	0	1	0	1	0	1	0	1
1663		2	max	0.006	7	0.643	6	0	21	2.469	6	-0.324	32	0	21	0	7
1664			min	0	21	0.084	29	0	7	0.324	29	-2.469	5	0	7	0	21
1665		3	max	0.006	7	0	24	0	21	3.292	6	-0.432	32	0	21	0	7
1666			min	0	21	0	1	0	7	0.432	29	-3.292	5	0	7	0	21
1667		4	max	0	21	-0.084	21	0	21	2.469	4	-0.324	21	0	7	0	21
1668			min	-0.007	7	-0.643	4	0	7	0.324	21	-2.469	4	0	21	0	7
1669		5	max	0	21	-0.169	21	0	21	0	32	0	32	0	32	0	32
1670			min	-0.007	7	-1.287	4	0	7	0	1	0	1	0	1	0	1
1671	F1_G157	1	max	0	32	1.622	8	0	32	0	32	0	32	0	32	0	32
1672			min	0	1	0.222	23	0	1	0	1	0	1	0	1	0	1
1673		2	max	0	32	0.811	8	0	32	3.89	8	-0.532	23	0	32	0	32
1674			min	0	1	0.111	23	0	1	0.532	23	-3.89	4	0	1	0	1
1675		3	max	0	32	0	32	0	32	5.187	8	-0.709	23	0	32	0	32
1676			min	0	1	0	1	0	1	0.709	23	-5.187	4	0	1	0	1
1677		4	max	0	32	-0.111	32	0	32	3.889	8	-0.531	23	0	32	0	32
1678			min	0	1	-0.811	4	0	1	0.531	23	-3.889	4	0	1	0	1
1679		5	max	0	32	-0.213	32	0	32	0	32	0	32	0	32	0	32
1680			min	0	1	-1.611	4	0	1	0	1	0	1	0	1	0	1
1681	F1_G160	1	max	0	32	0.039	1	0	32	0	32	0	32	0	32	0	32
1682			min	0	1	0.025	21	0	1	0	1	0	1	0	1	0	1
1683		2	max	0	32	0.019	1	0	32	0.131	1	-0.084	32	0	32	0	32
1684			min	0	1	0.013	21	0	1	0.084	21	-0.131	1	0	1	0	1
1685		3	max	0	32	0	32	0	32	0.174	1	-0.112	32	0	32	0	32
1686			min	0	1	0	1	0	1	0.112	21	-0.174	1	0	1	0	1
1687		4	max	0	32	-0.013	32	0	32	0.131	1	-0.084	32	0	32	0	32
1688			min	0	1	-0.019	1	0	1	0.084	21	-0.131	1	0	1	0	1
1689		5	max	0	32	-0.025	32	0	32	0	32	0	32	0	32	0	32
1690			min	0	1	-0.039	1	0	1	0	1	0	1	0	1	0	1
1691	(B-2)_L1	1	max	22.19	7	0	32	0	32	0	32	0	32	0	32	0	32
1692			min	7.723	21	0	1	0	1	0	1	0	1	0	1	0	1
1693		2	max	22.172	7	0	32	0	32	0	32	0	32	0	32	0	32
1694			min	7.71	21	0	1	0	1	0	1	0	1	0	1	0	1
1695		3	max	22.154	7	0	32	0	32	0	32	0	32	0	32	0	32
1696			min	7.696	21	0	1	0	1	0	1	0	1	0	1	0	1
1697		4	max	22.137	7	0	32	0	32	0	32	0	32	0	32	0	32
1698			min	7.683	21	0	1	0	1	0	1	0	1	0	1	0	1
1699		5	max	22.119	7	0	32	0	32	0	32	0	32	0	32	0	32
1700			min	7.67	21	0	1	0	1	0	1	0	1	0	1	0	1
1701	(B-3)_L1	1	max	20.987	5	0	32	0	32	0	32	0	32	0	32	0	32
1702			min	7.269	23	0	1	0	1	0	1	0	1	0	1	0	1
1703		2	max	20.97	5	0	32	0	32	0	32	0	32	0	32	0	32
1704			min	7.256	23	0	1	0	1	0	1	0	1	0	1	0	1
1705		3	max	20.952	5	0	32	0	32	0	32	0	32	0	32	0	32
1706			min	7.242	23	0	1	0	1	0	1	0	1	0	1	0	1
1707		4	max	20.935	5	0	32	0	32	0	32	0	32	0	32	0	32
1708			min	7.229	23	0	1	0	1	0	1	0	1	0	1	0	1
1709		5	max	20.917	5	0	32	0	32	0	32	0	32	0	32	0	32
1710			min	7.216	23	0	1	0	1	0	1	0	1	0	1	0	1
1711	(A-2)_L1	1	max	22.19	5	0	32	0	32	0	32	0	32	0	32	0	32
1712			min	7.723	23	0	1	0	1	0	1	0	1	0	1	0	1
1713		2	max	22.172	5	0	32	0	32	0	32	0	32	0	32	0	32
1714			min	7.71	23	0	1	0	1	0	1	0	1	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
1715		3	max	22.154	5	0	32	0	32	0	32	0	32	0	32	0	32
1716			min	7.696	23	0	1	0	1	0	1	0	1	0	1	0	1
1717		4	max	22.137	5	0	32	0	32	0	32	0	32	0	32	0	32
1718			min	7.683	23	0	1	0	1	0	1	0	1	0	1	0	1
1719		5	max	22.119	5	0	32	0	32	0	32	0	32	0	32	0	32
1720			min	7.67	23	0	1	0	1	0	1	0	1	0	1	0	1
1721	(A-3)_L1	1	max	20.987	5	0	32	0	32	0	32	0	32	0	32	0	32
1722			min	7.269	23	0	1	0	1	0	1	0	1	0	1	0	1
1723		2	max	20.97	5	0	32	0	32	0	32	0	32	0	32	0	32
1724			min	7.256	23	0	1	0	1	0	1	0	1	0	1	0	1
1725		3	max	20.952	5	0	32	0	32	0	32	0	32	0	32	0	32
1726			min	7.242	23	0	1	0	1	0	1	0	1	0	1	0	1
1727		4	max	20.935	5	0	32	0	32	0	32	0	32	0	32	0	32
1728			min	7.229	23	0	1	0	1	0	1	0	1	0	1	0	1
1729		5	max	20.917	5	0	32	0	32	0	32	0	32	0	32	0	32
1730			min	7.216	23	0	1	0	1	0	1	0	1	0	1	0	1
1731	(B-4)_L1	1	max	20.987	7	0	32	0	32	0	32	0	32	0	32	0	32
1732			min	7.269	21	0	1	0	1	0	1	0	1	0	1	0	1
1733		2	max	20.97	7	0	32	0	32	0	32	0	32	0	32	0	32
1734			min	7.256	21	0	1	0	1	0	1	0	1	0	1	0	1
1735		3	max	20.952	7	0	32	0	32	0	32	0	32	0	32	0	32
1736			min	7.242	21	0	1	0	1	0	1	0	1	0	1	0	1
1737		4	max	20.935	7	0	32	0	32	0	32	0	32	0	32	0	32
1738			min	7.229	21	0	1	0	1	0	1	0	1	0	1	0	1
1739		5	max	20.917	7	0	32	0	32	0	32	0	32	0	32	0	32
1740			min	7.216	21	0	1	0	1	0	1	0	1	0	1	0	1
1741	(A-4)_L1	1	max	20.987	7	0	32	0	32	0	32	0	32	0	32	0	32
1742			min	7.269	21	0	1	0	1	0	1	0	1	0	1	0	1
1743		2	max	20.97	7	0	32	0	32	0	32	0	32	0	32	0	32
1744			min	7.256	21	0	1	0	1	0	1	0	1	0	1	0	1
1745		3	max	20.952	7	0	32	0	32	0	32	0	32	0	32	0	32
1746			min	7.243	21	0	1	0	1	0	1	0	1	0	1	0	1
1747		4	max	20.935	7	0	32	0	32	0	32	0	32	0	32	0	32
1748			min	7.229	21	0	1	0	1	0	1	0	1	0	1	0	1
1749		5	max	20.917	7	0	32	0	32	0	32	0	32	0	32	0	32
1750			min	7.216	21	0	1	0	1	0	1	0	1	0	1	0	1
1751	(B-5)_L1	1	max	22.19	5	0	32	0	32	0	32	0	32	0	32	0	32
1752			min	7.723	23	0	1	0	1	0	1	0	1	0	1	0	1
1753		2	max	22.172	5	0	32	0	32	0	32	0	32	0	32	0	32
1754			min	7.71	23	0	1	0	1	0	1	0	1	0	1	0	1
1755		3	max	22.154	5	0	32	0	32	0	32	0	32	0	32	0	32
1756			min	7.696	23	0	1	0	1	0	1	0	1	0	1	0	1
1757		4	max	22.137	5	0	32	0	32	0	32	0	32	0	32	0	32
1758			min	7.683	23	0	1	0	1	0	1	0	1	0	1	0	1
1759		5	max	22.119	5	0	32	0	32	0	32	0	32	0	32	0	32
1760			min	7.67	23	0	1	0	1	0	1	0	1	0	1	0	1
1761	(A-5)_L1	1	max	22.19	5	0	32	0	32	0	32	0	32	0	32	0	32
1762			min	7.723	23	0	1	0	1	0	1	0	1	0	1	0	1
1763		2	max	22.172	5	0	32	0	32	0	32	0	32	0	32	0	32
1764			min	7.71	23	0	1	0	1	0	1	0	1	0	1	0	1
1765		3	max	22.154	5	0	32	0	32	0	32	0	32	0	32	0	32
1766			min	7.696	23	0	1	0	1	0	1	0	1	0	1	0	1
1767		4	max	22.137	5	0	32	0	32	0	32	0	32	0	32	0	32
1768			min	7.683	23	0	1	0	1	0	1	0	1	0	1	0	1
1769		5	max	22.119	5	0	32	0	32	0	32	0	32	0	32	0	32
1770			min	7.67	23	0	1	0	1	0	1	0	1	0	1	0	1
1771	(A-6)_L1	1	max	16.256	7	0	21	0	7	0	32	0	32	0	32	0	32
1772			min	4.062	21	-0.001	7	0	21	0	1	0	1	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
1773		2	max	16.239	7	0	21	0	7	-0.003	21	0.014	7	0.002	7	0	21
1774			min	4.049	21	-0.001	7	0	21	-0.014	7	0.003	21	0	21	-0.002	7
1775		3	max	16.221	7	0	21	0	7	-0.006	21	0.027	7	0.005	7	0	21
1776			min	4.036	21	-0.001	7	0	21	-0.027	7	0.006	21	0	21	-0.005	7
1777		4	max	16.203	7	0	21	0	7	-0.008	21	0.041	7	0.007	7	0.001	21
1778			min	4.023	21	-0.001	7	0	21	-0.041	7	0.008	21	-0.001	21	-0.007	7
1779		5	max	16.186	7	0	21	0	7	-0.011	21	0.054	7	0.009	7	0.001	21
1780			min	4.009	21	-0.001	7	0	21	-0.054	7	0.011	21	-0.001	21	-0.009	7
1781	(M-D)_L1	1	max	4.901	5	0	23	0	5	0	32	0	32	0	32	0	32
1782			min	1.101	23	0	13	0	23	0	1	0	1	0	1	0	1
1783		2	max	4.884	5	0	23	0	5	0	23	0	13	0.003	5	-0.001	23
1784			min	1.088	23	0	13	0	23	0	13	0	23	0.001	23	-0.003	5
1785		3	max	4.866	5	0	23	0	5	0	23	0	13	0.007	5	-0.001	23
1786			min	1.075	23	0	13	0	23	0	13	0	23	0.001	23	-0.007	5
1787		4	max	4.849	5	0	23	0	5	0	23	0	13	0.01	5	-0.002	23
1788			min	1.062	23	0	13	0	23	0	13	0	23	0.002	23	-0.01	5
1789		5	max	4.831	5	0	23	0	5	0	23	0	13	0.013	5	-0.003	23
1790			min	1.049	23	0	13	0	23	0	13	0	23	0.003	23	-0.013	5
1791	C15_L1	1	max	7.819	7	0	21	0	23	0	32	0	32	0	32	0	32
1792			min	1.833	21	0	15	0	13	0	1	0	1	0	1	0	1
1793		2	max	7.802	7	0	21	0	23	0	21	0	15	0	23	0	13
1794			min	1.82	21	0	15	0	13	0	15	0	21	0	13	0	23
1795		3	max	7.784	7	0	21	0	23	0	21	0	15	0	23	0	13
1796			min	1.807	21	0	15	0	13	0	15	0	21	0	13	0	23
1797		4	max	7.767	7	0	21	0	23	0	21	0	15	0	23	0	13
1798			min	1.793	21	0	15	0	13	0	15	0	21	0	13	0	23
1799		5	max	7.749	7	0	21	0	23	0	21	0	15	0	23	0	13
1800			min	1.78	21	0	15	0	13	0	15	0	21	0	13	0	23
1801	C19_L1	1	max	8.071	4	2.135	7	-0.017	21	0	32	0	32	0	32	0	32
1802			min	1.675	23	0.396	21	-0.088	4	0	1	0	1	0	1	0	1
1803		2	max	8.054	4	2.135	7	-0.017	21	17.939	7	-3.331	21	-0.111	21	0.583	4
1804			min	1.662	23	0.396	21	-0.088	4	3.331	21	-17.939	7	-0.583	4	0.111	21
1805		3	max	8.036	4	2.135	7	-0.017	21	35.877	7	-6.662	21	-0.222	21	1.167	4
1806			min	1.649	23	0.396	21	-0.088	4	6.662	21	-35.877	7	-1.167	4	0.222	21
1807		4	max	8.019	4	-1.163	21	0.282	4	53.816	7	-9.993	21	-0.374	21	1.877	4
1808			min	1.636	23	-5.955	7	0.056	21	9.993	21	-53.816	7	-1.877	4	0.374	21
1809		5	max	4.567	7	-1.163	21	0.282	4	-0.01	23	0.054	5	0.002	7	0	21
1810			min	0.715	21	-5.955	7	0.056	21	-0.054	5	0.01	23	0	21	-0.002	7
1811	C20_L1	1	max	4.601	4	-0.002	23	-0.027	21	0	32	0	32	0	32	0	32
1812			min	1.025	23	-0.529	5	-0.126	4	0	1	0	1	0	1	0	1
1813		2	max	4.583	4	-0.002	23	-0.027	21	-0.015	23	4.445	5	-0.177	21	0.842	4
1814			min	1.012	23	-0.529	5	-0.126	4	-4.445	5	0.015	23	-0.842	4	0.177	21
1815		3	max	4.566	4	-0.002	23	-0.027	21	-0.03	23	8.89	5	-0.354	21	1.684	4
1816			min	0.999	23	-0.529	5	-0.126	4	-8.89	5	0.03	23	-1.684	4	0.354	21
1817		4	max	4.548	4	0.311	21	-0.037	9	7.415	15	13.335	5	-0.53	21	2.526	4
1818			min	0.986	23	-0.913	7	-0.224	4	-13.335	5	-7.415	15	-2.526	4	0.53	21
1819		5	max	1.746	5	0.311	21	-0.04	21	0.004	5	-0.001	23	0	7	0	21
1820			min	0.251	23	-0.913	7	-0.224	4	0.001	23	-0.004	5	0	21	0	7
1821	(J-C)_L1	1	max	1.903	5	0	5	0	5	0	32	0	32	0	32	0	32
1822			min	0.588	23	0	23	0	23	0	1	0	1	0	1	0	1
1823		2	max	1.886	5	0	5	0	5	0.003	5	0	23	0.001	5	0	23
1824			min	0.575	23	0	23	0	23	0	23	-0.003	5	0	23	-0.001	5
1825		3	max	1.868	5	0	5	0	5	0.005	5	-0.001	23	0.002	5	0	23
1826			min	0.561	23	0	23	0	23	0.001	23	-0.005	5	0	23	-0.002	5
1827		4	max	1.85	5	0	5	0	5	0.008	5	-0.001	23	0.002	5	0	23
1828			min	0.548	23	0	23	0	23	0.001	23	-0.008	5	0	23	-0.002	5
1829		5	max	1.833	5	0	5	0	5	0.011	5	-0.002	23	0.003	5	0	23
1830			min	0.535	23	0	23	0	23	0.002	23	-0.011	5	0	23	-0.003	5

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
1831	(K-C)_L1	1	max	2.018	5	0.199	4	0.002	4	0	32	0	32	0	32	0	32
1832			min	0.666	23	0.033	23	0	21	0	1	0	1	0	1	0	1
1833		2	max	2	5	0.199	4	0.002	4	2.512	4	-0.414	23	0.029	4	0.002	21
1834			min	0.653	23	0.033	23	0	21	0.414	23	-2.512	4	-0.002	21	-0.029	4
1835		3	max	1.983	5	0.199	4	0.002	4	5.023	4	-0.827	23	0.059	4	0.004	21
1836			min	0.639	23	0.033	23	0	21	0.827	23	-5.023	4	-0.004	21	-0.059	4
1837		4	max	3.196	5	-0.099	23	0.041	7	7.535	4	-1.241	23	-0.06	21	0.512	7
1838			min	0.917	23	-0.599	4	0.005	21	1.241	23	-7.535	4	-0.512	7	0.06	21
1839		5	max	3.178	5	-0.099	23	0.041	7	-0.003	21	0.015	4	0	7	0	21
1840			min	0.904	23	-0.599	4	0.005	21	-0.015	4	0.003	21	0	21	0	7
1841	(C-5)_L1	1	max	5.07	7	0.122	5	0.002	19	0	32	0	32	0	32	0	32
1842			min	1.281	21	-0.018	23	-0.004	13	0	1	0	1	0	1	0	1
1843		2	max	5.053	7	0.122	5	0.002	19	1.531	5	0.228	23	0.029	19	0.046	13
1844			min	1.268	21	-0.018	23	-0.004	13	-0.228	23	-1.531	5	-0.046	13	-0.029	19
1845		3	max	5.035	7	0.122	5	0.002	19	3.063	5	0.457	23	0.058	19	0.092	13
1846			min	1.255	21	-0.018	23	-0.004	13	-0.457	23	-3.063	5	-0.092	13	-0.058	19
1847		4	max	5.465	7	0.055	23	0.064	4	4.594	5	0.685	23	-0.179	21	0.804	4
1848			min	1.397	21	-0.363	5	0.014	21	-0.685	23	-4.594	5	-0.804	4	0.179	21
1849		5	max	5.448	7	0.055	23	0.064	4	0.024	7	-0.003	21	0.004	7	-0.001	21
1850			min	1.383	21	-0.363	5	0.014	21	0.003	21	-0.024	7	0.001	21	-0.004	7
1851	M193	1	max	-0.074	23	1.484	4	0.41	21	0	32	0	32	0	32	0	32
1852			min	-0.483	5	0.431	23	-0.411	15	0	1	0	1	0	1	0	1
1853		2	max	-0.09	23	0.734	4	0.299	13	14.465	4	-4.128	21	2.044	21	2.054	15
1854			min	-0.477	4	0.216	23	-0.293	23	4.128	21	-14.465	4	-2.054	15	-2.044	21
1855		3	max	-0.101	23	0.027	2	0.057	21	18.775	4	-5.438	21	2.976	13	2.943	23
1856			min	-0.479	4	0.01	23	-0.082	15	5.438	21	-18.775	4	-2.943	23	-2.976	13
1857		4	max	-0.091	21	-0.187	21	0.054	13	13.421	4	-4.077	21	1.661	21	1.85	15
1858			min	-0.476	4	-0.639	4	-0.035	23	4.077	21	-13.421	4	-1.85	15	-1.661	21
1859		5	max	-0.091	21	-0.355	21	0.397	15	0	32	0	32	0	32	0	32
1860			min	-0.476	4	-1.147	4	-0.378	21	0	1	0	1	0	1	0	1
1861	M194	1	max	-0.034	21	0.864	4	0.722	21	0	32	0	32	0	32	0	32
1862			min	-0.175	4	0.286	21	-0.722	23	0	1	0	1	0	1	0	1
1863		2	max	-0.034	21	0.432	4	0.361	21	8.278	4	-2.737	32	4.611	21	4.611	23
1864			min	-0.175	4	0.143	21	-0.361	23	2.737	21	-8.278	4	-4.611	23	-4.611	21
1865		3	max	-0.034	21	0	32	0	32	11.037	4	-3.65	32	6.148	21	6.148	23
1866			min	-0.175	4	0	1	0	1	3.65	21	-11.037	4	-6.148	23	-6.148	21
1867		4	max	-0.034	21	-0.143	32	0.361	19	8.278	4	-2.737	32	4.611	21	4.611	23
1868			min	-0.175	4	-0.432	4	-0.361	13	2.737	21	-8.278	4	-4.611	23	-4.611	21
1869		5	max	-0.034	21	-0.286	32	0.722	19	0	32	0	32	0	32	0	32
1870			min	-0.175	4	-0.864	4	-0.722	13	0	1	0	1	0	1	0	1
1871	M196	1	max	-0.02	21	0.864	4	0.726	13	0	32	0	32	0	32	0	32
1872			min	-0.102	4	0.284	21	-0.726	19	0	1	0	1	0	1	0	1
1873		2	max	-0.02	21	0.432	4	0.363	13	8.328	4	-2.735	32	4.665	13	4.665	23
1874			min	-0.102	4	0.142	21	-0.363	19	2.735	21	-8.328	4	-4.665	15	-4.665	13
1875		3	max	-0.02	21	0	32	0	32	11.104	4	-3.646	32	6.22	13	6.22	23
1876			min	-0.102	4	0	1	0	1	3.646	21	-11.104	4	-6.22	19	-6.22	13
1877		4	max	-0.02	21	-0.142	32	0.363	15	8.328	4	-2.735	32	4.665	13	4.665	23
1878			min	-0.102	4	-0.432	4	-0.363	17	2.735	21	-8.328	4	-4.665	19	-4.665	13
1879		5	max	-0.02	21	-0.284	32	0.726	15	0	32	0	32	0	32	0	32
1880			min	-0.102	4	-0.864	4	-0.726	17	0	1	0	1	0	1	0	1
1881	M197	1	max	-0.073	22	1.202	4	0.327	15	0	32	0	32	0	32	0	32
1882			min	-0.362	4	0.338	23	-0.327	21	0	1	0	1	0	1	0	1
1883		2	max	-0.073	22	0.807	4	0.003	13	13.166	4	-3.388	21	1.263	15	1.263	21
1884			min	-0.362	4	0.207	23	-0.003	23	3.388	21	-13.166	4	-1.263	21	-1.263	15
1885		3	max	-0.063	23	-0.048	21	0.104	15	18.065	4	-4.652	21	1.749	23	1.749	13
1886			min	-0.367	5	-0.257	4	-0.103	21	4.652	21	-18.065	4	-1.749	13	-1.749	23
1887		4	max	-0.052	23	-0.253	21	0.003	23	14.447	4	-3.724	21	1.268	15	1.266	21
1888			min	-0.373	5	-1.037	4	-0.003	13	3.724	21	-14.447	4	-1.266	21	-1.268	15

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
1889		5	max	-0.04	23	-0.384	21	0.328	21	0	32	0	32	0	32	0	32
1890			min	-0.373	5	-1.433	4	-0.328	15	0	1	0	1	0	1	0	1
1891	M198	1	max	0.127	5	-0.058	23	0.047	5	0	32	0	32	0	32	0	32
1892			min	-0.019	23	-0.492	4	0.009	23	0	1	0	1	0	1	0	1
1893		2	max	0.127	5	-0.074	23	0.047	5	-0.374	23	2.843	4	0.213	5	-0.043	23
1894			min	-0.019	23	-0.512	4	0.009	23	-2.843	4	0.374	23	0.043	23	-0.213	5
1895		3	max	0.127	5	-0.089	23	0.047	5	-0.834	23	5.802	4	0.425	5	-0.085	23
1896			min	-0.019	23	-0.533	4	0.009	23	-5.802	4	0.834	23	0.085	23	-0.425	5
1897		4	max	0.127	5	-0.104	23	0.047	5	-1.381	23	8.876	4	0.638	5	-0.128	23
1898			min	-0.019	23	-0.553	4	0.009	23	-8.876	4	1.381	23	0.128	23	-0.638	5
1899		5	max	0.383	21	4.235	4	0.204	13	-4.008	21	17.942	4	2.231	5	-0.272	23
1900			min	-0.399	15	1.125	21	-0.116	23	-17.942	4	4.008	21	0.272	23	-2.231	5
1901	M199	1	max	0.143	13	-0.138	23	0.358	7	0	32	0	32	0	32	0	32
1902			min	-0.12	23	-0.531	4	0.064	21	0	1	0	1	0	1	0	1
1903		2	max	0.264	4	0.867	7	-0.003	21	-4.137	21	17.599	7	0.281	7	-0.044	21
1904			min	0.056	23	0.255	21	-0.015	7	-17.599	7	4.137	21	0.044	21	-0.281	7
1905		3	max	0.264	4	0.799	7	-0.003	21	-1.999	21	9.826	7	0.169	7	-0.025	21
1906			min	0.056	23	0.203	21	-0.015	7	-9.826	7	1.999	21	0.025	21	-0.169	7
1907		4	max	0.264	4	0.73	7	-0.003	21	-0.341	21	2.692	7	0.056	7	-0.006	21
1908			min	0.056	23	0.152	21	-0.015	7	-2.692	7	0.341	21	0.006	21	-0.056	7
1909		5	max	0.264	4	0.662	7	-0.003	21	3.83	4	-0.806	23	-0.012	21	0.056	7
1910			min	0.056	23	0.101	21	-0.015	7	0.806	23	-3.83	4	-0.056	7	0.012	21
1911	M200	1	max	0.424	21	1.737	4	-0.051	21	-1.054	21	3.736	4	0.531	4	-0.108	21
1912			min	-0.424	15	0.576	24	-0.249	4	-3.736	4	1.054	21	0.108	21	-0.531	4
1913		2	max	0.424	21	1.734	4	-0.051	21	-0.594	21	2.506	2	0.398	4	-0.081	21
1914			min	-0.424	15	0.574	24	-0.249	4	-2.506	2	0.594	21	0.081	21	-0.398	4
1915		3	max	0.424	21	1.732	4	-0.051	21	-0.136	21	1.35	2	0.266	4	-0.054	21
1916			min	-0.424	15	0.573	24	-0.249	4	-1.35	2	0.136	21	0.054	21	-0.266	4
1917		4	max	0.424	21	1.73	4	-0.051	21	0.698	5	0.451	19	0.133	4	-0.027	21
1918			min	-0.424	15	0.571	24	-0.249	4	-0.451	19	-0.698	5	0.027	21	-0.133	4
1919		5	max	0.424	21	1.728	4	-0.051	21	1.976	5	-0.119	23	0	32	0	32
1920			min	-0.424	15	0.569	24	-0.249	4	0.119	23	-1.976	5	0	1	0	1
1921	M201	1	max	0.248	5	3.315	7	-0.053	21	-0.592	21	7.918	7	0.365	4	-0.069	21
1922			min	-0.069	23	-0.118	21	-0.264	4	-7.918	7	0.592	21	0.069	21	-0.365	4
1923		2	max	0.248	5	3.312	7	-0.053	21	-0.687	21	5.268	7	0.224	4	-0.041	21
1924			min	-0.069	23	-0.119	21	-0.264	4	-5.268	7	0.687	21	0.041	21	-0.224	4
1925		3	max	0.248	5	3.31	7	-0.053	21	-0.675	24	2.779	4	0.084	7	-0.013	21
1926			min	-0.069	23	-0.121	21	-0.264	4	-2.779	4	0.675	24	0.013	21	-0.084	7
1927		4	max	0.248	5	3.308	7	-0.053	21	0.678	23	1.017	13	-0.009	23	0.057	4
1928			min	-0.069	23	-0.123	21	-0.264	4	-1.017	13	-0.678	23	-0.057	4	0.009	23
1929		5	max	0.248	5	3.306	7	-0.053	21	2.672	7	0.979	21	-0.041	23	0.198	4
1930			min	-0.069	23	-0.124	21	-0.264	4	-0.979	21	-2.672	7	-0.198	4	0.041	23
1931	M205	1	max	0.502	6	0.503	23	0	23	0.218	13	0.111	23	0	13	0	23
1932			min	0.041	24	-0.517	13	0	13	-0.111	23	-0.218	13	0	23	0	13
1933		2	max	0.513	6	0.503	23	0	23	3.197	19	3.176	13	0	19	0	13
1934			min	0.049	24	-0.517	13	0	13	-3.176	13	-3.197	19	0	13	0	19
1935		3	max	0.524	6	0.503	23	0	23	6.492	23	6.569	13	0.001	23	0.001	13
1936			min	0.058	24	-0.517	13	0	13	-6.569	13	-6.492	23	-0.001	13	-0.001	23
1937		4	max	0.86	7	0.554	21	-0.018	21	2.452	15	2.415	21	-0.023	21	0.144	4
1938			min	-0.555	17	-0.81	15	-0.085	4	-2.415	21	-2.452	15	-0.144	4	0.023	21
1939		5	max	0.871	7	0.554	21	-0.018	21	1.221	21	2.863	15	-0.102	21	0.515	4
1940			min	-0.543	17	-0.81	15	-0.085	4	-2.863	15	-1.221	21	-0.515	4	0.102	21
1941	M212	1	max	0	15	1.315	13	0	21	1.568	21	2.076	15	0	13	0	23
1942			min	0	21	-0.78	23	0	19	-2.076	15	-1.568	21	0	23	0	13
1943		2	max	0	15	1.313	13	0	21	2.431	21	2.507	15	0	13	0	23
1944			min	0	21	-0.782	23	0	19	-2.507	15	-2.431	21	0	23	0	13
1945		3	max	0	15	1.31	13	0	21	3.439	13	3.082	23	0	13	0	23
1946			min	0	21	-0.783	23	0	19	-3.082	23	-3.439	13	0	23	0	13

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
1947		4	max	0	15	1.308	13	0	21	4.486	13	3.709	23	0	13	0	23
1948			min	0	21	-0.785	23	0	19	-3.709	23	-4.486	13	0	23	0	13
1949		5	max	0	15	1.306	13	0	21	5.532	13	4.338	23	0	13	0	23
1950			min	0	21	-0.786	23	0	19	-4.338	23	-5.532	13	0	23	0	13
1951	M213	1	max	0.021	5	0.216	23	0.009	19	0.06	23	0.451	5	0	5	0	23
1952			min	0.013	23	-0.224	13	-0.033	5	-0.451	5	-0.06	23	0	23	0	5
1953		2	max	0.035	1	0.216	23	0.009	19	1.474	23	1.823	13	0.038	19	0.144	5
1954			min	0.022	23	-0.224	13	-0.033	5	-1.823	13	-1.474	23	-0.144	5	-0.038	19
1955		3	max	0.048	1	0.216	23	0.009	19	2.888	23	3.29	13	0.076	19	0.288	5
1956			min	0.03	23	-0.224	13	-0.033	5	-3.29	13	-2.888	23	-0.288	5	-0.076	19
1957		4	max	-0.168	23	-0.207	21	0.705	4	1.207	23	1.501	13	0.125	23	0.197	5
1958			min	-1.29	5	-2.363	7	0.134	23	-1.501	13	-1.207	23	-0.197	5	-0.125	23
1959		5	max	-0.159	23	-0.207	21	0.705	4	-2.696	21	15.487	4	2.955	4	-0.622	21
1960			min	-1.279	5	-2.363	7	0.134	23	-15.487	4	2.696	21	0.622	21	-2.955	4
1961	M216	1	max	-0.034	22	1.133	4	0.275	15	0	32	0	32	0	32	0	32
1962			min	-0.195	4	0.295	23	-0.255	21	0	1	0	1	0	1	0	1
1963		2	max	-0.025	23	0.211	4	0.076	15	10.677	4	-2.592	23	1.187	15	0.994	21
1964			min	-0.196	5	0.052	23	-0.052	21	2.592	23	-10.677	4	-0.994	21	-1.187	15
1965		3	max	-0.013	23	-0.191	21	0.091	21	6.232	4	-1.38	23	1.099	15	0.838	21
1966			min	-0.205	5	-0.741	4	-0.099	15	1.38	23	-6.232	4	-0.838	21	-1.099	15
1967		4	max	0.007	17	0.58	4	0.412	23	-1.63	21	4.892	4	1.897	13	1.772	23
1968			min	-0.008	7	0.205	21	-0.418	13	-4.892	4	1.63	21	-1.772	23	-1.897	13
1969		5	max	0.007	17	0.106	7	0.016	23	0.187	17	0.113	7	0.251	15	0.186	21
1970			min	-0.008	7	0.048	21	-0.022	13	-0.113	7	-0.187	17	-0.186	21	-0.251	15
1971	M218	1	max	0.054	1	0.499	15	0.034	17	0.729	13	0.502	23	-0.132	21	0.365	7
1972			min	0.017	7	-0.488	21	-0.005	7	-0.502	23	-0.729	13	-0.365	7	0.132	21
1973		2	max	0.067	1	0.499	15	0.034	17	2.867	15	2.567	21	-0.007	21	0.387	7
1974			min	0.028	7	-0.488	21	-0.005	7	-2.567	21	-2.867	15	-0.387	7	0.007	21
1975		3	max	0.08	1	0.499	15	0.034	17	6.14	15	5.767	21	0.118	21	0.409	7
1976			min	0.039	7	-0.488	21	-0.005	7	-5.767	21	-6.14	15	-0.409	7	-0.118	21
1977		4	max	0.627	15	0.435	17	0.816	4	2.654	19	2.437	21	0.885	7	0.032	21
1978			min	-0.456	21	-0.444	15	0.132	23	-2.437	21	-2.654	19	-0.032	21	-0.885	7
1979		5	max	0.638	15	0.435	17	0.816	4	0.46	17	0.269	15	4.367	4	-0.862	21
1980			min	-0.447	21	-0.444	15	0.132	23	-0.269	15	-0.46	17	0.862	21	-4.367	4
1981	M220	1	max	0.013	7	0.081	7	0.022	13	0.249	17	0.616	7	0.464	15	0.344	21
1982			min	-0.011	17	-0.012	17	-0.016	23	-0.616	7	-0.249	17	-0.344	21	-0.464	15
1983		2	max	0.013	7	0.028	7	0.384	15	0.34	5	0.494	1	3.67	15	3.44	21
1984			min	-0.011	17	-0.071	1	-0.377	21	-0.494	1	-0.34	5	-3.44	21	-3.67	15
1985		3	max	0.015	5	0.05	1	0.305	21	0.706	5	-0.22	23	3.4	13	2.778	23
1986			min	-0.004	19	0.031	21	-0.323	15	0.22	23	-0.706	5	-2.778	23	-3.4	13
1987		4	max	0.015	5	-0.006	23	0.081	23	0.808	5	-0.451	23	5.119	13	4.808	23
1988			min	-0.004	19	-0.02	5	-0.099	13	0.451	23	-0.808	5	-4.808	23	-5.119	13
1989		5	max	0.015	5	-0.046	23	0.477	23	0	32	0	32	0	32	0	32
1990			min	-0.004	19	-0.073	5	-0.495	13	0	1	0	1	0	1	0	1
1991	M223	1	max	2.1	7	0.449	22	1.06	15	6.787	24	14.24	14	6.284	21	14.121	15
1992			min	0.276	21	-0.566	16	-0.446	21	-14.24	14	-6.787	24	-14.121	15	-6.284	21
1993		2	max	2.076	7	0.449	22	1.06	15	2.276	24	12.707	6	2.402	21	4.885	15
1994			min	0.257	21	-0.566	16	-0.446	21	-12.707	6	-2.276	24	-4.885	15	-2.402	21
1995		3	max	2.052	7	0.449	22	1.06	15	-2.234	21	12.044	4	4.352	15	1.479	21
1996			min	0.239	21	-0.566	16	-0.446	21	-12.044	4	2.234	21	-1.479	21	-4.352	15
1997		4	max	1.099	7	0.118	6	0.073	23	0.794	3	3.499	7	1.023	15	0.281	21
1998			min	-0.021	21	-0.17	20	-0.222	13	-3.499	7	-0.794	3	-0.281	21	-1.023	15
1999		5	max	1.075	7	0.118	6	0.073	23	0.919	18	3.31	8	1.394	23	1.952	13
2000			min	-0.039	21	-0.17	20	-0.222	13	-3.31	8	-0.919	18	-1.952	13	-1.394	23
2001	M224	1	max	0.024	21	0.247	7	0.036	3	0	32	0	32	0	32	0	32
2002			min	-0.876	7	0.039	21	-0.319	6	0	1	0	1	0	1	0	1
2003		2	max	0.033	21	0.247	7	0.036	3	0.975	7	-0.155	21	0.144	3	1.26	6
2004			min	-0.864	7	0.039	21	-0.319	6	0.155	21	-0.975	7	-1.26	6	-0.144	3

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
2005		3	max	0.041	21	0.247	7	0.036	3	1.95	7	-0.309	21	0.288	3	2.52	6
2006			min	-0.853	7	0.039	21	-0.319	6	0.309	21	-1.95	7	-2.52	6	-0.288	3
2007		4	max	0.257	5	0.739	15	0.23	18	1.185	21	2.918	15	1.965	8	0.908	18
2008			min	-0.241	19	-0.3	21	-0.497	8	-2.918	15	-1.185	21	-0.908	18	-1.965	8
2009		5	max	0.269	5	0.739	15	0.23	18	0	32	0	32	0	32	0	32
2010			min	-0.229	19	-0.3	21	-0.497	8	0	1	0	1	0	1	0	1
2011	M225	1	max	0.475	5	0.168	13	0.393	23	1.331	24	2.064	6	8.298	21	8.848	15
2012			min	-0.015	23	-0.134	23	-1.08	13	-2.064	6	-1.331	24	-8.848	15	-8.298	21
2013		2	max	0.475	5	0.168	13	0.592	23	2.009	24	2.431	14	2.848	21	6.188	15
2014			min	-0.015	23	-0.134	23	-0.682	13	-2.431	14	-2.009	24	-6.188	15	-2.848	21
2015		3	max	0.475	5	0.168	13	0.968	15	1.971	21	2.088	15	-0.071	23	1.896	5
2016			min	-0.015	23	-0.134	23	-0.461	21	-2.088	15	-1.971	21	-1.896	5	0.071	23
2017		4	max	0.475	5	0.241	14	1.366	15	3.433	13	3.245	23	7.705	15	3.776	21
2018			min	-0.015	23	-0.207	24	-0.263	21	-3.245	23	-3.433	13	-3.776	21	-7.705	15
2019		5	max	0.55	21	0.497	8	-0.337	23	7.571	13	6.764	23	0.429	21	0.605	15
2020			min	-0.807	15	-0.23	18	-3.502	5	-6.764	23	-7.571	13	-0.605	15	-0.429	21
2021	M229	1	max	1.343	5	0.725	14	0.386	23	7.583	24	13.514	14	5.071	21	15.367	15
2022			min	0.165	23	-0.608	24	-0.982	13	-13.514	14	-7.583	24	-15.367	15	-5.071	21
2023		2	max	0.934	5	0.59	14	0.386	23	3.034	24	8.723	6	1.969	21	6.184	15
2024			min	0.007	23	-0.474	24	-0.982	13	-8.723	6	-3.034	24	-6.184	15	-1.969	21
2025		3	max	0.553	13	0.322	14	0.386	23	0.637	24	6.128	6	2.998	15	1.134	21
2026			min	-0.15	23	-0.206	24	-0.982	13	-6.128	6	-0.637	24	-1.134	21	-2.998	15
2027		4	max	0.329	5	0.264	6	0.37	23	0.009	23	3.224	5	2.336	19	2.356	13
2028			min	-0.094	23	-0.122	24	-0.486	13	-3.224	5	-0.009	23	-2.356	13	-2.336	19
2029		5	max	0.101	5	0.159	6	0.28	19	0.222	23	1.077	5	2.899	15	1.988	21
2030			min	-0.097	19	-0.01	24	-0.259	21	-1.077	5	-0.222	23	-1.988	21	-2.899	15
2031	M226	1	max	0.234	21	0.015	24	0.513	19	3.79	5	0.866	23	5.187	21	7.565	15
2032			min	-0.253	19	-0.247	6	-0.537	5	-0.866	23	-3.79	5	-7.565	15	-5.187	21
2033		2	max	0.234	21	-0.02	21	0.564	19	2.312	13	1.522	23	2.153	21	4.133	15
2034			min	-0.253	19	-0.23	7	-0.403	21	-1.522	23	-2.312	13	-4.133	15	-2.153	21
2035		3	max	0.234	21	0.005	22	0.689	15	1.785	21	2.472	15	0.607	19	1.274	5
2036			min	-0.253	19	-0.242	8	-0.365	21	-2.472	15	-1.785	21	-1.274	5	-0.607	19
2037		4	max	0.234	21	0.062	22	0.935	7	1.606	21	3.967	7	5.753	15	3.082	21
2038			min	-0.253	19	-0.271	8	-0.326	21	-3.967	7	-1.606	21	-3.082	21	-5.753	15
2039		5	max	0.433	13	0.036	3	-0.08	21	3.848	21	5.499	15	0.114	23	0.223	13
2040			min	-0.314	23	-0.319	6	-4.42	7	-5.499	15	-3.848	21	-0.223	13	-0.114	23
2041	M227	1	max	0	32	0.648	15	-0.119	22	4.532	21	5.567	15	11.111	8	2.182	22
2042			min	0	1	-0.634	21	-1.554	8	-5.567	15	-4.532	21	-2.182	22	-11.111	8
2043		2	max	0	32	0.362	15	-0.041	22	4.081	23	4.856	13	0.776	24	8.613	6
2044			min	0	1	-0.348	21	-0.872	8	-4.856	13	-4.081	23	-8.613	6	-0.776	24
2045		3	max	0	32	0.076	15	0.037	22	7.982	23	8.498	13	-0.624	24	15.665	6
2046			min	0	1	-0.062	21	-0.191	8	-8.498	13	-7.982	23	-15.665	6	0.624	24
2047		4	max	0	32	0.231	13	0.538	6	6.621	23	6.879	13	-0.883	24	12.794	6
2048			min	0	1	-0.217	23	0.021	24	-6.879	13	-6.621	23	-12.794	6	0.883	24
2049		5	max	0	32	0.517	13	1.219	6	0	32	0	32	0	32	0	32
2050			min	0	1	-0.503	23	0.1	24	0	1	0	1	0	1	0	1
2051	M228	1	max	0	32	0.654	15	-0.914	22	5.722	21	6.034	15	24.951	4	-6.27	22
2052			min	0	1	-0.65	21	-2.837	4	-6.034	15	-5.722	21	6.27	22	-24.951	4
2053		2	max	0	32	0.368	15	-0.511	22	3.466	23	3.699	13	0.033	24	8.229	6
2054			min	0	1	-0.364	21	-1.633	4	-3.699	13	-3.466	23	-8.229	6	-0.033	24
2055		3	max	0	32	0.082	15	-0.108	22	7.571	23	7.727	13	-5.845	24	22.597	4
2056			min	0	1	-0.078	21	-0.428	4	-7.727	13	-7.571	23	-22.597	4	5.845	24
2057		4	max	0	32	0.21	13	0.776	4	6.416	23	6.494	13	-5.856	24	20.067	4
2058			min	0	1	-0.206	23	0.201	24	-6.494	13	-6.416	23	-20.067	4	5.856	24
2059		5	max	0	32	0.496	13	1.98	4	0	32	0	32	0	32	0	32
2060			min	0	1	-0.492	23	0.604	24	0	1	0	1	0	1	0	1
2061	M221	1	max	0.323	17	0.004	3	0.18	4	0	32	0	32	0	32	0	32
2062			min	-0.036	23	-0.014	7	0.031	23	0	1	0	1	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
2063		2	max	0.306	17	0.004	3	0.18	4	0.035	3	0.117	7	1.197	4	-0.207	23
2064			min	-0.049	23	-0.014	7	0.031	23	-0.117	7	-0.035	3	0.207	23	-1.197	4
2065		3	max	0.288	17	0.004	3	0.18	4	0.071	3	0.233	7	2.394	4	-0.414	23
2066			min	-0.062	15	-0.014	7	0.031	23	-0.233	7	-0.071	3	0.414	23	-2.394	4
2067		4	max	0.822	5	0.064	19	0.18	4	0.106	3	0.35	7	3.59	4	-0.622	23
2068			min	-0.345	23	-0.056	13	-0.001	23	-0.35	7	-0.106	3	0.622	23	-3.59	4
2069		5	max	0.693	5	1.014	15	0.752	5	0.002	5	0	23	0	23	0.002	5
2070			min	0.097	23	-0.946	21	-0.163	23	0	23	-0.002	5	-0.002	5	0	23
2071	M222	1	max	4.946	4	-0.111	23	-0.028	23	0	32	0	32	0	32	0	32
2072			min	1.168	21	-0.67	4	-0.132	4	0	1	0	1	0	1	0	1
2073		2	max	4.929	4	-0.111	23	-0.028	23	-0.93	23	5.63	4	-0.184	23	0.878	4
2074			min	1.154	21	-0.67	4	-0.132	4	-5.63	4	0.93	23	-0.878	4	0.184	23
2075		3	max	4.911	4	-0.111	23	-0.028	23	-1.859	23	11.261	4	-0.369	23	1.756	4
2076			min	1.141	21	-0.67	4	-0.132	4	-11.261	4	1.859	23	-1.756	4	0.369	23
2077		4	max	4.894	4	1.246	5	-0.003	23	-2.789	23	16.891	4	-0.553	23	2.634	4
2078			min	1.128	21	0.119	23	-0.015	5	-16.891	4	2.789	23	-2.634	4	0.553	23
2079		5	max	1.348	7	0.435	21	-0.093	23	0.002	7	0	21	0	7	0	21
2080			min	0.224	21	-1.366	7	-0.535	4	0	21	-0.002	7	0	21	0	7
2081	M230	1	max	0.209	4	-0.275	21	0.027	7	0	32	0	32	0	32	0	32
2082			min	0.034	23	-1.265	4	0.004	21	0	1	0	1	0	1	0	1
2083		2	max	0.209	4	-0.286	21	0.027	7	-1.119	21	5.079	4	0.087	7	-0.011	21
2084			min	0.034	23	-1.28	4	0.004	21	-5.079	4	1.119	21	0.011	21	-0.087	7
2085		3	max	0.209	4	-0.297	21	0.027	7	-2.282	21	10.216	4	0.173	7	-0.022	21
2086			min	0.034	23	-1.294	4	0.004	21	-10.216	4	2.282	21	0.022	21	-0.173	7
2087		4	max	0.209	4	-0.307	21	0.027	7	-3.487	21	15.41	4	0.26	7	-0.033	21
2088			min	0.034	23	-1.308	4	0.004	21	-15.41	4	3.487	21	0.033	21	-0.26	7
2089		5	max	1.309	5	2.707	7	0.437	5	-3.333	23	18.534	4	1.506	4	-0.333	23
2090			min	0.167	23	0.532	21	0.048	23	-18.534	4	3.333	23	0.333	23	-1.506	4
2091	M217	1	max	0.58	21	0.807	17	0.955	5	1.802	13	1.804	19	1.421	23	2.202	13
2092			min	-0.621	15	-0.851	15	-0.228	23	-1.804	19	-1.802	13	-2.202	13	-1.421	23
2093		2	max	0.58	21	0.804	17	0.955	5	2.402	13	2.441	19	1.297	23	1.782	13
2094			min	-0.621	15	-0.853	15	-0.228	23	-2.441	19	-2.402	13	-1.782	13	-1.297	23
2095		3	max	0.58	21	0.802	17	0.955	5	3.017	21	3.084	15	1.174	23	1.363	13
2096			min	-0.621	15	-0.855	15	-0.228	23	-3.084	15	-3.017	21	-1.363	13	-1.174	23
2097		4	max	0.58	21	0.8	17	0.955	5	3.666	21	3.78	15	1.086	15	0.978	21
2098			min	-0.621	15	-0.857	15	-0.228	23	-3.78	15	-3.666	21	-0.978	21	-1.086	15
2099		5	max	0.58	21	0.798	17	0.955	5	4.315	21	4.477	15	1.096	15	0.692	21
2100			min	-0.621	15	-0.859	15	-0.228	23	-4.477	15	-4.315	21	-0.692	21	-1.096	15
2101	M219	1	max	-0.001	21	2.084	5	0.19	21	0.977	21	1.955	15	0.88	7	0.282	21
2102			min	-1.606	7	0.325	23	-0.322	15	-1.955	15	-0.977	21	-0.282	21	-0.88	7
2103		2	max	-0.001	21	2.082	5	0.19	21	1.711	13	1.349	23	0.74	7	0.18	21
2104			min	-1.606	7	0.323	23	-0.322	15	-1.349	23	-1.711	13	-0.18	21	-0.74	7
2105		3	max	-0.001	21	2.08	5	0.19	21	2.961	5	1.089	23	0.599	7	0.078	21
2106			min	-1.606	7	0.322	23	-0.322	15	-1.089	23	-2.961	5	-0.078	21	-0.599	7
2107		4	max	-0.001	21	2.078	5	0.19	21	4.638	5	0.83	23	0.459	7	-0.024	21
2108			min	-1.606	7	0.32	23	-0.322	15	-0.83	23	-4.638	5	0.024	21	-0.459	7
2109		5	max	-0.001	21	2.076	5	0.19	21	6.313	5	0.573	23	0.371	5	-0.023	23
2110			min	-1.606	7	0.318	23	-0.322	15	-0.573	23	-6.313	5	0.023	23	-0.371	5
2111	M232	1	max	0.024	7	0.007	23	0.029	7	0.47	15	0.402	21	0.135	17	0.334	7
2112			min	-0.003	17	-0.01	13	-0.023	17	-0.402	21	-0.47	15	-0.334	7	-0.135	17
2113		2	max	0.035	7	0.007	23	0.029	7	0.506	15	0.457	21	0.032	17	0.209	7
2114			min	0.006	21	-0.01	13	-0.023	17	-0.457	21	-0.506	15	-0.209	7	-0.032	17
2115		3	max	0.046	7	0.007	23	0.029	7	0.543	15	0.513	21	-0.047	24	0.09	4
2116			min	0.014	21	-0.01	13	-0.023	17	-0.513	21	-0.543	15	-0.09	4	0.047	24
2117		4	max	0.058	7	0.007	23	0.029	7	0.584	19	0.571	13	0.041	7	0.176	3
2118			min	0.023	21	-0.01	13	-0.023	17	-0.571	13	-0.584	19	-0.176	3	-0.041	7
2119		5	max	0.069	7	0.007	23	0.029	7	0.628	19	0.636	13	0.166	7	0.276	17
2120			min	0.031	21	-0.01	13	-0.023	17	-0.636	13	-0.628	19	-0.276	17	-0.166	7

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
2121	M233	1	max	0.033	5	1.374	4	0.027	21	0	32	0	32	0	32	0	32
2122			min	-0.001	23	0.309	21	-0.147	7	0	1	0	1	0	1	0	1
2123		2	max	0.033	5	1.316	4	0.027	21	12.595	4	-2.758	21	0.254	21	1.375	7
2124			min	-0.001	23	0.28	21	-0.147	7	2.758	21	-12.595	4	-1.375	7	-0.254	21
2125		3	max	0.033	5	0.45	4	0.178	13	14.76	4	-3.223	23	1.75	21	2.196	15
2126			min	-0.001	23	0.092	21	-0.133	23	3.223	23	-14.76	4	-2.196	15	-1.75	21
2127		4	max	0.033	5	-0.216	23	0.189	15	10.686	4	-2.346	23	1.53	21	1.766	15
2128			min	-0.001	23	-1.067	4	-0.163	21	2.346	23	-10.686	4	-1.766	15	-1.53	21
2129		5	max	0.033	5	-0.244	23	0.189	15	0	32	0	32	0	32	0	32
2130			min	-0.001	23	-1.126	4	-0.163	21	0	1	0	1	0	1	0	1
2131	M234	1	max	0	21	1.345	4	0	22	0	32	0	32	0	32	0	32
2132			min	0	7	0.284	21	0	16	0	1	0	1	0	1	0	1
2133		2	max	0	21	1.011	4	0	22	5.985	4	-1.128	21	0	22	0	16
2134			min	0	7	0.166	21	0	16	1.128	21	-5.985	4	0	16	0	22
2135		3	max	0	7	0.489	4	0	22	9.826	4	-1.664	21	0	23	0	13
2136			min	0	21	0.048	21	0	16	1.664	21	-9.826	4	0	13	0	23
2137		4	max	0	7	-0.166	23	0	13	6.924	5	-1.128	23	0	23	0	13
2138			min	0	21	-0.949	5	0	23	1.128	23	-6.924	5	0	13	0	23
2139		5	max	0	7	-0.284	23	0	13	0	32	0	32	0	32	0	32
2140			min	0	21	-1.844	5	0	23	0	1	0	1	0	1	0	1
2141	M235	1	max	0.083	5	0.827	4	0.241	13	0	32	0	32	0	32	0	32
2142			min	0.009	23	0.192	23	-0.241	23	0	1	0	1	0	1	0	1
2143		2	max	0.083	5	0.761	4	0.241	13	10.804	4	-2.509	21	2.528	13	2.527	23
2144			min	0.009	23	0.16	23	-0.241	23	2.509	21	-10.804	4	-2.527	23	-2.528	13
2145		3	max	0.083	5	-0.087	21	0.074	15	14.256	4	-3.275	21	3.312	21	3.312	15
2146			min	0.009	23	-0.463	4	-0.074	21	3.275	21	-14.256	4	-3.312	15	-3.312	21
2147		4	max	0.083	5	-0.215	21	0.241	23	11.12	4	-2.418	21	2.531	13	2.531	23
2148			min	0.009	23	-1.028	4	-0.241	13	2.418	21	-11.12	4	-2.531	23	-2.531	13
2149		5	max	0.083	5	-0.247	21	0.241	23	0	32	0	32	0	32	0	32
2150			min	0.009	23	-1.094	4	-0.241	13	0	1	0	1	0	1	0	1
2151	M236	1	max	0.176	5	0.435	4	0.311	13	0	32	0	32	0	32	0	32
2152			min	0.02	23	0.122	21	-0.31	23	0	1	0	1	0	1	0	1
2153		2	max	0.176	5	0.089	3	0.086	21	10.921	4	-2.926	23	4.101	13	4.094	23
2154			min	0.02	23	-0.052	5	-0.09	15	2.926	23	-10.921	4	-4.094	23	-4.101	13
2155		3	max	0.176	5	-0.089	23	0.066	15	14.053	4	-3.75	23	5.228	21	5.277	15
2156			min	0.02	23	-0.425	4	-0.048	21	3.75	23	-14.053	4	-5.277	15	-5.228	21
2157		4	max	0.176	5	-0.177	23	0.339	23	10.504	4	-2.601	23	4.659	13	4.475	23
2158			min	0.02	23	-0.755	4	-0.353	13	2.601	23	-10.504	4	-4.475	23	-4.659	13
2159		5	max	0.176	5	-0.217	23	0.339	23	0	32	0	32	0	32	0	32
2160			min	0.02	23	-0.837	4	-0.353	13	0	1	0	1	0	1	0	1
2161	M237	1	max	0.078	23	0.5	4	0	32	0	32	0	32	0	32	0	32
2162			min	-0.078	13	0.096	23	0	1	0	1	0	1	0	1	0	1
2163		2	max	0.078	23	0.25	4	0	32	1.641	4	-0.316	23	0	32	0	32
2164			min	-0.078	13	0.048	23	0	1	0.316	23	-1.641	4	0	1	0	1
2165		3	max	0.078	23	0	32	0	32	2.188	4	-0.421	23	0	32	0	32
2166			min	-0.078	13	0	1	0	1	0.421	23	-2.188	4	0	1	0	1
2167		4	max	0.078	23	-0.048	21	0	32	1.641	4	-0.316	23	0	32	0	32
2168			min	-0.078	13	-0.25	5	0	1	0.316	23	-1.641	4	0	1	0	1
2169		5	max	0.078	23	-0.096	21	0	32	0	32	0	32	0	32	0	32
2170			min	-0.078	13	-0.5	5	0	1	0	1	0	1	0	1	0	1
2171	M238	1	max	0.07	15	0.553	8	0	32	0	32	0	32	0	32	0	32
2172			min	-0.07	21	0.106	21	0	1	0	1	0	1	0	1	0	1
2173		2	max	0.07	15	0.276	8	0	32	2.006	8	-0.386	32	0	32	0	32
2174			min	-0.07	21	0.053	21	0	1	0.386	21	-2.006	4	0	1	0	1
2175		3	max	0.07	15	0	32	0	32	2.675	8	-0.515	32	0	32	0	32
2176			min	-0.07	21	0	1	0	1	0.515	21	-2.675	4	0	1	0	1
2177		4	max	0.07	15	-0.053	32	0	32	2.006	8	-0.386	32	0	32	0	32
2178			min	-0.07	21	-0.276	4	0	1	0.386	21	-2.006	4	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
2179		5	max	0.07	15	-0.106	32	0	32	0	32	0	32	0	32	0	32
2180			min	-0.07	21	-0.553	4	0	1	0	1	0	1	0	1	0	1
2181	M239	1	max	0.078	23	0.606	8	0	32	0	32	0	32	0	32	0	32
2182			min	-0.078	13	0.117	21	0	1	0	1	0	1	0	1	0	1
2183		2	max	0.078	23	0.303	8	0	32	2.409	8	-0.464	32	0	32	0	32
2184			min	-0.078	13	0.058	21	0	1	0.464	21	-2.409	4	0	1	0	1
2185		3	max	0.078	23	0	32	0	32	3.212	8	-0.618	32	0	32	0	32
2186			min	-0.078	13	0	1	0	1	0.618	21	-3.212	4	0	1	0	1
2187		4	max	0.078	23	-0.058	32	0	32	2.409	8	-0.464	32	0	32	0	32
2188			min	-0.078	13	-0.303	4	0	1	0.464	21	-2.409	4	0	1	0	1
2189		5	max	0.078	23	-0.117	32	0	32	0	32	0	32	0	32	0	32
2190			min	-0.078	13	-0.606	4	0	1	0	1	0	1	0	1	0	1
2191	M240	1	max	0.067	15	0.706	8	0	32	0	32	0	32	0	32	0	32
2192			min	-0.065	21	0.136	21	0	1	0	1	0	1	0	1	0	1
2193		2	max	0.067	15	0.353	8	0	32	3.27	8	-0.629	32	0	32	0	32
2194			min	-0.065	21	0.068	21	0	1	0.629	21	-3.27	4	0	1	0	1
2195		3	max	0.067	15	0	32	0	32	4.359	8	-0.839	32	0	32	0	32
2196			min	-0.065	21	0	1	0	1	0.839	21	-4.359	4	0	1	0	1
2197		4	max	0.067	15	-0.068	32	0	32	3.27	8	-0.629	32	0	32	0	32
2198			min	-0.065	21	-0.353	4	0	1	0.629	21	-3.27	4	0	1	0	1
2199		5	max	0.067	15	-0.136	32	0	32	0	32	0	32	0	32	0	32
2200			min	-0.065	21	-0.706	4	0	1	0	1	0	1	0	1	0	1
2201	M241	1	max	0.079	23	0.753	8	0	32	0	32	0	32	0	32	0	32
2202			min	-0.09	13	0.145	21	0	1	0	1	0	1	0	1	0	1
2203		2	max	0.079	23	0.376	8	0	32	3.72	8	-0.716	23	0	32	0	32
2204			min	-0.09	13	0.072	23	0	1	0.716	23	-3.72	4	0	1	0	1
2205		3	max	0.079	23	0	32	0	32	4.961	8	-0.955	23	0	32	0	32
2206			min	-0.09	13	0	1	0	1	0.955	23	-4.961	4	0	1	0	1
2207		4	max	0.079	23	-0.072	32	0	32	3.72	8	-0.716	23	0	32	0	32
2208			min	-0.09	13	-0.376	4	0	1	0.716	23	-3.72	4	0	1	0	1
2209		5	max	0.079	23	-0.145	32	0	32	0	32	0	32	0	32	0	32
2210			min	-0.09	13	-0.753	4	0	1	0	1	0	1	0	1	0	1
2211	M245	1	max	0.092	5	0.513	8	0	32	0	32	0	32	0	32	0	32
2212			min	-0.021	23	0.101	21	0	1	0	1	0	1	0	1	0	1
2213		2	max	0.092	5	0.256	8	0	32	2.958	8	-0.585	32	0	32	0	32
2214			min	-0.021	23	0.051	21	0	1	0.585	21	-2.958	4	0	1	0	1
2215		3	max	0.092	5	0	32	0	32	3.945	8	-0.78	32	0	32	0	32
2216			min	-0.021	23	0	1	0	1	0.78	21	-3.945	4	0	1	0	1
2217		4	max	0.092	5	-0.051	32	0	32	2.958	8	-0.585	32	0	32	0	32
2218			min	-0.021	23	-0.256	4	0	1	0.585	21	-2.958	4	0	1	0	1
2219		5	max	0.092	5	-0.101	32	0	32	0	32	0	32	0	32	0	32
2220			min	-0.021	23	-0.513	4	0	1	0	1	0	1	0	1	0	1
2221	M246	1	max	0.104	23	0.381	4	0	32	0	32	0	32	0	32	0	32
2222			min	-0.106	13	0.073	23	0	1	0	1	0	1	0	1	0	1
2223		2	max	0.104	23	0.19	4	0	32	0.951	4	-0.183	32	0	32	0	32
2224			min	-0.106	13	0.037	23	0	1	0.183	22	-0.951	4	0	1	0	1
2225		3	max	0.104	23	0	32	0	32	1.268	4	-0.244	23	0	32	0	32
2226			min	-0.106	13	0	1	0	1	0.244	23	-1.268	4	0	1	0	1
2227		4	max	0.104	23	-0.037	21	0	32	0.951	8	-0.183	32	0	32	0	32
2228			min	-0.106	13	-0.19	5	0	1	0.183	22	-0.951	4	0	1	0	1
2229		5	max	0.104	23	-0.073	32	0	32	0	32	0	32	0	32	0	32
2230			min	-0.106	13	-0.381	5	0	1	0	1	0	1	0	1	0	1
2231	M247	1	max	0.073	15	0.314	5	0	32	0	32	0	32	0	32	0	32
2232			min	-0.062	21	0.06	23	0	1	0	1	0	1	0	1	0	1
2233		2	max	0.073	15	0.157	5	0	32	0.647	5	-0.125	23	0	32	0	32
2234			min	-0.062	21	0.03	23	0	1	0.125	23	-0.647	4	0	1	0	1
2235		3	max	0.073	15	0	32	0	32	0.863	5	-0.166	23	0	32	0	32
2236			min	-0.062	21	0	1	0	1	0.166	23	-0.863	4	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
2237		4	max	0.073	15	-0.03	21	0	32	0.647	8	-0.125	23	0	32	0	32
2238			min	-0.062	21	-0.157	7	0	1	0.125	23	-0.647	4	0	1	0	1
2239		5	max	0.073	15	-0.06	21	0	32	0	32	0	32	0	32	0	32
2240			min	-0.062	21	-0.314	7	0	1	0	1	0	1	0	1	0	1
2241	M248	1	max	0.131	23	0.248	7	0	32	0	32	0	32	0	32	0	32
2242			min	-0.145	13	0.048	21	0	1	0	1	0	1	0	1	0	1
2243		2	max	0.131	23	0.124	7	0	32	0.402	8	-0.077	21	0	32	0	32
2244			min	-0.145	13	0.024	21	0	1	0.077	21	-0.402	6	0	1	0	1
2245		3	max	0.131	23	0	32	0	32	0.537	7	-0.103	21	0	32	0	32
2246			min	-0.145	13	0	1	0	1	0.103	21	-0.537	7	0	1	0	1
2247		4	max	0.131	23	-0.024	23	0	32	0.402	7	-0.077	21	0	32	0	32
2248			min	-0.145	13	-0.124	4	0	1	0.077	21	-0.402	7	0	1	0	1
2249		5	max	0.131	23	-0.048	23	0	32	0	32	0	32	0	32	0	32
2250			min	-0.145	13	-0.248	4	0	1	0	1	0	1	0	1	0	1
2251	M249	1	max	5.689	7	0.16	5	0.087	4	0	32	0	32	0	32	0	32
2252			min	0.939	21	0.018	23	0.018	21	0	1	0	1	0	1	0	1
2253		2	max	5.676	7	0.16	5	0.087	4	1.51	5	-0.172	23	0.819	4	-0.168	21
2254			min	0.929	21	0.018	23	0.018	21	0.172	23	-1.51	5	0.168	21	-0.819	4
2255		3	max	5.663	7	0.16	5	0.087	4	3.02	5	-0.343	23	1.638	4	-0.336	21
2256			min	0.919	21	0.018	23	0.018	21	0.343	23	-3.02	5	0.336	21	-1.638	4
2257		4	max	5.65	7	0.16	5	0.087	4	4.53	5	-0.515	23	2.457	4	-0.503	21
2258			min	0.909	21	0.018	23	0.018	21	0.515	23	-4.53	5	0.503	21	-2.457	4
2259		5	max	5.636	7	0.16	5	0.087	4	6.04	5	-0.686	23	3.276	4	-0.671	21
2260			min	0.899	21	0.018	23	0.018	21	0.686	23	-6.04	5	0.671	21	-3.276	4
2261	M250	1	max	0.203	13	1.549	4	-0.024	23	-4.354	21	19.039	4	2.231	5	-0.272	23
2262			min	-0.203	23	0.351	21	-0.199	5	-19.039	4	4.354	21	0.272	23	-2.231	5
2263		2	max	0.203	13	1.404	4	-0.024	23	-3.166	21	13.828	4	1.673	5	-0.204	23
2264			min	-0.203	23	0.322	21	-0.199	5	-13.828	4	3.166	21	0.204	23	-1.673	5
2265		3	max	0.203	13	1.259	4	-0.024	23	-2.081	21	9.127	4	1.115	5	-0.136	23
2266			min	-0.203	23	0.293	21	-0.199	5	-9.127	4	2.081	21	0.136	23	-1.115	5
2267		4	max	0.203	13	1.115	4	-0.024	23	-1.1	21	4.937	4	0.558	5	-0.068	23
2268			min	-0.203	23	0.263	21	-0.199	5	-4.937	4	1.1	21	0.068	23	-0.558	5
2269		5	max	0.203	13	0.97	4	-0.024	23	-0.222	21	1.261	7	0	32	0	32
2270			min	-0.203	23	0.234	21	-0.199	5	-1.261	7	0.222	21	0	1	0	1
2271	M251	1	max	0.032	13	0.465	23	-0.016	21	0.164	7	0.157	17	0.311	23	0.353	13
2272			min	-0.035	19	-1.245	5	-0.116	4	-0.157	17	-0.164	7	-0.353	13	-0.311	23
2273		2	max	-0.001	21	-0.574	21	0.016	19	-3.404	23	18.547	4	1.143	5	0.078	23
2274			min	-0.092	7	-3.924	7	-0.018	21	-18.547	4	3.404	23	-0.078	23	-1.143	5
2275		3	max	0.01	21	1.42	4	0.002	23	-3.705	21	17.677	4	0.835	5	0.023	23
2276			min	-0.054	7	0.277	21	-0.072	5	-17.677	4	3.705	21	-0.023	23	-0.835	5
2277		4	max	0.01	21	1.146	4	0.002	23	-1.816	22	8.243	4	0.418	5	0.011	23
2278			min	-0.054	7	0.236	21	-0.072	5	-8.243	4	1.816	22	-0.011	23	-0.418	5
2279		5	max	0.01	21	0.872	4	0.002	23	-0.221	23	0.821	4	0	32	0	32
2280			min	-0.054	7	0.196	21	-0.072	5	-0.821	4	0.221	23	0	1	0	1
2281	M252	1	max	0.149	21	2.092	4	-0.021	23	-7.057	23	32.564	4	1.757	5	-0.349	23
2282			min	-0.158	15	0.45	23	-0.107	5	-32.564	4	7.057	23	0.349	23	-1.757	5
2283		2	max	0.149	21	1.879	4	-0.021	23	-4.831	23	22.242	4	1.317	5	-0.261	23
2284			min	-0.158	15	0.407	23	-0.107	5	-22.242	4	4.831	23	0.261	23	-1.317	5
2285		3	max	0.149	21	1.666	4	-0.021	23	-2.829	23	13.028	4	0.878	5	-0.174	23
2286			min	-0.158	15	0.363	23	-0.107	5	-13.028	4	2.829	23	0.174	23	-0.878	5
2287		4	max	0.149	21	1.453	4	-0.021	23	-1.053	23	4.921	4	0.439	5	-0.087	23
2288			min	-0.158	15	0.32	23	-0.107	5	-4.921	4	1.053	23	0.087	23	-0.439	5
2289		5	max	0.149	21	1.24	4	-0.021	23	2.079	4	-0.45	21	0	32	0	32
2290			min	-0.158	15	0.277	23	-0.107	5	0.45	21	-2.079	4	0	1	0	1
2291	M253	1	max	0	32	0.999	8	0	32	0	32	0	32	0	32	0	32
2292			min	0	1	0.131	23	0	1	0	1	0	1	0	1	0	1
2293		2	max	0	32	0.499	8	0	32	1.487	8	-0.195	23	0	32	0	32
2294			min	0	1	0.066	23	0	1	0.195	23	-1.487	4	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
2295		3	max	0	32	0	32	0	32	1.983	8	-0.26	23	0	32	0	32
2296			min	0	1	0	1	0	1	0.26	23	-1.983	4	0	1	0	1
2297		4	max	0	32	-0.066	32	0	32	1.487	8	-0.195	32	0	32	0	32
2298			min	0	1	-0.499	4	0	1	0.195	21	-1.487	4	0	1	0	1
2299		5	max	0	32	-0.131	32	0	32	0	32	0	32	0	32	0	32
2300			min	0	1	-0.998	4	0	1	0	1	0	1	0	1	0	1
2301	M255	1	max	0.65	7	0.147	5	-0.21	23	0	32	0	32	0	32	0	32
2302			min	0.088	21	0.029	23	-0.998	4	0	1	0	1	0	1	0	1
2303		2	max	0.654	7	0.147	5	-0.21	23	0.463	5	-0.091	23	-0.663	23	3.143	4
2304			min	0.092	21	0.029	23	-0.998	4	0.091	23	-0.463	5	-3.143	4	0.663	23
2305		3	max	0.659	7	0.147	5	-0.21	23	0.925	5	-0.182	23	-1.325	23	6.286	4
2306			min	0.095	21	0.029	23	-0.998	4	0.182	23	-0.925	5	-6.286	4	1.325	23
2307		4	max	0.663	7	0.147	5	-0.21	23	1.387	5	-0.272	23	-1.988	23	9.429	4
2308			min	0.098	21	0.029	23	-0.998	4	0.272	23	-1.387	5	-9.429	4	1.988	23
2309		5	max	0.668	7	0.147	5	-0.21	23	1.849	5	-0.363	23	-2.651	23	12.573	4
2310			min	0.102	21	0.029	23	-0.998	4	0.363	23	-1.849	5	-12.573	4	2.651	23
2311	M256	1	max	8.128	5	0.078	1	0	32	0	32	0	32	0	32	0	32
2312			min	1.42	23	0.05	29	0	1	0	1	0	1	0	1	0	1
2313		2	max	8.124	5	0.039	1	0	32	0.661	1	-0.425	32	0	32	0	32
2314			min	1.417	23	0.025	29	0	1	0.425	29	-0.661	1	0	1	0	1
2315		3	max	8.12	5	0	32	0	32	0.881	1	-0.566	32	0	32	0	32
2316			min	1.414	23	0	1	0	1	0.566	29	-0.881	1	0	1	0	1
2317		4	max	8.115	5	-0.025	24	0	32	0.661	1	-0.425	32	0	32	0	32
2318			min	1.41	23	-0.039	1	0	1	0.425	29	-0.661	1	0	1	0	1
2319		5	max	8.111	5	-0.05	24	0	32	0	32	0	32	0	32	0	32
2320			min	1.407	23	-0.078	1	0	1	0	1	0	1	0	1	0	1
2321	M254	1	max	0.207	13	0.174	24	0.108	23	0.953	8	0.093	22	7.69	13	5.505	23
2322			min	-0.085	23	-0.227	14	-1.076	5	-0.093	22	-0.953	8	-5.505	23	-7.69	13
2323		2	max	0.207	13	0.103	21	0.307	23	1.596	16	1.431	22	2.343	21	4.921	15
2324			min	-0.085	23	-0.155	15	-0.672	13	-1.431	22	-1.596	16	-4.921	15	-2.343	21
2325		3	max	0.207	13	0.103	21	0.588	15	2.157	21	2.466	15	-0.931	21	3.041	4
2326			min	-0.085	23	-0.155	15	-0.357	21	-2.466	15	-2.157	21	-3.041	4	0.931	21
2327		4	max	0.207	13	0.134	22	1.003	7	3.089	21	3.871	15	3.525	15	2.779	21
2328			min	-0.085	23	-0.187	16	-0.158	21	-3.871	15	-3.089	21	-2.779	21	-3.525	15
2329		5	max	0.207	13	0.247	22	1.552	7	4.021	21	5.276	15	12.034	15	3.202	21
2330			min	-0.085	23	-0.299	16	0.04	21	-5.276	15	-4.021	21	-3.202	21	-12.034	15
2331	M257	1	max	0	32	0.418	24	-0.736	32	7.024	22	7.024	24	29.269	4	-9.792	23
2332			min	0	1	-0.418	14	-2.2	4	-7.024	16	-7.024	18	9.792	23	-29.269	4
2333		2	max	0	32	0.314	24	-0.552	23	3.951	22	3.951	16	16.464	4	-5.508	23
2334			min	0	1	-0.314	14	-1.65	4	-3.951	16	-3.951	18	5.508	23	-16.464	4
2335		3	max	0	32	0.209	24	-0.368	23	1.756	22	1.756	16	7.317	4	-2.448	21
2336			min	0	1	-0.209	14	-1.1	4	-1.756	16	-1.756	18	2.448	21	-7.317	4
2337		4	max	0	32	0.105	24	-0.184	23	0.439	22	0.439	16	1.829	4	-0.612	21
2338			min	0	1	-0.105	14	-0.55	4	-0.439	16	-0.439	18	0.612	21	-1.829	4
2339		5	max	0	32	0	32	0	32	0	32	0	32	0	32	0	32
2340			min	0	1	0	1	0	1	0	1	0	1	0	1	0	1
2341	M258	1	max	0	32	0.209	24	-0.736	23	3.512	22	3.512	24	29.269	4	-9.792	23
2342			min	0	1	-0.209	14	-2.2	4	-3.512	16	-3.512	22	9.792	23	-29.269	4
2343		2	max	0	32	0.157	24	-0.552	23	1.976	22	1.976	20	16.464	4	-5.508	23
2344			min	0	1	-0.157	14	-1.65	4	-1.976	20	-1.976	22	5.508	23	-16.464	4
2345		3	max	0	32	0.105	24	-0.368	23	0.878	22	0.878	20	7.317	4	-2.448	32
2346			min	0	1	-0.105	14	-1.1	4	-0.878	20	-0.878	22	2.448	29	-7.317	4
2347		4	max	0	32	0.052	24	-0.184	23	0.22	22	0.22	20	1.829	4	-0.612	32
2348			min	0	1	-0.052	14	-0.55	4	-0.22	20	-0.22	22	0.612	29	-1.829	4
2349		5	max	0	32	0	32	0	32	0	32	0	32	0	32	0	32
2350			min	0	1	0	1	0	1	0	1	0	1	0	1	0	1
2351	M244	1	max	0	32	0.648	15	-0.114	22	4.808	21	5.561	15	12.839	8	2.505	18
2352			min	0	1	-0.638	21	-1.583	8	-5.561	15	-4.808	21	-2.505	18	-12.839	8

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
2353		2	max	0	32	0.362	15	-0.036	22	3.979	23	4.543	13	1.019	24	7.546	6
2354			min	0	1	-0.352	21	-0.902	8	-4.543	13	-3.979	23	-7.546	6	-1.019	24
2355		3	max	0	32	0.076	15	0.043	18	7.913	23	8.289	13	-0.462	24	14.953	6
2356			min	0	1	-0.065	21	-0.22	8	-8.289	13	-7.913	23	-14.953	6	0.462	24
2357		4	max	0	32	0.225	13	0.513	6	6.587	23	6.775	13	-0.802	24	12.438	6
2358			min	0	1	-0.215	23	0.016	24	-6.775	13	-6.587	23	-12.438	6	0.802	24
2359		5	max	0	32	0.512	13	1.195	6	0	32	0	32	0	32	0	32
2360			min	0	1	-0.501	23	0.094	24	0	1	0	1	0	1	0	1
2361	M242	1	max	0	32	3.919	8	0	32	0	32	0	32	0	32	0	32
2362			min	0	1	0.695	21	0	1	0	1	0	1	0	1	0	1
2363		2	max	0	32	1.959	8	0	32	29.632	8	-5.252	32	0	32	0	32
2364			min	0	1	0.347	21	0	1	5.252	21	-29.632	4	0	1	0	1
2365		3	max	0	32	0	32	0	32	39.51	8	-7.003	32	0	32	0	32
2366			min	0	1	0	1	0	1	7.003	21	-39.51	4	0	1	0	1
2367		4	max	0	32	-0.347	32	0	32	29.632	8	-5.252	32	0	32	0	32
2368			min	0	1	-1.959	4	0	1	5.252	21	-29.632	4	0	1	0	1
2369		5	max	0	32	-0.695	32	0	32	0	32	0	32	0	32	0	32
2370			min	0	1	-3.919	4	0	1	0	1	0	1	0	1	0	1

Envelope Member Section Deflections - Service

No Data to Print...

Envelope Member Section Deflections - Strength

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
1	F1_G19	1	max	0.007	13	-0.01	21	0.06	19	0.002	13	NC	32	NC	32
2			min	-0.006	23	-0.049	4	-0.062	13	-0.001	23	NC	1	NC	1
3		2	max	0.007	13	-0.055	24	0.057	19	0.001	13	5242.987	23	NC	32
4			min	-0.006	23	-0.444	4	-0.06	13	-0.001	23	601.45	5	NC	1
5		3	max	0.008	14	-0.073	24	0.057	19	0.001	5	3674.102	23	NC	32
6			min	-0.007	24	-0.617	4	-0.06	13	0	23	416.318	5	NC	1
7		4	max	0.007	13	-0.054	24	0.057	19	0.002	7	5080.719	23	NC	32
8			min	-0.006	23	-0.458	4	-0.061	13	0	21	566.743	5	NC	1
9		5	max	0.007	13	-0.006	24	0.058	19	0.002	7	NC	32	NC	32
10			min	-0.006	23	-0.028	4	-0.062	13	0	21	NC	1	NC	1
11	F1_G20	1	max	0.062	13	-0.006	24	0.007	13	0.001	4	NC	32	NC	32
12			min	-0.058	19	-0.028	4	-0.006	23	0	24	NC	1	NC	1
13		2	max	0.063	13	-0.033	24	0.007	14	0.001	6	9736.301	21	NC	32
14			min	-0.06	19	-0.078	4	-0.006	24	0	24	5870.364	4	NC	1
15		3	max	0.064	13	-0.046	24	0.007	14	0	6	6813.163	21	NC	32
16			min	-0.061	19	-0.103	4	-0.006	24	0	24	4112.858	4	NC	1
17		4	max	0.062	13	-0.037	24	0.006	14	0	6	9486.939	21	NC	32
18			min	-0.059	19	-0.093	4	-0.006	24	0	24	5734.855	4	NC	1
19		5	max	0.061	13	-0.012	24	0.006	14	0	14	NC	32	NC	32
20			min	-0.058	19	-0.056	7	-0.005	24	0	24	NC	1	NC	1
21	F1_G32	1	max	0.061	13	-0.02	21	0.005	14	0	14	NC	32	NC	32
22			min	-0.058	19	-0.085	7	-0.005	24	0	24	NC	1	NC	1
23		2	max	0.059	13	-0.018	21	0.005	14	0	14	NC	32	NC	32
24			min	-0.056	19	-0.078	7	-0.005	24	0	24	NC	1	NC	1
25		3	max	0.057	13	-0.005	21	0.005	14	0	14	NC	32	NC	32
26			min	-0.054	19	-0.02	7	-0.004	24	0	24	NC	1	NC	1
27		4	max	0.059	13	-0.011	21	0.005	14	0	14	NC	32	NC	32
28			min	-0.056	19	-0.047	7	-0.004	24	0	24	NC	1	NC	1
29		5	max	0.061	13	-0.006	21	0.006	15	0	15	NC	32	NC	32
30			min	-0.058	19	-0.024	7	-0.005	21	0	21	NC	1	NC	1
31	F1_G158	1	max	0.051	19	-0.027	23	0.005	24	0	24	NC	32	NC	32
32			min	-0.054	13	-0.108	5	-0.005	14	0	14	NC	1	NC	1
33		2	max	0.056	19	-0.016	23	0.005	24	0	24	NC	32	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
34			min	-0.058	13	-0.064	5	-0.005	14	0	14	NC	1	NC	1
35		3	max	0.06	19	-0.003	23	0.005	24	0	24	NC	32	NC	32
36			min	-0.062	13	-0.013	5	-0.006	14	0	14	6755.254	5	NC	1
37		4	max	0.056	19	-0.003	21	0.005	24	0	24	NC	32	NC	32
38			min	-0.058	13	-0.012	7	-0.006	14	0	14	NC	1	NC	1
39		5	max	0.051	19	-0.001	21	0.005	24	0	24	NC	32	NC	32
40			min	-0.054	13	-0.006	7	-0.006	14	0	14	NC	1	NC	1
41	(B-6)_L1	1	max	0	32	0	32	0	32	0	32	NC	32	NC	32
42			min	0	1	0	1	0	1	0	1	NC	1	NC	1
43		2	max	-0.007	23	0.013	19	0.001	14	0	13	NC	32	NC	32
44			min	-0.027	5	-0.014	13	-0.001	24	0	19	NC	1	NC	1
45		3	max	-0.013	23	0.026	19	0.003	14	0	13	NC	32	NC	32
46			min	-0.054	5	-0.027	13	-0.002	24	0	19	7104.753	13	NC	1
47		4	max	-0.02	23	0.038	19	0.004	14	0	13	NC	32	NC	32
48			min	-0.081	5	-0.041	13	-0.004	24	0	19	4736.132	13	NC	1
49		5	max	-0.027	23	0.051	19	0.005	14	0	13	NC	32	NC	32
50			min	-0.108	5	-0.054	13	-0.005	24	0	19	3551.71	13	NC	1
51	(D-7)_L1	1	max	0	32	0	32	0	32	0	32	NC	32	NC	32
52			min	0	1	0	1	0	1	0	1	NC	1	NC	1
53		2	max	-0.001	21	0.014	19	0.001	15	0	13	NC	32	NC	32
54			min	-0.006	7	-0.015	13	-0.001	21	0	19	NC	1	NC	1
55		3	max	-0.003	21	0.029	19	0.003	15	0	13	NC	32	NC	32
56			min	-0.012	7	-0.031	13	-0.003	21	0	19	NC	1	NC	1
57		4	max	-0.004	21	0.043	19	0.004	15	0	13	NC	32	NC	32
58			min	-0.018	7	-0.046	13	-0.004	21	0	19	NC	1	NC	1
59		5	max	-0.006	21	0.058	19	0.006	15	0	13	NC	32	NC	32
60			min	-0.024	7	-0.061	13	-0.005	21	0	19	NC	1	NC	1
61	(B-7)_L1	1	max	0	32	0	32	0	32	0	32	NC	32	NC	32
62			min	0	1	0	1	0	1	0	1	NC	1	NC	1
63		2	max	-0.005	21	0.014	19	0.001	14	0	13	NC	32	NC	32
64			min	-0.021	7	-0.015	13	-0.001	24	0	19	NC	1	NC	1
65		3	max	-0.01	21	0.029	19	0.003	14	0	13	NC	32	NC	32
66			min	-0.043	7	-0.031	13	-0.002	24	0	19	NC	1	NC	1
67		4	max	-0.015	21	0.043	19	0.004	14	0	13	NC	32	NC	32
68			min	-0.064	7	-0.046	13	-0.004	24	0	19	NC	1	NC	1
69		5	max	-0.02	21	0.058	19	0.005	14	0	13	NC	32	NC	32
70			min	-0.085	7	-0.061	13	-0.005	24	0	19	NC	1	NC	1
71	C16_L1	1	max	0	32	0	32	0	32	0	32	NC	32	NC	32
72			min	0	1	0	1	0	1	0	1	NC	1	NC	1
73		2	max	-0.003	24	0.014	15	0.004	13	0	32	NC	32	NC	32
74			min	-0.014	7	-0.015	13	-0.003	23	0	13	NC	1	NC	1
75		3	max	-0.006	24	0.029	19	0.007	13	0	32	NC	32	NC	32
76			min	-0.028	7	-0.029	13	-0.006	23	0	13	6533.295	13	NC	1
77		4	max	-0.009	24	0.043	19	0.011	13	0	32	NC	32	NC	32
78			min	-0.042	7	-0.044	13	-0.009	23	0	13	4337.498	13	NC	1
79		5	max	-0.012	24	0.057	19	0.014	13	0	32	NC	32	NC	32
80			min	-0.056	7	-0.059	13	-0.012	23	0	13	3234.377	13	NC	1
81	C17_L1	1	max	0	32	0	32	0	32	0	32	NC	32	NC	32
82			min	0	1	0	1	0	1	0	1	NC	1	NC	1
83		2	max	-0.002	24	0.083	4	0.023	7	0	21	NC	23	NC	32
84			min	-0.008	4	0.015	23	0.003	21	0	7	2320.039	7	8364.011	4
85		3	max	-0.003	24	0.131	5	0.036	7	0	21	NC	23	NC	32
86			min	-0.016	4	0.017	23	0.004	21	0	7	1515.805	7	5349.832	4
87		4	max	-0.005	24	0.109	5	0.03	7	0	21	NC	23	NC	32
88			min	-0.024	4	-0.01	23	0.001	21	0	7	2067.286	7	6671.659	4
89		5	max	-0.006	24	0.062	13	0.006	23	0	13	NC	32	NC	32
90			min	-0.028	4	-0.058	19	-0.007	13	0	19	3296.695	23	NC	1
91	C18_L1	1	max	0	32	0	32	0	32	0	32	NC	32	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
92			min	0	1	0	1	0	1	0	1	NC	1	NC	1
93		2	max	-0.003	21	0.085	13	0.017	7	0	21	NC	32	NC	32
94			min	-0.013	4	-0.057	23	0.001	21	0	4	2750.555	13	NC	1
95		3	max	-0.005	21	0.14	13	0.028	7	0	21	NC	32	NC	32
96			min	-0.026	4	-0.097	23	0.002	21	0	4	1764.344	13	7103.296	4
97		4	max	-0.008	21	0.133	13	0.024	7	0	21	NC	32	NC	32
98			min	-0.038	4	-0.104	23	-0.001	21	-0.001	4	2225.603	13	8554.72	4
99		5	max	-0.01	21	0.062	13	0.006	23	0	21	NC	32	NC	32
100			min	-0.049	4	-0.06	19	-0.007	13	-0.001	4	NC	1	NC	1
101	(N-6)_L1	1	max	0	32	0	32	0	32	0	32	NC	32	NC	32
102			min	0	1	0	1	0	1	0	1	NC	1	NC	1
103		2	max	0	21	0.013	19	0.002	14	0	13	NC	32	NC	32
104			min	-0.001	7	-0.013	13	-0.001	24	0	19	NC	1	NC	1
105		3	max	-0.001	21	0.026	19	0.003	14	0	13	NC	32	NC	32
106			min	-0.003	7	-0.027	13	-0.003	24	0	19	7121.628	13	NC	1
107		4	max	-0.001	21	0.039	19	0.005	14	0	13	NC	32	NC	32
108			min	-0.004	7	-0.04	13	-0.004	24	0	19	4742.687	13	NC	1
109		5	max	-0.001	21	0.051	19	0.006	14	0	13	NC	32	NC	32
110			min	-0.006	7	-0.054	13	-0.005	24	0	19	3551.71	13	NC	1
111	M12	1	max	0.059	13	0.031	21	0.007	13	0.001	4	NC	32	NC	32
112			min	-0.041	23	-0.049	15	-0.006	23	0	24	NC	1	NC	1
113		2	max	0.044	13	-0.754	21	0.006	13	0	6	406.117	24	NC	32
114			min	-0.031	23	-1.215	1	-0.005	23	0	24	261.075	1	NC	1
115		3	max	0.029	13	-1.076	21	0.004	13	0	6	289.359	24	NC	32
116			min	-0.021	23	-1.701	1	-0.003	23	0	24	186.016	1	NC	1
117		4	max	0.015	13	-0.77	21	0.002	13	0	6	406.117	24	NC	32
118			min	-0.01	23	-1.211	1	-0.002	23	0	24	261.075	1	NC	1
119		5	max	0	32	0	32	0	32	0	14	NC	32	NC	32
120			min	0	1	0	1	0	1	0	24	NC	1	NC	1
121	M13	1	max	0.063	15	0.026	23	0.005	24	0	24	NC	32	NC	32
122			min	-0.036	21	-0.066	5	-0.006	14	0	14	NC	1	NC	1
123		2	max	0.048	15	-0.758	23	0.004	24	0	8	406.117	22	NC	32
124			min	-0.027	21	-1.221	1	-0.005	14	0	22	261.075	1	NC	1
125		3	max	0.032	15	-1.079	23	0.003	24	0	7	289.359	22	NC	32
126			min	-0.018	21	-1.706	1	-0.003	14	0	22	186.016	1	NC	1
127		4	max	0.016	15	-0.771	23	0.001	24	0	7	406.117	22	NC	32
128			min	-0.009	21	-1.214	1	-0.002	14	0	21	261.075	1	NC	1
129		5	max	0	32	0	32	0	32	0	7	NC	32	NC	32
130			min	0	1	0	1	0	1	0	21	NC	1	NC	1
131	M14	1	max	0	32	0	32	0	32	0.001	4	NC	32	NC	32
132			min	0	1	0	1	0	1	0	23	NC	1	NC	1
133		2	max	0	23	-0.645	21	0.016	13	0.001	7	477.904	22	NC	32
134			min	-0.009	5	-1.006	1	-0.015	19	0	21	307.224	1	NC	1
135		3	max	-0.001	23	-0.906	21	0.031	13	0.001	15	340.506	22	NC	32
136			min	-0.017	5	-1.413	1	-0.03	19	0	21	218.897	1	NC	1
137		4	max	-0.001	23	-0.647	21	0.047	13	0.001	23	477.904	22	NC	32
138			min	-0.026	5	-1.011	1	-0.045	19	-0.001	13	307.224	1	NC	1
139		5	max	-0.001	23	-0.003	21	0.062	13	0.001	23	NC	32	NC	32
140			min	-0.034	5	-0.039	7	-0.06	19	-0.001	13	NC	1	NC	1
141	M15	1	max	0	32	0	32	0	32	0.001	23	NC	32	NC	32
142			min	0	1	0	1	0	1	-0.001	13	NC	1	NC	1
143		2	max	0	22	-0.645	24	0.015	19	0.001	15	477.904	23	NC	32
144			min	-0.005	7	-1.005	1	-0.015	13	-0.001	17	307.224	1	NC	1
145		3	max	0.001	22	-0.905	24	0.029	19	0.001	15	340.506	23	NC	32
146			min	-0.009	7	-1.411	1	-0.031	13	-0.001	21	218.897	1	NC	1
147		4	max	0.001	22	-0.645	24	0.044	19	0.001	7	477.904	23	NC	32
148			min	-0.014	7	-1.008	1	-0.046	13	0	21	307.224	1	NC	1
149		5	max	0.001	22	-0.001	24	0.058	19	0.002	7	NC	32	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
150			min	-0.019	7	-0.025	5	-0.062	13	0	21	NC	1	NC	1
151	M16	1	max	0	32	0	32	0	32	0	14	NC	32	NC	32
152			min	0	1	0	1	0	1	0	24	NC	1	NC	1
153		2	max	0.009	21	-0.078	23	0.001	14	0	14	3183.443	23	NC	32
154			min	-0.012	15	-0.136	1	-0.001	24	0	24	2046.499	1	NC	1
155		3	max	0.018	21	-0.104	23	0.002	14	0	14	2268.203	23	NC	32
156			min	-0.023	15	-0.192	1	-0.002	24	0	24	1458.13	1	NC	1
157		4	max	0.027	21	-0.061	23	0.004	14	0	14	3183.443	23	NC	32
158			min	-0.035	15	-0.151	13	-0.003	24	0	24	2046.499	1	NC	1
159		5	max	0.036	21	0.034	23	0.005	14	0	14	NC	32	NC	32
160			min	-0.046	15	-0.048	13	-0.004	24	0	24	NC	1	NC	1
161	M17	1	max	0.048	13	0.035	21	0.005	14	0	15	NC	32	NC	32
162			min	-0.035	23	-0.046	15	-0.004	24	0	21	NC	1	NC	1
163		2	max	0.036	13	-0.06	21	0.004	14	0	15	3187.374	32	NC	32
164			min	-0.026	23	-0.149	15	-0.003	24	0	21	2049.026	1	NC	1
165		3	max	0.024	13	-0.104	21	0.002	14	0	15	2271.004	32	NC	32
166			min	-0.018	23	-0.191	1	-0.002	24	0	21	1459.931	1	NC	1
167		4	max	0.012	13	-0.078	21	0.001	14	0	15	3187.374	32	NC	32
168			min	-0.009	23	-0.135	1	-0.001	24	0	21	2049.026	1	NC	1
169		5	max	0	32	0	32	0	32	0	15	NC	32	NC	32
170			min	0	1	0	1	0	1	0	21	NC	1	NC	1
171	M18	1	max	0	32	0	32	0	32	0	24	NC	32	NC	32
172			min	0	1	0	1	0	1	0	14	NC	1	NC	1
173		2	max	0.009	23	-0.034	21	0.001	24	0	24	5331.733	23	NC	32
174			min	-0.011	13	-0.074	15	-0.001	14	0	14	3427.543	1	NC	1
175		3	max	0.017	23	-0.041	21	0.002	24	0	24	3798.86	23	NC	32
176			min	-0.022	13	-0.111	15	-0.003	14	0	14	2442.124	1	NC	1
177		4	max	0.026	23	-0.011	21	0.004	24	0	24	5331.733	23	NC	32
178			min	-0.033	13	-0.1	15	-0.004	14	0	14	3427.543	1	NC	1
179		5	max	0.034	23	0.046	21	0.005	24	0	24	NC	32	NC	32
180			min	-0.044	13	-0.051	15	-0.006	14	0	14	NC	1	NC	1
181	M19	1	max	0.042	15	0.045	23	0.005	24	0	23	NC	32	NC	32
182			min	-0.035	21	-0.054	13	-0.006	14	0	13	NC	1	NC	1
183		2	max	0.032	15	-0.012	23	0.004	24	0	23	5331.733	23	NC	32
184			min	-0.026	21	-0.101	13	-0.004	14	0	13	3427.543	1	NC	1
185		3	max	0.021	15	-0.042	23	0.002	24	0	23	3798.86	23	NC	32
186			min	-0.018	21	-0.112	13	-0.003	14	0	13	2442.124	1	NC	1
187		4	max	0.011	15	-0.034	23	0.001	24	0	23	5331.733	23	NC	32
188			min	-0.009	21	-0.074	13	-0.001	14	0	13	3427.543	1	NC	1
189		5	max	0	32	0	32	0	32	0	24	NC	32	NC	32
190			min	0	1	0	1	0	1	0	13	NC	1	NC	1
191	F1_G1	1	max	0.005	14	-0.009	21	0.02	15	0	19	NC	32	NC	32
192			min	-0.005	24	-0.022	7	-0.02	13	0	13	NC	1	NC	1
193		2	max	0.005	14	-0.458	21	0.022	15	0	19	1004.555	23	NC	32
194			min	-0.005	24	-1.307	7	-0.022	13	0	13	351.129	5	NC	1
195		3	max	0.005	14	-0.537	21	0.023	19	0	19	826.858	23	NC	32
196			min	-0.005	24	-1.534	7	-0.024	13	0	13	289.353	5	NC	1
197		4	max	0.005	14	-0.237	21	0.025	19	0	19	1613.179	23	NC	32
198			min	-0.005	24	-0.677	7	-0.026	13	0	13	566.566	5	NC	1
199		5	max	0.005	14	0.215	7	0.027	19	0	19	5451.127	21	NC	32
200			min	-0.005	24	0.077	21	-0.028	13	0	13	1994.659	7	NC	1
201	F1_G3	1	max	0.005	14	0.131	7	0.032	19	0	19	NC	32	NC	32
202			min	-0.005	24	0.046	21	-0.033	13	0	13	NC	1	NC	1
203		2	max	0.005	14	-0.297	21	0.034	19	0	19	1577.34	21	NC	32
204			min	-0.005	24	-0.859	7	-0.035	13	0	13	545.362	7	NC	1
205		3	max	0.005	14	-0.579	24	0.036	19	0	19	865.245	24	NC	32
206			min	-0.005	24	-1.675	4	-0.037	13	0	13	298.98	4	NC	1
207		4	max	0.005	14	-0.297	23	0.038	19	0	19	1577.34	23	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
208			min	-0.005	24	-0.859	5	-0.039	13	0	13	545.362	5	NC	1
209		5	max	0.005	14	0.131	5	0.04	19	0	19	NC	32	NC	32
210			min	-0.005	24	0.046	23	-0.041	13	0	13	NC	1	NC	1
211	F1_G5	1	max	0.005	14	0.228	7	0.044	19	0	19	4427.856	23	NC	32
212			min	-0.005	24	0.08	21	-0.046	13	0	13	1405.317	5	NC	1
213		2	max	0.005	14	-0.24	21	0.046	19	0	19	1613.179	21	NC	32
214			min	-0.005	24	-0.689	8	-0.048	13	0	13	566.566	7	NC	1
215		3	max	0.005	14	-0.544	23	0.048	19	0	19	826.858	21	NC	32
216			min	-0.005	24	-1.571	5	-0.05	13	0	13	289.353	7	NC	1
217		4	max	0.005	14	-0.47	23	0.05	19	0	19	1004.555	21	NC	32
218			min	-0.005	24	-1.368	5	-0.052	13	0	13	351.129	7	NC	1
219		5	max	0.005	14	-0.027	23	0.051	19	0	19	NC	32	NC	32
220			min	-0.005	24	-0.108	5	-0.054	13	0	13	NC	1	NC	1
221	F1_G6	1	max	0.008	13	-0.01	23	0.02	15	0	23	NC	32	NC	32
222			min	-0.006	23	-0.022	5	-0.02	13	0	13	NC	1	NC	1
223		2	max	0.008	13	-0.458	23	0.022	15	0	23	1004.555	21	NC	32
224			min	-0.006	23	-1.307	5	-0.022	13	0	13	351.129	7	NC	1
225		3	max	0.008	13	-0.537	23	0.023	19	0	23	826.858	21	NC	32
226			min	-0.006	23	-1.534	5	-0.024	13	0	13	289.353	7	NC	1
227		4	max	0.008	13	-0.237	23	0.025	19	0	23	1613.179	21	NC	32
228			min	-0.006	23	-0.677	5	-0.026	13	0	13	566.566	7	NC	1
229		5	max	0.008	13	0.215	5	0.027	19	0	23	5449.027	23	NC	32
230			min	-0.006	23	0.077	23	-0.028	13	0	13	1993.187	5	NC	1
231	F1_G8	1	max	0.008	13	0.131	5	0.032	19	0	23	NC	32	NC	32
232			min	-0.006	23	0.046	23	-0.033	13	0	13	NC	1	NC	1
233		2	max	0.008	13	-0.297	23	0.034	19	0	23	1577.377	23	NC	32
234			min	-0.006	23	-0.859	5	-0.035	13	0	13	545.375	5	NC	1
235		3	max	0.008	13	-0.579	23	0.036	19	0	23	865.264	23	NC	32
236			min	-0.006	23	-1.675	5	-0.037	13	0	13	298.986	5	NC	1
237		4	max	0.008	13	-0.297	23	0.038	19	0	23	1577.397	23	NC	32
238			min	-0.006	23	-0.859	5	-0.039	13	0	13	545.382	5	NC	1
239		5	max	0.008	13	0.131	5	0.04	19	0	23	NC	32	NC	32
240			min	-0.006	23	0.046	23	-0.041	13	0	13	NC	1	NC	1
241	F1_G10	1	max	0.008	13	0.228	7	0.044	19	0	23	4438.441	21	NC	32
242			min	-0.006	23	0.08	21	-0.046	13	0	13	1409.233	7	NC	1
243		2	max	0.008	13	-0.24	21	0.046	19	0	23	1613.221	21	NC	32
244			min	-0.006	23	-0.689	7	-0.048	13	0	13	566.572	7	NC	1
245		3	max	0.008	13	-0.544	21	0.048	19	0	23	826.869	21	NC	32
246			min	-0.006	23	-1.571	7	-0.05	13	0	13	289.353	7	NC	1
247		4	max	0.008	13	-0.47	21	0.05	19	0	23	1004.566	21	NC	32
248			min	-0.006	23	-1.368	7	-0.052	13	0	13	351.128	7	NC	1
249		5	max	0.008	13	-0.027	21	0.051	19	0	23	NC	32	NC	32
250			min	-0.006	23	-0.107	7	-0.054	13	0	13	NC	1	NC	1
251	F1_G11	1	max	0.014	13	-0.001	23	0.038	19	0	19	NC	32	NC	32
252			min	-0.012	23	-0.019	5	-0.04	13	0	13	NC	1	NC	1
253		2	max	0.014	13	-0.003	23	0.038	19	0	19	NC	32	NC	32
254			min	-0.012	23	-0.019	5	-0.04	13	0	13	NC	1	NC	1
255		3	max	0.014	13	-0.004	23	0.038	19	0	15	NC	32	NC	32
256			min	-0.012	23	-0.018	5	-0.04	13	0	13	NC	1	NC	1
257		4	max	0.014	13	-0.004	23	0.039	19	0	15	NC	32	NC	32
258			min	-0.012	23	-0.017	5	-0.04	13	0	13	NC	1	NC	1
259		5	max	0.014	13	-0.004	23	0.039	19	0	15	NC	32	NC	32
260			min	-0.012	23	-0.012	5	-0.041	13	0	13	NC	1	NC	1
261	F1_G12	1	max	0.014	13	-0.004	23	0.039	19	0	15	NC	32	NC	32
262			min	-0.012	23	-0.012	5	-0.041	13	0	13	NC	1	NC	1
263		2	max	0.014	13	-0.034	23	0.04	19	0.001	7	6372.299	21	NC	32
264			min	-0.012	23	-0.112	5	-0.041	13	0	21	1944.532	4	NC	1
265		3	max	0.014	13	-0.047	23	0.04	19	0.002	4	4540.317	21	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
266			min	-0.012	23	-0.154	5	-0.042	13	0	21	1374.756	6	NC	1
267		4	max	0.014	13	-0.035	23	0.041	19	0.004	4	6382.719	23	NC	32
268			min	-0.012	23	-0.114	5	-0.043	13	0.001	23	1946.642	5	NC	1
269		5	max	0.014	13	-0.005	23	0.042	19	0.005	4	NC	32	NC	32
270			min	-0.012	23	-0.015	5	-0.044	13	0.001	23	NC	1	NC	1
271	F1_G13	1	max	0.014	13	-0.005	23	0.042	19	0.005	4	NC	32	NC	32
272			min	-0.012	23	-0.015	5	-0.044	13	0.001	23	NC	1	NC	1
273		2	max	0.014	13	-0.054	21	0.043	19	0.004	4	4516.548	23	NC	32
274			min	-0.012	23	-0.185	7	-0.045	13	0.001	23	1307.718	5	NC	1
275		3	max	0.014	13	-0.074	21	0.043	19	0.004	5	3218.008	23	NC	32
276			min	-0.012	23	-0.259	7	-0.046	13	0	23	923.105	5	NC	1
277		4	max	0.014	13	-0.055	21	0.044	19	0.003	5	4568.386	21	NC	32
278			min	-0.012	23	-0.193	7	-0.046	13	0	23	1320.876	7	NC	1
279		5	max	0.014	13	-0.009	21	0.045	19	0.003	5	NC	32	NC	32
280			min	-0.012	23	-0.034	7	-0.047	13	0	23	NC	1	NC	1
281	F1_G14	1	max	0.039	19	-0.004	23	0.012	23	0	23	NC	32	NC	32
282			min	-0.041	13	-0.012	5	-0.014	13	0	13	NC	1	NC	1
283		2	max	0.039	19	-0.003	23	0.013	23	0	23	NC	32	NC	32
284			min	-0.041	13	-0.01	5	-0.014	13	0	5	NC	1	NC	1
285		3	max	0.039	19	-0.002	23	0.013	23	0	23	NC	32	NC	32
286			min	-0.041	13	-0.008	5	-0.014	13	0	5	NC	1	NC	1
287		4	max	0.039	19	0	23	0.013	23	0	23	NC	32	NC	32
288			min	-0.041	13	-0.005	5	-0.015	13	-0.001	5	NC	1	NC	1
289		5	max	0.039	19	0.001	23	0.013	23	0	23	NC	32	NC	32
290			min	-0.041	13	-0.002	13	-0.015	13	-0.001	5	NC	1	NC	1
291	F1_G17	1	max	0.007	13	-0.005	23	0.047	19	0.002	5	NC	32	NC	32
292			min	-0.006	23	-0.026	4	-0.049	13	0	23	NC	1	NC	1
293		2	max	0.007	13	-0.085	23	0.048	19	0	21	3597.605	21	NC	32
294			min	-0.006	23	-0.764	4	-0.051	13	-0.004	7	388.213	7	NC	1
295		3	max	0.007	13	-0.119	23	0.049	19	-0.001	21	2548.773	21	NC	32
296			min	-0.006	23	-1.084	4	-0.052	13	-0.008	7	271.62	7	NC	1
297		4	max	0.007	13	-0.088	23	0.05	19	-0.002	21	3569.391	21	NC	32
298			min	-0.006	23	-0.799	4	-0.053	13	-0.013	7	375.542	7	NC	1
299		5	max	0.007	13	-0.009	23	0.051	19	-0.003	21	NC	32	NC	32
300			min	-0.006	23	-0.048	4	-0.054	13	-0.017	7	NC	1	NC	1
301	F1_G18	1	max	0.007	13	-0.009	23	0.051	19	-0.003	21	NC	32	NC	32
302			min	-0.006	23	-0.048	4	-0.054	13	-0.017	7	NC	1	NC	1
303		2	max	0.007	13	-0.061	21	0.052	19	-0.002	21	4705.372	21	NC	32
304			min	-0.006	23	-0.312	7	-0.055	13	-0.013	7	903.44	7	NC	1
305		3	max	0.007	13	-0.086	21	0.053	19	-0.001	21	3127.582	21	NC	32
306			min	-0.006	23	-0.443	7	-0.056	13	-0.008	7	606.207	7	NC	1
307		4	max	0.007	13	-0.063	21	0.055	19	0	21	4451.807	21	NC	32
308			min	-0.006	23	-0.325	7	-0.058	13	-0.004	7	864.669	7	NC	1
309		5	max	0.007	13	-0.01	21	0.06	19	0.002	13	NC	32	NC	32
310			min	-0.006	23	-0.049	4	-0.062	13	-0.001	23	NC	1	NC	1
311	F1_G21	1	max	0.051	19	-0.027	21	0.006	23	0	23	NC	32	NC	32
312			min	-0.054	13	-0.107	7	-0.008	13	0	13	NC	1	NC	1
313		2	max	0.051	19	-0.33	21	0.009	23	0	24	2013.186	21	NC	32
314			min	-0.054	13	-1.53	7	-0.01	13	0	6	433.614	7	NC	1
315		3	max	0.051	19	-0.486	21	0.011	23	0	21	1353.34	21	NC	32
316			min	-0.054	13	-2.279	7	-0.012	13	0	7	289.779	7	NC	1
317		4	max	0.051	19	-0.394	21	0.013	23	0	21	1798.266	21	NC	32
318			min	-0.054	13	-1.879	7	-0.015	13	0	7	381.957	7	NC	1
319		5	max	0.051	19	-0.086	21	0.015	23	0	21	NC	32	NC	32
320			min	-0.054	13	-0.443	7	-0.017	13	-0.001	7	NC	1	NC	1
321	F1_G22	1	max	0.014	13	-0.009	21	0.045	19	0.003	5	NC	32	NC	32
322			min	-0.012	23	-0.034	7	-0.047	13	0	23	NC	1	NC	1
323		2	max	0.014	13	-0.407	21	0.047	19	0.005	5	1430.46	21	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
324			min	-0.012	23	-1.81	7	-0.049	13	0.001	23	329.661	7	NC	1
325		3	max	0.014	13	-0.611	21	0.048	19	0.008	5	1079.35	21	NC	32
326			min	-0.012	23	-2.771	7	-0.051	13	0.002	23	244.565	7	NC	1
327		4	max	0.014	13	-0.588	21	0.05	19	0.011	7	1662.475	21	NC	32
328			min	-0.012	23	-2.735	7	-0.052	13	0.003	21	366.88	7	NC	1
329		5	max	0.014	13	-0.451	21	0.051	19	-0.001	21	NC	32	NC	32
330			min	-0.012	23	-2.138	7	-0.054	13	-0.005	7	NC	1	NC	1
331	F1_G23	1	max	0.014	13	-0.451	21	0.051	19	-0.001	21	NC	32	NC	32
332			min	-0.012	23	-2.138	7	-0.054	13	-0.005	7	NC	1	NC	1
333		2	max	0.014	13	-0.531	21	0.053	19	-0.001	23	2045.919	21	NC	32
334			min	-0.012	23	-2.629	7	-0.056	13	-0.004	5	380.505	7	NC	1
335		3	max	0.014	13	-0.499	21	0.054	19	0	23	1452.283	21	NC	32
336			min	-0.012	23	-2.525	7	-0.057	13	-0.002	5	269.466	7	NC	1
337		4	max	0.014	13	-0.315	24	0.056	19	0	23	2031.035	21	NC	32
338			min	-0.012	23	-1.599	7	-0.059	13	-0.001	5	376.41	7	NC	1
339		5	max	0.014	13	-0.012	24	0.057	19	0	23	NC	32	NC	32
340			min	-0.012	23	-0.056	7	-0.059	13	0	13	NC	1	NC	1
341	F1_G24	1	max	0.06	13	-0.01	21	0.018	13	0.001	7	NC	32	NC	32
342			min	-0.058	19	-0.049	4	-0.017	19	0	21	NC	1	NC	1
343		2	max	0.059	13	-0.194	21	0.017	13	0.001	7	3825.833	32	NC	32
344			min	-0.057	19	-1.119	7	-0.015	19	0	21	488.633	4	NC	1
345		3	max	0.058	13	-0.347	21	0.016	13	0.001	7	2724.075	32	NC	32
346			min	-0.056	19	-1.938	7	-0.014	23	0	21	348.111	8	NC	1
347		4	max	0.057	13	-0.456	21	0.015	13	0.002	7	3821.87	23	NC	32
348			min	-0.054	19	-2.419	7	-0.013	23	0	21	488.547	8	NC	1
349		5	max	0.056	13	-0.534	21	0.014	13	0.002	5	NC	32	NC	32
350			min	-0.053	19	-2.65	7	-0.012	23	0	23	NC	1	NC	1
351	F1_G25	1	max	0.052	13	-0.009	23	0.017	13	0.004	7	NC	32	NC	32
352			min	-0.049	19	-0.048	4	-0.015	23	0.001	21	NC	1	NC	1
353		2	max	0.052	13	-0.178	21	0.016	13	0.002	4	9137.186	32	NC	32
354			min	-0.049	19	-0.907	7	-0.014	23	0	24	994.603	5	NC	1
355		3	max	0.052	13	-0.336	21	0.015	13	0.001	4	6504.259	32	NC	32
356			min	-0.049	19	-1.669	7	-0.014	23	0	24	708.56	5	NC	1
357		4	max	0.052	13	-0.48	21	0.015	13	0	21	9124.221	21	NC	32
358			min	-0.049	19	-2.298	7	-0.013	23	-0.001	7	994.397	5	NC	1
359		5	max	0.052	13	-0.613	21	0.014	13	-0.001	21	NC	32	NC	32
360			min	-0.049	19	-2.829	7	-0.012	23	-0.002	7	NC	1	NC	1
361	F1_G26	1	max	0.047	13	-0.005	23	0.016	13	0	7	NC	32	NC	32
362			min	-0.045	19	-0.026	4	-0.014	23	0	21	NC	1	NC	1
363		2	max	0.047	13	-0.012	21	0.015	13	0	7	NC	32	NC	32
364			min	-0.045	19	-0.068	4	-0.014	23	0	21	2831.899	6	NC	1
365		3	max	0.047	13	-0.014	21	0.015	13	0	15	NC	32	NC	32
366			min	-0.045	19	-0.086	4	-0.013	23	0	17	2016.954	7	NC	1
367		4	max	0.047	13	-0.013	21	0.014	13	0	22	NC	32	NC	32
368			min	-0.045	19	-0.072	7	-0.013	23	0	8	2830.216	6	NC	1
369		5	max	0.047	13	-0.009	21	0.014	13	0	22	NC	32	NC	32
370			min	-0.045	19	-0.034	7	-0.012	23	0	8	NC	1	NC	1
371	F1_G29	1	max	0.061	13	-0.012	24	0.006	14	0	14	NC	32	NC	32
372			min	-0.058	19	-0.056	7	-0.005	24	0	24	NC	1	NC	1
373		2	max	0.061	13	-0.065	24	0.006	14	0	14	5579.552	22	NC	32
374			min	-0.058	19	-0.289	7	-0.005	24	0	24	1254.838	5	NC	1
375		3	max	0.061	13	-0.087	22	0.006	14	0	14	3946.149	24	NC	32
376			min	-0.058	19	-0.387	7	-0.005	24	0	24	884.693	5	NC	1
377		4	max	0.062	13	-0.066	22	0.006	14	0	14	5497.958	23	NC	32
378			min	-0.058	19	-0.292	7	-0.005	24	0	24	1228.785	5	NC	1
379		5	max	0.062	13	-0.012	21	0.006	14	0	14	NC	32	NC	32
380			min	-0.058	19	-0.052	7	-0.005	24	0	24	NC	1	NC	1
381	F1_G31	1	max	0.061	13	-0.012	21	0.009	13	0	13	NC	32	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
382			min	-0.058	19	-0.052	7	-0.008	23	0	23	NC	1	NC	1
383		2	max	0.061	13	-0.394	23	0.007	13	0	13	1326.354	23	NC	32
384			min	-0.058	19	-1.687	5	-0.006	23	0	23	309.702	5	NC	1
385		3	max	0.061	13	-0.491	23	0.006	14	0	14	1060.594	23	NC	32
386			min	-0.058	19	-2.092	5	-0.005	24	0	24	249.05	5	NC	1
387		4	max	0.061	13	-0.332	23	0.006	14	0	14	1604.258	23	NC	32
388			min	-0.058	19	-1.409	5	-0.005	24	0	24	378.33	5	NC	1
389		5	max	0.061	13	-0.02	21	0.005	14	0	14	NC	32	NC	32
390			min	-0.058	19	-0.085	7	-0.005	24	0	24	NC	1	NC	1
391	F1_G33	1	max	0.005	21	-0.006	21	0.061	13	0	13	NC	32	NC	32
392			min	-0.006	15	-0.024	7	-0.058	19	0	19	NC	1	NC	1
393		2	max	0.005	21	-0.214	21	0.06	13	0	13	1593.686	21	NC	32
394			min	-0.006	15	-0.966	7	-0.057	19	0	19	353.177	7	NC	1
395		3	max	0.005	21	-0.299	21	0.058	13	0	13	1132.587	21	NC	32
396			min	-0.006	15	-1.351	7	-0.055	19	0	19	250.906	7	NC	1
397		4	max	0.005	21	-0.215	21	0.057	13	0	13	1593.671	21	NC	32
398			min	-0.006	15	-0.97	7	-0.054	19	0	19	353.173	7	NC	1
399		5	max	0.005	21	-0.007	23	0.056	13	0	13	NC	32	NC	32
400			min	-0.006	15	-0.032	5	-0.053	19	0	19	NC	1	NC	1
401	F1_G34	1	max	0.005	21	-0.007	23	0.056	13	0	13	NC	32	NC	32
402			min	-0.006	15	-0.032	5	-0.053	19	0	19	NC	1	NC	1
403		2	max	0.006	21	-0.007	23	0.055	13	0	13	NC	32	NC	32
404			min	-0.006	15	-0.043	5	-0.052	19	0	23	8348.929	5	NC	1
405		3	max	0.006	13	-0.006	23	0.055	13	0	13	NC	32	NC	32
406			min	-0.006	15	-0.05	5	-0.052	19	0	23	5147.389	5	NC	1
407		4	max	0.006	13	-0.003	23	0.055	13	0	13	NC	32	NC	32
408			min	-0.006	15	-0.047	5	-0.052	19	0	23	5510.087	5	NC	1
409		5	max	0.005	21	0.004	23	0.054	13	0	13	NC	32	NC	32
410			min	-0.006	15	-0.027	5	-0.051	19	0	23	NC	1	NC	1
411	F1_G35	1	max	0.051	19	0.02	21	0.004	24	0	20	NC	32	NC	32
412			min	-0.053	13	-0.035	15	-0.005	14	0	22	NC	1	NC	1
413		2	max	0.051	19	-0.006	21	0.004	24	0	20	NC	32	NC	32
414			min	-0.054	13	-0.113	7	-0.005	14	0	14	2920.14	4	NC	1
415		3	max	0.051	19	-0.023	21	0.005	24	0	20	9492.538	32	NC	32
416			min	-0.054	13	-0.158	7	-0.005	14	0	14	2080.599	4	NC	1
417		4	max	0.051	19	-0.029	21	0.005	24	0	20	NC	32	NC	32
418			min	-0.054	13	-0.152	7	-0.005	14	0	14	2920.14	5	NC	1
419		5	max	0.051	19	-0.027	23	0.005	24	0	24	NC	32	NC	32
420			min	-0.054	13	-0.108	5	-0.005	14	0	14	NC	1	NC	1
421	F1_G37	1	max	0.008	13	-0.027	21	0.051	19	0	23	NC	32	NC	32
422			min	-0.006	23	-0.107	7	-0.054	13	0	13	NC	1	NC	1
423		2	max	0.008	13	-0.47	21	0.053	19	0	23	1201.248	21	NC	32
424			min	-0.006	23	-2.113	7	-0.056	13	-0.003	5	262.36	7	NC	1
425		3	max	0.008	13	-0.696	21	0.055	19	-0.001	23	856.346	21	NC	32
426			min	-0.006	23	-3.128	7	-0.058	13	-0.005	5	186.949	7	NC	1
427		4	max	0.008	13	-0.628	21	0.056	19	-0.002	23	1204.519	21	NC	32
428			min	-0.006	23	-2.798	7	-0.059	13	-0.008	5	263.015	7	NC	1
429		5	max	0.008	13	-0.346	23	0.058	19	-0.002	23	NC	32	NC	32
430			min	-0.006	23	-1.485	5	-0.061	13	-0.01	5	NC	1	NC	1
431	F1_G38	1	max	0.005	24	-0.02	21	0.061	13	0	13	NC	32	NC	32
432			min	-0.005	14	-0.085	7	-0.058	19	0	19	NC	1	NC	1
433		2	max	0.005	24	-0.389	21	0.059	13	0	13	1184.446	21	NC	32
434			min	-0.005	14	-1.786	7	-0.056	19	0	19	257.255	7	NC	1
435		3	max	0.005	24	-0.542	21	0.058	13	0	13	841.199	21	NC	32
436			min	-0.005	14	-2.484	7	-0.055	19	0	19	182.622	7	NC	1
437		4	max	0.005	24	-0.396	21	0.056	13	0	13	1176.532	21	NC	32
438			min	-0.005	14	-1.81	7	-0.053	19	0	19	255.324	7	NC	1
439		5	max	0.005	24	-0.027	23	0.054	13	0	13	NC	32	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
440			min	-0.005	14	-0.108	5	-0.051	19	0	19	NC	1	NC	1
441	F1_G39	1	max	0.053	19	-0.007	23	0.005	21	0	21	NC	32	NC	32
442			min	-0.056	13	-0.032	5	-0.006	15	0	15	NC	1	NC	1
443		2	max	0.053	19	-0.374	21	0.004	24	-0.001	21	1445.536	32	NC	32
444			min	-0.056	13	-1.726	7	-0.005	14	-0.003	7	311.569	5	NC	1
445		3	max	0.053	19	-0.58	21	0.004	24	-0.001	21	1022.673	23	NC	32
446			min	-0.056	13	-2.67	7	-0.005	14	-0.006	7	221.54	7	NC	1
447		4	max	0.053	19	-0.561	21	0.005	24	-0.002	21	1445.536	22	NC	32
448			min	-0.056	13	-2.585	7	-0.005	14	-0.009	7	311.569	6	NC	1
449		5	max	0.053	19	-0.383	21	0.005	24	-0.003	21	NC	32	NC	32
450			min	-0.056	13	-1.75	7	-0.005	14	-0.012	7	NC	1	NC	1
451	F1_G40	1	max	0.053	19	-0.383	21	0.005	24	-0.003	21	NC	32	NC	32
452			min	-0.056	13	-1.75	7	-0.005	14	-0.012	7	NC	1	NC	1
453		2	max	0.053	19	-0.693	21	0.005	24	-0.003	23	1367.486	23	NC	32
454			min	-0.056	13	-3.176	7	-0.006	14	-0.013	5	295.446	5	NC	1
455		3	max	0.053	19	-0.833	21	0.005	24	-0.003	23	964.177	23	NC	32
456			min	-0.056	13	-3.805	7	-0.006	14	-0.014	5	209.438	5	NC	1
457		4	max	0.053	19	-0.732	21	0.005	24	-0.003	23	1347.012	23	NC	32
458			min	-0.056	13	-3.34	7	-0.006	14	-0.014	5	291.341	5	NC	1
459		5	max	0.053	19	-0.453	21	0.006	23	-0.003	23	NC	32	NC	32
460			min	-0.056	13	-2.039	7	-0.008	13	-0.015	5	NC	1	NC	1
461	F1_G41	1	max	0.053	19	-0.453	21	0.006	23	-0.003	23	NC	32	NC	32
462			min	-0.056	13	-2.039	7	-0.008	13	-0.015	5	NC	1	NC	1
463		2	max	0.053	19	-0.746	21	0.008	23	-0.003	23	1445.536	22	NC	32
464			min	-0.056	13	-3.456	7	-0.009	13	-0.012	5	311.569	4	NC	1
465		3	max	0.053	19	-0.879	21	0.009	23	-0.002	23	1022.673	32	NC	32
466			min	-0.056	13	-4.123	7	-0.011	13	-0.009	5	221.54	4	NC	1
467		4	max	0.053	19	-0.786	21	0.011	23	-0.001	23	1445.536	32	NC	32
468			min	-0.056	13	-3.762	7	-0.012	13	-0.005	5	311.569	8	NC	1
469		5	max	0.053	19	-0.534	21	0.012	23	0	23	NC	32	NC	32
470			min	-0.056	13	-2.65	7	-0.014	13	-0.002	5	NC	1	NC	1
471	F1_G42	1	max	0.005	14	0.215	7	0.027	19	0	19	NC	32	NC	32
472			min	-0.005	24	0.077	21	-0.028	13	0	13	NC	1	NC	1
473		2	max	0.005	14	-0.169	23	0.028	19	0	19	1257.475	21	NC	32
474			min	-0.005	24	-0.497	5	-0.029	13	0	13	434.26	7	NC	1
475		3	max	0.005	14	-0.273	23	0.029	19	0	19	896.033	21	NC	32
476			min	-0.005	24	-0.797	5	-0.03	13	0	13	309.42	7	NC	1
477		4	max	0.005	14	-0.185	23	0.03	19	0	19	1257.475	23	NC	32
478			min	-0.005	24	-0.539	5	-0.031	13	0	13	434.26	5	NC	1
479		5	max	0.005	14	0.131	7	0.032	19	0	19	NC	32	NC	32
480			min	-0.005	24	0.046	21	-0.033	13	0	13	NC	1	NC	1
481	F1_G43	1	max	0.005	14	0.131	5	0.04	19	0	19	NC	32	NC	32
482			min	-0.005	24	0.046	23	-0.041	13	0	13	NC	1	NC	1
483		2	max	0.005	14	-0.185	23	0.041	19	0	19	1257.475	21	NC	32
484			min	-0.005	24	-0.536	4	-0.043	13	0	13	434.26	7	NC	1
485		3	max	0.005	14	-0.272	23	0.042	19	0	19	896.033	23	NC	32
486			min	-0.005	24	-0.79	5	-0.044	13	0	13	309.42	5	NC	1
487		4	max	0.005	14	-0.167	23	0.043	19	0	19	1257.475	23	NC	32
488			min	-0.005	24	-0.487	5	-0.045	13	0	13	434.26	5	NC	1
489		5	max	0.005	14	0.228	7	0.044	19	0	19	NC	32	NC	32
490			min	-0.005	24	0.08	21	-0.046	13	0	13	NC	1	NC	1
491	F1_G44	1	max	0.008	13	0.215	5	0.027	19	0	23	NC	32	NC	32
492			min	-0.006	23	0.077	23	-0.028	13	0	13	NC	1	NC	1
493		2	max	0.008	13	-0.169	21	0.028	19	0	23	1257.475	23	NC	32
494			min	-0.006	23	-0.497	7	-0.029	13	0	13	434.26	5	NC	1
495		3	max	0.008	13	-0.273	21	0.029	19	0	23	896.033	23	NC	32
496			min	-0.006	23	-0.797	7	-0.03	13	0	13	309.42	5	NC	1
497		4	max	0.008	13	-0.185	21	0.03	19	0	23	1257.475	21	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
498			min	-0.006	23	-0.539	7	-0.031	13	0	13	434.26	7	NC	1
499		5	max	0.008	13	0.131	5	0.032	19	0	23	NC	32	NC	32
500			min	-0.006	23	0.046	23	-0.033	13	0	13	NC	1	NC	1
501	F1_G45	1	max	0.008	13	0.131	5	0.04	19	0	23	NC	32	NC	32
502			min	-0.006	23	0.046	23	-0.041	13	0	13	NC	1	NC	1
503		2	max	0.008	13	-0.185	23	0.041	19	0	23	1257.499	23	NC	32
504			min	-0.006	23	-0.536	5	-0.043	13	0	13	434.269	5	NC	1
505		3	max	0.008	13	-0.272	23	0.042	19	0	23	896.05	23	NC	32
506			min	-0.006	23	-0.79	5	-0.044	13	0	13	309.426	5	NC	1
507		4	max	0.008	13	-0.167	23	0.043	19	0	23	1257.498	23	NC	32
508			min	-0.006	23	-0.487	5	-0.045	13	0	13	434.269	5	NC	1
509		5	max	0.008	13	0.228	7	0.044	19	0	23	NC	32	NC	32
510			min	-0.006	23	0.08	21	-0.046	13	0	13	NC	1	NC	1
511	F1_G46	1	max	0.027	13	-0.006	23	0.014	13	-0.002	23	NC	32	NC	32
512			min	-0.026	19	-0.012	5	-0.012	23	-0.005	5	NC	1	NC	1
513		2	max	0.027	13	-0.492	23	0.012	13	-0.002	23	830.839	24	NC	32
514			min	-0.026	19	-1.461	5	-0.011	23	-0.005	5	278.41	4	NC	1
515		3	max	0.027	13	-0.694	23	0.011	13	-0.002	23	591.973	24	NC	32
516			min	-0.026	19	-2.066	5	-0.009	23	-0.006	5	198.367	6	NC	1
517		4	max	0.027	13	-0.514	23	0.009	13	-0.002	23	830.839	24	NC	32
518			min	-0.026	19	-1.528	5	-0.008	23	-0.007	5	278.41	7	NC	1
519		5	max	0.027	13	-0.051	23	0.008	13	-0.003	23	NC	32	NC	32
520			min	-0.026	19	-0.147	5	-0.006	23	-0.008	5	NC	1	NC	1
521	F1_G47	1	max	0.027	13	-0.051	23	0.008	13	-0.003	23	NC	32	NC	32
522			min	-0.026	19	-0.147	5	-0.006	23	-0.008	5	NC	1	NC	1
523		2	max	0.027	13	-0.555	23	0.006	14	-0.003	23	794.006	23	NC	32
524			min	-0.026	19	-1.65	5	-0.005	24	-0.008	5	266.068	4	NC	1
525		3	max	0.027	13	-0.758	24	0.006	14	-0.003	24	565.729	23	NC	32
526			min	-0.026	19	-2.256	6	-0.005	24	-0.008	6	189.573	7	NC	1
527		4	max	0.027	13	-0.555	21	0.006	14	-0.003	21	794.006	21	NC	32
528			min	-0.026	19	-1.65	7	-0.005	24	-0.008	7	266.068	7	NC	1
529		5	max	0.027	13	-0.051	21	0.005	14	-0.003	21	NC	32	NC	32
530			min	-0.026	19	-0.147	7	-0.005	24	-0.008	7	NC	1	NC	1
531	F1_G48	1	max	0.027	13	-0.051	21	0.005	14	-0.003	21	NC	32	NC	32
532			min	-0.026	19	-0.147	7	-0.005	24	-0.008	7	NC	1	NC	1
533		2	max	0.027	13	-0.514	21	0.005	14	-0.002	21	830.839	24	NC	32
534			min	-0.026	19	-1.528	7	-0.005	24	-0.007	7	278.41	5	NC	1
535		3	max	0.027	13	-0.694	21	0.005	14	-0.002	21	591.973	32	NC	32
536			min	-0.026	19	-2.066	7	-0.004	24	-0.006	7	198.367	7	NC	1
537		4	max	0.027	13	-0.492	21	0.005	14	-0.002	21	830.839	24	NC	32
538			min	-0.026	19	-1.461	7	-0.004	24	-0.005	7	278.41	8	NC	1
539		5	max	0.027	13	-0.006	21	0.006	15	-0.002	21	NC	32	NC	32
540			min	-0.026	19	-0.012	7	-0.005	21	-0.005	7	NC	1	NC	1
541	F1_G49	1	max	0.034	13	-0.006	21	0.014	13	0.004	5	NC	32	NC	32
542			min	-0.032	19	-0.012	7	-0.012	23	0.002	23	NC	1	NC	1
543		2	max	0.034	13	-0.495	21	0.012	13	0.005	5	824.285	32	NC	32
544			min	-0.032	19	-1.471	7	-0.011	23	0.002	23	275.955	4	NC	1
545		3	max	0.034	13	-0.698	21	0.011	13	0.006	5	587.303	24	NC	32
546			min	-0.032	19	-2.079	7	-0.009	23	0.002	23	196.618	8	NC	1
547		4	max	0.034	13	-0.515	21	0.009	13	0.006	5	824.285	23	NC	32
548			min	-0.032	19	-1.535	7	-0.008	23	0.002	23	275.955	4	NC	1
549		5	max	0.034	13	-0.048	23	0.008	13	0.007	5	NC	32	NC	32
550			min	-0.032	19	-0.139	5	-0.006	23	0.002	23	NC	1	NC	1
551	F1_G50	1	max	0.034	13	-0.048	23	0.008	13	0.007	5	NC	32	NC	32
552			min	-0.032	19	-0.139	5	-0.006	23	0.002	23	NC	1	NC	1
553		2	max	0.034	13	-0.556	23	0.006	14	0.007	5	787.742	32	NC	32
554			min	-0.032	19	-1.655	5	-0.005	24	0.002	23	263.721	4	NC	1
555		3	max	0.034	13	-0.761	23	0.006	14	0.007	5	561.267	32	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
556			min	-0.032	19	-2.267	5	-0.005	24	0.002	23	187.901	5	NC	1
557		4	max	0.034	13	-0.556	23	0.006	14	0.007	5	787.742	32	NC	32
558			min	-0.032	19	-1.655	5	-0.005	24	0.002	23	263.721	7	NC	1
559		5	max	0.034	13	-0.048	23	0.005	14	0.007	7	NC	32	NC	32
560			min	-0.032	19	-0.139	5	-0.005	24	0.002	21	NC	1	NC	1
561	F1_G51	1	max	0.034	13	-0.048	23	0.005	14	0.007	7	NC	32	NC	32
562			min	-0.032	19	-0.139	5	-0.005	24	0.002	21	NC	1	NC	1
563		2	max	0.034	13	-0.515	24	0.005	14	0.006	7	824.285	32	NC	32
564			min	-0.032	19	-1.535	6	-0.005	24	0.002	21	275.955	4	NC	1
565		3	max	0.034	13	-0.698	24	0.005	14	0.006	7	587.303	22	NC	32
566			min	-0.032	19	-2.079	6	-0.004	24	0.002	21	196.618	4	NC	1
567		4	max	0.034	13	-0.495	24	0.005	14	0.005	7	824.285	22	NC	32
568			min	-0.032	19	-1.471	6	-0.004	24	0.002	21	275.955	4	NC	1
569		5	max	0.034	13	-0.006	24	0.006	15	0.004	7	NC	32	NC	32
570			min	-0.032	19	-0.012	6	-0.005	21	0.002	21	NC	1	NC	1
571	F1_G52	1	max	0.04	13	-0.004	23	0.014	13	0	23	NC	32	NC	32
572			min	-0.039	19	-0.016	5	-0.012	23	0	13	NC	1	NC	1
573		2	max	0.04	13	-0.493	23	0.012	13	-0.001	23	824.285	23	NC	32
574			min	-0.039	19	-1.475	5	-0.011	23	-0.002	5	275.955	4	NC	1
575		3	max	0.04	13	-0.697	23	0.011	13	-0.001	23	587.303	21	NC	32
576			min	-0.039	19	-2.081	5	-0.009	23	-0.004	5	196.618	4	NC	1
577		4	max	0.04	13	-0.515	23	0.009	13	-0.002	23	824.285	23	NC	32
578			min	-0.039	19	-1.536	5	-0.008	23	-0.005	5	275.955	6	NC	1
579		5	max	0.04	13	-0.048	21	0.008	13	-0.002	23	NC	32	NC	32
580			min	-0.039	19	-0.139	7	-0.006	23	-0.007	5	NC	1	NC	1
581	F1_G53	1	max	0.04	13	-0.048	21	0.008	13	-0.002	23	NC	32	NC	32
582			min	-0.039	19	-0.139	7	-0.006	23	-0.007	5	NC	1	NC	1
583		2	max	0.04	13	-0.556	21	0.006	14	-0.002	23	787.742	24	NC	32
584			min	-0.039	19	-1.655	7	-0.005	24	-0.007	5	263.721	8	NC	1
585		3	max	0.04	13	-0.761	21	0.006	14	-0.002	23	561.267	32	NC	32
586			min	-0.039	19	-2.267	7	-0.005	24	-0.007	5	187.901	4	NC	1
587		4	max	0.04	13	-0.556	21	0.006	14	-0.002	23	787.742	22	NC	32
588			min	-0.039	19	-1.655	7	-0.005	24	-0.007	5	263.721	4	NC	1
589		5	max	0.04	13	-0.048	21	0.005	14	-0.002	23	NC	32	NC	32
590			min	-0.039	19	-0.139	7	-0.005	24	-0.007	5	NC	1	NC	1
591	F1_G54	1	max	0.04	13	-0.048	21	0.005	14	-0.002	23	NC	32	NC	32
592			min	-0.039	19	-0.139	7	-0.005	24	-0.007	5	NC	1	NC	1
593		2	max	0.04	13	-0.515	22	0.005	14	-0.002	23	824.285	23	NC	32
594			min	-0.039	19	-1.535	8	-0.005	24	-0.006	5	275.955	6	NC	1
595		3	max	0.04	13	-0.698	22	0.005	14	-0.002	23	587.303	32	NC	32
596			min	-0.039	19	-2.079	8	-0.004	24	-0.006	5	196.618	6	NC	1
597		4	max	0.04	13	-0.495	22	0.005	14	-0.002	23	824.285	22	NC	32
598			min	-0.039	19	-1.471	8	-0.004	24	-0.005	5	275.955	4	NC	1
599		5	max	0.04	13	-0.006	22	0.006	15	-0.002	23	NC	32	NC	32
600			min	-0.039	19	-0.012	8	-0.005	21	-0.004	5	NC	1	NC	1
601	F1_G55	1	max	0.047	13	-0.009	21	0.014	13	0	22	NC	32	NC	32
602			min	-0.045	19	-0.034	7	-0.012	23	0	8	NC	1	NC	1
603		2	max	0.047	13	-0.493	21	0.012	13	0.002	6	830.839	23	NC	32
604			min	-0.045	19	-1.477	7	-0.011	23	0.001	24	278.41	4	NC	1
605		3	max	0.047	13	-0.695	21	0.011	13	0.004	6	591.973	23	NC	32
606			min	-0.045	19	-2.076	7	-0.009	23	0.001	24	198.367	7	NC	1
607		4	max	0.047	13	-0.515	21	0.009	13	0.006	6	830.839	23	NC	32
608			min	-0.045	19	-1.534	7	-0.008	23	0.002	24	278.41	5	NC	1
609		5	max	0.047	13	-0.051	23	0.008	13	0.008	7	NC	32	NC	32
610			min	-0.045	19	-0.147	5	-0.006	23	0.003	21	NC	1	NC	1
611	F1_G56	1	max	0.047	13	-0.051	23	0.008	13	0.008	7	NC	32	NC	32
612			min	-0.045	19	-0.147	5	-0.006	23	0.003	21	NC	1	NC	1
613		2	max	0.047	13	-0.555	23	0.006	14	0.008	7	794.006	23	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
614			min	-0.045	19	-1.65	5	-0.005	24	0.003	21	266.068	4	NC	1
615		3	max	0.047	13	-0.758	23	0.006	14	0.008	7	565.729	23	NC	32
616			min	-0.045	19	-2.256	5	-0.005	24	0.003	21	189.573	8	NC	1
617		4	max	0.047	13	-0.555	23	0.006	14	0.008	7	794.006	23	NC	32
618			min	-0.045	19	-1.65	5	-0.005	24	0.003	21	266.068	8	NC	1
619		5	max	0.047	13	-0.051	23	0.005	14	0.008	7	NC	32	NC	32
620			min	-0.045	19	-0.147	5	-0.005	24	0.003	21	NC	1	NC	1
621	F1_G57	1	max	0.047	13	-0.051	23	0.005	14	0.008	7	NC	32	NC	32
622			min	-0.045	19	-0.147	5	-0.005	24	0.003	21	NC	1	NC	1
623		2	max	0.047	13	-0.514	21	0.005	14	0.007	7	830.839	23	NC	32
624			min	-0.045	19	-1.528	7	-0.005	24	0.002	21	278.41	5	NC	1
625		3	max	0.047	13	-0.694	21	0.005	14	0.006	7	591.973	21	NC	32
626			min	-0.045	19	-2.065	7	-0.004	24	0.002	21	198.367	7	NC	1
627		4	max	0.047	13	-0.492	21	0.005	14	0.006	7	830.839	21	NC	32
628			min	-0.045	19	-1.461	7	-0.004	24	0.002	21	278.41	5	NC	1
629		5	max	0.047	13	-0.006	21	0.006	15	0.005	7	NC	32	NC	32
630			min	-0.045	19	-0.012	7	-0.005	21	0.002	21	NC	1	NC	1
631	F1_J54	1	max	0.021	13	-0.263	21	0.005	14	0.011	5	NC	32	NC	32
632			min	-0.021	15	-0.749	7	-0.005	24	0.004	23	NC	1	NC	1
633		2	max	0.021	13	-0.668	23	0.005	14	0.01	5	837.49	22	NC	32
634			min	-0.021	15	-1.967	5	-0.005	24	0.003	23	280.909	4	NC	1
635		3	max	0.021	13	-0.793	23	0.005	14	0.009	5	596.712	32	NC	32
636			min	-0.021	15	-2.349	5	-0.004	24	0.003	23	200.147	4	NC	1
637		4	max	0.021	13	-0.538	23	0.005	14	0.008	5	837.49	32	NC	32
638			min	-0.021	15	-1.599	5	-0.004	24	0.003	23	280.909	4	NC	1
639		5	max	0.021	13	-0.003	23	0.006	15	0.007	5	NC	32	NC	32
640			min	-0.021	15	-0.012	5	-0.005	21	0.002	23	NC	1	NC	1
641	F1_J55	1	max	0.022	13	-0.457	21	0.005	14	0.007	5	NC	32	NC	32
642			min	-0.022	15	-1.305	7	-0.005	24	0.002	23	NC	1	NC	1
643		2	max	0.022	13	-0.814	23	0.005	14	0.006	5	837.49	22	NC	32
644			min	-0.022	15	-2.384	5	-0.005	24	0.002	23	280.909	4	NC	1
645		3	max	0.022	13	-0.891	23	0.005	14	0.006	5	596.712	24	NC	32
646			min	-0.022	15	-2.627	5	-0.004	24	0.002	23	200.147	4	NC	1
647		4	max	0.022	13	-0.588	23	0.005	14	0.005	5	837.49	22	NC	32
648			min	-0.022	15	-1.738	5	-0.004	24	0.002	23	280.909	5	NC	1
649		5	max	0.022	13	-0.005	23	0.006	15	0.004	5	NC	32	NC	32
650			min	-0.022	15	-0.013	5	-0.005	21	0.002	23	NC	1	NC	1
651	F1_J56	1	max	0.023	13	-0.553	21	0.005	14	0.002	5	NC	32	NC	32
652			min	-0.023	19	-1.58	7	-0.005	24	0.001	23	NC	1	NC	1
653		2	max	0.023	13	-0.887	23	0.005	14	0.002	5	837.49	32	NC	32
654			min	-0.023	19	-2.59	5	-0.005	24	0.001	23	280.909	5	NC	1
655		3	max	0.023	13	-0.94	23	0.005	14	0.002	5	596.712	24	NC	32
656			min	-0.023	19	-2.764	5	-0.004	24	0.001	23	200.147	4	NC	1
657		4	max	0.023	13	-0.613	23	0.005	14	0.001	5	837.49	23	NC	32
658			min	-0.023	19	-1.807	5	-0.004	24	0	23	280.909	4	NC	1
659		5	max	0.023	13	-0.006	23	0.006	15	0.001	5	NC	32	NC	32
660			min	-0.023	19	-0.013	5	-0.005	21	0	23	NC	1	NC	1
661	F1_J57	1	max	0.024	13	-0.538	21	0.005	14	-0.001	21	NC	32	NC	32
662			min	-0.023	19	-1.536	7	-0.005	24	-0.003	7	NC	1	NC	1
663		2	max	0.024	13	-0.875	23	0.005	14	-0.001	21	837.49	32	NC	32
664			min	-0.023	19	-2.558	5	-0.005	24	-0.003	7	280.909	4	NC	1
665		3	max	0.024	13	-0.932	23	0.005	14	-0.001	21	596.712	32	NC	32
666			min	-0.023	19	-2.743	5	-0.004	24	-0.003	7	200.147	8	NC	1
667		4	max	0.024	13	-0.609	23	0.005	14	-0.001	21	837.49	32	NC	32
668			min	-0.023	19	-1.796	5	-0.004	24	-0.002	7	280.909	8	NC	1
669		5	max	0.024	13	-0.006	23	0.006	15	-0.001	21	NC	32	NC	32
670			min	-0.023	19	-0.012	5	-0.005	21	-0.002	7	NC	1	NC	1
671	F1_J58	1	max	0.025	13	-0.422	21	0.005	14	-0.003	21	NC	32	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
672			min	-0.024	19	-1.205	7	-0.005	24	-0.007	7	NC	1	NC	1
673		2	max	0.025	13	-0.788	21	0.005	14	-0.002	21	837.49	22	NC	32
674			min	-0.024	19	-2.309	7	-0.005	24	-0.007	7	280.909	4	NC	1
675		3	max	0.025	13	-0.874	21	0.005	14	-0.002	21	596.712	24	NC	32
676			min	-0.024	19	-2.577	7	-0.004	24	-0.006	7	200.147	7	NC	1
677		4	max	0.025	13	-0.581	21	0.005	14	-0.002	21	837.49	22	NC	32
678			min	-0.024	19	-1.713	7	-0.004	24	-0.005	7	280.909	8	NC	1
679		5	max	0.025	13	-0.006	21	0.006	15	-0.002	21	NC	32	NC	32
680			min	-0.024	19	-0.012	7	-0.005	21	-0.005	7	NC	1	NC	1
681	F1_J59	1	max	0.026	13	-0.24	21	0.005	14	-0.003	21	NC	32	NC	32
682			min	-0.025	19	-0.685	7	-0.005	24	-0.009	7	NC	1	NC	1
683		2	max	0.026	13	-0.652	21	0.005	14	-0.003	21	837.49	24	NC	32
684			min	-0.025	19	-1.919	7	-0.005	24	-0.008	7	280.909	6	NC	1
685		3	max	0.026	13	-0.783	21	0.005	14	-0.003	21	596.712	32	NC	32
686			min	-0.025	19	-2.317	7	-0.004	24	-0.007	7	200.147	5	NC	1
687		4	max	0.026	13	-0.535	21	0.005	14	-0.002	21	837.49	21	NC	32
688			min	-0.025	19	-1.583	7	-0.004	24	-0.007	7	280.909	4	NC	1
689		5	max	0.026	13	-0.006	21	0.006	15	-0.002	21	NC	32	NC	32
690			min	-0.025	19	-0.012	7	-0.005	21	-0.006	7	NC	1	NC	1
691	F1_J60	1	max	0.028	13	0.215	7	0.005	14	-0.002	21	NC	32	NC	32
692			min	-0.027	19	0.077	21	-0.005	24	-0.006	7	NC	1	NC	1
693		2	max	0.028	13	-0.422	23	0.005	14	-0.002	21	824.285	23	NC	32
694			min	-0.027	19	-1.269	5	-0.005	24	-0.005	7	275.955	4	NC	1
695		3	max	0.028	13	-0.635	21	0.005	14	-0.002	21	587.303	24	NC	32
696			min	-0.027	19	-1.902	7	-0.004	24	-0.005	7	196.618	4	NC	1
697		4	max	0.028	13	-0.463	21	0.005	14	-0.001	21	824.285	24	NC	32
698			min	-0.027	19	-1.383	7	-0.004	24	-0.004	7	275.955	4	NC	1
699		5	max	0.028	13	-0.006	21	0.006	15	-0.001	21	NC	32	NC	32
700			min	-0.027	19	-0.012	7	-0.005	21	-0.004	7	NC	1	NC	1
701	F1_J61	1	max	0.029	13	-0.128	23	0.005	14	0.008	7	NC	32	NC	32
702			min	-0.028	19	-0.379	5	-0.005	24	0.003	21	NC	1	NC	1
703		2	max	0.029	13	-0.576	23	0.005	14	0.007	7	824.285	24	NC	32
704			min	-0.028	19	-1.715	5	-0.005	24	0.003	21	275.955	5	NC	1
705		3	max	0.029	13	-0.738	21	0.005	14	0.007	7	587.303	22	NC	32
706			min	-0.028	19	-2.199	7	-0.004	24	0.002	21	196.618	4	NC	1
707		4	max	0.029	13	-0.515	21	0.005	14	0.006	7	824.285	24	NC	32
708			min	-0.028	19	-1.531	7	-0.004	24	0.002	21	275.955	6	NC	1
709		5	max	0.029	13	-0.006	21	0.006	15	0.005	7	NC	32	NC	32
710			min	-0.028	19	-0.012	7	-0.005	21	0.002	21	NC	1	NC	1
711	F1_J62	1	max	0.03	13	-0.255	23	0.005	14	0.003	7	NC	32	NC	32
712			min	-0.029	19	-0.743	5	-0.005	24	0.001	21	NC	1	NC	1
713		2	max	0.03	13	-0.671	23	0.005	14	0.003	7	824.285	24	NC	32
714			min	-0.029	19	-1.988	5	-0.005	24	0.001	21	275.955	4	NC	1
715		3	max	0.03	13	-0.801	21	0.005	14	0.003	7	587.303	32	NC	32
716			min	-0.029	19	-2.381	7	-0.004	24	0.001	21	196.618	5	NC	1
717		4	max	0.03	13	-0.546	21	0.005	14	0.002	7	824.285	24	NC	32
718			min	-0.029	19	-1.623	7	-0.004	24	0.001	21	275.955	6	NC	1
719		5	max	0.03	13	-0.006	21	0.006	15	0.002	7	NC	32	NC	32
720			min	-0.029	19	-0.012	7	-0.005	21	0.001	21	NC	1	NC	1
721	F1_J63	1	max	0.031	13	-0.261	23	0.005	14	-0.001	23	NC	32	NC	32
722			min	-0.03	19	-0.76	5	-0.005	24	-0.003	5	NC	1	NC	1
723		2	max	0.031	13	-0.675	23	0.005	14	-0.001	23	824.285	32	NC	32
724			min	-0.03	19	-2.001	5	-0.005	24	-0.002	5	275.955	7	NC	1
725		3	max	0.031	13	-0.804	22	0.005	14	-0.001	23	587.303	22	NC	32
726			min	-0.03	19	-2.39	8	-0.004	24	-0.002	5	196.618	5	NC	1
727		4	max	0.031	13	-0.548	21	0.005	14	-0.001	23	824.285	22	NC	32
728			min	-0.03	19	-1.627	7	-0.004	24	-0.002	5	275.955	4	NC	1
729		5	max	0.031	13	-0.006	21	0.006	15	-0.001	23	NC	32	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
730			min	-0.03	19	-0.012	7	-0.005	21	-0.002	5	NC	1	NC	1
731	F1_J64	1	max	0.032	13	-0.147	23	0.005	14	-0.003	23	NC	32	NC	32
732			min	-0.031	19	-0.429	5	-0.005	24	-0.008	5	NC	1	NC	1
733		2	max	0.032	13	-0.59	24	0.005	14	-0.002	23	824.285	24	NC	32
734			min	-0.031	19	-1.752	6	-0.005	24	-0.007	5	275.955	4	NC	1
735		3	max	0.032	13	-0.748	24	0.005	14	-0.002	23	587.303	24	NC	32
736			min	-0.031	19	-2.224	6	-0.004	24	-0.006	5	196.618	5	NC	1
737		4	max	0.032	13	-0.519	24	0.005	14	-0.002	23	824.285	23	NC	32
738			min	-0.031	19	-1.544	6	-0.004	24	-0.005	5	275.955	4	NC	1
739		5	max	0.032	13	-0.006	24	0.006	15	-0.002	23	NC	32	NC	32
740			min	-0.031	19	-0.012	6	-0.005	21	-0.005	5	NC	1	NC	1
741	F1_J65	1	max	0.033	13	0.131	7	0.005	14	0.004	7	NC	32	NC	32
742			min	-0.032	19	0.046	21	-0.005	24	0.001	21	NC	1	NC	1
743		2	max	0.033	13	-0.445	21	0.005	14	0.004	7	824.285	32	NC	32
744			min	-0.032	19	-1.332	7	-0.005	24	0.001	21	275.955	4	NC	1
745		3	max	0.033	13	-0.651	21	0.005	14	0.003	7	587.303	32	NC	32
746			min	-0.032	19	-1.944	7	-0.004	24	0.001	21	196.618	4	NC	1
747		4	max	0.033	13	-0.471	21	0.005	14	0.003	7	824.285	32	NC	32
748			min	-0.032	19	-1.404	7	-0.004	24	0.001	21	275.955	5	NC	1
749		5	max	0.033	13	-0.006	21	0.006	15	0.002	7	NC	32	NC	32
750			min	-0.032	19	-0.012	7	-0.005	21	0.001	21	NC	1	NC	1
751	F1_J66	1	max	0.034	13	-0.244	21	0.005	14	0.01	7	NC	32	NC	32
752			min	-0.033	19	-0.706	7	-0.005	24	0.003	21	NC	1	NC	1
753		2	max	0.034	13	-0.662	22	0.005	14	0.009	7	824.285	23	NC	32
754			min	-0.033	19	-1.96	8	-0.005	24	0.003	21	275.955	5	NC	1
755		3	max	0.034	13	-0.796	22	0.005	14	0.008	7	587.303	23	NC	32
756			min	-0.033	19	-2.363	8	-0.004	24	0.003	21	196.618	8	NC	1
757		4	max	0.034	13	-0.544	22	0.005	14	0.007	7	824.285	23	NC	32
758			min	-0.033	19	-1.613	8	-0.004	24	0.002	21	275.955	4	NC	1
759		5	max	0.034	13	-0.006	22	0.006	15	0.006	7	NC	32	NC	32
760			min	-0.033	19	-0.012	8	-0.005	21	0.002	21	NC	1	NC	1
761	F1_J67	1	max	0.035	13	-0.443	24	0.005	14	0.008	5	NC	32	NC	32
762			min	-0.034	19	-1.282	6	-0.005	24	0.003	23	NC	1	NC	1
763		2	max	0.035	13	-0.812	24	0.005	14	0.007	5	824.285	21	NC	32
764			min	-0.034	19	-2.392	6	-0.005	24	0.002	23	275.955	4	NC	1
765		3	max	0.035	13	-0.895	24	0.005	14	0.006	5	587.303	32	NC	32
766			min	-0.034	19	-2.651	6	-0.004	24	0.002	23	196.618	7	NC	1
767		4	max	0.035	13	-0.593	24	0.005	14	0.006	5	824.285	22	NC	32
768			min	-0.034	19	-1.757	6	-0.004	24	0.002	23	275.955	8	NC	1
769		5	max	0.035	13	-0.006	24	0.006	15	0.005	5	NC	32	NC	32
770			min	-0.034	19	-0.012	6	-0.005	21	0.002	23	NC	1	NC	1
771	F1_J68	1	max	0.036	13	-0.563	24	0.005	14	0.003	5	NC	32	NC	32
772			min	-0.035	19	-1.63	4	-0.005	24	0.001	23	NC	1	NC	1
773		2	max	0.036	13	-0.902	22	0.005	14	0.003	5	824.285	32	NC	32
774			min	-0.035	19	-2.653	8	-0.005	24	0.001	23	275.955	5	NC	1
775		3	max	0.036	13	-0.955	22	0.005	14	0.002	5	587.303	32	NC	32
776			min	-0.035	19	-2.825	8	-0.004	24	0.001	23	196.618	7	NC	1
777		4	max	0.036	13	-0.623	22	0.005	14	0.002	5	824.285	32	NC	32
778			min	-0.035	19	-1.844	8	-0.004	24	0.001	23	275.955	6	NC	1
779		5	max	0.036	13	-0.006	22	0.006	15	0.002	5	NC	32	NC	32
780			min	-0.035	19	-0.012	8	-0.005	21	0.001	23	NC	1	NC	1
781	F1_J69	1	max	0.037	13	-0.563	23	0.005	14	-0.001	21	NC	32	NC	32
782			min	-0.036	19	-1.63	4	-0.005	24	-0.003	7	NC	1	NC	1
783		2	max	0.037	13	-0.902	24	0.005	14	-0.001	21	824.285	24	NC	32
784			min	-0.036	19	-2.653	6	-0.005	24	-0.003	7	275.955	5	NC	1
785		3	max	0.037	13	-0.955	24	0.005	14	-0.001	21	587.303	24	NC	32
786			min	-0.036	19	-2.825	6	-0.004	24	-0.002	7	196.618	6	NC	1
787		4	max	0.037	13	-0.623	24	0.005	14	-0.001	21	824.285	22	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
788			min	-0.036	19	-1.844	6	-0.004	24	-0.002	7	275.955	5	NC	1
789		5	max	0.037	13	-0.006	24	0.006	15	-0.001	21	NC	32	NC	32
790			min	-0.036	19	-0.012	6	-0.005	21	-0.002	7	NC	1	NC	1
791	F1_J70	1	max	0.038	13	-0.443	23	0.005	14	-0.003	24	NC	32	NC	32
792			min	-0.037	19	-1.282	5	-0.005	24	-0.008	6	NC	1	NC	1
793		2	max	0.038	13	-0.812	24	0.005	14	-0.002	24	824.285	21	NC	32
794			min	-0.037	19	-2.392	6	-0.005	24	-0.007	6	275.955	8	NC	1
795		3	max	0.038	13	-0.895	24	0.005	14	-0.002	24	587.303	23	NC	32
796			min	-0.037	19	-2.651	6	-0.004	24	-0.006	6	196.618	6	NC	1
797		4	max	0.038	13	-0.593	24	0.005	14	-0.002	24	824.285	23	NC	32
798			min	-0.037	19	-1.757	6	-0.004	24	-0.006	6	275.955	6	NC	1
799		5	max	0.038	13	-0.006	24	0.006	15	-0.002	24	NC	32	NC	32
800			min	-0.037	19	-0.012	6	-0.005	21	-0.005	6	NC	1	NC	1
801	F1_J71	1	max	0.039	13	-0.244	23	0.005	14	-0.003	23	NC	32	NC	32
802			min	-0.038	19	-0.706	5	-0.005	24	-0.01	5	NC	1	NC	1
803		2	max	0.039	13	-0.662	24	0.005	14	-0.003	23	824.285	23	NC	32
804			min	-0.038	19	-1.96	6	-0.005	24	-0.009	5	275.955	5	NC	1
805		3	max	0.039	13	-0.796	24	0.005	14	-0.003	23	587.303	23	NC	32
806			min	-0.038	19	-2.363	6	-0.004	24	-0.008	5	196.618	5	NC	1
807		4	max	0.039	13	-0.544	24	0.005	14	-0.002	23	824.285	23	NC	32
808			min	-0.038	19	-1.613	6	-0.004	24	-0.007	5	275.955	5	NC	1
809		5	max	0.039	13	-0.006	24	0.006	15	-0.002	23	NC	32	NC	32
810			min	-0.038	19	-0.012	6	-0.005	21	-0.006	5	NC	1	NC	1
811	F1_J72	1	max	0.041	13	0.131	5	0.005	14	-0.001	23	NC	32	NC	32
812			min	-0.04	19	0.046	23	-0.005	24	-0.004	5	NC	1	NC	1
813		2	max	0.041	13	-0.445	21	0.005	14	-0.001	23	824.285	23	NC	32
814			min	-0.04	19	-1.332	7	-0.005	24	-0.004	5	275.955	4	NC	1
815		3	max	0.041	13	-0.651	21	0.005	14	-0.001	23	587.303	24	NC	32
816			min	-0.04	19	-1.944	7	-0.004	24	-0.003	5	196.618	4	NC	1
817		4	max	0.041	13	-0.471	21	0.005	14	-0.001	23	824.285	23	NC	32
818			min	-0.04	19	-1.404	7	-0.004	24	-0.003	5	275.955	4	NC	1
819		5	max	0.041	13	-0.006	21	0.006	15	-0.001	23	NC	32	NC	32
820			min	-0.04	19	-0.012	7	-0.005	21	-0.002	5	NC	1	NC	1
821	F1_J73	1	max	0.042	13	-0.147	22	0.005	14	0.008	5	NC	32	NC	32
822			min	-0.041	19	-0.426	4	-0.005	24	0.003	23	NC	1	NC	1
823		2	max	0.042	13	-0.59	21	0.005	14	0.007	5	824.285	32	NC	32
824			min	-0.041	19	-1.751	7	-0.005	24	0.002	23	275.955	5	NC	1
825		3	max	0.042	13	-0.747	21	0.005	14	0.006	5	587.303	24	NC	32
826			min	-0.041	19	-2.223	7	-0.004	24	0.002	23	196.618	4	NC	1
827		4	max	0.042	13	-0.519	21	0.005	14	0.005	5	824.285	24	NC	32
828			min	-0.041	19	-1.543	7	-0.004	24	0.002	23	275.955	6	NC	1
829		5	max	0.042	13	-0.006	21	0.006	15	0.005	5	NC	32	NC	32
830			min	-0.041	19	-0.012	7	-0.005	21	0.002	23	NC	1	NC	1
831	F1_J74	1	max	0.043	13	-0.26	23	0.005	14	0.003	5	NC	32	NC	32
832			min	-0.041	19	-0.755	5	-0.005	24	0.001	23	NC	1	NC	1
833		2	max	0.043	13	-0.675	21	0.005	14	0.002	5	824.285	32	NC	32
834			min	-0.041	19	-1.997	7	-0.005	24	0.001	23	275.955	5	NC	1
835		3	max	0.043	13	-0.804	21	0.005	14	0.002	5	587.303	32	NC	32
836			min	-0.041	19	-2.387	7	-0.004	24	0.001	23	196.618	4	NC	1
837		4	max	0.043	13	-0.548	21	0.005	14	0.002	5	824.285	32	NC	32
838			min	-0.041	19	-1.626	7	-0.004	24	0.001	23	275.955	7	NC	1
839		5	max	0.043	13	-0.006	21	0.006	15	0.002	5	NC	32	NC	32
840			min	-0.041	19	-0.012	7	-0.005	21	0.001	23	NC	1	NC	1
841	F1_J75	1	max	0.044	13	-0.253	23	0.005	14	-0.001	21	NC	32	NC	32
842			min	-0.042	19	-0.736	5	-0.005	24	-0.003	7	NC	1	NC	1
843		2	max	0.044	13	-0.669	21	0.005	14	-0.001	21	824.285	32	NC	32
844			min	-0.042	19	-1.983	7	-0.005	24	-0.003	7	275.955	4	NC	1
845		3	max	0.044	13	-0.801	21	0.005	14	-0.001	21	587.303	24	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
846			min	-0.042	19	-2.378	7	-0.004	24	-0.003	7	196.618	4	NC	1
847		4	max	0.044	13	-0.546	21	0.005	14	-0.001	21	824.285	22	NC	32
848			min	-0.042	19	-1.621	7	-0.004	24	-0.002	7	275.955	5	NC	1
849		5	max	0.044	13	-0.006	21	0.006	15	-0.001	21	NC	32	NC	32
850			min	-0.042	19	-0.012	7	-0.005	21	-0.002	7	NC	1	NC	1
851	F1_J76	1	max	0.045	13	-0.126	23	0.005	14	-0.003	21	NC	32	NC	32
852			min	-0.043	19	-0.368	5	-0.005	24	-0.008	7	NC	1	NC	1
853		2	max	0.045	13	-0.574	21	0.005	14	-0.003	21	824.285	22	NC	32
854			min	-0.043	19	-1.707	7	-0.005	24	-0.008	7	275.955	4	NC	1
855		3	max	0.045	13	-0.737	21	0.005	14	-0.002	21	587.303	22	NC	32
856			min	-0.043	19	-2.194	7	-0.004	24	-0.007	7	196.618	5	NC	1
857		4	max	0.045	13	-0.514	21	0.005	14	-0.002	21	824.285	22	NC	32
858			min	-0.043	19	-1.529	7	-0.004	24	-0.006	7	275.955	4	NC	1
859		5	max	0.045	13	-0.006	21	0.006	15	-0.002	21	NC	32	NC	32
860			min	-0.043	19	-0.012	7	-0.005	21	-0.005	7	NC	1	NC	1
861	F1_J77	1	max	0.046	13	0.228	7	0.005	14	0.006	7	NC	32	NC	32
862			min	-0.044	19	0.08	21	-0.005	24	0.002	21	NC	1	NC	1
863		2	max	0.046	13	-0.42	21	0.005	14	0.005	7	824.285	32	NC	32
864			min	-0.044	19	-1.26	7	-0.005	24	0.002	21	275.955	4	NC	1
865		3	max	0.046	13	-0.634	21	0.005	14	0.005	7	587.303	32	NC	32
866			min	-0.044	19	-1.896	7	-0.004	24	0.002	21	196.618	4	NC	1
867		4	max	0.046	13	-0.463	21	0.005	14	0.004	7	824.285	32	NC	32
868			min	-0.044	19	-1.38	7	-0.004	24	0.001	21	275.955	7	NC	1
869		5	max	0.046	13	-0.006	21	0.006	15	0.004	7	NC	32	NC	32
870			min	-0.044	19	-0.012	7	-0.005	21	0.001	21	NC	1	NC	1
871	F1_J78	1	max	0.048	13	-0.242	21	0.005	14	0.009	5	NC	32	NC	32
872			min	-0.046	19	-0.697	8	-0.005	24	0.003	22	NC	1	NC	1
873		2	max	0.048	13	-0.654	21	0.005	14	0.009	5	837.49	32	NC	32
874			min	-0.046	19	-1.928	7	-0.005	24	0.003	22	280.909	4	NC	1
875		3	max	0.048	13	-0.784	21	0.005	14	0.008	5	596.712	21	NC	32
876			min	-0.046	19	-2.323	7	-0.004	24	0.003	22	200.147	8	NC	1
877		4	max	0.048	13	-0.536	21	0.005	14	0.007	5	837.49	32	NC	32
878			min	-0.046	19	-1.586	7	-0.004	24	0.002	22	280.909	5	NC	1
879		5	max	0.048	13	-0.006	21	0.006	15	0.006	5	NC	32	NC	32
880			min	-0.046	19	-0.012	7	-0.005	21	0.002	22	NC	1	NC	1
881	F1_J79	1	max	0.049	13	-0.427	23	0.005	14	0.008	5	NC	32	NC	32
882			min	-0.047	19	-1.23	5	-0.005	24	0.003	23	NC	1	NC	1
883		2	max	0.049	13	-0.792	21	0.005	14	0.007	5	837.49	21	NC	32
884			min	-0.047	19	-2.328	7	-0.005	24	0.002	23	280.909	4	NC	1
885		3	max	0.049	13	-0.877	21	0.005	14	0.006	5	596.712	32	NC	32
886			min	-0.047	19	-2.589	7	-0.004	24	0.002	23	200.147	8	NC	1
887		4	max	0.049	13	-0.582	21	0.005	14	0.005	5	837.49	32	NC	32
888			min	-0.047	19	-1.719	7	-0.004	24	0.002	23	280.909	4	NC	1
889		5	max	0.049	13	-0.006	21	0.006	15	0.005	5	NC	32	NC	32
890			min	-0.047	19	-0.012	7	-0.005	21	0.002	23	NC	1	NC	1
891	F1_J80	1	max	0.05	13	-0.545	23	0.005	14	0.003	5	NC	32	NC	32
892			min	-0.048	19	-1.573	5	-0.005	24	0.001	23	NC	1	NC	1
893		2	max	0.05	13	-0.881	23	0.005	14	0.003	5	837.49	23	NC	32
894			min	-0.048	19	-2.586	5	-0.005	24	0.001	23	280.909	4	NC	1
895		3	max	0.05	13	-0.936	23	0.005	14	0.003	5	596.712	23	NC	32
896			min	-0.048	19	-2.761	5	-0.004	24	0.001	23	200.147	7	NC	1
897		4	max	0.05	13	-0.611	23	0.005	14	0.002	5	837.49	24	NC	32
898			min	-0.048	19	-1.805	5	-0.004	24	0.001	23	280.909	4	NC	1
899		5	max	0.05	13	-0.006	23	0.006	15	0.002	5	NC	32	NC	32
900			min	-0.048	19	-0.012	5	-0.005	21	0.001	23	NC	1	NC	1
901	F1_J81	1	max	0.051	13	-0.563	23	0.005	14	-0.001	21	NC	32	NC	32
902			min	-0.049	19	-1.629	5	-0.005	24	-0.002	7	NC	1	NC	1
903		2	max	0.051	13	-0.894	23	0.005	14	-0.001	21	837.49	32	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
904			min	-0.049	19	-2.628	5	-0.005	24	-0.002	7	280.909	4	NC	1
905		3	max	0.051	13	-0.944	23	0.005	14	-0.001	21	596.712	24	NC	32
906			min	-0.049	19	-2.789	5	-0.004	24	-0.001	7	200.147	4	NC	1
907		4	max	0.051	13	-0.615	23	0.005	14	0	21	837.49	21	NC	32
908			min	-0.049	19	-1.82	5	-0.004	24	-0.001	7	280.909	4	NC	1
909		5	max	0.051	13	-0.005	23	0.006	15	0	21	NC	32	NC	32
910			min	-0.049	19	-0.013	5	-0.005	21	-0.001	7	NC	1	NC	1
911	F1_J82	1	max	0.052	13	-0.469	23	0.005	14	-0.002	21	NC	32	NC	32
912			min	-0.05	19	-1.366	5	-0.005	24	-0.007	7	NC	1	NC	1
913		2	max	0.052	13	-0.823	23	0.005	14	-0.002	21	837.49	24	NC	32
914			min	-0.05	19	-2.431	5	-0.005	24	-0.006	7	280.909	7	NC	1
915		3	max	0.052	13	-0.897	23	0.005	14	-0.002	21	596.712	32	NC	32
916			min	-0.05	19	-2.659	5	-0.004	24	-0.006	7	200.147	6	NC	1
917		4	max	0.052	13	-0.591	23	0.005	14	-0.002	21	837.49	23	NC	32
918			min	-0.05	19	-1.755	5	-0.004	24	-0.005	7	280.909	6	NC	1
919		5	max	0.052	13	-0.004	23	0.006	15	-0.002	21	NC	32	NC	32
920			min	-0.05	19	-0.014	5	-0.005	21	-0.004	7	NC	1	NC	1
921	F1_J83	1	max	0.053	13	-0.278	23	0.005	14	-0.004	21	NC	32	NC	32
922			min	-0.05	19	-0.823	5	-0.005	24	-0.011	7	NC	1	NC	1
923		2	max	0.053	13	-0.679	23	0.005	14	-0.003	21	837.49	22	NC	32
924			min	-0.05	19	-2.024	5	-0.005	24	-0.01	7	280.909	5	NC	1
925		3	max	0.053	13	-0.8	23	0.005	14	-0.003	21	596.712	24	NC	32
926			min	-0.05	19	-2.389	5	-0.004	24	-0.009	7	200.147	4	NC	1
927		4	max	0.053	13	-0.541	23	0.005	14	-0.003	21	837.49	24	NC	32
928			min	-0.05	19	-1.621	5	-0.004	24	-0.008	7	280.909	6	NC	1
929		5	max	0.053	13	-0.001	23	0.006	15	-0.002	21	NC	32	NC	32
930			min	-0.05	19	-0.018	5	-0.005	21	-0.007	7	NC	1	NC	1
931	F1_J84	1	max	0.048	13	-0.242	21	0.008	13	0.009	7	NC	32	NC	32
932			min	-0.046	19	-0.697	7	-0.006	23	0.003	21	NC	1	NC	1
933		2	max	0.048	13	-0.742	21	0.006	14	0.009	7	800.362	22	NC	32
934			min	-0.046	19	-2.187	7	-0.005	24	0.003	21	268.455	7	NC	1
935		3	max	0.048	13	-0.944	21	0.006	14	0.009	7	570.258	23	NC	32
936			min	-0.046	19	-2.788	7	-0.005	24	0.003	21	191.274	4	NC	1
937		4	max	0.048	13	-0.742	21	0.006	14	0.009	7	800.362	22	NC	32
938			min	-0.046	19	-2.187	7	-0.005	24	0.003	21	268.455	4	NC	1
939		5	max	0.048	13	-0.242	21	0.005	14	0.009	5	NC	32	NC	32
940			min	-0.046	19	-0.697	8	-0.005	24	0.003	22	NC	1	NC	1
941	F1_J85	1	max	0.049	13	-0.427	21	0.008	13	0.008	7	NC	32	NC	32
942			min	-0.047	19	-1.23	7	-0.006	23	0.003	21	NC	1	NC	1
943		2	max	0.049	13	-0.927	21	0.006	14	0.008	7	800.362	24	NC	32
944			min	-0.047	19	-2.72	7	-0.005	24	0.003	21	268.455	7	NC	1
945		3	max	0.049	13	-1.128	21	0.006	14	0.008	7	570.258	24	NC	32
946			min	-0.047	19	-3.321	7	-0.005	24	0.003	21	191.274	4	NC	1
947		4	max	0.049	13	-0.927	21	0.006	14	0.008	7	800.362	24	NC	32
948			min	-0.047	19	-2.72	7	-0.005	24	0.003	21	268.455	6	NC	1
949		5	max	0.049	13	-0.427	23	0.005	14	0.008	5	NC	32	NC	32
950			min	-0.047	19	-1.23	5	-0.005	24	0.003	23	NC	1	NC	1
951	F1_J86	1	max	0.05	13	-0.545	21	0.008	13	0.003	7	NC	32	NC	32
952			min	-0.048	19	-1.573	7	-0.006	23	0.001	21	NC	1	NC	1
953		2	max	0.05	13	-1.045	21	0.006	14	0.003	7	800.362	23	NC	32
954			min	-0.048	19	-3.063	7	-0.005	24	0.001	21	268.455	5	NC	1
955		3	max	0.05	13	-1.246	21	0.006	14	0.003	7	570.258	22	NC	32
956			min	-0.048	19	-3.664	7	-0.005	24	0.001	21	191.274	5	NC	1
957		4	max	0.05	13	-1.045	21	0.006	14	0.003	7	800.362	22	NC	32
958			min	-0.048	19	-3.063	7	-0.005	24	0.001	21	268.455	5	NC	1
959		5	max	0.05	13	-0.545	23	0.005	14	0.003	5	NC	32	NC	32
960			min	-0.048	19	-1.573	5	-0.005	24	0.001	23	NC	1	NC	1
961	F1_J87	1	max	0.051	13	-0.563	21	0.008	13	-0.001	23	NC	32	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
962			min	-0.049	19	-1.629	7	-0.006	23	-0.002	5	NC	1	NC	1
963		2	max	0.051	13	-1.062	21	0.006	14	-0.001	23	800.362	23	NC	32
964			min	-0.049	19	-3.119	7	-0.005	24	-0.002	5	268.455	5	NC	1
965		3	max	0.051	13	-1.264	21	0.006	14	-0.001	23	570.258	23	NC	32
966			min	-0.049	19	-3.72	7	-0.005	24	-0.002	5	191.274	4	NC	1
967		4	max	0.051	13	-1.063	21	0.006	14	-0.001	23	800.362	32	NC	32
968			min	-0.049	19	-3.119	7	-0.005	24	-0.002	5	268.455	4	NC	1
969		5	max	0.051	13	-0.563	23	0.005	14	-0.001	21	NC	32	NC	32
970			min	-0.049	19	-1.629	5	-0.005	24	-0.002	7	NC	1	NC	1
971	F1_J88	1	max	0.052	13	-0.469	21	0.008	13	-0.002	23	NC	32	NC	32
972			min	-0.05	19	-1.366	7	-0.006	23	-0.007	5	NC	1	NC	1
973		2	max	0.052	13	-0.969	21	0.006	14	-0.002	23	800.362	32	NC	32
974			min	-0.05	19	-2.856	7	-0.005	24	-0.007	5	268.455	8	NC	1
975		3	max	0.052	13	-1.171	21	0.006	14	-0.002	23	570.258	32	NC	32
976			min	-0.05	19	-3.457	7	-0.005	24	-0.007	5	191.274	4	NC	1
977		4	max	0.052	13	-0.969	21	0.006	14	-0.002	23	800.362	32	NC	32
978			min	-0.05	19	-2.856	7	-0.005	24	-0.007	5	268.455	4	NC	1
979		5	max	0.052	13	-0.469	23	0.005	14	-0.002	21	NC	32	NC	32
980			min	-0.05	19	-1.366	5	-0.005	24	-0.007	7	NC	1	NC	1
981	F1_J89	1	max	0.053	13	-0.278	21	0.008	13	-0.004	23	NC	32	NC	32
982			min	-0.05	19	-0.822	7	-0.006	23	-0.011	5	NC	1	NC	1
983		2	max	0.053	13	-0.778	21	0.006	14	-0.004	23	800.362	32	NC	32
984			min	-0.05	19	-2.312	7	-0.005	24	-0.011	5	268.455	5	NC	1
985		3	max	0.053	13	-0.979	21	0.006	14	-0.004	23	570.258	21	NC	32
986			min	-0.05	19	-2.914	7	-0.005	24	-0.011	5	191.274	4	NC	1
987		4	max	0.053	13	-0.778	21	0.006	14	-0.004	23	800.362	21	NC	32
988			min	-0.05	19	-2.313	7	-0.005	24	-0.011	5	268.455	4	NC	1
989		5	max	0.053	13	-0.278	23	0.005	14	-0.004	21	NC	32	NC	32
990			min	-0.05	19	-0.823	5	-0.005	24	-0.011	7	NC	1	NC	1
991	F1_J90	1	max	0.041	13	0.131	5	0.008	13	-0.001	23	NC	32	NC	32
992			min	-0.04	19	0.046	23	-0.006	23	-0.004	5	NC	1	NC	1
993		2	max	0.041	13	-0.462	21	0.006	14	-0.001	23	787.742	23	NC	32
994			min	-0.04	19	-1.386	7	-0.005	24	-0.004	5	263.721	7	NC	1
995		3	max	0.041	13	-0.667	21	0.006	14	-0.001	23	561.267	22	NC	32
996			min	-0.04	19	-1.998	7	-0.005	24	-0.004	5	187.901	6	NC	1
997		4	max	0.041	13	-0.462	21	0.006	14	-0.001	23	787.742	22	NC	32
998			min	-0.04	19	-1.386	7	-0.005	24	-0.004	5	263.721	4	NC	1
999		5	max	0.041	13	0.131	5	0.005	14	-0.001	23	NC	32	NC	32
1000			min	-0.04	19	0.046	23	-0.005	24	-0.004	5	NC	1	NC	1
1001	F1_J91	1	max	0.042	13	-0.147	23	0.008	13	0.008	5	NC	32	NC	32
1002			min	-0.041	19	-0.426	5	-0.006	23	0.003	23	NC	1	NC	1
1003		2	max	0.042	13	-0.655	23	0.006	14	0.008	5	787.742	32	NC	32
1004			min	-0.041	19	-1.943	5	-0.005	24	0.003	23	263.721	4	NC	1
1005		3	max	0.042	13	-0.859	23	0.006	14	0.008	5	561.267	21	NC	32
1006			min	-0.041	19	-2.555	5	-0.005	24	0.003	23	187.901	5	NC	1
1007		4	max	0.042	13	-0.655	23	0.006	14	0.008	5	787.742	21	NC	32
1008			min	-0.041	19	-1.943	5	-0.005	24	0.003	23	263.721	5	NC	1
1009		5	max	0.042	13	-0.147	22	0.005	14	0.008	5	NC	32	NC	32
1010			min	-0.041	19	-0.426	4	-0.005	24	0.003	23	NC	1	NC	1
1011	F1_J92	1	max	0.043	13	-0.26	23	0.008	13	0.003	5	NC	32	NC	32
1012			min	-0.041	19	-0.755	5	-0.006	23	0.001	23	NC	1	NC	1
1013		2	max	0.043	13	-0.768	23	0.006	14	0.003	5	787.742	32	NC	32
1014			min	-0.041	19	-2.272	5	-0.005	24	0.001	23	263.721	5	NC	1
1015		3	max	0.043	13	-0.973	23	0.006	14	0.003	5	561.267	24	NC	32
1016			min	-0.041	19	-2.884	5	-0.005	24	0.001	23	187.901	6	NC	1
1017		4	max	0.043	13	-0.768	23	0.006	14	0.003	5	787.742	32	NC	32
1018			min	-0.041	19	-2.272	5	-0.005	24	0.001	23	263.721	4	NC	1
1019		5	max	0.043	13	-0.26	23	0.005	14	0.003	5	NC	32	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
1020			min	-0.041	19	-0.755	5	-0.005	24	0.001	23	NC	1	NC	1
1021	F1_J93	1	max	0.044	13	-0.253	23	0.008	13	-0.001	21	NC	32	NC	32
1022			min	-0.042	19	-0.736	5	-0.006	23	-0.003	7	NC	1	NC	1
1023		2	max	0.044	13	-0.761	23	0.006	14	-0.001	21	787.742	21	NC	32
1024			min	-0.042	19	-2.252	5	-0.005	24	-0.003	7	263.721	5	NC	1
1025		3	max	0.044	13	-0.966	23	0.006	14	-0.001	21	561.267	21	NC	32
1026			min	-0.042	19	-2.864	5	-0.005	24	-0.003	7	187.901	5	NC	1
1027		4	max	0.044	13	-0.761	23	0.006	14	-0.001	21	787.742	21	NC	32
1028			min	-0.042	19	-2.252	5	-0.005	24	-0.003	7	263.721	4	NC	1
1029		5	max	0.044	13	-0.253	23	0.005	14	-0.001	21	NC	32	NC	32
1030			min	-0.042	19	-0.736	5	-0.005	24	-0.003	7	NC	1	NC	1
1031	F1_J94	1	max	0.045	13	-0.126	23	0.008	13	-0.003	21	NC	32	NC	32
1032			min	-0.043	19	-0.369	5	-0.006	23	-0.008	7	NC	1	NC	1
1033		2	max	0.045	13	-0.634	23	0.006	14	-0.003	21	787.742	22	NC	32
1034			min	-0.043	19	-1.885	5	-0.005	24	-0.008	7	263.721	6	NC	1
1035		3	max	0.045	13	-0.839	23	0.006	14	-0.003	21	561.267	32	NC	32
1036			min	-0.043	19	-2.497	5	-0.005	24	-0.008	7	187.901	4	NC	1
1037		4	max	0.045	13	-0.634	23	0.006	14	-0.003	21	787.742	23	NC	32
1038			min	-0.043	19	-1.885	5	-0.005	24	-0.008	7	263.721	4	NC	1
1039		5	max	0.045	13	-0.126	23	0.005	14	-0.003	21	NC	32	NC	32
1040			min	-0.043	19	-0.368	5	-0.005	24	-0.008	7	NC	1	NC	1
1041	F1_J95	1	max	0.046	13	0.228	7	0.008	13	0.006	7	NC	32	NC	32
1042			min	-0.044	19	0.08	21	-0.006	23	0.002	21	NC	1	NC	1
1043		2	max	0.046	13	-0.428	23	0.006	14	0.006	7	787.742	24	NC	32
1044			min	-0.044	19	-1.289	5	-0.005	24	0.002	21	263.721	4	NC	1
1045		3	max	0.046	13	-0.633	23	0.006	14	0.006	7	561.267	24	NC	32
1046			min	-0.044	19	-1.901	5	-0.005	24	0.002	21	187.901	5	NC	1
1047		4	max	0.046	13	-0.428	23	0.006	14	0.006	7	787.742	24	NC	32
1048			min	-0.044	19	-1.289	5	-0.005	24	0.002	21	263.721	6	NC	1
1049		5	max	0.046	13	0.228	7	0.005	14	0.006	7	NC	32	NC	32
1050			min	-0.044	19	0.08	21	-0.005	24	0.002	21	NC	1	NC	1
1051	F1_J96	1	max	0.034	13	-0.244	23	0.008	13	0.01	5	NC	32	NC	32
1052			min	-0.033	19	-0.706	5	-0.006	23	0.003	23	NC	1	NC	1
1053		2	max	0.034	13	-0.752	23	0.006	14	0.01	5	787.742	32	NC	32
1054			min	-0.033	19	-2.222	5	-0.005	24	0.003	23	263.721	4	NC	1
1055		3	max	0.034	13	-0.956	23	0.006	14	0.01	5	561.267	24	NC	32
1056			min	-0.033	19	-2.834	5	-0.005	24	0.003	23	187.901	4	NC	1
1057		4	max	0.034	13	-0.752	23	0.006	14	0.01	5	787.742	24	NC	32
1058			min	-0.033	19	-2.222	5	-0.005	24	0.003	23	263.721	5	NC	1
1059		5	max	0.034	13	-0.244	21	0.005	14	0.01	7	NC	32	NC	32
1060			min	-0.033	19	-0.706	7	-0.005	24	0.003	21	NC	1	NC	1
1061	F1_J97	1	max	0.035	13	-0.443	23	0.008	13	0.008	5	NC	32	NC	32
1062			min	-0.034	19	-1.282	5	-0.006	23	0.003	23	NC	1	NC	1
1063		2	max	0.035	13	-0.951	23	0.006	14	0.008	5	787.742	22	NC	32
1064			min	-0.034	19	-2.799	5	-0.005	24	0.003	23	263.721	4	NC	1
1065		3	max	0.035	13	-1.156	23	0.006	14	0.008	5	561.267	32	NC	32
1066			min	-0.034	19	-3.411	5	-0.005	24	0.003	23	187.901	4	NC	1
1067		4	max	0.035	13	-0.951	23	0.006	14	0.008	5	787.742	32	NC	32
1068			min	-0.034	19	-2.799	5	-0.005	24	0.003	23	263.721	7	NC	1
1069		5	max	0.035	13	-0.443	24	0.005	14	0.008	5	NC	32	NC	32
1070			min	-0.034	19	-1.282	6	-0.005	24	0.003	23	NC	1	NC	1
1071	F1_J98	1	max	0.036	13	-0.563	23	0.008	13	0.003	5	NC	32	NC	32
1072			min	-0.035	19	-1.63	5	-0.006	23	0.001	23	NC	1	NC	1
1073		2	max	0.036	13	-1.071	23	0.006	14	0.003	5	787.742	32	NC	32
1074			min	-0.035	19	-3.147	5	-0.005	24	0.001	23	263.721	4	NC	1
1075		3	max	0.036	13	-1.276	23	0.006	14	0.003	5	561.267	21	NC	32
1076			min	-0.035	19	-3.759	5	-0.005	24	0.001	23	187.901	8	NC	1
1077		4	max	0.036	13	-1.071	23	0.006	14	0.003	5	787.742	32	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
1078			min	-0.035	19	-3.147	5	-0.005	24	0.001	23	263.721	4	NC	1
1079		5	max	0.036	13	-0.563	24	0.005	14	0.003	5	NC	32	NC	32
1080			min	-0.035	19	-1.63	4	-0.005	24	0.001	23	NC	1	NC	1
1081	F1_J99	1	max	0.037	13	-0.563	23	0.008	13	-0.001	21	NC	32	NC	32
1082			min	-0.036	19	-1.63	5	-0.006	23	-0.003	7	NC	1	NC	1
1083		2	max	0.037	13	-1.071	23	0.006	14	-0.001	21	787.742	24	NC	32
1084			min	-0.036	19	-3.147	5	-0.005	24	-0.003	7	263.721	4	NC	1
1085		3	max	0.037	13	-1.276	23	0.006	14	-0.001	21	561.267	21	NC	32
1086			min	-0.036	19	-3.759	5	-0.005	24	-0.003	7	187.901	8	NC	1
1087		4	max	0.037	13	-1.071	23	0.006	14	-0.001	21	787.742	23	NC	32
1088			min	-0.036	19	-3.147	5	-0.005	24	-0.003	7	263.721	8	NC	1
1089		5	max	0.037	13	-0.563	23	0.005	14	-0.001	21	NC	32	NC	32
1090			min	-0.036	19	-1.63	4	-0.005	24	-0.003	7	NC	1	NC	1
1091	F1_J100	1	max	0.038	13	-0.443	23	0.008	13	-0.003	23	NC	32	NC	32
1092			min	-0.037	19	-1.282	5	-0.006	23	-0.008	5	NC	1	NC	1
1093		2	max	0.038	13	-0.951	23	0.006	14	-0.003	23	787.742	21	NC	32
1094			min	-0.037	19	-2.799	5	-0.005	24	-0.008	5	263.721	4	NC	1
1095		3	max	0.038	13	-1.156	23	0.006	14	-0.003	23	561.267	32	NC	32
1096			min	-0.037	19	-3.411	5	-0.005	24	-0.008	5	187.901	4	NC	1
1097		4	max	0.038	13	-0.951	23	0.006	14	-0.003	23	787.742	24	NC	32
1098			min	-0.037	19	-2.799	5	-0.005	24	-0.008	5	263.721	4	NC	1
1099		5	max	0.038	13	-0.443	23	0.005	14	-0.003	24	NC	32	NC	32
1100			min	-0.037	19	-1.282	5	-0.005	24	-0.008	6	NC	1	NC	1
1101	F1_J101	1	max	0.039	13	-0.244	23	0.008	13	-0.003	23	NC	32	NC	32
1102			min	-0.038	19	-0.706	5	-0.006	23	-0.01	5	NC	1	NC	1
1103		2	max	0.039	13	-0.752	23	0.006	14	-0.003	23	787.742	32	NC	32
1104			min	-0.038	19	-2.222	5	-0.005	24	-0.01	5	263.721	4	NC	1
1105		3	max	0.039	13	-0.956	23	0.006	14	-0.003	23	561.267	21	NC	32
1106			min	-0.038	19	-2.834	5	-0.005	24	-0.01	5	187.901	6	NC	1
1107		4	max	0.039	13	-0.752	23	0.006	14	-0.003	23	787.742	23	NC	32
1108			min	-0.038	19	-2.222	5	-0.005	24	-0.01	5	263.721	6	NC	1
1109		5	max	0.039	13	-0.244	23	0.005	14	-0.003	23	NC	32	NC	32
1110			min	-0.038	19	-0.706	5	-0.005	24	-0.01	5	NC	1	NC	1
1111	F1_J102	1	max	0.028	13	0.215	5	0.008	13	-0.002	23	NC	32	NC	32
1112			min	-0.027	19	0.077	23	-0.006	23	-0.006	5	NC	1	NC	1
1113		2	max	0.028	13	-0.431	21	0.006	14	-0.002	23	787.742	32	NC	32
1114			min	-0.027	19	-1.302	7	-0.005	24	-0.006	5	263.721	4	NC	1
1115		3	max	0.028	13	-0.635	22	0.006	14	-0.002	24	561.267	32	NC	32
1116			min	-0.027	19	-1.914	8	-0.005	24	-0.006	6	187.901	5	NC	1
1117		4	max	0.028	13	-0.431	23	0.006	14	-0.002	21	787.742	22	NC	32
1118			min	-0.027	19	-1.302	5	-0.005	24	-0.006	7	263.721	5	NC	1
1119		5	max	0.028	13	0.215	7	0.005	14	-0.002	21	NC	32	NC	32
1120			min	-0.027	19	0.077	21	-0.005	24	-0.006	7	NC	1	NC	1
1121	F1_J103	1	max	0.029	13	-0.128	21	0.008	13	0.008	5	NC	32	NC	32
1122			min	-0.028	19	-0.379	7	-0.006	23	0.003	23	NC	1	NC	1
1123		2	max	0.029	13	-0.636	21	0.006	14	0.008	5	787.742	24	NC	32
1124			min	-0.028	19	-1.895	7	-0.005	24	0.003	23	263.721	4	NC	1
1125		3	max	0.029	13	-0.841	22	0.006	14	0.008	6	561.267	24	NC	32
1126			min	-0.028	19	-2.507	8	-0.005	24	0.003	24	187.901	6	NC	1
1127		4	max	0.029	13	-0.636	23	0.006	14	0.008	7	787.742	24	NC	32
1128			min	-0.028	19	-1.895	5	-0.005	24	0.003	21	263.721	6	NC	1
1129		5	max	0.029	13	-0.128	23	0.005	14	0.008	7	NC	32	NC	32
1130			min	-0.028	19	-0.379	5	-0.005	24	0.003	21	NC	1	NC	1
1131	F1_J104	1	max	0.03	13	-0.255	21	0.008	13	0.003	5	NC	32	NC	32
1132			min	-0.029	19	-0.743	7	-0.006	23	0.001	23	NC	1	NC	1
1133		2	max	0.03	13	-0.763	21	0.006	14	0.003	5	787.742	21	NC	32
1134			min	-0.029	19	-2.26	7	-0.005	24	0.001	23	263.721	4	NC	1
1135		3	max	0.03	13	-0.967	22	0.006	14	0.003	6	561.267	32	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
1136			min	-0.029	19	-2.872	8	-0.005	24	0.001	24	187.901	5	NC	1
1137		4	max	0.03	13	-0.763	23	0.006	14	0.003	7	787.742	22	NC	32
1138			min	-0.029	19	-2.26	5	-0.005	24	0.001	21	263.721	7	NC	1
1139		5	max	0.03	13	-0.255	23	0.005	14	0.003	7	NC	32	NC	32
1140			min	-0.029	19	-0.743	5	-0.005	24	0.001	21	NC	1	NC	1
1141	F1_J105	1	max	0.031	13	-0.261	21	0.008	13	-0.001	21	NC	32	NC	32
1142			min	-0.03	19	-0.76	7	-0.006	23	-0.003	7	NC	1	NC	1
1143		2	max	0.031	13	-0.769	21	0.006	14	-0.001	21	787.742	32	NC	32
1144			min	-0.03	19	-2.277	7	-0.005	24	-0.003	7	263.721	4	NC	1
1145		3	max	0.031	13	-0.974	22	0.006	14	-0.001	22	561.267	23	NC	32
1146			min	-0.03	19	-2.889	8	-0.005	24	-0.003	8	187.901	6	NC	1
1147		4	max	0.031	13	-0.769	23	0.006	14	-0.001	23	787.742	23	NC	32
1148			min	-0.03	19	-2.277	5	-0.005	24	-0.003	5	263.721	5	NC	1
1149		5	max	0.031	13	-0.261	23	0.005	14	-0.001	23	NC	32	NC	32
1150			min	-0.03	19	-0.76	5	-0.005	24	-0.003	5	NC	1	NC	1
1151	F1_J106	1	max	0.032	13	-0.147	21	0.008	13	-0.003	21	NC	32	NC	32
1152			min	-0.031	19	-0.429	7	-0.006	23	-0.008	7	NC	1	NC	1
1153		2	max	0.032	13	-0.655	21	0.006	14	-0.003	21	787.742	32	NC	32
1154			min	-0.031	19	-1.946	7	-0.005	24	-0.008	7	263.721	4	NC	1
1155		3	max	0.032	13	-0.86	22	0.006	14	-0.003	22	561.267	32	NC	32
1156			min	-0.031	19	-2.558	8	-0.005	24	-0.008	8	187.901	4	NC	1
1157		4	max	0.032	13	-0.655	23	0.006	14	-0.003	23	787.742	32	NC	32
1158			min	-0.031	19	-1.946	5	-0.005	24	-0.008	5	263.721	4	NC	1
1159		5	max	0.032	13	-0.147	23	0.005	14	-0.003	23	NC	32	NC	32
1160			min	-0.031	19	-0.429	5	-0.005	24	-0.008	5	NC	1	NC	1
1161	F1_J107	1	max	0.033	13	0.131	5	0.008	13	0.004	5	NC	32	NC	32
1162			min	-0.032	19	0.046	23	-0.006	23	0.001	23	NC	1	NC	1
1163		2	max	0.033	13	-0.462	21	0.006	14	0.004	5	787.742	24	NC	32
1164			min	-0.032	19	-1.386	7	-0.005	24	0.001	23	263.721	4	NC	1
1165		3	max	0.033	13	-0.667	21	0.006	14	0.004	5	561.267	22	NC	32
1166			min	-0.032	19	-1.998	7	-0.005	24	0.001	23	187.901	6	NC	1
1167		4	max	0.033	13	-0.462	21	0.006	14	0.004	5	787.742	21	NC	32
1168			min	-0.032	19	-1.386	7	-0.005	24	0.001	23	263.721	4	NC	1
1169		5	max	0.033	13	0.131	7	0.005	14	0.004	7	NC	32	NC	32
1170			min	-0.032	19	0.046	21	-0.005	24	0.001	21	NC	1	NC	1
1171	F1_J108	1	max	0.021	13	-0.263	23	0.008	13	0.011	7	NC	32	NC	32
1172			min	-0.021	15	-0.749	5	-0.006	23	0.004	21	NC	1	NC	1
1173		2	max	0.021	13	-0.763	23	0.006	14	0.011	7	800.362	24	NC	32
1174			min	-0.021	15	-2.239	5	-0.005	24	0.004	21	268.455	4	NC	1
1175		3	max	0.021	13	-0.965	24	0.006	14	0.011	8	570.258	21	NC	32
1176			min	-0.021	15	-2.84	6	-0.005	24	0.004	22	191.274	4	NC	1
1177		4	max	0.021	13	-0.763	21	0.006	14	0.011	5	800.362	32	NC	32
1178			min	-0.021	15	-2.239	7	-0.005	24	0.004	23	268.455	4	NC	1
1179		5	max	0.021	13	-0.263	21	0.005	14	0.011	5	NC	32	NC	32
1180			min	-0.021	15	-0.749	7	-0.005	24	0.004	23	NC	1	NC	1
1181	F1_J109	1	max	0.022	13	-0.457	23	0.008	13	0.007	7	NC	32	NC	32
1182			min	-0.022	15	-1.305	5	-0.006	23	0.002	21	NC	1	NC	1
1183		2	max	0.022	13	-0.957	23	0.006	14	0.007	7	800.362	32	NC	32
1184			min	-0.022	15	-2.795	5	-0.005	24	0.002	21	268.455	5	NC	1
1185		3	max	0.022	13	-1.158	24	0.006	14	0.007	8	570.258	32	NC	32
1186			min	-0.022	15	-3.396	6	-0.005	24	0.002	22	191.274	4	NC	1
1187		4	max	0.022	13	-0.957	21	0.006	14	0.007	5	800.362	21	NC	32
1188			min	-0.022	15	-2.794	7	-0.005	24	0.002	23	268.455	7	NC	1
1189		5	max	0.022	13	-0.457	21	0.005	14	0.007	5	NC	32	NC	32
1190			min	-0.022	15	-1.305	7	-0.005	24	0.002	23	NC	1	NC	1
1191	F1_J110	1	max	0.023	13	-0.553	23	0.008	13	0.002	7	NC	32	NC	32
1192			min	-0.023	19	-1.58	5	-0.006	23	0.001	21	NC	1	NC	1
1193		2	max	0.023	13	-1.053	23	0.006	14	0.002	7	800.362	32	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
1194			min	-0.023	19	-3.07	5	-0.005	24	0.001	21	268.455	7	NC	1
1195		3	max	0.023	13	-1.254	24	0.006	14	0.002	8	570.258	23	NC	32
1196			min	-0.023	19	-3.671	6	-0.005	24	0.001	22	191.274	5	NC	1
1197		4	max	0.023	13	-1.053	21	0.006	14	0.002	5	800.362	23	NC	32
1198			min	-0.023	19	-3.07	7	-0.005	24	0.001	23	268.455	6	NC	1
1199		5	max	0.023	13	-0.553	21	0.005	14	0.002	5	NC	32	NC	32
1200			min	-0.023	19	-1.58	7	-0.005	24	0.001	23	NC	1	NC	1
1201	F1_J111	1	max	0.024	13	-0.538	23	0.008	13	-0.001	23	NC	32	NC	32
1202			min	-0.023	19	-1.536	5	-0.006	23	-0.003	5	NC	1	NC	1
1203		2	max	0.024	13	-1.037	23	0.006	14	-0.001	23	800.362	24	NC	32
1204			min	-0.023	19	-3.026	5	-0.005	24	-0.003	5	268.455	4	NC	1
1205		3	max	0.024	13	-1.239	24	0.006	14	-0.001	24	570.258	32	NC	32
1206			min	-0.023	19	-3.627	6	-0.005	24	-0.003	6	191.274	4	NC	1
1207		4	max	0.024	13	-1.037	21	0.006	14	-0.001	21	800.362	32	NC	32
1208			min	-0.023	19	-3.026	7	-0.005	24	-0.003	7	268.455	6	NC	1
1209		5	max	0.024	13	-0.538	21	0.005	14	-0.001	21	NC	32	NC	32
1210			min	-0.023	19	-1.536	7	-0.005	24	-0.003	7	NC	1	NC	1
1211	F1_J112	1	max	0.025	13	-0.422	23	0.008	13	-0.003	23	NC	32	NC	32
1212			min	-0.024	19	-1.205	5	-0.006	23	-0.007	5	NC	1	NC	1
1213		2	max	0.025	13	-0.922	23	0.006	14	-0.003	23	800.362	23	NC	32
1214			min	-0.024	19	-2.695	5	-0.005	24	-0.007	5	268.455	4	NC	1
1215		3	max	0.025	13	-1.123	24	0.006	14	-0.003	24	570.258	23	NC	32
1216			min	-0.024	19	-3.296	6	-0.005	24	-0.007	6	191.274	4	NC	1
1217		4	max	0.025	13	-0.922	21	0.006	14	-0.003	21	800.362	23	NC	32
1218			min	-0.024	19	-2.695	7	-0.005	24	-0.007	7	268.455	4	NC	1
1219		5	max	0.025	13	-0.422	21	0.005	14	-0.003	21	NC	32	NC	32
1220			min	-0.024	19	-1.205	7	-0.005	24	-0.007	7	NC	1	NC	1
1221	F1_J113	1	max	0.026	13	-0.24	23	0.008	13	-0.003	23	NC	32	NC	32
1222			min	-0.025	19	-0.685	5	-0.006	23	-0.009	5	NC	1	NC	1
1223		2	max	0.026	13	-0.74	23	0.006	14	-0.003	23	800.362	32	NC	32
1224			min	-0.025	19	-2.175	5	-0.005	24	-0.009	5	268.455	4	NC	1
1225		3	max	0.026	13	-0.941	24	0.006	14	-0.003	24	570.258	23	NC	32
1226			min	-0.025	19	-2.776	6	-0.005	24	-0.009	6	191.274	4	NC	1
1227		4	max	0.026	13	-0.74	21	0.006	14	-0.003	21	800.362	23	NC	32
1228			min	-0.025	19	-2.175	7	-0.005	24	-0.009	7	268.455	8	NC	1
1229		5	max	0.026	13	-0.24	21	0.005	14	-0.003	21	NC	32	NC	32
1230			min	-0.025	19	-0.685	7	-0.005	24	-0.009	7	NC	1	NC	1
1231	F1_J114	1	max	0.021	13	-0.002	21	0.014	13	0.007	7	NC	32	NC	32
1232			min	-0.021	15	-0.012	7	-0.012	23	0.002	21	NC	1	NC	1
1233		2	max	0.021	13	-0.537	21	0.012	13	0.008	7	837.49	32	NC	32
1234			min	-0.021	15	-1.599	7	-0.011	23	0.003	21	280.909	4	NC	1
1235		3	max	0.021	13	-0.793	21	0.011	13	0.009	7	596.712	32	NC	32
1236			min	-0.021	15	-2.349	7	-0.009	23	0.003	21	200.147	6	NC	1
1237		4	max	0.021	13	-0.668	21	0.009	13	0.01	7	837.49	22	NC	32
1238			min	-0.021	15	-1.967	7	-0.008	23	0.003	21	280.909	7	NC	1
1239		5	max	0.021	13	-0.263	23	0.008	13	0.011	7	NC	32	NC	32
1240			min	-0.021	15	-0.749	5	-0.006	23	0.004	21	NC	1	NC	1
1241	F1_J115	1	max	0.022	13	-0.004	21	0.014	13	0.004	7	NC	32	NC	32
1242			min	-0.022	15	-0.013	7	-0.012	23	0.002	21	NC	1	NC	1
1243		2	max	0.022	13	-0.588	21	0.012	13	0.005	7	837.49	32	NC	32
1244			min	-0.022	15	-1.738	7	-0.011	23	0.002	21	280.909	4	NC	1
1245		3	max	0.022	13	-0.891	21	0.011	13	0.006	7	596.712	32	NC	32
1246			min	-0.022	15	-2.627	7	-0.009	23	0.002	21	200.147	8	NC	1
1247		4	max	0.022	13	-0.814	21	0.009	13	0.006	7	837.49	32	NC	32
1248			min	-0.022	15	-2.384	7	-0.008	23	0.002	21	280.909	5	NC	1
1249		5	max	0.022	13	-0.457	23	0.008	13	0.007	7	NC	32	NC	32
1250			min	-0.022	15	-1.305	5	-0.006	23	0.002	21	NC	1	NC	1
1251	F1_J116	1	max	0.023	13	-0.006	21	0.014	13	0.001	7	NC	32	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
1252			min	-0.023	19	-0.013	7	-0.012	23	0	21	NC	1	NC	1
1253		2	max	0.023	13	-0.613	21	0.012	13	0.001	7	837.49	23	NC	32
1254			min	-0.023	19	-1.807	7	-0.011	23	0	21	280.909	5	NC	1
1255		3	max	0.023	13	-0.94	21	0.011	13	0.002	7	596.712	23	NC	32
1256			min	-0.023	19	-2.764	7	-0.009	23	0.001	21	200.147	5	NC	1
1257		4	max	0.023	13	-0.887	21	0.009	13	0.002	7	837.49	32	NC	32
1258			min	-0.023	19	-2.59	7	-0.008	23	0.001	21	280.909	8	NC	1
1259		5	max	0.023	13	-0.553	23	0.008	13	0.002	7	NC	32	NC	32
1260			min	-0.023	19	-1.58	5	-0.006	23	0.001	21	NC	1	NC	1
1261	F1_J117	1	max	0.024	13	-0.006	21	0.014	13	-0.001	23	NC	32	NC	32
1262			min	-0.023	19	-0.012	7	-0.012	23	-0.002	5	NC	1	NC	1
1263		2	max	0.024	13	-0.609	21	0.012	13	-0.001	23	837.49	32	NC	32
1264			min	-0.023	19	-1.796	7	-0.011	23	-0.002	5	280.909	5	NC	1
1265		3	max	0.024	13	-0.932	21	0.011	13	-0.001	23	596.712	32	NC	32
1266			min	-0.023	19	-2.743	7	-0.009	23	-0.003	5	200.147	4	NC	1
1267		4	max	0.024	13	-0.875	21	0.009	13	-0.001	23	837.49	24	NC	32
1268			min	-0.023	19	-2.558	7	-0.008	23	-0.003	5	280.909	5	NC	1
1269		5	max	0.024	13	-0.538	23	0.008	13	-0.001	23	NC	32	NC	32
1270			min	-0.023	19	-1.536	5	-0.006	23	-0.003	5	NC	1	NC	1
1271	F1_J118	1	max	0.025	13	-0.006	22	0.014	13	-0.002	23	NC	32	NC	32
1272			min	-0.024	19	-0.012	7	-0.012	23	-0.005	5	NC	1	NC	1
1273		2	max	0.025	13	-0.581	23	0.012	13	-0.002	23	837.49	23	NC	32
1274			min	-0.024	19	-1.713	5	-0.011	23	-0.005	5	280.909	8	NC	1
1275		3	max	0.025	13	-0.874	23	0.011	13	-0.002	23	596.712	23	NC	32
1276			min	-0.024	19	-2.577	5	-0.009	23	-0.006	5	200.147	4	NC	1
1277		4	max	0.025	13	-0.788	23	0.009	13	-0.002	23	837.49	21	NC	32
1278			min	-0.024	19	-2.309	5	-0.008	23	-0.007	5	280.909	8	NC	1
1279		5	max	0.025	13	-0.422	23	0.008	13	-0.003	23	NC	32	NC	32
1280			min	-0.024	19	-1.205	5	-0.006	23	-0.007	5	NC	1	NC	1
1281	F1_J119	1	max	0.026	13	-0.006	23	0.014	13	-0.002	23	NC	32	NC	32
1282			min	-0.025	19	-0.012	5	-0.012	23	-0.006	5	NC	1	NC	1
1283		2	max	0.026	13	-0.535	23	0.012	13	-0.002	23	837.49	32	NC	32
1284			min	-0.025	19	-1.583	5	-0.011	23	-0.007	5	280.909	7	NC	1
1285		3	max	0.026	13	-0.783	23	0.011	13	-0.003	23	596.712	32	NC	32
1286			min	-0.025	19	-2.317	5	-0.009	23	-0.007	5	200.147	8	NC	1
1287		4	max	0.026	13	-0.652	23	0.009	13	-0.003	23	837.49	24	NC	32
1288			min	-0.025	19	-1.919	5	-0.008	23	-0.008	5	280.909	4	NC	1
1289		5	max	0.026	13	-0.24	23	0.008	13	-0.003	23	NC	32	NC	32
1290			min	-0.025	19	-0.685	5	-0.006	23	-0.009	5	NC	1	NC	1
1291	F1_J120	1	max	0.028	13	-0.006	23	0.014	13	-0.001	23	NC	32	NC	32
1292			min	-0.027	19	-0.012	5	-0.012	23	-0.004	5	NC	1	NC	1
1293		2	max	0.028	13	-0.463	23	0.012	13	-0.001	23	824.285	23	NC	32
1294			min	-0.027	19	-1.383	5	-0.011	23	-0.004	5	275.955	6	NC	1
1295		3	max	0.028	13	-0.635	23	0.011	13	-0.002	23	587.303	32	NC	32
1296			min	-0.027	19	-1.902	5	-0.009	23	-0.005	5	196.618	7	NC	1
1297		4	max	0.028	13	-0.422	21	0.009	13	-0.002	23	824.285	23	NC	32
1298			min	-0.027	19	-1.269	7	-0.008	23	-0.005	5	275.955	6	NC	1
1299		5	max	0.028	13	0.215	5	0.008	13	-0.002	23	NC	32	NC	32
1300			min	-0.027	19	0.077	23	-0.006	23	-0.006	5	NC	1	NC	1
1301	F1_J121	1	max	0.029	13	-0.006	23	0.014	13	0.005	5	NC	32	NC	32
1302			min	-0.028	19	-0.012	5	-0.012	23	0.002	23	NC	1	NC	1
1303		2	max	0.029	13	-0.515	23	0.012	13	0.006	5	824.285	21	NC	32
1304			min	-0.028	19	-1.531	5	-0.011	23	0.002	23	275.955	4	NC	1
1305		3	max	0.029	13	-0.738	23	0.011	13	0.007	5	587.303	21	NC	32
1306			min	-0.028	19	-2.199	5	-0.009	23	0.002	23	196.618	7	NC	1
1307		4	max	0.029	13	-0.576	21	0.009	13	0.007	5	824.285	21	NC	32
1308			min	-0.028	19	-1.715	7	-0.008	23	0.003	23	275.955	5	NC	1
1309		5	max	0.029	13	-0.128	21	0.008	13	0.008	5	NC	32	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
1310			min	-0.028	19	-0.379	7	-0.006	23	0.003	23	NC	1	NC	1
1311	F1_J122	1	max	0.03	13	-0.006	22	0.014	13	0.002	5	NC	32	NC	32
1312			min	-0.029	19	-0.012	8	-0.012	23	0.001	23	NC	1	NC	1
1313		2	max	0.03	13	-0.546	22	0.012	13	0.002	5	824.285	32	NC	32
1314			min	-0.029	19	-1.623	8	-0.011	23	0.001	23	275.955	4	NC	1
1315		3	max	0.03	13	-0.801	22	0.011	13	0.003	5	587.303	21	NC	32
1316			min	-0.029	19	-2.381	8	-0.009	23	0.001	23	196.618	4	NC	1
1317		4	max	0.03	13	-0.671	21	0.009	13	0.003	5	824.285	24	NC	32
1318			min	-0.029	19	-1.988	7	-0.008	23	0.001	23	275.955	4	NC	1
1319		5	max	0.03	13	-0.255	21	0.008	13	0.003	5	NC	32	NC	32
1320			min	-0.029	19	-0.743	7	-0.006	23	0.001	23	NC	1	NC	1
1321	F1_J123	1	max	0.031	13	-0.006	22	0.014	13	-0.001	21	NC	32	NC	32
1322			min	-0.03	19	-0.012	7	-0.012	23	-0.002	7	NC	1	NC	1
1323		2	max	0.031	13	-0.548	21	0.012	13	-0.001	21	824.285	24	NC	32
1324			min	-0.03	19	-1.627	7	-0.011	23	-0.002	7	275.955	4	NC	1
1325		3	max	0.031	13	-0.804	21	0.011	13	-0.001	21	587.303	22	NC	32
1326			min	-0.03	19	-2.39	7	-0.009	23	-0.002	7	196.618	5	NC	1
1327		4	max	0.031	13	-0.675	21	0.009	13	-0.001	21	824.285	24	NC	32
1328			min	-0.03	19	-2.001	7	-0.008	23	-0.002	7	275.955	4	NC	1
1329		5	max	0.031	13	-0.261	21	0.008	13	-0.001	21	NC	32	NC	32
1330			min	-0.03	19	-0.76	7	-0.006	23	-0.003	7	NC	1	NC	1
1331	F1_J124	1	max	0.032	13	-0.006	21	0.014	13	-0.002	21	NC	32	NC	32
1332			min	-0.031	19	-0.012	7	-0.012	23	-0.005	7	NC	1	NC	1
1333		2	max	0.032	13	-0.519	21	0.012	13	-0.002	21	824.285	22	NC	32
1334			min	-0.031	19	-1.544	7	-0.011	23	-0.006	7	275.955	7	NC	1
1335		3	max	0.032	13	-0.748	21	0.011	13	-0.002	21	587.303	22	NC	32
1336			min	-0.031	19	-2.224	7	-0.009	23	-0.006	7	196.618	7	NC	1
1337		4	max	0.032	13	-0.59	21	0.009	13	-0.002	21	824.285	21	NC	32
1338			min	-0.031	19	-1.752	7	-0.008	23	-0.007	7	275.955	7	NC	1
1339		5	max	0.032	13	-0.147	21	0.008	13	-0.003	21	NC	32	NC	32
1340			min	-0.031	19	-0.429	7	-0.006	23	-0.008	7	NC	1	NC	1
1341	F1_J125	1	max	0.033	13	-0.006	21	0.014	13	0.003	5	NC	32	NC	32
1342			min	-0.032	19	-0.012	7	-0.012	23	0.001	23	NC	1	NC	1
1343		2	max	0.033	13	-0.471	21	0.012	13	0.003	5	824.285	22	NC	32
1344			min	-0.032	19	-1.404	7	-0.011	23	0.001	23	275.955	4	NC	1
1345		3	max	0.033	13	-0.651	21	0.011	13	0.003	5	587.303	24	NC	32
1346			min	-0.032	19	-1.944	7	-0.009	23	0.001	23	196.618	4	NC	1
1347		4	max	0.033	13	-0.445	21	0.009	13	0.004	5	824.285	24	NC	32
1348			min	-0.032	19	-1.332	7	-0.008	23	0.001	23	275.955	7	NC	1
1349		5	max	0.033	13	0.131	5	0.008	13	0.004	5	NC	32	NC	32
1350			min	-0.032	19	0.046	23	-0.006	23	0.001	23	NC	1	NC	1
1351	F1_J126	1	max	0.034	13	-0.006	21	0.014	13	0.006	5	NC	32	NC	32
1352			min	-0.033	19	-0.012	7	-0.012	23	0.002	23	NC	1	NC	1
1353		2	max	0.034	13	-0.544	21	0.012	13	0.007	5	824.285	24	NC	32
1354			min	-0.033	19	-1.613	7	-0.011	23	0.002	23	275.955	4	NC	1
1355		3	max	0.034	13	-0.796	21	0.011	13	0.008	5	587.303	24	NC	32
1356			min	-0.033	19	-2.363	7	-0.009	23	0.003	23	196.618	4	NC	1
1357		4	max	0.034	13	-0.662	21	0.009	13	0.009	5	824.285	23	NC	32
1358			min	-0.033	19	-1.96	7	-0.008	23	0.003	23	275.955	4	NC	1
1359		5	max	0.034	13	-0.244	23	0.008	13	0.01	5	NC	32	NC	32
1360			min	-0.033	19	-0.706	5	-0.006	23	0.003	23	NC	1	NC	1
1361	F1_J127	1	max	0.035	13	-0.006	23	0.014	13	0.005	5	NC	32	NC	32
1362			min	-0.034	19	-0.012	5	-0.012	23	0.002	23	NC	1	NC	1
1363		2	max	0.035	13	-0.593	23	0.012	13	0.006	5	824.285	21	NC	32
1364			min	-0.034	19	-1.758	5	-0.011	23	0.002	23	275.955	4	NC	1
1365		3	max	0.035	13	-0.895	23	0.011	13	0.006	5	587.303	24	NC	32
1366			min	-0.034	19	-2.651	5	-0.009	23	0.002	23	196.618	4	NC	1
1367		4	max	0.035	13	-0.812	23	0.009	13	0.007	5	824.285	24	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
1368			min	-0.034	19	-2.392	5	-0.008	23	0.002	23	275.955	7	NC	1
1369		5	max	0.035	13	-0.443	23	0.008	13	0.008	5	NC	32	NC	32
1370			min	-0.034	19	-1.282	5	-0.006	23	0.003	23	NC	1	NC	1
1371	F1_J128	1	max	0.036	13	-0.006	23	0.014	13	0.002	5	NC	32	NC	32
1372			min	-0.035	19	-0.013	5	-0.012	23	0.001	23	NC	1	NC	1
1373		2	max	0.036	13	-0.623	23	0.012	13	0.002	5	824.285	23	NC	32
1374			min	-0.035	19	-1.845	5	-0.011	23	0.001	23	275.955	7	NC	1
1375		3	max	0.036	13	-0.955	23	0.011	13	0.002	5	587.303	32	NC	32
1376			min	-0.035	19	-2.825	5	-0.009	23	0.001	23	196.618	8	NC	1
1377		4	max	0.036	13	-0.902	23	0.009	13	0.003	5	824.285	32	NC	32
1378			min	-0.035	19	-2.654	5	-0.008	23	0.001	23	275.955	7	NC	1
1379		5	max	0.036	13	-0.563	23	0.008	13	0.003	5	NC	32	NC	32
1380			min	-0.035	19	-1.63	5	-0.006	23	0.001	23	NC	1	NC	1
1381	F1_J129	1	max	0.037	13	-0.005	23	0.014	13	-0.001	21	NC	32	NC	32
1382			min	-0.036	19	-0.014	5	-0.012	23	-0.002	7	NC	1	NC	1
1383		2	max	0.037	13	-0.623	23	0.012	13	-0.001	21	824.285	21	NC	32
1384			min	-0.036	19	-1.845	5	-0.011	23	-0.002	7	275.955	4	NC	1
1385		3	max	0.037	13	-0.955	23	0.011	13	-0.001	21	587.303	21	NC	32
1386			min	-0.036	19	-2.826	5	-0.009	23	-0.002	7	196.618	6	NC	1
1387		4	max	0.037	13	-0.902	23	0.009	13	-0.001	21	824.285	24	NC	32
1388			min	-0.036	19	-2.654	5	-0.008	23	-0.003	7	275.955	6	NC	1
1389		5	max	0.037	13	-0.563	23	0.008	13	-0.001	21	NC	32	NC	32
1390			min	-0.036	19	-1.63	5	-0.006	23	-0.003	7	NC	1	NC	1
1391	F1_J130	1	max	0.038	13	-0.004	23	0.014	13	-0.002	23	NC	32	NC	32
1392			min	-0.037	19	-0.015	5	-0.012	23	-0.005	5	NC	1	NC	1
1393		2	max	0.038	13	-0.592	23	0.012	13	-0.002	23	824.285	22	NC	32
1394			min	-0.037	19	-1.76	5	-0.011	23	-0.006	5	275.955	4	NC	1
1395		3	max	0.038	13	-0.894	23	0.011	13	-0.002	23	587.303	22	NC	32
1396			min	-0.037	19	-2.652	5	-0.009	23	-0.006	5	196.618	4	NC	1
1397		4	max	0.038	13	-0.811	23	0.009	13	-0.002	23	824.285	22	NC	32
1398			min	-0.037	19	-2.393	5	-0.008	23	-0.007	5	275.955	4	NC	1
1399		5	max	0.038	13	-0.443	23	0.008	13	-0.003	23	NC	32	NC	32
1400			min	-0.037	19	-1.282	5	-0.006	23	-0.008	5	NC	1	NC	1
1401	F1_J131	1	max	0.039	13	-0.002	23	0.014	13	-0.002	23	NC	32	NC	32
1402			min	-0.038	19	-0.019	5	-0.012	23	-0.006	5	NC	1	NC	1
1403		2	max	0.039	13	-0.54	23	0.012	13	-0.002	23	824.285	24	NC	32
1404			min	-0.038	19	-1.618	5	-0.011	23	-0.007	5	275.955	8	NC	1
1405		3	max	0.039	13	-0.794	23	0.011	13	-0.003	23	587.303	32	NC	32
1406			min	-0.038	19	-2.366	5	-0.009	23	-0.008	5	196.618	6	NC	1
1407		4	max	0.039	13	-0.661	23	0.009	13	-0.003	23	824.285	24	NC	32
1408			min	-0.038	19	-1.961	5	-0.008	23	-0.009	5	275.955	4	NC	1
1409		5	max	0.039	13	-0.244	23	0.008	13	-0.003	23	NC	32	NC	32
1410			min	-0.038	19	-0.706	5	-0.006	23	-0.01	5	NC	1	NC	1
1411	F1_J132	1	max	0.041	13	-0.035	23	0.014	13	0.001	5	NC	32	NC	32
1412			min	-0.04	19	-0.113	5	-0.012	23	0	23	NC	1	NC	1
1413		2	max	0.041	13	-0.493	23	0.012	13	0	5	824.285	23	NC	32
1414			min	-0.04	19	-1.48	5	-0.011	23	0	3	275.955	4	NC	1
1415		3	max	0.041	13	-0.665	23	0.011	13	0	21	587.303	24	NC	32
1416			min	-0.04	19	-1.995	5	-0.009	23	-0.001	4	196.618	6	NC	1
1417		4	max	0.041	13	-0.452	23	0.009	13	-0.001	21	824.285	24	NC	32
1418			min	-0.04	19	-1.358	5	-0.008	23	-0.003	4	275.955	8	NC	1
1419		5	max	0.041	13	0.131	5	0.008	13	-0.001	23	NC	32	NC	32
1420			min	-0.04	19	0.046	23	-0.006	23	-0.004	5	NC	1	NC	1
1421	F1_J133	1	max	0.042	13	-0.046	23	0.014	13	0	21	NC	32	NC	32
1422			min	-0.041	19	-0.152	5	-0.012	23	0	4	NC	1	NC	1
1423		2	max	0.042	13	-0.549	23	0.012	13	0.002	5	824.285	32	NC	32
1424			min	-0.041	19	-1.648	5	-0.011	23	0.001	23	275.955	4	NC	1
1425		3	max	0.042	13	-0.767	23	0.011	13	0.004	5	587.303	32	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
1426			min	-0.041	19	-2.293	5	-0.009	23	0.001	23	196.618	7	NC	1
1427		4	max	0.042	13	-0.6	23	0.009	13	0.006	5	824.285	32	NC	32
1428			min	-0.041	19	-1.785	5	-0.008	23	0.002	23	275.955	4	NC	1
1429		5	max	0.042	13	-0.147	23	0.008	13	0.008	5	NC	32	NC	32
1430			min	-0.041	19	-0.426	5	-0.006	23	0.003	23	NC	1	NC	1
1431	F1_J134	1	max	0.043	13	-0.021	23	0.014	13	-0.001	21	NC	32	NC	32
1432			min	-0.041	19	-0.069	5	-0.012	23	-0.002	4	NC	1	NC	1
1433		2	max	0.043	13	-0.559	23	0.012	13	0	21	824.285	32	NC	32
1434			min	-0.041	19	-1.668	5	-0.011	23	-0.001	4	275.955	5	NC	1
1435		3	max	0.043	13	-0.812	23	0.011	13	0	5	587.303	32	NC	32
1436			min	-0.041	19	-2.416	5	-0.009	23	0	23	196.618	5	NC	1
1437		4	max	0.043	13	-0.678	23	0.009	13	0.002	5	824.285	32	NC	32
1438			min	-0.041	19	-2.011	5	-0.008	23	0.001	23	275.955	7	NC	1
1439		5	max	0.043	13	-0.26	23	0.008	13	0.003	5	NC	32	NC	32
1440			min	-0.041	19	-0.755	5	-0.006	23	0.001	23	NC	1	NC	1
1441	F1_J135	1	max	0.044	13	-0.04	21	0.014	13	0.003	7	NC	32	NC	32
1442			min	-0.042	19	-0.136	7	-0.012	23	0.001	21	NC	1	NC	1
1443		2	max	0.044	13	-0.571	21	0.012	13	0.001	7	824.285	32	NC	32
1444			min	-0.042	19	-1.714	7	-0.011	23	0	21	275.955	8	NC	1
1445		3	max	0.044	13	-0.817	21	0.011	13	0	23	587.303	32	NC	32
1446			min	-0.042	19	-2.44	7	-0.009	23	0	1	196.618	6	NC	1
1447		4	max	0.044	13	-0.678	24	0.009	13	-0.001	23	824.285	32	NC	32
1448			min	-0.042	19	-2.014	5	-0.008	23	-0.002	5	275.955	6	NC	1
1449		5	max	0.044	13	-0.253	23	0.008	13	-0.001	21	NC	32	NC	32
1450			min	-0.042	19	-0.736	5	-0.006	23	-0.003	7	NC	1	NC	1
1451	F1_J136	1	max	0.045	13	-0.073	21	0.014	13	0.001	7	NC	32	NC	32
1452			min	-0.043	19	-0.254	7	-0.012	23	0	21	NC	1	NC	1
1453		2	max	0.045	13	-0.564	21	0.012	13	-0.001	23	824.285	21	NC	32
1454			min	-0.043	19	-1.71	7	-0.011	23	-0.002	5	275.955	4	NC	1
1455		3	max	0.045	13	-0.77	21	0.011	13	-0.001	23	587.303	24	NC	32
1456			min	-0.043	19	-2.315	7	-0.009	23	-0.004	5	196.618	4	NC	1
1457		4	max	0.045	13	-0.591	21	0.009	13	-0.002	23	824.285	24	NC	32
1458			min	-0.043	19	-1.768	7	-0.008	23	-0.006	5	275.955	4	NC	1
1459		5	max	0.045	13	-0.126	23	0.008	13	-0.003	21	NC	32	NC	32
1460			min	-0.043	19	-0.369	5	-0.006	23	-0.008	7	NC	1	NC	1
1461	F1_J137	1	max	0.046	13	-0.059	21	0.014	13	-0.001	23	NC	32	NC	32
1462			min	-0.044	19	-0.206	7	-0.012	23	-0.002	5	NC	1	NC	1
1463		2	max	0.046	13	-0.502	21	0.012	13	0	1	824.285	23	NC	32
1464			min	-0.044	19	-1.526	7	-0.011	23	0	5	275.955	8	NC	1
1465		3	max	0.046	13	-0.66	21	0.011	13	0.002	7	587.303	23	NC	32
1466			min	-0.044	19	-1.993	7	-0.009	23	0.001	21	196.618	8	NC	1
1467		4	max	0.046	13	-0.433	21	0.009	13	0.004	7	824.285	23	NC	32
1468			min	-0.044	19	-1.309	7	-0.008	23	0.001	21	275.955	4	NC	1
1469		5	max	0.046	13	0.228	7	0.008	13	0.006	7	NC	32	NC	32
1470			min	-0.044	19	0.08	21	-0.006	23	0.002	21	NC	1	NC	1
1471	F1_J138	1	max	0.048	13	-0.252	21	0.014	13	0.017	7	NC	32	NC	32
1472			min	-0.046	19	-1.111	7	-0.012	23	0.004	21	NC	1	NC	1
1473		2	max	0.048	13	-0.72	21	0.012	13	0.015	7	837.49	24	NC	32
1474			min	-0.046	19	-2.41	7	-0.011	23	0.004	21	280.909	5	NC	1
1475		3	max	0.048	13	-0.907	21	0.011	13	0.013	7	596.712	32	NC	32
1476			min	-0.046	19	-2.873	7	-0.009	23	0.004	21	200.147	4	NC	1
1477		4	max	0.048	13	-0.715	21	0.009	13	0.011	7	837.49	32	NC	32
1478			min	-0.046	19	-2.203	7	-0.008	23	0.003	21	280.909	5	NC	1
1479		5	max	0.048	13	-0.242	21	0.008	13	0.009	7	NC	32	NC	32
1480			min	-0.046	19	-0.697	7	-0.006	23	0.003	21	NC	1	NC	1
1481	F1_J139	1	max	0.049	13	-0.451	21	0.014	13	0.013	7	NC	32	NC	32
1482			min	-0.047	19	-2.009	7	-0.012	23	0.003	21	NC	1	NC	1
1483		2	max	0.049	13	-0.915	21	0.012	13	0.011	7	837.49	32	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
1484			min	-0.047	19	-3.217	7	-0.011	23	0.003	21	280.909	4	NC	1
1485		3	max	0.049	13	-1.099	21	0.011	13	0.01	7	596.712	32	NC	32
1486			min	-0.047	19	-3.588	7	-0.009	23	0.003	21	200.147	4	NC	1
1487		4	max	0.049	13	-0.903	21	0.009	13	0.009	7	837.49	32	NC	32
1488			min	-0.047	19	-2.827	7	-0.008	23	0.003	21	280.909	7	NC	1
1489		5	max	0.049	13	-0.427	21	0.008	13	0.008	7	NC	32	NC	32
1490			min	-0.047	19	-1.23	7	-0.006	23	0.003	21	NC	1	NC	1
1491	F1_J140	1	max	0.05	13	-0.578	21	0.014	13	0.007	7	NC	32	NC	32
1492			min	-0.048	19	-2.604	7	-0.012	23	0.001	21	NC	1	NC	1
1493		2	max	0.05	13	-1.04	21	0.012	13	0.006	7	837.49	23	NC	32
1494			min	-0.048	19	-3.749	7	-0.011	23	0.001	21	280.909	4	NC	1
1495		3	max	0.05	13	-1.222	21	0.011	13	0.005	7	596.712	32	NC	32
1496			min	-0.048	19	-4.057	7	-0.009	23	0.001	21	200.147	4	NC	1
1497		4	max	0.05	13	-1.024	21	0.009	13	0.004	7	837.49	32	NC	32
1498			min	-0.048	19	-3.233	7	-0.008	23	0.001	21	280.909	4	NC	1
1499		5	max	0.05	13	-0.545	21	0.008	13	0.003	7	NC	32	NC	32
1500			min	-0.048	19	-1.573	7	-0.006	23	0.001	21	NC	1	NC	1
1501	F1_J141	1	max	0.051	13	-0.625	21	0.014	13	0.001	7	NC	32	NC	32
1502			min	-0.049	19	-2.852	7	-0.012	23	0	21	NC	1	NC	1
1503		2	max	0.051	13	-1.08	21	0.012	13	0.001	7	837.49	32	NC	32
1504			min	-0.049	19	-3.949	7	-0.011	23	0	17	280.909	4	NC	1
1505		3	max	0.051	13	-1.254	21	0.011	13	0	7	596.712	24	NC	32
1506			min	-0.049	19	-4.209	7	-0.009	23	0	1	200.147	6	NC	1
1507		4	max	0.051	13	-1.049	21	0.009	13	0	23	837.49	32	NC	32
1508			min	-0.049	19	-3.337	7	-0.008	23	-0.001	5	280.909	6	NC	1
1509		5	max	0.051	13	-0.563	21	0.008	13	-0.001	23	NC	32	NC	32
1510			min	-0.049	19	-1.629	7	-0.006	23	-0.002	5	NC	1	NC	1
1511	F1_J142	1	max	0.052	13	-0.602	21	0.014	13	-0.001	21	NC	32	NC	32
1512			min	-0.05	19	-2.789	7	-0.012	23	-0.003	7	NC	1	NC	1
1513		2	max	0.052	13	-1.039	21	0.012	13	-0.001	21	837.49	22	NC	32
1514			min	-0.05	19	-3.836	7	-0.011	23	-0.004	7	280.909	5	NC	1
1515		3	max	0.052	13	-1.196	21	0.011	13	-0.002	21	596.712	21	NC	32
1516			min	-0.05	19	-4.046	7	-0.009	23	-0.005	7	200.147	4	NC	1
1517		4	max	0.052	13	-0.973	21	0.009	13	-0.002	21	837.49	32	NC	32
1518			min	-0.05	19	-3.124	7	-0.008	23	-0.006	7	280.909	8	NC	1
1519		5	max	0.052	13	-0.469	21	0.008	13	-0.002	23	NC	32	NC	32
1520			min	-0.05	19	-1.366	7	-0.006	23	-0.007	5	NC	1	NC	1
1521	F1_J143	1	max	0.053	13	-0.538	21	0.014	13	-0.001	21	NC	32	NC	32
1522			min	-0.05	19	-2.524	7	-0.012	23	-0.006	7	NC	1	NC	1
1523		2	max	0.053	13	-0.943	21	0.012	13	-0.002	21	837.49	32	NC	32
1524			min	-0.05	19	-3.501	7	-0.011	23	-0.007	7	280.909	6	NC	1
1525		3	max	0.053	13	-1.068	21	0.011	13	-0.003	21	596.712	21	NC	32
1526			min	-0.05	19	-3.642	7	-0.009	23	-0.008	7	200.147	8	NC	1
1527		4	max	0.053	13	-0.813	21	0.009	13	-0.003	21	837.49	32	NC	32
1528			min	-0.05	19	-2.65	7	-0.008	23	-0.01	7	280.909	6	NC	1
1529		5	max	0.053	13	-0.278	21	0.008	13	-0.004	23	NC	32	NC	32
1530			min	-0.05	19	-0.822	7	-0.006	23	-0.011	5	NC	1	NC	1
1531	F1_J148	1	max	0.049	13	-0.104	23	0.016	13	0.007	7	NC	32	NC	32
1532			min	-0.046	19	-0.935	4	-0.014	23	0.001	21	NC	1	NC	1
1533		2	max	0.049	13	-0.181	21	0.016	13	0.009	7	NC	32	NC	32
1534			min	-0.046	19	-1.187	7	-0.014	23	0.001	21	1910.636	4	NC	1
1535		3	max	0.049	13	-0.252	21	0.015	13	0.011	7	NC	32	NC	32
1536			min	-0.046	19	-1.398	7	-0.013	23	0.002	21	1361.052	4	NC	1
1537		4	max	0.049	13	-0.317	21	0.015	13	0.013	7	NC	32	NC	32
1538			min	-0.046	19	-1.554	7	-0.013	23	0.003	21	1910.037	4	NC	1
1539		5	max	0.049	13	-0.376	21	0.014	13	0.015	7	NC	32	NC	32
1540			min	-0.046	19	-1.67	7	-0.012	23	0.003	21	NC	1	NC	1
1541	F1_J149	1	max	0.05	13	-0.106	23	0.016	13	0	23	NC	32	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
1542			min	-0.048	19	-0.965	4	-0.015	23	-0.003	5	NC	1	NC	1
1543		2	max	0.05	13	-0.241	21	0.016	13	0	19	NC	32	NC	32
1544			min	-0.048	19	-1.501	7	-0.014	23	-0.001	5	1338.305	6	NC	1
1545		3	max	0.05	13	-0.368	21	0.015	13	0.001	7	7788.004	32	NC	32
1546			min	-0.048	19	-1.972	7	-0.013	23	0.001	21	953.389	6	NC	1
1547		4	max	0.05	13	-0.484	21	0.015	13	0.004	7	NC	32	NC	32
1548			min	-0.048	19	-2.355	7	-0.013	23	0.001	21	1337.972	6	NC	1
1549		5	max	0.05	13	-0.592	21	0.014	13	0.006	7	NC	32	NC	32
1550			min	-0.048	19	-2.672	7	-0.012	23	0.001	21	NC	1	NC	1
1551	F1_J150	1	max	0.053	13	-0.066	21	0.017	13	0.005	7	NC	32	NC	32
1552			min	-0.05	19	-0.337	7	-0.015	23	0.001	21	NC	1	NC	1
1553		2	max	0.053	13	-0.206	21	0.016	13	0.003	7	8700.765	23	NC	32
1554			min	-0.05	19	-1.106	7	-0.014	23	0	21	826.751	4	NC	1
1555		3	max	0.053	13	-0.335	21	0.015	13	0	5	6197.222	32	NC	32
1556			min	-0.05	19	-1.748	7	-0.014	23	0	1	589.035	4	NC	1
1557		4	max	0.053	13	-0.447	21	0.015	13	-0.001	21	8696.283	23	NC	32
1558			min	-0.05	19	-2.22	7	-0.013	23	-0.003	7	826.697	4	NC	1
1559		5	max	0.053	13	-0.547	21	0.014	13	-0.001	21	NC	32	NC	32
1560			min	-0.05	19	-2.565	7	-0.012	23	-0.005	7	NC	1	NC	1
1561	F1_J151	1	max	0.057	13	-0.07	24	0.018	13	0.002	7	NC	32	NC	32
1562			min	-0.054	19	-0.586	4	-0.016	23	0	21	NC	1	NC	1
1563		2	max	0.057	13	-0.246	21	0.017	13	0	7	3176.973	21	NC	32
1564			min	-0.054	19	-1.631	7	-0.015	23	0	17	390.307	5	NC	1
1565		3	max	0.057	13	-0.38	21	0.016	13	0	23	2262.595	21	NC	32
1566			min	-0.054	19	-2.338	7	-0.014	23	-0.002	5	278.074	6	NC	1
1567		4	max	0.057	13	-0.458	21	0.015	13	-0.001	21	3174.813	32	NC	32
1568			min	-0.054	19	-2.587	7	-0.013	23	-0.004	7	390.263	5	NC	1
1569		5	max	0.057	13	-0.493	21	0.014	13	-0.001	21	NC	32	NC	32
1570			min	-0.054	19	-2.497	7	-0.012	23	-0.006	7	NC	1	NC	1
1571	F1_J152	1	max	0.059	13	-0.048	24	0.018	13	-0.001	21	NC	32	NC	32
1572			min	-0.056	19	-0.406	4	-0.016	23	-0.006	7	NC	1	NC	1
1573		2	max	0.059	13	-0.196	24	0.017	13	-0.001	21	2854.002	32	NC	32
1574			min	-0.056	19	-1.439	7	-0.015	23	-0.008	7	319.956	6	NC	1
1575		3	max	0.059	13	-0.296	24	0.016	13	-0.002	21	2022.837	32	NC	32
1576			min	-0.056	19	-2.03	7	-0.014	23	-0.01	7	227.79	4	NC	1
1577		4	max	0.059	13	-0.327	24	0.015	13	-0.002	21	2824.841	24	NC	32
1578			min	-0.056	19	-2.019	7	-0.013	23	-0.012	7	319.463	6	NC	1
1579		5	max	0.059	13	-0.308	24	0.014	13	-0.003	21	NC	32	NC	32
1580			min	-0.056	19	-1.564	7	-0.012	23	-0.013	7	NC	1	NC	1
1581	F1_J153	1	max	0.058	13	-0.471	21	0.014	13	-0.001	21	NC	32	NC	32
1582			min	-0.055	19	-2.385	7	-0.012	23	-0.007	7	NC	1	NC	1
1583		2	max	0.058	13	-0.804	21	0.012	13	-0.001	21	1416.845	32	NC	32
1584			min	-0.055	19	-3.868	7	-0.011	23	-0.005	7	303.163	5	NC	1
1585		3	max	0.058	13	-0.975	21	0.011	13	0	21	1002.515	21	NC	32
1586			min	-0.055	19	-4.579	7	-0.009	23	-0.002	7	215.575	8	NC	1
1587		4	max	0.058	13	-0.916	21	0.009	13	0.001	5	1416.845	21	NC	32
1588			min	-0.055	19	-4.234	7	-0.008	23	0	23	303.163	4	NC	1
1589		5	max	0.058	13	-0.693	21	0.008	13	0.004	5	NC	32	NC	32
1590			min	-0.055	19	-3.118	7	-0.006	23	0.001	23	NC	1	NC	1
1591	F1_J154	1	max	0.059	13	-0.208	24	0.014	13	-0.003	21	NC	32	NC	32
1592			min	-0.056	19	-1.059	7	-0.012	23	-0.015	7	NC	1	NC	1
1593		2	max	0.059	13	-0.577	24	0.012	13	-0.003	21	1501.703	24	NC	32
1594			min	-0.056	19	-2.697	7	-0.011	23	-0.014	7	328.385	5	NC	1
1595		3	max	0.059	13	-0.793	24	0.011	13	-0.002	21	1057.412	23	NC	32
1596			min	-0.056	19	-3.634	7	-0.009	23	-0.012	7	232.03	5	NC	1
1597		4	max	0.059	13	-0.79	24	0.009	13	-0.002	21	1488.758	21	NC	32
1598			min	-0.056	19	-3.588	7	-0.008	23	-0.01	7	324.466	4	NC	1
1599		5	max	0.059	13	-0.631	21	0.008	13	-0.002	21	NC	32	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
1600			min	-0.056	19	-2.812	7	-0.006	23	-0.008	7	NC	1	NC	1
1601	F1_J155	1	max	0.058	13	-0.693	21	0.008	13	0.004	5	NC	32	NC	32
1602			min	-0.055	19	-3.118	7	-0.006	23	0.001	23	NC	1	NC	1
1603		2	max	0.058	13	-0.95	21	0.006	14	0.003	5	1357.936	32	NC	32
1604			min	-0.055	19	-4.339	7	-0.005	24	0.001	23	289.961	6	NC	1
1605		3	max	0.058	13	-1.034	21	0.006	14	0.002	5	960.914	32	NC	32
1606			min	-0.055	19	-4.741	7	-0.005	24	0	23	206.193	4	NC	1
1607		4	max	0.058	13	-0.874	21	0.006	14	0.001	5	1357.936	23	NC	32
1608			min	-0.055	19	-4.022	7	-0.005	24	0	23	289.961	4	NC	1
1609		5	max	0.058	13	-0.542	21	0.005	14	0	5	NC	32	NC	32
1610			min	-0.055	19	-2.484	7	-0.005	24	0	23	NC	1	NC	1
1611	F1_J156	1	max	0.059	13	-0.631	21	0.008	13	-0.002	21	NC	32	NC	32
1612			min	-0.056	19	-2.812	7	-0.006	23	-0.008	7	NC	1	NC	1
1613		2	max	0.059	13	-0.867	21	0.006	14	-0.002	21	1357.936	32	NC	32
1614			min	-0.056	19	-3.94	7	-0.005	24	-0.009	7	289.961	8	NC	1
1615		3	max	0.059	13	-0.929	21	0.006	14	-0.002	21	960.914	22	NC	32
1616			min	-0.056	19	-4.249	7	-0.005	24	-0.01	7	206.193	8	NC	1
1617		4	max	0.059	13	-0.748	21	0.006	14	-0.002	21	1357.936	22	NC	32
1618			min	-0.056	19	-3.437	7	-0.005	24	-0.011	7	289.961	4	NC	1
1619		5	max	0.059	13	-0.394	21	0.005	14	-0.003	21	NC	32	NC	32
1620			min	-0.056	19	-1.806	7	-0.005	24	-0.012	7	NC	1	NC	1
1621	F1_J157	1	max	0.058	13	-0.542	21	0.005	14	0	5	NC	32	NC	32
1622			min	-0.055	19	-2.484	7	-0.005	24	0	23	NC	1	NC	1
1623		2	max	0.058	13	-0.75	21	0.005	14	0.002	5	1416.845	32	NC	32
1624			min	-0.055	19	-3.459	7	-0.005	24	0	23	303.163	4	NC	1
1625		3	max	0.058	13	-0.795	21	0.005	14	0.003	7	1002.515	22	NC	32
1626			min	-0.055	19	-3.662	7	-0.004	24	0.001	21	215.575	4	NC	1
1627		4	max	0.058	13	-0.61	21	0.005	14	0.005	7	1416.845	22	NC	32
1628			min	-0.055	19	-2.809	7	-0.004	24	0.001	21	303.163	4	NC	1
1629		5	max	0.058	13	-0.262	21	0.006	15	0.006	7	NC	32	NC	32
1630			min	-0.055	19	-1.184	7	-0.005	21	0.001	21	NC	1	NC	1
1631	F1_J158	1	max	0.059	13	-0.394	21	0.005	14	-0.003	21	NC	32	NC	32
1632			min	-0.056	19	-1.806	7	-0.005	24	-0.012	7	NC	1	NC	1
1633		2	max	0.059	13	-0.639	21	0.005	14	-0.002	21	1416.845	23	NC	32
1634			min	-0.056	19	-2.949	7	-0.005	24	-0.01	7	303.163	4	NC	1
1635		3	max	0.059	13	-0.721	21	0.005	14	-0.002	21	1002.515	24	NC	32
1636			min	-0.056	19	-3.321	7	-0.004	24	-0.009	7	215.575	6	NC	1
1637		4	max	0.059	13	-0.573	21	0.005	14	-0.002	24	1416.845	21	NC	32
1638			min	-0.056	19	-2.637	7	-0.004	24	-0.007	6	303.163	5	NC	1
1639		5	max	0.059	13	-0.262	21	0.006	15	-0.001	23	NC	32	NC	32
1640			min	-0.056	19	-1.181	7	-0.005	21	-0.006	5	NC	1	NC	1
1641	F1_G159	1	max	0.051	19	-0.001	21	0.005	24	0	24	NC	32	NC	32
1642			min	-0.054	13	-0.006	7	-0.006	14	0	14	NC	1	NC	1
1643		2	max	0.051	19	-0.01	21	0.005	23	0	24	NC	32	NC	32
1644			min	-0.054	13	-0.043	7	-0.006	13	0	13	8243.525	8	NC	1
1645		3	max	0.051	19	-0.018	21	0.006	23	0	23	NC	32	NC	32
1646			min	-0.054	13	-0.074	7	-0.007	13	0	13	5873.512	8	NC	1
1647		4	max	0.051	19	-0.023	21	0.006	23	0	23	NC	32	NC	32
1648			min	-0.054	13	-0.094	7	-0.007	13	0	13	8243.525	4	NC	1
1649		5	max	0.051	19	-0.027	21	0.006	23	0	23	NC	32	NC	32
1650			min	-0.054	13	-0.107	7	-0.008	13	0	13	NC	1	NC	1
1651	F1_G154	1	max	0.006	23	-0.005	23	0.049	13	0	23	NC	32	NC	32
1652			min	-0.007	13	-0.026	4	-0.047	19	-0.002	5	NC	1	NC	1
1653		2	max	0.006	23	-0.041	23	0.048	13	0	23	6174.456	23	NC	32
1654			min	-0.007	13	-0.232	4	-0.046	19	-0.003	5	1065.405	5	NC	1
1655		3	max	0.006	23	-0.057	23	0.048	13	0	23	4286.188	23	NC	32
1656			min	-0.007	13	-0.329	4	-0.045	19	-0.003	5	726.157	5	NC	1
1657		4	max	0.006	23	-0.042	23	0.047	13	-0.001	23	6172.854	21	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
1658			min	-0.007	13	-0.24	4	-0.044	19	-0.004	4	1032.621	7	NC	1
1659		5	max	0.006	23	-0.006	23	0.046	13	-0.001	23	NC	32	NC	32
1660			min	-0.007	13	-0.028	4	-0.044	19	-0.004	4	NC	1	NC	1
1661	F1_G155	1	max	0.042	19	-0.005	23	0.012	23	0	15	NC	32	NC	32
1662			min	-0.044	13	-0.015	5	-0.014	13	0	21	NC	1	NC	1
1663		2	max	0.042	19	-0.006	23	0.013	23	0	15	NC	32	NC	32
1664			min	-0.044	13	-0.028	5	-0.014	13	0	21	8189.377	4	NC	1
1665		3	max	0.042	19	-0.007	23	0.013	23	0	19	NC	32	NC	32
1666			min	-0.044	13	-0.035	4	-0.015	13	0	13	5508.411	5	NC	1
1667		4	max	0.042	19	-0.007	23	0.013	23	0	19	NC	32	NC	32
1668			min	-0.044	13	-0.035	4	-0.015	13	0	5	7932.326	8	NC	1
1669		5	max	0.042	19	-0.006	23	0.014	23	0	23	NC	32	NC	32
1670			min	-0.044	13	-0.028	4	-0.015	13	0	5	NC	1	NC	1
1671	F1_G157	1	max	0.046	13	-0.057	23	0.016	13	0	23	NC	32	NC	32
1672			min	-0.043	19	-0.329	4	-0.014	23	-0.001	5	NC	1	NC	1
1673		2	max	0.046	13	-0.064	23	0.015	13	0	23	NC	32	NC	32
1674			min	-0.043	19	-0.331	4	-0.013	23	0	5	4833.31	4	NC	1
1675		3	max	0.046	13	-0.069	21	0.015	13	0	23	NC	32	NC	32
1676			min	-0.043	19	-0.321	4	-0.013	23	0	5	3443.812	4	NC	1
1677		4	max	0.046	13	-0.072	21	0.014	13	0	23	NC	32	NC	32
1678			min	-0.043	19	-0.296	7	-0.013	23	0	5	4833.627	4	NC	1
1679		5	max	0.046	13	-0.074	21	0.014	13	0	7	NC	32	NC	32
1680			min	-0.043	19	-0.259	7	-0.012	23	0	21	NC	1	NC	1
1681	F1_G160	1	max	0.006	14	-0.001	21	0.051	19	0	19	NC	32	NC	32
1682			min	-0.005	24	-0.006	7	-0.054	13	0	13	NC	1	NC	1
1683		2	max	0.006	14	-0.185	21	0.052	19	0	23	NC	32	NC	32
1684			min	-0.005	24	-0.84	7	-0.054	13	-0.003	5	NC	1	NC	1
1685		3	max	0.006	14	-0.368	21	0.052	19	-0.001	23	NC	32	NC	32
1686			min	-0.005	24	-1.674	7	-0.055	13	-0.005	5	NC	1	NC	1
1687		4	max	0.006	14	-0.55	21	0.052	19	-0.002	23	NC	32	NC	32
1688			min	-0.005	24	-2.507	7	-0.055	13	-0.007	5	NC	1	NC	1
1689		5	max	0.006	14	-0.732	21	0.053	19	-0.002	23	NC	32	NC	32
1690			min	-0.005	24	-3.34	7	-0.056	13	-0.01	5	NC	1	NC	1
1691	(B-2)_L1	1	max	0	32	0	32	0	32	0	32	NC	32	NC	32
1692			min	0	1	0	1	0	1	0	1	NC	1	NC	1
1693		2	max	-0.013	21	0.007	19	0.001	14	0	13	NC	32	NC	32
1694			min	-0.037	7	-0.007	13	-0.001	24	0	19	NC	1	NC	1
1695		3	max	-0.025	21	0.013	19	0.003	14	0	13	NC	32	NC	32
1696			min	-0.073	7	-0.013	13	-0.002	24	0	19	NC	1	NC	1
1697		4	max	-0.038	21	0.02	19	0.004	14	0	13	NC	32	NC	32
1698			min	-0.11	7	-0.02	13	-0.004	24	0	19	NC	1	NC	1
1699		5	max	-0.051	21	0.026	19	0.005	14	0	13	NC	32	NC	32
1700			min	-0.147	7	-0.027	13	-0.005	24	0	19	NC	1	NC	1
1701	(B-3)_L1	1	max	0	32	0	32	0	32	0	32	NC	32	NC	32
1702			min	0	1	0	1	0	1	0	1	NC	1	NC	1
1703		2	max	-0.012	23	0.008	19	0.001	14	0	13	NC	32	NC	32
1704			min	-0.035	5	-0.008	13	-0.001	24	0	19	NC	1	NC	1
1705		3	max	-0.024	23	0.016	19	0.003	14	0	13	NC	32	NC	32
1706			min	-0.069	5	-0.017	13	-0.002	24	0	19	NC	1	NC	1
1707		4	max	-0.036	23	0.024	19	0.004	14	0	13	NC	32	NC	32
1708			min	-0.104	5	-0.025	13	-0.004	24	0	19	NC	1	NC	1
1709		5	max	-0.048	23	0.032	19	0.005	14	0	13	NC	32	NC	32
1710			min	-0.139	5	-0.034	13	-0.005	24	0	19	NC	1	NC	1
1711	(A-2)_L1	1	max	0	32	0	32	0	32	0	32	NC	32	NC	32
1712			min	0	1	0	1	0	1	0	1	NC	1	NC	1
1713		2	max	-0.013	23	0.007	19	0.002	13	0	13	NC	32	NC	32
1714			min	-0.037	5	-0.007	13	-0.002	23	0	19	NC	1	NC	1
1715		3	max	-0.025	23	0.013	19	0.004	13	0	13	NC	32	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
1716			min	-0.073	5	-0.013	13	-0.003	23	0	19	NC	1	NC	1
1717		4	max	-0.038	23	0.02	19	0.006	13	0	13	NC	32	NC	32
1718			min	-0.11	5	-0.02	13	-0.005	23	0	19	NC	1	NC	1
1719		5	max	-0.051	23	0.026	19	0.008	13	0	13	NC	32	NC	32
1720			min	-0.147	5	-0.027	13	-0.006	23	0	19	NC	1	NC	1
1721	(A-3)_L1	1	max	0	32	0	32	0	32	0	32	NC	32	NC	32
1722			min	0	1	0	1	0	1	0	1	NC	1	NC	1
1723		2	max	-0.012	23	0.008	19	0.002	13	0	13	NC	32	NC	32
1724			min	-0.035	5	-0.008	13	-0.002	23	0	19	NC	1	NC	1
1725		3	max	-0.024	23	0.016	19	0.004	13	0	13	NC	32	NC	32
1726			min	-0.069	5	-0.017	13	-0.003	23	0	19	NC	1	NC	1
1727		4	max	-0.036	23	0.024	19	0.006	13	0	13	NC	32	NC	32
1728			min	-0.104	5	-0.025	13	-0.005	23	0	19	NC	1	NC	1
1729		5	max	-0.048	23	0.032	19	0.008	13	0	13	NC	32	NC	32
1730			min	-0.139	5	-0.034	13	-0.006	23	0	19	NC	1	NC	1
1731	(B-4)_L1	1	max	0	32	0	32	0	32	0	32	NC	32	NC	32
1732			min	0	1	0	1	0	1	0	1	NC	1	NC	1
1733		2	max	-0.012	21	0.01	19	0.001	14	0	13	NC	32	NC	32
1734			min	-0.035	7	-0.01	13	-0.001	24	0	19	NC	1	NC	1
1735		3	max	-0.024	21	0.019	19	0.003	14	0	13	NC	32	NC	32
1736			min	-0.069	7	-0.02	13	-0.002	24	0	19	NC	1	NC	1
1737		4	max	-0.036	21	0.029	19	0.004	14	0	13	NC	32	NC	32
1738			min	-0.104	7	-0.03	13	-0.004	24	0	19	NC	1	NC	1
1739		5	max	-0.048	21	0.039	19	0.005	14	0	13	NC	32	NC	32
1740			min	-0.139	7	-0.04	13	-0.005	24	0	19	NC	1	NC	1
1741	(A-4)_L1	1	max	0	32	0	32	0	32	0	32	NC	32	NC	32
1742			min	0	1	0	1	0	1	0	1	NC	1	NC	1
1743		2	max	-0.012	21	0.01	19	0.002	13	0	13	NC	32	NC	32
1744			min	-0.035	7	-0.01	13	-0.002	23	0	19	NC	1	NC	1
1745		3	max	-0.024	21	0.019	19	0.004	13	0	13	NC	32	NC	32
1746			min	-0.069	7	-0.02	13	-0.003	23	0	19	NC	1	NC	1
1747		4	max	-0.036	21	0.029	19	0.006	13	0	13	NC	32	NC	32
1748			min	-0.104	7	-0.03	13	-0.005	23	0	19	NC	1	NC	1
1749		5	max	-0.048	21	0.039	19	0.008	13	0	13	NC	32	NC	32
1750			min	-0.139	7	-0.04	13	-0.006	23	0	19	NC	1	NC	1
1751	(B-5)_L1	1	max	0	32	0	32	0	32	0	32	NC	32	NC	32
1752			min	0	1	0	1	0	1	0	1	NC	1	NC	1
1753		2	max	-0.013	23	0.011	19	0.001	14	0	13	NC	32	NC	32
1754			min	-0.037	5	-0.012	13	-0.001	24	0	19	NC	1	NC	1
1755		3	max	-0.025	23	0.023	19	0.003	14	0	13	NC	32	NC	32
1756			min	-0.073	5	-0.024	13	-0.002	24	0	19	NC	1	NC	1
1757		4	max	-0.038	23	0.034	19	0.004	14	0	13	NC	32	NC	32
1758			min	-0.11	5	-0.035	13	-0.004	24	0	19	NC	1	NC	1
1759		5	max	-0.051	23	0.045	19	0.005	14	0	13	NC	32	NC	32
1760			min	-0.147	5	-0.047	13	-0.005	24	0	19	NC	1	NC	1
1761	(A-5)_L1	1	max	0	32	0	32	0	32	0	32	NC	32	NC	32
1762			min	0	1	0	1	0	1	0	1	NC	1	NC	1
1763		2	max	-0.013	23	0.011	19	0.002	13	0	13	NC	32	NC	32
1764			min	-0.037	5	-0.012	13	-0.002	23	0	19	NC	1	NC	1
1765		3	max	-0.025	23	0.023	19	0.004	13	0	13	NC	32	NC	32
1766			min	-0.073	5	-0.024	13	-0.003	23	0	19	NC	1	NC	1
1767		4	max	-0.038	23	0.034	19	0.006	13	0	13	NC	32	NC	32
1768			min	-0.11	5	-0.035	13	-0.005	23	0	19	NC	1	NC	1
1769		5	max	-0.051	23	0.045	19	0.008	13	0	13	NC	32	NC	32
1770			min	-0.147	5	-0.047	13	-0.006	23	0	19	NC	1	NC	1
1771	(A-6)_L1	1	max	0	32	0	32	0	32	0	32	NC	32	NC	32
1772			min	0	1	0	1	0	1	0	1	NC	1	NC	1
1773		2	max	-0.007	21	0.013	15	0.002	13	0	13	NC	32	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
1774			min	-0.027	7	-0.013	13	-0.002	23	0	19	NC	1	NC	1
1775		3	max	-0.013	21	0.026	15	0.004	13	0	13	NC	32	NC	32
1776			min	-0.054	7	-0.026	13	-0.003	23	0	19	7294.185	13	NC	1
1777		4	max	-0.02	21	0.039	15	0.006	13	0	13	NC	32	NC	32
1778			min	-0.081	7	-0.04	13	-0.005	23	0	19	4808.979	13	NC	1
1779		5	max	-0.027	21	0.051	19	0.008	13	0	13	NC	32	NC	32
1780			min	-0.107	7	-0.054	13	-0.006	23	0	19	3551.71	13	NC	1
1781	(M-D)_L1	1	max	0	32	0	32	0	32	0	32	NC	32	NC	32
1782			min	0	1	0	1	0	1	0	1	NC	1	NC	1
1783		2	max	-0.002	23	0.013	19	0.001	23	0	13	NC	32	NC	32
1784			min	-0.008	5	-0.014	13	-0.001	13	0	19	NC	1	NC	1
1785		3	max	-0.004	23	0.026	19	0.003	19	0	13	NC	32	NC	32
1786			min	-0.016	5	-0.028	13	-0.003	13	0	19	6888.111	13	NC	1
1787		4	max	-0.005	23	0.04	19	0.004	15	0	13	NC	32	NC	32
1788			min	-0.024	5	-0.042	13	-0.004	13	0	19	4591.453	13	NC	1
1789		5	max	-0.007	23	0.053	19	0.006	15	0	13	NC	32	NC	32
1790			min	-0.032	5	-0.056	13	-0.005	21	0	19	3442.939	13	NC	1
1791	C15_L1	1	max	0	32	0	32	0	32	0	32	NC	32	NC	32
1792			min	0	1	0	1	0	1	0	1	NC	1	NC	1
1793		2	max	-0.003	21	0.014	19	0.002	13	0	13	NC	32	NC	32
1794			min	-0.013	7	-0.015	13	-0.002	23	0	19	NC	1	NC	1
1795		3	max	-0.006	21	0.029	19	0.005	13	0	13	NC	32	NC	32
1796			min	-0.026	7	-0.031	13	-0.004	23	0	19	NC	1	NC	1
1797		4	max	-0.009	21	0.043	19	0.007	13	0	13	NC	32	NC	32
1798			min	-0.039	7	-0.046	13	-0.006	23	0	19	NC	1	NC	1
1799		5	max	-0.012	21	0.058	19	0.009	13	0	13	NC	32	NC	32
1800			min	-0.052	7	-0.061	13	-0.008	23	0	19	NC	1	NC	1
1801	C19_L1	1	max	0	32	0	32	0	32	0	32	NC	32	NC	32
1802			min	0	1	0	1	0	1	0	1	NC	1	NC	1
1803		2	max	-0.003	23	-0.091	21	0.028	7	0	6	1840.374	21	NC	32
1804			min	-0.013	4	-0.565	7	0.004	21	0	24	343.643	7	6934.688	4
1805		3	max	-0.005	23	-0.138	21	0.044	7	0	6	1166.832	21	NC	32
1806			min	-0.027	4	-0.892	7	0.005	21	0	24	218.205	7	4385.055	4
1807		4	max	-0.008	23	-0.097	21	0.038	7	0	6	1405.983	21	NC	32
1808			min	-0.04	4	-0.744	7	0.002	21	0	24	264.45	7	5230.774	4
1809		5	max	-0.009	23	0.054	13	0.006	23	0	13	NC	32	NC	32
1810			min	-0.048	4	-0.051	19	-0.007	13	0	19	NC	1	NC	1
1811	C20_L1	1	max	0	32	0	32	0	32	0	32	NC	32	NC	32
1812			min	0	1	0	1	0	1	0	1	NC	1	NC	1
1813		2	max	-0.002	23	0.126	5	0.032	4	0	21	NC	23	NC	32
1814			min	-0.008	4	-0.018	23	0.005	21	0	7	1617.516	5	5951.478	4
1815		3	max	-0.003	23	0.192	5	0.047	4	0	21	NC	23	NC	32
1816			min	-0.015	4	-0.036	23	0.007	21	0	7	1075.36	5	4016.798	4
1817		4	max	-0.005	23	0.141	5	0.03	7	0	21	NC	11	NC	32
1818			min	-0.023	4	-0.055	23	0.001	22	0	7	1591.028	5	6422.993	4
1819		5	max	-0.005	23	0.049	13	0.006	23	0	13	NC	32	NC	32
1820			min	-0.026	4	-0.047	19	-0.007	13	0	19	4098.482	19	NC	1
1821	(J-C)_L1	1	max	0	32	0	32	0	32	0	32	NC	32	NC	32
1822			min	0	1	0	1	0	1	0	1	NC	1	NC	1
1823		2	max	-0.001	23	0.01	19	0.003	13	0	13	NC	32	NC	32
1824			min	-0.003	5	-0.01	13	-0.003	23	0	19	NC	1	NC	1
1825		3	max	-0.002	23	0.019	19	0.007	13	0	13	NC	32	NC	32
1826			min	-0.006	5	-0.02	13	-0.006	23	0	19	9905.052	19	NC	1
1827		4	max	-0.003	23	0.029	19	0.01	13	0	13	NC	32	NC	32
1828			min	-0.009	5	-0.031	13	-0.009	23	0	19	6592.412	19	NC	1
1829		5	max	-0.004	23	0.039	19	0.014	13	0	13	NC	32	NC	32
1830			min	-0.012	5	-0.041	13	-0.012	23	0	19	4932.851	19	NC	1
1831	(K-C)_L1	1	max	0	32	0	32	0	32	0	32	NC	32	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
1832			min	0	1	0	1	0	1	0	1	NC	1	NC	1
1833		2	max	-0.001	23	-0.015	23	0.004	21	0	13	NC	23	NC	32
1834			min	-0.003	5	-0.162	5	-0.003	15	0	19	1230.658	4	NC	1
1835		3	max	-0.002	23	-0.02	23	0.007	13	0	13	9816.029	23	NC	32
1836			min	-0.007	5	-0.258	5	-0.006	15	0	19	782.035	4	NC	1
1837		4	max	-0.003	23	-0.002	23	0.011	13	0	13	NC	23	NC	32
1838			min	-0.01	5	-0.22	5	-0.008	23	0	19	950.576	4	NC	1
1839		5	max	-0.005	23	0.042	19	0.014	13	0	13	NC	32	NC	32
1840			min	-0.015	5	-0.044	13	-0.012	23	0	19	4602.782	23	NC	1
1841	(C-5)_L1	1	max	0	32	0	32	0	32	0	32	NC	32	NC	32
1842			min	0	1	0	1	0	1	0	1	NC	1	NC	1
1843		2	max	-0.002	21	0.025	23	0.007	13	0	13	NC	23	NC	32
1844			min	-0.008	7	-0.102	5	-0.004	23	0	19	2017.773	5	NC	1
1845		3	max	-0.004	21	0.045	23	0.013	13	0	13	NC	19	NC	32
1846			min	-0.017	7	-0.163	5	-0.008	23	0	19	1282.106	5	NC	1
1847		4	max	-0.006	21	0.052	23	0.016	13	0	13	NC	23	NC	32
1848			min	-0.025	7	-0.143	5	-0.01	23	0	19	1557.906	5	NC	1
1849		5	max	-0.009	21	0.045	19	0.014	13	0	13	NC	32	NC	32
1850			min	-0.034	7	-0.047	13	-0.012	23	0	19	4278.49	15	NC	1
1851	M193	1	max	-0.003	21	-0.018	23	0.056	23	0.005	4	NC	32	NC	32
1852			min	-0.04	7	-0.093	4	-0.14	13	0.001	23	NC	1	NC	1
1853		2	max	-0.002	21	-0.257	23	0.383	15	0.003	4	1129.341	23	NC	32
1854			min	-0.039	7	-0.915	4	-0.31	21	0.001	23	324.522	4	1095.483	15
1855		3	max	-0.002	21	-0.341	23	0.588	15	0.001	3	820.17	23	NC	32
1856			min	-0.037	7	-1.192	4	-0.357	21	-0.001	7	236.469	4	787.126	15
1857		4	max	-0.002	21	-0.229	23	0.677	7	-0.001	3	1163.544	23	NC	32
1858			min	-0.036	7	-0.788	4	-0.197	21	-0.004	7	337.832	4	1122.792	15
1859		5	max	-0.001	21	0.096	7	0.744	7	-0.002	21	NC	32	NC	32
1860			min	-0.034	7	0.019	21	0.097	21	-0.009	7	NC	1	NC	1
1861	M194	1	max	-0.001	21	0.096	7	0.744	7	-0.002	21	NC	32	NC	32
1862			min	-0.035	7	0.019	21	0.097	21	-0.009	7	NC	1	NC	1
1863		2	max	-0.001	21	-0.095	23	0.755	7	-0.001	21	2145.42	32	NC	32
1864			min	-0.034	7	-0.281	4	-0.334	21	-0.006	7	709.496	4	636.854	23
1865		3	max	-0.001	21	-0.147	23	0.795	15	0	21	1528.612	21	NC	32
1866			min	-0.034	7	-0.453	4	-0.541	21	-0.004	7	505.516	4	453.759	23
1867		4	max	-0.001	21	-0.109	23	0.557	15	0	17	2145.42	22	NC	32
1868			min	-0.033	7	-0.353	4	-0.444	21	-0.002	7	709.496	4	636.854	23
1869		5	max	-0.001	21	-0.004	23	0.104	23	0.001	13	NC	32	NC	32
1870			min	-0.033	7	-0.053	5	-0.133	13	0	23	NC	1	NC	1
1871	M196	1	max	-0.001	21	-0.004	23	0.104	23	0.001	13	NC	32	NC	32
1872			min	-0.033	7	-0.053	5	-0.133	13	0	23	NC	1	NC	1
1873		2	max	-0.001	21	-0.123	23	0.466	23	0.001	5	2135.007	23	NC	32
1874			min	-0.033	7	-0.397	4	-0.508	13	0	23	701.104	4	625.862	13
1875		3	max	-0.001	21	-0.171	21	0.597	23	0.001	4	1521.192	32	NC	32
1876			min	-0.032	7	-0.537	4	-0.652	13	0	23	499.537	4	445.927	13
1877		4	max	-0.001	21	-0.122	21	0.419	23	0.002	7	2135.007	32	NC	32
1878			min	-0.032	7	-0.4	4	-0.486	13	0	21	701.104	4	625.862	13
1879		5	max	-0.001	21	-0.005	21	0.01	23	0.002	7	NC	32	NC	32
1880			min	-0.032	7	-0.061	7	-0.11	5	0	21	NC	1	NC	1
1881	M197	1	max	0.04	7	-0.018	23	0.14	13	-0.001	23	NC	32	NC	32
1882			min	0.003	21	-0.093	4	-0.056	23	-0.005	4	NC	1	NC	1
1883		2	max	0.041	7	-0.134	23	0.242	13	-0.001	23	1911.702	21	NC	32
1884			min	0.003	21	-0.529	4	-0.14	23	-0.006	4	505.378	4	2230.254	15
1885		3	max	0.042	7	-0.183	23	0.286	13	-0.001	23	1352.131	21	NC	32
1886			min	0.003	21	-0.713	4	-0.166	23	-0.006	4	355.571	4	1593.3	15
1887		4	max	0.042	7	-0.139	23	0.25	13	-0.001	23	1878.36	21	NC	32
1888			min	0.003	21	-0.543	4	-0.113	23	-0.006	4	492.867	4	2228.591	15
1889		5	max	0.043	7	-0.023	21	0.219	5	-0.001	23	NC	32	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
1890			min	0.004	21	-0.099	4	0	23	-0.006	4	NC	1	NC	1
1891	M198	1	max	0.052	23	-0.006	21	0.01	23	0	24	NC	32	NC	32
1892			min	-0.143	5	-0.025	7	-0.016	13	0	14	NC	1	NC	1
1893		2	max	0.052	23	0.017	5	0.012	23	0	24	NC	23	NC	32
1894			min	-0.143	5	-0.001	23	-0.018	13	0	6	2183.882	4	NC	1
1895		3	max	0.052	23	0.038	5	0.014	23	0	24	8259.03	23	NC	32
1896			min	-0.143	5	0.003	23	-0.019	13	0	6	1333.167	4	NC	1
1897		4	max	0.052	23	0.015	5	0.019	15	0	24	8216.131	23	NC	32
1898			min	-0.144	5	0	23	-0.018	21	0	6	1418.927	4	NC	1
1899		5	max	0.052	23	-0.018	23	0.029	7	0	24	NC	23	NC	32
1900			min	-0.144	5	-0.093	4	-0.016	21	0	6	1883.445	4	4114.305	7
1901	M199	1	max	-0.097	21	0.365	7	0.002	21	0	6	NC	32	NC	32
1902			min	-0.744	7	0.074	21	-0.017	7	0	24	NC	1	NC	1
1903		2	max	-0.097	21	-0.022	21	-0.002	21	0.001	6	3083.24	21	NC	32
1904			min	-0.744	7	-0.102	7	-0.039	7	0	24	688.28	4	NC	1
1905		3	max	-0.097	21	-0.18	21	-0.004	21	0.001	6	2789.071	21	NC	32
1906			min	-0.745	7	-0.826	7	-0.043	7	0	24	593.862	4	NC	1
1907		4	max	-0.097	21	-0.38	21	-0.004	21	0.001	6	5062.728	21	NC	32
1908			min	-0.745	7	-1.751	7	-0.042	7	0	24	1028.807	4	NC	1
1909		5	max	-0.097	21	-0.588	21	-0.004	22	0.001	6	NC	32	NC	32
1910			min	-0.746	7	-2.733	7	-0.039	8	0	24	NC	1	NC	1
1911	M200	1	max	0.104	23	-0.008	21	0.024	7	0	24	NC	32	NC	32
1912			min	-0.133	13	-0.038	4	-0.001	21	0	5	4147.881	23	NC	1
1913		2	max	0.104	23	-0.007	23	0.026	7	0	24	NC	32	NC	32
1914			min	-0.133	13	-0.042	5	0	21	0	5	3475.82	13	6584.725	4
1915		3	max	0.104	23	-0.006	23	0.028	7	0	24	NC	19	NC	32
1916			min	-0.133	13	-0.045	5	0	21	0	5	1708.49	13	3235.218	4
1917		4	max	0.104	23	-0.005	23	0.03	7	0	24	NC	23	NC	22
1918			min	-0.133	13	-0.049	5	0.001	21	0	5	1127.905	13	2128.084	4
1919		5	max	0.104	23	-0.004	23	0.033	7	0	24	NC	23	7772.415	21
1920			min	-0.133	13	-0.053	5	0.001	21	0	5	843.637	13	1581.021	4
1921	M201	1	max	0.01	23	-0.005	24	0.03	7	0	24	NC	32	NC	32
1922			min	-0.109	5	-0.024	4	0.001	21	0	5	NC	1	NC	1
1923		2	max	0.01	23	-0.005	21	0.03	7	0	24	NC	32	NC	32
1924			min	-0.109	5	-0.032	7	0.001	21	0	5	NC	1	NC	1
1925		3	max	0.01	23	-0.005	21	0.031	7	0	24	NC	32	NC	32
1926			min	-0.109	5	-0.041	7	0.001	21	0	5	NC	1	NC	1
1927		4	max	0.01	23	-0.005	21	0.032	7	0	24	NC	32	NC	32
1928			min	-0.11	5	-0.051	7	0.001	21	-0.001	5	NC	1	NC	1
1929		5	max	0.01	23	-0.005	21	0.032	7	0	24	NC	32	NC	32
1930			min	-0.11	5	-0.061	7	0.001	21	-0.001	5	NC	1	NC	1
1931	M205	1	max	0.064	7	0.333	15	-0.003	24	0	19	NC	24	NC	24
1932			min	0.004	21	-0.214	21	-0.056	5	0	13	348.063	15	1484.006	4
1933		2	max	0.064	7	0.203	15	0.001	23	0	19	NC	24	NC	24
1934			min	0.004	21	-0.133	21	-0.035	5	0	13	537.716	7	1992.398	4
1935		3	max	0.063	7	0.094	15	0.005	23	0	19	NC	24	NC	32
1936			min	0.004	21	-0.074	21	-0.014	5	0	13	910.129	7	3030.632	4
1937		4	max	0.062	7	0.038	23	0.014	7	0	7	NC	24	NC	32
1938			min	0.004	21	-0.069	13	-0.004	21	0	21	1889.512	5	6373.924	4
1939		5	max	0.061	7	0.01	23	0.032	7	0	7	NC	32	NC	32
1940			min	0.005	21	-0.11	5	0.001	21	0	21	1070.084	5	NC	1
1941	M212	1	max	0.058	19	-0.006	24	0.006	23	0	24	NC	32	NC	32
1942			min	-0.062	13	-0.028	4	-0.007	13	-0.001	4	NC	1	NC	1
1943		2	max	0.058	19	-0.007	21	0.006	23	0	24	NC	32	NC	32
1944			min	-0.062	13	-0.036	7	-0.007	13	-0.001	4	NC	1	NC	1
1945		3	max	0.058	19	-0.006	21	0.006	23	0	24	NC	32	NC	32
1946			min	-0.062	13	-0.045	7	-0.007	13	-0.001	4	NC	1	NC	1
1947		4	max	0.058	19	-0.005	21	0.006	23	0	24	NC	32	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
1948			min	-0.062	13	-0.053	7	-0.007	13	-0.001	4	NC	1	NC	1
1949		5	max	0.058	19	-0.004	21	0.006	23	0	24	NC	32	NC	32
1950			min	-0.062	13	-0.062	7	-0.008	13	-0.001	4	NC	1	NC	1
1951	M213	1	max	0.097	4	0.344	7	0.004	23	0	7	NC	32	NC	24
1952			min	0.022	21	-0.055	21	-0.087	5	0	21	238.932	7	992.302	5
1953		2	max	0.097	4	0.21	7	0.005	23	0	7	NC	32	NC	24
1954			min	0.022	21	-0.043	21	-0.052	5	0	21	323.145	7	1382.928	5
1955		3	max	0.097	4	0.083	15	0.007	23	0	7	NC	32	NC	32
1956			min	0.022	21	-0.042	21	-0.019	5	0	21	494.395	7	2201.014	5
1957		4	max	0.097	4	0.028	23	0.017	7	0	7	NC	32	NC	32
1958			min	0.022	21	-0.09	5	-0.004	21	0	21	967.04	7	3648.25	15
1959		5	max	0.099	4	0	23	0.043	7	0	7	NC	32	NC	32
1960			min	0.023	21	-0.219	5	0.003	21	0	21	639.471	13	2605.733	15
1961	M216	1	max	0.043	7	-0.023	21	0.219	5	-0.001	23	NC	32	NC	32
1962			min	0.003	21	-0.099	4	0	23	-0.006	4	NC	1	NC	1
1963		2	max	0.044	7	-0.076	23	0.153	5	-0.001	21	4444.85	23	NC	32
1964			min	0.004	21	-0.316	4	-0.066	23	-0.003	4	1001.18	4	3950.737	15
1965		3	max	0.044	7	-0.055	24	0.1	13	0	21	5841.008	23	NC	32
1966			min	0.004	21	-0.231	4	-0.071	23	-0.001	4	1178.44	4	3458.789	7
1967		4	max	0.045	7	0.005	5	0.03	21	0	5	NC	32	NC	32
1968			min	0.004	21	-0.003	19	-0.035	15	0	23	7344.114	5	4555.664	5
1969		5	max	0.045	7	0.087	5	0.043	21	0.001	13	NC	32	NC	32
1970			min	0.004	21	0.003	23	-0.049	15	-0.001	23	NC	1	NC	1
1971	M218	1	max	0.005	19	0.217	19	0.004	23	0.002	15	NC	32	NC	32
1972			min	-0.003	5	-0.218	13	-0.087	5	-0.001	21	642.688	13	979.278	5
1973		2	max	0.005	19	0.131	19	0.008	23	0.001	15	NC	32	NC	32
1974			min	-0.003	13	-0.134	13	-0.053	5	-0.001	21	1146.796	13	1343.815	5
1975		3	max	0.005	19	0.064	19	0.01	23	0.001	19	NC	32	NC	32
1976			min	-0.003	13	-0.067	13	-0.023	5	-0.001	13	3098.896	13	1998.402	5
1977		4	max	0.004	19	0.037	15	0.012	15	0	23	NC	32	NC	32
1978			min	-0.003	5	-0.036	17	-0.007	21	0	13	NC	1	3413.317	5
1979		5	max	0.004	19	0.035	15	0.045	7	0	23	NC	32	NC	32
1980			min	-0.003	5	-0.03	21	0.004	21	0	13	NC	1	3998.914	20
1981	M220	1	max	0.087	5	0.087	5	0.181	23	0.001	23	NC	32	NC	32
1982			min	-0.004	23	0.002	23	-0.197	13	-0.001	13	NC	1	NC	1
1983		2	max	0.087	5	0.004	5	0.215	19	0.003	19	NC	32	NC	32
1984			min	-0.004	23	-0.005	19	-0.217	13	-0.003	13	7098.259	5	3136.816	5
1985		3	max	0.087	5	-0.024	21	0.401	15	0.003	15	NC	32	NC	32
1986			min	-0.004	23	-0.071	4	-0.358	21	-0.002	21	3988.743	5	997.798	13
1987		4	max	0.087	5	-0.036	24	0.469	15	0.003	7	NC	32	NC	32
1988			min	-0.004	23	-0.106	4	-0.344	21	-0.001	21	4721.677	5	963.228	13
1989		5	max	0.087	5	-0.022	21	0.344	7	0.004	7	NC	32	NC	32
1990			min	-0.004	23	-0.097	4	-0.055	21	0	21	NC	1	NC	1
1991	M223	1	max	0	32	0	32	0	32	0	32	NC	32	NC	32
1992			min	0	1	0	1	0	1	0	1	NC	1	NC	1
1993		2	max	-0.001	21	0.088	24	0.083	21	0.001	23	NC	23	NC	32
1994			min	-0.006	7	-0.213	6	-0.183	15	-0.002	13	1252.481	6	1458.604	15
1995		3	max	-0.001	21	0.248	24	0.242	21	0.003	23	NC	20	NC	32
1996			min	-0.012	7	-0.833	6	-0.522	15	-0.004	13	320.511	6	511.068	15
1997		4	max	-0.002	21	0.394	24	0.395	21	0.003	23	NC	20	NC	32
1998			min	-0.016	7	-1.747	6	-0.802	15	-0.005	13	152.851	6	332.715	15
1999		5	max	-0.001	21	0.546	24	0.538	21	0.004	23	NC	20	NC	32
2000			min	-0.019	7	-2.772	6	-1.047	15	-0.006	13	96.335	6	254.999	15
2001	M224	1	max	0.075	15	1.047	15	2.806	6	0.006	13	NC	32	NC	24
2002			min	-0.026	21	-0.538	21	-0.529	24	-0.004	23	2893.3	5	77.942	4
2003		2	max	0.076	15	0.935	15	2.356	6	0.006	13	NC	32	NC	24
2004			min	-0.026	21	-0.477	21	-0.467	24	-0.004	23	4457.923	5	103.62	4
2005		3	max	0.077	15	0.829	15	1.898	6	0.006	13	NC	32	NC	24

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
2006			min	-0.026	21	-0.415	21	-0.404	24	-0.004	23	6385.168	15	156.088	4
2007		4	max	0.077	15	0.71	15	1.436	6	0.005	13	NC	32	NC	24
2008			min	-0.026	21	-0.345	21	-0.335	24	-0.004	23	6290.807	15	316.123	4
2009		5	max	0.078	15	0.571	15	0.981	6	0.005	13	NC	32	NC	32
2010			min	-0.026	21	-0.266	21	-0.259	24	-0.004	23	NC	1	NC	1
2011	M225	1	max	0.572	15	0.734	6	0.005	5	0.009	6	NC	32	NC	32
2012			min	-0.263	21	-0.331	24	0	23	-0.003	24	NC	1	NC	1
2013		2	max	0.572	15	0.829	6	0.102	15	0.01	6	NC	32	NC	32
2014			min	-0.264	21	-0.357	24	-0.029	21	-0.003	24	4063.486	15	2542.775	15
2015		3	max	0.571	15	0.891	6	0.053	4	0.011	6	NC	32	NC	32
2016			min	-0.265	21	-0.346	24	0.013	23	-0.003	24	2532.189	15	4793.05	13
2017		4	max	0.571	15	0.934	6	0.047	21	0.012	6	NC	32	NC	32
2018			min	-0.265	21	-0.305	24	-0.053	15	-0.002	24	2860.406	15	1854.306	15
2019		5	max	0.571	15	0.981	6	0.078	15	0.017	6	NC	32	NC	32
2020			min	-0.266	21	-0.259	24	-0.026	21	0	24	NC	1	NC	1
2021	M229	1	max	0	32	0	32	0	32	0	32	NC	32	NC	32
2022			min	0	1	0	1	0	1	0	1	NC	1	NC	1
2023		2	max	0	23	0.098	24	0.074	21	0.001	24	NC	32	NC	32
2024			min	-0.003	5	-0.188	14	-0.189	15	-0.002	14	1419.941	14	1568.117	19
2025		3	max	0	23	0.297	24	0.236	21	0.001	24	NC	17	NC	32
2026			min	-0.005	5	-0.641	6	-0.525	15	-0.002	14	416.303	6	559.306	19
2027		4	max	0	23	0.52	24	0.402	21	0	23	NC	12	NC	32
2028			min	-0.006	5	-1.29	6	-0.808	15	-0.003	5	206.981	6	361.037	19
2029		5	max	0.001	23	0.741	24	0.536	21	0.001	23	NC	21	NC	32
2030			min	-0.006	5	-2.03	6	-1.045	15	-0.004	5	131.554	6	279.436	19
2031	M226	1	max	1.045	15	2.029	6	0.006	5	0.011	6	NC	32	NC	32
2032			min	-0.536	21	-0.741	24	-0.001	23	-0.003	24	NC	1	NC	1
2033		2	max	1.046	15	2.245	6	0.069	7	0.013	6	NC	32	NC	32
2034			min	-0.537	21	-0.716	24	-0.021	21	-0.003	24	3508.722	15	4337.854	7
2035		3	max	1.046	15	2.468	6	0.044	5	0.014	6	NC	32	NC	32
2036			min	-0.537	21	-0.662	24	-0.009	23	-0.003	24	2169.922	15	5041.652	19
2037		4	max	1.047	15	2.665	6	0.037	21	0.015	6	NC	32	NC	32
2038			min	-0.538	21	-0.593	24	-0.046	19	-0.002	24	2457.835	15	2038.195	15
2039		5	max	1.047	15	2.806	6	0.075	15	0.017	6	NC	32	NC	32
2040			min	-0.538	21	-0.529	24	-0.026	21	-0.002	24	NC	1	NC	1
2041	M227	1	max	2.806	6	0.538	21	0.075	15	0.002	21	NC	32	NC	32
2042			min	-0.529	24	-1.047	15	-0.026	21	-0.004	15	NC	1	NC	1
2043		2	max	-0.003	24	1.137	21	1.996	6	0.002	21	NC	32	NC	24
2044			min	-0.056	5	-1.477	15	-0.006	24	-0.004	15	588.84	13	216.319	6
2045		3	max	-0.003	24	1.412	21	3.007	6	0.002	21	NC	32	7052.517	24
2046			min	-0.056	5	-1.644	15	0.075	24	-0.004	15	391.079	13	142.326	6
2047		4	max	-0.003	24	1.064	21	2.248	6	0.002	21	NC	32	5452.979	24
2048			min	-0.056	5	-1.23	15	0.091	24	-0.004	15	529.25	13	191.748	6
2049		5	max	-0.003	24	0.214	21	0.064	7	0.003	21	NC	32	NC	32
2050			min	-0.056	5	-0.333	15	0.004	21	-0.004	15	NC	1	NC	1
2051	M228	1	max	0.981	6	0.266	21	0.078	15	0.002	21	NC	32	NC	32
2052			min	-0.259	24	-0.571	15	-0.026	21	-0.004	15	NC	1	NC	1
2053		2	max	0.032	7	0.812	21	2.432	4	0.001	21	NC	32	960.174	24
2054			min	0.001	21	-0.999	15	0.454	24	-0.004	15	692.595	13	176.952	4
2055		3	max	0.032	7	1.104	21	4.064	4	0.001	21	NC	32	450.292	24
2056			min	0.001	21	-1.192	15	0.948	24	-0.003	7	441.253	13	104.835	4
2057		4	max	0.032	7	0.826	13	3.174	4	0	21	NC	32	533.308	24
2058			min	0.001	21	-0.828	19	0.802	24	-0.003	7	585.568	13	134.813	4
2059		5	max	0.032	7	0.11	5	0.061	7	0	21	NC	32	NC	32
2060			min	0.001	21	-0.01	23	0.005	21	-0.002	7	NC	1	NC	1
2061	M221	1	max	0	32	0	32	0	32	0	32	NC	32	NC	32
2062			min	0	1	0	1	0	1	0	1	NC	1	NC	1
2063		2	max	0	23	0.01	15	-0.008	22	0	13	NC	32	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
2064			min	0	17	-0.011	17	-0.047	4	0	23	NC	1	4066.06	4
2065		3	max	0	23	0.02	15	-0.011	22	0	13	NC	32	NC	32
2066			min	-0.001	17	-0.021	17	-0.07	4	0	23	9824.989	13	2716.856	4
2067		4	max	0	23	0.03	15	-0.002	21	0	13	NC	32	NC	32
2068			min	-0.001	17	-0.031	17	-0.048	7	0	23	6495.446	13	4108.276	5
2069		5	max	0.001	23	0.039	19	0.015	13	0	13	NC	32	NC	32
2070			min	-0.002	13	-0.041	13	-0.013	23	0	19	4731.005	13	NC	1
2071	M222	1	max	0	32	0	32	0	32	0	32	NC	32	NC	32
2072			min	0	1	0	1	0	1	0	1	NC	1	NC	1
2073		2	max	-0.002	21	0.172	5	0.036	4	0	21	NC	23	NC	32
2074			min	-0.008	4	0.016	23	0.006	22	0	7	1158.667	5	5264.185	4
2075		3	max	-0.004	21	0.27	5	0.055	4	0	21	9393.036	23	NC	32
2076			min	-0.016	4	0.02	23	0.009	22	0	7	747.441	5	3458.947	4
2077		4	max	-0.006	21	0.218	5	0.04	7	0	21	NC	23	NC	32
2078			min	-0.024	4	0	23	0.003	22	0	7	964.98	5	4840.114	4
2079		5	max	-0.006	23	0.046	13	0.006	23	0	13	NC	32	NC	32
2080			min	-0.028	4	-0.044	19	-0.007	13	0	19	4420.996	23	NC	1
2081	M230	1	max	-0.002	23	-0.003	23	0.008	23	0	23	NC	32	NC	32
2082			min	-0.22	5	-0.01	5	-0.011	13	0	5	NC	1	NC	1
2083		2	max	-0.002	23	0.018	4	0.009	23	0	23	8103.776	21	NC	32
2084			min	-0.22	5	0.003	21	-0.012	13	0	5	1820.734	4	NC	1
2085		3	max	-0.002	23	0.027	4	0.011	15	0	23	4979.688	21	NC	32
2086			min	-0.221	5	0.005	21	-0.012	13	0	5	1123.259	4	NC	1
2087		4	max	-0.002	23	-0.001	3	0.013	15	0	23	5415.328	21	NC	32
2088			min	-0.221	5	-0.003	5	-0.012	21	0	5	1230.282	4	NC	1
2089		5	max	-0.002	23	-0.023	21	0.016	15	0	24	NC	32	NC	32
2090			min	-0.222	5	-0.099	4	-0.013	21	0	6	NC	1	NC	1
2091	M217	1	max	0.038	15	0.001	23	0.014	15	0	23	NC	32	NC	32
2092			min	-0.039	13	-0.002	13	-0.012	21	-0.001	5	NC	1	NC	1
2093		2	max	0.038	15	0	23	0.015	15	0	23	NC	32	NC	32
2094			min	-0.04	13	-0.002	17	-0.013	21	-0.001	5	NC	1	NC	1
2095		3	max	0.038	15	0	5	0.015	15	0	23	NC	32	NC	32
2096			min	-0.04	13	-0.001	19	-0.014	21	-0.001	5	NC	1	NC	1
2097		4	max	0.038	15	0.002	5	0.016	15	0	23	NC	32	NC	32
2098			min	-0.04	13	-0.003	19	-0.016	21	-0.001	5	NC	1	NC	1
2099		5	max	0.038	15	0.003	13	0.017	15	0	23	NC	32	NC	32
2100			min	-0.04	13	-0.005	19	-0.017	13	-0.001	5	NC	1	NC	1
2101	M219	1	max	0.036	23	-0.006	23	0.013	23	0	23	NC	32	NC	32
2102			min	-0.058	13	-0.028	4	-0.015	13	0	5	NC	1	NC	1
2103		2	max	0.036	23	-0.01	23	0.014	23	0	23	NC	32	NC	32
2104			min	-0.058	13	-0.046	4	-0.015	13	0	5	NC	1	NC	1
2105		3	max	0.037	23	-0.014	23	0.014	19	0	23	NC	32	NC	32
2106			min	-0.058	13	-0.063	4	-0.015	13	0	5	NC	1	NC	1
2107		4	max	0.037	23	-0.018	22	0.015	15	0	23	NC	32	NC	32
2108			min	-0.058	13	-0.08	4	-0.015	13	0	5	NC	1	NC	1
2109		5	max	0.037	23	-0.022	21	0.015	15	0	23	NC	32	NC	32
2110			min	-0.058	13	-0.097	4	-0.015	13	0	5	NC	1	NC	1
2111	M232	1	max	-0.002	23	0.181	23	0.004	23	0	7	NC	32	NC	24
2112			min	-0.087	5	-0.197	13	-0.087	5	0	21	781.41	13	978.861	5
2113		2	max	-0.002	23	0.142	23	0.007	23	0	5	NC	32	NC	24
2114			min	-0.087	5	-0.153	13	-0.053	5	0	23	1087.226	13	1339.958	5
2115		3	max	-0.002	23	0.106	23	0.011	23	0	13	NC	32	NC	32
2116			min	-0.087	5	-0.111	13	-0.022	5	0	23	1712.093	13	2032.284	5
2117		4	max	-0.003	23	0.075	15	0.018	7	0	13	NC	32	NC	32
2118			min	-0.087	5	-0.074	21	-0.004	21	0	23	3619.47	13	4045.429	5
2119		5	max	-0.003	23	0.049	15	0.045	7	0	13	NC	32	NC	32
2120			min	-0.087	5	-0.043	21	0.004	21	0	19	NC	1	NC	1
2121	M233	1	max	-0.014	21	-0.249	23	0.03	15	0.014	4	NC	32	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
2122			min	-0.143	7	-1.246	4	-0.031	17	0.003	23	NC	1	NC	1
2123		2	max	-0.014	21	-0.359	23	0.059	23	0.015	4	2635.231	23	NC	32
2124			min	-0.143	7	-1.72	4	-0.083	13	0.003	23	574.904	4	4326.969	15
2125		3	max	-0.014	21	-0.423	23	0.073	23	0.016	4	1909.271	23	NC	32
2126			min	-0.143	7	-1.987	4	-0.134	13	0.003	23	415.616	4	2890.602	15
2127		4	max	-0.014	21	-0.429	23	0.05	23	0.017	4	2713.625	23	NC	32
2128			min	-0.143	7	-1.989	4	-0.175	5	0.004	23	589.358	4	3924.32	15
2129		5	max	-0.014	21	-0.394	23	-0.001	23	0.018	4	NC	32	NC	32
2130			min	-0.143	7	-1.799	4	-0.222	5	0.004	23	NC	1	NC	1
2131	M234	1	max	0.006	23	-0.006	23	0.046	13	-0.001	23	NC	32	NC	32
2132			min	-0.007	13	-0.028	4	-0.044	19	-0.004	4	NC	1	NC	1
2133		2	max	0.006	23	-0.025	23	0.045	13	-0.001	21	9627.039	21	NC	32
2134			min	-0.007	13	-0.137	4	-0.043	19	-0.003	4	1694.075	4	NC	1
2135		3	max	0.006	23	-0.032	23	0.044	13	0	21	6679.412	24	NC	32
2136			min	-0.007	13	-0.185	5	-0.042	19	-0.002	4	1151.796	4	NC	1
2137		4	max	0.006	23	-0.021	23	0.043	13	0	21	9627.11	23	NC	32
2138			min	-0.007	13	-0.128	5	-0.041	19	-0.001	7	1635.775	5	NC	1
2139		5	max	0.006	23	0.001	23	0.043	13	0	5	NC	32	NC	32
2140			min	-0.007	13	-0.002	13	-0.041	19	0	23	NC	1	NC	1
2141	M235	1	max	-0.014	21	-0.394	23	-0.001	23	0.018	4	NC	32	NC	32
2142			min	-0.143	7	-1.799	4	-0.222	5	0.004	23	NC	1	NC	1
2143		2	max	-0.014	21	-0.426	23	0.108	23	0.016	4	2480.877	23	NC	32
2144			min	-0.143	7	-1.932	4	-0.25	5	0.003	23	577.068	4	2255.048	13
2145		3	max	-0.014	21	-0.408	23	0.16	23	0.014	4	1738.016	23	NC	32
2146			min	-0.143	7	-1.849	4	-0.284	13	0.003	23	405.331	4	1605.782	13
2147		4	max	-0.014	21	-0.318	23	0.135	23	0.013	4	2420.917	23	NC	32
2148			min	-0.143	7	-1.457	4	-0.241	13	0.003	23	563.974	4	2254.352	13
2149		5	max	-0.014	21	-0.174	23	0.053	23	0.011	4	NC	32	NC	32
2150			min	-0.143	7	-0.832	4	-0.144	5	0.002	23	NC	1	NC	1
2151	M236	1	max	-0.014	21	-0.174	23	0.053	23	0.011	4	NC	32	NC	32
2152			min	-0.143	7	-0.832	4	-0.144	5	0.002	23	NC	1	NC	1
2153		2	max	-0.014	21	-0.252	23	0.367	15	0.011	4	1896.728	21	NC	32
2154			min	-0.144	7	-1.062	4	-0.302	21	0.002	23	516.427	4	1098.973	13
2155		3	max	-0.014	21	-0.252	23	0.571	15	0.011	4	1301.286	21	NC	32
2156			min	-0.144	7	-1.005	4	-0.354	21	0.002	23	355.029	4	777.086	13
2157		4	max	-0.014	21	-0.128	23	0.654	7	0.011	4	1803.765	21	NC	32
2158			min	-0.144	7	-0.497	4	-0.209	21	0.002	23	490.179	4	1065.934	13
2159		5	max	-0.014	21	0.365	7	0.73	7	0.011	4	NC	32	NC	32
2160			min	-0.145	7	0.074	21	0.095	21	0.002	23	NC	1	NC	1
2161	M237	1	max	0.136	23	-0.134	23	0.043	15	0.007	4	NC	32	NC	32
2162			min	-0.241	13	-0.529	4	-0.032	21	0.002	23	NC	1	NC	1
2163		2	max	0.136	23	-0.183	23	0.061	7	0.008	4	NC	32	NC	32
2164			min	-0.241	13	-0.775	4	-0.021	21	0.002	21	6337.267	6	NC	1
2165		3	max	0.135	23	-0.23	23	0.089	7	0.008	4	NC	32	NC	32
2166			min	-0.241	13	-1.013	4	-0.009	21	0.002	21	4515.303	6	NC	1
2167		4	max	0.135	23	-0.275	23	0.116	7	0.009	4	NC	32	NC	32
2168			min	-0.241	13	-1.239	4	0.002	21	0.002	21	6337.267	5	NC	1
2169		5	max	0.135	23	-0.318	23	0.143	7	0.01	4	NC	32	NC	32
2170			min	-0.241	13	-1.457	4	0.014	21	0.002	21	NC	1	NC	1
2171	M238	1	max	0.161	23	-0.183	23	0.047	15	0.001	4	NC	32	NC	32
2172			min	-0.284	13	-0.713	4	-0.038	21	0	22	NC	1	NC	1
2173		2	max	0.161	23	-0.244	23	0.061	7	0.002	4	NC	32	NC	32
2174			min	-0.284	13	-1.018	4	-0.025	21	0	21	4686.903	5	NC	1
2175		3	max	0.161	23	-0.302	23	0.088	7	0.003	4	NC	32	NC	32
2176			min	-0.284	13	-1.311	4	-0.012	21	0.001	21	3339.418	5	NC	1
2177		4	max	0.16	23	-0.356	23	0.116	7	0.004	4	NC	32	NC	32
2178			min	-0.284	13	-1.586	4	0.001	21	0.001	21	4686.903	4	NC	1
2179		5	max	0.16	23	-0.408	23	0.143	7	0.004	4	NC	32	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
2180			min	-0.284	13	-1.849	4	0.014	21	0.001	21	NC	1	NC	1
2181	M239	1	max	0.108	23	-0.139	23	0.036	15	-0.001	23	NC	32	NC	32
2182			min	-0.251	5	-0.543	4	-0.031	21	-0.005	4	NC	1	NC	1
2183		2	max	0.108	23	-0.217	23	0.055	7	-0.001	23	NC	32	NC	32
2184			min	-0.251	5	-0.921	4	-0.019	21	-0.004	4	3563.273	4	NC	1
2185		3	max	0.108	23	-0.291	23	0.084	7	-0.001	23	NC	32	NC	32
2186			min	-0.251	5	-1.28	4	-0.008	21	-0.003	4	2538.832	4	NC	1
2187		4	max	0.108	23	-0.36	23	0.114	7	-0.001	23	NC	32	NC	32
2188			min	-0.251	5	-1.615	4	0.003	21	-0.002	4	3563.273	4	NC	1
2189		5	max	0.108	23	-0.426	23	0.143	7	0	23	NC	32	NC	32
2190			min	-0.25	5	-1.932	4	0.014	21	-0.001	4	NC	1	NC	1
2191	M240	1	max	0.051	23	-0.068	23	0.029	15	0.003	4	NC	32	NC	32
2192			min	-0.175	5	-0.284	4	-0.017	21	0.001	23	NC	1	NC	1
2193		2	max	0.051	23	-0.169	23	0.057	7	0.003	4	NC	32	NC	32
2194			min	-0.175	5	-0.767	4	-0.009	21	0.001	23	2253.219	8	NC	1
2195		3	max	0.051	23	-0.264	23	0.086	7	0.003	4	8342.329	21	NC	32
2196			min	-0.175	5	-1.216	4	-0.001	21	0.001	24	1605.419	4	NC	1
2197		4	max	0.051	23	-0.35	23	0.114	7	0.003	4	NC	32	NC	32
2198			min	-0.175	5	-1.619	4	0.006	21	0	24	2253.219	8	NC	1
2199		5	max	0.05	23	-0.429	23	0.143	7	0.002	4	NC	32	NC	32
2200			min	-0.175	5	-1.989	4	0.014	21	0	24	NC	1	NC	1
2201	M241	1	max	0.073	23	-0.075	23	0.04	7	0	23	NC	32	NC	32
2202			min	-0.134	13	-0.315	4	-0.016	21	-0.001	4	NC	1	NC	1
2203		2	max	0.073	23	-0.176	23	0.066	7	0	23	9645.779	23	NC	32
2204			min	-0.134	13	-0.806	4	-0.008	21	-0.001	4	1856.258	4	NC	1
2205		3	max	0.073	23	-0.269	23	0.091	7	0	23	6872.618	32	NC	32
2206			min	-0.134	13	-1.254	4	-0.001	21	-0.002	4	1322.584	5	NC	1
2207		4	max	0.073	23	-0.35	23	0.117	7	-0.001	23	9645.779	22	NC	32
2208			min	-0.134	13	-1.642	4	0.006	21	-0.002	4	1856.258	8	NC	1
2209		5	max	0.073	23	-0.423	23	0.143	7	-0.001	23	NC	32	NC	32
2210			min	-0.134	13	-1.987	4	0.014	21	-0.003	4	NC	1	NC	1
2211	M245	1	max	0.059	23	-0.041	24	0.047	7	-0.001	23	NC	32	NC	32
2212			min	-0.083	13	-0.173	4	-0.009	21	-0.004	4	NC	1	NC	1
2213		2	max	0.059	23	-0.129	23	0.071	7	-0.001	23	NC	32	NC	32
2214			min	-0.083	13	-0.603	4	-0.003	21	-0.005	4	3295.371	6	NC	1
2215		3	max	0.059	23	-0.212	23	0.095	7	-0.001	23	NC	32	NC	32
2216			min	-0.083	13	-1.008	4	0.002	21	-0.006	4	2347.952	6	NC	1
2217		4	max	0.059	23	-0.288	23	0.119	7	-0.002	23	NC	32	NC	32
2218			min	-0.083	13	-1.377	4	0.008	21	-0.007	4	3295.371	6	NC	1
2219		5	max	0.059	23	-0.359	23	0.143	7	-0.002	23	NC	32	NC	32
2220			min	-0.083	13	-1.72	4	0.014	21	-0.008	4	NC	1	NC	1
2221	M246	1	max	0.367	15	-0.253	23	0.09	15	-0.002	21	NC	32	NC	32
2222			min	-0.302	21	-0.903	4	-0.051	21	-0.008	4	NC	1	NC	1
2223		2	max	0.367	15	-0.254	23	0.099	7	-0.002	21	NC	32	NC	32
2224			min	-0.302	21	-0.947	4	-0.035	21	-0.006	4	NC	1	NC	1
2225		3	max	0.367	15	-0.254	23	0.114	7	-0.002	21	NC	32	NC	32
2226			min	-0.302	21	-0.989	4	-0.019	21	-0.005	4	NC	1	NC	1
2227		4	max	0.367	15	-0.254	23	0.129	7	-0.001	21	NC	32	NC	32
2228			min	-0.302	21	-1.027	4	-0.002	21	-0.004	4	NC	1	NC	1
2229		5	max	0.367	15	-0.252	23	0.144	7	-0.001	21	NC	32	NC	32
2230			min	-0.302	21	-1.062	4	0.014	21	-0.002	2	NC	1	NC	1
2231	M247	1	max	0.571	15	-0.341	23	0.127	7	0.001	4	NC	32	NC	32
2232			min	-0.354	21	-1.194	4	-0.061	21	0	23	NC	1	NC	1
2233		2	max	0.571	15	-0.319	23	0.131	7	0.001	4	NC	32	NC	32
2234			min	-0.354	21	-1.149	4	-0.042	21	0	23	NC	1	NC	1
2235		3	max	0.571	15	-0.297	23	0.136	7	0.002	4	NC	32	NC	32
2236			min	-0.354	21	-1.103	4	-0.023	21	0	23	NC	1	NC	1
2237		4	max	0.571	15	-0.275	23	0.14	7	0.003	4	NC	32	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
2238			min	-0.354	21	-1.054	4	-0.005	21	0.001	23	NC	1	NC	1
2239		5	max	0.571	15	-0.252	23	0.144	7	0.004	4	NC	32	NC	32
2240			min	-0.354	21	-1.005	4	0.014	21	0.001	23	NC	1	NC	1
2241	M248	1	max	0.654	7	-0.241	23	0.152	7	0.009	4	NC	32	NC	32
2242			min	-0.209	21	-0.83	4	-0.035	21	0.002	23	NC	1	NC	1
2243		2	max	0.654	7	-0.213	23	0.15	7	0.009	4	NC	32	NC	32
2244			min	-0.209	21	-0.748	4	-0.023	21	0.003	23	NC	1	NC	1
2245		3	max	0.654	7	-0.185	23	0.148	7	0.01	4	NC	32	NC	32
2246			min	-0.209	21	-0.665	4	-0.01	21	0.003	23	NC	1	NC	1
2247		4	max	0.654	7	-0.157	23	0.146	7	0.01	4	NC	32	NC	32
2248			min	-0.209	21	-0.582	4	0.002	21	0.003	23	NC	1	NC	1
2249		5	max	0.654	7	-0.128	23	0.144	7	0.01	4	NC	32	NC	32
2250			min	-0.209	21	-0.497	4	0.014	21	0.003	23	NC	1	NC	1
2251	M249	1	max	0	32	0	32	0	32	0	32	NC	32	NC	32
2252			min	0	1	0	1	0	1	0	1	NC	1	NC	1
2253		2	max	-0.001	21	0.001	23	-0.005	21	0	21	NC	32	NC	32
2254			min	-0.007	7	-0.059	5	-0.044	7	0	7	2560.507	5	4721.382	4
2255		3	max	-0.002	21	0.004	23	-0.007	21	0	21	NC	23	NC	32
2256			min	-0.014	7	-0.096	5	-0.076	7	0	7	1600.317	5	2950.864	4
2257		4	max	-0.003	21	0.012	23	-0.004	21	0	21	NC	23	NC	32
2258			min	-0.021	7	-0.088	5	-0.084	7	0	7	1828.934	5	3372.416	4
2259		5	max	-0.005	21	0.03	15	0.007	21	0	21	NC	32	NC	32
2260			min	-0.028	7	-0.031	17	-0.056	7	0	7	5039.926	23	NC	1
2261	M250	1	max	0.052	23	-0.018	23	0.029	7	0	24	NC	32	NC	32
2262			min	-0.144	5	-0.093	4	-0.016	21	0	6	NC	1	NC	1
2263		2	max	0.053	23	-0.046	23	0.05	7	0	24	7459.246	21	NC	32
2264			min	-0.144	5	-0.231	4	-0.011	21	0	6	1701.459	4	9433.862	5
2265		3	max	0.053	23	-0.083	23	0.078	7	0	24	6527.669	21	NC	32
2266			min	-0.144	5	-0.408	4	-0.004	21	0	6	1485.314	4	8254.629	5
2267		4	max	0.053	23	-0.127	23	0.109	7	0	24	NC	32	NC	32
2268			min	-0.144	5	-0.613	4	0.004	21	0	6	2343.149	4	NC	1
2269		5	max	0.053	23	-0.174	23	0.143	7	0	24	NC	32	NC	32
2270			min	-0.144	5	-0.832	4	0.014	21	0	6	NC	1	NC	1
2271	M251	1	max	0.03	15	0	23	0.048	7	0	23	NC	32	NC	32
2272			min	-0.031	17	-0.001	17	0.002	21	-0.001	5	NC	1	NC	1
2273		2	max	0.03	15	0	21	0.053	7	0	23	2914.242	23	NC	32
2274			min	-0.031	17	-0.009	7	-0.006	21	-0.002	5	553.074	4	6836.58	5
2275		3	max	0.03	15	-0.046	23	0.073	7	0	23	3642.019	21	NC	32
2276			min	-0.031	17	-0.233	4	-0.005	21	-0.001	5	722.659	4	6782.892	7
2277		4	max	0.03	15	-0.136	23	0.105	7	0	23	1233.519	23	NC	32
2278			min	-0.031	17	-0.686	4	0.002	21	-0.001	5	244.884	4	2962.302	7
2279		5	max	0.03	15	-0.249	23	0.143	7	0	23	673.742	23	NC	21
2280			min	-0.031	17	-1.246	4	0.014	21	-0.001	5	134.813	4	1772.744	7
2281	M252	1	max	-0.002	23	-0.023	21	0.016	15	0	24	NC	32	NC	32
2282			min	-0.222	5	-0.099	4	-0.013	21	0	6	NC	1	NC	1
2283		2	max	-0.002	23	-0.082	23	0.031	7	0	24	2012.526	23	NC	32
2284			min	-0.222	5	-0.368	4	-0.01	21	0	6	440.899	4	6484.305	7
2285		3	max	-0.002	23	-0.172	23	0.062	7	0	24	798.432	23	NC	32
2286			min	-0.222	5	-0.779	4	-0.004	21	0	6	174.596	4	2436.427	7
2287		4	max	-0.002	23	-0.28	23	0.1	7	0	24	462.975	23	6995.89	21
2288			min	-0.222	5	-1.274	4	0.004	21	0	6	101.145	4	1361.182	7
2289		5	max	-0.001	23	-0.394	23	0.143	7	0	24	320.043	23	4516.489	21
2290			min	-0.222	5	-1.799	4	0.014	21	0	6	69.864	4	915.018	7
2291	M253	1	max	0.04	19	-0.047	23	0.012	23	0	23	NC	32	NC	32
2292			min	-0.042	13	-0.154	5	-0.014	13	0	5	NC	1	NC	1
2293		2	max	0.04	19	-0.043	23	0.013	23	0	4	NC	32	NC	32
2294			min	-0.042	13	-0.165	5	-0.014	13	0	21	NC	1	NC	1
2295		3	max	0.04	19	-0.04	23	0.013	23	0	4	NC	32	NC	32

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
2296			min	-0.042	13	-0.174	5	-0.015	13	0	21	NC	1	NC	1
2297		4	max	0.04	19	-0.036	23	0.013	23	0	4	NC	32	NC	32
2298			min	-0.042	13	-0.18	5	-0.015	13	0	21	NC	1	NC	1
2299		5	max	0.04	19	-0.032	23	0.013	23	0	4	NC	32	NC	32
2300			min	-0.042	13	-0.185	5	-0.015	13	0	21	NC	1	NC	1
2301	M255	1	max	2.735	7	0.009	23	0.052	13	0	23	NC	32	NC	32
2302			min	0.588	21	-0.023	5	-0.05	19	0	5	NC	1	NC	1
2303		2	max	2.735	7	0.029	7	0.018	21	0	23	5947.585	21	1452.455	21
2304			min	0.588	21	-0.008	21	-0.184	7	0	13	1255.772	7	300.065	7
2305		3	max	2.734	7	0.069	7	-0.016	21	0	7	2934.04	21	710.953	21
2306			min	0.588	21	0	21	-0.35	7	0	21	620.242	7	147.065	7
2307		4	max	2.734	7	0.11	7	-0.054	21	0	7	1913.415	21	457.917	21
2308			min	0.588	21	0.009	21	-0.529	7	0	21	405.273	7	94.915	7
2309		5	max	2.734	7	0.153	7	-0.095	21	0	7	1392.606	21	327.892	21
2310			min	0.588	21	0.018	21	-0.728	7	0	21	295.723	7	68.141	7
2311	M256	1	max	-0.096	21	0.169	7	-0.002	21	0.001	6	NC	32	NC	32
2312			min	-0.726	7	0.019	21	-0.037	7	0	24	NC	1	NC	1
2313		2	max	-0.1	21	-0.133	23	0	21	0	13	9582.544	32	NC	32
2314			min	-0.74	7	-0.561	5	-0.028	7	0	19	6160.207	1	NC	1
2315		3	max	-0.104	21	-0.306	21	0.002	22	0	21	6827.563	32	NC	32
2316			min	-0.754	7	-1.26	7	-0.019	8	-0.001	7	4389.148	1	NC	1
2317		4	max	-0.108	21	-0.448	21	0.004	22	0	21	9582.544	32	NC	32
2318			min	-0.769	7	-1.947	7	-0.01	8	-0.001	7	6160.207	1	NC	1
2319		5	max	-0.113	21	-0.58	21	0.006	14	0	21	NC	32	NC	32
2320			min	-0.783	7	-2.621	7	-0.006	24	-0.002	7	NC	1	NC	1
2321	M254	1	max	0.823	15	1.33	6	0.006	5	0.011	6	NC	32	NC	32
2322			min	-0.41	21	-0.533	24	0	23	-0.003	24	NC	1	NC	1
2323		2	max	0.823	15	1.492	6	0.122	15	0.012	6	NC	32	NC	17
2324			min	-0.41	21	-0.538	24	-0.026	21	-0.003	24	3590.772	15	2040.206	15
2325		3	max	0.823	15	1.645	6	0.129	7	0.013	6	NC	32	7874.729	21
2326			min	-0.411	21	-0.515	24	0.015	21	-0.003	24	2181.486	15	2212.324	4
2327		4	max	0.824	15	1.773	6	0.074	5	0.014	6	NC	32	NC	32
2328			min	-0.411	21	-0.463	24	0.013	23	-0.002	24	2444.312	15	3375.076	13
2329		5	max	0.824	15	1.875	6	0.077	15	0.015	6	NC	32	NC	32
2330			min	-0.412	21	-0.401	24	-0.026	21	-0.002	24	NC	1	NC	1
2331	M257	1	max	0.276	15	0.285	14	0.004	5	0.006	6	NC	32	NC	32
2332			min	-0.11	21	-0.144	24	0	23	-0.003	24	6851.2	23	NC	1
2333		2	max	0.276	15	0.456	14	0.519	7	0.006	6	NC	32	NC	21
2334			min	-0.11	21	-0.277	24	0.007	21	-0.003	24	1121.769	14	371.344	7
2335		3	max	0.276	15	0.693	14	1.421	7	0.006	6	NC	23	1293.411	21
2336			min	-0.11	21	-0.475	24	0.151	21	-0.003	24	469.582	14	135.312	7
2337		4	max	0.276	15	0.961	14	2.497	7	0.006	6	NC	23	540.054	21
2338			min	-0.11	21	-0.704	24	0.358	21	-0.003	24	283.67	14	76.93	7
2339		5	max	0.276	15	1.237	14	3.622	7	0.006	6	NC	23	330.858	21
2340			min	-0.11	21	-0.942	24	0.582	21	-0.003	24	201.409	14	53.015	7
2341	M258	1	max	0.032	15	0.028	14	0.001	5	0.002	14	NC	32	NC	32
2342			min	-0.01	21	-0.016	24	0	23	-0.001	24	NC	1	NC	1
2343		2	max	0.032	15	0.1	14	0.408	7	0.002	14	NC	32	2649.88	21
2344			min	-0.01	21	-0.077	24	0.073	21	-0.001	24	2652.593	14	471.494	7
2345		3	max	0.032	15	0.206	14	1.228	4	0.002	14	NC	32	675.839	21
2346			min	-0.01	21	-0.171	24	0.285	21	-0.001	24	1078.392	14	156.345	4
2347		4	max	0.032	15	0.327	14	2.239	4	0.002	14	NC	32	343.477	21
2348			min	-0.01	21	-0.281	24	0.559	21	-0.001	24	642.505	14	85.746	4
2349		5	max	0.032	15	0.451	14	3.302	4	0.002	14	NC	32	225.457	21
2350			min	-0.01	21	-0.395	24	0.852	21	-0.001	24	452.987	14	58.125	4
2351	M244	1	max	1.875	6	0.412	21	0.077	15	0.002	21	NC	32	NC	32
2352			min	-0.401	24	-0.824	15	-0.026	21	-0.003	15	NC	1	NC	1
2353		2	max	1.403	6	0.983	21	1.839	6	0.002	21	NC	32	7649.483	20

Envelope Member Section Deflections - Strength (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
2354			min	-0.3	24	-1.244	15	-0.04	24	-0.003	15	617.444	13	235.591	6
2355		3	max	0.931	6	1.25	21	2.824	6	0.002	21	NC	32	NC	24
2356			min	-0.198	24	-1.405	15	0.035	24	-0.003	15	405.662	13	151.775	6
2357		4	max	0.459	6	0.909	21	2.131	6	0.001	21	NC	32	8123.332	24
2358			min	-0.097	24	-0.987	15	0.066	24	-0.003	15	546.432	13	202.566	6
2359		5	max	0.005	23	0.072	21	0.063	7	0.001	21	NC	32	NC	32
2360			min	-0.013	5	-0.089	15	0.004	21	-0.003	15	NC	1	NC	1
2361	M242	1	max	0.051	19	0	23	0.006	13	0	21	NC	32	NC	32
2362			min	-0.054	13	-0.042	5	-0.006	15	-0.001	7	NC	1	NC	1
2363		2	max	0.051	19	-0.375	23	0.004	24	-0.001	21	1111.759	22	NC	32
2364			min	-0.054	13	-2.119	5	-0.004	14	-0.005	7	197.06	5	NC	1
2365		3	max	0.051	19	-0.538	23	0.004	24	-0.002	21	792.128	22	NC	32
2366			min	-0.054	13	-3.004	5	-0.005	14	-0.009	7	140.405	7	NC	1
2367		4	max	0.051	19	-0.415	23	0.005	24	-0.003	21	1111.759	24	NC	32
2368			min	-0.054	13	-2.276	5	-0.005	14	-0.013	7	197.06	6	NC	1
2369		5	max	0.051	19	-0.08	21	0.005	24	-0.004	21	NC	32	NC	32
2370			min	-0.054	13	-0.355	7	-0.005	14	-0.017	7	NC	1	NC	1

Envelope Beam Deflections

	Member Label	Span		Location [ft]	y' [in]	(n) L'/y' Ratio	LC
1	F1_G19	1	max	0.209	-0.002	NC	23
2		1	min	10.038	-0.579	416	5
3	F1_G20	1	max	0.218	-0.001	NC	21
4		1	min	10.449	-0.061	4112	4
5	F1_G32	1	max	13.679	-0.001	NC	17
6		1	min	6.498	-0.026	7442	7
7		2	max	19.151	-0.001	NC	17
8		2	min	26.332	-0.026	7474	7
9	F1_G158	1	max	11.198	0.001	NC	1
10		1	min	0	0	NC	1
11		2	max	13.802	0.001	NC	1
12		2	min	12.76	0	NC	1
13	F1_G1	1	max	34.004	-0.011	NC	21
14		1	min	15.978	-1.518	271	7
15		2	max	34.414	0.003	NC	23
16		2	min	39.33	0.38	315	5
17	F1_G3	1	max	4.688	0.008	NC	21
18		1	min	0	0.27	444	7
19		2	max	39.844	-0.005	NC	23
20		2	min	22.5	-1.536	273	4
21		3	max	40.312	0.008	NC	23
22		3	min	45	0.27	444	5
23	F1_G5	1	max	4.916	0.003	NC	21
24		1	min	0	0.38	315	7
25		2	max	5.326	-0.012	NC	21
26		2	min	23.352	-1.518	271	7
27	F1_G6	1	max	34.004	-0.011	NC	23
28		1	min	15.978	-1.518	271	5
29		2	max	34.414	0.003	NC	21
30		2	min	39.33	0.38	315	7
31	F1_G8	1	max	4.688	0.008	NC	23
32		1	min	0	0.27	444	5
33		2	max	39.844	-0.005	NC	23
34		2	min	22.5	-1.536	273	5
35		3	max	40.312	0.008	NC	23
36		3	min	45	0.27	444	5
37	F1_G10	1	max	4.916	0.003	NC	21
38		1	min	0	0.38	315	7

Envelope Beam Deflections (Continued)

	Member Label	Span		Location [ft]	y' [in]	(n) L'/y' Ratio	LC
39		2	max	5.326	-0.012	NC	23
40		2	min	23.352	-1.518	271	7
41	F1_G11	1	max	2.448	-0.001	NC	21
42		1	min	0	0	NC	1
43	F1_G12	1	max	0.167	-0.001	NC	21
44		1	min	8.04	-0.14	1374	6
45	F1_G13	1	max	17.813	-0.002	NC	21
46		1	min	9	-0.234	923	5
47	F1_G14	1	max	3.5	0	NC	32
48		1	min	0	0	NC	1
49	F1_G17	1	max	0.247	-0.004	NC	21
50		1	min	12.096	-1.047	271	7
51	F1_G18	1	max	0.208	-0.002	NC	21
52		1	min	10.606	-0.397	603	7
53	F1_G21	1	max	0.504	-0.013	NC	21
54		1	min	25.707	-2.014	288	7
55	F1_G22	1	max	25.39	-0.004	NC	21
56		1	min	13.231	-1.018	303	7
57		2	max	33.972	-0.001	NC	21
58		2	min	28.966	-0.06	1725	7
59	F1_G23	1	max	0.334	-0.009	NC	21
60		1	min	16.369	-1.428	269	7
61	F1_G24	1	max	0.178	-0.003	NC	21
62		1	min	8.545	-0.589	348	8
63	F1_G25	1	max	0.142	-0.001	NC	19
64		1	min	6.81	-0.231	708	5
65	F1_G26	1	max	0.297	-0.001	NC	1
66		1	min	4.755	-0.057	2017	7
67	F1_G29	1	max	0.256	-0.002	NC	21
68		1	min	12.266	-0.333	884	5
69	F1_G31	1	max	41.562	-0.014	NC	23
70		1	min	19.25	-2.042	246	5
71	F1_G33	1	max	0.288	-0.01	NC	21
72		1	min	13.83	-1.323	251	7
73	F1_G34	1	max	8.399	-0.001	NC	1
74		1	min	5.148	-0.021	4954	5
75	F1_G35	1	max	0.161	-0.001	NC	1
76		1	min	7.75	-0.089	2080	4
77	F1_G37	1	max	35.952	-0.017	NC	21
78		1	min	18.165	-2.332	187	7
79	F1_G38	1	max	0.378	-0.017	NC	21
80		1	min	18.165	-2.387	182	7
81	F1_G39	1	max	0.342	-0.013	NC	23
82		1	min	16.415	-1.778	221	7
83	F1_G40	1	max	0.347	-0.014	NC	23
84		1	min	16.665	-1.91	209	5
85	F1_G41	1	max	0.342	-0.013	NC	32
86		1	min	16.415	-1.778	221	4
87	F1_G42	1	max	24.74	-0.011	NC	23
88		1	min	12.5	-0.97	309	7
89	F1_G43	1	max	0.26	-0.011	NC	21
90		1	min	12.5	-0.97	309	5
91	F1_G44	1	max	24.74	-0.011	NC	21
92		1	min	12.5	-0.97	309	5
93	F1_G45	1	max	0.26	-0.011	NC	23
94		1	min	12.5	-0.97	309	5
95	F1_G46	1	max	0.342	-0.022	NC	32
96		1	min	16.415	-1.986	198	6

Envelope Beam Deflections (Continued)

	Member Label	Span		Location [ft]	y' [in]	(n) L'/y' Ratio	LC
97	F1_G47	1	max	32.983	-0.024	NC	23
98		1	min	16.665	-2.11	189	7
99	F1_G48	1	max	0.342	-0.022	NC	24
100		1	min	16.415	-1.986	198	7
101	F1_G49	1	max	0.342	-0.022	NC	22
102		1	min	16.415	-2.004	196	8
103	F1_G50	1	max	0.347	-0.024	NC	32
104		1	min	16.665	-2.129	188	5
105	F1_G51	1	max	0.342	-0.022	NC	24
106		1	min	16.415	-2.004	196	4
107	F1_G52	1	max	0.342	-0.022	NC	23
108		1	min	16.415	-2.004	196	4
109	F1_G53	1	max	0.347	-0.024	NC	32
110		1	min	16.665	-2.129	188	4
111	F1_G54	1	max	0.342	-0.022	NC	32
112		1	min	16.415	-2.004	196	6
113	F1_G55	1	max	0.342	-0.022	NC	32
114		1	min	16.415	-1.986	198	7
115	F1_G56	1	max	32.983	-0.024	NC	21
116		1	min	16.665	-2.11	189	8
117	F1_G57	1	max	0.342	-0.022	NC	32
118		1	min	16.415	-1.986	198	7
119	F1_J54	1	max	0.342	-0.022	NC	32
120		1	min	16.415	-1.968	200	4
121	F1_J55	1	max	0.342	-0.022	NC	32
122		1	min	16.415	-1.968	200	4
123	F1_J56	1	max	0.342	-0.022	NC	32
124		1	min	16.415	-1.968	200	4
125	F1_J57	1	max	0.342	-0.022	NC	32
126		1	min	16.415	-1.968	200	8
127	F1_J58	1	max	0.342	-0.022	NC	32
128		1	min	16.415	-1.968	200	7
129	F1_J59	1	max	0.342	-0.022	NC	32
130		1	min	16.415	-1.968	200	5
131	F1_J60	1	max	0.342	-0.022	NC	24
132		1	min	16.415	-2.004	196	4
133	F1_J61	1	max	0.342	-0.022	NC	24
134		1	min	16.415	-2.004	196	4
135	F1_J62	1	max	0.342	-0.022	NC	24
136		1	min	16.415	-2.004	196	5
137	F1_J63	1	max	0.342	-0.022	NC	23
138		1	min	16.415	-2.004	196	5
139	F1_J64	1	max	32.488	-0.022	NC	23
140		1	min	16.415	-2.004	196	5
141	F1_J65	1	max	0.342	-0.022	NC	32
142		1	min	16.415	-2.004	196	4
143	F1_J66	1	max	0.342	-0.022	NC	32
144		1	min	16.415	-2.004	196	8
145	F1_J67	1	max	0.342	-0.022	NC	32
146		1	min	16.415	-2.004	196	7
147	F1_J68	1	max	0.342	-0.022	NC	32
148		1	min	16.415	-2.004	196	7
149	F1_J69	1	max	0.342	-0.022	NC	21
150		1	min	16.415	-2.004	196	6
151	F1_J70	1	max	0.342	-0.022	NC	32
152		1	min	16.415	-2.004	196	6
153	F1_J71	1	max	0.342	-0.022	NC	23
154		1	min	16.415	-2.004	196	5

Envelope Beam Deflections (Continued)

	Member Label	Span		Location [ft]	y' [in]	(n) L'/y' Ratio	LC
155	F1_J72	1	max	0.342	-0.022	NC	23
156		1	min	16.415	-2.004	196	4
157	F1_J73	1	max	0.342	-0.022	NC	24
158		1	min	16.415	-2.004	196	4
159	F1_J74	1	max	0.342	-0.022	NC	23
160		1	min	16.415	-2.004	196	4
161	F1_J75	1	max	0.342	-0.022	NC	32
162		1	min	16.415	-2.004	196	4
163	F1_J76	1	max	0.342	-0.022	NC	23
164		1	min	16.415	-2.004	196	5
165	F1_J77	1	max	0.342	-0.022	NC	32
166		1	min	16.415	-2.004	196	4
167	F1_J78	1	max	0.342	-0.022	NC	32
168		1	min	16.415	-1.968	200	8
169	F1_J79	1	max	0.342	-0.022	NC	32
170		1	min	16.415	-1.968	200	8
171	F1_J80	1	max	0.342	-0.022	NC	32
172		1	min	16.415	-1.968	200	7
173	F1_J81	1	max	0.342	-0.022	NC	32
174		1	min	16.415	-1.968	200	4
175	F1_J82	1	max	0.342	-0.022	NC	32
176		1	min	16.415	-1.968	200	6
177	F1_J83	1	max	0.342	-0.022	NC	24
178		1	min	16.415	-1.968	200	4
179	F1_J84	1	max	32.983	-0.023	NC	21
180		1	min	16.665	-2.091	191	4
181	F1_J85	1	max	32.983	-0.023	NC	23
182		1	min	16.665	-2.091	191	4
183	F1_J86	1	max	32.983	-0.023	NC	23
184		1	min	16.665	-2.091	191	5
185	F1_J87	1	max	32.983	-0.023	NC	23
186		1	min	16.665	-2.091	191	4
187	F1_J88	1	max	32.983	-0.023	NC	23
188		1	min	16.665	-2.091	191	4
189	F1_J89	1	max	32.983	-0.023	NC	32
190		1	min	16.665	-2.091	191	4
191	F1_J90	1	max	0.347	-0.024	NC	22
192		1	min	16.665	-2.129	188	6
193	F1_J91	1	max	0.347	-0.024	NC	23
194		1	min	16.665	-2.129	188	5
195	F1_J92	1	max	0.347	-0.024	NC	32
196		1	min	16.665	-2.129	188	6
197	F1_J93	1	max	0.347	-0.024	NC	32
198		1	min	16.665	-2.129	188	5
199	F1_J94	1	max	0.347	-0.024	NC	32
200		1	min	16.665	-2.129	188	4
201	F1_J95	1	max	0.347	-0.024	NC	24
202		1	min	16.665	-2.129	188	5
203	F1_J96	1	max	0.347	-0.024	NC	24
204		1	min	16.665	-2.129	188	4
205	F1_J97	1	max	0.347	-0.024	NC	32
206		1	min	16.665	-2.129	188	4
207	F1_J98	1	max	0.347	-0.024	NC	21
208		1	min	16.665	-2.129	188	8
209	F1_J99	1	max	0.347	-0.024	NC	21
210		1	min	16.665	-2.129	188	8
211	F1_J100	1	max	0.347	-0.024	NC	32
212		1	min	16.665	-2.129	188	4

Envelope Beam Deflections (Continued)

	Member Label	Span		Location [ft]	y' [in]	(n) L'/y' Ratio	LC
213	F1_J101	1	max	32.983	-0.024	NC	23
214		1	min	16.665	-2.129	188	6
215	F1_J102	1	max	0.347	-0.024	NC	32
216		1	min	16.665	-2.129	188	5
217	F1_J103	1	max	0.347	-0.024	NC	24
218		1	min	16.665	-2.129	188	6
219	F1_J104	1	max	0.347	-0.024	NC	32
220		1	min	16.665	-2.129	188	5
221	F1_J105	1	max	0.347	-0.024	NC	32
222		1	min	16.665	-2.129	188	6
223	F1_J106	1	max	0.347	-0.024	NC	32
224		1	min	16.665	-2.129	188	4
225	F1_J107	1	max	0.347	-0.024	NC	21
226		1	min	16.665	-2.129	188	6
227	F1_J108	1	max	32.983	-0.023	NC	23
228		1	min	16.665	-2.091	191	4
229	F1_J109	1	max	32.983	-0.023	NC	23
230		1	min	16.665	-2.091	191	4
231	F1_J110	1	max	32.983	-0.023	NC	22
232		1	min	16.665	-2.091	191	5
233	F1_J111	1	max	32.983	-0.023	NC	32
234		1	min	16.665	-2.091	191	4
235	F1_J112	1	max	32.983	-0.023	NC	32
236		1	min	16.665	-2.091	191	4
237	F1_J113	1	max	32.983	-0.023	NC	21
238		1	min	16.665	-2.091	191	4
239	F1_J114	1	max	0.342	-0.022	NC	22
240		1	min	16.415	-1.968	200	6
241	F1_J115	1	max	0.342	-0.022	NC	24
242		1	min	16.415	-1.968	200	8
243	F1_J116	1	max	0.342	-0.022	NC	23
244		1	min	16.415	-1.968	200	5
245	F1_J117	1	max	0.342	-0.022	NC	32
246		1	min	16.415	-1.968	200	4
247	F1_J118	1	max	0.342	-0.022	NC	23
248		1	min	16.415	-1.968	200	4
249	F1_J119	1	max	0.342	-0.022	NC	24
250		1	min	16.415	-1.968	200	8
251	F1_J120	1	max	0.342	-0.022	NC	23
252		1	min	16.415	-2.004	196	7
253	F1_J121	1	max	0.342	-0.022	NC	21
254		1	min	16.415	-2.004	196	7
255	F1_J122	1	max	0.342	-0.022	NC	32
256		1	min	16.415	-2.004	196	4
257	F1_J123	1	max	0.342	-0.022	NC	24
258		1	min	16.415	-2.004	196	5
259	F1_J124	1	max	0.342	-0.022	NC	22
260		1	min	16.415	-2.004	196	7
261	F1_J125	1	max	0.342	-0.022	NC	32
262		1	min	16.415	-2.004	196	4
263	F1_J126	1	max	0.342	-0.022	NC	24
264		1	min	16.415	-2.004	196	4
265	F1_J127	1	max	0.342	-0.022	NC	32
266		1	min	16.415	-2.004	196	4
267	F1_J128	1	max	0.342	-0.022	NC	24
268		1	min	16.415	-2.004	196	8
269	F1_J129	1	max	0.342	-0.022	NC	32
270		1	min	16.415	-2.004	196	6

Envelope Beam Deflections (Continued)

	Member Label	Span		Location [ft]	y' [in]	(n) L'/y' Ratio	LC
271	F1_J130	1	max	0.342	-0.022	NC	23
272		1	min	16.415	-2.004	196	4
273	F1_J131	1	max	0.342	-0.022	NC	24
274		1	min	16.415	-2.004	196	6
275	F1_J132	1	max	0.342	-0.022	NC	32
276		1	min	16.415	-2.004	196	6
277	F1_J133	1	max	0.342	-0.022	NC	32
278		1	min	16.415	-2.004	196	7
279	F1_J134	1	max	0.342	-0.022	NC	24
280		1	min	16.415	-2.004	196	5
281	F1_J135	1	max	0.342	-0.022	NC	32
282		1	min	16.415	-2.004	196	6
283	F1_J136	1	max	0.342	-0.022	NC	32
284		1	min	16.415	-2.004	196	4
285	F1_J137	1	max	0.342	-0.022	NC	22
286		1	min	16.415	-2.004	196	8
287	F1_J138	1	max	0.342	-0.022	NC	24
288		1	min	16.415	-1.968	200	4
289	F1_J139	1	max	0.342	-0.022	NC	32
290		1	min	16.415	-1.968	200	4
291	F1_J140	1	max	0.342	-0.022	NC	32
292		1	min	16.415	-1.968	200	4
293	F1_J141	1	max	32.488	-0.022	NC	32
294		1	min	16.415	-1.968	200	6
295	F1_J142	1	max	0.342	-0.022	NC	32
296		1	min	16.415	-1.968	200	4
297	F1_J143	1	max	0.342	-0.022	NC	32
298		1	min	16.415	-1.968	200	8
299	F1_J148	1	max	0.227	-0.001	NC	20
300		1	min	5.44	-0.096	1361	4
301	F1_J149	1	max	0.255	-0.001	NC	32
302		1	min	6.125	-0.154	953	6
303	F1_J150	1	max	0.152	-0.001	NC	28
304		1	min	7.294	-0.297	589	4
305	F1_J151	1	max	0.192	-0.003	NC	32
306		1	min	9.233	-0.797	278	6
307	F1_J152	1	max	0.207	-0.004	NC	32
308		1	min	9.922	-1.045	227	4
309	F1_J153	1	max	0.342	-0.013	NC	24
310		1	min	16.415	-1.827	215	8
311	F1_J154	1	max	0.342	-0.012	NC	32
312		1	min	16.415	-1.698	232	5
313	F1_J155	1	max	32.983	-0.014	NC	24
314		1	min	16.665	-1.94	206	4
315	F1_J156	1	max	32.983	-0.014	NC	32
316		1	min	16.665	-1.94	206	8
317	F1_J157	1	max	0.342	-0.013	NC	24
318		1	min	16.415	-1.827	215	4
319	F1_J158	1	max	0.342	-0.013	NC	32
320		1	min	16.415	-1.827	215	6
321	F1_G159	1	max	0.781	-0.001	NC	23
322		1	min	4.165	-0.017	5873	8
323	F1_G154	1	max	0.19	-0.002	NC	23
324		1	min	9.139	-0.302	726	5
325	F1_G155	1	max	1.255	-0.001	NC	32
326		1	min	3.5	-0.014	5459	5
327	F1_G157	1	max	7.18	-0.001	NC	32
328		1	min	3.962	-0.028	3443	4

Envelope Beam Deflections (Continued)

	Member Label	Span		Location [ft]	y' [in]	(n) L'/y' Ratio	LC
329	F1_G160	1	max	5.87	-0.001	NC	7
330		1	min	0	0	NC	1
331	M193	1	max	23.235	-0.011	NC	21
332		1	min	11.495	-1.192	236	4
333	M194	1	max	0.208	-0.005	NC	23
334		1	min	9.98	-0.474	505	4
335	M196	1	max	0.209	-0.005	NC	32
336		1	min	10.038	-0.482	499	4
337	M197	1	max	0.19	-0.005	NC	23
338		1	min	9.33	-0.617	355	4
339	M198	1	max	0.225	0.001	NC	19
340		1	min	5.502	0.062	1853	4
341		2	max	9.657	-0.001	NC	23
342		2	min	10.78	-0.071	429	4
343	M199	1	max	3.886	0.001	NC	21
344		1	min	0	-0.366	258	4
345		2	max	17.582	0.001	NC	23
346		2	min	9.068	0.184	903	7
347	M200	1	max	0.95	-0.001	NC	24
348		1	min	1.25	-0.004	7845	4
349	M201	1	max	1.25	0	NC	32
350		1	min	0	0	NC	1
351	M212	1	max	1.25	0	NC	32
352		1	min	0	0	NC	1
353	M216	1	max	16.206	-0.001	NC	18
354		1	min	7.304	-0.271	723	4
355		2	max	20.771	0.001	NC	22
356		2	min	18.717	0.007	9873	4
357	M220	1	max	3.196	0.001	NC	7
358		1	min	0	0	NC	1
359		2	max	6.163	-0.001	NC	19
360		2	min	13.923	-0.048	4064	5
361	M225	1	max	1.977	0.001	NC	32
362		1	min	9.166	0.066	2915	15
363		2	max	16.534	-0.001	NC	5
364		2	min	16.534	-0.002	8580	13
365	M226	1	max	0.899	-0.001	NC	1
366		1	min	9.345	0.078	2465	15
367		2	max	16.534	-0.001	NC	17
368		2	min	16.175	0	NC	1
369	M227	1	max	32.085	-0.001	NC	18
370		1	min	18.23	1.076	390	13
371	M228	1	max	33.908	0.001	NC	3
372		1	min	18.595	0.956	439	13
373	M230	1	max	0.158	0.001	NC	19
374		1	min	3.642	0.045	1673	4
375		2	max	7.521	0.001	NC	6
376		2	min	6.967	0.005	3191	4
377	M217	1	max	1.27	0	NC	32
378		1	min	0	0	NC	1
379	M219	1	max	1.26	0	NC	32
380		1	min	0	0	NC	1
381	M233	1	max	15.912	-0.003	NC	23
382		1	min	8.04	-0.464	415	4
383	M234	1	max	16.159	-0.001	NC	3
384		1	min	8.164	-0.17	1151	4
385	M235	1	max	0.188	-0.004	NC	23
386		1	min	9.188	-0.533	405	4

Envelope Beam Deflections (Continued)

	Member Label	Span		Location [ft]	y' [in]	(n) L'/y' Ratio	LC
387	M236	1	max	0.236	-0.006	NC	21
388		1	min	11.566	-0.767	354	4
389	M237	1	max	6.889	-0.001	NC	21
390		1	min	3.758	-0.02	4515	6
391	M238	1	max	7.964	-0.001	NC	28
392		1	min	4.155	-0.03	3339	5
393	M239	1	max	8.726	-0.001	NC	32
394		1	min	4.553	-0.043	2538	4
395	M240	1	max	10.387	-0.001	NC	24
396		1	min	5.304	-0.079	1605	4
397	M241	1	max	11.198	-0.001	NC	1
398		1	min	5.658	-0.103	1322	5
399	M245	1	max	11.898	-0.001	NC	16
400		1	min	6.012	-0.061	2348	6
401	M246	1	max	1.609	-0.001	NC	32
402		1	min	0	0	NC	1
403	M247	1	max	3.639	-0.001	NC	16
404		1	min	0	0	NC	1
405	M248	1	max	1.163	-0.001	NC	8
406		1	min	0	0	NC	1
407	M250	1	max	6.65	0.001	NC	2
408		1	min	2.87	0.056	1449	4
409	M251	1	max	1.167	0	NC	32
410		1	min	0	0	NC	1
411		2	max	1.604	0.001	NC	11
412		2	min	2.917	0.015	2324	5
413		3	max	4.375	-0.001	NC	21
414		3	min	14	-1.154	202	4
415	M252	1	max	0.413	-0.001	NC	11
416		1	min	9.9	-1.008	235	4
417	M253	1	max	3.946	-0.001	NC	13
418		1	min	0	0	NC	1
419	M254	1	max	0.18	0.001	NC	6
420		1	min	10.064	0.098	2110	15
421	M257	1	max	0.5	-0.001	NC	16
422		1	min	15.988	-0.468	820	16
423	M258	1	max	1.166	-0.001	NC	12
424		1	min	15.988	-0.234	1640	16
425	M244	1	max	0.365	-0.001	NC	18
426		1	min	18.23	1.038	404	13
427	M242	1	max	0.342	-0.017	NC	32
428		1	min	16.415	-2.806	140	7

Envelope Beam Deflection Checks

No Data to Print...

Envelope AISC 15TH (360-16): LRFD Member Steel Code Checks

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn
1	F1_G19	W16X40	0.363	7.947	8	0.133	20.076	y	7	112.495	531	47.625	273.75	1	H1-1b
2	F1_G20	W16X40	0.094	15.891	21	0.013	20.898	y	4	103.819	531	47.625	273.75	1	H1-1b*
3	F1_G32	W16X40	0.303	16.415	5	0.041	16.415	y	5	42.066	531	47.625	85.464	1.422	H1-1b
4	F1_G158	W16X40	0.277	12.76	15	0.036	12.5	y	5	72.543	531	47.625	142.838	1.658	H1-1a
5	(B-6)_L1	HSS6X6X6	0.51	0	5	0	16	z	13	194.987	313.812	54.51	54.51	1.667	H1-1a
6	(D-7)_L1	HSS6X6X6	0.112	0	7	0	16	z	13	194.987	313.812	54.51	54.51	1.667	H1-1b*
7	(B-7)_L1	HSS6X6X6	0.403	0	7	0	16	y	13	194.987	313.812	54.51	54.51	1.667	H1-1a*
8	C16_L1	HSS6X6X6	0.264	0	7	0	16	y	13	194.987	313.812	54.51	54.51	1.598	H1-1a
9	C17_L1	HSS12X8X6	0.224	12	4	0.015	12	y	4	432.547	546.48	130.211	182.85	1.364	H1-1b

Envelope AISC 15TH (360-16): LRFD Member Steel Code Checks (Continued)

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn
10	C18_L1	HSS12X8X6	0.191	12	5	0.027	12	y	15	432.547	546.48	130.211	182.85	1.364	H1-1b
11	(N-6)_L1	HSS6X6X6	0.028	0	7	0	16	y	13	194.987	313.812	54.51	54.51	1.667	H1-1b*
12	M12	HSS3X3X6	0.068	0	23	0.005	26.319	y	7	8.561	152.55	12.188	12.188	1.136	H1-1b*
13	M13	HSS3X3X6	0.059	0	21	0.005	26.319	y	13	8.561	152.55	12.188	12.188	1.136	H1-1b*
14	M14	HSS3X3X6	0	25.672	32	0	25.672	y	32	8.998	109.836	8.775	8.775	1	H1-1a
15	M15	HSS3X3X6	0.003	25.672	22	0.007	25.672	y	21	8.998	109.836	8.775	8.775	1.136	H1-1b*
16	M16	HSS6X6X6	0.277	10.986	15	0.004	22.926	y	1	117.898	313.812	54.51	54.51	1.136	H1-1a
17	M17	HSS6X6X6	0.288	11.937	13	0.004	22.919	y	1	117.971	313.812	54.51	54.51	1.136	H1-1a
18	M18	HSS6X6X6	0.235	9.517	13	0.003	20.304	y	1	145.837	313.812	54.51	54.51	1.136	H1-1a
19	M19	HSS6X6X6	0.227	10.786	15	0.003	20.304	y	1	145.837	313.812	54.51	54.51	1.136	H1-1a
20	F1_G1	W21X50	0.538	14.749	7	0.141	34.004	y	5	25.254	661.5	45.75	412.5	1	H1-1b
21	F1_G3	W18X40	0.501	22.5	5	0.174	39.844	y	5	14.797	531	37.5	294	1	H1-1b
22	F1_G5	W21X50	0.538	24.581	7	0.141	5.326	y	5	25.254	661.5	45.75	412.5	1	H1-1b
23	F1_G6	W21X50	0.538	14.749	7	0.141	34.004	y	5	25.254	661.5	45.75	412.5	1	H1-1b
24	F1_G8	W18X40	0.501	22.5	5	0.175	39.844	y	5	14.797	531	37.5	294	1	H1-1b
25	F1_G10	W21X50	0.538	24.581	7	0.141	5.326	y	5	25.254	661.5	45.75	412.5	1	H1-1b
26	F1_G11	W14X22	0.03	4.062	7	0.043	5	y	7	210.778	292.05	16.462	124.5	1	H1-1b
27	F1_G12	W18X35	0.176	8.04	5	0.066	16.08	y	4	92.832	463.5	30.225	249.375	1	H1-1b
28	F1_G13	W18X35	0.242	9	5	0.068	0	y	7	74.084	463.5	30.225	249.375	1	H1-1b
29	F1_G14	W12X19	0.018	1.75	7	0.025	3.5	y	5	196.601	250.65	11.175	92.625	1	H1-1b
30	F1_G17	W16X26	0.531	13.578	8	0.141	23.699	y	5	26.787	345.6	20.55	165.75	1	H1-1b
31	F1_G18	W24X76	0.487	11.23	7	0.161	19.964	y	5	324.744	1008	107.25	750	1	H1-1b
32	F1_G21	W27X146	0.493	32.764	7	0.13	48.39	y	7	296.807	1944	366.375	1740	1	H1-1b
33	F1_G22	W21X44	0.58	15.377	7	0.134	25.747	y	5	27.555	585	38.215	357.75	1	H1-1b
34	F1_G23	W24X68	0.616	16.703	8	0.152	32.07	y	7	107.387	904.5	91.875	663.75	1	H1-1b
35	F1_G24	W12X19	0.488	8.545	5	0.116	17.09	y	5	20.197	250.65	11.175	92.625	1	H1-1b
36	F1_G25	W12X19	0.281	6.81	8	0.094	13.62	y	7	31.799	250.65	11.175	92.625	1	H1-1b
37	F1_G26	W12X19	0.142	4.755	8	0.065	9.51	y	7	65.224	250.65	11.175	92.625	1	H1-1b
38	F1_G29	W16X31	0.165	12.777	5	0.045	24.533	y	7	32.323	410.85	26.363	202.5	1	H1-1b
39	F1_G31	W24X76	0.58	8.75	5	0.168	0	y	5	73.372	1008	107.25	750	1	H1-1b
40	F1_G33	W18X40	0.554	13.83	8	0.107	27.66	y	5	39.166	531	37.5	294	1	H1-1b
41	F1_G34	W16X26	0.097	7.496	5	0.129	8.67	y	5	175.093	345.6	20.55	165.75	1	H1-1b
42	F1_G35	W16X26	0.118	7.75	5	0.044	15.5	y	5	62.623	345.6	20.55	165.75	1	H1-1b
43	F1_G37	W24X76	0.813	17.787	6	0.17	0	y	7	98.062	1008	107.25	750	1	H1-1b
44	F1_G38	W24X76	0.829	18.543	6	0.212	36.33	y	5	98.062	1008	107.25	750	1	H1-1b
45	F1_G39	W18X35	0.552	16.415	8	0.106	32.83	y	5	22.27	463.5	30.225	249.375	1	H1-1b
46	F1_G40	W18X35	0.569	16.665	5	0.104	33.33	y	5	21.607	463.5	30.225	249.375	1	H1-1b
47	F1_G41	W18X35	0.552	16.415	8	0.107	32.83	y	7	22.27	463.5	30.225	249.375	1	H1-1b
48	F1_G42	W18X40	0.501	12.5	7	0.117	0	y	5	47.944	531	37.5	294	1	H1-1b
49	F1_G43	W18X40	0.501	12.5	7	0.117	25	y	5	47.944	531	37.5	294	1	H1-1b
50	F1_G44	W18X40	0.501	12.5	5	0.117	0	y	5	47.944	531	37.5	294	1	H1-1b
51	F1_G45	W18X40	0.501	12.5	5	0.117	25	y	5	47.944	531	37.5	294	1	H1-1b
52	F1_G46	W12X19	0.417	16.415	8	0.056	32.83	y	5	5.473	250.65	11.175	92.625	1	H1-1b
53	F1_G47	W12X19	0.429	16.665	8	0.056	33.33	y	5	5.31	250.65	11.175	92.625	1	H1-1b
54	F1_G48	W12X19	0.417	16.415	8	0.056	32.83	y	7	5.473	250.65	11.175	92.625	1	H1-1b
55	F1_G49	W12X19	0.42	16.415	8	0.056	32.83	y	5	5.473	250.65	11.175	92.625	1	H1-1b
56	F1_G50	W12X19	0.433	16.665	8	0.056	33.33	y	7	5.31	250.65	11.175	92.625	1	H1-1b
57	F1_G51	W12X19	0.42	16.415	8	0.056	32.83	y	7	5.473	250.65	11.175	92.625	1	H1-1b
58	F1_G52	W12X19	0.42	16.415	8	0.057	32.83	y	7	5.473	250.65	11.175	92.625	1	H1-1b
59	F1_G53	W12X19	0.433	16.665	8	0.056	33.33	y	7	5.31	250.65	11.175	92.625	1	H1-1b
60	F1_G54	W12X19	0.42	16.415	8	0.056	32.83	y	5	5.473	250.65	11.175	92.625	1	H1-1b
61	F1_G55	W12X19	0.417	16.415	8	0.057	32.83	y	8	5.473	250.65	11.175	92.625	1	H1-1b
62	F1_G56	W12X19	0.429	16.665	8	0.056	33.33	y	5	5.31	250.65	11.175	92.625	1	H1-1b
63	F1_G57	W12X19	0.417	16.415	8	0.056	32.83	y	7	5.473	250.65	11.175	92.625	1	H1-1b
64	F1_J54	W12X19	0.413	16.415	8	0.056	32.83	y	5	5.473	250.65	11.175	92.625	1	H1-1b
65	F1_J55	W12X19	0.413	16.415	8	0.055	32.83	y	5	5.473	250.65	11.175	92.625	1	H1-1b
66	F1_J56	W12X19	0.413	16.415	8	0.054	32.83	y	5	5.473	250.65	11.175	92.625	1	H1-1b
67	F1_J57	W12X19	0.413	16.415	8	0.055	32.83	y	7	5.473	250.65	11.175	92.625	1	H1-1b

Envelope AISC 15TH (360-16): LRFD Member Steel Code Checks (Continued)

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn
68	F1_J58	W12X19	0.413	16.415	8	0.055	32.83	y	7	5.473	250.65	11.175	92.625	1	H1-1b
69	F1_J59	W12X19	0.413	16.415	8	0.055	32.83	y	7	5.473	250.65	11.175	92.625	1	H1-1b
70	F1_J60	W12X19	0.42	16.415	8	0.056	32.83	y	7	5.473	250.65	11.175	92.625	1	H1-1b
71	F1_J61	W12X19	0.42	16.415	8	0.056	32.83	y	7	5.473	250.65	11.175	92.625	1	H1-1b
72	F1_J62	W12X19	0.42	16.415	8	0.056	32.83	y	7	5.473	250.65	11.175	92.625	1	H1-1b
73	F1_J63	W12X19	0.42	16.415	8	0.055	32.83	y	5	5.473	250.65	11.175	92.625	1	H1-1b
74	F1_J64	W12X19	0.42	16.415	8	0.056	32.83	y	5	5.473	250.65	11.175	92.625	1	H1-1b
75	F1_J65	W12X19	0.42	16.415	8	0.056	32.83	y	7	5.473	250.65	11.175	92.625	1	H1-1b
76	F1_J66	W12X19	0.42	16.415	8	0.056	32.83	y	7	5.473	250.65	11.175	92.625	1	H1-1b
77	F1_J67	W12X19	0.42	16.415	8	0.056	32.83	y	5	5.473	250.65	11.175	92.625	1	H1-1b
78	F1_J68	W12X19	0.42	16.415	8	0.056	32.83	y	5	5.473	250.65	11.175	92.625	1	H1-1b
79	F1_J69	W12X19	0.42	16.415	8	0.056	32.83	y	7	5.473	250.65	11.175	92.625	1	H1-1b
80	F1_J70	W12X19	0.42	16.415	8	0.056	32.83	y	6	5.473	250.65	11.175	92.625	1	H1-1b
81	F1_J71	W12X19	0.42	16.415	8	0.056	32.83	y	5	5.473	250.65	11.175	92.625	1	H1-1b
82	F1_J72	W12X19	0.42	16.415	8	0.056	32.83	y	5	5.473	250.65	11.175	92.625	1	H1-1b
83	F1_J73	W12X19	0.42	16.415	8	0.056	32.83	y	5	5.473	250.65	11.175	92.625	1	H1-1b
84	F1_J74	W12X19	0.42	16.415	8	0.055	32.83	y	5	5.473	250.65	11.175	92.625	1	H1-1b
85	F1_J75	W12X19	0.42	16.415	8	0.056	32.83	y	7	5.473	250.65	11.175	92.625	1	H1-1b
86	F1_J76	W12X19	0.42	16.415	8	0.056	32.83	y	7	5.473	250.65	11.175	92.625	1	H1-1b
87	F1_J77	W12X19	0.42	16.415	8	0.056	32.83	y	7	5.473	250.65	11.175	92.625	1	H1-1b
88	F1_J78	W12X19	0.413	16.415	8	0.055	32.83	y	5	5.473	250.65	11.175	92.625	1	H1-1b
89	F1_J79	W12X19	0.413	16.415	8	0.055	32.83	y	5	5.473	250.65	11.175	92.625	1	H1-1b
90	F1_J80	W12X19	0.413	16.415	8	0.055	32.83	y	5	5.473	250.65	11.175	92.625	1	H1-1b
91	F1_J81	W12X19	0.413	16.415	8	0.054	32.83	y	7	5.473	250.65	11.175	92.625	1	H1-1b
92	F1_J82	W12X19	0.413	16.415	8	0.055	32.83	y	7	5.473	250.65	11.175	92.625	1	H1-1b
93	F1_J83	W12X19	0.413	16.415	8	0.056	32.83	y	7	5.473	250.65	11.175	92.625	1	H1-1b
94	F1_J84	W12X19	0.426	16.665	8	0.055	33.33	y	5	5.31	250.65	11.175	92.625	1	H1-1b
95	F1_J85	W12X19	0.426	16.665	8	0.055	33.33	y	5	5.31	250.65	11.175	92.625	1	H1-1b
96	F1_J86	W12X19	0.426	16.665	8	0.055	33.33	y	5	5.31	250.65	11.175	92.625	1	H1-1b
97	F1_J87	W12X19	0.426	16.665	8	0.055	33.33	y	5	5.31	250.65	11.175	92.625	1	H1-1b
98	F1_J88	W12X19	0.426	16.665	8	0.055	33.33	y	5	5.31	250.65	11.175	92.625	1	H1-1b
99	F1_J89	W12X19	0.426	16.665	8	0.055	33.33	y	5	5.31	250.65	11.175	92.625	1	H1-1b
100	F1_J90	W12X19	0.433	16.665	8	0.056	33.33	y	7	5.31	250.65	11.175	92.625	1	H1-1b
101	F1_J91	W12X19	0.433	16.665	8	0.056	33.33	y	5	5.31	250.65	11.175	92.625	1	H1-1b
102	F1_J92	W12X19	0.433	16.665	8	0.056	33.33	y	5	5.31	250.65	11.175	92.625	1	H1-1b
103	F1_J93	W12X19	0.433	16.665	8	0.056	33.33	y	5	5.31	250.65	11.175	92.625	1	H1-1b
104	F1_J94	W12X19	0.433	16.665	8	0.056	33.33	y	5	5.31	250.65	11.175	92.625	1	H1-1b
105	F1_J95	W12X19	0.433	16.665	8	0.056	33.33	y	5	5.31	250.65	11.175	92.625	1	H1-1b
106	F1_J96	W12X19	0.433	16.665	8	0.056	33.33	y	7	5.31	250.65	11.175	92.625	1	H1-1b
107	F1_J97	W12X19	0.433	16.665	8	0.056	33.33	y	7	5.31	250.65	11.175	92.625	1	H1-1b
108	F1_J98	W12X19	0.433	16.665	8	0.056	33.33	y	7	5.31	250.65	11.175	92.625	1	H1-1b
109	F1_J99	W12X19	0.433	16.665	8	0.056	33.33	y	8	5.31	250.65	11.175	92.625	1	H1-1b
110	F1_J100	W12X19	0.433	16.665	8	0.056	33.33	y	7	5.31	250.65	11.175	92.625	1	H1-1b
111	F1_J101	W12X19	0.433	16.665	8	0.056	33.33	y	7	5.31	250.65	11.175	92.625	1	H1-1b
112	F1_J102	W12X19	0.433	16.665	8	0.056	33.33	y	5	5.31	250.65	11.175	92.625	1	H1-1b
113	F1_J103	W12X19	0.433	16.665	8	0.056	33.33	y	5	5.31	250.65	11.175	92.625	1	H1-1b
114	F1_J104	W12X19	0.433	16.665	8	0.056	33.33	y	5	5.31	250.65	11.175	92.625	1	H1-1b
115	F1_J105	W12X19	0.433	16.665	8	0.056	33.33	y	5	5.31	250.65	11.175	92.625	1	H1-1b
116	F1_J106	W12X19	0.433	16.665	8	0.056	33.33	y	5	5.31	250.65	11.175	92.625	1	H1-1b
117	F1_J107	W12X19	0.433	16.665	8	0.056	33.33	y	7	5.31	250.65	11.175	92.625	1	H1-1b
118	F1_J108	W12X19	0.426	16.665	8	0.055	33.33	y	5	5.31	250.65	11.175	92.625	1	H1-1b
119	F1_J109	W12X19	0.426	16.665	8	0.055	33.33	y	5	5.31	250.65	11.175	92.625	1	H1-1b
120	F1_J110	W12X19	0.426	16.665	8	0.055	33.33	y	5	5.31	250.65	11.175	92.625	1	H1-1b
121	F1_J111	W12X19	0.426	16.665	8	0.055	33.33	y	5	5.31	250.65	11.175	92.625	1	H1-1b
122	F1_J112	W12X19	0.426	16.665	8	0.055	33.33	y	5	5.31	250.65	11.175	92.625	1	H1-1b
123	F1_J113	W12X19	0.426	16.665	8	0.055	33.33	y	5	5.31	250.65	11.175	92.625	1	H1-1b
124	F1_J114	W12X19	0.413	16.415	8	0.056	32.83	y	7	5.473	250.65	11.175	92.625	1	H1-1b
125	F1_J115	W12X19	0.413	16.415	8	0.055	32.83	y	7	5.473	250.65	11.175	92.625	1	H1-1b

Envelope AISC 15TH (360-16): LRFD Member Steel Code Checks (Continued)

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn
126	F1_J116	W12X19	0.413	16.415	8	0.054	32.83	y	7	5.473	250.65	11.175	92.625	1	H1-1b
127	F1_J117	W12X19	0.413	16.415	8	0.055	32.83	y	5	5.473	250.65	11.175	92.625	1	H1-1b
128	F1_J118	W12X19	0.413	16.415	8	0.055	32.83	y	5	5.473	250.65	11.175	92.625	1	H1-1b
129	F1_J119	W12X19	0.413	16.415	8	0.055	32.83	y	5	5.473	250.65	11.175	92.625	1	H1-1b
130	F1_J120	W12X19	0.42	16.415	8	0.056	32.83	y	5	5.473	250.65	11.175	92.625	1	H1-1b
131	F1_J121	W12X19	0.42	16.415	8	0.056	32.83	y	5	5.473	250.65	11.175	92.625	1	H1-1b
132	F1_J122	W12X19	0.42	16.415	8	0.056	32.83	y	5	5.473	250.65	11.175	92.625	1	H1-1b
133	F1_J123	W12X19	0.42	16.415	8	0.055	32.83	y	7	5.473	250.65	11.175	92.625	1	H1-1b
134	F1_J124	W12X19	0.42	16.415	8	0.056	32.83	y	7	5.473	250.65	11.175	92.625	1	H1-1b
135	F1_J125	W12X19	0.42	16.415	8	0.056	32.83	y	5	5.473	250.65	11.175	92.625	1	H1-1b
136	F1_J126	W12X19	0.42	16.415	8	0.056	32.83	y	5	5.473	250.65	11.175	92.625	1	H1-1b
137	F1_J127	W12X19	0.42	16.415	8	0.056	32.83	y	5	5.473	250.65	11.175	92.625	1	H1-1b
138	F1_J128	W12X19	0.42	16.415	8	0.056	32.83	y	5	5.473	250.65	11.175	92.625	1	H1-1b
139	F1_J129	W12X19	0.42	16.415	8	0.056	32.83	y	7	5.473	250.65	11.175	92.625	1	H1-1b
140	F1_J130	W12X19	0.42	16.415	8	0.056	32.83	y	5	5.473	250.65	11.175	92.625	1	H1-1b
141	F1_J131	W12X19	0.42	16.415	8	0.056	32.83	y	5	5.473	250.65	11.175	92.625	1	H1-1b
142	F1_J132	W12X19	0.42	16.415	8	0.057	32.83	y	5	5.473	250.65	11.175	92.625	1	H1-1b
143	F1_J133	W12X19	0.42	16.415	8	0.058	32.83	y	4	5.473	250.65	11.175	92.625	1	H1-1b
144	F1_J134	W12X19	0.42	16.415	8	0.057	32.83	y	4	5.473	250.65	11.175	92.625	1	H1-1b
145	F1_J135	W12X19	0.42	16.415	8	0.057	32.83	y	7	5.473	250.65	11.175	92.625	1	H1-1b
146	F1_J136	W12X19	0.42	16.415	8	0.058	32.83	y	7	5.473	250.65	11.175	92.625	1	H1-1b
147	F1_J137	W12X19	0.42	16.415	8	0.058	32.83	y	5	5.473	250.65	11.175	92.625	1	H1-1b
148	F1_J138	W12X19	0.413	16.415	8	0.057	32.83	y	7	5.473	250.65	11.175	92.625	1	H1-1b
149	F1_J139	W12X19	0.413	16.415	8	0.056	32.83	y	7	5.473	250.65	11.175	92.625	1	H1-1b
150	F1_J140	W12X19	0.413	16.415	8	0.055	32.83	y	7	5.473	250.65	11.175	92.625	1	H1-1b
151	F1_J141	W12X19	0.413	16.415	8	0.055	32.83	y	7	5.473	250.65	11.175	92.625	1	H1-1b
152	F1_J142	W12X19	0.413	16.415	8	0.056	32.83	y	5	5.473	250.65	11.175	92.625	1	H1-1b
153	F1_J143	W12X19	0.413	16.415	8	0.056	32.83	y	5	5.473	250.65	11.175	92.625	1	H1-1b
154	F1_J148	W12X19	0.183	5.44	8	0.081	10.88	y	7	49.832	250.65	11.175	92.625	1	H1-1b
155	F1_J149	W12X19	0.232	6.125	8	0.09	12.25	y	7	39.309	250.65	11.175	92.625	1	H1-1b
156	F1_J150	W12X19	0.316	7.294	8	0.101	14.589	y	7	27.715	250.65	11.175	92.625	1	H1-1b
157	F1_J151	W12X19	0.528	9.233	8	0.128	18.467	y	7	17.297	250.65	11.175	92.625	1	H1-1b
158	F1_J152	W12X19	0.6	9.922	8	0.135	19.844	y	5	14.98	250.65	11.175	92.625	1	H1-1b
159	F1_J153	W18X35	0.567	16.415	8	0.109	32.83	y	7	22.27	463.5	30.225	249.375	1	H1-1b
160	F1_J154	W18X35	0.527	16.415	8	0.103	32.83	y	7	22.27	463.5	30.225	249.375	1	H1-1b
161	F1_J155	W18X35	0.583	16.665	8	0.107	33.33	y	5	21.607	463.5	30.225	249.375	1	H1-1b
162	F1_J156	W18X35	0.583	16.665	8	0.107	33.33	y	5	21.607	463.5	30.225	249.375	1	H1-1b
163	F1_J157	W18X35	0.567	16.415	8	0.107	32.83	y	7	22.27	463.5	30.225	249.375	1	H1-1b
164	F1_J158	W18X35	0.567	16.415	8	0.107	32.83	y	7	22.27	463.5	30.225	249.375	1	H1-1b
165	F1_G159	W12X19	0.055	4.165	7	0.029	8.33	y	5	85.011	250.65	11.175	92.625	1	H1-1b
166	F1_G154	W16X26	0.277	9.139	7	0.085	18.277	y	7	45.039	345.6	20.55	165.75	1	H1-1b
167	F1_G155	W12X19	0.063	3.17	7	0.043	0	y	7	133.903	250.65	11.175	92.625	1	H1-1b
168	F1_G157	W12X19	0.134	3.962	8	0.055	0	y	5	93.963	250.65	11.175	68.616	1.136	H1-1b
169	F1_G160	W10X12	0.003	4.335	1	0.009	8.67	y	7	45.498	159.3	6.458	46.904	1	H1-1b
170	(B-2)_L1	HSS5X5X3	**1.022**	0	7	0	16	y	13	71.208	135.792	20.32	20.32	1	H1-1a*
171	(B-3)_L1	HSS5X5X3	0.967	0	5	0	16	y	13	71.208	135.792	20.32	20.32	1	H1-1a*
172	(A-2)_L1	HSS5X5X3	**1.022**	0	5	0	16	y	13	71.208	135.792	20.32	20.32	1	H1-1a*
173	(A-3)_L1	HSS5X5X3	0.967	0	5	0	16	y	13	71.208	135.792	20.32	20.32	1	H1-1a*
174	(B-4)_L1	HSS5X5X3	0.967	0	7	0	16	y	13	71.208	135.792	20.32	20.32	1	H1-1a*
175	(A-4)_L1	HSS5X5X3	0.967	0	7	0	16	y	13	71.208	135.792	20.32	20.32	1	H1-1a*
176	(B-5)_L1	HSS5X5X3	**1.022**	0	5	0	16	y	13	71.208	135.792	20.32	20.32	1	H1-1a*
177	(A-5)_L1	HSS5X5X3	**1.022**	0	5	0	16	y	13	71.208	135.792	20.32	20.32	1	H1-1a*
178	(A-6)_L1	HSS6X6X6	0.632	0	7	0	16	y	13	194.987	313.812	54.51	54.51	1.667	H1-1a*
179	(M-D)_L1	HSS6X6X6	0.191	0	5	0	16	z	13	194.987	313.812	54.51	54.51	1.667	H1-1b*
180	C15_L1	HSS6X6X6	0.304	0	7	0	16	z	13	194.987	313.812	54.51	54.51	1	H1-1a*
181	C19_L1	HSS12X8X6	**1.229**	12	7	0.247	16	y	7	432.547	546.48	130.211	182.85	1.364	H1-1a
182	C20_L1	HSS12X8X6	0.387	12	5	0.058	16	y	7	432.547	546.48	130.211	182.85	1.364	H1-1b
183	(J-C)_L1	HSS6X6X6	0.074	0	5	0	16	y	13	194.987	313.812	54.51	54.51	1.667	H1-1b*

Envelope AISC 15TH (360-16): LRFD Member Steel Code Checks (Continued)

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn
184	(K-C)_L1	HSS6X6X6	0.224	12	4	0.024	16	y	5	194.987	313.812	54.51	54.51	1.364	H1-1b
185	(C-5)_L1	HSS6X6X6	0.308	12	5	0.015	16	y	5	194.987	313.812	54.51	54.51	1.364	H1-1a
186	M193	HSS12X6X6	0.434	11.495	5	0.151	23.48	y	4	205.815	488.52	90.143	154.56	1	H1-1b
187	M194	HSS12X6X6	0.282	9.98	15	0.101	19.96	y	4	261.582	488.52	90.143	154.56	1	H1-1b
188	M196	HSS12X6X6	0.264	10.038	15	0.042	20.076	y	7	267.171	531	95.559	168	1	H1-1b
189	M197	HSS12X6X6	0.36	9.139	7	0.068	18.279	y	4	289.316	488.52	90.143	154.56	1	H1-1b
190	M198	HSS12X8X6	0.62	9.545	4	0.176	9.545	y	4	491.452	546.48	130.211	182.85	2.768	H1-1b
191	M199	HSS12X8X6	0.345	4.072	7	0.106	3.886	y	4	434.206	594	137.901	198.75	1.566	H1-1b
192	M200	HSS12X6X6	0.084	0	4	0.07	0	y	4	487.326	488.52	90.143	154.56	2.172	H1-1b
193	M201	HSS12X6X6	0.163	0	7	0.144	0	y	7	487.326	488.52	90.143	154.56	2.144	H1-1b
194	M205	HSS12X6X6	0.189	6.193	13	0.041	6.193	y	13	414.325	488.52	90.143	154.56	1.774	H1-1b
195	M212	HSS12X6X6	0.107	1.25	13	0.053	0	y	13	487.326	488.52	90.143	154.56	1.434	H1-1b
196	M213	HSS12X6X6	0.381	10.25	4	0.102	10.25	y	7	414.325	488.52	90.143	154.56	3	H1-1b
197	M216	HSS12X6X6	0.325	16.206	5	0.113	16.206	y	4	230.111	488.52	90.143	154.56	1.599	H1-1b
198	M218	HSS12X6X6	0.165	6.727	15	0.048	6.727	y	15	414.325	488.52	90.143	154.56	1.662	H1-1b
199	M220	HSS6X6X6	0.134	5.706	15	0.05	5.706	z	13	128.547	313.812	54.51	54.51	1.445	H1-1b
200	M223	HSS12X12X10	0.452	0	6	0.087	11.82	z	19	849.693	1063.98	376.05	376.05	1.309	H1-1b
201	M224	HSS12X12X6	0.178	5.339	7	0.053	10.25	z	5	632.866	662.4	223.27	223.27	1.967	H1-1b
202	M225	HSS12X8X6	0.679	16.175	5	0.707	16.175	z	4	416.399	546.48	130.211	182.85	2.63	H3-6
203	M229	HSS12X12X10	0.488	1.854	7	0.137	1.854	y	14	849.693	1063.98	376.05	376.05	1.573	H1-1b
204	M226	HSS12X8X6	0.434	16.175	7	0.415	16.175	z	8	416.399	546.48	130.211	182.85	2.022	H3-6
205	M227	HSS12X8X6	0.439	19.324	5	0.065	0	z	5	179.274	546.48	130.211	182.85	1.152	H1-1b
206	M228	HSS12X8X6	0.583	0	7	0.118	0	z	4	179.274	546.48	130.211	182.85	1.245	H1-1b
207	M221	HSS12X8X6	0.098	12	5	0.076	16	y	13	432.547	546.48	130.211	182.85	1.957	H1-1b
208	M222	HSS12X8X6	0.47	12	4	0.075	16	y	7	432.547	546.48	130.211	182.85	1.364	H1-1b
209	M230	HSS12X8X6	0.535	6.412	4	0.133	6.412	y	7	518.399	546.48	130.211	182.85	1.91	H1-1b
210	M217	HSS12X6X6	0.119	1.27	15	0.053	1.27	y	15	487.286	488.52	90.143	154.56	1.331	H1-1b
211	M219	HSS12X6X6	0.146	1.26	5	0.099	0	y	5	487.305	488.52	90.143	154.56	1.739	H1-1b
212	M232	HSS12X6X6	0.019	10.25	17	0.006	10.25	z	19	414.325	488.52	90.143	154.56	1.175	H1-1b
213	M233	HSS8X8X6	0.3	8.04	7	0.083	0	y	4	352.601	468	110.25	110.25	1	H1-1b
214	M234	W16X26	0.189	8.164	7	0.072	16.329	y	5	56.427	345.6	20.55	165.75	1	H1-1b
215	M235	HSS8X8X6	0.292	9	7	0.09	18	y	4	328.221	468	110.25	110.25	1	H1-1b
216	M236	HSS8X8X6	0.303	11.33	7	0.031	22.66	y	4	266.723	468	110.25	110.25	1	H1-1b
217	M237	HSS8X8X6	0.042	3.758	7	0.066	7.515	y	7	439.935	468	110.25	110.25	1.136	H1-1b
218	M238	HSS8X8X6	0.051	4.155	7	0.069	8.31	y	4	433.916	468	110.25	110.25	1.136	H1-1b
219	M239	HSS8X8X6	0.061	4.553	7	0.079	9.105	y	4	427.388	468	110.25	110.25	1.136	H1-1b
220	M240	HSS8X8X6	0.083	5.304	7	0.036	10.608	y	4	413.745	468	110.25	110.25	1.136	H1-1b
221	M241	HSS8X8X6	0.094	5.658	5	0.05	11.316	y	4	406.774	468	110.25	110.25	1.136	H1-1b
222	M245	HSS12X6X6	0.078	6.012	5	0.071	12.024	y	4	389.44	488.52	90.143	154.56	1.136	H1-1b
223	M246	HSS8X8X6	0.025	2.861	5	0.144	5.721	y	4	451.523	468	110.25	110.25	1.136	H1-1b
224	M247	HSS8X8X6	0.017	2.36	7	0.103	4.721	y	4	456.719	468	110.25	110.25	1.136	H1-1b
225	M248	HSS8X8X6	0.011	1.861	5	0.068	3.722	y	4	460.955	468	110.25	110.25	1.136	H1-1b
226	M249	HSS6X6X6	0.274	12	4	0.009	12	y	7	240.116	313.812	54.51	54.51	1.667	H1-1b
227	M250	HSS12X8X6	0.394	0	4	0.057	0	y	4	567.959	594	137.901	198.75	1.695	H1-1b
228	M251	HSS12X8X6	0.5	4.375	4	0.173	4.229	y	7	488.972	594	137.901	198.75	1.507	H1-1b
229	M252	HSS12X8X6	0.633	0	4	0.077	0	y	4	538.928	594	137.901	198.75	1.893	H1-1b
230	M253	W12X19	0.038	2.46	8	0.034	0	y	4	168.136	250.65	11.175	92.625	1	H1-1b
231	M255	HSS6X6X6	0.275	4	4	0.042	4	z	4	330.249	341.1	59.25	59.25	1.666	H1-1b
232	M256	HSS6X6X6	0.287	7.049	5	0.018	14.398	y	7	224.377	341.1	59.25	59.25	1.136	H1-1a
233	M254	HSS12X8X6	0.375	17.253	15	0.107	17.253	z	4	416.399	546.48	130.211	182.85	1.743	H1-1b
234	M257	HSS12X8X6	0.676	0	8	0.089	0	z	4	432.704	546.48	130.211	182.85	2.326	H1-1b
235	M258	HSS12X8X6	0.656	0	4	0.089	0	z	4	432.704	546.48	130.211	182.85	1	H1-1b
236	M244	HSS12X8X6	0.42	19.689	5	0.067	0	z	5	179.274	546.48	130.211	182.85	1.166	H1-1b
237	M242	W16X26	0.762	16.415	8	0.151	32.83	y	5	13.959	345.6	20.55	165.75	1	H1-1b

Envelope AISI S100-16: ASD Member Cold Formed Steel Code Checks

No Data to Print...

Envelope AWC NDS-18: ASD Member Wood Code Checks

No Data to Print...

Envelope Concrete Beam Design Results

No Data to Print...

Envelope Concrete Column Design Results

No Data to Print...

Envelope AA ADM1-15: ASD - BUILDING Member Aluminum Code Checks

No Data to Print...

Envelope AISC 14TH (360-10): ASD Member Stainless Steel Code Checks

No Data to Print...

Concrete Beam Bending Reinforcement

No Data to Print...

Concrete Beam Shear Reinforcement

No Data to Print...

Concrete Column Bending Reinforcement

No Data to Print...

Concrete Column Shear Reinforcement

No Data to Print...

Member Suggested Designs

	Section Set/Member	Current Shape	Suggested Shape	Controlling Criteria	Use Suggested?
1	(B-6)_L1	HSS6X6X6	HSS6X6X3	Strength	Yes
2	(D-7)_L1	HSS6X6X6	HSS4X4X2	Strength	Yes
3	(B-7)_L1	HSS6X6X6	HSS8X8X2	Strength	Yes
4	C16_L1	HSS6X6X6	HSS6X5X2	Strength	Yes
5	C17_L1	HSS12X8X6	HSS10X5X3	Strength	Yes
6	C18_L1	HSS12X8X6	HSS6X6X4	Strength	Yes
7	(N-6)_L1	HSS6X6X6	HSS2.5X2.5X2	Strength	Yes
8	M12	HSS3X3X6	HSS2X1X2	Strength	Yes
9	M13	HSS3X3X6	HSS2X1X2	Strength	Yes
10	M14	HSS3X3X6	HSS2X1X2	Strength	Yes
11	M15	HSS3X3X6	HSS2X1X2	Strength	Yes
12	M16	HSS6X6X6	HSS5.5X5.5X2	Strength	Yes
13	M17	HSS6X6X6	HSS5.5X5.5X2	Strength	Yes
14	M18	HSS6X6X6	HSS6X5X2	Strength	Yes
15	M19	HSS6X6X6	HSS5X5X2	Strength	Yes
16	F1_G11	W14X22	W6X8.5	Strength	Yes
17	F1_G18	W24X76	W21X48	Strength	Yes
18	F1_G21	W27X146	W27X84	Strength	Yes
19	F1_G22	W21X44	W18X35	Strength	Yes
20	F1_G31	W24X76	W24X55	Strength	Yes
21	F1_G34	W16X26	W6X8.5	Strength	Yes
22	F1_G37	W24X76	W24X68	Strength	Yes
23	F1_G38	W24X76	W24X68	Strength	Yes

Member Suggested Designs (Continued)

	Section Set/Member	Current Shape	Suggested Shape	Controlling Criteria	Use Suggested?
24	F1_G40	W18X35	W16X26	Strength	Yes
25	F1_G46	W12X19	W10X12	Strength	Yes
26	F1_G47	W12X19	W10X12	Strength	Yes
27	F1_G48	W12X19	W10X12	Strength	Yes
28	F1_G49	W12X19	W10X12	Strength	Yes
29	F1_G50	W12X19	W10X12	Strength	Yes
30	F1_G51	W12X19	W10X12	Strength	Yes
31	F1_G52	W12X19	W10X12	Strength	Yes
32	F1_G53	W12X19	W10X12	Strength	Yes
33	F1_G54	W12X19	W10X12	Strength	Yes
34	F1_G55	W12X19	W10X12	Strength	Yes
35	F1_G56	W12X19	W10X12	Strength	Yes
36	F1_G57	W12X19	W10X12	Strength	Yes
37	F1_J54	W12X19	W10X12	Strength	Yes
38	F1_J55	W12X19	W10X12	Strength	Yes
39	F1_J56	W12X19	W10X12	Strength	Yes
40	F1_J57	W12X19	W10X12	Strength	Yes
41	F1_J58	W12X19	W10X12	Strength	Yes
42	F1_J59	W12X19	W10X12	Strength	Yes
43	F1_J60	W12X19	W10X12	Strength	Yes
44	F1_J61	W12X19	W10X12	Strength	Yes
45	F1_J62	W12X19	W10X12	Strength	Yes
46	F1_J63	W12X19	W10X12	Strength	Yes
47	F1_J64	W12X19	W10X12	Strength	Yes
48	F1_J65	W12X19	W10X12	Strength	Yes
49	F1_J66	W12X19	W10X12	Strength	Yes
50	F1_J67	W12X19	W10X12	Strength	Yes
51	F1_J68	W12X19	W10X12	Strength	Yes
52	F1_J69	W12X19	W10X12	Strength	Yes
53	F1_J70	W12X19	W10X12	Strength	Yes
54	F1_J71	W12X19	W10X12	Strength	Yes
55	F1_J72	W12X19	W10X12	Strength	Yes
56	F1_J73	W12X19	W10X12	Strength	Yes
57	F1_J74	W12X19	W10X12	Strength	Yes
58	F1_J75	W12X19	W10X12	Strength	Yes
59	F1_J76	W12X19	W10X12	Strength	Yes
60	F1_J77	W12X19	W10X12	Strength	Yes
61	F1_J78	W12X19	W10X12	Strength	Yes
62	F1_J79	W12X19	W10X12	Strength	Yes
63	F1_J80	W12X19	W10X12	Strength	Yes
64	F1_J81	W12X19	W10X12	Strength	Yes
65	F1_J82	W12X19	W10X12	Strength	Yes
66	F1_J83	W12X19	W10X12	Strength	Yes
67	F1_J84	W12X19	W10X12	Strength	Yes
68	F1_J85	W12X19	W10X12	Strength	Yes
69	F1_J86	W12X19	W10X12	Strength	Yes
70	F1_J87	W12X19	W10X12	Strength	Yes
71	F1_J88	W12X19	W10X12	Strength	Yes
72	F1_J89	W12X19	W10X12	Strength	Yes
73	F1_J90	W12X19	W10X12	Strength	Yes
74	F1_J91	W12X19	W10X12	Strength	Yes
75	F1_J92	W12X19	W10X12	Strength	Yes
76	F1_J93	W12X19	W10X12	Strength	Yes
77	F1_J94	W12X19	W10X12	Strength	Yes
78	F1_J95	W12X19	W10X12	Strength	Yes
79	F1_J96	W12X19	W10X12	Strength	Yes
80	F1_J97	W12X19	W10X12	Strength	Yes
81	F1_J98	W12X19	W10X12	Strength	Yes

Member Suggested Designs (Continued)

	Section Set/Member	Current Shape	Suggested Shape	Controlling Criteria	Use Suggested?
82	F1_J99	W12X19	W10X12	Strength	Yes
83	F1_J100	W12X19	W10X12	Strength	Yes
84	F1_J101	W12X19	W10X12	Strength	Yes
85	F1_J102	W12X19	W10X12	Strength	Yes
86	F1_J103	W12X19	W10X12	Strength	Yes
87	F1_J104	W12X19	W10X12	Strength	Yes
88	F1_J105	W12X19	W10X12	Strength	Yes
89	F1_J106	W12X19	W10X12	Strength	Yes
90	F1_J107	W12X19	W10X12	Strength	Yes
91	F1_J108	W12X19	W10X12	Strength	Yes
92	F1_J109	W12X19	W10X12	Strength	Yes
93	F1_J110	W12X19	W10X12	Strength	Yes
94	F1_J111	W12X19	W10X12	Strength	Yes
95	F1_J112	W12X19	W10X12	Strength	Yes
96	F1_J113	W12X19	W10X12	Strength	Yes
97	F1_J114	W12X19	W10X12	Strength	Yes
98	F1_J115	W12X19	W10X12	Strength	Yes
99	F1_J116	W12X19	W10X12	Strength	Yes
100	F1_J117	W12X19	W10X12	Strength	Yes
101	F1_J118	W12X19	W10X12	Strength	Yes
102	F1_J119	W12X19	W10X12	Strength	Yes
103	F1_J120	W12X19	W10X12	Strength	Yes
104	F1_J121	W12X19	W10X12	Strength	Yes
105	F1_J122	W12X19	W10X12	Strength	Yes
106	F1_J123	W12X19	W10X12	Strength	Yes
107	F1_J124	W12X19	W10X12	Strength	Yes
108	F1_J125	W12X19	W10X12	Strength	Yes
109	F1_J126	W12X19	W10X12	Strength	Yes
110	F1_J127	W12X19	W10X12	Strength	Yes
111	F1_J128	W12X19	W10X12	Strength	Yes
112	F1_J129	W12X19	W10X12	Strength	Yes
113	F1_J130	W12X19	W10X12	Strength	Yes
114	F1_J131	W12X19	W10X12	Strength	Yes
115	F1_J132	W12X19	W10X12	Strength	Yes
116	F1_J133	W12X19	W10X12	Strength	Yes
117	F1_J134	W12X19	W10X12	Strength	Yes
118	F1_J135	W12X19	W10X12	Strength	Yes
119	F1_J136	W12X19	W10X12	Strength	Yes
120	F1_J137	W12X19	W10X12	Strength	Yes
121	F1_J138	W12X19	W10X12	Strength	Yes
122	F1_J139	W12X19	W10X12	Strength	Yes
123	F1_J140	W12X19	W10X12	Strength	Yes
124	F1_J141	W12X19	W10X12	Strength	Yes
125	F1_J142	W12X19	W10X12	Strength	Yes
126	F1_J143	W12X19	W10X12	Strength	Yes
127	F1_J153	W18X35	W16X26	Strength	Yes
128	F1_J155	W18X35	W16X26	Strength	Yes
129	F1_J156	W18X35	W16X26	Strength	Yes
130	F1_G160	W10X12	W6X8.5	Strength	Yes
131	(B-2)_L1	HSS5X5X3	HSS7X7X2	Strength	Yes
132	(B-3)_L1	HSS5X5X3	HSS7X7X2	Strength	Yes
133	(A-2)_L1	HSS5X5X3	HSS7X7X2	Strength	Yes
134	(A-3)_L1	HSS5X5X3	HSS7X7X2	Strength	Yes
135	(B-4)_L1	HSS5X5X3	HSS7X7X2	Strength	Yes
136	(A-4)_L1	HSS5X5X3	HSS7X7X2	Strength	Yes
137	(B-5)_L1	HSS5X5X3	HSS7X7X2	Strength	Yes
138	(A-5)_L1	HSS5X5X3	HSS7X7X2	Strength	Yes
139	(A-6)_L1	HSS6X6X6	HSS8X6X3	Strength	Yes

Member Suggested Designs (Continued)

	Section Set/Member	Current Shape	Suggested Shape	Controlling Criteria	Use Suggested?
140	(M-D)_L1	HSS6X6X6	HSS4.5X4.5X2	Strength	Yes
141	C15_L1	HSS6X6X6	HSS5.5X5.5X2	Strength	Yes
142	C19_L1	HSS12X8X6	HSS20X8X5	Strength	Yes
143	C20_L1	HSS12X8X6	HSS10X6X4	Strength	Yes
144	(J-C)_L1	HSS6X6X6	HSS3.5X3.5X2	Strength	Yes
145	(K-C)_L1	HSS6X6X6	HSS6X5X2	Strength	Yes
146	(C-5)_L1	HSS6X6X6	HSS6X6X2	Strength	Yes
147	M193	HSS12X6X6	HSS14X4X3	Strength	Yes
148	M194	HSS12X6X6	HSS9X5X3	Strength	Yes
149	M196	HSS12X6X6	HSS9X5X3	Strength	Yes
150	M197	HSS12X6X6	HSS12X4X3	Strength	Yes
151	M198	HSS12X8X6	HSS16X4X4	Strength	Yes
152	M199	HSS12X8X6	HSS12X4X3	Strength	Yes
153	M200	HSS12X6X6	HSS8X2X2	Strength	Yes
154	M201	HSS12X6X6	HSS10X3X2	Strength	Yes
155	M205	HSS12X6X6	HSS10X3.5X2	Strength	Yes
156	M212	HSS12X6X6	HSS8X2X2	Strength	Yes
157	M213	HSS12X6X6	HSS14X4X3	Strength	Yes
158	M216	HSS12X6X6	HSS10X5X3	Strength	Yes
159	M218	HSS12X6X6	HSS10X4X2	Strength	Yes
160	M220	HSS6X6X6	HSS4X4X2	Strength	Yes
161	M223	HSS12X12X10	HSS14X10X5	Strength	Yes
162	M224	HSS12X12X6	HSS10X6X3	Strength	Yes
163	M225	HSS12X8X6	HSS12X12X3	Strength	Yes
164	M229	HSS12X12X10	HSS12X10X6	Strength	Yes
165	M226	HSS12X8X6	HSS10X8X3	Strength	Yes
166	M227	HSS12X8X6	HSS10X10X3	Strength	Yes
167	M228	HSS12X8X6	HSS12X12X3	Strength	Yes
168	M221	HSS12X8X6	HSS5.5X5.5X2	Strength	Yes
169	M222	HSS12X8X6	HSS12X6X4	Strength	Yes
170	M230	HSS12X8X6	HSS14X4X4	Strength	Yes
171	M217	HSS12X6X6	HSS8X3X2	Strength	Yes
172	M219	HSS12X6X6	HSS10X2X2	Strength	Yes
173	M232	HSS12X6X6	HSS3X1.5X2	Strength	Yes
174	M233	HSS8X8X6	HSS9X3X3	Strength	Yes
175	M235	HSS8X8X6	HSS9X3X3	Strength	Yes
176	M236	HSS8X8X6	HSS10X3.5X3	Strength	Yes
177	M237	HSS8X8X6	HSS5X2X2	Strength	Yes
178	M238	HSS8X8X6	HSS4X3X2	Strength	Yes
179	M239	HSS8X8X6	HSS5X2.5X2	Strength	Yes
180	M240	HSS8X8X6	HSS5X2.5X2	Strength	Yes
181	M241	HSS8X8X6	HSS6X2X2	Strength	Yes
182	M245	HSS12X6X6	HSS7X2X2	Strength	Yes
183	M246	HSS8X8X6	HSS7X4X2	Strength	Yes
184	M247	HSS8X8X6	HSS6X3X2	Strength	Yes
185	M248	HSS8X8X6	HSS4X3X2	Strength	Yes
186	M249	HSS6X6X6	HSS7X7X2	Strength	Yes
187	M250	HSS12X8X6	HSS16X4X3	Strength	Yes
188	M251	HSS12X8X6	HSS14X4X4	Strength	Yes
189	M252	HSS12X8X6	HSS16X4X4	Strength	Yes
190	M255	HSS6X6X6	HSS6X6X2	Strength	Yes
191	M256	HSS6X6X6	HSS5.5X5.5X2	Strength	Yes
192	M254	HSS12X8X6	HSS12X8X3	Strength	Yes
193	M257	HSS12X8X6	HSS10X10X4	Strength	Yes
194	M258	HSS12X8X6	HSS8X8X5	Strength	Yes
195	M244	HSS12X8X6	HSS10X10X3	Strength	Yes
196	M242	W16X26	W12X26	Strength	Yes

Envelope Plate Principal Stresses

No Data to Print...

Envelope Plate Forces (per ft)

No Data to Print...

Envelope Plate/Shell Corner Forces

No Data to Print...

Envelope Solid Stresses

No Data to Print...

Envelope Solid Principal Stresses

No Data to Print...

Envelope Solid Corner Forces

No Data to Print...

Envelope Wall Panel Forces

	Wall Label	Elevation [ft]		Axial [k]	LC	x Shear [k]	LC	z Shear [k]	LC	x-x Moment [k-ft]	LC	z-z Moment [k-ft]	LC
1	W1	0	max	53.653	15	30.281	15	-0.003	49	0	13	291.126	13
2		0	min	-4.818	21	-30.272	13	-0.011	7	0	23	-266.066	23
3	W2	0	max	421.816	5	59.306	19	-0.003	49	0	15	464.285	23
4		0	min	135.795	51	-61.444	13	-0.018	15	0	21	-1110.906	5
5	W2	16	max	54.158	1	0.025	14	0.102	21	0.126	21	-2.815	51
6		16	min	23.205	49	-0.004	24	-0.127	15	-0.161	15	-15.352	5
7	W3	0	max	192.497	8	102.472	13	-0.007	49	0	18	1204.179	19
8		0	min	76.88	50	-102.985	15	-0.017	7	0	24	-1228.584	13
9	W3	16	max	31.097	1	0.215	21	0.016	24	0.026	24	1.53	15
10		16	min	13.322	49	-0.215	15	-0.059	14	-0.073	18	-1.563	17
11	W4	0	max	234.619	6	66.354	19	-0.003	49	0	13	1498.779	13
12		0	min	87.021	52	-72.107	13	-0.007	1	0	23	-1076.608	23
13	W4	16	max	31.081	1	0.047	23	0.106	23	0.12	23	7.507	5
14		16	min	13.219	51	-0.163	5	-0.131	13	-0.155	13	-9.379	19

Concrete Wall Reinforcement

No Data to Print...

Masonry Wall Reinforcement

	Wall	Region	Hor. Bar Size	Vert. Bar Size	Boundary Reinf.
1	W1	R1	#5@48 oc	#5@72" oc (ctr)	2-#5
2	W2	R1	Not Reqd.	#5@72" oc (ctr)	1-#5
3	W3	R2	Not Reqd.	#5@72" oc (ctr)	1-#5
4		R3	Not Reqd.	#5@72" oc (ctr)	1-#5
5	W4	R1	Not Reqd.	#5@72" oc (ctr)	1-#5

Masonry Lintel Reinforcement

No Data to Print...

ACI 318-19 Wall Panel Concrete Code Checks (In-Plane)

No Data to Print...

ACI 318-19 Wall Panel Concrete Code Checks (Out-of-Plane)

No Data to Print...

TMS 402-16: ASD Wall Panel Masonry Code Checks (In-Plane)

	Wall Panel	Region	Design Rule	Combined UC	LC	Shear UC	LC	Fa[ksi]	Fb[ksi]	Fv[ksi]
1	W1	R1	Typical	0.919	21	0.938	21	0.327	0.675	0.067
2	W2	R1	Typical	0.175	5	0.205	21	0.327	0.675	0.059
3	W3	R2	Typical	0.146	15	0.613	21	0.312	0.675	0.059
4		R3	Typical	0.02	1	0.001	13	0.371	0.675	0.057
5	W4	R1	Typical	0.168	5	0.444	13	0.327	0.675	0.057

TMS 402-16: ASD Wall Panel Masonry Code Checks (Out-of-Plane)

	Wall Panel	Region	Design Rule	Combined UC	LC	Shear UC	LC	Fa[ksi]	Fb[ksi]	Fv[ksi]
1	W1	R1	Typical	0.223	15	0	4	0.327	0.675	0.058
2	W2	R1	Typical	0.175	5	0	15	0.327	0.675	0.033
3	W3	R2	Typical	0.146	8	0.001	14	0.312	0.675	0.033
4		R3	Typical	0.02	1	0	14	0.371	0.675	0.033
5	W4	R1	Typical	0.168	6	0	13	0.327	0.675	0.033

Wall Panel TMS 402-16: ASD Masonry Code Checks for Lintels

No Data to Print...

AWC NDS-18: ASD Wall Panel Wood Code Checks (Axial)

No Data to Print...

AWC NDS-18: ASD Wall Panel Wood Code Checks (In-Plane)

No Data to Print...

AWC NDS-18: ASD Wall Panel Wood Code Checks (Header)

No Data to Print...

AISI S100-16: ASD Wall Panel CFS Code Checks (Axial)

No Data to Print...

AISI S100-16: ASD Wall Panel CFS Code Checks (In-Plane)

No Data to Print...

ACI 318-19 Wall Panel Concrete Code Checks (Seismic)

No Data to Print...

Masonry Wall Suggested Design

No Data to Print...

Wood Wall Suggested Design

No Data to Print...

Envelope X-Direction Story Drift - Service

	Story (Elevation)		Story Drift[in]	Loc (Z,X)	LC	Drift Ratio (%)	Loc (Z,X)	LC	2nd/1st Ratio
1	Diaph.: 1 (16 ft)	max	0.277	236.35, -27.89	49	0.212	236.35, -27.89	39	NC
2		min	-0.408	236.35, -27.89	39	0.004	236.57, -26.66	38	NC

Envelope Z-Direction Story Drift - Service

	Story (Elevation)		Story Drift[in]	Loc (Z,X)	LC	Drift Ratio (%)	Loc (Z,X)	LC	2nd/1st Ratio
1	Diaph.: 1 (16 ft)	max	0.186	236.57, -26.66	52	0.737	236.35, -27.89	60	NC
2		min	-1.414	236.35, -27.89	57	0.023	236.57, -26.66	40	NC

Envelope X-Direction Story Drift - Strength

	Story (Elevation)		Story Drift[in]	Loc (Z,X)	LC	Drift Ratio (%)	Loc (Z,X)	LC	2nd/1st Ratio
1	Diaph.: 1 (16 ft)	max	0.47	236.35, -27.89	21	0.351	236.35, -27.89	15	NC
2		min	-0.674	236.35, -27.89	15	0.005	236.35, -27.89	18	NC

Envelope Z-Direction Story Drift - Strength

	Story (Elevation)		Story Drift[in]	Loc (Z,X)	LC	Drift Ratio (%)	Loc (Z,X)	LC	2nd/1st Ratio
1	Diaph.: 1 (16 ft)	max	0.346	236.57, -26.66	24	0.903	236.35, -27.89	6	NC
2		min	-1.734	236.35, -27.89	6	0.051	236.35, -27.89	12	NC

Concrete Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E...	Density[k/ft...	f'c[ksi]	Lambda	Flex Steel[...	Shear Stee...
1	Conc3000NW	3156	1372	0.15	0.6	0.145	3	1	60	60
2	Conc3500NW	3409	1482	0.15	0.6	0.145	3.5	1	60	60
3	Conc4000NW	3644	1584	0.15	0.6	0.145	4	1	60	60
4	Conc3000LW	2085	907	0.15	0.6	0.11	3	0.75	60	60
5	Conc3500LW	2252	979	0.15	0.6	0.11	3.5	0.75	60	60
6	Conc4000LW	2408	1047	0.15	0.6	0.11	4	0.75	60	60

General Design Parameters

	Label	Max Bending Chk	Max Shear Chk	Top Cover[in]	Bottom Cover[in]
1	Typical	1	1	1.5	3

Beam Rebar Parameters

	Label	Optimize Rebar	Min Flex Bar	Max Flex Bar	Shear Bar	Legs per Stirr...	Side Cover[in]	Top/Bottom B...	Shear Bar Sp...
1	Typical	Optimize	#6	#10	#4	2	1.5	2	12

Footing/Pile Cap Rebar Parameters

	Label	Top Bar	Bottom Bar
1	Typical	#6	#6

General Properties

	Label	Min Steel ...	Max Steel ...	Material	Design Ru...	Equal Bar Spacing	Group Design	Concrete Bearing	Force Top Bar
1	Footing 1	0.002	0.007	Conc4000...	Typical			Yes	

Footing Geometry

	Label	Max Length[...	Min Length[ft]	Max Width[ft]	Min Width[ft]	L/W Increm...	Max Thickn...	Min Thickne...	Thick Incre...	Force Sq...
1	Footing 1	10	2	10	2	0.5	24	12	1	

Pedestal Properties

	Label	Type	Shape	Height[in]	e/BL	ex[in]	ez[in]	BLx[ft]	BLz[ft]
1	Footing 1	Pedestal	CRECT12X12	24	Use ex,ez	0	0	0	0

Soil Properties

	Label	Overburden[ksf]	Passive[k]	Friction Coefficient	Gross/Net
1	Footing 1	0.1	0	0.3	Gross

Soil Definitions

	Label	Subgrade Modulus[k/ft^3]	Allowable Bearing[ksf]	Depth Properties	Default?
1	Default	100	3	None	Yes

Load Combinations

	Label	So...	Se...	A...	SF	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...
1	IBC 16-1	Yes				DL	1.4																		
2	IBC 16-2...	Yes				DL	1.2	LL	1.6	LLS	1.6	HL	1.6	RLL	0.5										
3	IBC 16-2...	Yes				DL	1.2	LL	1.6	LLS	1.6	HL	1.6	SL	0.5	SLN	0.5								
4	IBC 16-2...	Yes				DL	1.2	LL	1.6	LLS	1.6	HL	1.6	RL	0.5										
5	IBC 16-3...	Yes				DL	1.2	RLL	1.6	HL	1.6	LL	0.5	LLS	1										
6	IBC 16-3...	Yes				DL	1.2	RLL	1.6	HL	1.6	WLX	0.5												

Load Combinations (Continued)

	Label	So..	Se..	A...	SF	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...
7	IBC 16-3..	Yes				DL	1.2	RLL	1.6	HL	1.6	WLZ	0.5												
8	IBC 16-3..	Yes				DL	1.2	RLL	1.6	HL	1.6	WLX	-0.5												
9	IBC 16-3..	Yes				DL	1.2	RLL	1.6	HL	1.6	WLZ	-0.5												
10	IBC 16-3..	Yes				DL	1.2	SL	1.6	SLN	1.6	HL	1.6	LL	0.5	LLS	1								
11	IBC 16-3..	Yes				DL	1.2	SL	1.6	SLN	1.6	HL	1.6	WLX	0.5										
12	IBC 16-3..	Yes				DL	1.2	SL	1.6	SLN	1.6	HL	1.6	WLZ	0.5										
13	IBC 16-3..	Yes				DL	1.2	SL	1.6	SLN	1.6	HL	1.6	WLX	-0.5										
14	IBC 16-3..	Yes				DL	1.2	SL	1.6	SLN	1.6	HL	1.6	WLZ	-0.5										
15	IBC 16-3..	Yes				DL	1.2	RL	1.6	HL	1.6	LL	0.5	LLS	1										
16	IBC 16-3..	Yes				DL	1.2	RL	1.6	HL	1.6	WLX	0.5												
17	IBC 16-3..	Yes				DL	1.2	RL	1.6	HL	1.6	WLZ	0.5												
18	IBC 16-3..	Yes				DL	1.2	RL	1.6	HL	1.6	WLX	-0.5												
19	IBC 16-3..	Yes				DL	1.2	RL	1.6	HL	1.6	WLZ	-0.5												
20	IBC 16-4..	Yes				DL	1.2	WLX	1	LL	0.5	LLS	1	HL	1.6	RLL	0.5								
21	IBC 16-4..	Yes				DL	1.2	WLZ	1	LL	0.5	LLS	1	HL	1.6	RLL	0.5								
22	IBC 16-4..	Yes				DL	1.2	WLX	-1	LL	0.5	LLS	1	HL	1.6	RLL	0.5								
23	IBC 16-4..	Yes				DL	1.2	WLZ	-1	LL	0.5	LLS	1	HL	1.6	RLL	0.5								
24	IBC 16-4..	Yes				DL	1.2	WLX	1	LL	0.5	LLS	1	HL	1.6	SL	0.5	SLN	0.5						
25	IBC 16-4..	Yes				DL	1.2	WLZ	1	LL	0.5	LLS	1	HL	1.6	SL	0.5	SLN	0.5						
26	IBC 16-4..	Yes				DL	1.2	WLX	-1	LL	0.5	LLS	1	HL	1.6	SL	0.5	SLN	0.5						
27	IBC 16-4..	Yes				DL	1.2	WLZ	-1	LL	0.5	LLS	1	HL	1.6	SL	0.5	SLN	0.5						
28	IBC 16-4..	Yes				DL	1.2	WLX	1	LL	0.5	LLS	1	HL	1.6	RL	0.5								
29	IBC 16-4..	Yes				DL	1.2	WLZ	1	LL	0.5	LLS	1	HL	1.6	RL	0.5								
30	IBC 16-4..	Yes				DL	1.2	WLX	-1	LL	0.5	LLS	1	HL	1.6	RL	0.5								
31	IBC 16-4..	Yes				DL	1.2	WLZ	-1	LL	0.5	LLS	1	HL	1.6	RL	0.5								
32	IBC 16-5..	Yes				DL	1.2	ELX	1	LL	0.5	LLS	1	HL	1.6	SL	0.2	SLN	0.7						
33	IBC 16-5..	Yes				DL	1.2	ELZ	1	LL	0.5	LLS	1	HL	1.6	SL	0.2	SLN	0.7						
34	IBC 16-5..	Yes				DL	1.2	ELX	-1	LL	0.5	LLS	1	HL	1.6	SL	0.2	SLN	0.7						
35	IBC 16-5..	Yes				DL	1.2	ELZ	-1	LL	0.5	LLS	1	HL	1.6	SL	0.2	SLN	0.7						
36	IBC 16-6..	Yes				DL	0.9	WLX	1	HL	1.6														
37	IBC 16-6..	Yes				DL	0.9	WLZ	1	HL	1.6														
38	IBC 16-6..	Yes				DL	0.9	WLX	-1	HL	1.6														
39	IBC 16-6..	Yes				DL	0.9	WLZ	-1	HL	1.6														
40	IBC 16-7..	Yes				DL	0.9	ELX	1	HL	1.6														
41	IBC 16-7..	Yes				DL	0.9	ELZ	1	HL	1.6														
42	IBC 16-7..	Yes				DL	0.9	ELX	-1	HL	1.6														
43	IBC 16-7..	Yes				DL	0.9	ELZ	-1	HL	1.6														
44	IBC 16-8	Yes	Yes		1.5	DL	1																		
45	IBC 16-9	Yes	Yes		1.5	DL	1	HL	1	LL	1	LLS	1												
46	IBC 16-1..	Yes	Yes		1.5	DL	1	HL	1	RLL	1														
47	IBC 16-1..	Yes	Yes		1.5	DL	1	HL	1	SL	1	SLN	0.75												
48	IBC 16-1..	Yes	Yes		1.5	DL	1	HL	1	RL	1														
49	IBC 16-1..	Yes	Yes		1.5	DL	1	HL	1	LL	0.75	LLS	0.75	RLL	0.75										
50	IBC 16-1..	Yes	Yes		1.5	DL	1	HL	1	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75								
51	IBC 16-1..	Yes	Yes		1.5	DL	1	HL	1	LL	0.75	LLS	0.75	RL	0.75										
52	IBC 16-1..	Yes	Yes		1.5	DL	1	HL	1	WLX	0.6														
53	IBC 16-1..	Yes	Yes		1.5	DL	1	HL	1	WLZ	0.6														
54	IBC 16-1..	Yes	Yes		1.5	DL	1	HL	1	WLX	-0.6														
55	IBC 16-1..	Yes	Yes		1.5	DL	1	HL	1	WLZ	-0.6														
56	IBC 16-1..	Yes	Yes		1.1	DL	1	HL	1	ELX	0.7														
57	IBC 16-1..	Yes	Yes		1.1	DL	1	HL	1	ELZ	0.7														
58	IBC 16-1..	Yes	Yes		1.1	DL	1	HL	1	ELX	-0.7														

Load Combinations (Continued)

	Label	So..	Se..	A...	SF	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...
59	IBC 16-1...	Yes	Yes		1.1	DL	1	HL	1	ELZ	-0.7														
60	IBC 16-1...	Yes	Yes		1.5	DL	1	HL	1	WLX	0.45	LL	0.75	LLS	0.75	RLL	0.75								
61	IBC 16-1...	Yes	Yes		1.5	DL	1	HL	1	WLZ	0.45	LL	0.75	LLS	0.75	RLL	0.75								
62	IBC 16-1...	Yes	Yes		1.5	DL	1	HL	1	WLX	-0.45	LL	0.75	LLS	0.75	RLL	0.75								
63	IBC 16-1...	Yes	Yes		1.5	DL	1	HL	1	WLZ	-0.45	LL	0.75	LLS	0.75	RLL	0.75								
64	IBC 16-1...	Yes	Yes		1.5	DL	1	HL	1	WLX	0.45	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75						
65	IBC 16-1...	Yes	Yes		1.5	DL	1	HL	1	WLZ	0.45	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75						
66	IBC 16-1...	Yes	Yes		1.5	DL	1	HL	1	WLX	-0.45	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75						
67	IBC 16-1...	Yes	Yes		1.5	DL	1	HL	1	WLZ	-0.45	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75						
68	IBC 16-1...	Yes	Yes		1.5	DL	1	HL	1	WLX	0.45	LL	0.75	LLS	0.75	RL	0.75								
69	IBC 16-1...	Yes	Yes		1.5	DL	1	HL	1	WLZ	0.45	LL	0.75	LLS	0.75	RL	0.75								
70	IBC 16-1...	Yes	Yes		1.5	DL	1	HL	1	WLX	-0.45	LL	0.75	LLS	0.75	RL	0.75								
71	IBC 16-1...	Yes	Yes		1.5	DL	1	HL	1	WLZ	-0.45	LL	0.75	LLS	0.75	RL	0.75								
72	IBC 16-1...	Yes	Yes		1.1	DL	1	HL	1	ELX	0.5...	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75						
73	IBC 16-1...	Yes	Yes		1.1	DL	1	HL	1	ELZ	0.5...	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75						
74	IBC 16-1...	Yes	Yes		1.1	DL	1	HL	1	ELX	-0.5...	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75						
75	IBC 16-1...	Yes	Yes		1.1	DL	1	HL	1	ELZ	-0.5...	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75						
76	IBC 16-1...	Yes	Yes			DL	0.6	HL	1	WLX	0.6														
77	IBC 16-1...	Yes	Yes			DL	0.6	HL	1	WLZ	0.6														
78	IBC 16-1...	Yes	Yes			DL	0.6	HL	1	WLX	-0.6														
79	IBC 16-1...	Yes	Yes			DL	0.6	HL	1	WLZ	-0.6														
80	IBC 16-1...	Yes	Yes			DL	0.6	HL	1	ELX	0.7														
81	IBC 16-1...	Yes	Yes			DL	0.6	HL	1	ELZ	0.7														
82	IBC 16-1...	Yes	Yes			DL	0.6	HL	1	ELX	-0.7														
83	IBC 16-1...	Yes	Yes			DL	0.6	HL	1	ELZ	-0.7														

Envelope Soil Pressures

	Label	Max UC	Max LC	Soil Pressure[ksf]	Allowable Bearing[ksf]
1	R3D_N328	0.762	46	2.286	3
2	R3D_N245	0.55	46	1.649	3
3	R3D_N247	0.373	46	1.119	3
4	R3D_N248	0.679	46	2.037	3
5	R3D_N243	0.507	46	1.522	3
6	R3D_N241	0.567	46	1.7	3
7	R3D_N18	0.613	46	1.839	3
8	R3D_N17	0.518	62	1.553	3
9	R3D_N16	0.453	60	1.359	3
10	R3D_N288	0.498	78	1.493	3
11	R3D_N280	0.378	77	1.135	3
12	R3D_N239	0.613	46	1.838	3
13	R3D_N15	0.516	62	1.548	3
14	R3D_N235	0.982	46	2.945	3
15	R3D_N14	0.469	60	1.406	3
16	R3D_N291	0.555	46	1.666	3
17	R3D_N13	0.57	60	1.709	3
18	R3D_N19	0.405	62	1.216	3
19	R3D_N234	0.661	46	1.983	3
20	R3D_N20	0	44	0	3
21	R3D_N24	0	44	0	3
22	R3D_N21	0	44	0	3
23	R3D_N22	0	44	0	3

Envelope Soil Pressures (Continued)

	Label	Max UC	Max LC	Soil Pressure[ksf]	Allowable Bearing[ksf]
24	R3D_N23	0	44	0	3
25	R3D_N226	0	44	0	3
26	R3D_N227	0	44	0	3
27	R3D_N228	0	44	0	3
28	R3D_N229	0	44	0	3
29	R3D_N230	0	44	0	3
30	R3D_N231	0	44	0	3
31	R3D_N232	0	44	0	3
32	R3D_N233	0	44	0	3
33	R3D_N2970	0	44	0	3
34	R3D_N2962	0	44	0	3
35	R3D_N2898	0	44	0	3
36	R3D_N2899	0	44	0	3
37	R3D_N2904	0	44	0	3
38	R3D_N2905	0	44	0	3
39	R3D_N2965	0	44	0	3
40	R3D_N2875	0	44	0	3
41	R3D_N2915	0	44	0	3
42	R3D_N2916	0	44	0	3
43	R3D_N3073	0	44	0	3
44	R3D_N3108	0	44	0	3
45	R3D_N3068	0	44	0	3
46	R3D_N2636	0	44	0	3
47	R3D_N2637	0	44	0	3
48	R3D_N2638	0	44	0	3
49	R3D_N2639	0	44	0	3
50	R3D_N2640	0	44	0	3
51	R3D_N2644	0	44	0	3
52	R3D_N2647	0	44	0	3
53	R3D_N2857	0	44	0	3
54	R3D_N2858	0	44	0	3
55	R3D_N2803	0	44	0	3
56	R3D_N2808	0	44	0	3
57	R3D_N2809	0	44	0	3
58	R3D_N2805	0	44	0	3
59	R3D_N2864	0	44	0	3
60	R3D_N2798	0	44	0	3
61	R3D_N2861	0	44	0	3
62	R3D_N2790	0	44	0	3
63	R3D_N2859	0	44	0	3
64	R3D_N2860	0	44	0	3
65	R3D_N2796	0	44	0	3
66	R3D_N2784	0	44	0	3
67	R3D_N2851	0	44	0	3
68	R3D_N2758	0	44	0	3
69	R3D_N2685	0	44	0	3
70	R3D_N2852	0	44	0	3
71	R3D_N2765	0	44	0	3
72	R3D_N2683	0	44	0	3
73	R3D_N2684	0	44	0	3
74	R3D_N2848	0	44	0	3
75	R3D_N2849	0	44	0	3

Envelope Soil Pressures (Continued)

	Label	Max UC	Max LC	Soil Pressure[ksf]	Allowable Bearing[ksf]
76	R3D_N2771	0	44	0	3
77	R3D_N2854	0	44	0	3
78	R3D_N2855	0	44	0	3
79	R3D_N2782	0	44	0	3
80	R3D_N2773	0	44	0	3
81	R3D_N2856	0	44	0	3
82	R3D_N2828	0	44	0	3
83	R3D_N2829	0	44	0	3
84	R3D_N2711	0	44	0	3
85	R3D_N2715	0	44	0	3
86	R3D_N2716	0	44	0	3
87	R3D_N2717	0	44	0	3
88	R3D_N2713	0	44	0	3
89	R3D_N2836	0	44	0	3
90	R3D_N2700	0	44	0	3
91	R3D_N2701	0	44	0	3
92	R3D_N2692	0	44	0	3
93	R3D_N2704	0	44	0	3
94	R3D_N2705	0	44	0	3
95	R3D_N2706	0	44	0	3
96	R3D_N2837	0	44	0	3
97	R3D_N2838	0	44	0	3
98	R3D_N2739	0	44	0	3
99	R3D_N2742	0	44	0	3
100	R3D_N2743	0	44	0	3
101	R3D_N2744	0	44	0	3
102	R3D_N2741	0	44	0	3
103	R3D_N2847	0	44	0	3
104	R3D_N2722	0	44	0	3
105	R3D_N2723	0	44	0	3
106	R3D_N2724	0	44	0	3
107	R3D_N2729	0	44	0	3
108	R3D_N2730	0	44	0	3
109	R3D_N2734	0	44	0	3
110	R3D_N2735	0	44	0	3
111	R3D_N2736	0	44	0	3
112	R3D_N2792	0	44	0	3
113	R3D_N2863	0	44	0	3
114	R3D_N2694	0	44	0	3
115	R3D_N2835	0	44	0	3
116	R3D_N2791	0	44	0	3
117	R3D_N2804	0	44	0	3
118	R3D_N2767	0	44	0	3
119	R3D_N2862	0	44	0	3
120	R3D_N2797	0	44	0	3
121	R3D_N2766	0	44	0	3
122	R3D_N2759	0	44	0	3
123	R3D_N2783	0	44	0	3
124	R3D_N2772	0	44	0	3
125	R3D_N2853	0	44	0	3
126	R3D_N2693	0	44	0	3
127	R3D_N2712	0	44	0	3

Envelope Soil Pressures (Continued)

	Label	Max UC	Max LC	Soil Pressure[ksf]	Allowable Bearing[ksf]
128	R3D_N2830	0	44	0	3
129	R3D_N2831	0	44	0	3
130	R3D_N2832	0	44	0	3
131	R3D_N2833	0	44	0	3
132	R3D_N2740	0	44	0	3
133	R3D_N2845	0	44	0	3
134	R3D_N2839	0	44	0	3
135	R3D_N2840	0	44	0	3
136	R3D_N2841	0	44	0	3
137	R3D_N2842	0	44	0	3
138	R3D_N2892	0	44	0	3
139	R3D_N2893	0	44	0	3
140	R3D_N2894	0	44	0	3
141	R3D_N2897	0	44	0	3
142	R3D_N2903	0	44	0	3
143	R3D_N2878	0	44	0	3
144	R3D_N2879	0	44	0	3
145	R3D_N2880	0	44	0	3
146	R3D_N2969	0	44	0	3
147	R3D_N2966	0	44	0	3
148	R3D_N2946	0	44	0	3
149	R3D_N2909	0	44	0	3
150	R3D_N2910	0	44	0	3
151	R3D_N2911	0	44	0	3
152	R3D_N2914	0	44	0	3
153	R3D_N2924	0	44	0	3
154	R3D_N2925	0	44	0	3
155	R3D_N2926	0	44	0	3
156	R3D_N2932	0	44	0	3
157	R3D_N2933	0	44	0	3
158	R3D_N2944	0	44	0	3
159	R3D_N2945	0	44	0	3
160	R3D_N2979	0	44	0	3
161	R3D_N2980	0	44	0	3
162	R3D_N2963	0	44	0	3
163	R3D_N2967	0	44	0	3
164	R3D_N2972	0	44	0	3
165	R3D_N2908	0	44	0	3
166	R3D_N2877	0	44	0	3
167	R3D_N2964	0	44	0	3
168	R3D_N2876	0	44	0	3
169	R3D_N2973	0	44	0	3
170	R3D_N2974	0	44	0	3
171	R3D_N2976	0	44	0	3
172	R3D_N2919	0	44	0	3
173	R3D_N2920	0	44	0	3
174	R3D_N2977	0	44	0	3
175	R3D_N2978	0	44	0	3
176	R3D_N2981	0	44	0	3
177	R3D_N3038	0	44	0	3
178	R3D_N3039	0	44	0	3
179	R3D_N3014	0	44	0	3

Envelope Soil Pressures (Continued)

	Label	Max UC	Max LC	Soil Pressure[ksf]	Allowable Bearing[ksf]
180	R3D_N3106	0	44	0	3
181	R3D_N3107	0	44	0	3
182	R3D_N3071	0	44	0	3
183	R3D_N3061	0	44	0	3
184	R3D_N3062	0	44	0	3
185	R3D_N3063	0	44	0	3
186	R3D_N3056	0	44	0	3
187	R3D_N3109	0	44	0	3
188	R3D_N3078	0	44	0	3
189	R3D_N3079	0	44	0	3
190	R3D_N3080	0	44	0	3
191	R3D_N3081	0	44	0	3
192	R3D_N3082	0	44	0	3
193	R3D_N3086	0	44	0	3
194	R3D_N3087	0	44	0	3
195	R3D_N3037	0	44	0	3
196	R3D_N3100	0	44	0	3
197	R3D_N3101	0	44	0	3
198	R3D_N3102	0	44	0	3
199	R3D_N3054	0	44	0	3
200	R3D_N3095	0	44	0	3
201	R3D_N3096	0	44	0	3
202	R3D_N3035	0	44	0	3
203	R3D_N3022	0	44	0	3
204	R3D_N3092	0	44	0	3
205	R3D_N3023	0	44	0	3
206	R3D_N3104	0	44	0	3
207	R3D_N3105	0	44	0	3
208	R3D_N3072	0	44	0	3
209	R3D_N3069	0	44	0	3
210	R3D_N3055	0	44	0	3
211	R3D_N3111	0	44	0	3
212	R3D_N3113	0	44	0	3
213	R3D_N3036	0	44	0	3
214	R3D_N3016	0	44	0	3
215	R3D_N3103	0	44	0	3
216	R3D_N3015	0	44	0	3
217	R3D_N3020	0	44	0	3
218	R3D_N3021	0	44	0	3
219	R3D_N3025	0	44	0	3
220	R3D_N3099	0	44	0	3
221	R3D_N3024	0	44	0	3
222	R3D_N3094	0	44	0	3
223	R3D_N271	0.176	46	0.527	3
224	N224	0.525	46	1.575	3
225	N225	0.485	46	1.454	3
226	N226	0.445	46	1.335	3
227	N227	0.407	46	1.221	3
228	N228	0.37	46	1.111	3
229	N229	0.335	46	1.006	3
230	N230	0.303	46	0.908	3
231	N231	0.272	46	0.816	3

Envelope Soil Pressures (Continued)

	Label	Max UC	Max LC	Soil Pressure[ksf]	Allowable Bearing[ksf]
232	N232	0.244	46	0.731	3
233	N233	0.218	46	0.655	3
234	N234	0.195	46	0.586	3
235	N235	0.175	46	0.526	3
236	N236	0.162	62	0.485	3
237	N237	0.154	62	0.461	3
238	N238	0.148	62	0.443	3
239	N239	0.144	62	0.433	3
240	N240	0.144	62	0.431	3
241	N241	0.145	62	0.436	3
242	N242	0.15	62	0.451	3
243	N243	0.158	62	0.473	3
244	N244	0.168	62	0.505	3
245	N245	0.182	62	0.547	3
246	N246	0.199	62	0.598	3
247	N247	0.22	62	0.66	3
248	N248	0.273	62	0.819	3
249	N249	0.305	62	0.915	3
250	N250	0.344	46	1.033	3
251	N251	0.391	46	1.172	3
252	N252	0.439	46	1.318	3
253	N253	0.49	46	1.471	3
254	N254	0.542	46	1.627	3
255	N255	0.213	46	0.639	3
256	N256	0.208	46	0.623	3
257	N257	0.202	46	0.607	3
258	N258	0.197	46	0.591	3
259	N259	0.192	46	0.577	3
260	N260	0.188	46	0.563	3
261	N261	0.183	46	0.55	3
262	N262	0.179	46	0.538	3
263	N263	0.176	46	0.528	3
264	N264	0.173	46	0.518	3
265	N265	0.17	46	0.51	3
266	N266	0.168	46	0.503	3
267	N267	0.166	60	0.499	3
268	N268	0.167	60	0.502	3
269	N269	0.169	60	0.506	3
270	N270	0.17	60	0.511	3
271	N271	0.172	60	0.517	3
272	N272	0.175	60	0.525	3
273	N273	0.178	60	0.533	3
274	N274	0.181	60	0.543	3
275	N275	0.185	60	0.554	3
276	N276	0.189	60	0.566	3
277	N277	0.193	60	0.578	3
278	N278	0.197	60	0.592	3
279	N279	0.202	60	0.605	3
280	N280	0.207	60	0.62	3
281	N281	0.201	60	0.604	3
282	N282	0.193	60	0.578	3
283	N283	0.185	60	0.555	3

Envelope Soil Pressures (Continued)

	Label	Max UC	Max LC	Soil Pressure[ksf]	Allowable Bearing[ksf]
284	N284	0.178	60	0.535	3
285	N285	0.173	60	0.519	3
286	N286	0.169	60	0.506	3
287	N287	0.165	60	0.496	3
288	N288	0.166	46	0.497	3
289	N289	0.168	46	0.503	3
290	N290	0.17	46	0.511	3
291	N291	0.174	46	0.522	3
292	N292	0.178	46	0.535	3
293	N293	0.183	46	0.55	3
294	N294	0.189	46	0.568	3
295	N295	0.196	46	0.587	3
296	N296	0.203	46	0.609	3
297	N297	0.211	46	0.633	3
298	N298	0.22	46	0.659	3
299	N299	0.229	46	0.686	3
300	N300	0.239	46	0.716	3
301	N301	0.249	46	0.746	3
302	N302	0.259	46	0.777	3
303	N303	0.27	46	0.809	3
304	N304	0.28	46	0.841	3
305	N305	0.291	46	0.873	3
306	N306	0.301	46	0.904	3
307	N307	0.311	46	0.934	3
308	N308	0.32	46	0.961	3
309	N309	0.328	46	0.985	3
310	N310	0.335	46	1.005	3
311	N311	0.34	46	1.02	3
312	N312	0.342	46	1.026	3
313	N313	0.339	46	1.018	3
314	N314	0.335	62	1.005	3
315	N315	0.33	62	0.989	3
316	N316	0.323	62	0.969	3
317	N317	0.315	62	0.945	3
318	N318	0.306	62	0.919	3
319	N319	0.297	62	0.892	3
320	N320	0.288	62	0.863	3
321	N321	0.278	62	0.833	3
322	N322	0.268	62	0.804	3
323	N323	0.259	62	0.776	3
324	N324	0.249	62	0.748	3
325	N325	0.24	62	0.721	3
326	N326	0.232	62	0.696	3
327	N327	0.224	62	0.673	3
328	N328	0.217	62	0.652	3
329	N329	0.211	62	0.633	3
330	N330	0.205	62	0.616	3
331	N331	0.2	62	0.601	3
332	N332	0.196	62	0.589	3
333	N333	0.193	46	0.579	3
334	N334	0.191	46	0.574	3
335	N335	0.191	46	0.573	3

Envelope Soil Pressures (Continued)

	Label	Max UC	Max LC	Soil Pressure[ksf]	Allowable Bearing[ksf]
336	N336	0.191	46	0.573	3
337	N337	0.192	46	0.576	3
338	N338	0.194	46	0.582	3
339	N339	0.196	46	0.589	3
340	N340	0.2	46	0.599	3
341	N341	0.204	46	0.611	3
342	N342	0.208	46	0.625	3
343	N343	0.213	46	0.64	3
344	N344	0.219	46	0.656	3
345	N345	0.224	46	0.673	3
346	N346	0.23	46	0.691	3
347	N347	0.237	46	0.71	3
348	N348	0.243	46	0.728	3
349	N349	0.248	46	0.745	3
350	N350	0.254	46	0.762	3
351	N351	0.259	46	0.777	3
352	N352	0.263	46	0.789	3
353	N353	0.266	46	0.799	3
354	N354	0.266	46	0.797	3
355	N355	0.264	46	0.793	3
356	N356	0.262	46	0.786	3
357	N357	0.26	46	0.779	3
358	N358	0.257	46	0.771	3
359	N359	0.254	46	0.763	3
360	N360	0.251	46	0.754	3
361	N361	0.249	46	0.747	3
362	N362	0.246	46	0.739	3
363	N363	0.244	46	0.733	3
364	N364	0.243	46	0.728	3
365	N365	0.241	46	0.724	3
366	N366	0.24	46	0.72	3
367	N367	0.239	46	0.718	3
368	N368	0.239	46	0.717	3
369	N369	0.239	60	0.717	3
370	N370	0.24	60	0.72	3
371	N371	0.241	60	0.723	3
372	N372	0.242	60	0.726	3
373	N373	0.242	60	0.727	3
374	N374	0.242	60	0.727	3
375	N375	0.242	60	0.725	3
376	N376	0.237	60	0.712	3
377	N377	0.234	46	0.703	3
378	N378	0.232	46	0.697	3
379	N379	0.23	46	0.69	3
380	N380	0.228	46	0.685	3
381	N381	0.227	46	0.68	3
382	N382	0.226	46	0.677	3
383	N383	0.225	46	0.675	3
384	N384	0.225	46	0.676	3
385	N385	0.226	46	0.679	3
386	N386	0.228	46	0.684	3
387	N387	0.23	46	0.691	3

Envelope Soil Pressures (Continued)

	Label	Max UC	Max LC	Soil Pressure[ksf]	Allowable Bearing[ksf]
388	N388	0.234	46	0.702	3
389	N389	0.238	46	0.714	3
390	N390	0.243	46	0.73	3
391	N391	0.249	46	0.747	3
392	N392	0.256	46	0.767	3
393	N393	0.264	62	0.791	3
394	N394	0.275	62	0.826	3
395	N395	0.283	62	0.848	3
396	N396	0.278	62	0.834	3
397	N397	0.274	62	0.822	3
398	N398	0.27	62	0.811	3
399	N399	0.268	46	0.805	3
400	N400	0.268	46	0.805	3
401	N401	0.27	46	0.809	3
402	N402	0.272	46	0.815	3
403	N403	0.275	46	0.824	3
404	N404	0.279	46	0.836	3
405	N405	0.284	46	0.851	3
406	N406	0.29	46	0.869	3
407	N407	0.296	46	0.888	3
408	N408	0.303	46	0.91	3
409	N409	0.311	46	0.932	3
410	N410	0.319	46	0.956	3
411	N411	0.327	46	0.981	3
412	N412	0.335	46	1.004	3
413	N413	0.342	46	1.027	3
414	N414	0.355	46	1.065	3
415	N415	0.359	46	1.078	3
416	N416	0.364	46	1.091	3
417	N417	0.367	46	1.102	3
418	N418	0.371	46	1.113	3
419	N419	0.375	46	1.125	3
420	N420	0.379	46	1.137	3
421	N421	0.383	46	1.15	3
422	N422	0.388	46	1.165	3
423	N423	0.393	46	1.18	3
424	N424	0.399	46	1.196	3
425	N425	0.404	46	1.213	3
426	N426	0.41	46	1.23	3
427	N427	0.415	46	1.246	3
428	N428	0.42	46	1.26	3
429	N429	0.424	46	1.272	3
430	N430	0.427	46	1.281	3
431	N431	0.428	46	1.284	3
432	N432	0.423	46	1.268	3
433	N433	0.416	46	1.248	3
434	N434	0.408	46	1.223	3
435	N435	0.398	46	1.194	3
436	N436	0.388	46	1.164	3
437	N437	0.377	46	1.132	3
438	N438	0.367	46	1.1	3
439	N439	0.356	46	1.068	3

Envelope Soil Pressures (Continued)

	Label	Max UC	Max LC	Soil Pressure[ksf]	Allowable Bearing[ksf]
440	N440	0.346	46	1.038	3
441	N441	0.337	46	1.01	3
442	N442	0.328	46	0.983	3
443	N443	0.32	46	0.96	3
444	N444	0.313	46	0.939	3
445	N445	0.307	46	0.921	3
446	N446	0.302	46	0.906	3
447	N447	0.298	46	0.894	3
448	N448	0.295	46	0.884	3
449	N449	0.292	46	0.877	3
450	N450	0.291	46	0.872	3
451	N451	0.29	46	0.869	3
452	N452	0.289	46	0.868	3
453	N453	0.289	46	0.867	3
454	N454	0.288	46	0.863	3
455	N455	0.287	46	0.86	3
456	N456	0.285	46	0.856	3
457	N457	0.285	46	0.854	3
458	N458	0.284	46	0.852	3
459	N459	0.284	46	0.851	3
460	N460	0.284	46	0.851	3
461	N461	0.284	46	0.852	3
462	N462	0.285	46	0.854	3
463	N463	0.286	46	0.857	3
464	N464	0.287	46	0.861	3
465	N465	0.288	46	0.865	3
466	N466	0.29	46	0.87	3
467	N467	0.291	46	0.874	3
468	N468	0.293	46	0.878	3
469	N469	0.294	46	0.881	3
470	N470	0.294	46	0.881	3
471	N471	0.291	46	0.872	3
472	N472	0.287	46	0.862	3
473	N473	0.283	46	0.85	3
474	N474	0.279	46	0.837	3
475	N475	0.274	46	0.822	3
476	N476	0.269	46	0.808	3
477	N477	0.264	46	0.793	3
478	N478	0.26	46	0.779	3
479	N479	0.255	46	0.765	3
480	N480	0.251	46	0.752	3
481	N481	0.247	46	0.74	3
482	N482	0.243	46	0.729	3
483	N483	0.24	46	0.719	3
484	N484	0.236	46	0.709	3
485	N485	0.233	46	0.7	3
486	N486	0.217	46	0.652	3
487	N487	0.203	46	0.609	3
488	N488	0.188	46	0.565	3
489	N489	0.173	46	0.519	3
490	N490	0.158	46	0.473	3
491	N491	0.142	46	0.426	3

Beam Section Forces

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
1	1	B1	1	-3.666	0	-0.304
2			2	-1.23	0	14.52
3			3	-1.296	0	21.386
4			4	-2.919	0	34.291
5			5	-4.675	0	59.076
6	1	B2	1	7.736	0	59.582
7			2	7.66	0	43.561
8			3	8.009	0	27.487
9			4	8.852	0	10.437
10			5	9.47	0	-8.64
11	1	B3	1	1.909	-0.424	1.521
12			2	0.685	-0.424	-7.234
13			3	-0.056	-0.424	-9.058
14			4	-0.758	-0.424	-6.541
15			5	-1.864	-0.424	2.344
16	1	B4	1	1.828	1.071	9.147
17			2	0.47	1.071	0.164
18			3	-0.077	1.071	-0.439
19			4	0.56	1.071	-1.445
20			5	1.872	1.071	-11.083
21	1	B5	1	-2.63	0.517	-16.858
22			2	-0.74	0.517	0.542
23			3	0.095	0.517	3.088
24			4	0.234	0.517	1.204
25			5	0.317	0.517	-1.673
26	1	B6	1	-0.058	0.105	-1.756
27			2	-0.024	0.105	-1.519
28			3	-0.095	0.105	-1.265
29			4	-0.35	0.105	-0.137
30			5	-0.73	0.105	3.112
31	1	B7	1	0.955	0.044	6.122
32			2	0.556	0.044	2.17
33			3	0.072	0.044	0.802
34			4	-0.42	0.044	1.772
35			5	-0.662	0.044	4.63
36	1	B8	1	0.352	2.658	4.682
37			2	0.207	2.658	3.295
38			3	0.153	2.658	2.518
39			4	0.355	2.658	1.45
40			5	0.722	2.658	-1.192
41	1	B9	1	-1.123	5.405	-3.107
42			2	-0.493	5.405	1.07
43			3	0.568	5.405	0.88
44			4	1.969	5.405	-5.121
45			5	3.295	5.405	-18.392
46	1	B10	1	-3.389	-6.479	-18.979
47			2	-1.876	-6.479	-3.33
48			3	-0.648	-6.479	3.642
49			4	-0.035	-6.479	5.494
50			5	0.196	-6.479	4.924
51	1	B11	1	0.339	-1.863	4.202
52			2	0.465	-1.863	2.399

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
53			3	0.668	-1.863	-0.107
54			4	0.886	-1.863	-3.587
55			5	1.123	-1.863	-8.242
56	1	B12	1	-0.628	5.42	-8.074
57			2	-0.514	5.42	-5.787
58			3	-0.563	5.42	-3.761
59			4	-0.901	5.42	-1.07
60			5	-1.355	5.42	3.444
61	1	B13	1	0.69	1.245	-7.947
62			2	0.451	1.245	-9.085
63			3	-0.11	1.245	-9.344
64			4	-3.439	1.245	-4.476
65			5	-3.882	1.245	2.677
66	2	B1	1	-7.631	0	-2.737
67			2	-2.615	0	28.841
68			3	-1.676	0	40.779
69			4	-2.973	0	54.92
70			5	-4.034	0	78.05
71	2	B2	1	9.295	0	79.768
72			2	9.843	0	60.202
73			3	11.047	0	39.171
74			4	13.005	0	15.25
75			5	14.285	0	-13.166
76	2	B3	1	-0.105	0.305	-0.199
77			2	0.029	0.305	0.03
78			3	0.053	0.305	-0.341
79			4	-0.079	0.305	-0.369
80			5	-0.342	0.305	1.047
81	2	B4	1	0.49	0.801	9.896
82			2	0.058	0.801	7.716
83			3	0.297	0.801	7.416
84			4	2.324	0.801	-0.832
85			5	5.879	0.801	-33.656
86	2	B5	1	-6.833	1.092	-42.116
87			2	-1.99	1.092	3.229
88			3	0.115	1.092	11.159
89			4	1.076	1.092	5.505
90			5	3.223	1.092	-16.306
91	2	B6	1	-3.125	-0.477	-16.088
92			2	-1.712	-0.477	-1.324
93			3	-0.314	-0.477	4.003
94			4	1.01	-0.477	1.765
95			5	1.895	-0.477	-7.156
96	2	B7	1	-1.919	0.562	-2.23
97			2	-1.276	0.562	6.089
98			3	-0.512	0.562	10.382
99			4	0.725	0.562	10.144
100			5	2.03	0.562	3.112
101	2	B8	1	-2.401	1.578	5.976
102			2	-0.982	1.578	14.404
103			3	1.033	1.578	14.358
104			4	3.1	1.578	5.255

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
105			5	5.227	1.578	-15.503
106	2	B9	1	-5.455	6.387	-18.873
107			2	-2.775	6.387	2.096
108			3	0.918	6.387	6.428
109			4	5.156	6.387	-7.907
110			5	8.947	6.387	-43.52
111	2	B10	1	-9.362	-10.326	-44.75
112			2	-5.005	-10.326	-1.966
113			3	-1.019	-10.326	14.703
114			4	2.006	-10.326	11.897
115			5	4.361	-10.326	-7.254
116	2	B11	1	-3.276	-2.705	-8.293
117			2	-1.412	-2.705	2.877
118			3	0.896	-2.705	4.651
119			4	2.809	-2.705	-3.299
120			5	4.799	-2.705	-21.173
121	2	B12	1	-4.395	11.183	-20.565
122			2	-3.006	11.183	-5.668
123			3	-1.448	11.183	2.416
124			4	-0.253	11.183	5.136
125			5	0.637	11.183	3.829
126	2	B13	1	-1.905	1.094	-15.596
127			2	-1.762	1.094	-12.024
128			3	-1.67	1.094	-8.75
129			4	-3.529	1.094	-2.783
130			5	-3.733	1.094	4.279
131	3	B1	1	-3.134	0	-0.618
132			2	-1.073	0	12.13
133			3	-1.129	0	18.14
134			4	-2.504	0	29.266
135			5	-3.986	0	50.443
136	3	B2	1	6.537	0	50.421
137			2	6.479	0	36.88
138			3	6.784	0	23.28
139			4	7.51	0	8.831
140			5	8.041	0	-7.361
141	3	B3	1	1.644	-0.418	1.3
142			2	0.595	-0.418	-6.262
143			3	-0.044	-0.418	-7.873
144			4	-0.663	-0.418	-5.695
145			5	-1.643	-0.418	2.121
146	3	B4	1	1.561	0.997	7.4
147			2	0.374	0.997	-0.134
148			3	-0.09	0.997	-0.425
149			4	0.475	0.997	-1.16
150			5	1.625	0.997	-9.476
151	3	B5	1	-2.326	0.543	-14.983
152			2	-0.658	0.543	0.434
153			3	0.082	0.543	2.713
154			4	0.206	0.543	1.058
155			5	0.275	0.543	-1.451
156	3	B6	1	-0.059	0.29	-1.561

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
157			2	-0.039	0.29	-1.286
158			3	-0.123	0.29	-0.902
159			4	-0.369	0.29	0.39
160			5	-0.709	0.29	3.654
161	3	B7	1	0.753	0.443	6.591
162			2	0.432	0.443	3.503
163			3	0.124	0.443	2.276
164			4	0.019	0.443	2.081
165			5	0.17	0.443	1.653
166	3	B8	1	-0.378	0.952	3.567
167			2	-0.141	0.952	4.859
168			3	0.237	0.952	4.679
169			4	0.733	0.952	2.59
170			5	1.33	0.952	-2.528
171	3	B9	1	-1.641	3.894	-4.792
172			2	-0.777	3.894	1.412
173			3	0.556	3.894	1.918
174			4	2.231	3.894	-4.662
175			5	3.795	3.894	-19.86
176	3	B10	1	-4.013	-5.959	-20.445
177			2	-2.189	-5.959	-1.982
178			3	-0.554	-5.959	5.622
179			4	0.595	-5.959	5.488
180			5	1.418	-5.959	-0.594
181	3	B11	1	-0.894	-0.92	-1.336
182			2	-0.255	-0.92	1.45
183			3	0.553	-0.92	0.987
184			4	1.234	-0.92	-2.913
185			5	1.931	-0.92	-10.325
186	3	B12	1	-1.51	7.273	-9.874
187			2	-1.068	7.273	-4.695
188			3	-0.672	7.273	-1.463
189			4	-0.553	7.273	0.833
190			5	-0.688	7.273	3.305
191	3	B13	1	-0.175	1.093	-10.12
192			2	-0.297	1.093	-9.679
193			3	-0.649	1.093	-8.728
194			4	-3.28	1.093	-3.775
195			5	-3.633	1.093	2.97
196	4	B1	1	-3.134	0	-0.618
197			2	-1.073	0	12.13
198			3	-1.129	0	18.14
199			4	-2.504	0	29.266
200			5	-3.986	0	50.443
201	4	B2	1	6.537	0	50.421
202			2	6.479	0	36.88
203			3	6.784	0	23.28
204			4	7.51	0	8.831
205			5	8.041	0	-7.361
206	4	B3	1	1.644	-0.418	1.3
207			2	0.595	-0.418	-6.262
208			3	-0.044	-0.418	-7.873

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
209			4	-0.663	-0.418	-5.695
210			5	-1.643	-0.418	2.121
211	4	B4	1	1.561	0.997	7.4
212			2	0.374	0.997	-0.134
213			3	-0.09	0.997	-0.425
214			4	0.475	0.997	-1.16
215			5	1.625	0.997	-9.476
216	4	B5	1	-2.326	0.543	-14.983
217			2	-0.658	0.543	0.434
218			3	0.082	0.543	2.713
219			4	0.206	0.543	1.058
220			5	0.275	0.543	-1.451
221	4	B6	1	-0.059	0.29	-1.561
222			2	-0.039	0.29	-1.286
223			3	-0.123	0.29	-0.902
224			4	-0.369	0.29	0.39
225			5	-0.709	0.29	3.654
226	4	B7	1	0.753	0.443	6.591
227			2	0.432	0.443	3.503
228			3	0.124	0.443	2.276
229			4	0.019	0.443	2.081
230			5	0.17	0.443	1.653
231	4	B8	1	-0.378	0.952	3.567
232			2	-0.141	0.952	4.859
233			3	0.237	0.952	4.679
234			4	0.733	0.952	2.59
235			5	1.33	0.952	-2.528
236	4	B9	1	-1.641	3.894	-4.792
237			2	-0.777	3.894	1.412
238			3	0.556	3.894	1.918
239			4	2.231	3.894	-4.662
240			5	3.795	3.894	-19.86
241	4	B10	1	-4.013	-5.959	-20.445
242			2	-2.189	-5.959	-1.982
243			3	-0.554	-5.959	5.622
244			4	0.595	-5.959	5.488
245			5	1.418	-5.959	-0.594
246	4	B11	1	-0.894	-0.92	-1.336
247			2	-0.255	-0.92	1.45
248			3	0.553	-0.92	0.987
249			4	1.234	-0.92	-2.913
250			5	1.931	-0.92	-10.325
251	4	B12	1	-1.51	7.273	-9.874
252			2	-1.068	7.273	-4.695
253			3	-0.672	7.273	-1.463
254			4	-0.553	7.273	0.833
255			5	-0.688	7.273	3.305
256	4	B13	1	-0.175	1.093	-10.12
257			2	-0.297	1.093	-9.679
258			3	-0.649	1.093	-8.728
259			4	-3.28	1.093	-3.775
260			5	-3.633	1.093	2.97

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
261	5	B1	1	-17.528	0	-7.153
262			2	-5.994	0	65.822
263			3	-2.869	0	90.716
264			4	-4.004	0	111.445
265			5	-4.153	0	138.919
266	5	B2	1	15.43	0	144.777
267			2	17.301	0	111.825
268			3	20.479	0	74.325
269			4	25.148	0	29.449
270			5	28.075	0	-25.97
271	5	B3	1	-3.96	1.931	-3.493
272			2	-1.223	1.931	13.913
273			3	0.264	1.931	16.303
274			4	1.215	1.931	11.411
275			5	2.553	1.931	-1.39
276	5	B4	1	-1.864	0.315	15.69
277			2	-0.616	0.315	25.174
278			3	1.146	0.315	24.7
279			4	6.395	0.315	-0.166
280			5	15.223	0.315	-86.87
281	5	B5	1	-16.698	2.232	-101.442
282			2	-4.903	2.232	9.401
283			3	0.185	2.232	29.692
284			4	2.988	2.232	15.271
285			5	9.707	2.232	-48.977
286	5	B6	1	-9.866	-2.303	-48.011
287			2	-5.385	-2.303	-1.42
288			3	-0.763	-2.303	14.668
289			4	4.091	-2.303	4.439
290			5	7.682	-2.303	-31.617
291	5	B7	1	-7.752	0.543	-22.558
292			2	-5.003	0.543	10.648
293			3	-1.954	0.543	27.123
294			4	2.017	0.543	27.497
295			5	5.614	0.543	7.915
296	5	B8	1	-6.384	3.865	11.583
297			2	-2.615	3.865	34.006
298			3	2.713	3.865	33.918
299			4	8.01	3.865	10.191
300			5	13.311	3.865	-43.013
301	5	B9	1	-13.378	12.381	-48.388
302			2	-6.928	12.381	3.26
303			3	1.668	12.381	15.55
304			4	11.219	12.381	-14.859
305			5	19.612	12.381	-92.754
306	5	B10	1	-20.368	-19.655	-95.35
307			2	-10.803	-19.655	-2.529
308			3	-2.043	-19.655	32.963
309			4	4.681	-19.655	25.462
310			5	9.977	-19.655	-18.596
311	5	B11	1	-7.701	-7.095	-20.203
312			2	-3.506	-7.095	6.434

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
313			3	1.665	-7.095	11.97
314			4	5.947	-7.095	-4.259
315			5	10.443	-7.095	-42.796
316	5	B12	1	-10.074	17.981	-42.054
317			2	-6.836	17.981	-7.992
318			3	-3.002	17.981	9.738
319			4	1.05	17.981	13.398
320			5	3.227	17.981	4.739
321	5	B13	1	-5.183	1.078	-25.368
322			2	-4.514	1.078	-15.882
323			3	-3.533	1.078	-8.303
324			4	-3.848	1.078	-0.643
325			5	-3.741	1.078	6.695
326	6	B1	1	-17.855	0	10.114
327			2	-4.988	0	80.635
328			3	-1.846	0	98.727
329			4	-3.691	0	115.114
330			5	-4.975	0	144.446
331	6	B2	1	19.541	0	171.671
332			2	20.963	0	130.394
333			3	23.73	0	85.488
334			4	28.053	0	34.032
335			5	30.835	0	-27.285
336	6	B3	1	-4.276	4.131	-3.381
337			2	-1.579	4.131	16.384
338			3	0.049	4.131	20.914
339			4	1.651	4.131	15.756
340			5	4.261	4.131	-4.237
341	6	B4	1	-1.641	-1.061	33.298
342			2	0.668	-1.061	36.225
343			3	2.043	-1.061	26.738
344			4	6.608	-1.061	-3.276
345			5	14.413	-1.061	-87.85
346	6	B5	1	-13.826	1.403	-80.083
347			2	-3.936	1.403	10.563
348			3	0.135	1.403	26.877
349			4	2.727	1.403	14.333
350			5	9.444	1.403	-47.042
351	6	B6	1	-9.896	-2.912	-45.728
352			2	-5.299	-2.912	0.743
353			3	0.484	-2.912	15.14
354			4	5.374	-2.912	-0.153
355			5	9.742	-2.912	-46.441
356	6	B7	1	-8.263	-0.5	-26.547
357			2	-4.994	-0.5	7.912
358			3	-1.568	-0.5	23.014
359			4	2.298	-0.5	21.279
360			5	5.348	-0.5	1.507
361	6	B8	1	-5.017	5.258	14.458
362			2	-1.934	5.258	31.809
363			3	2.725	5.258	30.168
364			4	7.692	5.258	7.1

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
365			5	12.801	5.258	-44.013
366	6	B9	1	-13.054	13.579	-47.525
367			2	-6.766	13.579	2.899
368			3	1.665	13.579	14.828
369			4	11.078	13.579	-15.234
370			5	19.363	13.579	-92.139
371	6	B10	1	-20.122	-18.936	-94.673
372			2	-10.68	-18.936	-2.957
373			3	-2.059	-18.936	32.234
374			4	4.504	-18.936	25.261
375			5	9.629	-18.936	-17.236
376	6	B11	1	-7.38	-6.452	-18.806
377			2	-3.337	-6.452	6.672
378			3	1.647	-6.452	11.817
379			4	5.781	-6.452	-4.031
380			5	10.133	-6.452	-41.442
381	6	B12	1	-9.704	17.684	-40.612
382			2	-6.575	17.684	-7.824
383			3	-2.89	17.684	9.226
384			4	0.965	17.684	12.825
385			5	3.009	17.684	4.776
386	6	B13	1	-4.449	1.117	-24.464
387			2	-3.82	1.117	-16.366
388			3	-2.886	1.117	-10.074
389			4	-4.28	1.117	-1.981
390			5	-4.163	1.117	6.181
391	7	B1	1	-17.541	0	-6.519
392			2	-5.958	0	66.369
393			3	-2.832	0	91.019
394			4	-3.994	0	111.598
395			5	-4.185	0	139.151
396	7	B2	1	15.584	0	145.798
397			2	17.44	0	112.534
398			3	20.604	0	74.753
399			4	25.261	0	29.624
400			5	28.183	0	-26.025
401	7	B3	1	-3.976	2.041	-3.487
402			2	-1.241	2.041	14.037
403			3	0.252	2.041	16.536
404			4	1.236	2.041	11.635
405			5	2.638	2.041	-1.519
406	7	B4	1	-1.853	0.262	16.57
407			2	-0.559	0.262	25.727
408			3	1.191	0.262	24.803
409			4	6.406	0.262	-0.322
410			5	15.182	0.262	-86.921
411	7	B5	1	-16.554	2.219	-100.376
412			2	-4.855	2.219	9.455
413			3	0.181	2.219	29.551
414			4	2.971	2.219	15.248
415			5	9.689	2.219	-48.805
416	7	B6	1	-9.866	-2.255	-47.824

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
417			2	-5.377	-2.255	-1.258
418			3	-0.728	-2.255	14.693
419			4	4.185	-2.255	4.089
420			5	7.83	-2.255	-32.705
421	7	B7	1	-7.799	0.646	-22.911
422			2	-5.016	0.646	10.445
423			3	-1.946	0.646	26.91
424			4	2.007	0.646	27.263
425			5	5.56	0.646	7.837
426	7	B8	1	-6.176	4.256	12.441
427			2	-2.478	4.256	33.994
428			3	2.716	4.256	33.538
429			4	7.868	4.256	10.075
430			5	13.024	4.256	-42.057
431	7	B9	1	-12.942	12.596	-46.112
432			2	-6.663	12.596	3.764
433			3	1.729	12.596	15.272
434			4	11.089	12.596	-14.986
435			5	19.332	12.596	-91.836
436	7	B10	1	-20.04	-19.53	-94.362
437			2	-10.642	-19.53	-3.005
438			3	-2.059	-19.53	32.086
439			4	4.475	-19.53	25.2
440			5	9.579	-19.53	-17.058
441	7	B11	1	-7.33	-7.307	-18.629
442			2	-3.3	-7.307	6.647
443			3	1.672	-7.307	11.648
444			4	5.8	-7.307	-4.304
445			5	10.142	-7.307	-41.78
446	7	B12	1	-9.77	17.161	-41.132
447			2	-6.64	17.161	-8.078
448			3	-2.932	17.161	9.184
449			4	0.981	17.161	12.848
450			5	3.078	17.161	4.63
451	7	B13	1	-4.94	1.071	-24.332
452			2	-4.296	1.071	-15.295
453			3	-3.357	1.071	-8.09
454			4	-3.747	1.071	-0.67
455			5	-3.648	1.071	6.48
456	8	B1	1	-17.206	0	-24.197
457			2	-6.988	0	51.206
458			3	-3.88	0	82.824
459			4	-4.315	0	107.855
460			5	-3.345	0	133.513
461	8	B2	1	11.377	0	118.289
462			2	13.693	0	93.543
463			3	17.279	0	63.337
464			4	22.292	0	24.936
465			5	25.362	0	-24.683
466	8	B3	1	-3.649	-0.234	-3.602
467			2	-0.872	-0.234	11.48
468			3	0.475	-0.234	11.76

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
469			4	0.786	-0.234	7.121
470			5	0.874	-0.234	1.387
471	8	B4	1	-2.083	1.641	-1.642
472			2	-1.743	1.641	14.296
473			3	0.263	1.641	22.693
474			4	6.186	1.641	2.895
475			5	16.02	1.641	-85.906
476	8	B5	1	-19.524	2.999	-122.467
477			2	-5.855	2.999	8.258
478			3	0.234	2.999	32.466
479			4	3.246	2.999	16.192
480			5	9.969	2.999	-50.901
481	8	B6	1	-9.83	-1.819	-50.259
482			2	-5.462	-1.819	-3.593
483			3	-1.192	-1.819	14.082
484			4	2.853	-1.819	8.714
485			5	5.675	-1.819	-17.409
486	8	B7	1	-7.2	1.333	-19.408
487			2	-4.985	1.333	12.356
488			3	-2.378	1.333	30.24
489			4	1.499	1.333	33.364
490			5	5.418	1.333	15.77
491	8	B8	1	-7.326	3.299	8.987
492			2	-3.096	3.299	34.932
493			3	2.635	3.299	36.092
494			4	8.06	3.299	12.44
495			5	13.377	3.299	-41.071
496	8	B9	1	-13.278	11.645	-47.92
497			2	-6.868	11.645	3.312
498			3	1.627	11.645	15.544
499			4	11.022	11.645	-14.314
500			5	19.254	11.645	-90.809
501	8	B10	1	-19.922	-20.121	-93.416
502			2	-10.563	-20.121	-2.647
503			3	-2.029	-20.121	32.129
504			4	4.466	-20.121	25.177
505			5	9.544	-20.121	-16.947
506	8	B11	1	-7.282	-8.161	-18.513
507			2	-3.267	-8.161	6.576
508			3	1.694	-8.161	11.45
509			4	5.815	-8.161	-4.588
510			5	10.149	-8.161	-42.113
511	8	B12	1	-9.837	16.636	-41.65
512			2	-6.705	16.636	-8.325
513			3	-2.974	16.636	9.15
514			4	0.999	16.636	12.878
515			5	3.148	16.636	4.483
516	8	B13	1	-5.438	1.023	-24.205
517			2	-4.78	1.023	-14.215
518			3	-3.834	1.023	-6.083
519			4	-3.209	1.023	0.656
520			5	-3.129	1.023	6.785

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
521	9	B1	1	-17.521	0	-7.563
522			2	-6.018	0	65.472
523			3	-2.894	0	90.532
524			4	-4.012	0	111.371
525			5	-4.135	0	138.808
526	9	B2	1	15.334	0	144.162
527			2	17.217	0	111.403
528			3	20.405	0	74.072
529			4	25.084	0	29.345
530			5	28.014	0	-25.943
531	9	B3	1	-3.949	1.855	-3.496
532			2	-1.21	1.855	13.827
533			3	0.272	1.855	16.138
534			4	1.202	1.855	11.242
535			5	2.498	1.855	-1.332
536	9	B4	1	-1.871	0.318	15.086
537			2	-0.656	0.318	24.793
538			3	1.115	0.318	24.629
539			4	6.388	0.318	-0.059
540			5	15.25	0.318	-86.835
541	9	B5	1	-16.797	2.183	-102.174
542			2	-4.937	2.183	9.366
543			3	0.188	2.183	29.791
544			4	3.002	2.183	15.277
545			5	9.724	2.183	-49.139
546	9	B6	1	-9.861	-2.476	-48.162
547			2	-5.384	-2.476	-1.592
548			3	-0.775	-2.476	14.529
549			4	4.041	-2.476	4.472
550			5	7.587	-2.476	-31.145
551	9	B7	1	-7.664	0.187	-23.045
552			2	-4.963	0.187	9.823
553			3	-2	0.187	26.343
554			4	1.79	0.187	27.38
555			5	5.206	0.187	9.44
556	9	B8	1	-6.166	4.302	11.004
557			2	-2.553	4.302	32.746
558			3	2.644	4.302	32.722
559			4	7.885	4.302	9.465
560			5	13.154	4.302	-43.027
561	9	B9	1	-13.39	12.628	-49.333
562			2	-6.972	12.628	2.447
563			3	1.563	12.628	15.1
564			4	11.01	12.628	-14.561
565			5	19.285	12.628	-91.112
566	9	B10	1	-20.005	-19.526	-93.726
567			2	-10.602	-19.526	-2.599
568			3	-2.028	-19.526	32.277
569			4	4.496	-19.526	25.238
570			5	9.595	-19.526	-17.125
571	9	B11	1	-7.332	-7.306	-18.69
572			2	-3.304	-7.306	6.601

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
573			3	1.669	-7.306	11.619
574			4	5.796	-7.306	-4.315
575			5	10.139	-7.306	-41.775
576	9	B12	1	-9.771	17.159	-41.13
577			2	-6.641	17.159	-8.072
578			3	-2.932	17.159	9.191
579			4	0.982	17.159	12.855
580			5	3.08	17.159	4.629
581	9	B13	1	-4.947	1.069	-24.337
582			2	-4.304	1.069	-15.286
583			3	-3.363	1.069	-8.068
584			4	-3.742	1.069	-0.654
585			5	-3.643	1.069	6.486
586	10	B1	1	-3.14	0	-0.373
587			2	-1.06	0	12.347
588			3	-1.116	0	18.271
589			4	-2.502	0	29.353
590			5	-4	0	50.576
591	10	B2	1	6.601	0	50.867
592			2	6.539	0	37.195
593			3	6.84	0	23.473
594			4	7.563	0	8.91
595			5	8.093	0	-7.392
596	10	B3	1	1.639	-0.38	1.302
597			2	0.59	-0.38	-6.22
598			3	-0.047	-0.38	-7.798
599			4	-0.654	-0.38	-5.635
600			5	-1.612	-0.38	2.044
601	10	B4	1	1.565	0.942	7.703
602			2	0.394	0.942	0.055
603			3	-0.073	0.942	-0.392
604			4	0.479	0.942	-1.214
605			5	1.611	0.942	-9.492
606	10	B5	1	-2.277	0.474	-14.616
607			2	-0.642	0.474	0.455
608			3	0.082	0.474	2.668
609			4	0.202	0.474	1.04
610			5	0.273	0.474	-1.439
611	10	B6	1	-0.053	0.153	-1.522
612			2	-0.026	0.153	-1.297
613			3	-0.094	0.153	-1.027
614			4	-0.322	0.153	0.041
615			5	-0.652	0.153	2.976
616	10	B7	1	0.798	0.164	5.667
617			2	0.463	0.164	2.373
618			3	0.081	0.164	1.184
619			4	-0.242	0.164	1.695
620			5	-0.337	0.164	3.245
621	10	B8	1	0.089	1.864	3.874
622			2	0.08	1.864	3.46
623			3	0.164	1.864	2.946
624			4	0.438	1.864	1.664

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
625			5	0.841	1.864	-1.492
626	10	B9	1	-1.175	4.402	-3.328
627			2	-0.533	4.402	1.072
628			3	0.508	4.402	1.118
629			4	1.857	4.402	-4.475
630			5	3.128	4.402	-17.045
631	10	B10	1	-3.251	-5.68	-17.573
632			2	-1.79	-5.68	-2.582
633			3	-0.555	-5.68	3.903
634			4	0.165	-5.68	4.953
635			5	0.559	-5.68	2.716
636	10	B11	1	-0.08	-1.385	2.058
637			2	0.194	-1.385	1.866
638			3	0.566	-1.385	0.246
639			4	0.908	-1.385	-3.024
640			5	1.265	-1.385	-8.084
641	10	B12	1	-0.842	5.467	-7.844
642			2	-0.637	5.467	-4.877
643			3	-0.523	5.467	-2.673
644			4	-0.704	5.467	-0.371
645			5	-1.014	5.467	3.062
646	10	B13	1	0.352	1.075	-7.845
647			2	0.173	1.075	-8.378
648			3	-0.268	1.075	-8.234
649			4	-3.051	1.075	-3.817
650			5	-3.423	1.075	2.506
651	11	B1	1	-3.467	0	16.894
652			2	-0.054	0	27.16
653			3	-0.094	0	26.283
654			4	-2.19	0	33.022
655			5	-4.822	0	56.103
656	11	B2	1	10.713	0	77.761
657			2	10.414	0	55.763
658			3	10.09	0	34.636
659			4	10.467	0	13.494
660			5	10.854	0	-8.706
661	11	B3	1	1.323	1.82	1.414
662			2	0.233	1.82	-3.749
663			3	-0.261	1.82	-3.187
664			4	-0.217	1.82	-1.289
665			5	0.096	1.82	-0.803
666	11	B4	1	1.788	-0.433	25.31
667			2	1.538	-0.433	11.105
668			3	0.886	-0.433	1.646
669			4	0.691	-0.433	-4.324
670			5	0.801	-0.433	-10.472
671	11	B5	1	0.595	-0.355	6.743
672			2	0.325	-0.355	1.618
673			3	0.05	-0.355	-0.148
674			4	-0.059	-0.355	0.102
675			5	0.009	-0.355	0.496
676	11	B6	1	-0.083	-0.456	0.761

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
677			2	0.102	-0.456	0.866
678			3	0.449	-0.456	-0.555
679			4	0.961	-0.456	-4.551
680			5	1.408	-0.456	-11.849
681	11	B7	1	0.288	-0.879	1.678
682			2	0.492	-0.879	-0.362
683			3	0.467	-0.879	-2.926
684			4	0.15	-0.879	-4.523
685			5	-0.602	-0.879	-3.163
686	11	B8	1	1.456	3.258	6.749
687			2	0.759	3.258	1.263
688			3	0.234	3.258	-0.803
689			4	0.12	3.258	-1.427
690			5	0.331	3.258	-2.492
691	11	B9	1	-0.85	5.6	-2.465
692			2	-0.372	5.6	0.71
693			3	0.506	5.6	0.396
694			4	1.716	5.6	-4.85
695			5	2.878	5.6	-16.43
696	11	B10	1	-3.005	-4.961	-16.896
697			2	-1.667	-4.961	-3.009
698			3	-0.571	-4.961	3.175
699			4	-0.011	-4.961	4.751
700			5	0.211	-4.961	4.076
701	11	B11	1	0.242	-0.742	3.455
702			2	0.364	-0.742	2.104
703			3	0.548	-0.742	0.092
704			4	0.742	-0.742	-2.796
705			5	0.955	-0.742	-6.729
706	11	B12	1	-0.472	5.17	-6.402
707			2	-0.375	5.17	-4.71
708			3	-0.449	5.17	-3.185
709			4	-0.79	5.17	-0.944
710			5	-1.231	5.17	3.098
711	11	B13	1	1.086	1.114	-6.941
712			2	0.866	1.114	-8.863
713			3	0.38	1.114	-10.005
714			4	-3.483	1.114	-5.155
715			5	-3.844	1.114	1.993
716	12	B1	1	-3.152	0	0.261
717			2	-1.024	0	12.894
718			3	-1.08	0	18.574
719			4	-2.493	0	29.506
720			5	-4.032	0	50.808
721	12	B2	1	6.756	0	51.889
722			2	6.677	0	37.903
723			3	6.964	0	23.901
724			4	7.676	0	9.086
725			5	8.201	0	-7.446
726	12	B3	1	1.623	-0.27	1.308
727			2	0.572	-0.27	-6.096
728			3	-0.058	-0.27	-7.565

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
729			4	-0.633	-0.27	-5.41
730			5	-1.528	-0.27	1.916
731	12	B4	1	1.576	0.89	8.582
732			2	0.451	0.89	0.608
733			3	-0.025	0.89	-0.289
734			4	0.489	0.89	-1.369
735			5	1.571	0.89	-9.543
736	12	B5	1	-2.133	0.461	-13.55
737			2	-0.594	0.461	0.509
738			3	0.078	0.461	2.526
739			4	0.185	0.461	1.017
740			5	0.255	0.461	-1.267
741	12	B6	1	-0.052	0.2	-1.336
742			2	-0.017	0.2	-1.135
743			3	-0.053	0.2	-1.002
744			4	-0.228	0.2	-0.309
745			5	-0.504	0.2	1.887
746	12	B7	1	0.752	0.267	5.314
747			2	0.45	0.267	2.171
748			3	0.089	0.267	0.971
749			4	-0.252	0.267	1.461
750			5	-0.391	0.267	3.167
751	12	B8	1	0.297	2.255	4.732
752			2	0.215	2.255	3.448
753			3	0.167	2.255	2.566
754			4	0.295	2.255	1.547
755			5	0.554	2.255	-0.537
756	12	B9	1	-0.739	4.617	-1.053
757			2	-0.268	4.617	1.575
758			3	0.569	4.617	0.84
759			4	1.727	4.617	-4.602
760			5	2.847	4.617	-16.127
761	12	B10	1	-2.923	-5.556	-16.585
762			2	-1.628	-5.556	-3.057
763			3	-0.571	-5.556	3.027
764			4	-0.04	-5.556	4.69
765			5	0.16	-5.556	4.255
766	12	B11	1	0.292	-1.597	3.632
767			2	0.401	-1.597	2.079
768			3	0.574	-1.597	-0.077
769			4	0.761	-1.597	-3.069
770			5	0.965	-1.597	-7.067
771	12	B12	1	-0.538	4.647	-6.921
772			2	-0.44	4.647	-4.963
773			3	-0.482	4.647	-3.227
774			4	-0.773	4.647	-0.921
775			5	-1.163	4.647	2.952
776	12	B13	1	0.595	1.068	-6.809
777			2	0.39	1.068	-7.791
778			3	-0.091	1.068	-8.02
779			4	-2.95	1.068	-3.845
780			5	-3.33	1.068	2.292

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
781	13	B1	1	-2.818	0	-17.416
782			2	-2.054	0	-2.269
783			3	-2.127	0	10.379
784			4	-2.814	0	25.763
785			5	-3.192	0	45.17
786	13	B2	1	2.549	0	24.379
787			2	2.931	0	18.912
788			3	3.64	0	12.485
789			4	4.707	0	4.398
790			5	5.38	0	-6.105
791	13	B3	1	1.95	-2.546	1.193
792			2	0.941	-2.546	-8.653
793			3	0.165	-2.546	-12.341
794			4	-1.082	-2.546	-9.925
795			5	-3.291	-2.546	4.821
796	13	B4	1	1.347	2.269	-9.63
797			2	-0.865	2.269	-10.824
798			3	-1.017	2.269	-2.399
799			4	0.269	2.269	1.847
800			5	2.408	2.269	-8.528
801	13	B5	1	-5.104	1.241	-35.642
802			2	-1.594	1.241	-0.688
803			3	0.131	1.241	5.441
804			4	0.46	1.241	1.961
805			5	0.535	1.241	-3.363
806	13	B6	1	-0.017	0.636	-3.771
807			2	-0.142	0.636	-3.47
808			3	-0.612	0.636	-1.613
809			4	-1.56	0.636	4.316
810			5	-2.659	0.636	17.184
811	13	B7	1	1.35	0.954	8.817
812			2	0.481	0.954	4.082
813			3	-0.462	0.954	4.3
814			4	-0.76	0.954	7.561
815			5	-0.533	0.954	11.1
816	13	B8	1	-0.853	1.299	1.278
817			2	-0.403	1.299	4.386
818			3	0.086	1.299	5.12
819			4	0.488	1.299	3.912
820			5	0.906	1.299	0.449
821	13	B9	1	-1.075	3.666	-2.861
822			2	-0.474	3.666	1.124
823			3	0.467	3.666	1.112
824			4	1.66	3.666	-3.93
825			5	2.769	3.666	-15.1
826	13	B10	1	-2.805	-6.146	-15.639
827			2	-1.55	-6.146	-2.7
828			3	-0.541	-6.146	3.069
829			4	-0.049	-6.146	4.668
830			5	0.126	-6.146	4.365
831	13	B11	1	0.34	-2.451	3.748
832			2	0.434	-2.451	2.008

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
833			3	0.596	-2.451	-0.275
834			4	0.777	-2.451	-3.353
835			5	0.971	-2.451	-7.4
836	13	B12	1	-0.605	4.122	-7.44
837			2	-0.506	4.122	-5.211
838			3	-0.516	4.122	-3.261
839			4	-0.755	4.122	-0.891
840			5	-1.092	4.122	2.805
841	13	B13	1	0.097	1.02	-6.682
842			2	-0.094	1.02	-6.711
843			3	-0.568	1.02	-6.014
844			4	-2.412	1.02	-2.518
845			5	-2.81	1.02	2.596
846	14	B1	1	-3.132	0	-0.783
847			2	-1.084	0	11.998
848			3	-1.141	0	18.087
849			4	-2.511	0	29.278
850			5	-3.982	0	50.465
851	14	B2	1	6.506	0	50.252
852			2	6.455	0	36.772
853			3	6.766	0	23.22
854			4	7.498	0	8.806
855			5	8.032	0	-7.365
856	14	B3	1	1.65	-0.456	1.299
857			2	0.602	-0.456	-6.306
858			3	-0.038	-0.456	-7.963
859			4	-0.666	-0.456	-5.804
860			5	-1.668	-0.456	2.103
861	14	B4	1	1.558	0.946	7.098
862			2	0.355	0.946	-0.326
863			3	-0.106	0.946	-0.463
864			4	0.471	0.946	-1.107
865			5	1.639	0.946	-9.457
866	14	B5	1	-2.376	0.425	-15.349
867			2	-0.675	0.425	0.42
868			3	0.085	0.425	2.767
869			4	0.216	0.425	1.046
870			5	0.29	0.425	-1.601
871	14	B6	1	-0.048	-0.02	-1.674
872			2	-0.026	-0.02	-1.469
873			3	-0.11	-0.02	-1.167
874			4	-0.371	-0.02	0.074
875			5	-0.747	-0.02	3.448
876	14	B7	1	0.886	-0.192	5.18
877			2	0.503	-0.192	1.549
878			3	-0.054	-0.192	0.404
879			4	-0.469	-0.192	1.577
880			5	-0.745	-0.192	4.77
881	14	B8	1	0.307	2.301	3.295
882			2	0.14	2.301	2.2
883			3	0.096	2.301	1.75
884			4	0.313	2.301	0.938

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
885			5	0.683	2.301	-1.506
886	14	B9	1	-1.186	4.649	-4.274
887			2	-0.577	4.649	0.259
888			3	0.404	4.649	0.668
889			4	1.648	4.649	-4.177
890			5	2.801	4.649	-15.403
891	14	B10	1	-2.888	-5.552	-15.95
892			2	-1.588	-5.552	-2.652
893			3	-0.54	-5.552	3.218
894			4	-0.02	-5.552	4.729
895			5	0.176	-5.552	4.187
896	14	B11	1	0.289	-1.596	3.571
897			2	0.397	-1.596	2.033
898			3	0.57	-1.596	-0.106
899			4	0.758	-1.596	-3.08
900			5	0.961	-1.596	-7.062
901	14	B12	1	-0.539	4.645	-6.92
902			2	-0.441	4.645	-4.958
903			3	-0.483	4.645	-3.22
904			4	-0.772	4.645	-0.914
905			5	-1.161	4.645	2.951
906	14	B13	1	0.588	1.066	-6.814
907			2	0.383	1.066	-7.783
908			3	-0.098	1.066	-7.998
909			4	-2.945	1.066	-3.829
910			5	-3.324	1.066	2.297
911	15	B1	1	-3.14	0	-0.373
912			2	-1.06	0	12.347
913			3	-1.116	0	18.271
914			4	-2.502	0	29.353
915			5	-4	0	50.576
916	15	B2	1	6.601	0	50.867
917			2	6.539	0	37.195
918			3	6.84	0	23.473
919			4	7.563	0	8.91
920			5	8.093	0	-7.392
921	15	B3	1	1.639	-0.38	1.302
922			2	0.59	-0.38	-6.22
923			3	-0.047	-0.38	-7.798
924			4	-0.654	-0.38	-5.635
925			5	-1.612	-0.38	2.044
926	15	B4	1	1.565	0.942	7.703
927			2	0.394	0.942	0.055
928			3	-0.073	0.942	-0.392
929			4	0.479	0.942	-1.214
930			5	1.611	0.942	-9.492
931	15	B5	1	-2.277	0.474	-14.616
932			2	-0.642	0.474	0.455
933			3	0.082	0.474	2.668
934			4	0.202	0.474	1.04
935			5	0.273	0.474	-1.439
936	15	B6	1	-0.053	0.153	-1.522

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
937			2	-0.026	0.153	-1.297
938			3	-0.094	0.153	-1.027
939			4	-0.322	0.153	0.041
940			5	-0.652	0.153	2.976
941	15	B7	1	0.798	0.164	5.667
942			2	0.463	0.164	2.373
943			3	0.081	0.164	1.184
944			4	-0.242	0.164	1.695
945			5	-0.337	0.164	3.245
946	15	B8	1	0.089	1.864	3.874
947			2	0.08	1.864	3.46
948			3	0.164	1.864	2.946
949			4	0.438	1.864	1.664
950			5	0.841	1.864	-1.492
951	15	B9	1	-1.175	4.402	-3.328
952			2	-0.533	4.402	1.072
953			3	0.508	4.402	1.118
954			4	1.857	4.402	-4.475
955			5	3.128	4.402	-17.045
956	15	B10	1	-3.251	-5.68	-17.573
957			2	-1.79	-5.68	-2.582
958			3	-0.555	-5.68	3.903
959			4	0.165	-5.68	4.953
960			5	0.559	-5.68	2.716
961	15	B11	1	-0.08	-1.385	2.058
962			2	0.194	-1.385	1.866
963			3	0.566	-1.385	0.246
964			4	0.908	-1.385	-3.024
965			5	1.265	-1.385	-8.084
966	15	B12	1	-0.842	5.467	-7.844
967			2	-0.637	5.467	-4.877
968			3	-0.523	5.467	-2.673
969			4	-0.704	5.467	-0.371
970			5	-1.014	5.467	3.062
971	15	B13	1	0.352	1.075	-7.845
972			2	0.173	1.075	-8.378
973			3	-0.268	1.075	-8.234
974			4	-3.051	1.075	-3.817
975			5	-3.423	1.075	2.506
976	16	B1	1	-3.467	0	16.894
977			2	-0.054	0	27.16
978			3	-0.094	0	26.283
979			4	-2.19	0	33.022
980			5	-4.822	0	56.103
981	16	B2	1	10.713	0	77.761
982			2	10.414	0	55.763
983			3	10.09	0	34.636
984			4	10.467	0	13.494
985			5	10.854	0	-8.706
986	16	B3	1	1.323	1.82	1.414
987			2	0.233	1.82	-3.749
988			3	-0.261	1.82	-3.187

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
989			4	-0.217	1.82	-1.289
990			5	0.096	1.82	-0.803
991	16	B4	1	1.788	-0.433	25.31
992			2	1.538	-0.433	11.105
993			3	0.886	-0.433	1.646
994			4	0.691	-0.433	-4.324
995			5	0.801	-0.433	-10.472
996	16	B5	1	0.595	-0.355	6.743
997			2	0.325	-0.355	1.618
998			3	0.05	-0.355	-0.148
999			4	-0.059	-0.355	0.102
1000			5	0.009	-0.355	0.496
1001	16	B6	1	-0.083	-0.456	0.761
1002			2	0.102	-0.456	0.866
1003			3	0.449	-0.456	-0.555
1004			4	0.961	-0.456	-4.551
1005			5	1.408	-0.456	-11.849
1006	16	B7	1	0.288	-0.879	1.678
1007			2	0.492	-0.879	-0.362
1008			3	0.467	-0.879	-2.926
1009			4	0.15	-0.879	-4.523
1010			5	-0.602	-0.879	-3.163
1011	16	B8	1	1.456	3.258	6.749
1012			2	0.759	3.258	1.263
1013			3	0.234	3.258	-0.803
1014			4	0.12	3.258	-1.427
1015			5	0.331	3.258	-2.492
1016	16	B9	1	-0.85	5.6	-2.465
1017			2	-0.372	5.6	0.71
1018			3	0.506	5.6	0.396
1019			4	1.716	5.6	-4.85
1020			5	2.878	5.6	-16.43
1021	16	B10	1	-3.005	-4.961	-16.896
1022			2	-1.667	-4.961	-3.009
1023			3	-0.571	-4.961	3.175
1024			4	-0.011	-4.961	4.751
1025			5	0.211	-4.961	4.076
1026	16	B11	1	0.242	-0.742	3.455
1027			2	0.364	-0.742	2.104
1028			3	0.548	-0.742	0.092
1029			4	0.742	-0.742	-2.796
1030			5	0.955	-0.742	-6.729
1031	16	B12	1	-0.472	5.17	-6.402
1032			2	-0.375	5.17	-4.71
1033			3	-0.449	5.17	-3.185
1034			4	-0.79	5.17	-0.944
1035			5	-1.231	5.17	3.098
1036	16	B13	1	1.086	1.114	-6.941
1037			2	0.866	1.114	-8.863
1038			3	0.38	1.114	-10.005
1039			4	-3.483	1.114	-5.155
1040			5	-3.844	1.114	1.993

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
1041	17	B1	1	-3.152	0	0.261
1042			2	-1.024	0	12.894
1043			3	-1.08	0	18.574
1044			4	-2.493	0	29.506
1045			5	-4.032	0	50.808
1046	17	B2	1	6.756	0	51.889
1047			2	6.677	0	37.903
1048			3	6.964	0	23.901
1049			4	7.676	0	9.086
1050			5	8.201	0	-7.446
1051	17	B3	1	1.623	-0.27	1.308
1052			2	0.572	-0.27	-6.096
1053			3	-0.058	-0.27	-7.565
1054			4	-0.633	-0.27	-5.41
1055			5	-1.528	-0.27	1.916
1056	17	B4	1	1.576	0.89	8.582
1057			2	0.451	0.89	0.608
1058			3	-0.025	0.89	-0.289
1059			4	0.489	0.89	-1.369
1060			5	1.571	0.89	-9.543
1061	17	B5	1	-2.133	0.461	-13.55
1062			2	-0.594	0.461	0.509
1063			3	0.078	0.461	2.526
1064			4	0.185	0.461	1.017
1065			5	0.255	0.461	-1.267
1066	17	B6	1	-0.052	0.2	-1.336
1067			2	-0.017	0.2	-1.135
1068			3	-0.053	0.2	-1.002
1069			4	-0.228	0.2	-0.309
1070			5	-0.504	0.2	1.887
1071	17	B7	1	0.752	0.267	5.314
1072			2	0.45	0.267	2.171
1073			3	0.089	0.267	0.971
1074			4	-0.252	0.267	1.461
1075			5	-0.391	0.267	3.167
1076	17	B8	1	0.297	2.255	4.732
1077			2	0.215	2.255	3.448
1078			3	0.167	2.255	2.566
1079			4	0.295	2.255	1.547
1080			5	0.554	2.255	-0.537
1081	17	B9	1	-0.739	4.617	-1.053
1082			2	-0.268	4.617	1.575
1083			3	0.569	4.617	0.84
1084			4	1.727	4.617	-4.602
1085			5	2.847	4.617	-16.127
1086	17	B10	1	-2.923	-5.556	-16.585
1087			2	-1.628	-5.556	-3.057
1088			3	-0.571	-5.556	3.027
1089			4	-0.04	-5.556	4.69
1090			5	0.16	-5.556	4.255
1091	17	B11	1	0.292	-1.597	3.632
1092			2	0.401	-1.597	2.079

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
1093			3	0.574	-1.597	-0.077
1094			4	0.761	-1.597	-3.069
1095			5	0.965	-1.597	-7.067
1096	17	B12	1	-0.538	4.647	-6.921
1097			2	-0.44	4.647	-4.963
1098			3	-0.482	4.647	-3.227
1099			4	-0.773	4.647	-0.921
1100			5	-1.163	4.647	2.952
1101	17	B13	1	0.595	1.068	-6.809
1102			2	0.39	1.068	-7.791
1103			3	-0.091	1.068	-8.02
1104			4	-2.95	1.068	-3.845
1105			5	-3.33	1.068	2.292
1106	18	B1	1	-2.818	0	-17.416
1107			2	-2.054	0	-2.269
1108			3	-2.127	0	10.379
1109			4	-2.814	0	25.763
1110			5	-3.192	0	45.17
1111	18	B2	1	2.549	0	24.379
1112			2	2.931	0	18.912
1113			3	3.64	0	12.485
1114			4	4.707	0	4.398
1115			5	5.38	0	-6.105
1116	18	B3	1	1.95	-2.546	1.193
1117			2	0.941	-2.546	-8.653
1118			3	0.165	-2.546	-12.341
1119			4	-1.082	-2.546	-9.925
1120			5	-3.291	-2.546	4.821
1121	18	B4	1	1.347	2.269	-9.63
1122			2	-0.865	2.269	-10.824
1123			3	-1.017	2.269	-2.399
1124			4	0.269	2.269	1.847
1125			5	2.408	2.269	-8.528
1126	18	B5	1	-5.104	1.241	-35.642
1127			2	-1.594	1.241	-0.688
1128			3	0.131	1.241	5.441
1129			4	0.46	1.241	1.961
1130			5	0.535	1.241	-3.363
1131	18	B6	1	-0.017	0.636	-3.771
1132			2	-0.142	0.636	-3.47
1133			3	-0.612	0.636	-1.613
1134			4	-1.56	0.636	4.316
1135			5	-2.659	0.636	17.184
1136	18	B7	1	1.35	0.954	8.817
1137			2	0.481	0.954	4.082
1138			3	-0.462	0.954	4.3
1139			4	-0.76	0.954	7.561
1140			5	-0.533	0.954	11.1
1141	18	B8	1	-0.853	1.299	1.278
1142			2	-0.403	1.299	4.386
1143			3	0.086	1.299	5.12
1144			4	0.488	1.299	3.912

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
1145			5	0.906	1.299	0.449
1146	18	B9	1	-1.075	3.666	-2.861
1147			2	-0.474	3.666	1.124
1148			3	0.467	3.666	1.112
1149			4	1.66	3.666	-3.93
1150			5	2.769	3.666	-15.1
1151	18	B10	1	-2.805	-6.146	-15.639
1152			2	-1.55	-6.146	-2.7
1153			3	-0.541	-6.146	3.069
1154			4	-0.049	-6.146	4.668
1155			5	0.126	-6.146	4.365
1156	18	B11	1	0.34	-2.451	3.748
1157			2	0.434	-2.451	2.008
1158			3	0.596	-2.451	-0.275
1159			4	0.777	-2.451	-3.353
1160			5	0.971	-2.451	-7.4
1161	18	B12	1	-0.605	4.122	-7.44
1162			2	-0.506	4.122	-5.211
1163			3	-0.516	4.122	-3.261
1164			4	-0.755	4.122	-0.891
1165			5	-1.092	4.122	2.805
1166	18	B13	1	0.097	1.02	-6.682
1167			2	-0.094	1.02	-6.711
1168			3	-0.568	1.02	-6.014
1169			4	-2.412	1.02	-2.518
1170			5	-2.81	1.02	2.596
1171	19	B1	1	-3.132	0	-0.783
1172			2	-1.084	0	11.998
1173			3	-1.141	0	18.087
1174			4	-2.511	0	29.278
1175			5	-3.982	0	50.465
1176	19	B2	1	6.506	0	50.252
1177			2	6.455	0	36.772
1178			3	6.766	0	23.22
1179			4	7.498	0	8.806
1180			5	8.032	0	-7.365
1181	19	B3	1	1.65	-0.456	1.299
1182			2	0.602	-0.456	-6.306
1183			3	-0.038	-0.456	-7.963
1184			4	-0.666	-0.456	-5.804
1185			5	-1.668	-0.456	2.103
1186	19	B4	1	1.558	0.946	7.098
1187			2	0.355	0.946	-0.326
1188			3	-0.106	0.946	-0.463
1189			4	0.471	0.946	-1.107
1190			5	1.639	0.946	-9.457
1191	19	B5	1	-2.376	0.425	-15.349
1192			2	-0.675	0.425	0.42
1193			3	0.085	0.425	2.767
1194			4	0.216	0.425	1.046
1195			5	0.29	0.425	-1.601
1196	19	B6	1	-0.048	-0.02	-1.674

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
1197			2	-0.026	-0.02	-1.469
1198			3	-0.11	-0.02	-1.167
1199			4	-0.371	-0.02	0.074
1200			5	-0.747	-0.02	3.448
1201	19	B7	1	0.886	-0.192	5.18
1202			2	0.503	-0.192	1.549
1203			3	-0.054	-0.192	0.404
1204			4	-0.469	-0.192	1.577
1205			5	-0.745	-0.192	4.77
1206	19	B8	1	0.307	2.301	3.295
1207			2	0.14	2.301	2.2
1208			3	0.096	2.301	1.75
1209			4	0.313	2.301	0.938
1210			5	0.683	2.301	-1.506
1211	19	B9	1	-1.186	4.649	-4.274
1212			2	-0.577	4.649	0.259
1213			3	0.404	4.649	0.668
1214			4	1.648	4.649	-4.177
1215			5	2.801	4.649	-15.403
1216	19	B10	1	-2.888	-5.552	-15.95
1217			2	-1.588	-5.552	-2.652
1218			3	-0.54	-5.552	3.218
1219			4	-0.02	-5.552	4.729
1220			5	0.176	-5.552	4.187
1221	19	B11	1	0.289	-1.596	3.571
1222			2	0.397	-1.596	2.033
1223			3	0.57	-1.596	-0.106
1224			4	0.758	-1.596	-3.08
1225			5	0.961	-1.596	-7.062
1226	19	B12	1	-0.539	4.645	-6.92
1227			2	-0.441	4.645	-4.958
1228			3	-0.483	4.645	-3.22
1229			4	-0.772	4.645	-0.914
1230			5	-1.161	4.645	2.951
1231	19	B13	1	0.588	1.066	-6.814
1232			2	0.383	1.066	-7.783
1233			3	-0.098	1.066	-7.998
1234			4	-2.945	1.066	-3.829
1235			5	-3.324	1.066	2.297
1236	20	B1	1	-8.285	0	31.819
1237			2	-0.602	0	58.487
1238			3	0.369	0	56.814
1239			4	-2.348	0	62.266
1240			5	-5.678	0	89.117
1241	20	B2	1	17.524	0	133.596
1242			2	17.269	0	97.367
1243			3	17.553	0	61.515
1244			4	18.819	0	24.425
1245			5	19.811	0	-15.799
1246	20	B3	1	-0.738	4.708	0.024
1247			2	-0.684	4.708	4.975
1248			3	-0.376	4.708	8.888

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
1249			4	0.795	4.708	8.327
1250			5	3.077	4.708	-4.653
1251	20	B4	1	0.935	-1.955	45.139
1252			2	2.354	-1.955	29.834
1253			3	2.105	-1.955	11.494
1254			4	2.75	-1.955	-7.057
1255			5	4.258	-1.955	-35.617
1256	20	B5	1	-1.085	-0.572	0.635
1257			2	-0.055	-0.572	5.556
1258			3	0.015	-0.572	5.524
1259			4	0.553	-0.572	3.628
1260			5	2.696	-0.572	-12.436
1261	20	B6	1	-3.185	-1.707	-11.519
1262			2	-1.537	-1.707	3
1263			3	0.977	-1.707	4.935
1264			4	3.579	-1.707	-7.451
1265			5	6.019	-1.707	-36.867
1266	20	B7	1	-2.936	-1.551	-10.293
1267			2	-1.254	-1.551	0.515
1268			3	0.482	-1.551	2.064
1269			4	1.263	-1.551	-2.326
1270			5	1.453	-1.551	-9.558
1271	20	B8	1	0.375	4.448	11.754
1272			2	0.446	4.448	9.883
1273			3	1.051	4.448	6.701
1274			4	2.437	4.448	-1.011
1275			5	4.162	4.448	-17.409
1276	20	B9	1	-4.763	8.829	-17.014
1277			2	-2.43	8.829	1.342
1278			3	0.909	8.829	4.912
1279			4	4.839	8.829	-8.64
1280			5	8.388	8.829	-42.034
1281	20	B10	1	-8.8	-8.862	-43.135
1282			2	-4.723	-8.862	-2.875
1283			3	-1.05	-8.862	13.09
1284			4	1.614	-8.862	11.446
1285			5	3.587	-8.862	-4.233
1286	20	B11	1	-2.559	-1.46	-5.191
1287			2	-1.032	-1.46	3.39
1288			3	0.862	-1.46	4.276
1289			4	2.448	-1.46	-2.853
1290			5	4.117	-1.46	-18.261
1291	20	B12	1	-3.595	10.426	-17.496
1292			2	-2.444	10.426	-5.35
1293			3	-1.21	10.426	1.281
1294			4	-0.35	10.426	3.88
1295			5	0.172	10.426	3.879
1296	20	B13	1	-0.389	1.17	-13.581
1297			2	-0.332	1.17	-12.875
1298			3	-0.34	1.17	-12.246
1299			4	-4.371	1.17	-5.463
1300			5	-4.556	1.17	3.211

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
1301	21	B1	1	-7.656	0	-1.448
1302			2	-2.541	0	29.955
1303			3	-1.602	0	41.397
1304			4	-2.953	0	55.234
1305			5	-4.098	0	78.527
1306	21	B2	1	9.61	0	81.851
1307			2	10.125	0	61.648
1308			3	11.3	0	40.045
1309			4	13.236	0	15.608
1310			5	14.506	0	-13.279
1311	21	B3	1	-0.137	0.528	-0.188
1312			2	-0.007	0.528	0.281
1313			3	0.03	0.528	0.132
1314			4	-0.036	0.528	0.085
1315			5	-0.17	0.528	0.784
1316	21	B4	1	0.512	0.69	11.683
1317			2	0.175	0.69	8.839
1318			3	0.388	0.69	7.624
1319			4	2.346	0.69	-1.149
1320			5	5.797	0.69	-33.759
1321	21	B5	1	-6.541	1.059	-39.951
1322			2	-1.892	1.059	3.339
1323			3	0.107	1.059	10.872
1324			4	1.042	1.059	5.458
1325			5	3.186	1.059	-15.961
1326	21	B6	1	-3.124	-0.394	-15.712
1327			2	-1.693	-0.394	-1.002
1328			3	-0.242	-0.394	4.042
1329			4	1.201	-0.394	1.033
1330			5	2.195	-0.394	-9.395
1331	21	B7	1	-2.008	0.742	-3.019
1332			2	-1.298	0.742	5.581
1333			3	-0.5	0.742	9.857
1334			4	0.681	0.742	9.641
1335			5	1.877	0.742	3.102
1336	21	B8	1	-1.944	2.443	7.72
1337			2	-0.689	2.443	14.254
1338			3	1.032	2.443	13.44
1339			4	2.787	2.443	4.938
1340			5	4.608	2.443	-13.498
1341	21	B9	1	-4.541	6.863	-14.188
1342			2	-2.223	6.863	3.072
1343			3	1.036	6.863	5.8
1344			4	4.862	6.863	-8.145
1345			5	8.325	6.863	-41.428
1346	21	B10	1	-8.635	-10.051	-42.514
1347			2	-4.647	-10.051	-2.971
1348			3	-1.051	-10.051	12.793
1349			4	1.556	-10.051	11.324
1350			5	3.486	-10.051	-3.877
1351	21	B11	1	-2.459	-3.171	-4.837
1352			2	-0.958	-3.171	3.34

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
1353			3	0.913	-3.171	3.938
1354			4	2.486	-3.171	-3.399
1355			5	4.137	-3.171	-18.936
1356	21	B12	1	-3.726	9.379	-18.536
1357			2	-2.573	9.379	-5.856
1358			3	-1.294	9.379	1.198
1359			4	-0.346	9.379	3.926
1360			5	0.309	9.379	3.587
1361	21	B13	1	-1.37	1.078	-13.316
1362			2	-1.285	1.078	-10.732
1363			3	-1.282	1.078	-8.278
1364			4	-3.306	1.078	-2.842
1365			5	-3.528	1.078	3.809
1366	22	B1	1	-6.987	0	-36.802
1367			2	-4.601	0	-0.371
1368			3	-3.697	0	25.007
1369			4	-3.595	0	47.747
1370			5	-2.418	0	67.25
1371	22	B2	1	1.196	0	26.832
1372			2	2.632	0	23.666
1373			3	4.651	0	17.213
1374			4	7.298	0	6.232
1375			5	8.864	0	-10.596
1376	22	B3	1	0.516	-4.023	-0.416
1377			2	0.73	-4.023	-4.832
1378			3	0.476	-4.023	-9.42
1379			4	-0.935	-4.023	-8.943
1380			5	-3.698	-4.023	6.595
1381	22	B4	1	0.052	3.448	-24.741
1382			2	-2.276	3.448	-14.024
1383			3	-1.701	3.448	3.405
1384			4	1.905	3.448	5.285
1385			5	7.472	3.448	-31.729
1386	22	B5	1	-12.482	2.62	-84.133
1387			2	-3.893	2.62	0.945
1388			3	0.213	2.62	16.702
1389			4	1.592	2.62	7.347
1390			5	3.746	2.62	-20.154
1391	22	B6	1	-3.054	0.478	-20.581
1392			2	-1.864	0.478	-5.671
1393			3	-1.169	0.478	2.819
1394			4	-1.464	0.478	10.283
1395			5	-2.114	0.478	21.198
1396	22	B7	1	-0.811	2.116	3.986
1397			2	-1.307	2.116	9.403
1398			3	-1.365	2.116	16.516
1399			4	-0.637	2.116	21.842
1400			5	1.592	2.116	18.967
1401	22	B8	1	-4.242	0.53	0.812
1402			2	-1.925	0.53	16.128
1403			3	0.87	0.53	18.548
1404			4	3.173	0.53	9.668

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
1405			5	5.314	0.53	-11.526
1406	22	B9	1	-5.213	4.961	-17.805
1407			2	-2.634	4.961	2.169
1408			3	0.832	4.961	6.344
1409			4	4.727	4.961	-6.8
1410			5	8.17	4.961	-39.374
1411	22	B10	1	-8.401	-11.233	-40.621
1412			2	-4.49	-11.233	-2.256
1413			3	-0.99	-11.233	12.879
1414			4	1.539	-11.233	11.278
1415			5	3.417	-11.233	-3.655
1416	22	B11	1	-2.363	-4.879	-4.605
1417			2	-0.892	-4.879	3.198
1418			3	0.957	-4.879	3.543
1419			4	2.517	-4.879	-3.967
1420			5	4.15	-4.879	-19.602
1421	22	B12	1	-3.86	8.329	-19.572
1422			2	-2.704	8.329	-6.352
1423			3	-1.379	8.329	1.129
1424			4	-0.34	8.329	3.985
1425			5	0.451	8.329	3.293
1426	22	B13	1	-2.366	0.981	-13.061
1427			2	-2.252	0.981	-8.572
1428			3	-2.237	0.981	-4.265
1429			4	-2.229	0.981	-0.188
1430			5	-2.489	0.981	4.418
1431	23	B1	1	-7.616	0	-3.535
1432			2	-2.662	0	28.161
1433			3	-1.725	0	40.423
1434			4	-2.99	0	54.779
1435			5	-3.998	0	77.84
1436	23	B2	1	9.111	0	78.578
1437			2	9.679	0	59.386
1438			3	10.904	0	38.684
1439			4	12.881	0	15.049
1440			5	14.168	0	-13.116
1441	23	B3	1	-0.084	0.156	-0.204
1442			2	0.054	0.156	-0.138
1443			3	0.07	0.156	-0.664
1444			4	-0.103	0.156	-0.701
1445			5	-0.45	0.156	1.158
1446	23	B4	1	0.476	0.803	8.715
1447			2	-0.059	0.803	6.97
1448			3	0.236	0.803	7.276
1449			4	2.309	0.803	-0.624
1450			5	5.933	0.803	-33.587
1451	23	B5	1	-7.026	0.988	-43.548
1452			2	-2.056	0.988	3.162
1453			3	0.12	0.988	11.353
1454			4	1.103	0.988	5.516
1455			5	3.256	0.988	-16.628
1456	23	B6	1	-3.115	-0.836	-16.388

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
1457			2	-1.708	-0.836	-1.669
1458			3	-0.336	-0.836	3.713
1459			4	0.914	-0.836	1.799
1460			5	1.71	-0.836	-6.274
1461	23	B7	1	-1.739	-0.177	-3.287
1462			2	-1.193	-0.177	4.337
1463			3	-0.609	-0.177	8.723
1464			4	0.247	-0.177	9.875
1465			5	1.168	-0.177	6.307
1466	23	B8	1	-1.923	2.535	4.846
1467			2	-0.838	2.535	11.758
1468			3	0.889	2.535	11.809
1469			4	2.822	2.535	3.719
1470			5	4.868	2.535	-15.437
1471	23	B9	1	-5.436	6.928	-20.631
1472			2	-2.841	6.928	0.439
1473			3	0.705	6.928	5.456
1474			4	4.704	6.928	-7.294
1475			5	8.233	6.928	-39.98
1476	23	B10	1	-8.565	-10.043	-41.243
1477			2	-4.566	-10.043	-2.16
1478			3	-0.989	-10.043	13.175
1479			4	1.597	-10.043	11.4
1480			5	3.518	-10.043	-4.011
1481	23	B11	1	-2.464	-3.168	-4.959
1482			2	-0.966	-3.168	3.248
1483			3	0.906	-3.168	3.881
1484			4	2.479	-3.168	-3.421
1485			5	4.13	-3.168	-18.926
1486	23	B12	1	-3.728	9.376	-18.533
1487			2	-2.575	9.376	-5.845
1488			3	-1.295	9.376	1.213
1489			4	-0.344	9.376	3.939
1490			5	0.314	9.376	3.585
1491	23	B13	1	-1.385	1.074	-13.327
1492			2	-1.299	1.074	-10.714
1493			3	-1.295	1.074	-8.233
1494			4	-3.295	1.074	-2.809
1495			5	-3.517	1.074	3.821
1496	24	B1	1	-3.789	0	33.938
1497			2	0.939	0	41.776
1498			3	0.917	0	34.175
1499			4	-1.879	0	36.612
1500			5	-5.63	0	61.51
1501	24	B2	1	14.765	0	104.249
1502			2	14.242	0	74.045
1503			3	13.486	0	45.624
1504			4	13.324	0	18.006
1505			5	13.567	0	-9.993
1506	24	B3	1	1.012	3.985	1.523
1507			2	-0.118	3.985	-1.316
1508			3	-0.473	3.985	1.356

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
1509			4	0.211	3.985	3.001
1510			5	1.775	3.985	-3.58
1511	24	B4	1	2.007	-1.759	42.643
1512			2	2.665	-1.759	21.984
1513			3	1.83	-1.759	3.653
1514			4	0.997	-1.759	-7.385
1515			5	0.004	-1.759	-11.436
1516	24	B5	1	3.422	-1.121	27.768
1517			2	1.277	-1.121	2.761
1518			3	0.047	-1.121	-2.921
1519			4	-0.317	-1.121	-0.819
1520			5	-0.252	-1.121	2.42
1521	24	B6	1	-0.118	-0.94	3.009
1522			2	0.218	-0.94	3.039
1523			3	0.966	-0.94	0.031
1524			4	2.199	-0.94	-8.826
1525			5	3.415	-0.94	-26.057
1526	24	B7	1	-0.264	-1.669	-1.472
1527			2	0.585	-1.669	-2.071
1528			3	0.909	-1.669	-6.042
1529			4	0.694	-1.669	-10.39
1530			5	-0.407	-1.669	-11.018
1531	24	B8	1	2.398	3.823	9.345
1532			2	1.24	3.823	0.338
1533			3	0.358	3.823	-2.977
1534			4	0.07	3.823	-3.676
1535			5	0.265	3.823	-4.433
1536	24	B9	1	-0.95	6.336	-2.933
1537			2	-0.431	6.336	0.658
1538			3	0.547	6.336	0.402
1539			4	1.913	6.336	-5.395
1540			5	3.236	6.336	-18.375
1541	24	B10	1	-3.451	-4.495	-18.83
1542			2	-1.906	-4.495	-2.891
1543			3	-0.586	-4.495	4.009
1544			4	0.203	-4.495	5.037
1545			5	0.644	-4.495	2.427
1546	24	B11	1	-0.177	0.324	1.766
1547			2	0.124	0.324	1.962
1548			3	0.519	0.324	0.612
1549			4	0.874	0.324	-2.467
1550			5	1.249	0.324	-7.413
1551	24	B12	1	-0.71	6.515	-6.806
1552			2	-0.506	6.515	-4.376
1553			3	-0.457	6.515	-2.597
1554			4	-0.739	6.515	-0.423
1555			5	-1.153	6.515	3.355
1556	24	B13	1	1.34	1.17	-8.105
1557			2	1.133	1.17	-10.53
1558			3	0.681	1.17	-12.225
1559			4	-4.122	1.17	-6.455
1560			5	-4.456	1.17	1.902

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
1561	25	B1	1	-3.16	0	0.671
1562			2	-0.999	0	13.244
1563			3	-1.055	0	18.758
1564			4	-2.484	0	29.58
1565			5	-4.05	0	50.92
1566	25	B2	1	6.851	0	52.504
1567			2	6.766	0	38.326
1568			3	7.038	0	24.153
1569			4	7.74	0	9.19
1570			5	8.262	0	-7.473
1571	25	B3	1	1.612	-0.194	1.311
1572			2	0.559	-0.194	-6.01
1573			3	-0.067	-0.194	-7.4
1574			4	-0.62	-0.194	-5.241
1575			5	-1.472	-0.194	1.857
1576	25	B4	1	1.583	0.886	9.187
1577			2	0.49	0.886	0.99
1578			3	0.009	0.886	-0.218
1579			4	0.497	0.886	-1.476
1580			5	1.543	0.886	-9.578
1581	25	B5	1	-2.034	0.51	-12.818
1582			2	-0.56	0.51	0.544
1583			3	0.075	0.51	2.427
1584			4	0.172	0.51	1.011
1585			5	0.238	0.51	-1.105
1586	25	B6	1	-0.057	0.373	-1.185
1587			2	-0.018	0.373	-0.963
1588			3	-0.038	0.373	-0.863
1589			4	-0.178	0.373	-0.342
1590			5	-0.409	0.373	1.415
1591	25	B7	1	0.664	0.624	5.801
1592			2	0.41	0.624	2.995
1593			3	0.136	0.624	1.751
1594			4	-0.025	0.624	1.578
1595			5	0.017	0.624	1.642
1596	25	B8	1	0.079	1.818	5.311
1597			2	0.164	1.818	4.708
1598			3	0.236	1.818	3.762
1599			4	0.421	1.818	2.273
1600			5	0.711	1.818	-0.523
1601	25	B9	1	-0.727	4.37	-0.107
1602			2	-0.224	4.37	2.388
1603			3	0.674	4.37	1.29
1604			4	1.936	4.37	-4.9
1605			5	3.174	4.37	-17.769
1606	25	B10	1	-3.286	-5.684	-18.209
1607			2	-1.83	-5.684	-2.987
1608			3	-0.586	-5.684	3.712
1609			4	0.145	-5.684	4.914
1610			5	0.543	-5.684	2.784
1611	25	B11	1	-0.077	-1.387	2.119
1612			2	0.198	-1.387	1.913

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
1613			3	0.57	-1.387	0.274
1614			4	0.911	-1.387	-3.013
1615			5	1.269	-1.387	-8.089
1616	25	B12	1	-0.841	5.468	-7.845
1617			2	-0.636	5.468	-4.883
1618			3	-0.523	5.468	-2.681
1619			4	-0.705	5.468	-0.377
1620			5	-1.016	5.468	3.063
1621	25	B13	1	0.36	1.077	-7.84
1622			2	0.18	1.077	-8.387
1623			3	-0.261	1.077	-8.256
1624			4	-3.057	1.077	-3.834
1625			5	-3.428	1.077	2.5
1626	26	B1	1	-2.491	0	-34.683
1627			2	-3.06	0	-17.082
1628			3	-3.15	0	2.368
1629			4	-3.126	0	22.094
1630			5	-2.37	0	39.643
1631	26	B2	1	-1.562	0	-2.514
1632			2	-1.183	0	0.344
1633			3	0.389	0	1.322
1634			4	1.802	0	-0.186
1635			5	2.619	0	-4.79
1636	26	B3	1	2.266	-4.746	1.082
1637			2	1.297	-4.746	-11.124
1638			3	0.379	-4.746	-16.952
1639			4	-1.518	-4.746	-14.27
1640			5	-4.999	-4.746	7.668
1641	26	B4	1	1.124	3.644	-27.238
1642			2	-2.031	3.644	-21.874
1643			3	-1.976	3.644	-4.436
1644			4	-0.271	3.644	4.957
1645			5	3.218	3.644	-7.549
1646	26	B5	1	-7.976	2.07	-57
1647			2	-2.561	2.07	-1.851
1648			3	0.181	2.07	8.257
1649			4	0.722	2.07	2.899
1650			5	0.798	2.07	-5.298
1651	26	B6	1	0.013	1.245	-6.054
1652			2	-0.27	1.245	-5.632
1653			3	-1.155	1.245	-2.085
1654			4	-2.843	1.245	8.908
1655			5	-4.718	1.245	32.008
1656	26	B7	1	1.861	1.998	12.807
1657			2	0.471	1.998	6.817
1658			3	-0.878	1.998	8.41
1659			4	-1.096	1.998	13.779
1660			5	-0.267	1.998	17.507
1661	26	B8	1	-2.219	-0.095	-1.597
1662			2	-1.084	-0.095	6.583
1663			3	-0.087	-0.095	8.869
1664			4	0.806	-0.095	7.003

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
1665			5	1.417	-0.095	1.449
1666	26	B9	1	-1.399	2.468	-3.723
1667			2	-0.635	2.468	1.486
1668			3	0.47	2.468	1.834
1669			4	1.802	2.468	-3.555
1670			5	3.019	2.468	-15.715
1671	26	B10	1	-3.052	-6.865	-16.316
1672			2	-1.673	-6.865	-2.272
1673			3	-0.525	-6.865	3.798
1674			4	0.127	-6.865	4.869
1675			5	0.474	-6.865	3.005
1676	26	B11	1	0.018	-3.095	2.351
1677			2	0.265	-3.095	1.771
1678			3	0.614	-3.095	-0.121
1679			4	0.942	-3.095	-3.581
1680			5	1.282	-3.095	-8.754
1681	26	B12	1	-0.975	4.418	-8.882
1682			2	-0.767	4.418	-5.378
1683			3	-0.603	4.418	-2.749
1684			4	-0.669	4.418	-0.318
1685			5	-0.875	4.418	2.769
1686	26	B13	1	-0.637	0.98	-7.586
1687			2	-0.788	0.98	-6.227
1688			3	-1.216	0.98	-4.243
1689			4	-1.98	0.98	-1.18
1690			5	-2.389	0.98	3.109
1691	27	B1	1	-3.12	0	-1.416
1692			2	-1.121	0	11.451
1693			3	-1.178	0	17.784
1694			4	-2.521	0	29.125
1695			5	-3.95	0	50.233
1696	27	B2	1	6.352	0	49.231
1697			2	6.316	0	36.064
1698			3	6.642	0	22.792
1699			4	7.385	0	8.631
1700			5	7.924	0	-7.31
1701	27	B3	1	1.666	-0.566	1.294
1702			2	0.62	-0.566	-6.429
1703			3	-0.027	-0.566	-8.196
1704			4	-0.687	-0.566	-6.028
1705			5	-1.752	-0.566	2.231
1706	27	B4	1	1.547	0.999	6.219
1707			2	0.297	0.999	-0.879
1708			3	-0.154	0.999	-0.565
1709			4	0.46	0.999	-0.951
1710			5	1.679	0.999	-9.407
1711	27	B5	1	-2.52	0.439	-16.414
1712			2	-0.724	0.439	0.366
1713			3	0.088	0.439	2.908
1714			4	0.233	0.439	1.069
1715			5	0.308	0.439	-1.773
1716	27	B6	1	-0.048	-0.068	-1.86

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
1717			2	-0.038	-0.068	-1.63
1718			3	-0.151	-0.068	-1.192
1719			4	-0.465	-0.068	0.424
1720			5	-0.894	-0.068	4.536
1721	27	B7	1	0.933	-0.295	5.533
1722			2	0.515	-0.295	1.751
1723			3	-0.063	-0.295	0.617
1724			4	-0.459	-0.295	1.811
1725			5	-0.691	-0.295	4.847
1726	27	B8	1	0.099	1.91	2.437
1727			2	-0.004	1.91	2.212
1728			3	0.093	1.91	2.13
1729			4	0.456	1.91	1.054
1730			5	0.971	1.91	-2.462
1731	27	B9	1	-1.622	4.434	-6.549
1732			2	-0.842	4.434	-0.245
1733			3	0.342	4.434	0.946
1734			4	1.779	4.434	-4.049
1735			5	3.081	4.434	-16.321
1736	27	B10	1	-3.216	-5.676	-16.937
1737			2	-1.749	-5.676	-2.176
1738			3	-0.524	-5.676	4.094
1739			4	0.186	-5.676	4.991
1740			5	0.575	-5.676	2.649
1741	27	B11	1	-0.082	-1.384	1.997
1742			2	0.191	-1.384	1.82
1743			3	0.562	-1.384	0.217
1744			4	0.904	-1.384	-3.035
1745			5	1.262	-1.384	-8.078
1746	27	B12	1	-0.843	5.465	-7.842
1747			2	-0.638	5.465	-4.872
1748			3	-0.523	5.465	-2.666
1749			4	-0.703	5.465	-0.364
1750			5	-1.011	5.465	3.061
1751	27	B13	1	0.344	1.073	-7.851
1752			2	0.165	1.073	-8.369
1753			3	-0.274	1.073	-8.212
1754			4	-3.046	1.073	-3.801
1755			5	-3.417	1.073	2.512
1756	28	B1	1	-3.789	0	33.938
1757			2	0.939	0	41.776
1758			3	0.917	0	34.175
1759			4	-1.879	0	36.612
1760			5	-5.63	0	61.51
1761	28	B2	1	14.765	0	104.249
1762			2	14.242	0	74.045
1763			3	13.486	0	45.624
1764			4	13.324	0	18.006
1765			5	13.567	0	-9.993
1766	28	B3	1	1.012	3.985	1.523
1767			2	-0.118	3.985	-1.316
1768			3	-0.473	3.985	1.356

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
1769			4	0.211	3.985	3.001
1770			5	1.775	3.985	-3.58
1771	28	B4	1	2.007	-1.759	42.643
1772			2	2.665	-1.759	21.984
1773			3	1.83	-1.759	3.653
1774			4	0.997	-1.759	-7.385
1775			5	0.004	-1.759	-11.436
1776	28	B5	1	3.422	-1.121	27.768
1777			2	1.277	-1.121	2.761
1778			3	0.047	-1.121	-2.921
1779			4	-0.317	-1.121	-0.819
1780			5	-0.252	-1.121	2.42
1781	28	B6	1	-0.118	-0.94	3.009
1782			2	0.218	-0.94	3.039
1783			3	0.966	-0.94	0.031
1784			4	2.199	-0.94	-8.826
1785			5	3.415	-0.94	-26.057
1786	28	B7	1	-0.264	-1.669	-1.472
1787			2	0.585	-1.669	-2.071
1788			3	0.909	-1.669	-6.042
1789			4	0.694	-1.669	-10.39
1790			5	-0.407	-1.669	-11.018
1791	28	B8	1	2.398	3.823	9.345
1792			2	1.24	3.823	0.338
1793			3	0.358	3.823	-2.977
1794			4	0.07	3.823	-3.676
1795			5	0.265	3.823	-4.433
1796	28	B9	1	-0.95	6.336	-2.933
1797			2	-0.431	6.336	0.658
1798			3	0.547	6.336	0.402
1799			4	1.913	6.336	-5.395
1800			5	3.236	6.336	-18.375
1801	28	B10	1	-3.451	-4.495	-18.83
1802			2	-1.906	-4.495	-2.891
1803			3	-0.586	-4.495	4.009
1804			4	0.203	-4.495	5.037
1805			5	0.644	-4.495	2.427
1806	28	B11	1	-0.177	0.324	1.766
1807			2	0.124	0.324	1.962
1808			3	0.519	0.324	0.612
1809			4	0.874	0.324	-2.467
1810			5	1.249	0.324	-7.413
1811	28	B12	1	-0.71	6.515	-6.806
1812			2	-0.506	6.515	-4.376
1813			3	-0.457	6.515	-2.597
1814			4	-0.739	6.515	-0.423
1815			5	-1.153	6.515	3.355
1816	28	B13	1	1.34	1.17	-8.105
1817			2	1.133	1.17	-10.53
1818			3	0.681	1.17	-12.225
1819			4	-4.122	1.17	-6.455
1820			5	-4.456	1.17	1.902

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
1821	29	B1	1	-3.16	0	0.671
1822			2	-0.999	0	13.244
1823			3	-1.055	0	18.758
1824			4	-2.484	0	29.58
1825			5	-4.05	0	50.92
1826	29	B2	1	6.851	0	52.504
1827			2	6.766	0	38.326
1828			3	7.038	0	24.153
1829			4	7.74	0	9.19
1830			5	8.262	0	-7.473
1831	29	B3	1	1.612	-0.194	1.311
1832			2	0.559	-0.194	-6.01
1833			3	-0.067	-0.194	-7.4
1834			4	-0.62	-0.194	-5.241
1835			5	-1.472	-0.194	1.857
1836	29	B4	1	1.583	0.886	9.187
1837			2	0.49	0.886	0.99
1838			3	0.009	0.886	-0.218
1839			4	0.497	0.886	-1.476
1840			5	1.543	0.886	-9.578
1841	29	B5	1	-2.034	0.51	-12.818
1842			2	-0.56	0.51	0.544
1843			3	0.075	0.51	2.427
1844			4	0.172	0.51	1.011
1845			5	0.238	0.51	-1.105
1846	29	B6	1	-0.057	0.373	-1.185
1847			2	-0.018	0.373	-0.963
1848			3	-0.038	0.373	-0.863
1849			4	-0.178	0.373	-0.342
1850			5	-0.409	0.373	1.415
1851	29	B7	1	0.664	0.624	5.801
1852			2	0.41	0.624	2.995
1853			3	0.136	0.624	1.751
1854			4	-0.025	0.624	1.578
1855			5	0.017	0.624	1.642
1856	29	B8	1	0.079	1.818	5.311
1857			2	0.164	1.818	4.708
1858			3	0.236	1.818	3.762
1859			4	0.421	1.818	2.273
1860			5	0.711	1.818	-0.523
1861	29	B9	1	-0.727	4.37	-0.107
1862			2	-0.224	4.37	2.388
1863			3	0.674	4.37	1.29
1864			4	1.936	4.37	-4.9
1865			5	3.174	4.37	-17.769
1866	29	B10	1	-3.286	-5.684	-18.209
1867			2	-1.83	-5.684	-2.987
1868			3	-0.586	-5.684	3.712
1869			4	0.145	-5.684	4.914
1870			5	0.543	-5.684	2.784
1871	29	B11	1	-0.077	-1.387	2.119
1872			2	0.198	-1.387	1.913

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
1873			3	0.57	-1.387	0.274
1874			4	0.911	-1.387	-3.013
1875			5	1.269	-1.387	-8.089
1876	29	B12	1	-0.841	5.468	-7.845
1877			2	-0.636	5.468	-4.883
1878			3	-0.523	5.468	-2.681
1879			4	-0.705	5.468	-0.377
1880			5	-1.016	5.468	3.063
1881	29	B13	1	0.36	1.077	-7.84
1882			2	0.18	1.077	-8.387
1883			3	-0.261	1.077	-8.256
1884			4	-3.057	1.077	-3.834
1885			5	-3.428	1.077	2.5
1886	30	B1	1	-2.491	0	-34.683
1887			2	-3.06	0	-17.082
1888			3	-3.15	0	2.368
1889			4	-3.126	0	22.094
1890			5	-2.37	0	39.643
1891	30	B2	1	-1.562	0	-2.514
1892			2	-1.183	0	0.344
1893			3	0.389	0	1.322
1894			4	1.802	0	-0.186
1895			5	2.619	0	-4.79
1896	30	B3	1	2.266	-4.746	1.082
1897			2	1.297	-4.746	-11.124
1898			3	0.379	-4.746	-16.952
1899			4	-1.518	-4.746	-14.27
1900			5	-4.999	-4.746	7.668
1901	30	B4	1	1.124	3.644	-27.238
1902			2	-2.031	3.644	-21.874
1903			3	-1.976	3.644	-4.436
1904			4	-0.271	3.644	4.957
1905			5	3.218	3.644	-7.549
1906	30	B5	1	-7.976	2.07	-57
1907			2	-2.561	2.07	-1.851
1908			3	0.181	2.07	8.257
1909			4	0.722	2.07	2.899
1910			5	0.798	2.07	-5.298
1911	30	B6	1	0.013	1.245	-6.054
1912			2	-0.27	1.245	-5.632
1913			3	-1.155	1.245	-2.085
1914			4	-2.843	1.245	8.908
1915			5	-4.718	1.245	32.008
1916	30	B7	1	1.861	1.998	12.807
1917			2	0.471	1.998	6.817
1918			3	-0.878	1.998	8.41
1919			4	-1.096	1.998	13.779
1920			5	-0.267	1.998	17.507
1921	30	B8	1	-2.219	-0.095	-1.597
1922			2	-1.084	-0.095	6.583
1923			3	-0.087	-0.095	8.869
1924			4	0.806	-0.095	7.003

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
1925			5	1.417	-0.095	1.449
1926	30	B9	1	-1.399	2.468	-3.723
1927			2	-0.635	2.468	1.486
1928			3	0.47	2.468	1.834
1929			4	1.802	2.468	-3.555
1930			5	3.019	2.468	-15.715
1931	30	B10	1	-3.052	-6.865	-16.316
1932			2	-1.673	-6.865	-2.272
1933			3	-0.525	-6.865	3.798
1934			4	0.127	-6.865	4.869
1935			5	0.474	-6.865	3.005
1936	30	B11	1	0.018	-3.095	2.351
1937			2	0.265	-3.095	1.771
1938			3	0.614	-3.095	-0.121
1939			4	0.942	-3.095	-3.581
1940			5	1.282	-3.095	-8.754
1941	30	B12	1	-0.975	4.418	-8.882
1942			2	-0.767	4.418	-5.378
1943			3	-0.603	4.418	-2.749
1944			4	-0.669	4.418	-0.318
1945			5	-0.875	4.418	2.769
1946	30	B13	1	-0.637	0.98	-7.586
1947			2	-0.788	0.98	-6.227
1948			3	-1.216	0.98	-4.243
1949			4	-1.98	0.98	-1.18
1950			5	-2.389	0.98	3.109
1951	31	B1	1	-3.12	0	-1.416
1952			2	-1.121	0	11.451
1953			3	-1.178	0	17.784
1954			4	-2.521	0	29.125
1955			5	-3.95	0	50.233
1956	31	B2	1	6.352	0	49.231
1957			2	6.316	0	36.064
1958			3	6.642	0	22.792
1959			4	7.385	0	8.631
1960			5	7.924	0	-7.31
1961	31	B3	1	1.666	-0.566	1.294
1962			2	0.62	-0.566	-6.429
1963			3	-0.027	-0.566	-8.196
1964			4	-0.687	-0.566	-6.028
1965			5	-1.752	-0.566	2.231
1966	31	B4	1	1.547	0.999	6.219
1967			2	0.297	0.999	-0.879
1968			3	-0.154	0.999	-0.565
1969			4	0.46	0.999	-0.951
1970			5	1.679	0.999	-9.407
1971	31	B5	1	-2.52	0.439	-16.414
1972			2	-0.724	0.439	0.366
1973			3	0.088	0.439	2.908
1974			4	0.233	0.439	1.069
1975			5	0.308	0.439	-1.773
1976	31	B6	1	-0.048	-0.068	-1.86

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
1977			2	-0.038	-0.068	-1.63
1978			3	-0.151	-0.068	-1.192
1979			4	-0.465	-0.068	0.424
1980			5	-0.894	-0.068	4.536
1981	31	B7	1	0.933	-0.295	5.533
1982			2	0.515	-0.295	1.751
1983			3	-0.063	-0.295	0.617
1984			4	-0.459	-0.295	1.811
1985			5	-0.691	-0.295	4.847
1986	31	B8	1	0.099	1.91	2.437
1987			2	-0.004	1.91	2.212
1988			3	0.093	1.91	2.13
1989			4	0.456	1.91	1.054
1990			5	0.971	1.91	-2.462
1991	31	B9	1	-1.622	4.434	-6.549
1992			2	-0.842	4.434	-0.245
1993			3	0.342	4.434	0.946
1994			4	1.779	4.434	-4.049
1995			5	3.081	4.434	-16.321
1996	31	B10	1	-3.216	-5.676	-16.937
1997			2	-1.749	-5.676	-2.176
1998			3	-0.524	-5.676	4.094
1999			4	0.186	-5.676	4.991
2000			5	0.575	-5.676	2.649
2001	31	B11	1	-0.082	-1.384	1.997
2002			2	0.191	-1.384	1.82
2003			3	0.562	-1.384	0.217
2004			4	0.904	-1.384	-3.035
2005			5	1.262	-1.384	-8.078
2006	31	B12	1	-0.843	5.465	-7.842
2007			2	-0.638	5.465	-4.872
2008			3	-0.523	5.465	-2.666
2009			4	-0.703	5.465	-0.364
2010			5	-1.011	5.465	3.061
2011	31	B13	1	0.344	1.073	-7.851
2012			2	0.165	1.073	-8.369
2013			3	-0.274	1.073	-8.212
2014			4	-3.046	1.073	-3.801
2015			5	-3.417	1.073	2.512
2016	32	B1	1	-3.14	0	-0.373
2017			2	-1.06	0	12.347
2018			3	-1.116	0	18.271
2019			4	-2.502	0	29.353
2020			5	-4	0	50.576
2021	32	B2	1	6.601	0	50.867
2022			2	6.539	0	37.195
2023			3	6.84	0	23.473
2024			4	7.563	0	8.91
2025			5	8.093	0	-7.392
2026	32	B3	1	1.639	-0.38	1.302
2027			2	0.59	-0.38	-6.22
2028			3	-0.047	-0.38	-7.798

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
2029			4	-0.654	-0.38	-5.635
2030			5	-1.612	-0.38	2.044
2031	32	B4	1	1.565	0.942	7.703
2032			2	0.394	0.942	0.055
2033			3	-0.073	0.942	-0.392
2034			4	0.479	0.942	-1.214
2035			5	1.611	0.942	-9.492
2036	32	B5	1	-2.277	0.474	-14.616
2037			2	-0.642	0.474	0.455
2038			3	0.082	0.474	2.668
2039			4	0.202	0.474	1.04
2040			5	0.273	0.474	-1.439
2041	32	B6	1	-0.053	0.153	-1.522
2042			2	-0.026	0.153	-1.297
2043			3	-0.094	0.153	-1.027
2044			4	-0.322	0.153	0.041
2045			5	-0.652	0.153	2.976
2046	32	B7	1	0.798	0.164	5.667
2047			2	0.463	0.164	2.373
2048			3	0.081	0.164	1.184
2049			4	-0.242	0.164	1.695
2050			5	-0.337	0.164	3.245
2051	32	B8	1	0.089	1.864	3.874
2052			2	0.08	1.864	3.46
2053			3	0.164	1.864	2.946
2054			4	0.438	1.864	1.664
2055			5	0.841	1.864	-1.492
2056	32	B9	1	-1.175	4.402	-3.328
2057			2	-0.533	4.402	1.072
2058			3	0.508	4.402	1.118
2059			4	1.857	4.402	-4.475
2060			5	3.128	4.402	-17.045
2061	32	B10	1	-3.251	-5.68	-17.573
2062			2	-1.79	-5.68	-2.582
2063			3	-0.555	-5.68	3.903
2064			4	0.165	-5.68	4.953
2065			5	0.559	-5.68	2.716
2066	32	B11	1	-0.08	-1.385	2.058
2067			2	0.194	-1.385	1.866
2068			3	0.566	-1.385	0.246
2069			4	0.908	-1.385	-3.024
2070			5	1.265	-1.385	-8.084
2071	32	B12	1	-0.842	5.467	-7.844
2072			2	-0.637	5.467	-4.877
2073			3	-0.523	5.467	-2.673
2074			4	-0.704	5.467	-0.371
2075			5	-1.014	5.467	3.062
2076	32	B13	1	0.352	1.075	-7.845
2077			2	0.173	1.075	-8.378
2078			3	-0.268	1.075	-8.234
2079			4	-3.051	1.075	-3.817
2080			5	-3.423	1.075	2.506

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
2081	33	B1	1	-3.14	0	-0.373
2082			2	-1.06	0	12.347
2083			3	-1.116	0	18.271
2084			4	-2.502	0	29.353
2085			5	-4	0	50.576
2086	33	B2	1	6.601	0	50.867
2087			2	6.539	0	37.195
2088			3	6.84	0	23.473
2089			4	7.563	0	8.91
2090			5	8.093	0	-7.392
2091	33	B3	1	1.639	-0.38	1.302
2092			2	0.59	-0.38	-6.22
2093			3	-0.047	-0.38	-7.798
2094			4	-0.654	-0.38	-5.635
2095			5	-1.612	-0.38	2.044
2096	33	B4	1	1.565	0.942	7.703
2097			2	0.394	0.942	0.055
2098			3	-0.073	0.942	-0.392
2099			4	0.479	0.942	-1.214
2100			5	1.611	0.942	-9.492
2101	33	B5	1	-2.277	0.474	-14.616
2102			2	-0.642	0.474	0.455
2103			3	0.082	0.474	2.668
2104			4	0.202	0.474	1.04
2105			5	0.273	0.474	-1.439
2106	33	B6	1	-0.053	0.153	-1.522
2107			2	-0.026	0.153	-1.297
2108			3	-0.094	0.153	-1.027
2109			4	-0.322	0.153	0.041
2110			5	-0.652	0.153	2.976
2111	33	B7	1	0.798	0.164	5.667
2112			2	0.463	0.164	2.373
2113			3	0.081	0.164	1.184
2114			4	-0.242	0.164	1.695
2115			5	-0.337	0.164	3.245
2116	33	B8	1	0.089	1.864	3.874
2117			2	0.08	1.864	3.46
2118			3	0.164	1.864	2.946
2119			4	0.438	1.864	1.664
2120			5	0.841	1.864	-1.492
2121	33	B9	1	-1.175	4.402	-3.328
2122			2	-0.533	4.402	1.072
2123			3	0.508	4.402	1.118
2124			4	1.857	4.402	-4.475
2125			5	3.128	4.402	-17.045
2126	33	B10	1	-3.251	-5.68	-17.573
2127			2	-1.79	-5.68	-2.582
2128			3	-0.555	-5.68	3.903
2129			4	0.165	-5.68	4.953
2130			5	0.559	-5.68	2.716
2131	33	B11	1	-0.08	-1.385	2.058
2132			2	0.194	-1.385	1.866

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
2133			3	0.566	-1.385	0.246
2134			4	0.908	-1.385	-3.024
2135			5	1.265	-1.385	-8.084
2136	33	B12	1	-0.842	5.467	-7.844
2137			2	-0.637	5.467	-4.877
2138			3	-0.523	5.467	-2.673
2139			4	-0.704	5.467	-0.371
2140			5	-1.014	5.467	3.062
2141	33	B13	1	0.352	1.075	-7.845
2142			2	0.173	1.075	-8.378
2143			3	-0.268	1.075	-8.234
2144			4	-3.051	1.075	-3.817
2145			5	-3.423	1.075	2.506
2146	34	B1	1	-3.14	0	-0.373
2147			2	-1.06	0	12.347
2148			3	-1.116	0	18.271
2149			4	-2.502	0	29.353
2150			5	-4	0	50.576
2151	34	B2	1	6.601	0	50.867
2152			2	6.539	0	37.195
2153			3	6.84	0	23.473
2154			4	7.563	0	8.91
2155			5	8.093	0	-7.392
2156	34	B3	1	1.639	-0.38	1.302
2157			2	0.59	-0.38	-6.22
2158			3	-0.047	-0.38	-7.798
2159			4	-0.654	-0.38	-5.635
2160			5	-1.612	-0.38	2.044
2161	34	B4	1	1.565	0.942	7.703
2162			2	0.394	0.942	0.055
2163			3	-0.073	0.942	-0.392
2164			4	0.479	0.942	-1.214
2165			5	1.611	0.942	-9.492
2166	34	B5	1	-2.277	0.474	-14.616
2167			2	-0.642	0.474	0.455
2168			3	0.082	0.474	2.668
2169			4	0.202	0.474	1.04
2170			5	0.273	0.474	-1.439
2171	34	B6	1	-0.053	0.153	-1.522
2172			2	-0.026	0.153	-1.297
2173			3	-0.094	0.153	-1.027
2174			4	-0.322	0.153	0.041
2175			5	-0.652	0.153	2.976
2176	34	B7	1	0.798	0.164	5.667
2177			2	0.463	0.164	2.373
2178			3	0.081	0.164	1.184
2179			4	-0.242	0.164	1.695
2180			5	-0.337	0.164	3.245
2181	34	B8	1	0.089	1.864	3.874
2182			2	0.08	1.864	3.46
2183			3	0.164	1.864	2.946
2184			4	0.438	1.864	1.664

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
2185			5	0.841	1.864	-1.492
2186	34	B9	1	-1.175	4.402	-3.328
2187			2	-0.533	4.402	1.072
2188			3	0.508	4.402	1.118
2189			4	1.857	4.402	-4.475
2190			5	3.128	4.402	-17.045
2191	34	B10	1	-3.251	-5.68	-17.573
2192			2	-1.79	-5.68	-2.582
2193			3	-0.555	-5.68	3.903
2194			4	0.165	-5.68	4.953
2195			5	0.559	-5.68	2.716
2196	34	B11	1	-0.08	-1.385	2.058
2197			2	0.194	-1.385	1.866
2198			3	0.566	-1.385	0.246
2199			4	0.908	-1.385	-3.024
2200			5	1.265	-1.385	-8.084
2201	34	B12	1	-0.842	5.467	-7.844
2202			2	-0.637	5.467	-4.877
2203			3	-0.523	5.467	-2.673
2204			4	-0.704	5.467	-0.371
2205			5	-1.014	5.467	3.062
2206	34	B13	1	0.352	1.075	-7.845
2207			2	0.173	1.075	-8.378
2208			3	-0.268	1.075	-8.234
2209			4	-3.051	1.075	-3.817
2210			5	-3.423	1.075	2.506
2211	35	B1	1	-3.14	0	-0.373
2212			2	-1.06	0	12.347
2213			3	-1.116	0	18.271
2214			4	-2.502	0	29.353
2215			5	-4	0	50.576
2216	35	B2	1	6.601	0	50.867
2217			2	6.539	0	37.195
2218			3	6.84	0	23.473
2219			4	7.563	0	8.91
2220			5	8.093	0	-7.392
2221	35	B3	1	1.639	-0.38	1.302
2222			2	0.59	-0.38	-6.22
2223			3	-0.047	-0.38	-7.798
2224			4	-0.654	-0.38	-5.635
2225			5	-1.612	-0.38	2.044
2226	35	B4	1	1.565	0.942	7.703
2227			2	0.394	0.942	0.055
2228			3	-0.073	0.942	-0.392
2229			4	0.479	0.942	-1.214
2230			5	1.611	0.942	-9.492
2231	35	B5	1	-2.277	0.474	-14.616
2232			2	-0.642	0.474	0.455
2233			3	0.082	0.474	2.668
2234			4	0.202	0.474	1.04
2235			5	0.273	0.474	-1.439
2236	35	B6	1	-0.053	0.153	-1.522

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
2237			2	-0.026	0.153	-1.297
2238			3	-0.094	0.153	-1.027
2239			4	-0.322	0.153	0.041
2240			5	-0.652	0.153	2.976
2241	35	B7	1	0.798	0.164	5.667
2242			2	0.463	0.164	2.373
2243			3	0.081	0.164	1.184
2244			4	-0.242	0.164	1.695
2245			5	-0.337	0.164	3.245
2246	35	B8	1	0.089	1.864	3.874
2247			2	0.08	1.864	3.46
2248			3	0.164	1.864	2.946
2249			4	0.438	1.864	1.664
2250			5	0.841	1.864	-1.492
2251	35	B9	1	-1.175	4.402	-3.328
2252			2	-0.533	4.402	1.072
2253			3	0.508	4.402	1.118
2254			4	1.857	4.402	-4.475
2255			5	3.128	4.402	-17.045
2256	35	B10	1	-3.251	-5.68	-17.573
2257			2	-1.79	-5.68	-2.582
2258			3	-0.555	-5.68	3.903
2259			4	0.165	-5.68	4.953
2260			5	0.559	-5.68	2.716
2261	35	B11	1	-0.08	-1.385	2.058
2262			2	0.194	-1.385	1.866
2263			3	0.566	-1.385	0.246
2264			4	0.908	-1.385	-3.024
2265			5	1.265	-1.385	-8.084
2266	35	B12	1	-0.842	5.467	-7.844
2267			2	-0.637	5.467	-4.877
2268			3	-0.523	5.467	-2.673
2269			4	-0.704	5.467	-0.371
2270			5	-1.014	5.467	3.062
2271	35	B13	1	0.352	1.075	-7.845
2272			2	0.173	1.075	-8.378
2273			3	-0.268	1.075	-8.234
2274			4	-3.051	1.075	-3.817
2275			5	-3.423	1.075	2.506
2276	36	B1	1	-3.006	0	34.115
2277			2	1.209	0	38.763
2278			3	1.2	0	29.652
2279			4	-1.253	0	29.303
2280			5	-4.635	0	48.911
2281	36	B2	1	13.137	0	91.685
2282			2	12.631	0	64.854
2283			3	11.846	0	39.821
2284			4	11.465	0	15.806
2285			5	11.561	0	-8.156
2286	36	B3	1	0.601	4.093	1.198
2287			2	-0.267	4.093	0.253
2288			3	-0.462	4.093	3.331

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
2289			4	0.378	4.093	4.43
2290			5	2.189	4.093	-4.117
2291	36	B4	1	1.617	-2.013	40.82
2292			2	2.573	-2.013	22.034
2293			3	1.854	-2.013	3.763
2294			4	0.908	-2.013	-7.1
2295			5	-0.403	-2.013	-9.069
2296	36	B5	1	4.008	-1.263	31.547
2297			2	1.443	-1.263	2.654
2298			3	-0.038	-1.263	-3.604
2299			4	-0.369	-1.263	-1.086
2300			5	-0.321	-1.263	2.784
2301	36	B6	1	-0.103	-1.025	3.403
2302			2	0.229	-1.025	3.359
2303			3	0.999	-1.025	0.245
2304			4	2.296	-1.025	-8.955
2305			5	3.598	-1.025	-27.032
2306	36	B7	1	-0.448	-1.806	-3.204
2307			2	0.497	-1.806	-3.049
2308			3	0.882	-1.806	-6.71
2309			4	0.672	-1.806	-10.945
2310			5	-0.495	-1.806	-11.286
2311	36	B8	1	2.535	3.668	8.481
2312			2	1.295	3.668	-1.004
2313			3	0.314	3.668	-4.305
2314			4	-0.14	3.668	-4.408
2315			5	-0.112	3.668	-3.707
2316	36	B9	1	-0.497	5.409	-1.602
2317			2	-0.215	5.409	0.274
2318			3	0.403	5.409	-0.151
2319			4	1.322	5.409	-4.212
2320			5	2.227	5.409	-13.154
2321	36	B10	1	-2.379	-2.98	-13.458
2322			2	-1.323	-2.98	-2.45
2323			3	-0.447	-2.98	2.447
2324			4	0.015	-2.98	3.616
2325			5	0.211	-2.98	2.877
2326	36	B11	1	0.12	0.512	2.408
2327			2	0.229	0.512	1.638
2328			3	0.381	0.512	0.298
2329			4	0.535	0.512	-1.749
2330			5	0.706	0.512	-4.628
2331	36	B12	1	-0.271	4.533	-4.152
2332			2	-0.2	4.533	-3.219
2333			3	-0.296	4.533	-2.342
2334			4	-0.614	4.533	-0.741
2335			5	-1.011	4.533	2.507
2336	36	B13	1	1.432	0.895	-5.368
2337			2	1.25	0.895	-7.992
2338			3	0.878	0.895	-9.998
2339			4	-3.282	0.895	-5.515
2340			5	-3.529	0.895	1.117

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
2341	37	B1	1	-2.377	0	0.848
2342			2	-0.73	0	10.231
2343			3	-0.772	0	14.235
2344			4	-1.858	0	22.272
2345			5	-3.055	0	38.321
2346	37	B2	1	5.223	0	39.939
2347			2	5.154	0	29.134
2348			3	5.347	0	18.351
2349			4	5.868	0	6.989
2350			5	6.257	0	-5.636
2351	37	B3	1	1.201	-0.086	0.986
2352			2	0.41	-0.086	-4.441
2353			3	-0.056	-0.086	-5.425
2354			4	-0.454	-0.086	-3.812
2355			5	-1.058	-0.086	1.32
2356	37	B4	1	1.193	0.632	7.364
2357			2	0.398	0.632	1.04
2358			3	0.032	0.632	-0.108
2359			4	0.378	0.632	-1.191
2360			5	1.136	0.632	-7.211
2361	37	B5	1	-1.448	0.368	-9.039
2362			2	-0.394	0.368	0.437
2363			3	0.054	0.368	1.745
2364			4	0.12	0.368	0.744
2365			5	0.169	0.368	-0.742
2366	37	B6	1	-0.042	0.288	-0.791
2367			2	-0.008	0.288	-0.643
2368			3	-0.004	0.288	-0.649
2369			4	-0.081	0.288	-0.471
2370			5	-0.226	0.288	0.44
2371	37	B7	1	0.48	0.487	4.07
2372			2	0.305	0.487	2.017
2373			3	0.101	0.487	1.083
2374			4	-0.053	0.487	1.022
2375			5	-0.072	0.487	1.374
2376	37	B8	1	0.216	1.663	4.447
2377			2	0.208	1.663	3.366
2378			3	0.173	1.663	2.434
2379			4	0.211	1.663	1.541
2380			5	0.334	1.663	0.204
2381	37	B9	1	-0.274	3.442	1.224
2382			2	-0.008	3.442	2.004
2383			3	0.531	3.442	0.737
2384			4	1.345	3.442	-3.718
2385			5	2.164	3.442	-12.548
2386	37	B10	1	-2.214	-4.169	-12.836
2387			2	-1.247	-4.169	-2.546
2388			3	-0.448	-4.169	2.15
2389			4	-0.043	-4.169	3.494
2390			5	0.11	-4.169	3.233
2391	37	B11	1	0.221	-1.199	2.762
2392			2	0.303	-1.199	1.588

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
2393			3	0.433	-1.199	-0.04
2394			4	0.573	-1.199	-2.295
2395			5	0.726	-1.199	-5.304
2396	37	B12	1	-0.403	3.486	-5.192
2397			2	-0.329	3.486	-3.726
2398			3	-0.362	3.486	-2.425
2399			4	-0.581	3.486	-0.694
2400			5	-0.874	3.486	2.215
2401	37	B13	1	0.451	0.802	-5.103
2402			2	0.297	0.802	-5.849
2403			3	-0.064	0.802	-6.029
2404			4	-2.216	0.802	-2.894
2405			5	-2.501	0.802	1.715
2406	38	B1	1	-1.708	0	-34.506
2407			2	-2.79	0	-20.094
2408			3	-2.866	0	-2.156
2409			4	-2.5	0	14.785
2410			5	-1.375	0	27.045
2411	38	B2	1	-3.191	0	-15.079
2412			2	-2.794	0	-8.847
2413			3	-1.848	0	-4.481
2414			4	-0.709	0	-2.387
2415			5	0.614	0	-2.953
2416	38	B3	1	1.858	-4.648	0.754
2417			2	1.151	-4.648	-9.584
2418			3	0.389	-4.648	-15.019
2419			4	-1.364	-4.648	-12.844
2420			5	-4.515	-4.648	7.146
2421	38	B4	1	0.724	3.397	-29.034
2422			2	-2.092	3.397	-21.872
2423			3	-1.955	3.397	-4.376
2424			4	-0.363	3.397	5.219
2425			5	2.808	3.397	-5.182
2426	38	B5	1	-7.39	1.931	-53.222
2427			2	-2.395	1.931	-1.956
2428			3	0.16	1.931	7.575
2429			4	0.67	1.931	2.633
2430			5	0.729	1.931	-4.935
2431	38	B6	1	0.028	1.162	-5.661
2432			2	-0.259	1.162	-5.312
2433			3	-1.122	1.162	-1.872
2434			4	-2.746	1.162	8.779
2435			5	-4.536	1.162	31.033
2436	38	B7	1	1.676	1.863	11.075
2437			2	0.366	1.863	5.839
2438			3	-0.905	1.863	7.741
2439			4	-1.118	1.863	13.224
2440			5	-0.356	1.863	17.239
2441	38	B8	1	-2.082	-0.25	-2.462
2442			2	-1.029	-0.25	5.24
2443			3	-0.131	-0.25	7.542
2444			4	0.596	-0.25	6.271

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
2445			5	1.04	-0.25	2.175
2446	38	B9	1	-0.947	1.541	-2.392
2447			2	-0.419	1.541	1.102
2448			3	0.327	1.541	1.282
2449			4	1.21	1.541	-2.372
2450			5	2.009	1.541	-10.494
2451	38	B10	1	-1.979	-5.35	-10.944
2452			2	-1.089	-5.35	-1.831
2453			3	-0.386	-5.35	2.236
2454			4	-0.06	-5.35	3.448
2455			5	0.041	-5.35	3.454
2456	38	B11	1	0.316	-2.907	2.994
2457			2	0.369	-2.907	1.446
2458			3	0.477	-2.907	-0.435
2459			4	0.604	-2.907	-2.863
2460			5	0.738	-2.907	-5.969
2461	38	B12	1	-0.537	2.436	-6.229
2462			2	-0.461	2.436	-4.221
2463			3	-0.428	2.436	-2.493
2464			4	-0.545	2.436	-0.636
2465			5	-0.732	2.436	1.921
2466	38	B13	1	-0.545	0.706	-4.849
2467			2	-0.67	0.706	-3.689
2468			3	-1.019	0.706	-2.016
2469			4	-1.14	0.706	-0.24
2470			5	-1.462	0.706	2.325
2471	39	B1	1	-2.337	0	-1.239
2472			2	-0.851	0	8.438
2473			3	-0.894	0	13.261
2474			4	-1.895	0	21.817
2475			5	-2.955	0	37.634
2476	39	B2	1	4.724	0	36.666
2477			2	4.702	0	26.872
2478			3	4.951	0	16.99
2479			4	5.513	0	6.43
2480			5	5.919	0	-5.473
2481	39	B3	1	1.254	-0.458	0.969
2482			2	0.471	-0.458	-4.86
2483			3	-0.016	-0.458	-6.221
2484			4	-0.52	-0.458	-4.599
2485			5	-1.338	-0.458	1.694
2486	39	B4	1	1.157	0.745	4.396
2487			2	0.206	0.745	-0.829
2488			3	-0.13	0.745	-0.456
2489			4	0.342	0.745	-0.666
2490			5	1.272	0.745	-7.039
2491	39	B5	1	-1.934	0.297	-12.635
2492			2	-0.558	0.297	0.26
2493			3	0.067	0.297	2.226
2494			4	0.181	0.297	0.803
2495			5	0.239	0.297	-1.409
2496	39	B6	1	-0.033	-0.153	-1.466

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
2497			2	-0.027	-0.153	-1.31
2498			3	-0.118	-0.153	-0.978
2499			4	-0.368	-0.153	0.295
2500			5	-0.712	-0.153	3.561
2501	39	B7	1	0.749	-0.431	3.802
2502			2	0.41	-0.431	0.773
2503			3	-0.09	-0.431	-0.051
2504			4	-0.487	-0.431	1.256
2505			5	-0.78	-0.431	4.579
2506	39	B8	1	0.237	1.754	1.573
2507			2	0.058	1.754	0.87
2508			3	0.027	1.754	0.803
2509			4	0.246	1.754	0.322
2510			5	0.594	1.754	-1.736
2511	39	B9	1	-1.17	3.507	-5.218
2512			2	-0.626	3.507	-0.629
2513			3	0.199	3.507	0.394
2514			4	1.187	3.507	-2.867
2515			5	2.072	3.507	-11.1
2516	39	B10	1	-2.144	-4.161	-11.565
2517			2	-1.166	-4.161	-1.736
2518			3	-0.386	-4.161	2.533
2519			4	-0.002	-4.161	3.57
2520			5	0.142	-4.161	3.098
2521	39	B11	1	0.215	-1.196	2.64
2522			2	0.295	-1.196	1.496
2523			3	0.425	-1.196	-0.097
2524			4	0.566	-1.196	-2.317
2525			5	0.719	-1.196	-5.293
2526	39	B12	1	-0.405	3.483	-5.189
2527			2	-0.331	3.483	-3.715
2528			3	-0.362	3.483	-2.41
2529			4	-0.578	3.483	-0.682
2530			5	-0.869	3.483	2.213
2531	39	B13	1	0.436	0.798	-5.114
2532			2	0.282	0.798	-5.832
2533			3	-0.077	0.798	-5.985
2534			4	-2.205	0.798	-2.861
2535			5	-2.49	0.798	1.727
2536	40	B1	1	-2.357	0	-0.196
2537			2	-0.791	0	9.334
2538			3	-0.833	0	13.748
2539			4	-1.876	0	22.044
2540			5	-3.005	0	37.978
2541	40	B2	1	4.973	0	38.303
2542			2	4.924	0	28.003
2543			3	5.149	0	17.67
2544			4	5.69	0	6.71
2545			5	6.088	0	-5.554
2546	40	B3	1	1.227	-0.272	0.978
2547			2	0.44	-0.272	-4.651
2548			3	-0.036	-0.272	-5.823

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
2549			4	-0.487	-0.272	-4.205
2550			5	-1.198	-0.272	1.507
2551	40	B4	1	1.175	0.688	5.88
2552			2	0.302	0.688	0.106
2553			3	-0.049	0.688	-0.282
2554			4	0.36	0.688	-0.929
2555			5	1.204	0.688	-7.125
2556	40	B5	1	-1.691	0.332	-10.837
2557			2	-0.476	0.332	0.349
2558			3	0.061	0.332	1.985
2559			4	0.15	0.332	0.774
2560			5	0.204	0.332	-1.075
2561	40	B6	1	-0.037	0.067	-1.129
2562			2	-0.016	0.067	-0.976
2563			3	-0.061	0.067	-0.813
2564			4	-0.225	0.067	-0.088
2565			5	-0.469	0.067	2.001
2566	40	B7	1	0.614	0.028	3.936
2567			2	0.357	0.028	1.395
2568			3	0.046	0.028	0.516
2569			4	-0.27	0.028	1.139
2570			5	-0.426	0.028	2.976
2571	40	B8	1	0.226	1.709	3.01
2572			2	0.133	1.709	2.118
2573			3	0.099	1.709	1.619
2574			4	0.228	1.709	0.932
2575			5	0.464	1.709	-0.766
2576	40	B9	1	-0.722	3.475	-1.997
2577			2	-0.317	3.475	0.688
2578			3	0.365	3.475	0.566
2579			4	1.266	3.475	-3.292
2580			5	2.118	3.475	-11.824
2581	40	B10	1	-2.179	-4.165	-12.201
2582			2	-1.206	-4.165	-2.141
2583			3	-0.417	-4.165	2.342
2584			4	-0.023	-4.165	3.532
2585			5	0.126	-4.165	3.166
2586	40	B11	1	0.218	-1.197	2.701
2587			2	0.299	-1.197	1.542
2588			3	0.429	-1.197	-0.069
2589			4	0.57	-1.197	-2.306
2590			5	0.722	-1.197	-5.299
2591	40	B12	1	-0.404	3.484	-5.191
2592			2	-0.33	3.484	-3.72
2593			3	-0.362	3.484	-2.418
2594			4	-0.579	3.484	-0.688
2595			5	-0.871	3.484	2.214
2596	40	B13	1	0.444	0.8	-5.109
2597			2	0.29	0.8	-5.84
2598			3	-0.071	0.8	-6.007
2599			4	-2.211	0.8	-2.878
2600			5	-2.495	0.8	1.721

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
2601	41	B1	1	-2.357	0	-0.196
2602			2	-0.791	0	9.334
2603			3	-0.833	0	13.748
2604			4	-1.876	0	22.044
2605			5	-3.005	0	37.978
2606	41	B2	1	4.973	0	38.303
2607			2	4.924	0	28.003
2608			3	5.149	0	17.67
2609			4	5.69	0	6.71
2610			5	6.088	0	-5.554
2611	41	B3	1	1.227	-0.272	0.978
2612			2	0.44	-0.272	-4.651
2613			3	-0.036	-0.272	-5.823
2614			4	-0.487	-0.272	-4.205
2615			5	-1.198	-0.272	1.507
2616	41	B4	1	1.175	0.688	5.88
2617			2	0.302	0.688	0.106
2618			3	-0.049	0.688	-0.282
2619			4	0.36	0.688	-0.929
2620			5	1.204	0.688	-7.125
2621	41	B5	1	-1.691	0.332	-10.837
2622			2	-0.476	0.332	0.349
2623			3	0.061	0.332	1.985
2624			4	0.15	0.332	0.774
2625			5	0.204	0.332	-1.075
2626	41	B6	1	-0.037	0.067	-1.129
2627			2	-0.016	0.067	-0.976
2628			3	-0.061	0.067	-0.813
2629			4	-0.225	0.067	-0.088
2630			5	-0.469	0.067	2.001
2631	41	B7	1	0.614	0.028	3.936
2632			2	0.357	0.028	1.395
2633			3	0.046	0.028	0.516
2634			4	-0.27	0.028	1.139
2635			5	-0.426	0.028	2.976
2636	41	B8	1	0.226	1.709	3.01
2637			2	0.133	1.709	2.118
2638			3	0.099	1.709	1.619
2639			4	0.228	1.709	0.932
2640			5	0.464	1.709	-0.766
2641	41	B9	1	-0.722	3.475	-1.997
2642			2	-0.317	3.475	0.688
2643			3	0.365	3.475	0.566
2644			4	1.266	3.475	-3.292
2645			5	2.118	3.475	-11.824
2646	41	B10	1	-2.179	-4.165	-12.201
2647			2	-1.206	-4.165	-2.141
2648			3	-0.417	-4.165	2.342
2649			4	-0.023	-4.165	3.532
2650			5	0.126	-4.165	3.166
2651	41	B11	1	0.218	-1.197	2.701
2652			2	0.299	-1.197	1.542

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
2653			3	0.429	-1.197	-0.069
2654			4	0.57	-1.197	-2.306
2655			5	0.722	-1.197	-5.299
2656	41	B12	1	-0.404	3.484	-5.191
2657			2	-0.33	3.484	-3.72
2658			3	-0.362	3.484	-2.418
2659			4	-0.579	3.484	-0.688
2660			5	-0.871	3.484	2.214
2661	41	B13	1	0.444	0.8	-5.109
2662			2	0.29	0.8	-5.84
2663			3	-0.071	0.8	-6.007
2664			4	-2.211	0.8	-2.878
2665			5	-2.495	0.8	1.721
2666	42	B1	1	-2.357	0	-0.196
2667			2	-0.791	0	9.334
2668			3	-0.833	0	13.748
2669			4	-1.876	0	22.044
2670			5	-3.005	0	37.978
2671	42	B2	1	4.973	0	38.303
2672			2	4.924	0	28.003
2673			3	5.149	0	17.67
2674			4	5.69	0	6.71
2675			5	6.088	0	-5.554
2676	42	B3	1	1.227	-0.272	0.978
2677			2	0.44	-0.272	-4.651
2678			3	-0.036	-0.272	-5.823
2679			4	-0.487	-0.272	-4.205
2680			5	-1.198	-0.272	1.507
2681	42	B4	1	1.175	0.688	5.88
2682			2	0.302	0.688	0.106
2683			3	-0.049	0.688	-0.282
2684			4	0.36	0.688	-0.929
2685			5	1.204	0.688	-7.125
2686	42	B5	1	-1.691	0.332	-10.837
2687			2	-0.476	0.332	0.349
2688			3	0.061	0.332	1.985
2689			4	0.15	0.332	0.774
2690			5	0.204	0.332	-1.075
2691	42	B6	1	-0.037	0.067	-1.129
2692			2	-0.016	0.067	-0.976
2693			3	-0.061	0.067	-0.813
2694			4	-0.225	0.067	-0.088
2695			5	-0.469	0.067	2.001
2696	42	B7	1	0.614	0.028	3.936
2697			2	0.357	0.028	1.395
2698			3	0.046	0.028	0.516
2699			4	-0.27	0.028	1.139
2700			5	-0.426	0.028	2.976
2701	42	B8	1	0.226	1.709	3.01
2702			2	0.133	1.709	2.118
2703			3	0.099	1.709	1.619
2704			4	0.228	1.709	0.932

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
2705			5	0.464	1.709	-0.766
2706	42	B9	1	-0.722	3.475	-1.997
2707			2	-0.317	3.475	0.688
2708			3	0.365	3.475	0.566
2709			4	1.266	3.475	-3.292
2710			5	2.118	3.475	-11.824
2711	42	B10	1	-2.179	-4.165	-12.201
2712			2	-1.206	-4.165	-2.141
2713			3	-0.417	-4.165	2.342
2714			4	-0.023	-4.165	3.532
2715			5	0.126	-4.165	3.166
2716	42	B11	1	0.218	-1.197	2.701
2717			2	0.299	-1.197	1.542
2718			3	0.429	-1.197	-0.069
2719			4	0.57	-1.197	-2.306
2720			5	0.722	-1.197	-5.299
2721	42	B12	1	-0.404	3.484	-5.191
2722			2	-0.33	3.484	-3.72
2723			3	-0.362	3.484	-2.418
2724			4	-0.579	3.484	-0.688
2725			5	-0.871	3.484	2.214
2726	42	B13	1	0.444	0.8	-5.109
2727			2	0.29	0.8	-5.84
2728			3	-0.071	0.8	-6.007
2729			4	-2.211	0.8	-2.878
2730			5	-2.495	0.8	1.721
2731	43	B1	1	-2.357	0	-0.196
2732			2	-0.791	0	9.334
2733			3	-0.833	0	13.748
2734			4	-1.876	0	22.044
2735			5	-3.005	0	37.978
2736	43	B2	1	4.973	0	38.303
2737			2	4.924	0	28.003
2738			3	5.149	0	17.67
2739			4	5.69	0	6.71
2740			5	6.088	0	-5.554
2741	43	B3	1	1.227	-0.272	0.978
2742			2	0.44	-0.272	-4.651
2743			3	-0.036	-0.272	-5.823
2744			4	-0.487	-0.272	-4.205
2745			5	-1.198	-0.272	1.507
2746	43	B4	1	1.175	0.688	5.88
2747			2	0.302	0.688	0.106
2748			3	-0.049	0.688	-0.282
2749			4	0.36	0.688	-0.929
2750			5	1.204	0.688	-7.125
2751	43	B5	1	-1.691	0.332	-10.837
2752			2	-0.476	0.332	0.349
2753			3	0.061	0.332	1.985
2754			4	0.15	0.332	0.774
2755			5	0.204	0.332	-1.075
2756	43	B6	1	-0.037	0.067	-1.129

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
2757			2	-0.016	0.067	-0.976
2758			3	-0.061	0.067	-0.813
2759			4	-0.225	0.067	-0.088
2760			5	-0.469	0.067	2.001
2761	43	B7	1	0.614	0.028	3.936
2762			2	0.357	0.028	1.395
2763			3	0.046	0.028	0.516
2764			4	-0.27	0.028	1.139
2765			5	-0.426	0.028	2.976
2766	43	B8	1	0.226	1.709	3.01
2767			2	0.133	1.709	2.118
2768			3	0.099	1.709	1.619
2769			4	0.228	1.709	0.932
2770			5	0.464	1.709	-0.766
2771	43	B9	1	-0.722	3.475	-1.997
2772			2	-0.317	3.475	0.688
2773			3	0.365	3.475	0.566
2774			4	1.266	3.475	-3.292
2775			5	2.118	3.475	-11.824
2776	43	B10	1	-2.179	-4.165	-12.201
2777			2	-1.206	-4.165	-2.141
2778			3	-0.417	-4.165	2.342
2779			4	-0.023	-4.165	3.532
2780			5	0.126	-4.165	3.166
2781	43	B11	1	0.218	-1.197	2.701
2782			2	0.299	-1.197	1.542
2783			3	0.429	-1.197	-0.069
2784			4	0.57	-1.197	-2.306
2785			5	0.722	-1.197	-5.299
2786	43	B12	1	-0.404	3.484	-5.191
2787			2	-0.33	3.484	-3.72
2788			3	-0.362	3.484	-2.418
2789			4	-0.579	3.484	-0.688
2790			5	-0.871	3.484	2.214
2791	43	B13	1	0.444	0.8	-5.109
2792			2	0.29	0.8	-5.84
2793			3	-0.071	0.8	-6.007
2794			4	-2.211	0.8	-2.878
2795			5	-2.495	0.8	1.721
2796	44	B1	1	-3.078	0	0.096
2797			2	-1.367	0	13.705
2798			3	-1.319	0	21.429
2799			4	-2.288	0	32.53
2800			5	-3.304	0	50.666
2801	44	B2	1	6.376	0	50.711
2802			2	6.374	0	37.466
2803			3	6.642	0	24.091
2804			4	7.222	0	10
2805			5	7.636	0	-5.471
2806	44	B3	1	1.481	-0.354	0.923
2807			2	0.587	-0.354	-6.116
2808			3	-0.038	-0.354	-7.775

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
2809			4	-0.632	-0.354	-5.655
2810			5	-1.441	-0.354	1.424
2811	44	B4	1	1.293	0.65	6.666
2812			2	0.362	0.65	0.196
2813			3	0.018	0.65	-0.634
2814			4	0.488	0.65	-2.002
2815			5	1.401	0.65	-9.535
2816	44	B5	1	-1.971	0.312	-13.687
2817			2	-0.645	0.312	-0.075
2818			3	0.036	0.312	2.586
2819			4	0.205	0.312	1.183
2820			5	0.276	0.312	-1.379
2821	44	B6	1	-0.036	-0.011	-1.456
2822			2	-0.029	-0.011	-1.281
2823			3	-0.102	-0.011	-0.969
2824			4	-0.297	-0.011	0.086
2825			5	-0.567	-0.011	2.698
2826	44	B7	1	0.684	-0.094	4.88
2827			2	0.409	-0.094	2.022
2828			3	0.072	-0.094	0.955
2829			4	-0.275	-0.094	1.525
2830			5	-0.449	-0.094	3.434
2831	44	B8	1	0.232	1.965	3.564
2832			2	0.131	1.965	2.67
2833			3	0.113	1.965	2.154
2834			4	0.275	1.965	1.338
2835			5	0.548	1.965	-0.685
2836	44	B9	1	-0.711	3.894	-2.059
2837			2	-0.25	3.894	0.444
2838			3	0.522	3.894	-0.242
2839			4	1.515	3.894	-5.104
2840			5	2.431	3.894	-15.05
2841	44	B10	1	-2.559	-4.615	-15.465
2842			2	-1.51	-4.615	-3.365
2843			3	-0.616	-4.615	2.599
2844			4	-0.124	-4.615	4.683
2845			5	0.087	-4.615	4.715
2846	44	B11	1	0.359	-1.331	4.15
2847			2	0.47	-1.331	2.283
2848			3	0.623	-1.331	-0.162
2849			4	0.77	-1.331	-3.302
2850			5	0.918	-1.331	-7.202
2851	44	B12	1	-0.49	4.203	-7.057
2852			2	-0.428	4.203	-5.217
2853			3	-0.49	4.203	-3.463
2854			4	-0.74	4.203	-1.17
2855			5	-1.062	4.203	2.44
2856	44	B13	1	0.446	0.867	-6.109
2857			2	0.275	0.867	-6.831
2858			3	-0.126	0.867	-6.924
2859			4	-2.505	0.867	-3.353
2860			5	-2.82	0.867	1.849

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
2861	45	B1	1	-3.07	0	-0.135
2862			2	-1.375	0	13.479
2863			3	-1.329	0	21.267
2864			4	-2.289	0	32.403
2865			5	-3.291	0	50.497
2866	45	B2	1	6.312	0	50.258
2867			2	6.315	0	37.143
2868			3	6.586	0	23.889
2869			4	7.169	0	9.912
2870			5	7.584	0	-5.448
2871	45	B3	1	1.487	-0.383	0.919
2872			2	0.593	-0.383	-6.162
2873			3	-0.035	-0.383	-7.855
2874			4	-0.641	-0.383	-5.721
2875			5	-1.47	-0.383	1.487
2876	45	B4	1	1.291	0.694	6.378
2877			2	0.345	0.694	0.001
2878			3	-0.006	0.694	-0.686
2879			4	0.484	0.694	-1.969
2880			5	1.415	0.694	-9.541
2881	45	B5	1	-2.017	0.366	-14.045
2882			2	-0.661	0.366	-0.106
2883			3	0.037	0.366	2.628
2884			4	0.209	0.366	1.192
2885			5	0.278	0.366	-1.408
2886	45	B6	1	-0.049	0.094	-1.509
2887			2	-0.051	0.094	-1.234
2888			3	-0.141	0.094	-0.745
2889			4	-0.356	0.094	0.602
2890			5	-0.633	0.094	3.603
2891	45	B7	1	0.647	0.118	6.019
2892			2	0.39	0.118	3.316
2893			3	0.126	0.118	2.147
2894			4	-0.019	0.118	1.981
2895			5	0.028	0.118	2
2896	45	B8	1	-0.208	1.144	3.364
2897			2	-0.083	1.144	4.097
2898			3	0.175	1.144	3.934
2899			4	0.549	1.144	2.379
2900			5	1.002	1.144	-1.469
2901	45	B9	1	-1.124	3.438	-3.242
2902			2	-0.46	3.438	0.845
2903			3	0.578	3.438	0.516
2904			4	1.867	3.438	-5.311
2905			5	3.047	3.438	-17.702
2906	45	B10	1	-3.265	-4.861	-18.155
2907			2	-1.886	-4.861	-2.812
2908			3	-0.612	-4.861	4.203
2909			4	0.287	-4.861	5.14
2910			5	0.888	-4.861	1.554
2911	45	B11	1	-0.386	-0.898	0.902
2912			2	0.054	-0.898	1.766

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
2913			3	0.605	-0.898	0.406
2914			4	1.062	-0.898	-3.283
2915			5	1.518	-0.898	-9.302
2916	45	B12	1	-1.109	5.877	-8.955
2917			2	-0.833	5.877	-5.053
2918			3	-0.605	5.877	-2.325
2919			4	-0.604	5.877	-0.019
2920			5	-0.766	5.877	2.719
2921	45	B13	1	-0.038	0.908	-8.228
2922			2	-0.157	0.908	-8.055
2923			3	-0.479	0.908	-7.404
2924			4	-2.719	0.908	-3.334
2925			5	-3.017	0.908	2.264
2926	46	B1	1	-13.151	0	-3.121
2927			2	-5.514	0	55.081
2928			3	-3.095	0	80.282
2929			4	-3.382	0	99.978
2930			5	-3.097	0	121.299
2931	46	B2	1	13.472	0	124.141
2932			2	14.755	0	95.513
2933			3	16.84	0	63.813
2934			4	19.837	0	27.307
2935			5	21.698	0	-15.942
2936	46	B3	1	-2.283	0.692	-1.69
2937			2	-0.762	0.692	8.613
2938			3	0.16	0.692	10.186
2939			4	0.735	0.692	7.141
2940			5	1.367	0.692	-0.073
2941	46	B4	1	-1.075	0.535	12.682
2942			2	-0.396	0.535	18.569
2943			3	1.094	0.535	17.032
2944			4	4.77	0.535	-3.162
2945			5	10.365	0.535	-64.182
2946	46	B5	1	-11.437	1.502	-74.317
2947			2	-3.894	1.502	5.103
2948			3	-0.218	1.502	23.105
2949			4	2.305	1.502	12.173
2950			5	6.536	1.502	-33.193
2951	46	B6	1	-6.277	-1.927	-32.593
2952			2	-3.548	-1.927	-2.544
2953			3	-0.639	-1.927	8.601
2954			4	2.421	-1.927	3.06
2955			5	4.595	-1.927	-18.455
2956	46	B7	1	-4.817	-0.538	-12.214
2957			2	-3.155	-0.538	8.556
2958			3	-1.248	-0.538	19.024
2959			4	1.242	-0.538	19.332
2960			5	3.4	-0.538	7.386
2961	46	B8	1	-3.934	3.764	9.652
2962			2	-1.637	3.764	23.58
2963			3	1.803	3.764	23.331
2964			4	5.229	3.764	7.71

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
2965			5	8.584	3.764	-26.778
2966	46	B9	1	-8.16	9.17	-30.45
2967			2	-4.069	9.17	0.708
2968			3	1.471	9.17	6.677
2969			4	7.6	9.17	-14.882
2970			5	12.892	9.17	-66.646
2971	46	B10	1	-13.671	-13.202	-68.293
2972			2	-7.611	-13.202	-4.879
2973			3	-1.859	-13.202	21.604
2974			4	2.613	-13.202	19.526
2975			5	5.98	-13.202	-6.406
2976	46	B11	1	-4.253	-4.822	-7.734
2977			2	-1.676	-4.822	6.443
2978			3	1.499	-4.822	7.661
2979			4	4.109	-4.822	-4.457
2980			5	6.812	-4.822	-30.077
2981	46	B12	1	-6.353	12.355	-29.536
2982			2	-4.419	12.355	-7.836
2983			3	-2.118	12.355	4.083
2984			4	0.29	12.355	7.579
2985			5	1.536	12.355	3.867
2986	46	B13	1	-3.067	1.029	-17.468
2987			2	-2.708	1.029	-11.824
2988			3	-2.221	1.029	-7.166
2989			4	-3.054	1.029	-1.466
2990			5	-3.068	1.029	4.466
2991	47	B1	1	-3.078	0	0.096
2992			2	-1.367	0	13.705
2993			3	-1.319	0	21.429
2994			4	-2.288	0	32.53
2995			5	-3.304	0	50.666
2996	47	B2	1	6.376	0	50.711
2997			2	6.374	0	37.466
2998			3	6.642	0	24.091
2999			4	7.222	0	10
3000			5	7.636	0	-5.471
3001	47	B3	1	1.481	-0.354	0.923
3002			2	0.587	-0.354	-6.116
3003			3	-0.038	-0.354	-7.775
3004			4	-0.632	-0.354	-5.655
3005			5	-1.441	-0.354	1.424
3006	47	B4	1	1.293	0.65	6.666
3007			2	0.362	0.65	0.196
3008			3	0.018	0.65	-0.634
3009			4	0.488	0.65	-2.002
3010			5	1.401	0.65	-9.535
3011	47	B5	1	-1.971	0.312	-13.687
3012			2	-0.645	0.312	-0.075
3013			3	0.036	0.312	2.586
3014			4	0.205	0.312	1.183
3015			5	0.276	0.312	-1.379
3016	47	B6	1	-0.036	-0.011	-1.456

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
3017			2	-0.029	-0.011	-1.281
3018			3	-0.102	-0.011	-0.969
3019			4	-0.297	-0.011	0.086
3020			5	-0.567	-0.011	2.698
3021	47	B7	1	0.684	-0.094	4.88
3022			2	0.409	-0.094	2.022
3023			3	0.072	-0.094	0.955
3024			4	-0.275	-0.094	1.525
3025			5	-0.449	-0.094	3.434
3026	47	B8	1	0.232	1.965	3.564
3027			2	0.131	1.965	2.67
3028			3	0.113	1.965	2.154
3029			4	0.275	1.965	1.338
3030			5	0.548	1.965	-0.685
3031	47	B9	1	-0.711	3.894	-2.059
3032			2	-0.25	3.894	0.444
3033			3	0.522	3.894	-0.242
3034			4	1.515	3.894	-5.104
3035			5	2.431	3.894	-15.05
3036	47	B10	1	-2.559	-4.615	-15.465
3037			2	-1.51	-4.615	-3.365
3038			3	-0.616	-4.615	2.599
3039			4	-0.124	-4.615	4.683
3040			5	0.087	-4.615	4.715
3041	47	B11	1	0.359	-1.331	4.15
3042			2	0.47	-1.331	2.283
3043			3	0.623	-1.331	-0.162
3044			4	0.77	-1.331	-3.302
3045			5	0.918	-1.331	-7.202
3046	47	B12	1	-0.49	4.203	-7.057
3047			2	-0.428	4.203	-5.217
3048			3	-0.49	4.203	-3.463
3049			4	-0.74	4.203	-1.17
3050			5	-1.062	4.203	2.44
3051	47	B13	1	0.446	0.867	-6.109
3052			2	0.275	0.867	-6.831
3053			3	-0.126	0.867	-6.924
3054			4	-2.505	0.867	-3.353
3055			5	-2.82	0.867	1.849
3056	48	B1	1	-3.078	0	0.096
3057			2	-1.367	0	13.705
3058			3	-1.319	0	21.429
3059			4	-2.288	0	32.53
3060			5	-3.304	0	50.666
3061	48	B2	1	6.376	0	50.711
3062			2	6.374	0	37.466
3063			3	6.642	0	24.091
3064			4	7.222	0	10
3065			5	7.636	0	-5.471
3066	48	B3	1	1.481	-0.354	0.923
3067			2	0.587	-0.354	-6.116
3068			3	-0.038	-0.354	-7.775

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
3069			4	-0.632	-0.354	-5.655
3070			5	-1.441	-0.354	1.424
3071	48	B4	1	1.293	0.65	6.666
3072			2	0.362	0.65	0.196
3073			3	0.018	0.65	-0.634
3074			4	0.488	0.65	-2.002
3075			5	1.401	0.65	-9.535
3076	48	B5	1	-1.971	0.312	-13.687
3077			2	-0.645	0.312	-0.075
3078			3	0.036	0.312	2.586
3079			4	0.205	0.312	1.183
3080			5	0.276	0.312	-1.379
3081	48	B6	1	-0.036	-0.011	-1.456
3082			2	-0.029	-0.011	-1.281
3083			3	-0.102	-0.011	-0.969
3084			4	-0.297	-0.011	0.086
3085			5	-0.567	-0.011	2.698
3086	48	B7	1	0.684	-0.094	4.88
3087			2	0.409	-0.094	2.022
3088			3	0.072	-0.094	0.955
3089			4	-0.275	-0.094	1.525
3090			5	-0.449	-0.094	3.434
3091	48	B8	1	0.232	1.965	3.564
3092			2	0.131	1.965	2.67
3093			3	0.113	1.965	2.154
3094			4	0.275	1.965	1.338
3095			5	0.548	1.965	-0.685
3096	48	B9	1	-0.711	3.894	-2.059
3097			2	-0.25	3.894	0.444
3098			3	0.522	3.894	-0.242
3099			4	1.515	3.894	-5.104
3100			5	2.431	3.894	-15.05
3101	48	B10	1	-2.559	-4.615	-15.465
3102			2	-1.51	-4.615	-3.365
3103			3	-0.616	-4.615	2.599
3104			4	-0.124	-4.615	4.683
3105			5	0.087	-4.615	4.715
3106	48	B11	1	0.359	-1.331	4.15
3107			2	0.47	-1.331	2.283
3108			3	0.623	-1.331	-0.162
3109			4	0.77	-1.331	-3.302
3110			5	0.918	-1.331	-7.202
3111	48	B12	1	-0.49	4.203	-7.057
3112			2	-0.428	4.203	-5.217
3113			3	-0.49	4.203	-3.463
3114			4	-0.74	4.203	-1.17
3115			5	-1.062	4.203	2.44
3116	48	B13	1	0.446	0.867	-6.109
3117			2	0.275	0.867	-6.831
3118			3	-0.126	0.867	-6.924
3119			4	-2.505	0.867	-3.353
3120			5	-2.82	0.867	1.849

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
3121	49	B1	1	-10.627	0	-2.49
3122			2	-4.484	0	44.567
3123			3	-2.659	0	65.447
3124			4	-3.109	0	83.02
3125			5	-3.139	0	103.514
3126	49	B2	1	11.65	0	105.443
3127			2	12.615	0	80.759
3128			3	14.249	0	53.731
3129			4	16.643	0	22.915
3130			5	18.143	0	-13.307
3131	49	B3	1	-1.337	0.408	-1.039
3132			2	-0.42	0.408	4.896
3133			3	0.113	0.408	5.636
3134			4	0.386	0.408	3.892
3135			5	0.643	0.408	0.349
3136	49	B4	1	-0.484	0.597	10.962
3137			2	-0.219	0.597	13.83
3138			3	0.814	0.597	12.577
3139			4	3.697	0.597	-2.848
3140			5	8.134	0.597	-50.525
3141	49	B5	1	-9.105	1.246	-59.428
3142			2	-3.094	1.246	3.785
3143			3	-0.163	1.246	18.006
3144			4	1.784	1.246	9.432
3145			5	4.972	1.246	-25.261
3146	49	B6	1	-4.727	-1.369	-24.849
3147			2	-2.683	-1.369	-2.193
3148			3	-0.527	-1.369	6.377
3149			4	1.698	-1.369	2.703
3150			5	3.255	-1.369	-12.488
3151	49	B7	1	-3.469	-0.267	-7.086
3152			2	-2.279	-0.267	7.893
3153			3	-0.877	-0.267	15.401
3154			4	1.055	-0.267	15.222
3155			5	2.795	-0.267	5.323
3156	49	B8	1	-3.222	2.699	7.98
3157			2	-1.355	2.699	19.423
3158			3	1.428	2.699	19.372
3159			4	4.196	2.699	6.897
3160			5	6.916	2.699	-20.843
3161	49	B9	1	-6.608	7.509	-24.24
3162			2	-3.272	7.509	0.943
3163			3	1.276	7.509	5.515
3164			4	6.343	7.509	-12.593
3165			5	10.739	7.509	-55.736
3166	49	B10	1	-11.423	-11.24	-57.104
3167			2	-6.368	-11.24	-4.086
3168			3	-1.545	-11.24	18.055
3169			4	2.236	-11.24	16.158
3170			5	5.108	-11.24	-5.996
3171	49	B11	1	-3.659	-3.625	-7.2
3172			2	-1.451	-3.625	5.015

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
3173			3	1.267	-3.625	6.131
3174			4	3.494	-3.625	-4.154
3175			5	5.789	-3.625	-25.933
3176	49	B12	1	-5.352	11.573	-25.34
3177			2	-3.724	11.573	-7.058
3178			3	-1.814	11.573	3.05
3179			4	-0.22	11.573	6.255
3180			5	1.108	11.573	3.719
3181	49	B13	1	-2.552	1.02	-16.218
3182			2	-2.286	1.02	-11.493
3183			3	-1.962	1.02	-7.465
3184			4	-3.077	1.02	-1.923
3185			5	-3.154	1.02	4.123
3186	50	B1	1	-3.072	0	-0.077
3187			2	-1.373	0	13.536
3188			3	-1.327	0	21.307
3189			4	-2.289	0	32.435
3190			5	-3.294	0	50.539
3191	50	B2	1	6.328	0	50.371
3192			2	6.33	0	37.224
3193			3	6.6	0	23.94
3194			4	7.182	0	9.934
3195			5	7.597	0	-5.454
3196	50	B3	1	1.485	-0.376	0.92
3197			2	0.591	-0.376	-6.151
3198			3	-0.036	-0.376	-7.835
3199			4	-0.639	-0.376	-5.705
3200			5	-1.463	-0.376	1.471
3201	50	B4	1	1.291	0.683	6.45
3202			2	0.349	0.683	0.049
3203			3	0.007	0.683	-0.673
3204			4	0.485	0.683	-1.977
3205			5	1.411	0.683	-9.539
3206	50	B5	1	-2.006	0.353	-13.956
3207			2	-0.657	0.353	-0.099
3208			3	0.037	0.353	2.617
3209			4	0.208	0.353	1.19
3210			5	0.277	0.353	-1.4
3211	50	B6	1	-0.046	0.068	-1.496
3212			2	-0.046	0.068	-1.246
3213			3	-0.131	0.068	-0.801
3214			4	-0.341	0.068	0.473
3215			5	-0.616	0.068	3.377
3216	50	B7	1	0.656	0.065	5.734
3217			2	0.394	0.065	2.992
3218			3	0.113	0.065	1.849
3219			4	-0.083	0.065	1.867
3220			5	-0.091	0.065	2.359
3221	50	B8	1	-0.098	1.35	3.414
3222			2	-0.029	1.35	3.74
3223			3	0.16	1.35	3.489
3224			4	0.481	1.35	2.118

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
3225			5	0.889	1.35	-1.273
3226	50	B9	1	-1.021	3.552	-2.946
3227			2	-0.407	3.552	0.745
3228			3	0.564	3.552	0.327
3229			4	1.779	3.552	-5.259
3230			5	2.893	3.552	-17.039
3231	50	B10	1	-3.089	-4.8	-17.483
3232			2	-1.792	-4.8	-2.95
3233			3	-0.613	-4.8	3.802
3234			4	0.184	-4.8	5.026
3235			5	0.688	-4.8	2.344
3236	50	B11	1	-0.2	-1.006	1.714
3237			2	0.158	-1.006	1.896
3238			3	0.61	-1.006	0.264
3239			4	0.989	-1.006	-3.288
3240			5	1.368	-1.006	-8.777
3241	50	B12	1	-0.955	5.459	-8.48
3242			2	-0.732	5.459	-5.094
3243			3	-0.568	5.459	-2.609
3244			4	-0.638	5.459	-0.307
3245			5	-0.84	5.459	2.649
3246	50	B13	1	0.083	0.898	-7.698
3247			2	-0.049	0.898	-7.749
3248			3	-0.391	0.898	-7.284
3249			4	-2.665	0.898	-3.339
3250			5	-2.968	0.898	2.16
3251	51	B1	1	-3.072	0	-0.077
3252			2	-1.373	0	13.536
3253			3	-1.327	0	21.307
3254			4	-2.289	0	32.435
3255			5	-3.294	0	50.539
3256	51	B2	1	6.328	0	50.371
3257			2	6.33	0	37.224
3258			3	6.6	0	23.94
3259			4	7.182	0	9.934
3260			5	7.597	0	-5.454
3261	51	B3	1	1.485	-0.376	0.92
3262			2	0.591	-0.376	-6.151
3263			3	-0.036	-0.376	-7.835
3264			4	-0.639	-0.376	-5.705
3265			5	-1.463	-0.376	1.471
3266	51	B4	1	1.291	0.683	6.45
3267			2	0.349	0.683	0.049
3268			3	0.007	0.683	-0.673
3269			4	0.485	0.683	-1.977
3270			5	1.411	0.683	-9.539
3271	51	B5	1	-2.006	0.353	-13.956
3272			2	-0.657	0.353	-0.099
3273			3	0.037	0.353	2.617
3274			4	0.208	0.353	1.19
3275			5	0.277	0.353	-1.4
3276	51	B6	1	-0.046	0.068	-1.496

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
3277			2	-0.046	0.068	-1.246
3278			3	-0.131	0.068	-0.801
3279			4	-0.341	0.068	0.473
3280			5	-0.616	0.068	3.377
3281	51	B7	1	0.656	0.065	5.734
3282			2	0.394	0.065	2.992
3283			3	0.113	0.065	1.849
3284			4	-0.083	0.065	1.867
3285			5	-0.091	0.065	2.359
3286	51	B8	1	-0.098	1.35	3.414
3287			2	-0.029	1.35	3.74
3288			3	0.16	1.35	3.489
3289			4	0.481	1.35	2.118
3290			5	0.889	1.35	-1.273
3291	51	B9	1	-1.021	3.552	-2.946
3292			2	-0.407	3.552	0.745
3293			3	0.564	3.552	0.327
3294			4	1.779	3.552	-5.259
3295			5	2.893	3.552	-17.039
3296	51	B10	1	-3.089	-4.8	-17.483
3297			2	-1.792	-4.8	-2.95
3298			3	-0.613	-4.8	3.802
3299			4	0.184	-4.8	5.026
3300			5	0.688	-4.8	2.344
3301	51	B11	1	-0.2	-1.006	1.714
3302			2	0.158	-1.006	1.896
3303			3	0.61	-1.006	0.264
3304			4	0.989	-1.006	-3.288
3305			5	1.368	-1.006	-8.777
3306	51	B12	1	-0.955	5.459	-8.48
3307			2	-0.732	5.459	-5.094
3308			3	-0.568	5.459	-2.609
3309			4	-0.638	5.459	-0.307
3310			5	-0.84	5.459	2.649
3311	51	B13	1	0.083	0.898	-7.698
3312			2	-0.049	0.898	-7.749
3313			3	-0.391	0.898	-7.284
3314			4	-2.665	0.898	-3.339
3315			5	-2.968	0.898	2.16
3316	52	B1	1	-3.748	0	21.346
3317			2	-0.385	0	33.691
3318			3	-0.19	0	34.275
3319			4	-1.918	0	40.451
3320			5	-4.223	0	60.599
3321	52	B2	1	11.62	0	86.176
3322			2	11.331	0	62.278
3323			3	10.958	0	39.304
3324			4	11.055	0	16.584
3325			5	11.287	0	-6.68
3326	52	B3	1	1.019	1.891	1.166
3327			2	0.087	1.891	-2.476
3328			3	-0.299	1.891	-1.292

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
3329			4	-0.046	1.891	0.287
3330			5	0.658	1.891	-1.694
3331	52	B4	1	1.427	-0.862	28.59
3332			2	1.679	-0.862	15.133
3333			3	1.207	-0.862	3.384
3334			4	0.776	-0.862	-4.413
3335			5	0.38	-0.862	-9.079
3336	52	B5	1	1.506	-0.609	13.651
3337			2	0.642	-0.609	2.147
3338			3	0.061	-0.609	-1.047
3339			4	-0.161	-0.609	-0.153
3340			5	-0.1	-0.609	1.413
3341	52	B6	1	-0.014	-0.578	1.794
3342			2	0.225	-0.578	1.364
3343			3	0.686	-0.578	-1.075
3344			4	1.369	-0.578	-6.937
3345			5	1.991	-0.578	-17.264
3346	52	B7	1	-0.007	-1.092	-1.869
3347			2	0.383	-1.092	-2.77
3348			3	0.464	-1.092	-5.058
3349			4	0.198	-1.092	-6.843
3350			5	-0.61	-1.092	-5.605
3351	52	B8	1	1.645	2.886	6.686
3352			2	0.87	2.886	0.454
3353			3	0.27	2.886	-1.942
3354			4	0.065	2.886	-2.525
3355			5	0.203	2.886	-3.135
3356	52	B9	1	-0.606	4.923	-2.459
3357			2	-0.218	4.923	-0.292
3358			3	0.52	4.923	-1.026
3359			4	1.529	4.923	-5.901
3360			5	2.479	4.923	-16.001
3361	52	B10	1	-2.691	-3.965	-16.373
3362			2	-1.59	-3.965	-3.639
3363			3	-0.642	-3.965	2.627
3364			4	-0.106	-3.965	4.736
3365			5	0.133	-3.965	4.574
3366	52	B11	1	0.295	-0.328	4.005
3367			2	0.424	-0.328	2.392
3368			3	0.591	-0.328	0.127
3369			4	0.747	-0.328	-2.886
3370			5	0.907	-0.328	-6.711
3371	52	B12	1	-0.407	4.818	-6.35
3372			2	-0.346	4.818	-4.849
3373			3	-0.445	4.818	-3.37
3374			4	-0.756	4.818	-1.176
3375			5	-1.141	4.818	2.621
3376	52	B13	1	1.043	0.926	-6.278
3377			2	0.855	0.926	-8.143
3378			3	0.445	0.926	-9.346
3379			4	-3.147	0.926	-4.965
3380			5	-3.44	0.926	1.457

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
3381	53	B1	1	-3.099	0	0.743
3382			2	-1.337	0	14.315
3383			3	-1.285	0	21.823
3384			4	-2.277	0	32.777
3385			5	-3.332	0	50.976
3386	53	B2	1	6.536	0	51.799
3387			2	6.519	0	38.228
3388			3	6.773	0	24.559
3389			4	7.34	0	10.202
3390			5	7.749	0	-5.509
3391	53	B3	1	1.461	-0.259	0.932
3392			2	0.565	-0.259	-5.959
3393			3	-0.05	-0.259	-7.493
3394			4	-0.609	-0.259	-5.387
3395			5	-1.354	-0.259	1.321
3396	53	B4	1	1.298	0.617	7.597
3397			2	0.418	0.617	0.832
3398			3	0.066	0.617	-0.462
3399			4	0.498	0.617	-2.105
3400			5	1.358	0.617	-9.519
3401	53	B5	1	-1.823	0.329	-12.529
3402			2	-0.59	0.329	0.012
3403			3	0.034	0.329	2.433
3404			4	0.183	0.329	1.166
3405			5	0.252	0.329	-1.141
3406	53	B6	1	-0.037	0.114	-1.212
3407			2	-0.019	0.114	-1.051
3408			3	-0.064	0.114	-0.863
3409			4	-0.208	0.114	-0.16
3410			5	-0.42	0.114	1.735
3411	53	B7	1	0.6	0.159	4.945
3412			2	0.375	0.159	2.396
3413			3	0.105	0.159	1.299
3414			4	-0.143	0.159	1.451
3415			5	-0.237	0.159	2.468
3416	53	B8	1	0.21	1.935	4.471
3417			2	0.16	1.935	3.542
3418			3	0.143	1.935	2.838
3419			4	0.254	1.935	1.957
3420			5	0.463	1.935	0.194
3421	53	B9	1	-0.427	3.873	0.179
3422			2	-0.044	3.873	1.45
3423			3	0.643	3.873	-0.032
3424			4	1.583	3.873	-5.36
3425			5	2.477	3.873	-15.581
3426	53	B10	1	-2.579	-4.618	-15.942
3427			2	-1.537	-4.618	-3.697
3428			3	-0.64	-4.618	2.419
3429			4	-0.141	-4.618	4.626
3430			5	0.072	-4.618	4.752
3431	53	B11	1	0.359	-1.332	4.183
3432			2	0.471	-1.332	2.313

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
3433			3	0.625	-1.332	-0.141
3434			4	0.772	-1.332	-3.29
3435			5	0.92	-1.332	-7.2
3436	53	B12	1	-0.489	4.203	-7.053
3437			2	-0.427	4.203	-5.217
3438			3	-0.489	4.203	-3.466
3439			4	-0.741	4.203	-1.174
3440			5	-1.064	4.203	2.44
3441	53	B13	1	0.45	0.868	-6.104
3442			2	0.28	0.868	-6.835
3443			3	-0.122	0.868	-6.937
3444			4	-2.508	0.868	-3.363
3445			5	-2.823	0.868	1.845
3446	54	B1	1	-2.408	0	-21.153
3447			2	-2.348	0	-6.28
3448			3	-2.449	0	8.583
3449			4	-2.658	0	24.61
3450			5	-2.384	0	40.733
3451	54	B2	1	1.131	0	15.247
3452			2	1.642	0	12.655
3453			3	2.389	0	8.878
3454			4	3.389	0	3.416
3455			5	3.986	0	-4.263
3456	54	B3	1	1.943	-2.6	0.679
3457			2	1.086	-2.6	-9.755
3458			3	0.223	-2.6	-14.259
3459			4	-1.219	-2.6	-11.598
3460			5	-3.54	-2.6	4.542
3461	54	B4	1	1.159	2.161	-15.257
3462			2	-1.086	2.161	-14.742
3463			3	-1.188	2.161	-4.652
3464			4	0.243	2.161	0.41
3465			5	2.422	2.161	-9.992
3466	54	B5	1	-5.449	1.233	-41.026
3467			2	-1.932	1.233	-2.298
3468			3	-0.054	1.233	6.22
3469			4	0.571	1.233	2.518
3470			5	0.651	1.233	-4.171
3471	54	B6	1	-0.058	0.556	-4.705
3472			2	-0.283	0.556	-3.925
3473			3	-0.889	0.556	-0.863
3474			4	-1.963	0.556	7.109
3475			5	-3.125	0.556	22.66
3476	54	B7	1	1.375	0.903	11.629
3477			2	0.488	0.903	6.815
3478			3	-0.429	0.903	6.967
3479			4	-0.644	0.903	9.892
3480			5	-0.288	0.903	12.473
3481	54	B8	1	-1.182	1.044	0.442
3482			2	-0.608	1.044	4.886
3483			3	-0.067	1.044	6.251
3484			4	0.485	1.044	5.201

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
3485			5	0.893	1.044	1.765
3486	54	B9	1	-0.816	2.865	-1.658
3487			2	-0.281	2.865	1.181
3488			3	0.523	2.865	0.542
3489			4	1.501	2.865	-4.307
3490			5	2.384	2.865	-14.1
3491	54	B10	1	-2.427	-5.264	-14.556
3492			2	-1.43	-5.264	-3.091
3493			3	-0.59	-5.264	2.57
3494			4	-0.141	-5.264	4.629
3495			5	0.04	-5.264	4.857
3496	54	B11	1	0.422	-2.334	4.295
3497			2	0.517	-2.334	2.175
3498			3	0.655	-2.334	-0.451
3499			4	0.793	-2.334	-3.719
3500			5	0.928	-2.334	-7.693
3501	54	B12	1	-0.573	3.588	-7.763
3502			2	-0.511	3.588	-5.584
3503			3	-0.535	3.588	-3.556
3504			4	-0.725	3.588	-1.165
3505			5	-0.984	3.588	2.26
3506	54	B13	1	-0.152	0.807	-5.94
3507			2	-0.305	0.807	-5.518
3508			3	-0.698	0.807	-4.503
3509			4	-1.863	0.807	-1.742
3510			5	-2.2	0.807	2.24
3511	55	B1	1	-3.058	0	-0.55
3512			2	-1.396	0	13.096
3513			3	-1.353	0	21.035
3514			4	-2.299	0	32.284
3515			5	-3.276	0	50.356
3516	55	B2	1	6.215	0	49.624
3517			2	6.229	0	36.705
3518			3	6.512	0	23.624
3519			4	7.104	0	9.797
3520			5	7.524	0	-5.433
3521	55	B3	1	1.501	-0.45	0.913
3522			2	0.608	-0.45	-6.272
3523			3	-0.026	-0.45	-8.057
3524			4	-0.655	-0.45	-5.924
3525			5	-1.528	-0.45	1.527
3526	55	B4	1	1.288	0.682	5.735
3527			2	0.307	0.682	-0.441
3528			3	-0.042	0.682	-0.806
3529			4	0.477	0.682	-1.898
3530			5	1.444	0.682	-9.551
3531	55	B5	1	-2.12	0.295	-14.845
3532			2	-0.699	0.295	-0.163
3533			3	0.039	0.295	2.74
3534			4	0.226	0.295	1.199
3535			5	0.3	0.295	-1.617
3536	55	B6	1	-0.034	-0.135	-1.7

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
3537			2	-0.039	-0.135	-1.51
3538			3	-0.14	-0.135	-1.075
3539			4	-0.386	-0.135	0.332
3540			5	-0.713	-0.135	3.662
3541	55	B7	1	0.768	-0.348	4.815
3542			2	0.442	-0.348	1.649
3543			3	0.039	-0.348	0.61
3544			4	-0.406	-0.348	1.598
3545			5	-0.661	-0.348	4.401
3546	55	B8	1	0.253	1.995	2.657
3547			2	0.102	1.995	1.798
3548			3	0.082	1.995	1.47
3549			4	0.295	1.995	0.719
3550			5	0.633	1.995	-1.564
3551	55	B9	1	-0.996	3.915	-4.297
3552			2	-0.455	3.915	-0.561
3553			3	0.4	3.915	-0.452
3554			4	1.447	3.915	-4.847
3555			5	2.386	3.915	-14.519
3556	55	B10	1	-2.538	-4.612	-14.988
3557			2	-1.483	-4.612	-3.033
3558			3	-0.593	-4.612	2.778
3559			4	-0.106	-4.612	4.739
3560			5	0.101	-4.612	4.679
3561	55	B11	1	0.358	-1.33	4.117
3562			2	0.469	-1.33	2.254
3563			3	0.621	-1.33	-0.183
3564			4	0.768	-1.33	-3.314
3565			5	0.915	-1.33	-7.203
3566	55	B12	1	-0.491	4.203	-7.06
3567			2	-0.429	4.203	-5.216
3568			3	-0.49	4.203	-3.46
3569			4	-0.74	4.203	-1.167
3570			5	-1.061	4.203	2.44
3571	55	B13	1	0.441	0.865	-6.113
3572			2	0.271	0.865	-6.826
3573			3	-0.131	0.865	-6.911
3574			4	-2.502	0.865	-3.344
3575			5	-2.817	0.865	1.852
3576	56	B1	1	-3.078	0	0.096
3577			2	-1.367	0	13.705
3578			3	-1.319	0	21.429
3579			4	-2.288	0	32.53
3580			5	-3.304	0	50.666
3581	56	B2	1	6.376	0	50.711
3582			2	6.374	0	37.466
3583			3	6.642	0	24.091
3584			4	7.222	0	10
3585			5	7.636	0	-5.471
3586	56	B3	1	1.481	-0.354	0.923
3587			2	0.587	-0.354	-6.116
3588			3	-0.038	-0.354	-7.775

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
3589			4	-0.632	-0.354	-5.655
3590			5	-1.441	-0.354	1.424
3591	56	B4	1	1.293	0.65	6.666
3592			2	0.362	0.65	0.196
3593			3	0.018	0.65	-0.634
3594			4	0.488	0.65	-2.002
3595			5	1.401	0.65	-9.535
3596	56	B5	1	-1.971	0.312	-13.687
3597			2	-0.645	0.312	-0.075
3598			3	0.036	0.312	2.586
3599			4	0.205	0.312	1.183
3600			5	0.276	0.312	-1.379
3601	56	B6	1	-0.036	-0.011	-1.456
3602			2	-0.029	-0.011	-1.281
3603			3	-0.102	-0.011	-0.969
3604			4	-0.297	-0.011	0.086
3605			5	-0.567	-0.011	2.698
3606	56	B7	1	0.684	-0.094	4.88
3607			2	0.409	-0.094	2.022
3608			3	0.072	-0.094	0.955
3609			4	-0.275	-0.094	1.525
3610			5	-0.449	-0.094	3.434
3611	56	B8	1	0.232	1.965	3.564
3612			2	0.131	1.965	2.67
3613			3	0.113	1.965	2.154
3614			4	0.275	1.965	1.338
3615			5	0.548	1.965	-0.685
3616	56	B9	1	-0.711	3.894	-2.059
3617			2	-0.25	3.894	0.444
3618			3	0.522	3.894	-0.242
3619			4	1.515	3.894	-5.104
3620			5	2.431	3.894	-15.05
3621	56	B10	1	-2.559	-4.615	-15.465
3622			2	-1.51	-4.615	-3.365
3623			3	-0.616	-4.615	2.599
3624			4	-0.124	-4.615	4.683
3625			5	0.087	-4.615	4.715
3626	56	B11	1	0.359	-1.331	4.15
3627			2	0.47	-1.331	2.283
3628			3	0.623	-1.331	-0.162
3629			4	0.77	-1.331	-3.302
3630			5	0.918	-1.331	-7.202
3631	56	B12	1	-0.49	4.203	-7.057
3632			2	-0.428	4.203	-5.217
3633			3	-0.49	4.203	-3.463
3634			4	-0.74	4.203	-1.17
3635			5	-1.062	4.203	2.44
3636	56	B13	1	0.446	0.867	-6.109
3637			2	0.275	0.867	-6.831
3638			3	-0.126	0.867	-6.924
3639			4	-2.505	0.867	-3.353
3640			5	-2.82	0.867	1.849

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
3641	57	B1	1	-3.078	0	0.096
3642			2	-1.367	0	13.705
3643			3	-1.319	0	21.429
3644			4	-2.288	0	32.53
3645			5	-3.304	0	50.666
3646	57	B2	1	6.376	0	50.711
3647			2	6.374	0	37.466
3648			3	6.642	0	24.091
3649			4	7.222	0	10
3650			5	7.636	0	-5.471
3651	57	B3	1	1.481	-0.354	0.923
3652			2	0.587	-0.354	-6.116
3653			3	-0.038	-0.354	-7.775
3654			4	-0.632	-0.354	-5.655
3655			5	-1.441	-0.354	1.424
3656	57	B4	1	1.293	0.65	6.666
3657			2	0.362	0.65	0.196
3658			3	0.018	0.65	-0.634
3659			4	0.488	0.65	-2.002
3660			5	1.401	0.65	-9.535
3661	57	B5	1	-1.971	0.312	-13.687
3662			2	-0.645	0.312	-0.075
3663			3	0.036	0.312	2.586
3664			4	0.205	0.312	1.183
3665			5	0.276	0.312	-1.379
3666	57	B6	1	-0.036	-0.011	-1.456
3667			2	-0.029	-0.011	-1.281
3668			3	-0.102	-0.011	-0.969
3669			4	-0.297	-0.011	0.086
3670			5	-0.567	-0.011	2.698
3671	57	B7	1	0.684	-0.094	4.88
3672			2	0.409	-0.094	2.022
3673			3	0.072	-0.094	0.955
3674			4	-0.275	-0.094	1.525
3675			5	-0.449	-0.094	3.434
3676	57	B8	1	0.232	1.965	3.564
3677			2	0.131	1.965	2.67
3678			3	0.113	1.965	2.154
3679			4	0.275	1.965	1.338
3680			5	0.548	1.965	-0.685
3681	57	B9	1	-0.711	3.894	-2.059
3682			2	-0.25	3.894	0.444
3683			3	0.522	3.894	-0.242
3684			4	1.515	3.894	-5.104
3685			5	2.431	3.894	-15.05
3686	57	B10	1	-2.559	-4.615	-15.465
3687			2	-1.51	-4.615	-3.365
3688			3	-0.616	-4.615	2.599
3689			4	-0.124	-4.615	4.683
3690			5	0.087	-4.615	4.715
3691	57	B11	1	0.359	-1.331	4.15
3692			2	0.47	-1.331	2.283

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
3693			3	0.623	-1.331	-0.162
3694			4	0.77	-1.331	-3.302
3695			5	0.918	-1.331	-7.202
3696	57	B12	1	-0.49	4.203	-7.057
3697			2	-0.428	4.203	-5.217
3698			3	-0.49	4.203	-3.463
3699			4	-0.74	4.203	-1.17
3700			5	-1.062	4.203	2.44
3701	57	B13	1	0.446	0.867	-6.109
3702			2	0.275	0.867	-6.831
3703			3	-0.126	0.867	-6.924
3704			4	-2.505	0.867	-3.353
3705			5	-2.82	0.867	1.849
3706	58	B1	1	-3.078	0	0.096
3707			2	-1.367	0	13.705
3708			3	-1.319	0	21.429
3709			4	-2.288	0	32.53
3710			5	-3.304	0	50.666
3711	58	B2	1	6.376	0	50.711
3712			2	6.374	0	37.466
3713			3	6.642	0	24.091
3714			4	7.222	0	10
3715			5	7.636	0	-5.471
3716	58	B3	1	1.481	-0.354	0.923
3717			2	0.587	-0.354	-6.116
3718			3	-0.038	-0.354	-7.775
3719			4	-0.632	-0.354	-5.655
3720			5	-1.441	-0.354	1.424
3721	58	B4	1	1.293	0.65	6.666
3722			2	0.362	0.65	0.196
3723			3	0.018	0.65	-0.634
3724			4	0.488	0.65	-2.002
3725			5	1.401	0.65	-9.535
3726	58	B5	1	-1.971	0.312	-13.687
3727			2	-0.645	0.312	-0.075
3728			3	0.036	0.312	2.586
3729			4	0.205	0.312	1.183
3730			5	0.276	0.312	-1.379
3731	58	B6	1	-0.036	-0.011	-1.456
3732			2	-0.029	-0.011	-1.281
3733			3	-0.102	-0.011	-0.969
3734			4	-0.297	-0.011	0.086
3735			5	-0.567	-0.011	2.698
3736	58	B7	1	0.684	-0.094	4.88
3737			2	0.409	-0.094	2.022
3738			3	0.072	-0.094	0.955
3739			4	-0.275	-0.094	1.525
3740			5	-0.449	-0.094	3.434
3741	58	B8	1	0.232	1.965	3.564
3742			2	0.131	1.965	2.67
3743			3	0.113	1.965	2.154
3744			4	0.275	1.965	1.338

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
3745			5	0.548	1.965	-0.685
3746	58	B9	1	-0.711	3.894	-2.059
3747			2	-0.25	3.894	0.444
3748			3	0.522	3.894	-0.242
3749			4	1.515	3.894	-5.104
3750			5	2.431	3.894	-15.05
3751	58	B10	1	-2.559	-4.615	-15.465
3752			2	-1.51	-4.615	-3.365
3753			3	-0.616	-4.615	2.599
3754			4	-0.124	-4.615	4.683
3755			5	0.087	-4.615	4.715
3756	58	B11	1	0.359	-1.331	4.15
3757			2	0.47	-1.331	2.283
3758			3	0.623	-1.331	-0.162
3759			4	0.77	-1.331	-3.302
3760			5	0.918	-1.331	-7.202
3761	58	B12	1	-0.49	4.203	-7.057
3762			2	-0.428	4.203	-5.217
3763			3	-0.49	4.203	-3.463
3764			4	-0.74	4.203	-1.17
3765			5	-1.062	4.203	2.44
3766	58	B13	1	0.446	0.867	-6.109
3767			2	0.275	0.867	-6.831
3768			3	-0.126	0.867	-6.924
3769			4	-2.505	0.867	-3.353
3770			5	-2.82	0.867	1.849
3771	59	B1	1	-3.078	0	0.096
3772			2	-1.367	0	13.705
3773			3	-1.319	0	21.429
3774			4	-2.288	0	32.53
3775			5	-3.304	0	50.666
3776	59	B2	1	6.376	0	50.711
3777			2	6.374	0	37.466
3778			3	6.642	0	24.091
3779			4	7.222	0	10
3780			5	7.636	0	-5.471
3781	59	B3	1	1.481	-0.354	0.923
3782			2	0.587	-0.354	-6.116
3783			3	-0.038	-0.354	-7.775
3784			4	-0.632	-0.354	-5.655
3785			5	-1.441	-0.354	1.424
3786	59	B4	1	1.293	0.65	6.666
3787			2	0.362	0.65	0.196
3788			3	0.018	0.65	-0.634
3789			4	0.488	0.65	-2.002
3790			5	1.401	0.65	-9.535
3791	59	B5	1	-1.971	0.312	-13.687
3792			2	-0.645	0.312	-0.075
3793			3	0.036	0.312	2.586
3794			4	0.205	0.312	1.183
3795			5	0.276	0.312	-1.379
3796	59	B6	1	-0.036	-0.011	-1.456

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
3797			2	-0.029	-0.011	-1.281
3798			3	-0.102	-0.011	-0.969
3799			4	-0.297	-0.011	0.086
3800			5	-0.567	-0.011	2.698
3801	59	B7	1	0.684	-0.094	4.88
3802			2	0.409	-0.094	2.022
3803			3	0.072	-0.094	0.955
3804			4	-0.275	-0.094	1.525
3805			5	-0.449	-0.094	3.434
3806	59	B8	1	0.232	1.965	3.564
3807			2	0.131	1.965	2.67
3808			3	0.113	1.965	2.154
3809			4	0.275	1.965	1.338
3810			5	0.548	1.965	-0.685
3811	59	B9	1	-0.711	3.894	-2.059
3812			2	-0.25	3.894	0.444
3813			3	0.522	3.894	-0.242
3814			4	1.515	3.894	-5.104
3815			5	2.431	3.894	-15.05
3816	59	B10	1	-2.559	-4.615	-15.465
3817			2	-1.51	-4.615	-3.365
3818			3	-0.616	-4.615	2.599
3819			4	-0.124	-4.615	4.683
3820			5	0.087	-4.615	4.715
3821	59	B11	1	0.359	-1.331	4.15
3822			2	0.47	-1.331	2.283
3823			3	0.623	-1.331	-0.162
3824			4	0.77	-1.331	-3.302
3825			5	0.918	-1.331	-7.202
3826	59	B12	1	-0.49	4.203	-7.057
3827			2	-0.428	4.203	-5.217
3828			3	-0.49	4.203	-3.463
3829			4	-0.74	4.203	-1.17
3830			5	-1.062	4.203	2.44
3831	59	B13	1	0.446	0.867	-6.109
3832			2	0.275	0.867	-6.831
3833			3	-0.126	0.867	-6.924
3834			4	-2.505	0.867	-3.353
3835			5	-2.82	0.867	1.849
3836	60	B1	1	-11.129	0	13.447
3837			2	-3.748	0	59.557
3838			3	-1.812	0	75.081
3839			4	-2.831	0	88.961
3840			5	-3.829	0	110.964
3841	60	B2	1	15.583	0	132.042
3842			2	16.165	0	99.368
3843			3	17.438	0	65.141
3844			4	19.518	0	27.853
3845			5	20.881	0	-14.213
3846	60	B3	1	-1.684	2.092	-0.857
3847			2	-0.795	2.092	7.625
3848			3	-0.083	2.092	10.498

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
3849			4	0.826	2.092	8.349
3850			5	2.217	2.092	-1.99
3851	60	B4	1	-0.384	-0.537	27.404
3852			2	0.852	-0.537	25.033
3853			3	1.658	-0.537	15.591
3854			4	3.88	-0.537	-4.656
3855			5	7.369	-0.537	-50.182
3856	60	B5	1	-6.497	0.555	-38.924
3857			2	-2.129	0.555	5.452
3858			3	-0.12	0.555	15.281
3859			4	1.509	0.555	8.431
3860			5	4.691	0.555	-23.167
3861	60	B6	1	-4.71	-1.795	-22.412
3862			2	-2.535	-1.795	-0.21
3863			3	0.393	-1.795	6.297
3864			4	2.947	-1.795	-2.564
3865			5	5.174	-1.795	-27.459
3866	60	B7	1	-3.988	-1.016	-12.148
3867			2	-2.338	-1.016	4.298
3868			3	-0.583	-1.016	10.892
3869			4	1.325	-1.016	8.947
3870			5	2.674	-1.016	-1.456
3871	60	B8	1	-2.162	3.39	10.321
3872			2	-0.801	3.39	17.761
3873			3	1.492	3.39	16.299
3874			4	4.039	3.39	4
3875			5	6.657	3.39	-22.68
3876	60	B9	1	-6.529	8.281	-24.54
3877			2	-3.248	8.281	0.391
3878			3	1.275	8.281	4.928
3879			4	6.354	8.281	-13.19
3880			5	10.775	8.281	-56.449
3881	60	B10	1	-11.522	-10.753	-57.785
3882			2	-6.428	-10.753	-4.292
3883			3	-1.565	-10.753	18.077
3884			4	2.249	-10.753	16.199
3885			5	5.142	-10.753	-6.102
3886	60	B11	1	-3.706	-2.873	-7.308
3887			2	-1.486	-2.873	5.096
3888			3	1.243	-2.873	6.348
3889			4	3.477	-2.873	-3.842
3890			5	5.781	-2.873	-25.565
3891	60	B12	1	-5.289	12.034	-24.809
3892			2	-3.662	12.034	-6.782
3893			3	-1.772	12.034	3.12
3894			4	-0.218	12.034	6.25
3895			5	1.049	12.034	3.855
3896	60	B13	1	-2.104	1.065	-16.344
3897			2	-1.851	1.065	-12.477
3898			3	-1.534	1.065	-9.282
3899			4	-3.558	1.065	-3.132
3900			5	-3.619	1.065	3.83

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
3901	61	B1	1	-10.642	0	-2.005
3902			2	-4.461	0	45.024
3903			3	-2.633	0	65.742
3904			4	-3.101	0	83.205
3905			5	-3.16	0	103.746
3906	61	B2	1	11.77	0	106.259
3907			2	12.724	0	81.33
3908			3	14.347	0	54.082
3909			4	16.732	0	23.066
3910			5	18.228	0	-13.335
3911	61	B3	1	-1.352	0.48	-1.032
3912			2	-0.436	0.48	5.013
3913			3	0.104	0.48	5.847
3914			4	0.404	0.48	4.094
3915			5	0.709	0.48	0.272
3916	61	B4	1	-0.48	0.572	11.66
3917			2	-0.177	0.572	14.307
3918			3	0.85	0.572	12.706
3919			4	3.705	0.572	-2.925
3920			5	8.102	0.572	-50.513
3921	61	B5	1	-8.994	1.258	-58.56
3922			2	-3.053	1.258	3.851
3923			3	-0.163	1.258	17.891
3924			4	1.767	1.258	9.42
3925			5	4.954	1.258	-25.083
3926	61	B6	1	-4.728	-1.276	-24.666
3927			2	-2.677	-1.276	-2.021
3928			3	-0.503	-1.276	6.456
3929			4	1.764	-1.276	2.519
3930			5	3.365	-1.276	-13.211
3931	61	B7	1	-3.532	-0.077	-7.037
3932			2	-2.304	-0.077	8.173
3933			3	-0.853	-0.077	15.659
3934			4	1.154	-0.077	15.167
3935			5	2.954	-0.077	4.598
3936	61	B8	1	-3.238	2.676	8.66
3937			2	-1.333	2.676	20.077
3938			3	1.45	2.676	19.885
3939			4	4.181	2.676	7.362
3940			5	6.852	2.676	-20.184
3941	61	B9	1	-6.394	7.493	-22.562
3942			2	-3.118	7.493	1.697
3943			3	1.367	7.493	5.673
3944			4	6.394	7.493	-12.785
3945			5	10.773	7.493	-56.134
3946	61	B10	1	-11.438	-11.242	-57.461
3947			2	-6.388	-11.242	-4.335
3948			3	-1.563	-11.242	17.921
3949			4	2.223	-11.242	16.116
3950			5	5.097	-11.242	-5.969
3951	61	B11	1	-3.658	-3.626	-7.175
3952			2	-1.45	-3.626	5.037

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
3953			3	1.268	-3.626	6.147
3954			4	3.496	-3.626	-4.146
3955			5	5.79	-3.626	-25.932
3956	61	B12	1	-5.351	11.573	-25.337
3957			2	-3.724	11.573	-7.059
3958			3	-1.813	11.573	3.048
3959			4	-0.22	11.573	6.252
3960			5	1.107	11.573	3.719
3961	61	B13	1	-2.549	1.021	-16.214
3962			2	-2.283	1.021	-11.497
3963			3	-1.959	1.021	-7.475
3964			4	-3.079	1.021	-1.93
3965			5	-3.156	1.021	4.121
3966	62	B1	1	-10.124	0	-18.427
3967			2	-5.219	0	29.578
3968			3	-3.505	0	55.813
3969			4	-3.387	0	77.08
3970			5	-2.449	0	96.064
3971	62	B2	1	7.717	0	78.845
3972			2	9.066	0	62.15
3973			3	11.059	0	42.321
3974			4	13.768	0	17.977
3975			5	15.405	0	-12.401
3976	62	B3	1	-0.991	-1.276	-1.222
3977			2	-0.046	-1.276	2.166
3978			3	0.308	-1.276	0.773
3979			4	-0.054	-1.276	-0.564
3980			5	-0.931	-1.276	2.688
3981	62	B4	1	-0.585	1.73	-5.481
3982			2	-1.207	1.73	2.627
3983			3	-0.288	1.73	9.563
3984			4	3.513	1.73	-1.039
3985			5	8.9	1.73	-50.867
3986	62	B5	1	-11.713	1.936	-79.932
3987			2	-4.06	1.936	2.119
3988			3	-0.206	1.936	20.732
3989			4	2.058	1.936	10.434
3990			5	5.254	1.936	-27.355
3991	62	B6	1	-4.744	-0.944	-27.286
3992			2	-2.831	-0.944	-4.176
3993			3	-1.033	-0.944	6.456
3994			4	0.448	-0.944	7.971
3995			5	1.337	-0.944	2.483
3996	62	B7	1	-2.951	0.481	-2.024
3997			2	-2.219	0.481	11.487
3998			3	-1.171	0.481	19.911
3999			4	0.785	0.481	21.498
4000			5	2.916	0.481	12.102
4001	62	B8	1	-4.282	2.008	5.638
4002			2	-1.91	2.008	21.085
4003			3	1.363	2.008	22.444
4004			4	4.354	2.008	9.795

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
4005			5	7.175	2.008	-19.005
4006	62	B9	1	-6.687	6.737	-23.94
4007			2	-3.296	6.737	1.495
4008			3	1.277	6.737	6.103
4009			4	6.333	6.737	-11.995
4010			5	10.703	6.737	-55.023
4011	62	B10	1	-11.324	-11.727	-56.422
4012			2	-6.307	-11.727	-3.881
4013			3	-1.526	-11.727	18.034
4014			4	2.223	-11.727	16.118
4015			5	5.073	-11.727	-5.891
4016	62	B11	1	-3.611	-4.377	-7.091
4017			2	-1.416	-4.377	4.934
4018			3	1.291	-4.377	5.914
4019			4	3.511	-4.377	-4.467
4020			5	5.797	-4.377	-26.302
4021	62	B12	1	-5.414	11.111	-25.87
4022			2	-3.786	11.111	-7.334
4023			3	-1.856	11.111	2.981
4024			4	-0.221	11.111	6.259
4025			5	1.167	11.111	3.584
4026	62	B13	1	-3	0.976	-16.091
4027			2	-2.722	0.976	-10.509
4028			3	-2.391	0.976	-5.649
4029			4	-2.595	0.976	-0.714
4030			5	-2.689	0.976	4.417
4031	63	B1	1	-10.611	0	-2.975
4032			2	-4.506	0	44.11
4033			3	-2.684	0	65.152
4034			4	-3.117	0	82.835
4035			5	-3.118	0	103.282
4036	63	B2	1	11.53	0	104.628
4037			2	12.507	0	80.188
4038			3	14.151	0	53.38
4039			4	16.555	0	22.763
4040			5	18.059	0	-13.278
4041	63	B3	1	-1.322	0.337	-1.047
4042			2	-0.404	0.337	4.778
4043			3	0.122	0.337	5.424
4044			4	0.369	0.337	3.691
4045			5	0.578	0.337	0.426
4046	63	B4	1	-0.488	0.621	10.263
4047			2	-0.261	0.621	13.353
4048			3	0.778	0.621	12.448
4049			4	3.689	0.621	-2.77
4050			5	8.167	0.621	-50.536
4051	63	B5	1	-9.216	1.233	-60.297
4052			2	-3.135	1.233	3.72
4053			3	-0.164	1.233	18.122
4054			4	1.8	1.233	9.445
4055			5	4.991	1.233	-25.44
4056	63	B6	1	-4.726	-1.463	-25.032

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
4057			2	-2.688	-1.463	-2.365
4058			3	-0.551	-1.463	6.297
4059			4	1.631	-1.463	2.888
4060			5	3.145	-1.463	-11.765
4061	63	B7	1	-3.406	-0.458	-7.135
4062			2	-2.253	-0.458	7.613
4063			3	-0.902	-0.458	15.143
4064			4	0.956	-0.458	15.277
4065			5	2.637	-0.458	6.048
4066	63	B8	1	-3.206	2.721	7.3
4067			2	-1.378	2.721	18.769
4068			3	1.405	2.721	18.859
4069			4	4.212	2.721	6.433
4070			5	6.98	2.721	-21.502
4071	63	B9	1	-6.821	7.525	-25.919
4072			2	-3.426	7.525	0.189
4073			3	1.185	7.525	5.358
4074			4	6.292	7.525	-12.4
4075			5	10.705	7.525	-55.338
4076	63	B10	1	-11.408	-11.238	-56.746
4077			2	-6.348	-11.238	-3.837
4078			3	-1.528	-11.238	18.19
4079			4	2.25	-11.238	16.201
4080			5	5.118	-11.238	-6.024
4081	63	B11	1	-3.659	-3.624	-7.224
4082			2	-1.452	-3.624	4.993
4083			3	1.265	-3.624	6.115
4084			4	3.492	-3.624	-4.163
4085			5	5.787	-3.624	-25.934
4086	63	B12	1	-5.352	11.573	-25.342
4087			2	-3.725	11.573	-7.058
4088			3	-1.814	11.573	3.053
4089			4	-0.22	11.573	6.257
4090			5	1.109	11.573	3.719
4091	63	B13	1	-2.556	1.019	-16.221
4092			2	-2.29	1.019	-11.49
4093			3	-1.965	1.019	-7.456
4094			4	-3.074	1.019	-1.916
4095			5	-3.152	1.019	4.126
4096	64	B1	1	-3.574	0	15.86
4097			2	-0.637	0	28.525
4098			3	-0.48	0	30.942
4099			4	-2.011	0	38.375
4100			5	-3.984	0	57.989
4101	64	B2	1	10.261	0	76.97
4102			2	10.038	0	55.833
4103			3	9.793	0	35.35
4104			4	10.057	0	14.872
4105			5	10.335	0	-6.36
4106	64	B3	1	1.139	1.308	1.103
4107			2	0.217	1.308	-3.421
4108			3	-0.232	1.308	-2.973

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
4109			4	-0.199	1.308	-1.248
4110			5	0.111	1.308	-0.867
4111	64	B4	1	1.392	-0.451	22.893
4112			2	1.337	-0.451	11.252
4113			3	0.896	-0.451	2.341
4114			4	0.676	-0.451	-3.786
4115			5	0.645	-0.451	-9.197
4116	64	B5	1	0.603	-0.338	6.548
4117			2	0.308	-0.338	1.568
4118			3	0.046	-0.338	-0.108
4119			4	-0.066	-0.338	0.188
4120			5	-0.005	-0.338	0.694
4121	64	B6	1	-0.029	-0.358	0.941
4122			2	0.145	-0.358	0.738
4123			3	0.46	-0.358	-0.881
4124			4	0.908	-0.358	-4.794
4125			5	1.302	-0.358	-11.594
4126	64	B7	1	0.138	-0.683	0.672
4127			2	0.365	-0.683	-0.602
4128			3	0.407	-0.683	-2.661
4129			4	0.252	-0.683	-4.409
4130			5	-0.213	-0.683	-4.42
4131	64	B8	1	0.962	2.041	5.755
4132			2	0.525	2.041	2.078
4133			3	0.243	2.041	0.416
4134			4	0.323	2.041	-0.779
4135			5	0.63	2.041	-3.11
4136	64	B9	1	-0.942	4.324	-3.247
4137			2	-0.384	4.324	0.193
4138			3	0.563	4.324	-0.261
4139			4	1.79	4.324	-5.857
4140			5	2.929	4.324	-17.752
4141	64	B10	1	-3.187	-4.313	-18.164
4142			2	-1.852	-4.313	-3.156
4143			3	-0.633	-4.313	3.823
4144			4	0.197	-4.313	5.066
4145			5	0.722	-4.313	2.239
4146	64	B11	1	-0.247	-0.254	1.605
4147			2	0.123	-0.254	1.977
4148			3	0.586	-0.254	0.481
4149			4	0.972	-0.254	-2.976
4150			5	1.36	-0.254	-8.408
4151	64	B12	1	-0.892	5.92	-7.95
4152			2	-0.67	5.92	-4.818
4153			3	-0.526	5.92	-2.539
4154			4	-0.65	5.92	-0.311
4155			5	-0.899	5.92	2.785
4156	64	B13	1	0.531	0.943	-7.825
4157			2	0.386	0.943	-8.733
4158			3	0.037	0.943	-9.1
4159			4	-3.147	0.943	-4.547
4160			5	-3.433	0.943	1.867

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
4161	65	B1	1	-3.087	0	0.408
4162			2	-1.351	0	13.993
4163			3	-1.301	0	21.603
4164			4	-2.281	0	32.619
4165			5	-3.316	0	50.772
4166	65	B2	1	6.448	0	51.187
4167			2	6.438	0	37.795
4168			3	6.698	0	24.29
4169			4	7.271	0	10.086
4170			5	7.681	0	-5.483
4171	65	B3	1	1.47	-0.304	0.927
4172			2	0.575	-0.304	-6.033
4173			3	-0.045	-0.304	-7.624
4174			4	-0.621	-0.304	-5.503
4175			5	-1.397	-0.304	1.394
4176	65	B4	1	1.295	0.658	7.149
4177			2	0.391	0.658	0.527
4178			3	0.043	0.658	-0.544
4179			4	0.493	0.658	-2.055
4180			5	1.379	0.658	-9.527
4181	65	B5	1	-1.894	0.365	-13.087
4182			2	-0.616	0.365	-0.033
4183			3	0.035	0.365	2.502
4184			4	0.192	0.365	1.177
4185			5	0.259	0.365	-1.222
4186	65	B6	1	-0.047	0.161	-1.313
4187			2	-0.038	0.161	-1.074
4188			3	-0.103	0.161	-0.722
4189			4	-0.275	0.161	0.289
4190			5	-0.506	0.161	2.654
4191	65	B7	1	0.593	0.255	5.783
4192			2	0.369	0.255	3.272
4193			3	0.138	0.255	2.107
4194			4	0.021	0.255	1.812
4195			5	0.067	0.255	1.634
4196	65	B8	1	-0.115	1.327	4.094
4197			2	0.019	1.327	4.394
4198			3	0.182	1.327	4.002
4199			4	0.465	1.327	2.583
4200			5	0.825	1.327	-0.614
4201	65	B9	1	-0.807	3.536	-1.268
4202			2	-0.253	3.536	1.499
4203			3	0.655	3.536	0.484
4204			4	1.83	3.536	-5.452
4205			5	2.927	3.536	-17.437
4206	65	B10	1	-3.104	-4.802	-17.84
4207			2	-1.812	-4.802	-3.199
4208			3	-0.631	-4.802	3.667
4209			4	0.171	-4.802	4.983
4210			5	0.677	-4.802	2.372
4211	65	B11	1	-0.199	-1.007	1.739
4212			2	0.159	-1.007	1.918

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
4213			3	0.611	-1.007	0.28
4214			4	0.991	-1.007	-3.279
4215			5	1.37	-1.007	-8.776
4216	65	B12	1	-0.954	5.459	-8.478
4217			2	-0.731	5.459	-5.094
4218			3	-0.568	5.459	-2.611
4219			4	-0.639	5.459	-0.31
4220			5	-0.841	5.459	2.65
4221	65	B13	1	0.086	0.899	-7.695
4222			2	-0.046	0.899	-7.752
4223			3	-0.388	0.899	-7.294
4224			4	-2.667	0.899	-3.346
4225			5	-2.97	0.899	2.158
4226	66	B1	1	-2.569	0	-16.014
4227			2	-2.109	0	-1.454
4228			3	-2.174	0	11.673
4229			4	-2.566	0	26.494
4230			5	-2.605	0	43.09
4231	66	B2	1	2.394	0	23.772
4232			2	2.78	0	18.615
4233			3	3.411	0	12.53
4234			4	4.307	0	4.996
4235			5	4.859	0	-4.548
4236	66	B3	1	1.832	-2.06	0.737
4237			2	0.966	-2.06	-8.88
4238			3	0.16	-2.06	-12.698
4239			4	-1.079	-2.06	-10.162
4240			5	-3.037	-2.06	3.81
4241	66	B4	1	1.191	1.816	-9.992
4242			2	-0.759	1.816	-11.153
4243			3	-0.901	1.816	-3.687
4244			4	0.302	1.816	-0.169
4245			5	2.177	1.816	-9.882
4246	66	B5	1	-4.614	1.044	-34.459
4247			2	-1.622	1.044	-1.766
4248			3	0.045	1.044	5.343
4249			4	0.483	1.044	2.191
4250			5	0.559	1.044	-3.494
4251	66	B6	1	-0.063	0.493	-3.933
4252			2	-0.236	0.493	-3.229
4253			3	-0.722	0.493	-0.721
4254			4	-1.591	0.493	5.74
4255			5	-2.535	0.493	18.349
4256	66	B7	1	1.175	0.813	10.796
4257			2	0.454	0.813	6.587
4258			3	-0.261	0.813	6.358
4259			4	-0.38	0.813	8.143
4260			5	0.03	0.813	9.138
4261	66	B8	1	-1.158	0.659	1.072
4262			2	-0.584	0.659	5.402
4263			3	0.095	0.659	6.561
4264			4	0.638	0.659	5.016

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
4265			5	1.148	0.659	0.564
4266	66	B9	1	-1.1	2.78	-2.646
4267			2	-0.431	2.78	1.297
4268			3	0.565	2.78	0.914
4269			4	1.769	2.78	-4.661
4270			5	2.858	2.78	-16.326
4271	66	B10	1	-2.99	-5.287	-16.801
4272			2	-1.732	-5.287	-2.745
4273			3	-0.594	-5.287	3.78
4274			4	0.171	-5.287	4.986
4275			5	0.653	-5.287	2.45
4276	66	B11	1	-0.152	-1.758	1.822
4277			2	0.193	-1.758	1.814
4278			3	0.634	-1.758	0.047
4279			4	1.006	-1.758	-3.6
4280			5	1.376	-1.758	-9.145
4281	66	B12	1	-1.017	4.997	-9.01
4282			2	-0.794	4.997	-5.37
4283			3	-0.61	4.997	-2.679
4284			4	-0.627	4.997	-0.303
4285			5	-0.782	4.997	2.514
4286	66	B13	1	-0.366	0.853	-7.571
4287			2	-0.484	0.853	-6.764
4288			3	-0.819	0.853	-5.468
4289			4	-2.183	0.853	-2.13
4290			5	-2.503	0.853	2.454
4291	67	B1	1	-3.056	0	-0.562
4292			2	-1.395	0	13.079
4293			3	-1.352	0	21.012
4294			4	-2.297	0	32.25
4295			5	-3.273	0	50.307
4296	67	B2	1	6.208	0	49.555
4297			2	6.221	0	36.653
4298			3	6.502	0	23.589
4299			4	7.093	0	9.783
4300			5	7.512	0	-5.425
4301	67	B3	1	1.5	-0.448	0.912
4302			2	0.608	-0.448	-6.268
4303			3	-0.027	-0.448	-8.047
4304			4	-0.656	-0.448	-5.906
4305			5	-1.528	-0.448	1.549
4306	67	B4	1	1.287	0.707	5.752
4307			2	0.307	0.707	-0.428
4308			3	-0.041	0.707	-0.802
4309			4	0.477	0.707	-1.9
4310			5	1.444	0.707	-9.551
4311	67	B5	1	-2.117	0.34	-14.824
4312			2	-0.698	0.34	-0.164
4313			3	0.039	0.34	2.733
4314			4	0.224	0.34	1.202
4315			5	0.295	0.34	-1.579
4316	67	B6	1	-0.045	-0.026	-1.679

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
4317			2	-0.053	-0.026	-1.417
4318			3	-0.16	-0.026	-0.88
4319			4	-0.408	-0.026	0.658
4320			5	-0.726	-0.026	4.1
4321	67	B7	1	0.719	-0.125	5.685
4322			2	0.42	-0.125	2.713
4323			3	0.088	-0.125	1.591
4324			4	-0.182	-0.125	1.922
4325			5	-0.25	-0.125	3.084
4326	67	B8	1	-0.082	1.372	2.734
4327			2	-0.051	1.372	3.086
4328			3	0.137	1.372	2.976
4329			4	0.496	1.372	1.654
4330			5	0.953	1.372	-1.932
4331	67	B9	1	-1.234	3.568	-4.625
4332			2	-0.562	3.568	-0.009
4333			3	0.473	3.568	0.169
4334			4	1.728	3.568	-5.067
4335			5	2.859	3.568	-16.641
4336	67	B10	1	-3.073	-4.797	-17.125
4337			2	-1.772	-4.797	-2.701
4338			3	-0.596	-4.797	3.936
4339			4	0.197	-4.797	5.068
4340			5	0.698	-4.797	2.317
4341	67	B11	1	-0.2	-1.005	1.689
4342			2	0.157	-1.005	1.873
4343			3	0.608	-1.005	0.248
4344			4	0.988	-1.005	-3.297
4345			5	1.366	-1.005	-8.778
4346	67	B12	1	-0.955	5.458	-8.483
4347			2	-0.732	5.458	-5.093
4348			3	-0.568	5.458	-2.607
4349			4	-0.638	5.458	-0.305
4350			5	-0.839	5.458	2.649
4351	67	B13	1	0.079	0.897	-7.701
4352			2	-0.053	0.897	-7.745
4353			3	-0.394	0.897	-7.274
4354			4	-2.663	0.897	-3.331
4355			5	-2.966	0.897	2.163
4356	68	B1	1	-3.574	0	15.86
4357			2	-0.637	0	28.525
4358			3	-0.48	0	30.942
4359			4	-2.011	0	38.375
4360			5	-3.984	0	57.989
4361	68	B2	1	10.261	0	76.97
4362			2	10.038	0	55.833
4363			3	9.793	0	35.35
4364			4	10.057	0	14.872
4365			5	10.335	0	-6.36
4366	68	B3	1	1.139	1.308	1.103
4367			2	0.217	1.308	-3.421
4368			3	-0.232	1.308	-2.973

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
4369			4	-0.199	1.308	-1.248
4370			5	0.111	1.308	-0.867
4371	68	B4	1	1.392	-0.451	22.893
4372			2	1.337	-0.451	11.252
4373			3	0.896	-0.451	2.341
4374			4	0.676	-0.451	-3.786
4375			5	0.645	-0.451	-9.197
4376	68	B5	1	0.603	-0.338	6.548
4377			2	0.308	-0.338	1.568
4378			3	0.046	-0.338	-0.108
4379			4	-0.066	-0.338	0.188
4380			5	-0.005	-0.338	0.694
4381	68	B6	1	-0.029	-0.358	0.941
4382			2	0.145	-0.358	0.738
4383			3	0.46	-0.358	-0.881
4384			4	0.908	-0.358	-4.794
4385			5	1.302	-0.358	-11.594
4386	68	B7	1	0.138	-0.683	0.672
4387			2	0.365	-0.683	-0.602
4388			3	0.407	-0.683	-2.661
4389			4	0.252	-0.683	-4.409
4390			5	-0.213	-0.683	-4.42
4391	68	B8	1	0.962	2.041	5.755
4392			2	0.525	2.041	2.078
4393			3	0.243	2.041	0.416
4394			4	0.323	2.041	-0.779
4395			5	0.63	2.041	-3.11
4396	68	B9	1	-0.942	4.324	-3.247
4397			2	-0.384	4.324	0.193
4398			3	0.563	4.324	-0.261
4399			4	1.79	4.324	-5.857
4400			5	2.929	4.324	-17.752
4401	68	B10	1	-3.187	-4.313	-18.164
4402			2	-1.852	-4.313	-3.156
4403			3	-0.633	-4.313	3.823
4404			4	0.197	-4.313	5.066
4405			5	0.722	-4.313	2.239
4406	68	B11	1	-0.247	-0.254	1.605
4407			2	0.123	-0.254	1.977
4408			3	0.586	-0.254	0.481
4409			4	0.972	-0.254	-2.976
4410			5	1.36	-0.254	-8.408
4411	68	B12	1	-0.892	5.92	-7.95
4412			2	-0.67	5.92	-4.818
4413			3	-0.526	5.92	-2.539
4414			4	-0.65	5.92	-0.311
4415			5	-0.899	5.92	2.785
4416	68	B13	1	0.531	0.943	-7.825
4417			2	0.386	0.943	-8.733
4418			3	0.037	0.943	-9.1
4419			4	-3.147	0.943	-4.547
4420			5	-3.433	0.943	1.867

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
4421	69	B1	1	-3.087	0	0.408
4422			2	-1.351	0	13.993
4423			3	-1.301	0	21.603
4424			4	-2.281	0	32.619
4425			5	-3.316	0	50.772
4426	69	B2	1	6.448	0	51.187
4427			2	6.438	0	37.795
4428			3	6.698	0	24.29
4429			4	7.271	0	10.086
4430			5	7.681	0	-5.483
4431	69	B3	1	1.47	-0.304	0.927
4432			2	0.575	-0.304	-6.033
4433			3	-0.045	-0.304	-7.624
4434			4	-0.621	-0.304	-5.503
4435			5	-1.397	-0.304	1.394
4436	69	B4	1	1.295	0.658	7.149
4437			2	0.391	0.658	0.527
4438			3	0.043	0.658	-0.544
4439			4	0.493	0.658	-2.055
4440			5	1.379	0.658	-9.527
4441	69	B5	1	-1.894	0.365	-13.087
4442			2	-0.616	0.365	-0.033
4443			3	0.035	0.365	2.502
4444			4	0.192	0.365	1.177
4445			5	0.259	0.365	-1.222
4446	69	B6	1	-0.047	0.161	-1.313
4447			2	-0.038	0.161	-1.074
4448			3	-0.103	0.161	-0.722
4449			4	-0.275	0.161	0.289
4450			5	-0.506	0.161	2.654
4451	69	B7	1	0.593	0.255	5.783
4452			2	0.369	0.255	3.272
4453			3	0.138	0.255	2.107
4454			4	0.021	0.255	1.812
4455			5	0.067	0.255	1.634
4456	69	B8	1	-0.115	1.327	4.094
4457			2	0.019	1.327	4.394
4458			3	0.182	1.327	4.002
4459			4	0.465	1.327	2.583
4460			5	0.825	1.327	-0.614
4461	69	B9	1	-0.807	3.536	-1.268
4462			2	-0.253	3.536	1.499
4463			3	0.655	3.536	0.484
4464			4	1.83	3.536	-5.452
4465			5	2.927	3.536	-17.437
4466	69	B10	1	-3.104	-4.802	-17.84
4467			2	-1.812	-4.802	-3.199
4468			3	-0.631	-4.802	3.667
4469			4	0.171	-4.802	4.983
4470			5	0.677	-4.802	2.372
4471	69	B11	1	-0.199	-1.007	1.739
4472			2	0.159	-1.007	1.918

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
4473			3	0.611	-1.007	0.28
4474			4	0.991	-1.007	-3.279
4475			5	1.37	-1.007	-8.776
4476	69	B12	1	-0.954	5.459	-8.478
4477			2	-0.731	5.459	-5.094
4478			3	-0.568	5.459	-2.611
4479			4	-0.639	5.459	-0.31
4480			5	-0.841	5.459	2.65
4481	69	B13	1	0.086	0.899	-7.695
4482			2	-0.046	0.899	-7.752
4483			3	-0.388	0.899	-7.294
4484			4	-2.667	0.899	-3.346
4485			5	-2.97	0.899	2.158
4486	70	B1	1	-2.569	0	-16.014
4487			2	-2.109	0	-1.454
4488			3	-2.174	0	11.673
4489			4	-2.566	0	26.494
4490			5	-2.605	0	43.09
4491	70	B2	1	2.394	0	23.772
4492			2	2.78	0	18.615
4493			3	3.411	0	12.53
4494			4	4.307	0	4.996
4495			5	4.859	0	-4.548
4496	70	B3	1	1.832	-2.06	0.737
4497			2	0.966	-2.06	-8.88
4498			3	0.16	-2.06	-12.698
4499			4	-1.079	-2.06	-10.162
4500			5	-3.037	-2.06	3.81
4501	70	B4	1	1.191	1.816	-9.992
4502			2	-0.759	1.816	-11.153
4503			3	-0.901	1.816	-3.687
4504			4	0.302	1.816	-0.169
4505			5	2.177	1.816	-9.882
4506	70	B5	1	-4.614	1.044	-34.459
4507			2	-1.622	1.044	-1.766
4508			3	0.045	1.044	5.343
4509			4	0.483	1.044	2.191
4510			5	0.559	1.044	-3.494
4511	70	B6	1	-0.063	0.493	-3.933
4512			2	-0.236	0.493	-3.229
4513			3	-0.722	0.493	-0.721
4514			4	-1.591	0.493	5.74
4515			5	-2.535	0.493	18.349
4516	70	B7	1	1.175	0.813	10.796
4517			2	0.454	0.813	6.587
4518			3	-0.261	0.813	6.358
4519			4	-0.38	0.813	8.143
4520			5	0.03	0.813	9.138
4521	70	B8	1	-1.158	0.659	1.072
4522			2	-0.584	0.659	5.402
4523			3	0.095	0.659	6.561
4524			4	0.638	0.659	5.016

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
4525			5	1.148	0.659	0.564
4526	70	B9	1	-1.1	2.78	-2.646
4527			2	-0.431	2.78	1.297
4528			3	0.565	2.78	0.914
4529			4	1.769	2.78	-4.661
4530			5	2.858	2.78	-16.326
4531	70	B10	1	-2.99	-5.287	-16.801
4532			2	-1.732	-5.287	-2.745
4533			3	-0.594	-5.287	3.78
4534			4	0.171	-5.287	4.986
4535			5	0.653	-5.287	2.45
4536	70	B11	1	-0.152	-1.758	1.822
4537			2	0.193	-1.758	1.814
4538			3	0.634	-1.758	0.047
4539			4	1.006	-1.758	-3.6
4540			5	1.376	-1.758	-9.145
4541	70	B12	1	-1.017	4.997	-9.01
4542			2	-0.794	4.997	-5.37
4543			3	-0.61	4.997	-2.679
4544			4	-0.627	4.997	-0.303
4545			5	-0.782	4.997	2.514
4546	70	B13	1	-0.366	0.853	-7.571
4547			2	-0.484	0.853	-6.764
4548			3	-0.819	0.853	-5.468
4549			4	-2.183	0.853	-2.13
4550			5	-2.503	0.853	2.454
4551	71	B1	1	-3.056	0	-0.562
4552			2	-1.395	0	13.079
4553			3	-1.352	0	21.012
4554			4	-2.297	0	32.25
4555			5	-3.273	0	50.307
4556	71	B2	1	6.208	0	49.555
4557			2	6.221	0	36.653
4558			3	6.502	0	23.589
4559			4	7.093	0	9.783
4560			5	7.512	0	-5.425
4561	71	B3	1	1.5	-0.448	0.912
4562			2	0.608	-0.448	-6.268
4563			3	-0.027	-0.448	-8.047
4564			4	-0.656	-0.448	-5.906
4565			5	-1.528	-0.448	1.549
4566	71	B4	1	1.287	0.707	5.752
4567			2	0.307	0.707	-0.428
4568			3	-0.041	0.707	-0.802
4569			4	0.477	0.707	-1.9
4570			5	1.444	0.707	-9.551
4571	71	B5	1	-2.117	0.34	-14.824
4572			2	-0.698	0.34	-0.164
4573			3	0.039	0.34	2.733
4574			4	0.224	0.34	1.202
4575			5	0.295	0.34	-1.579
4576	71	B6	1	-0.045	-0.026	-1.679

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
4577			2	-0.053	-0.026	-1.417
4578			3	-0.16	-0.026	-0.88
4579			4	-0.408	-0.026	0.658
4580			5	-0.726	-0.026	4.1
4581	71	B7	1	0.719	-0.125	5.685
4582			2	0.42	-0.125	2.713
4583			3	0.088	-0.125	1.591
4584			4	-0.182	-0.125	1.922
4585			5	-0.25	-0.125	3.084
4586	71	B8	1	-0.082	1.372	2.734
4587			2	-0.051	1.372	3.086
4588			3	0.137	1.372	2.976
4589			4	0.496	1.372	1.654
4590			5	0.953	1.372	-1.932
4591	71	B9	1	-1.234	3.568	-4.625
4592			2	-0.562	3.568	-0.009
4593			3	0.473	3.568	0.169
4594			4	1.728	3.568	-5.067
4595			5	2.859	3.568	-16.641
4596	71	B10	1	-3.073	-4.797	-17.125
4597			2	-1.772	-4.797	-2.701
4598			3	-0.596	-4.797	3.936
4599			4	0.197	-4.797	5.068
4600			5	0.698	-4.797	2.317
4601	71	B11	1	-0.2	-1.005	1.689
4602			2	0.157	-1.005	1.873
4603			3	0.608	-1.005	0.248
4604			4	0.988	-1.005	-3.297
4605			5	1.366	-1.005	-8.778
4606	71	B12	1	-0.955	5.458	-8.483
4607			2	-0.732	5.458	-5.093
4608			3	-0.568	5.458	-2.607
4609			4	-0.638	5.458	-0.305
4610			5	-0.839	5.458	2.649
4611	71	B13	1	0.079	0.897	-7.701
4612			2	-0.053	0.897	-7.745
4613			3	-0.394	0.897	-7.274
4614			4	-2.663	0.897	-3.331
4615			5	-2.966	0.897	2.163
4616	72	B1	1	-3.072	0	-0.077
4617			2	-1.373	0	13.536
4618			3	-1.327	0	21.307
4619			4	-2.289	0	32.435
4620			5	-3.294	0	50.539
4621	72	B2	1	6.328	0	50.371
4622			2	6.33	0	37.224
4623			3	6.6	0	23.94
4624			4	7.182	0	9.934
4625			5	7.597	0	-5.454
4626	72	B3	1	1.485	-0.376	0.92
4627			2	0.591	-0.376	-6.151
4628			3	-0.036	-0.376	-7.835

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
4629			4	-0.639	-0.376	-5.705
4630			5	-1.463	-0.376	1.471
4631	72	B4	1	1.291	0.683	6.45
4632			2	0.349	0.683	0.049
4633			3	0.007	0.683	-0.673
4634			4	0.485	0.683	-1.977
4635			5	1.411	0.683	-9.539
4636	72	B5	1	-2.006	0.353	-13.956
4637			2	-0.657	0.353	-0.099
4638			3	0.037	0.353	2.617
4639			4	0.208	0.353	1.19
4640			5	0.277	0.353	-1.4
4641	72	B6	1	-0.046	0.068	-1.496
4642			2	-0.046	0.068	-1.246
4643			3	-0.131	0.068	-0.801
4644			4	-0.341	0.068	0.473
4645			5	-0.616	0.068	3.377
4646	72	B7	1	0.656	0.065	5.734
4647			2	0.394	0.065	2.992
4648			3	0.113	0.065	1.849
4649			4	-0.083	0.065	1.867
4650			5	-0.091	0.065	2.359
4651	72	B8	1	-0.098	1.35	3.414
4652			2	-0.029	1.35	3.74
4653			3	0.16	1.35	3.489
4654			4	0.481	1.35	2.118
4655			5	0.889	1.35	-1.273
4656	72	B9	1	-1.021	3.552	-2.946
4657			2	-0.407	3.552	0.745
4658			3	0.564	3.552	0.327
4659			4	1.779	3.552	-5.259
4660			5	2.893	3.552	-17.039
4661	72	B10	1	-3.089	-4.8	-17.483
4662			2	-1.792	-4.8	-2.95
4663			3	-0.613	-4.8	3.802
4664			4	0.184	-4.8	5.026
4665			5	0.688	-4.8	2.344
4666	72	B11	1	-0.2	-1.006	1.714
4667			2	0.158	-1.006	1.896
4668			3	0.61	-1.006	0.264
4669			4	0.989	-1.006	-3.288
4670			5	1.368	-1.006	-8.777
4671	72	B12	1	-0.955	5.459	-8.48
4672			2	-0.732	5.459	-5.094
4673			3	-0.568	5.459	-2.609
4674			4	-0.638	5.459	-0.307
4675			5	-0.84	5.459	2.649
4676	72	B13	1	0.083	0.898	-7.698
4677			2	-0.049	0.898	-7.749
4678			3	-0.391	0.898	-7.284
4679			4	-2.665	0.898	-3.339
4680			5	-2.968	0.898	2.16

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
4681	73	B1	1	-3.072	0	-0.077
4682			2	-1.373	0	13.536
4683			3	-1.327	0	21.307
4684			4	-2.289	0	32.435
4685			5	-3.294	0	50.539
4686	73	B2	1	6.328	0	50.371
4687			2	6.33	0	37.224
4688			3	6.6	0	23.94
4689			4	7.182	0	9.934
4690			5	7.597	0	-5.454
4691	73	B3	1	1.485	-0.376	0.92
4692			2	0.591	-0.376	-6.151
4693			3	-0.036	-0.376	-7.835
4694			4	-0.639	-0.376	-5.705
4695			5	-1.463	-0.376	1.471
4696	73	B4	1	1.291	0.683	6.45
4697			2	0.349	0.683	0.049
4698			3	0.007	0.683	-0.673
4699			4	0.485	0.683	-1.977
4700			5	1.411	0.683	-9.539
4701	73	B5	1	-2.006	0.353	-13.956
4702			2	-0.657	0.353	-0.099
4703			3	0.037	0.353	2.617
4704			4	0.208	0.353	1.19
4705			5	0.277	0.353	-1.4
4706	73	B6	1	-0.046	0.068	-1.496
4707			2	-0.046	0.068	-1.246
4708			3	-0.131	0.068	-0.801
4709			4	-0.341	0.068	0.473
4710			5	-0.616	0.068	3.377
4711	73	B7	1	0.656	0.065	5.734
4712			2	0.394	0.065	2.992
4713			3	0.113	0.065	1.849
4714			4	-0.083	0.065	1.867
4715			5	-0.091	0.065	2.359
4716	73	B8	1	-0.098	1.35	3.414
4717			2	-0.029	1.35	3.74
4718			3	0.16	1.35	3.489
4719			4	0.481	1.35	2.118
4720			5	0.889	1.35	-1.273
4721	73	B9	1	-1.021	3.552	-2.946
4722			2	-0.407	3.552	0.745
4723			3	0.564	3.552	0.327
4724			4	1.779	3.552	-5.259
4725			5	2.893	3.552	-17.039
4726	73	B10	1	-3.089	-4.8	-17.483
4727			2	-1.792	-4.8	-2.95
4728			3	-0.613	-4.8	3.802
4729			4	0.184	-4.8	5.026
4730			5	0.688	-4.8	2.344
4731	73	B11	1	-0.2	-1.006	1.714
4732			2	0.158	-1.006	1.896

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
4733			3	0.61	-1.006	0.264
4734			4	0.989	-1.006	-3.288
4735			5	1.368	-1.006	-8.777
4736	73	B12	1	-0.955	5.459	-8.48
4737			2	-0.732	5.459	-5.094
4738			3	-0.568	5.459	-2.609
4739			4	-0.638	5.459	-0.307
4740			5	-0.84	5.459	2.649
4741	73	B13	1	0.083	0.898	-7.698
4742			2	-0.049	0.898	-7.749
4743			3	-0.391	0.898	-7.284
4744			4	-2.665	0.898	-3.339
4745			5	-2.968	0.898	2.16
4746	74	B1	1	-3.072	0	-0.077
4747			2	-1.373	0	13.536
4748			3	-1.327	0	21.307
4749			4	-2.289	0	32.435
4750			5	-3.294	0	50.539
4751	74	B2	1	6.328	0	50.371
4752			2	6.33	0	37.224
4753			3	6.6	0	23.94
4754			4	7.182	0	9.934
4755			5	7.597	0	-5.454
4756	74	B3	1	1.485	-0.376	0.92
4757			2	0.591	-0.376	-6.151
4758			3	-0.036	-0.376	-7.835
4759			4	-0.639	-0.376	-5.705
4760			5	-1.463	-0.376	1.471
4761	74	B4	1	1.291	0.683	6.45
4762			2	0.349	0.683	0.049
4763			3	0.007	0.683	-0.673
4764			4	0.485	0.683	-1.977
4765			5	1.411	0.683	-9.539
4766	74	B5	1	-2.006	0.353	-13.956
4767			2	-0.657	0.353	-0.099
4768			3	0.037	0.353	2.617
4769			4	0.208	0.353	1.19
4770			5	0.277	0.353	-1.4
4771	74	B6	1	-0.046	0.068	-1.496
4772			2	-0.046	0.068	-1.246
4773			3	-0.131	0.068	-0.801
4774			4	-0.341	0.068	0.473
4775			5	-0.616	0.068	3.377
4776	74	B7	1	0.656	0.065	5.734
4777			2	0.394	0.065	2.992
4778			3	0.113	0.065	1.849
4779			4	-0.083	0.065	1.867
4780			5	-0.091	0.065	2.359
4781	74	B8	1	-0.098	1.35	3.414
4782			2	-0.029	1.35	3.74
4783			3	0.16	1.35	3.489
4784			4	0.481	1.35	2.118

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
4785			5	0.889	1.35	-1.273
4786	74	B9	1	-1.021	3.552	-2.946
4787			2	-0.407	3.552	0.745
4788			3	0.564	3.552	0.327
4789			4	1.779	3.552	-5.259
4790			5	2.893	3.552	-17.039
4791	74	B10	1	-3.089	-4.8	-17.483
4792			2	-1.792	-4.8	-2.95
4793			3	-0.613	-4.8	3.802
4794			4	0.184	-4.8	5.026
4795			5	0.688	-4.8	2.344
4796	74	B11	1	-0.2	-1.006	1.714
4797			2	0.158	-1.006	1.896
4798			3	0.61	-1.006	0.264
4799			4	0.989	-1.006	-3.288
4800			5	1.368	-1.006	-8.777
4801	74	B12	1	-0.955	5.459	-8.48
4802			2	-0.732	5.459	-5.094
4803			3	-0.568	5.459	-2.609
4804			4	-0.638	5.459	-0.307
4805			5	-0.84	5.459	2.649
4806	74	B13	1	0.083	0.898	-7.698
4807			2	-0.049	0.898	-7.749
4808			3	-0.391	0.898	-7.284
4809			4	-2.665	0.898	-3.339
4810			5	-2.968	0.898	2.16
4811	75	B1	1	-3.072	0	-0.077
4812			2	-1.373	0	13.536
4813			3	-1.327	0	21.307
4814			4	-2.289	0	32.435
4815			5	-3.294	0	50.539
4816	75	B2	1	6.328	0	50.371
4817			2	6.33	0	37.224
4818			3	6.6	0	23.94
4819			4	7.182	0	9.934
4820			5	7.597	0	-5.454
4821	75	B3	1	1.485	-0.376	0.92
4822			2	0.591	-0.376	-6.151
4823			3	-0.036	-0.376	-7.835
4824			4	-0.639	-0.376	-5.705
4825			5	-1.463	-0.376	1.471
4826	75	B4	1	1.291	0.683	6.45
4827			2	0.349	0.683	0.049
4828			3	0.007	0.683	-0.673
4829			4	0.485	0.683	-1.977
4830			5	1.411	0.683	-9.539
4831	75	B5	1	-2.006	0.353	-13.956
4832			2	-0.657	0.353	-0.099
4833			3	0.037	0.353	2.617
4834			4	0.208	0.353	1.19
4835			5	0.277	0.353	-1.4
4836	75	B6	1	-0.046	0.068	-1.496

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
4837			2	-0.046	0.068	-1.246
4838			3	-0.131	0.068	-0.801
4839			4	-0.341	0.068	0.473
4840			5	-0.616	0.068	3.377
4841	75	B7	1	0.656	0.065	5.734
4842			2	0.394	0.065	2.992
4843			3	0.113	0.065	1.849
4844			4	-0.083	0.065	1.867
4845			5	-0.091	0.065	2.359
4846	75	B8	1	-0.098	1.35	3.414
4847			2	-0.029	1.35	3.74
4848			3	0.16	1.35	3.489
4849			4	0.481	1.35	2.118
4850			5	0.889	1.35	-1.273
4851	75	B9	1	-1.021	3.552	-2.946
4852			2	-0.407	3.552	0.745
4853			3	0.564	3.552	0.327
4854			4	1.779	3.552	-5.259
4855			5	2.893	3.552	-17.039
4856	75	B10	1	-3.089	-4.8	-17.483
4857			2	-1.792	-4.8	-2.95
4858			3	-0.613	-4.8	3.802
4859			4	0.184	-4.8	5.026
4860			5	0.688	-4.8	2.344
4861	75	B11	1	-0.2	-1.006	1.714
4862			2	0.158	-1.006	1.896
4863			3	0.61	-1.006	0.264
4864			4	0.989	-1.006	-3.288
4865			5	1.368	-1.006	-8.777
4866	75	B12	1	-0.955	5.459	-8.48
4867			2	-0.732	5.459	-5.094
4868			3	-0.568	5.459	-2.609
4869			4	-0.638	5.459	-0.307
4870			5	-0.84	5.459	2.649
4871	75	B13	1	0.083	0.898	-7.698
4872			2	-0.049	0.898	-7.749
4873			3	-0.391	0.898	-7.284
4874			4	-2.665	0.898	-3.339
4875			5	-2.968	0.898	2.16
4876	76	B1	1	-2.517	0	21.307
4877			2	0.161	0	28.209
4878			3	0.338	0	25.703
4879			4	-1.003	0	27.439
4880			5	-2.902	0	40.332
4881	76	B2	1	9.07	0	65.892
4882			2	8.793	0	47.292
4883			3	8.369	0	29.668
4884			4	8.169	0	12.584
4885			5	8.232	0	-4.491
4886	76	B3	1	0.426	2.033	0.797
4887			2	-0.147	2.033	-0.03
4888			3	-0.284	2.033	1.818

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
4889			4	0.207	2.033	2.549
4890			5	1.234	2.033	-2.264
4891	76	B4	1	0.909	-1.122	25.923
4892			2	1.534	-1.122	15.055
4893			3	1.203	-1.122	3.638
4894			4	0.619	-1.122	-3.612
4895			5	-0.18	-1.122	-5.265
4896	76	B5	1	2.295	-0.734	19.126
4897			2	0.9	-0.734	2.177
4898			3	0.059	-0.734	-2.082
4899			4	-0.243	-0.734	-0.626
4900			5	-0.21	-0.734	1.965
4901	76	B6	1	0.001	-0.573	2.376
4902			2	0.237	-0.573	1.876
4903			3	0.727	-0.573	-0.687
4904			4	1.487	-0.573	-6.971
4905			5	2.218	-0.573	-18.343
4906	76	B7	1	-0.281	-1.054	-3.821
4907			2	0.248	-1.054	-3.579
4908			3	0.443	-1.054	-5.44
4909			4	0.287	-1.054	-7.453
4910			5	-0.431	-1.054	-6.978
4911	76	B8	1	1.552	2.1	5.26
4912			2	0.818	2.1	-0.614
4913			3	0.23	2.1	-2.804
4914			4	-0.045	2.1	-3.061
4915			5	-0.016	2.1	-2.861
4916	76	B9	1	-0.321	3.366	-1.636
4917			2	-0.118	3.366	-0.47
4918			3	0.312	3.366	-0.929
4919			4	0.923	3.366	-3.859
4920			5	1.506	3.366	-9.98
4921	76	B10	1	-1.667	-2.12	-10.187
4922			2	-0.986	-2.12	-2.293
4923			3	-0.396	-2.12	1.588
4924			4	-0.057	-2.12	2.863
4925			5	0.098	-2.12	2.688
4926	76	B11	1	0.152	0.205	2.345
4927			2	0.236	0.205	1.478
4928			3	0.342	0.205	0.192
4929			4	0.439	0.205	-1.565
4930			5	0.54	0.205	-3.83
4931	76	B12	1	-0.211	3.137	-3.527
4932			2	-0.174	3.137	-2.762
4933			3	-0.249	3.137	-1.985
4934			4	-0.46	3.137	-0.708
4935			5	-0.716	3.137	1.645
4936	76	B13	1	0.865	0.579	-3.834
4937			2	0.745	0.579	-5.411
4938			3	0.495	0.579	-6.576
4939			4	-2.145	0.579	-3.624
4940			5	-2.312	0.579	0.718

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
4941	77	B1	1	-1.867	0	0.704
4942			2	-0.79	0	8.832
4943			3	-0.758	0	13.251
4944			4	-1.362	0	19.765
4945			5	-2.011	0	30.709
4946	77	B2	1	3.986	0	31.515
4947			2	3.969	0	23.242
4948			3	4.116	0	14.922
4949			4	4.451	0	6.202
4950			5	4.694	0	-3.321
4951	77	B3	1	0.869	-0.117	0.563
4952			2	0.33	-0.117	-3.513
4953			3	-0.035	-0.117	-4.383
4954			4	-0.356	-0.117	-3.125
4955			5	-0.777	-0.117	0.751
4956	77	B4	1	0.781	0.357	4.931
4957			2	0.273	0.357	0.754
4958			3	0.059	0.357	-0.209
4959			4	0.303	0.357	-1.304
4960			5	0.798	0.357	-5.705
4961	77	B5	1	-1.035	0.204	-7.054
4962			2	-0.332	0.204	0.042
4963			3	0.019	0.204	1.398
4964			4	0.102	0.204	0.693
4965			5	0.141	0.204	-0.589
4966	77	B6	1	-0.023	0.118	-0.63
4967			2	-0.008	0.118	-0.539
4968			3	-0.023	0.118	-0.476
4969			4	-0.09	0.118	-0.194
4970			5	-0.194	0.118	0.655
4971	77	B7	1	0.326	0.197	2.993
4972			2	0.211	0.197	1.587
4973			3	0.076	0.197	0.917
4974			4	-0.033	0.197	0.842
4975			5	-0.058	0.197	1.094
4976	77	B8	1	0.117	1.149	3.045
4977			2	0.108	1.149	2.474
4978			3	0.098	1.149	1.977
4979			4	0.144	1.149	1.422
4980			5	0.244	1.149	0.468
4981	77	B9	1	-0.142	2.316	1.003
4982			2	0.056	2.316	1.272
4983			3	0.435	2.316	0.065
4984			4	0.977	2.316	-3.319
4985			5	1.504	2.316	-9.561
4986	77	B10	1	-1.556	-2.772	-9.756
4987			2	-0.933	-2.772	-2.351
4988			3	-0.393	-2.772	1.38
4989			4	-0.092	-2.772	2.753
4990			5	0.038	-2.772	2.866
4991	77	B11	1	0.215	-0.799	2.523
4992			2	0.283	-0.799	1.4

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
4993			3	0.376	-0.799	-0.076
4994			4	0.464	-0.799	-1.97
4995			5	0.553	-0.799	-4.32
4996	77	B12	1	-0.293	2.522	-4.231
4997			2	-0.256	2.522	-3.13
4998			3	-0.294	2.522	-2.081
4999			4	-0.445	2.522	-0.706
5000			5	-0.639	2.522	1.464
5001	77	B13	1	0.272	0.521	-3.661
5002			2	0.17	0.521	-4.103
5003			3	-0.072	0.521	-4.168
5004			4	-1.506	0.521	-2.022
5005			5	-1.695	0.521	1.106
5006	78	B1	1	-1.177	0	-21.192
5007			2	-1.801	0	-11.762
5008			3	-1.921	0	0.012
5009			4	-1.743	0	11.598
5010			5	-1.063	0	20.467
5011	78	B2	1	-1.419	0	-5.038
5012			2	-1.18	0	-2.332
5013			3	-0.604	0	-0.758
5014			4	0.5	0	-0.584
5015			5	0.931	0	-2.075
5016	78	B3	1	1.351	-2.459	0.31
5017			2	0.852	-2.459	-7.311
5018			3	0.238	-2.459	-11.151
5019			4	-0.967	-2.459	-9.336
5020			5	-2.958	-2.459	3.973
5021	78	B4	1	0.643	1.902	-17.922
5022			2	-1.197	1.902	-14.824
5023			3	-1.192	1.902	-4.403
5024			4	-0.149	1.902	1.208
5025			5	1.862	1.902	-6.178
5026	78	B5	1	-4.66	1.108	-35.551
5027			2	-1.674	1.108	-2.268
5028			3	-0.055	1.108	5.185
5029			4	0.489	1.108	2.045
5030			5	0.541	1.108	-3.619
5031	78	B6	1	-0.044	0.561	-4.123
5032			2	-0.271	0.561	-3.413
5033			3	-0.849	0.561	-0.475
5034			4	-1.844	0.561	7.074
5035			5	-2.898	0.561	21.581
5036	78	B7	1	1.101	0.941	9.677
5037			2	0.325	0.941	6.006
5038			3	-0.433	0.941	6.585
5039			4	-0.555	0.941	9.282
5040			5	-0.108	0.941	11.1
5041	78	B8	1	-1.274	0.258	-0.984
5042			2	-0.661	0.258	3.818
5043			3	-0.108	0.258	5.389
5044			4	0.375	0.258	4.666

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
5045			5	0.674	0.258	2.039
5046	78	B9	1	-0.532	1.307	-0.835
5047			2	-0.182	1.307	1.003
5048			3	0.314	1.307	0.639
5049			4	0.895	1.307	-2.265
5050			5	1.411	1.307	-8.08
5051	78	B10	1	-1.404	-3.418	-8.37
5052			2	-0.826	-3.418	-1.745
5053			3	-0.344	-3.418	1.531
5054			4	-0.092	-3.418	2.756
5055			5	0.006	-3.418	2.97
5056	78	B11	1	0.278	-1.801	2.635
5057			2	0.328	-1.801	1.262
5058			3	0.406	-1.801	-0.386
5059			4	0.485	-1.801	-2.398
5060			5	0.561	-1.801	-4.812
5061	78	B12	1	-0.377	1.907	-4.941
5062			2	-0.34	1.907	-3.498
5063			3	-0.339	1.907	-2.171
5064			4	-0.429	1.907	-0.697
5065			5	-0.559	1.907	1.284
5066	78	B13	1	-0.33	0.46	-3.496
5067			2	-0.415	0.46	-2.786
5068			3	-0.647	0.46	-1.733
5069			4	-0.861	0.46	-0.4
5070			5	-1.072	0.46	1.501
5071	79	B1	1	-1.826	0	-0.589
5072			2	-0.85	0	7.614
5073			3	-0.826	0	12.464
5074			4	-1.384	0	19.272
5075			5	-1.954	0	30.09
5076	79	B2	1	3.665	0	29.339
5077			2	3.679	0	21.718
5078			3	3.855	0	13.987
5079			4	4.215	0	5.797
5080			5	4.469	0	-3.245
5081	79	B3	1	0.908	-0.308	0.544
5082			2	0.374	-0.308	-3.826
5083			3	-0.011	-0.308	-4.947
5084			4	-0.402	-0.308	-3.662
5085			5	-0.952	-0.308	0.958
5086	79	B4	1	0.77	0.422	3.068
5087			2	0.162	0.422	-0.519
5088			3	-0.046	0.422	-0.552
5089			4	0.282	0.422	-1.098
5090			5	0.884	0.422	-5.737
5091	79	B5	1	-1.331	0.17	-9.37
5092			2	-0.441	0.17	-0.133
5093			3	0.024	0.17	1.705
5094			4	0.144	0.17	0.726
5095			5	0.19	0.17	-1.065
5096	79	B6	1	-0.02	-0.131	-1.117

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
5097			2	-0.027	-0.131	-0.997
5098			3	-0.099	-0.131	-0.687
5099			4	-0.267	-0.131	0.298
5100			5	-0.486	-0.131	2.583
5101	79	B7	1	0.494	-0.311	2.863
5102			2	0.279	-0.311	0.84
5103			3	-0.042	-0.311	0.229
5104			4	-0.297	-0.311	0.988
5105			5	-0.481	-0.311	3.027
5106	79	B8	1	0.16	1.209	1.232
5107			2	0.049	1.209	0.73
5108			3	0.037	1.209	0.609
5109			4	0.186	1.209	0.184
5110			5	0.414	1.209	-1.29
5111	79	B9	1	-0.711	2.357	-3.473
5112			2	-0.355	2.357	-0.739
5113			3	0.191	2.357	-0.355
5114			4	0.841	2.357	-2.806
5115			5	1.413	2.357	-8.499
5116	79	B10	1	-1.515	-2.766	-8.802
5117			2	-0.879	-2.766	-1.687
5118			3	-0.346	-2.766	1.739
5119			4	-0.056	-2.766	2.866
5120			5	0.066	-2.766	2.793
5121	79	B11	1	0.215	-0.797	2.457
5122			2	0.281	-0.797	1.34
5123			3	0.372	-0.797	-0.119
5124			4	0.46	-0.797	-1.993
5125			5	0.548	-0.797	-4.323
5126	79	B12	1	-0.295	2.522	-4.237
5127			2	-0.258	2.522	-3.129
5128			3	-0.294	2.522	-2.075
5129			4	-0.444	2.522	-0.699
5130			5	-0.636	2.522	1.464
5131	79	B13	1	0.263	0.519	-3.67
5132			2	0.161	0.519	-4.094
5133			3	-0.08	0.519	-4.142
5134			4	-1.5	0.519	-2.002
5135			5	-1.689	0.519	1.113
5136	80	B1	1	-1.847	0	0.058
5137			2	-0.82	0	8.223
5138			3	-0.792	0	12.857
5139			4	-1.373	0	19.518
5140			5	-1.982	0	30.399
5141	80	B2	1	3.825	0	30.427
5142			2	3.824	0	22.48
5143			3	3.985	0	14.455
5144			4	4.333	0	6
5145			5	4.582	0	-3.283
5146	80	B3	1	0.888	-0.213	0.554
5147			2	0.352	-0.213	-3.669
5148			3	-0.023	-0.213	-4.665

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
5149			4	-0.379	-0.213	-3.393
5150			5	-0.865	-0.213	0.854
5151	80	B4	1	0.776	0.39	4
5152			2	0.217	0.39	0.117
5153			3	0.011	0.39	-0.38
5154			4	0.293	0.39	-1.201
5155			5	0.841	0.39	-5.721
5156	80	B5	1	-1.183	0.187	-8.212
5157			2	-0.387	0.187	-0.045
5158			3	0.022	0.187	1.552
5159			4	0.123	0.187	0.71
5160			5	0.165	0.187	-0.827
5161	80	B6	1	-0.022	-0.006	-0.873
5162			2	-0.017	-0.006	-0.768
5163			3	-0.061	-0.006	-0.581
5164			4	-0.178	-0.006	0.052
5165			5	-0.34	-0.006	1.619
5166	80	B7	1	0.41	-0.057	2.928
5167			2	0.245	-0.057	1.213
5168			3	0.043	-0.057	0.573
5169			4	-0.165	-0.057	0.915
5170			5	-0.269	-0.057	2.061
5171	80	B8	1	0.139	1.179	2.138
5172			2	0.079	1.179	1.602
5173			3	0.068	1.179	1.293
5174			4	0.165	1.179	0.803
5175			5	0.329	1.179	-0.411
5176	80	B9	1	-0.427	2.336	-1.235
5177			2	-0.15	2.336	0.267
5178			3	0.313	2.336	-0.145
5179			4	0.909	2.336	-3.062
5180			5	1.459	2.336	-9.03
5181	80	B10	1	-1.535	-2.769	-9.279
5182			2	-0.906	-2.769	-2.019
5183			3	-0.37	-2.769	1.559
5184			4	-0.074	-2.769	2.81
5185			5	0.052	-2.769	2.829
5186	80	B11	1	0.215	-0.798	2.49
5187			2	0.282	-0.798	1.37
5188			3	0.374	-0.798	-0.097
5189			4	0.462	-0.798	-1.981
5190			5	0.551	-0.798	-4.321
5191	80	B12	1	-0.294	2.522	-4.234
5192			2	-0.257	2.522	-3.13
5193			3	-0.294	2.522	-2.078
5194			4	-0.444	2.522	-0.702
5195			5	-0.637	2.522	1.464
5196	80	B13	1	0.267	0.52	-3.665
5197			2	0.165	0.52	-4.098
5198			3	-0.076	0.52	-4.155
5199			4	-1.503	0.52	-2.012
5200			5	-1.692	0.52	1.109

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
5201	81	B1	1	-1.847	0	0.058
5202			2	-0.82	0	8.223
5203			3	-0.792	0	12.857
5204			4	-1.373	0	19.518
5205			5	-1.982	0	30.399
5206	81	B2	1	3.825	0	30.427
5207			2	3.824	0	22.48
5208			3	3.985	0	14.455
5209			4	4.333	0	6
5210			5	4.582	0	-3.283
5211	81	B3	1	0.888	-0.213	0.554
5212			2	0.352	-0.213	-3.669
5213			3	-0.023	-0.213	-4.665
5214			4	-0.379	-0.213	-3.393
5215			5	-0.865	-0.213	0.854
5216	81	B4	1	0.776	0.39	4
5217			2	0.217	0.39	0.117
5218			3	0.011	0.39	-0.38
5219			4	0.293	0.39	-1.201
5220			5	0.841	0.39	-5.721
5221	81	B5	1	-1.183	0.187	-8.212
5222			2	-0.387	0.187	-0.045
5223			3	0.022	0.187	1.552
5224			4	0.123	0.187	0.71
5225			5	0.165	0.187	-0.827
5226	81	B6	1	-0.022	-0.006	-0.873
5227			2	-0.017	-0.006	-0.768
5228			3	-0.061	-0.006	-0.581
5229			4	-0.178	-0.006	0.052
5230			5	-0.34	-0.006	1.619
5231	81	B7	1	0.41	-0.057	2.928
5232			2	0.245	-0.057	1.213
5233			3	0.043	-0.057	0.573
5234			4	-0.165	-0.057	0.915
5235			5	-0.269	-0.057	2.061
5236	81	B8	1	0.139	1.179	2.138
5237			2	0.079	1.179	1.602
5238			3	0.068	1.179	1.293
5239			4	0.165	1.179	0.803
5240			5	0.329	1.179	-0.411
5241	81	B9	1	-0.427	2.336	-1.235
5242			2	-0.15	2.336	0.267
5243			3	0.313	2.336	-0.145
5244			4	0.909	2.336	-3.062
5245			5	1.459	2.336	-9.03
5246	81	B10	1	-1.535	-2.769	-9.279
5247			2	-0.906	-2.769	-2.019
5248			3	-0.37	-2.769	1.559
5249			4	-0.074	-2.769	2.81
5250			5	0.052	-2.769	2.829
5251	81	B11	1	0.215	-0.798	2.49
5252			2	0.282	-0.798	1.37

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
5253			3	0.374	-0.798	-0.097
5254			4	0.462	-0.798	-1.981
5255			5	0.551	-0.798	-4.321
5256	81	B12	1	-0.294	2.522	-4.234
5257			2	-0.257	2.522	-3.13
5258			3	-0.294	2.522	-2.078
5259			4	-0.444	2.522	-0.702
5260			5	-0.637	2.522	1.464
5261	81	B13	1	0.267	0.52	-3.665
5262			2	0.165	0.52	-4.098
5263			3	-0.076	0.52	-4.155
5264			4	-1.503	0.52	-2.012
5265			5	-1.692	0.52	1.109
5266	82	B1	1	-1.847	0	0.058
5267			2	-0.82	0	8.223
5268			3	-0.792	0	12.857
5269			4	-1.373	0	19.518
5270			5	-1.982	0	30.399
5271	82	B2	1	3.825	0	30.427
5272			2	3.824	0	22.48
5273			3	3.985	0	14.455
5274			4	4.333	0	6
5275			5	4.582	0	-3.283
5276	82	B3	1	0.888	-0.213	0.554
5277			2	0.352	-0.213	-3.669
5278			3	-0.023	-0.213	-4.665
5279			4	-0.379	-0.213	-3.393
5280			5	-0.865	-0.213	0.854
5281	82	B4	1	0.776	0.39	4
5282			2	0.217	0.39	0.117
5283			3	0.011	0.39	-0.38
5284			4	0.293	0.39	-1.201
5285			5	0.841	0.39	-5.721
5286	82	B5	1	-1.183	0.187	-8.212
5287			2	-0.387	0.187	-0.045
5288			3	0.022	0.187	1.552
5289			4	0.123	0.187	0.71
5290			5	0.165	0.187	-0.827
5291	82	B6	1	-0.022	-0.006	-0.873
5292			2	-0.017	-0.006	-0.768
5293			3	-0.061	-0.006	-0.581
5294			4	-0.178	-0.006	0.052
5295			5	-0.34	-0.006	1.619
5296	82	B7	1	0.41	-0.057	2.928
5297			2	0.245	-0.057	1.213
5298			3	0.043	-0.057	0.573
5299			4	-0.165	-0.057	0.915
5300			5	-0.269	-0.057	2.061
5301	82	B8	1	0.139	1.179	2.138
5302			2	0.079	1.179	1.602
5303			3	0.068	1.179	1.293
5304			4	0.165	1.179	0.803

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
5305			5	0.329	1.179	-0.411
5306	82	B9	1	-0.427	2.336	-1.235
5307			2	-0.15	2.336	0.267
5308			3	0.313	2.336	-0.145
5309			4	0.909	2.336	-3.062
5310			5	1.459	2.336	-9.03
5311	82	B10	1	-1.535	-2.769	-9.279
5312			2	-0.906	-2.769	-2.019
5313			3	-0.37	-2.769	1.559
5314			4	-0.074	-2.769	2.81
5315			5	0.052	-2.769	2.829
5316	82	B11	1	0.215	-0.798	2.49
5317			2	0.282	-0.798	1.37
5318			3	0.374	-0.798	-0.097
5319			4	0.462	-0.798	-1.981
5320			5	0.551	-0.798	-4.321
5321	82	B12	1	-0.294	2.522	-4.234
5322			2	-0.257	2.522	-3.13
5323			3	-0.294	2.522	-2.078
5324			4	-0.444	2.522	-0.702
5325			5	-0.637	2.522	1.464
5326	82	B13	1	0.267	0.52	-3.665
5327			2	0.165	0.52	-4.098
5328			3	-0.076	0.52	-4.155
5329			4	-1.503	0.52	-2.012
5330			5	-1.692	0.52	1.109
5331	83	B1	1	-1.847	0	0.058
5332			2	-0.82	0	8.223
5333			3	-0.792	0	12.857
5334			4	-1.373	0	19.518
5335			5	-1.982	0	30.399
5336	83	B2	1	3.825	0	30.427
5337			2	3.824	0	22.48
5338			3	3.985	0	14.455
5339			4	4.333	0	6
5340			5	4.582	0	-3.283
5341	83	B3	1	0.888	-0.213	0.554
5342			2	0.352	-0.213	-3.669
5343			3	-0.023	-0.213	-4.665
5344			4	-0.379	-0.213	-3.393
5345			5	-0.865	-0.213	0.854
5346	83	B4	1	0.776	0.39	4
5347			2	0.217	0.39	0.117
5348			3	0.011	0.39	-0.38
5349			4	0.293	0.39	-1.201
5350			5	0.841	0.39	-5.721
5351	83	B5	1	-1.183	0.187	-8.212
5352			2	-0.387	0.187	-0.045
5353			3	0.022	0.187	1.552
5354			4	0.123	0.187	0.71
5355			5	0.165	0.187	-0.827
5356	83	B6	1	-0.022	-0.006	-0.873

Beam Section Forces (Continued)

	LC	Beam Label	Sec	y Shear[k]	Torque[k-ft]	z-z Moment[k-ft]
5357			2	-0.017	-0.006	-0.768
5358			3	-0.061	-0.006	-0.581
5359			4	-0.178	-0.006	0.052
5360			5	-0.34	-0.006	1.619
5361	83	B7	1	0.41	-0.057	2.928
5362			2	0.245	-0.057	1.213
5363			3	0.043	-0.057	0.573
5364			4	-0.165	-0.057	0.915
5365			5	-0.269	-0.057	2.061
5366	83	B8	1	0.139	1.179	2.138
5367			2	0.079	1.179	1.602
5368			3	0.068	1.179	1.293
5369			4	0.165	1.179	0.803
5370			5	0.329	1.179	-0.411
5371	83	B9	1	-0.427	2.336	-1.235
5372			2	-0.15	2.336	0.267
5373			3	0.313	2.336	-0.145
5374			4	0.909	2.336	-3.062
5375			5	1.459	2.336	-9.03
5376	83	B10	1	-1.535	-2.769	-9.279
5377			2	-0.906	-2.769	-2.019
5378			3	-0.37	-2.769	1.559
5379			4	-0.074	-2.769	2.81
5380			5	0.052	-2.769	2.829
5381	83	B11	1	0.215	-0.798	2.49
5382			2	0.282	-0.798	1.37
5383			3	0.374	-0.798	-0.097
5384			4	0.462	-0.798	-1.981
5385			5	0.551	-0.798	-4.321
5386	83	B12	1	-0.294	2.522	-4.234
5387			2	-0.257	2.522	-3.13
5388			3	-0.294	2.522	-2.078
5389			4	-0.444	2.522	-0.702
5390			5	-0.637	2.522	1.464
5391	83	B13	1	0.267	0.52	-3.665
5392			2	0.165	0.52	-4.098
5393			3	-0.076	0.52	-4.155
5394			4	-1.503	0.52	-2.012
5395			5	-1.692	0.52	1.109

Beam Design Results

	Beam	Shape	UC M...	Loc[ft]	LC	UC M...	Loc[ft]	LC	Shear UC	Loc[ft]	LC	Phi*Mnz ..	Phi*Mnz ..	Phi*Vny[k]
1	B1	CRECT3...	0.734	25	6	0.148	0	22	0.325	0	6	196.669	248.574	54.858
2	B2	CRECT3...	0.647	0	6	0.11	8.33	6	0.489	6.247	6	265.276	248.574	57.312
3	B3	CRECT3...	0.106	13.254	6	0.07	16.135	26	0.087	26.796	26	196.669	248.574	57.419
4	B4	CRECT3...	0.23	0	20	0.353	32.83	6	0.292	31.804	8	196.669	248.574	54.858
5	B5	CRECT3...	0.165	21	8	0.493	0	8	0.356	0	8	196.669	248.574	54.858
6	B6	CRECT3...	0.163	24.533	26	0.202	0	8	0.18	0	6	196.669	248.574	54.858
7	B7	CRECT3...	0.173	13.495	8	0.107	0	6	0.151	0	6	196.669	248.574	54.858
8	B8	CRECT3...	0.196	7.947	8	0.177	20.077	6	0.244	19.241	8	196.669	248.574	54.858
9	B9	CRECT3...	0.083	9.358	5	0.373	19.963	5	0.358	18.923	5	196.669	248.574	54.858

Beam Design Results (Continued)

	Beam	Shape	UC M...	Loc[ft]	LC	UC M...	Loc[ft]	LC	Shear UC	Loc[ft]	LC	Phi*Mnz ...	Phi*Mnz ...	Phi*Vny[k]
10	B10	CRECT3...	0.177	13.331	5	0.384	0	5	0.371	0	5	196.669	248.574	54.858
11	B11	CRECT3...	0.064	8.186	5	0.172	18.277	5	0.19	17.325	5	196.669	248.574	54.858
12	B12	CRECT3...	0.07	11.097	5	0.169	0	5	0.184	0	5	196.669	248.574	54.858
13	B13	CRECT3...	0.035	7.75	8	0.102	0	5	0.099	0	8	196.669	248.574	54.851

Beam Bending Reinforcement

	Beam	Shape	Span	Left Top	Left Bot	Mid Top	Mid Bot	Right Top	Right Bot
1	B1	CRECT36X18	1		4 #6			3 #6	
2	B2	CRECT36X18	1	3 #7	4 #6				4 #6
3	B3	CRECT36X18	1	3 #6	4 #6	3 #6	4 #6	3 #6	4 #6
4	B4	CRECT36X18	1	3 #6	4 #6		4 #6		4 #6
5	B5	CRECT36X18	1	3 #6	4 #6	3 #6	4 #6	3 #6	4 #6
6	B6	CRECT36X18	1	3 #6	4 #6	3 #6		3 #6	4 #6
7	B7	CRECT36X18	1	3 #6	4 #6	3 #6	4 #6	3 #6	4 #6
8	B8	CRECT36X18	1		4 #6	3 #6	4 #6		4 #6
9	B9	CRECT36X18	1	3 #6	4 #6	3 #6			4 #6
10	B10	CRECT36X18	1		4 #6	3 #6		3 #6	4 #6
11	B11	CRECT36X18	1	3 #6	4 #6	3 #6			4 #6
12	B12	CRECT36X18	1		4 #6	3 #6		3 #6	
13	B13	CRECT36X18	1		4 #6			3 #6	

Beam Shear Reinforcement

	Beam	Span	Region 1	Region 2	Region 3	Region 4
1	B1	1				
2	B2	1				1 #4 @16in
3	B3	1				
4	B4	1				
5	B5	1				
6	B6	1				
7	B7	1				
8	B8	1				
9	B9	1				
10	B10	1				
11	B11	1				
12	B12	1				
13	B13	1				

Design Cut Results

Label	UC Top	LC	UC Bot	LC	Shear UC	LC	Phi*Mnz ...	Phi*Mnz ...	Phi*Vny[k]	Top Flex ...	Bot/Mid F...
No Data to Print ...											

Strip Reinforcing

Label	UC Top	LC	Top Bars	Governin...	UC Bot	LC	Bot Bars/...	Governin...	UC Shear	LC	Governin...
No Data to Print ...											

Footing Geometry Results

	Joint	Footing	Length[ft]	Width[ft]	Thickness[in]	ex[in]	ez[in]	Pedestal Ht[in]	Ped Xdim[in]	Ped Zdim[in]
1	R3D_N328	Footing 1	4	4	15	0	0	24	12	12
2	R3D_N245	Footing 1	4	4	15	0	0	24	12	12

Footing Geometry Results (Continued)

	Joint	Footing	Length[ft]	Width[ft]	Thickness[in]	ex[in]	ez[in]	Pedestal Ht[in]	Ped Xdim[in]	Ped Zdim[in]
3	R3D_N247	Footing 1	4	4	15	0	0	24	12	12
4	R3D_N248	Footing 1	4	4	15	0	0	24	12	12
5	R3D_N243	Footing 1	6	6	36	0	0	24	12	12
6	R3D_N241	Footing 1	8	8	36	0	0	24	12	12
7	R3D_N18	Footing 1	6	6	36	0	0	24	12	12
8	R3D_N17	Footing 1	7	7	36	0	0	24	12	12
9	R3D_N16	Footing 1	7	7	36	0	0	24	12	12
10	R3D_N288	Footing 1	9	9	36	0	0	24	12	12
11	R3D_N280	Footing 1	9	9	36	0	0	24	12	12
12	R3D_N239	Footing 1	5	5	36	0	0	24	12	12
13	R3D_N15	Footing 1	8	8	42	0	0	24	12	12
14	R3D_N235	Footing 1	3	3.5	12	0	0	24	12	12
15	R3D_N14	Footing 1	8	8	42	0	0	24	12	12
16	R3D_N291	Footing 1	6	6	36	0	0	24	12	12
17	R3D_N13	Footing 1	9	9	42	0	0	24	12	12
18	R3D_N19	Footing 1	9	9	42	0	0	24	12	12
19	R3D_N234	Footing 1	7	7	24	0	0	24	12	12

Footing Steel

	Joint	Footing	Bot x Steel[in^2]	Bot z Steel[in^2]	Top x Steel[in...	Top z Steel[in...	Ped Long	Ped Shear
1	R3D_N328	Footing 1	1.767	1.767	0	0	4#6	#4@12 in
2	R3D_N245	Footing 1	1.767	1.767	0	0	4#6	#4@12 in
3	R3D_N247	Footing 1	1.767	1.767	0	0	4#6	#4@12 in
4	R3D_N248	Footing 1	1.767	1.767	0	0	4#6	#4@12 in
5	R3D_N243	Footing 1	4.86	4.86	0	0	4#6	#4@12 in
6	R3D_N241	Footing 1	6.627	6.627	0	0	4#6	#4@12 in
7	R3D_N18	Footing 1	4.86	4.86	0	0	4#6	#4@12 in
8	R3D_N17	Footing 1	5.743	5.743	0	0	4#6	#4@12 in
9	R3D_N16	Footing 1	5.743	5.743	0	0	4#6	#4@12 in
10	R3D_N288	Footing 1	7.069	7.069	0	0	12#6	#4@12 in
11	R3D_N280	Footing 1	7.069	7.069	0	0	12#6	#4@12 in
12	R3D_N239	Footing 1	3.976	3.976	0	0	4#6	#4@12 in
13	R3D_N15	Footing 1	7.51	7.51	0	0	8#6	#4@12 in
14	R3D_N235	Footing 1	1.325	2.209(banded)	0	0	4#6	#4@12 in
15	R3D_N14	Footing 1	7.51	7.51	0	0	8#6	#4@12 in
16	R3D_N291	Footing 1	4.86	4.86	0	0	4#6	#4@12 in
17	R3D_N13	Footing 1	8.394	8.394	0	0	4#6	#4@12 in
18	R3D_N19	Footing 1	8.394	8.394	0	0	8#6	#4@12 in
19	R3D_N234	Footing 1	3.976	3.976	0	0	4#6	#4@12 in

Footing Code Check

	Joint	Footing	Bearing Ra...	Bearing Pr...	Gov LC	UC Max	Muxx[k-ft]	Gov LC	UC Max	Muzz[k-ft]	Gov LC
1	R3D_N328	Footing 1	0.762	2.286	46	0.119	10.329	5	0.135	11.77	8
2	R3D_N245	Footing 1	0.55	1.649	46	0.065	5.681	6	0.085	7.422	5
3	R3D_N247	Footing 1	0.373	1.119	46	0.05	4.368	6	0.058	5.068	6
4	R3D_N248	Footing 1	0.679	2.037	46	0.125	10.88	8	0.128	11.157	8
5	R3D_N243	Footing 1	0.51	1.53	60	0.033	23.085	5	0.037	25.441	6
6	R3D_N241	Footing 1	0.567	1.7	46	0.058	54.92	5	0.075	70.965	8
7	R3D_N18	Footing 1	0.613	1.839	46	0.047	32.711	8	0.044	30.461	8
8	R3D_N17	Footing 1	0.518	1.553	62	0.042	34.624	8	0.049	40.18	8
9	R3D_N16	Footing 1	0.453	1.359	60	0.034	27.556	6	0.04	32.412	6

Footing Code Check (Continued)

	Joint	Footing	Bearing Ra...	Bearing Pr...	Gov LC	UC Max	Muxx[k-ft]	Gov LC	UC Max	Muzz[k-ft]	Gov LC
10	R3D_N288	Footing 1	0.64	1.919	62	0.084	84.421	21	0.064	64.383	22
11	R3D_N280	Footing 1	0.762	2.287	62	0.095	95.912	7	0.105	106.138	22
12	R3D_N239	Footing 1	0.613	1.838	46	0.031	17.672	6	0.03	16.91	6
13	R3D_N15	Footing 1	0.516	1.548	62	0.035	44.885	8	0.048	60.531	8
14	R3D_N235	Footing 1	0.982	2.945	46	0.086	6.622	8	0.184	8.683	6
15	R3D_N14	Footing 1	0.469	1.406	60	0.021	26.529	6	0.04	50.161	20
16	R3D_N291	Footing 1	0.555	1.666	46	0.035	24.368	5	0.041	28.356	5
17	R3D_N13	Footing 1	0.57	1.709	60	0.062	88.141	6	0.08	113.822	6
18	R3D_N19	Footing 1	0.405	1.216	62	0.023	32.236	8	0.037	52.194	8
19	R3D_N234	Footing 1	0.661	1.983	46	0.178	63.322	8	0.206	73.041	8

Footing Shear Check

	Joint	Footing	UC Shear	Vux[k]	Gov LC	UC Shear	Vuz[k]	Gov LC
1	R3D_N328	Footing 1	0.101	5.186	5	0.117	6.014	8
2	R3D_N245	Footing 1	0.056	2.86	6	0.075	3.866	5
3	R3D_N247	Footing 1	0.043	2.184	6	0.05	2.586	6
4	R3D_N248	Footing 1	0.106	5.44	8	0.109	5.603	6
5	R3D_N243	Footing 1	0	0.022	5	0	0.026	6
6	R3D_N241	Footing 1	0.025	7.398	5	0.034	10.124	8
7	R3D_N18	Footing 1	0	0.033	8	0	0.03	8
8	R3D_N17	Footing 1	0.01	2.506	8	0.012	3.022	8
9	R3D_N16	Footing 1	0.008	1.965	6	0.009	2.416	6
10	R3D_N288	Footing 1	0.049	16.191	21	0.038	12.587	22
11	R3D_N280	Footing 1	0.053	17.546	7	0.06	19.99	22
12	R3D_N239	Footing 1	0	0.023	7	0	0.021	6
13	R3D_N15	Footing 1	0.007	2.3	8	0.01	3.383	8
14	R3D_N235	Footing 1	0.129	4.228	8	0.225	6.34	6
15	R3D_N14	Footing 1	0.004	1.377	6	0.009	3.037	20
16	R3D_N291	Footing 1	0	0.024	5	0	0.029	5
17	R3D_N13	Footing 1	0.023	8.952	6	0.031	12.324	6
18	R3D_N19	Footing 1	0.008	3.274	8	0.015	5.939	22
19	R3D_N234	Footing 1	0.114	18.469	8	0.134	21.693	8

Footing Pedestal Results

	Joint	Footing	UC Bend	UC Bend LC	UC Shear	UC Shear LC	UC Punch	UC Punch LC
1	R3D_N328	Footing 1	0.058	8	0.023	8	0.142	5
2	R3D_N245	Footing 1	0.059	8	0.02	6	0.077	6
3	R3D_N247	Footing 1	0.051	6	0.026	5	0.062	6
4	R3D_N248	Footing 1	0.127	8	0.015	6	0.154	8
5	R3D_N243	Footing 1	0.143	6	0.139	6	NA	NC
6	R3D_N241	Footing 1	0.425	6	0.266	8	0.071	5
7	R3D_N18	Footing 1	0.132	22	0.115	8	NA	NC
8	R3D_N17	Footing 1	0.315	22	0.201	6	0.046	8
9	R3D_N16	Footing 1	0.423	20	0.188	20	0.038	6
10	R3D_N288	Footing 1	2.432	22	0.249	20	0.039	6
11	R3D_N280	Footing 1	2.196	22	0.244	22	0.061	8
12	R3D_N239	Footing 1	0.083	22	0	NC	NA	NC
13	R3D_N15	Footing 1	0.608	22	0.345	22	0.045	8
14	R3D_N235	Footing 1	0.114	8	0	NC	0.196	8
15	R3D_N14	Footing 1	0.558	20	0.368	20	0.025	6
16	R3D_N291	Footing 1	0.255	5	0.174	5	NA	NC

Footing Pedestal Results (Continued)

	Joint	Footing	UC Bend	UC Bend LC	UC Shear	UC Shear LC	UC Punch	UC Punch LC
17	R3D_N13	Footing 1	0.94	38	0.306	20	0.083	6
18	R3D_N19	Footing 1	0.644	36	0.315	22	0.03	8
19	R3D_N234	Footing 1	0.506	6	0	8	0.208	8

Footing Safety Factors

	Joint	Footing	OSF-xx	LC	OSF-zz	LC	SR-xx	LC	SR-zz	LC
1	R3D_N328	Footing 1	8.882	76	9.086	76	25.213	60	20.26	62
2	R3D_N245	Footing 1	7.461	78	5.506	78	177.319	46	15.125	60
3	R3D_N247	Footing 1	16.842	45	10.667	45	9.427	60	946.837	62
4	R3D_N248	Footing 1	27.02	76	16.191	76	18.965	76	383.491	76
5	R3D_N243	Footing 1	71.206	78	10.748	60	5.121	60	57.124	76
6	R3D_N241	Footing 1	30.104	62	6.428	46	2.239	46	11.025	46
7	R3D_N18	Footing 1	8.139	76	7.703	76	7.882	76	5.851	78
8	R3D_N17	Footing 1	2.904	76	2.19	76	1.592	76	3.202	76
9	R3D_N16	Footing 1	4.472	78	2.452	78	1.378	78	7.815	78
10	R3D_N288	Footing 1	2.018	77	1.773	78	2.081	76	2.24	79
11	R3D_N280	Footing 1	2.209	77	2.093	76	1.871	78	3.106	77
12	R3D_N239	Footing 1	21.112	76	14.315	76	NA	1	NA	1
13	R3D_N15	Footing 1	3.302	76	1.719	76	0.976	76	NA	1
14	R3D_N235	Footing 1	8.858	76	3.943	76	NA	1	NA	1
15	R3D_N14	Footing 1	3.531	78	1.659	78	0.767	78	NA	1
16	R3D_N291	Footing 1	139.748	60	9.307	60	4.432	60	78.181	60
17	R3D_N13	Footing 1	4.027	78	2.248	78	1.212	78	NA	1
18	R3D_N19	Footing 1	4.301	76	2.178	76	1.094	76	NA	1
19	R3D_N234	Footing 1	6.752	76	4.813	76	NA	1	NA	1

Envelope Soil Pressures

	Label	Max UC	Max LC	Soil Pressure[ksf]	Allowable Bearing[ksf]
1	R3D_N328	0.762	46	2.286	3
2	R3D_N245	0.55	46	1.649	3
3	R3D_N247	0.373	46	1.119	3
4	R3D_N248	0.679	46	2.037	3
5	R3D_N243	0.507	46	1.522	3
6	R3D_N241	0.567	46	1.7	3
7	R3D_N18	0.613	46	1.839	3
8	R3D_N17	0.518	62	1.553	3
9	R3D_N16	0.453	60	1.359	3
10	R3D_N288	0.498	78	1.493	3
11	R3D_N280	0.378	77	1.135	3
12	R3D_N239	0.613	46	1.838	3
13	R3D_N15	0.516	62	1.548	3
14	R3D_N235	0.982	46	2.945	3
15	R3D_N14	0.469	60	1.406	3
16	R3D_N291	0.555	46	1.666	3
17	R3D_N13	0.57	60	1.709	3
18	R3D_N19	0.405	62	1.216	3
19	R3D_N234	0.661	46	1.983	3
20	R3D_N20	0	44	0	3
21	R3D_N24	0	44	0	3
22	R3D_N21	0	44	0	3
23	R3D_N22	0	44	0	3

Envelope Soil Pressures (Continued)

	Label	Max UC	Max LC	Soil Pressure[ksf]	Allowable Bearing[ksf]
24	R3D_N23	0	44	0	3
25	R3D_N226	0	44	0	3
26	R3D_N227	0	44	0	3
27	R3D_N228	0	44	0	3
28	R3D_N229	0	44	0	3
29	R3D_N230	0	44	0	3
30	R3D_N231	0	44	0	3
31	R3D_N232	0	44	0	3
32	R3D_N233	0	44	0	3
33	R3D_N2970	0	44	0	3
34	R3D_N2962	0	44	0	3
35	R3D_N2898	0	44	0	3
36	R3D_N2899	0	44	0	3
37	R3D_N2904	0	44	0	3
38	R3D_N2905	0	44	0	3
39	R3D_N2965	0	44	0	3
40	R3D_N2875	0	44	0	3
41	R3D_N2915	0	44	0	3
42	R3D_N2916	0	44	0	3
43	R3D_N3073	0	44	0	3
44	R3D_N3108	0	44	0	3
45	R3D_N3068	0	44	0	3
46	R3D_N2636	0	44	0	3
47	R3D_N2637	0	44	0	3
48	R3D_N2638	0	44	0	3
49	R3D_N2639	0	44	0	3
50	R3D_N2640	0	44	0	3
51	R3D_N2644	0	44	0	3
52	R3D_N2647	0	44	0	3
53	R3D_N2857	0	44	0	3
54	R3D_N2858	0	44	0	3
55	R3D_N2803	0	44	0	3
56	R3D_N2808	0	44	0	3
57	R3D_N2809	0	44	0	3
58	R3D_N2805	0	44	0	3
59	R3D_N2864	0	44	0	3
60	R3D_N2798	0	44	0	3
61	R3D_N2861	0	44	0	3
62	R3D_N2790	0	44	0	3
63	R3D_N2859	0	44	0	3
64	R3D_N2860	0	44	0	3
65	R3D_N2796	0	44	0	3
66	R3D_N2784	0	44	0	3
67	R3D_N2851	0	44	0	3
68	R3D_N2758	0	44	0	3
69	R3D_N2685	0	44	0	3
70	R3D_N2852	0	44	0	3
71	R3D_N2765	0	44	0	3
72	R3D_N2683	0	44	0	3
73	R3D_N2684	0	44	0	3
74	R3D_N2848	0	44	0	3
75	R3D_N2849	0	44	0	3

Envelope Soil Pressures (Continued)

	Label	Max UC	Max LC	Soil Pressure[ksf]	Allowable Bearing[ksf]
76	R3D_N2771	0	44	0	3
77	R3D_N2854	0	44	0	3
78	R3D_N2855	0	44	0	3
79	R3D_N2782	0	44	0	3
80	R3D_N2773	0	44	0	3
81	R3D_N2856	0	44	0	3
82	R3D_N2828	0	44	0	3
83	R3D_N2829	0	44	0	3
84	R3D_N2711	0	44	0	3
85	R3D_N2715	0	44	0	3
86	R3D_N2716	0	44	0	3
87	R3D_N2717	0	44	0	3
88	R3D_N2713	0	44	0	3
89	R3D_N2836	0	44	0	3
90	R3D_N2700	0	44	0	3
91	R3D_N2701	0	44	0	3
92	R3D_N2692	0	44	0	3
93	R3D_N2704	0	44	0	3
94	R3D_N2705	0	44	0	3
95	R3D_N2706	0	44	0	3
96	R3D_N2837	0	44	0	3
97	R3D_N2838	0	44	0	3
98	R3D_N2739	0	44	0	3
99	R3D_N2742	0	44	0	3
100	R3D_N2743	0	44	0	3
101	R3D_N2744	0	44	0	3
102	R3D_N2741	0	44	0	3
103	R3D_N2847	0	44	0	3
104	R3D_N2722	0	44	0	3
105	R3D_N2723	0	44	0	3
106	R3D_N2724	0	44	0	3
107	R3D_N2729	0	44	0	3
108	R3D_N2730	0	44	0	3
109	R3D_N2734	0	44	0	3
110	R3D_N2735	0	44	0	3
111	R3D_N2736	0	44	0	3
112	R3D_N2792	0	44	0	3
113	R3D_N2863	0	44	0	3
114	R3D_N2694	0	44	0	3
115	R3D_N2835	0	44	0	3
116	R3D_N2791	0	44	0	3
117	R3D_N2804	0	44	0	3
118	R3D_N2767	0	44	0	3
119	R3D_N2862	0	44	0	3
120	R3D_N2797	0	44	0	3
121	R3D_N2766	0	44	0	3
122	R3D_N2759	0	44	0	3
123	R3D_N2783	0	44	0	3
124	R3D_N2772	0	44	0	3
125	R3D_N2853	0	44	0	3
126	R3D_N2693	0	44	0	3
127	R3D_N2712	0	44	0	3

Envelope Soil Pressures (Continued)

	Label	Max UC	Max LC	Soil Pressure[ksf]	Allowable Bearing[ksf]
128	R3D_N2830	0	44	0	3
129	R3D_N2831	0	44	0	3
130	R3D_N2832	0	44	0	3
131	R3D_N2833	0	44	0	3
132	R3D_N2740	0	44	0	3
133	R3D_N2845	0	44	0	3
134	R3D_N2839	0	44	0	3
135	R3D_N2840	0	44	0	3
136	R3D_N2841	0	44	0	3
137	R3D_N2842	0	44	0	3
138	R3D_N2892	0	44	0	3
139	R3D_N2893	0	44	0	3
140	R3D_N2894	0	44	0	3
141	R3D_N2897	0	44	0	3
142	R3D_N2903	0	44	0	3
143	R3D_N2878	0	44	0	3
144	R3D_N2879	0	44	0	3
145	R3D_N2880	0	44	0	3
146	R3D_N2969	0	44	0	3
147	R3D_N2966	0	44	0	3
148	R3D_N2946	0	44	0	3
149	R3D_N2909	0	44	0	3
150	R3D_N2910	0	44	0	3
151	R3D_N2911	0	44	0	3
152	R3D_N2914	0	44	0	3
153	R3D_N2924	0	44	0	3
154	R3D_N2925	0	44	0	3
155	R3D_N2926	0	44	0	3
156	R3D_N2932	0	44	0	3
157	R3D_N2933	0	44	0	3
158	R3D_N2944	0	44	0	3
159	R3D_N2945	0	44	0	3
160	R3D_N2979	0	44	0	3
161	R3D_N2980	0	44	0	3
162	R3D_N2963	0	44	0	3
163	R3D_N2967	0	44	0	3
164	R3D_N2972	0	44	0	3
165	R3D_N2908	0	44	0	3
166	R3D_N2877	0	44	0	3
167	R3D_N2964	0	44	0	3
168	R3D_N2876	0	44	0	3
169	R3D_N2973	0	44	0	3
170	R3D_N2974	0	44	0	3
171	R3D_N2976	0	44	0	3
172	R3D_N2919	0	44	0	3
173	R3D_N2920	0	44	0	3
174	R3D_N2977	0	44	0	3
175	R3D_N2978	0	44	0	3
176	R3D_N2981	0	44	0	3
177	R3D_N3038	0	44	0	3
178	R3D_N3039	0	44	0	3
179	R3D_N3014	0	44	0	3

Envelope Soil Pressures (Continued)

	Label	Max UC	Max LC	Soil Pressure[ksf]	Allowable Bearing[ksf]
180	R3D_N3106	0	44	0	3
181	R3D_N3107	0	44	0	3
182	R3D_N3071	0	44	0	3
183	R3D_N3061	0	44	0	3
184	R3D_N3062	0	44	0	3
185	R3D_N3063	0	44	0	3
186	R3D_N3056	0	44	0	3
187	R3D_N3109	0	44	0	3
188	R3D_N3078	0	44	0	3
189	R3D_N3079	0	44	0	3
190	R3D_N3080	0	44	0	3
191	R3D_N3081	0	44	0	3
192	R3D_N3082	0	44	0	3
193	R3D_N3086	0	44	0	3
194	R3D_N3087	0	44	0	3
195	R3D_N3037	0	44	0	3
196	R3D_N3100	0	44	0	3
197	R3D_N3101	0	44	0	3
198	R3D_N3102	0	44	0	3
199	R3D_N3054	0	44	0	3
200	R3D_N3095	0	44	0	3
201	R3D_N3096	0	44	0	3
202	R3D_N3035	0	44	0	3
203	R3D_N3022	0	44	0	3
204	R3D_N3092	0	44	0	3
205	R3D_N3023	0	44	0	3
206	R3D_N3104	0	44	0	3
207	R3D_N3105	0	44	0	3
208	R3D_N3072	0	44	0	3
209	R3D_N3069	0	44	0	3
210	R3D_N3055	0	44	0	3
211	R3D_N3111	0	44	0	3
212	R3D_N3113	0	44	0	3
213	R3D_N3036	0	44	0	3
214	R3D_N3016	0	44	0	3
215	R3D_N3103	0	44	0	3
216	R3D_N3015	0	44	0	3
217	R3D_N3020	0	44	0	3
218	R3D_N3021	0	44	0	3
219	R3D_N3025	0	44	0	3
220	R3D_N3099	0	44	0	3
221	R3D_N3024	0	44	0	3
222	R3D_N3094	0	44	0	3
223	R3D_N271	0.176	46	0.527	3
224	N224	0.525	46	1.575	3
225	N225	0.485	46	1.454	3
226	N226	0.445	46	1.335	3
227	N227	0.407	46	1.221	3
228	N228	0.37	46	1.111	3
229	N229	0.335	46	1.006	3
230	N230	0.303	46	0.908	3
231	N231	0.272	46	0.816	3

Envelope Soil Pressures (Continued)

	Label	Max UC	Max LC	Soil Pressure[ksf]	Allowable Bearing[ksf]
232	N232	0.244	46	0.731	3
233	N233	0.218	46	0.655	3
234	N234	0.195	46	0.586	3
235	N235	0.175	46	0.526	3
236	N236	0.162	62	0.485	3
237	N237	0.154	62	0.461	3
238	N238	0.148	62	0.443	3
239	N239	0.144	62	0.433	3
240	N240	0.144	62	0.431	3
241	N241	0.145	62	0.436	3
242	N242	0.15	62	0.451	3
243	N243	0.158	62	0.473	3
244	N244	0.168	62	0.505	3
245	N245	0.182	62	0.547	3
246	N246	0.199	62	0.598	3
247	N247	0.22	62	0.66	3
248	N248	0.273	62	0.819	3
249	N249	0.305	62	0.915	3
250	N250	0.344	46	1.033	3
251	N251	0.391	46	1.172	3
252	N252	0.439	46	1.318	3
253	N253	0.49	46	1.471	3
254	N254	0.542	46	1.627	3
255	N255	0.213	46	0.639	3
256	N256	0.208	46	0.623	3
257	N257	0.202	46	0.607	3
258	N258	0.197	46	0.591	3
259	N259	0.192	46	0.577	3
260	N260	0.188	46	0.563	3
261	N261	0.183	46	0.55	3
262	N262	0.179	46	0.538	3
263	N263	0.176	46	0.528	3
264	N264	0.173	46	0.518	3
265	N265	0.17	46	0.51	3
266	N266	0.168	46	0.503	3
267	N267	0.166	60	0.499	3
268	N268	0.167	60	0.502	3
269	N269	0.169	60	0.506	3
270	N270	0.17	60	0.511	3
271	N271	0.172	60	0.517	3
272	N272	0.175	60	0.525	3
273	N273	0.178	60	0.533	3
274	N274	0.181	60	0.543	3
275	N275	0.185	60	0.554	3
276	N276	0.189	60	0.566	3
277	N277	0.193	60	0.578	3
278	N278	0.197	60	0.592	3
279	N279	0.202	60	0.605	3
280	N280	0.207	60	0.62	3
281	N281	0.201	60	0.604	3
282	N282	0.193	60	0.578	3
283	N283	0.185	60	0.555	3

Envelope Soil Pressures (Continued)

	Label	Max UC	Max LC	Soil Pressure[ksf]	Allowable Bearing[ksf]
284	N284	0.178	60	0.535	3
285	N285	0.173	60	0.519	3
286	N286	0.169	60	0.506	3
287	N287	0.165	60	0.496	3
288	N288	0.166	46	0.497	3
289	N289	0.168	46	0.503	3
290	N290	0.17	46	0.511	3
291	N291	0.174	46	0.522	3
292	N292	0.178	46	0.535	3
293	N293	0.183	46	0.55	3
294	N294	0.189	46	0.568	3
295	N295	0.196	46	0.587	3
296	N296	0.203	46	0.609	3
297	N297	0.211	46	0.633	3
298	N298	0.22	46	0.659	3
299	N299	0.229	46	0.686	3
300	N300	0.239	46	0.716	3
301	N301	0.249	46	0.746	3
302	N302	0.259	46	0.777	3
303	N303	0.27	46	0.809	3
304	N304	0.28	46	0.841	3
305	N305	0.291	46	0.873	3
306	N306	0.301	46	0.904	3
307	N307	0.311	46	0.934	3
308	N308	0.32	46	0.961	3
309	N309	0.328	46	0.985	3
310	N310	0.335	46	1.005	3
311	N311	0.34	46	1.02	3
312	N312	0.342	46	1.026	3
313	N313	0.339	46	1.018	3
314	N314	0.335	62	1.005	3
315	N315	0.33	62	0.989	3
316	N316	0.323	62	0.969	3
317	N317	0.315	62	0.945	3
318	N318	0.306	62	0.919	3
319	N319	0.297	62	0.892	3
320	N320	0.288	62	0.863	3
321	N321	0.278	62	0.833	3
322	N322	0.268	62	0.804	3
323	N323	0.259	62	0.776	3
324	N324	0.249	62	0.748	3
325	N325	0.24	62	0.721	3
326	N326	0.232	62	0.696	3
327	N327	0.224	62	0.673	3
328	N328	0.217	62	0.652	3
329	N329	0.211	62	0.633	3
330	N330	0.205	62	0.616	3
331	N331	0.2	62	0.601	3
332	N332	0.196	62	0.589	3
333	N333	0.193	46	0.579	3
334	N334	0.191	46	0.574	3
335	N335	0.191	46	0.573	3

Envelope Soil Pressures (Continued)

	Label	Max UC	Max LC	Soil Pressure[ksf]	Allowable Bearing[ksf]
336	N336	0.191	46	0.573	3
337	N337	0.192	46	0.576	3
338	N338	0.194	46	0.582	3
339	N339	0.196	46	0.589	3
340	N340	0.2	46	0.599	3
341	N341	0.204	46	0.611	3
342	N342	0.208	46	0.625	3
343	N343	0.213	46	0.64	3
344	N344	0.219	46	0.656	3
345	N345	0.224	46	0.673	3
346	N346	0.23	46	0.691	3
347	N347	0.237	46	0.71	3
348	N348	0.243	46	0.728	3
349	N349	0.248	46	0.745	3
350	N350	0.254	46	0.762	3
351	N351	0.259	46	0.777	3
352	N352	0.263	46	0.789	3
353	N353	0.266	46	0.799	3
354	N354	0.266	46	0.797	3
355	N355	0.264	46	0.793	3
356	N356	0.262	46	0.786	3
357	N357	0.26	46	0.779	3
358	N358	0.257	46	0.771	3
359	N359	0.254	46	0.763	3
360	N360	0.251	46	0.754	3
361	N361	0.249	46	0.747	3
362	N362	0.246	46	0.739	3
363	N363	0.244	46	0.733	3
364	N364	0.243	46	0.728	3
365	N365	0.241	46	0.724	3
366	N366	0.24	46	0.72	3
367	N367	0.239	46	0.718	3
368	N368	0.239	46	0.717	3
369	N369	0.239	60	0.717	3
370	N370	0.24	60	0.72	3
371	N371	0.241	60	0.723	3
372	N372	0.242	60	0.726	3
373	N373	0.242	60	0.727	3
374	N374	0.242	60	0.727	3
375	N375	0.242	60	0.725	3
376	N376	0.237	60	0.712	3
377	N377	0.234	46	0.703	3
378	N378	0.232	46	0.697	3
379	N379	0.23	46	0.69	3
380	N380	0.228	46	0.685	3
381	N381	0.227	46	0.68	3
382	N382	0.226	46	0.677	3
383	N383	0.225	46	0.675	3
384	N384	0.225	46	0.676	3
385	N385	0.226	46	0.679	3
386	N386	0.228	46	0.684	3
387	N387	0.23	46	0.691	3

Envelope Soil Pressures (Continued)

	Label	Max UC	Max LC	Soil Pressure[ksf]	Allowable Bearing[ksf]
388	N388	0.234	46	0.702	3
389	N389	0.238	46	0.714	3
390	N390	0.243	46	0.73	3
391	N391	0.249	46	0.747	3
392	N392	0.256	46	0.767	3
393	N393	0.264	62	0.791	3
394	N394	0.275	62	0.826	3
395	N395	0.283	62	0.848	3
396	N396	0.278	62	0.834	3
397	N397	0.274	62	0.822	3
398	N398	0.27	62	0.811	3
399	N399	0.268	46	0.805	3
400	N400	0.268	46	0.805	3
401	N401	0.27	46	0.809	3
402	N402	0.272	46	0.815	3
403	N403	0.275	46	0.824	3
404	N404	0.279	46	0.836	3
405	N405	0.284	46	0.851	3
406	N406	0.29	46	0.869	3
407	N407	0.296	46	0.888	3
408	N408	0.303	46	0.91	3
409	N409	0.311	46	0.932	3
410	N410	0.319	46	0.956	3
411	N411	0.327	46	0.981	3
412	N412	0.335	46	1.004	3
413	N413	0.342	46	1.027	3
414	N414	0.355	46	1.065	3
415	N415	0.359	46	1.078	3
416	N416	0.364	46	1.091	3
417	N417	0.367	46	1.102	3
418	N418	0.371	46	1.113	3
419	N419	0.375	46	1.125	3
420	N420	0.379	46	1.137	3
421	N421	0.383	46	1.15	3
422	N422	0.388	46	1.165	3
423	N423	0.393	46	1.18	3
424	N424	0.399	46	1.196	3
425	N425	0.404	46	1.213	3
426	N426	0.41	46	1.23	3
427	N427	0.415	46	1.246	3
428	N428	0.42	46	1.26	3
429	N429	0.424	46	1.272	3
430	N430	0.427	46	1.281	3
431	N431	0.428	46	1.284	3
432	N432	0.423	46	1.268	3
433	N433	0.416	46	1.248	3
434	N434	0.408	46	1.223	3
435	N435	0.398	46	1.194	3
436	N436	0.388	46	1.164	3
437	N437	0.377	46	1.132	3
438	N438	0.367	46	1.1	3
439	N439	0.356	46	1.068	3

Envelope Soil Pressures (Continued)

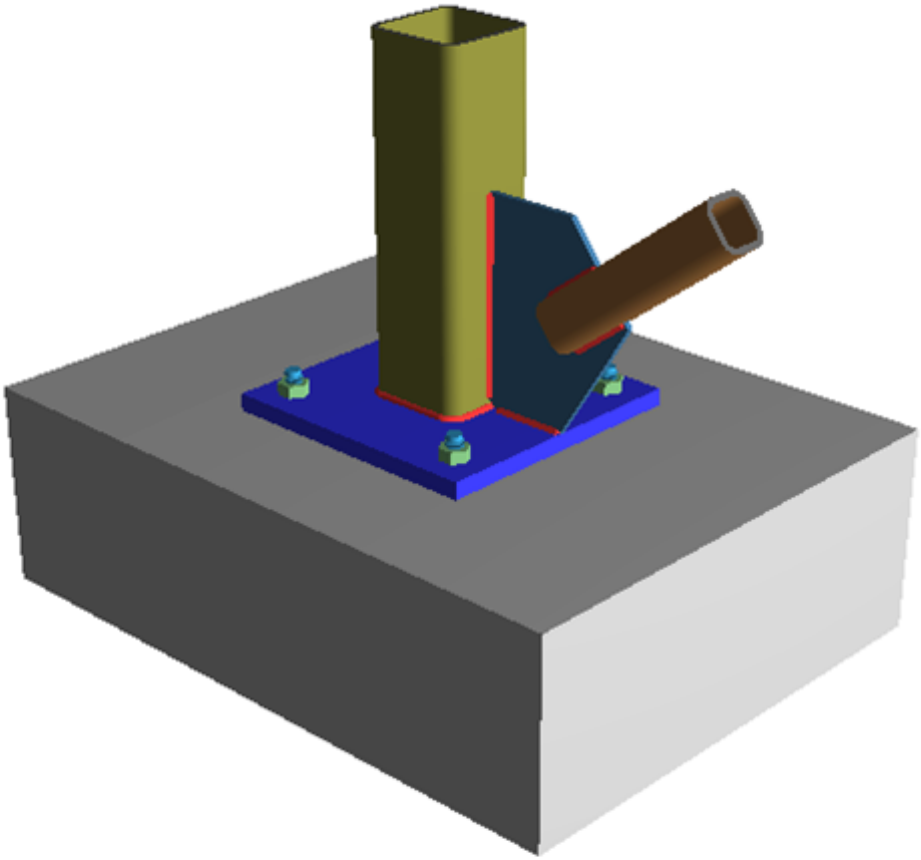
	Label	Max UC	Max LC	Soil Pressure[ksf]	Allowable Bearing[ksf]
440	N440	0.346	46	1.038	3
441	N441	0.337	46	1.01	3
442	N442	0.328	46	0.983	3
443	N443	0.32	46	0.96	3
444	N444	0.313	46	0.939	3
445	N445	0.307	46	0.921	3
446	N446	0.302	46	0.906	3
447	N447	0.298	46	0.894	3
448	N448	0.295	46	0.884	3
449	N449	0.292	46	0.877	3
450	N450	0.291	46	0.872	3
451	N451	0.29	46	0.869	3
452	N452	0.289	46	0.868	3
453	N453	0.289	46	0.867	3
454	N454	0.288	46	0.863	3
455	N455	0.287	46	0.86	3
456	N456	0.285	46	0.856	3
457	N457	0.285	46	0.854	3
458	N458	0.284	46	0.852	3
459	N459	0.284	46	0.851	3
460	N460	0.284	46	0.851	3
461	N461	0.284	46	0.852	3
462	N462	0.285	46	0.854	3
463	N463	0.286	46	0.857	3
464	N464	0.287	46	0.861	3
465	N465	0.288	46	0.865	3
466	N466	0.29	46	0.87	3
467	N467	0.291	46	0.874	3
468	N468	0.293	46	0.878	3
469	N469	0.294	46	0.881	3
470	N470	0.294	46	0.881	3
471	N471	0.291	46	0.872	3
472	N472	0.287	46	0.862	3
473	N473	0.283	46	0.85	3
474	N474	0.279	46	0.837	3
475	N475	0.274	46	0.822	3
476	N476	0.269	46	0.808	3
477	N477	0.264	46	0.793	3
478	N478	0.26	46	0.779	3
479	N479	0.255	46	0.765	3
480	N480	0.251	46	0.752	3
481	N481	0.247	46	0.74	3
482	N482	0.243	46	0.729	3
483	N483	0.24	46	0.719	3
484	N484	0.236	46	0.709	3
485	N485	0.233	46	0.7	3
486	N486	0.217	46	0.652	3
487	N487	0.203	46	0.609	3
488	N488	0.188	46	0.565	3
489	N489	0.173	46	0.519	3
490	N490	0.158	46	0.473	3
491	N491	0.142	46	0.426	3

Global Parameters - Description:

Project Title	LeesSummit
Company	Olsson
Designer	CWS
Job Number	
Notes	

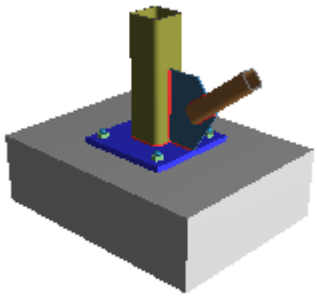
Global Parameters - Solution:

Design Method	AISC 15th (360-16): LRFD
Bolt Group Analysis Method	Center of Rotation
Weld Analysis Method	Elastic
Consider Bolt Hole Deformation?	Yes
Check Rotational Ductility?	Yes
Check Weld Filler Metal Matching?	Yes
Full Shear Eccentricity Considered?	No
Panel-Zone Shear Deformation Considered?	No
Check Weld Base Material Thickness?	Yes
Reduce Available Bolt Strength by Prying Effects Factor Q?	No



M12 J: Summary Report

Brace to Column Base Plate Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x16.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Brace	HSS3X3X6	A500 Gr.C RECT	F_y = 50.00 ksi	F_u = 62.00 ksi
Gusset	P0.38x9.30x11.98	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Brace Axial	-8.82 kips	*Brace Axial (tension)*
Column Axial	26.32 kips	*Axial load on the column*
Column Strong Axis Shear	-0.00 kips	*Shear load on the column that causes strong axis bending*
Column Weak Axis Shear	0.00 kips	*Shear load on the column that causes weak axis bending*
Column Strong Axis Moment	0.00 kips-ft	*Column moment about the strong axis*
Column Weak Axis Moment	-0.00 kips-ft	*Column moment about the weak axis*

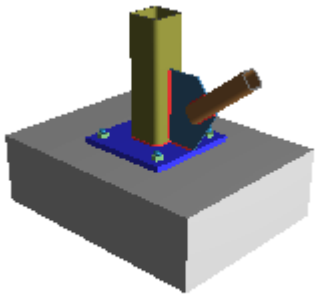
Governing LC: 3D - 15 - IBC 16-4 (a) (c)

Note: Unless specified, all code references are from AISC 360-16

Connection	Required	Max Unity Check	Result
Column/Base Plate connection	Lateral Slip	**0.81**	**PASS**
Gusset/Column connection	Column Weld Strength	**0.06**	**PASS**
Gusset/Brace connection	Gusset Plate Tensile Yield (Whitmore)	**0.13**	**PASS**

M12 J: Base Plate Report

Brace to Column Base Plate Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x16.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Brace	HSS3X3X6	A500 Gr.C RECT	F_y = 50.00 ksi	F_u = 62.00 ksi
Gusset	P0.38x9.30x11.98	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Design Axial	20.95 kips	*Axial load on the column*
Design Strong Axis Shear	7.00 kips	*Shear load on the column that causes strong axis bending*
Design Weak Axis Shear	0.00 kips	*Shear load on the column that causes weak axis bending*
Design Strong Axis Moment	0.00 kips-ft	*Column moment about the strong axis*
Design Weak Axis Moment	-0.00 kips-ft	*Column moment about the weak axis*

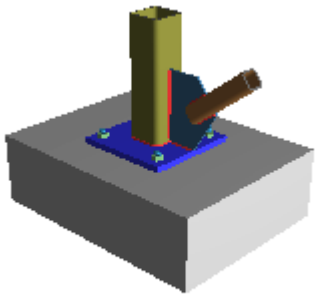
Governing LC: 3D - 15 - IBC 16-4 (a) (c)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions				**PASS**
Loading at Base Plate				**n/a**
Load Distribution (Strong Axis)				**n/a**
Load Distribution (Weak Axis)				**n/a**
Gusset Shear Yield	4.43 kips	36.45 kips	**0.12**	**PASS**
Gusset Shear Rupture	4.43 kips	44.04 kips	**0.10**	**PASS**
Concrete Bearing			**0.02**	**PASS**
Lateral Slip			**0.81**	**PASS**
Plate Flexural Yielding(Compression)(Strong Axis)	0.09 kips-ft/in	0.67 kips-ft/in	**0.13**	**PASS**
Plate Flexural Yielding(Compression)(Weak Axis)	0.09 kips-ft/in	0.67 kips-ft/in	**0.13**	**PASS**
Column Weld Limitations				**PASS**
Weld Limitations at Gusset				**PASS**
Column Flange Weld Strength	0.00 kips/ft	66.82 kips/ft	**0.00**	**PASS**
Column Web Weld Strength	3.36 kips/ft	66.82 kips/ft	**0.05**	**PASS**
Gusset Weld Strength	4.43 kips	50.11 kips	**0.09**	**PASS**

M12 J: Gusset/Column Report

Brace to Column Base Plate Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x16.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Brace	HSS3X3X6	A500 Gr.C RECT	F_y = 50.00 ksi	F_u = 62.00 ksi
Gusset	P0.38x9.30x11.98	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-5.36 kips	*Calculated Shear Load*
Axial Load	-2.58 kips	*Calculated Axial Load (tension)*
Moment Load	-0.00 kips-ft	*Calculated Moment*

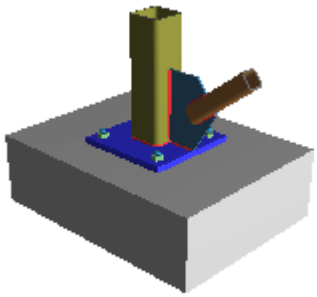
Governing LC: 3D - 15 - IBC 16-4 (a) (c)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
HSS Limitations				**PASS**
Column Weld Limitations				**PASS**
Loading at Gusset to Column				**n/a**
Gusset Shear Yield	5.36 kips	93.02 kips	**0.06**	**PASS**
Gusset Shear Rupture	5.36 kips	112.39 kips	**0.05**	**PASS**
Gusset Axial Yield	2.58 kips	139.52 kips	**0.02**	**PASS**
Gusset Tensile Rupture	2.58 kips	187.32 kips	**0.01**	**PASS**
Gusset Flexural Yield			**0.00**	**PASS**
Gusset Flexural Rupture			**0.00**	**PASS**
Column Weld Strength	5.95 kips	102.30 kips	**0.06**	**PASS**
Column Web Bending	1.34 kips-ft	33.39 kips-ft	**0.04**	**PASS**
HSS Punching Shear	1.34 kips-ft	36.34 kips-ft	**0.04**	**PASS**
HSS Column Transverse Plastification	2.58 kips	52.64 kips	**0.05**	**PASS**

M12 J: Gusset/Brace Report

Brace to Column Base Plate Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x16.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Brace	HSS3X3X6	A500 Gr.C RECT	F_y = 50.00 ksi	F_u = 62.00 ksi
Gusset	P0.38x9.30x11.98	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Brace Axial	-8.82 kips	*Brace Axial (tension)*

Governing LC: 3D - 15 - IBC 16-4 (a) (c)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Brace Weld Limitations				**PASS**
Gusset Plate Tensile Yield (Whitmore)	8.82 kips	68.12 kips	**0.13**	**PASS**
Gusset Plate Tensile Rupture (Whitmore)	8.82 kips	91.46 kips	**0.10**	**PASS**
Brace Tensile Yield	8.82 kips	152.55 kips	**0.06**	**PASS**
Brace Tensile Rupture	8.82 kips	101.64 kips	**0.09**	**PASS**
Brace Weld Strength	8.82 kips	89.09 kips	**0.10**	**PASS**

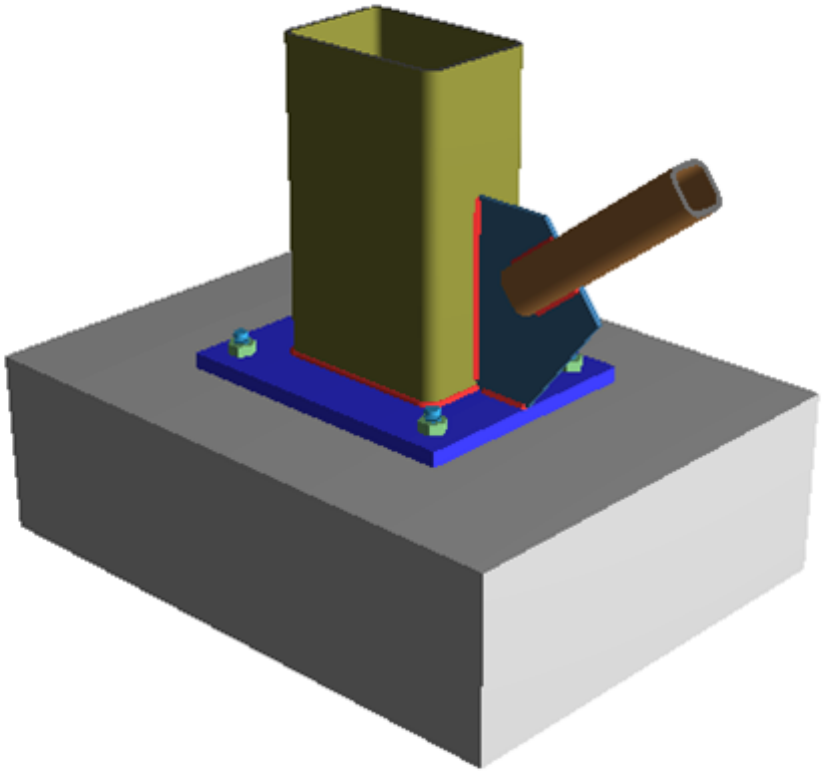
M12 J: Connection Properties Report

Connection	
Connection Title	M12 J
Connection Type	Brace to Column Base Plate Connection
Connection Category	
Gusset to Column Orientation	Strong Axis
Brace Location	Front
Bolt Layout	Four
Plate Washers	No
Loading (LRFD)	
Custom?	No
Brace Axial	-8.819 kips
Column Axial	26.316 kips
Column Strong Axis Shear	-0.001 kips
Column Weak Axis Shear	0.000 kips
Column Strong Axis Moment	0.001 kips-ft
Column Weak Axis Moment	-0.004 kips-ft
Qf	1.000 Coeff
Components	
Brace Section	HSS3X3X6
Material	A500 Gr.C RECT
Member Orientation	Long Side Vertical
Column Section	HSS6X6X6
Material	A500 Gr.B RECT
Gusset	P0.38x9.30x11.98
Material	A36
Tapered ?	Cut Back
Thickness	0.375 in
Width	9.296 in
Length	11.983 in
Cut Width	4.296 in
Cut Length	0.000 in
Gusset to Base Plate Length	5.000 in
Base Plate	P1.00x16.00x16.00
Material	A36
Length	16.000 in
Width	16.000 in
Thickness	1.000 in
Static Friction Coefficient	0.550 Coeff
Hole Type	OVS
Concrete Support	C40.00x30.00x12.00
Length	40.000 in
Width	30.000 in
Thickness	
Compressive Strength (f'c)	4.000 ksi
Anchor Bolts	1" F1554 Gr.36-N
Material	F1554 Gr.36-N
Diameter, in.	1"
Bolt Spacing y	12.000 in
Bolt Spacing z	12.000 in
Column Weld	E70
Type	Fillet
Fillet Size	4.000 Sixteenths
Brace-Gusset Connection	

continued on next page...

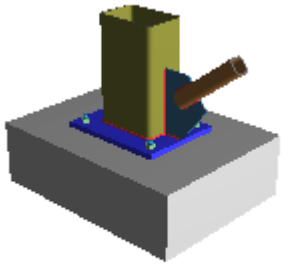
M12 J: Connection Properties Report (continued):

Connection Type	Slotted Around Gusset
Brace Gusset Weld	E70
Type	Fillet
Fillet Size	4.000 Sixteenths
Gusset-Column Connection	
Type	Direct Weld
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Gusset-Base Plate Connection	
Type	Direct Weld
Gusset Baseplate Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Assembly	
Auto-Update Connection	No
WorkPoint Location	Concentric
Brace Clearance	4.028 in
Brace WorkPoint Distance	10.000 in
Brace/Gusset Overlap	4.000 in
Gusset Clip	
Horizontal Clip	3.839 in
Vertical Clip	5.014 in
Brace/Clip Edge Dist	2.874 in
Gusset to Column Clip	
Vertical Clip	0.500 in
Horizontal Clip	0.500 in
Brace Angle from Vertical	52.561
Edge Distance y	2.000 in
Edge Distance z	2.000 in



M13 J: Summary Report

Brace to Column Base Plate Connection



Material Properties:				
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x16.00x20.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Brace	HSS3X3X6	A500 Gr.C RECT	F_y = 50.00 ksi	F_u = 62.00 ksi
Gusset	P0.38x9.06x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Brace Axial	-6.91 kips	*Brace Axial (tension)*
Column Axial	27.03 kips	*Axial load on the column*
Column Strong Axis Shear	-1.02 kips	*Shear load on the column that causes strong axis bending*
Column Weak Axis Shear	-0.15 kips	*Shear load on the column that causes weak axis bending*
Column Strong Axis Moment	-0.00 kips-ft	*Column moment about the strong axis*
Column Weak Axis Moment	0.00 kips-ft	*Column moment about the weak axis*

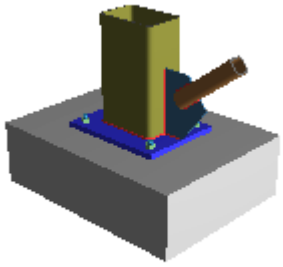
Governing LC: 3D - 13 - IBC 16-4 (a) (a)

Note: Unless specified, all code references are from AISC 360-16

Connection	Required	Max Unity Check	Result
Column/Base Plate connection	Lateral Slip	**0.47**	**PASS**
Gusset/Column connection	HSS Column Transverse Plastification	**0.09**	**PASS**
Gusset/Brace connection	Brace Weld Strength	**0.08**	**PASS**

M13 J: Base Plate Report

Brace to Column Base Plate Connection



Material Properties:				
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x16.00x20.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Brace	HSS3X3X6	A500 Gr.C RECT	F_y = 50.00 ksi	F_u = 62.00 ksi
Gusset	P0.38x9.06x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Design Axial	22.83 kips	*Axial load on the column*
Design Strong Axis Shear	4.47 kips	*Shear load on the column that causes strong axis bending*
Design Weak Axis Shear	-0.15 kips	*Shear load on the column that causes weak axis bending*
Design Strong Axis Moment	-0.00 kips-ft	*Column moment about the strong axis*
Design Weak Axis Moment	0.00 kips-ft	*Column moment about the weak axis*

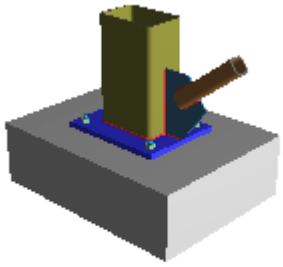
Governing LC: 3D - 13 - IBC 16-4 (a) (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions				**PASS**
Loading at Base Plate				**n/a**
Load Distribution (Strong Axis)				**n/a**
Load Distribution (Weak Axis)				**n/a**
Gusset Shear Yield	1.45 kips	28.35 kips	**0.05**	**PASS**
Gusset Shear Rupture	1.45 kips	34.26 kips	**0.04**	**PASS**
Concrete Bearing			**0.02**	**PASS**
Lateral Slip			**0.47**	**PASS**
Plate Flexural Yielding(Compression)(Strong Axis)	0.05 kips-ft/in	0.67 kips-ft/in	**0.08**	**PASS**
Plate Flexural Yielding(Compression)(Weak Axis)	0.05 kips-ft/in	0.67 kips-ft/in	**0.08**	**PASS**
Column Weld Limitations				**PASS**
Weld Limitations at Gusset				**PASS**
Column Flange Weld Strength	0.14 kips/ft	66.82 kips/ft	**0.00**	**PASS**
Column Web Weld Strength	1.71 kips/ft	66.82 kips/ft	**0.03**	**PASS**
Gusset Weld Strength	1.45 kips	38.98 kips	**0.04**	**PASS**

M13 J: Gusset/Column Report

Brace to Column Base Plate Connection



Material Properties:				
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x16.00x20.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Brace	HSS3X3X6	A500 Gr.C RECT	F_y = 50.00 ksi	F_u = 62.00 ksi
Gusset	P0.38x9.06x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-4.20 kips	*Calculated Shear Load*
Axial Load	-4.03 kips	*Calculated Axial Load (tension)*
Moment Load	-0.00 kips-ft	*Calculated Moment*

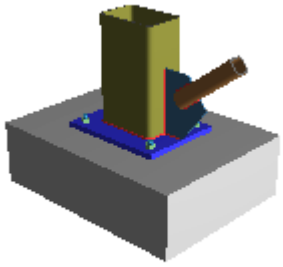
Governing LC: 3D - 13 - IBC 16-4 (a) (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
HSS Limitations				**PASS**
Column Weld Limitations				**PASS**
Loading at Gusset to Column				**n/a**
Gusset Shear Yield	4.20 kips	93.15 kips	**0.05**	**PASS**
Gusset Shear Rupture	4.20 kips	112.56 kips	**0.04**	**PASS**
Gusset Axial Yield	4.03 kips	139.72 kips	**0.03**	**PASS**
Gusset Tensile Rupture	4.03 kips	187.59 kips	**0.02**	**PASS**
Gusset Flexural Yield			**0.00**	**PASS**
Gusset Flexural Rupture			**0.00**	**PASS**
Column Weld Strength	5.82 kips	102.45 kips	**0.06**	**PASS**
Column Web Bending	2.10 kips-ft	27.43 kips-ft	**0.08**	**PASS**
HSS Punching Shear	2.10 kips-ft	36.44 kips-ft	**0.06**	**PASS**
HSS Column Transverse Plastification	4.03 kips	43.48 kips	**0.09**	**PASS**

M13 J: Gusset/Brace Report

Brace to Column Base Plate Connection



Material Properties:				
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x16.00x20.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Brace	HSS3X3X6	A500 Gr.C RECT	F_y = 50.00 ksi	F_u = 62.00 ksi
Gusset	P0.38x9.06x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Brace Axial	-6.91 kips	*Brace Axial (tension)*

Governing LC: 3D - 13 - IBC 16-4 (a) (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Brace Weld Limitations				**PASS**
Gusset Plate Tensile Yield (Whitmore)	6.91 kips	92.57 kips	**0.07**	**PASS**
Gusset Plate Tensile Rupture (Whitmore)	6.91 kips	124.28 kips	**0.06**	**PASS**
Brace Tensile Yield	6.91 kips	152.55 kips	**0.05**	**PASS**
Brace Tensile Rupture	6.91 kips	101.64 kips	**0.07**	**PASS**
Brace Weld Strength	6.91 kips	89.09 kips	**0.08**	**PASS**

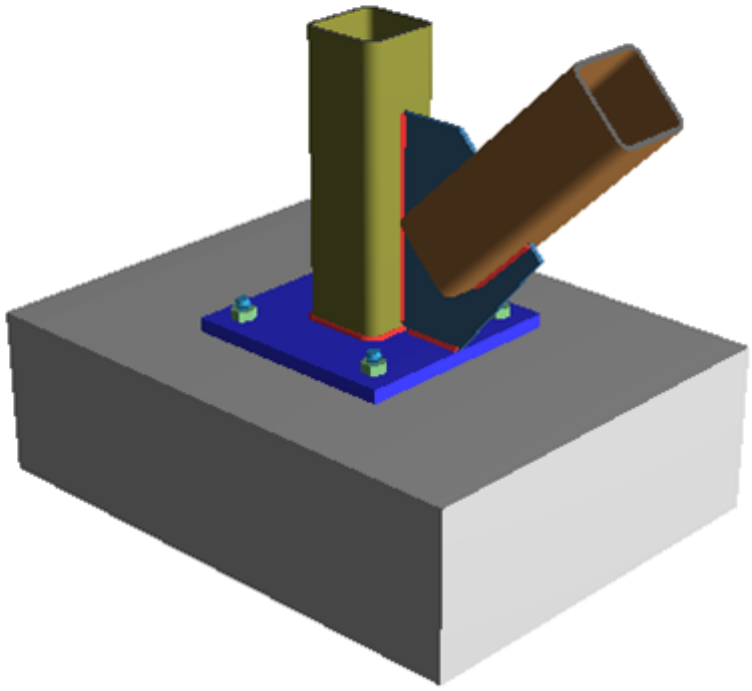
M13 J: Connection Properties Report

Connection	
Connection Title	M13 J
Connection Type	Brace to Column Base Plate Connection
Connection Category	
Gusset to Column Orientation	Strong Axis
Brace Location	Front
Bolt Layout	Four
Plate Washers	No
Loading (LRFD)	
Custom?	No
Brace Axial	-6.910 kips
Column Axial	27.034 kips
Column Strong Axis Shear	-1.017 kips
Column Weak Axis Shear	-0.151 kips
Column Strong Axis Moment	0.000 kips-ft
Column Weak Axis Moment	0.003 kips-ft
Qf	1.000 Coeff
Components	
Brace Section	HSS3X3X6
Material	A500 Gr.C RECT
Member Orientation	Long Side Vertical
Column Section	HSS12X8X6
Material	A500 Gr.B RECT
Gusset	P0.38x9.06x12.00
Material	A36
Tapered ?	Cut Back
Thickness	0.375 in
Width	9.060 in
Length	12.000 in
Cut Width	5.060 in
Cut Length	0.000 in
Gusset to Base Plate Length	4.000 in
Base Plate	P1.00x16.00x20.00
Material	A36
Length	20.000 in
Width	16.000 in
Thickness	1.000 in
Static Friction Coefficient	0.550 Coeff
Hole Type	OVS
Concrete Support	C40.00x30.00x12.00
Length	40.000 in
Width	30.000 in
Thickness	
Compressive Strength (f'c)	4.000 ksi
Anchor Bolts	1" F1554 Gr.36-N
Material	F1554 Gr.36-N
Diameter, in.	1"
Bolt Spacing y	16.000 in
Bolt Spacing z	12.000 in
Column Weld	E70
Type	Fillet
Fillet Size	4.000 Sixteenths
Brace-Gusset Connection	

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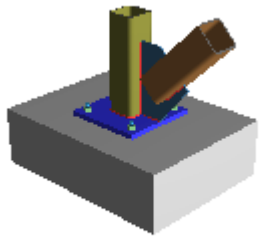
M13 J: Connection Properties Report (continued):

Connection Type	Slotted Around Gusset
Brace Gusset Weld	E70
Type	Fillet
Fillet Size	4.000 Sixteenths
Gusset-Column Connection	
Type	Direct Weld
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Gusset-Base Plate Connection	
Type	Direct Weld
Gusset Baseplate Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Assembly	
Auto-Update Connection	No
WorkPoint Location	Concentric
Brace Clearance	2.616 in
Brace WorkPoint Distance	12.000 in
Brace/Gusset Overlap	4.000 in
Gusset Clip	
Horizontal Clip	4.097 in
Vertical Clip	5.350 in
Brace/Clip Edge Dist	1.363 in
Gusset to Column Clip	
Vertical Clip	0.500 in
Horizontal Clip	0.500 in
Brace Angle from Vertical	52.561
Edge Distance y	2.000 in
Edge Distance z	2.000 in



M16 I: Summary Report

Brace to Column Base Plate Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x16.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Brace	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Gusset	P0.38x11.49x15.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Brace Axial	-9.79 kips	*Brace Axial (tension)*
Column Axial	24.16 kips	*Axial load on the column*
Column Strong Axis Shear	0.00 kips	*Shear load on the column that causes strong axis bending*
Column Weak Axis Shear	0.00 kips	*Shear load on the column that causes weak axis bending*
Column Strong Axis Moment	0.00 kips-ft	*Column moment about the strong axis*
Column Weak Axis Moment	0.00 kips-ft	*Column moment about the weak axis*

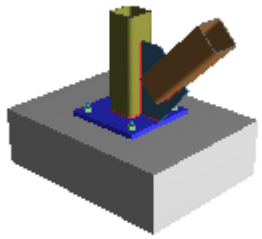
Governing LC: 3D - 9 - IBC 16-3 (d) (a)

Note: Unless specified, all code references are from AISC 360-16

Connection	Required	Max Unity Check	Result
Column/Base Plate connection	Lateral Slip	**0.98**	**PASS**
Gusset/Column connection	Gusset Shear Yield	**0.06**	**PASS**
Gusset/Brace connection	Gusset Plate Tensile Yield (Whitmore)	**0.09**	**PASS**

M16 I: Base Plate Report

Brace to Column Base Plate Connection



Material Properties:

Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x16.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Brace	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Gusset	P0.38x11.49x15.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:

Design Axial	17.33 kips	*Axial load on the column*
Design Strong Axis Shear	7.01 kips	*Shear load on the column that causes strong axis bending*
Design Weak Axis Shear	0.00 kips	*Shear load on the column that causes weak axis bending*
Design Strong Axis Moment	0.00 kips-ft	*Column moment about the strong axis*
Design Weak Axis Moment	0.00 kips-ft	*Column moment about the weak axis*

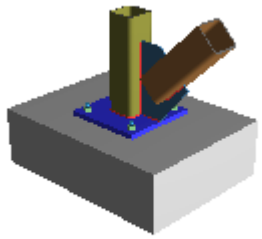
Governing LC: 3D - 9 - IBC 16-3 (d) (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions				**PASS**
Loading at Base Plate				**n/a**
Load Distribution (Strong Axis)				**n/a**
Load Distribution (Weak Axis)				**n/a**
Gusset Shear Yield	4.37 kips	36.45 kips	**0.12**	**PASS**
Gusset Shear Rupture	4.37 kips	44.04 kips	**0.10**	**PASS**
Concrete Bearing			**0.02**	**PASS**
Lateral Slip			**0.98**	**PASS**
Plate Flexural Yielding(Compression)(Strong Axis)	0.07 kips-ft/in	0.67 kips-ft/in	**0.11**	**PASS**
Plate Flexural Yielding(Compression)(Weak Axis)	0.07 kips-ft/in	0.67 kips-ft/in	**0.11**	**PASS**
Column Weld Limitations				**PASS**
Weld Limitations at Gusset				**PASS**
Column Flange Weld Strength	0.00 kips/ft	66.82 kips/ft	**0.00**	**PASS**
Column Web Weld Strength	3.45 kips/ft	66.82 kips/ft	**0.05**	**PASS**
Gusset Weld Strength	4.37 kips	50.11 kips	**0.09**	**PASS**

M16 I: Gusset/Column Report

Brace to Column Base Plate Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x16.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Brace	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Gusset	P0.38x11.49x15.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-6.83 kips	*Calculated Shear Load*
Axial Load	-2.65 kips	*Calculated Axial Load (tension)*
Moment Load	-0.00 kips-ft	*Calculated Moment*

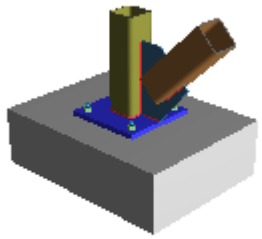
Governing LC: 3D - 9 - IBC 16-3 (d) (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
HSS Limitations				**PASS**
Column Weld Limitations				**PASS**
Loading at Gusset to Column				**n/a**
Gusset Shear Yield	6.83 kips	117.45 kips	**0.06**	**PASS**
Gusset Shear Rupture	6.83 kips	141.92 kips	**0.05**	**PASS**
Gusset Axial Yield	2.65 kips	176.17 kips	**0.02**	**PASS**
Gusset Tensile Rupture	2.65 kips	236.53 kips	**0.01**	**PASS**
Gusset Flexural Yield			**0.00**	**PASS**
Gusset Flexural Rupture			**0.00**	**PASS**
Column Weld Strength	7.33 kips	129.18 kips	**0.06**	**PASS**
Column Web Bending	1.71 kips-ft	48.83 kips-ft	**0.03**	**PASS**
HSS Punching Shear	1.71 kips-ft	56.93 kips-ft	**0.03**	**PASS**
HSS Column Transverse Plastification	2.65 kips	60.03 kips	**0.04**	**PASS**

M16 I: Gusset/Brace Report

Brace to Column Base Plate Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x16.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Brace	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Gusset	P0.38x11.49x15.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Brace Axial	-9.79 kips	*Brace Axial (tension)*

Governing LC: 3D - 9 - IBC 16-3 (d) (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Brace Weld Limitations				**PASS**
Gusset Plate Tensile Yield (Whitmore)	9.79 kips	114.30 kips	**0.09**	**PASS**
Gusset Plate Tensile Rupture (Whitmore)	9.79 kips	153.46 kips	**0.06**	**PASS**
Brace Tensile Yield	9.79 kips	313.81 kips	**0.03**	**PASS**
Brace Tensile Rupture	9.79 kips	153.57 kips	**0.06**	**PASS**
Brace Weld Strength	9.79 kips	133.63 kips	**0.07**	**PASS**

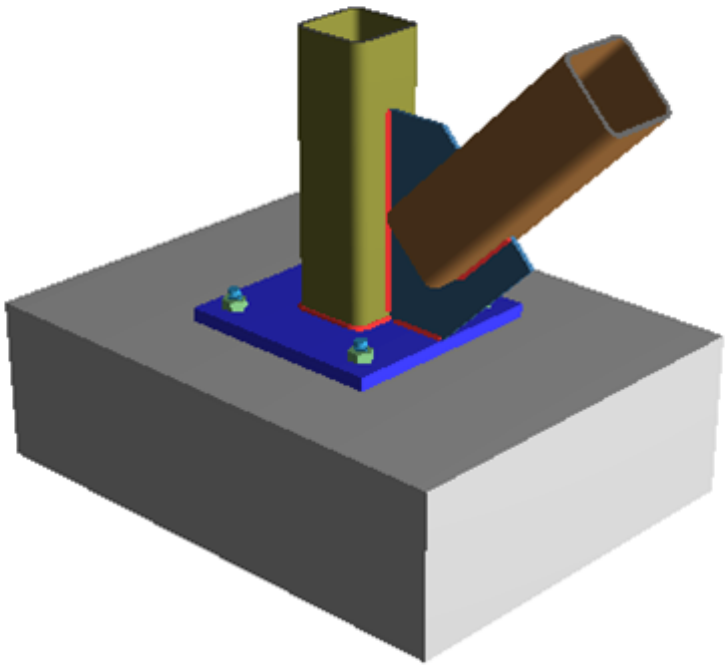
M16 I: Connection Properties Report

Connection	
Connection Title	M16 I
Connection Type	Brace to Column Base Plate Connection
Connection Category	
Gusset to Column Orientation	Strong Axis
Brace Location	Front
Bolt Layout	Four
Plate Washers	No
Loading (LRFD)	
Custom?	No
Brace Axial	-9.793 kips
Column Axial	24.164 kips
Column Strong Axis Shear	0.000 kips
Column Weak Axis Shear	0.000 kips
Column Strong Axis Moment	0.000 kips-ft
Column Weak Axis Moment	0.000 kips-ft
Qf	1.000 Coeff
Components	
Brace Section	HSS6X6X6
Material	A500 Gr.B RECT
Member Orientation	Long Side Vertical
Column Section	HSS6X6X6
Material	A500 Gr.B RECT
Gusset	P0.38x11.49x15.00
Material	A36
Tapered ?	Cut Back
Thickness	0.375 in
Width	11.494 in
Length	15.000 in
Cut Width	6.494 in
Cut Length	0.000 in
Gusset to Base Plate Length	5.000 in
Base Plate	P1.00x16.00x16.00
Material	A36
Length	16.000 in
Width	16.000 in
Thickness	1.000 in
Static Friction Coefficient	0.550 Coeff
Hole Type	OVS
Concrete Support	C40.00x30.00x12.00
Length	40.000 in
Width	30.000 in
Thickness	
Compressive Strength (f'c)	4.000 ksi
Anchor Bolts	1" F1554 Gr.36-N
Material	F1554 Gr.36-N
Diameter, in.	1"
Bolt Spacing y	12.000 in
Bolt Spacing z	12.000 in
Column Weld	E70
Type	Fillet
Fillet Size	4.000 Sixteenths
Brace-Gusset Connection	

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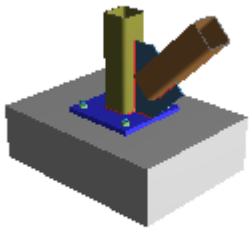
M16 I: Connection Properties Report (continued):

Connection Type	Slotted Around Gusset
Brace Gusset Weld	E70
Type	Fillet
Fillet Size	4.000 Sixteenths
Gusset-Column Connection	
Type	Direct Weld
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Gusset-Base Plate Connection	
Type	Direct Weld
Gusset Baseplate Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Assembly	
Auto-Update Connection	No
WorkPoint Location	Concentric
Brace Clearance	2.068 in
Brace WorkPoint Distance	10.000 in
Brace/Gusset Overlap	6.000 in
Gusset Clip	
Horizontal Clip	6.771 in
Vertical Clip	6.949 in
Brace/Clip Edge Dist	2.353 in
Gusset to Column Clip	
Vertical Clip	0.500 in
Horizontal Clip	0.500 in
Brace Angle from Vertical	45.742
Edge Distance y	2.000 in
Edge Distance z	2.000 in



M17 J: Summary Report

Brace to Column Base Plate Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x16.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Brace	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Gusset	P0.38x12.35x15.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Brace Axial	4.04 kips	*Brace Axial (compression)*
Column Axial	5.24 kips	*Axial load on the column*
Column Strong Axis Shear	0.00 kips	*Shear load on the column that causes strong axis bending*
Column Weak Axis Shear	0.00 kips	*Shear load on the column that causes weak axis bending*
Column Strong Axis Moment	0.00 kips-ft	*Column moment about the strong axis*
Column Weak Axis Moment	-0.00 kips-ft	*Column moment about the weak axis*

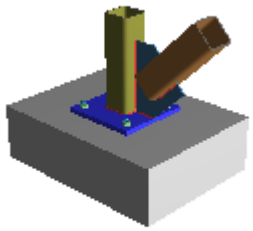
Governing LC: 3D - 22 - IBC 16-6 (b)

Note: Unless specified, all code references are from AISC 360-16

Connection	Required	Max Unity Check	Result
Column/Base Plate connection	Lateral Slip	**0.87**	**PASS**
Gusset/Column connection	Gusset Shear Yield	**0.02**	**PASS**
Gusset/Brace connection	Gusset Plate Compression (Whitmore)	**0.04**	**PASS**

M17 J: Base Plate Report

Brace to Column Base Plate Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x16.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Brace	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Gusset	P0.38x12.35x15.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Design Axial	8.06 kips	*Axial load on the column*
Design Strong Axis Shear	-2.90 kips	*Shear load on the column that causes strong axis bending*
Design Weak Axis Shear	0.00 kips	*Shear load on the column that causes weak axis bending*
Design Strong Axis Moment	0.00 kips-ft	*Column moment about the strong axis*
Design Weak Axis Moment	-0.00 kips-ft	*Column moment about the weak axis*

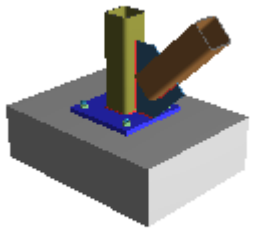
Governing LC: 3D - 22 - IBC 16-6 (b)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions				**PASS**
Loading at Base Plate				**n/a**
Load Distribution (Strong Axis)				**n/a**
Load Distribution (Weak Axis)				**n/a**
Gusset Shear Yield	1.80 kips	36.45 kips	**0.05**	**PASS**
Gusset Shear Rupture	1.80 kips	44.04 kips	**0.04**	**PASS**
Concrete Bearing			**0.01**	**PASS**
Lateral Slip			**0.87**	**PASS**
Plate Flexural Yielding(Compression)(Strong Axis)	0.03 kips-ft/in	0.67 kips-ft/in	**0.05**	**PASS**
Plate Flexural Yielding(Compression)(Weak Axis)	0.03 kips-ft/in	0.67 kips-ft/in	**0.05**	**PASS**
Column Weld Limitations				**PASS**
Weld Limitations at Gusset				**PASS**
Column Flange Weld Strength	0.00 kips/ft	66.82 kips/ft	**0.00**	**PASS**
Column Web Weld Strength	1.42 kips/ft	66.82 kips/ft	**0.02**	**PASS**
Gusset Weld Strength	1.80 kips	50.11 kips	**0.04**	**PASS**

M17 J: Gusset/Column Report

Brace to Column Base Plate Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x16.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Brace	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Gusset	P0.38x12.35x15.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	2.82 kips	*Calculated Shear Load*
Axial Load	1.09 kips	*Calculated Axial Load (compression)*
Moment Load	0.00 kips-ft	*Calculated Moment*

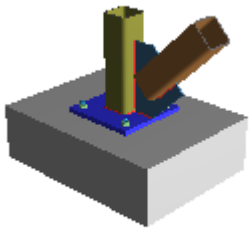
Governing LC: 3D - 22 - IBC 16-6 (b)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
HSS Limitations				**PASS**
Column Weld Limitations				**PASS**
Loading at Gusset to Column				**n/a**
Gusset Shear Yield	2.82 kips	117.45 kips	**0.02**	**PASS**
Gusset Shear Rupture	2.82 kips	141.92 kips	**0.02**	**PASS**
Gusset Axial Yield	1.09 kips	176.17 kips	**0.01**	**PASS**
Gusset Flexural Yield			**0.00**	**PASS**
Gusset Flexural Rupture			**0.00**	**PASS**
Column Weld Strength	2.82 kips	129.18 kips	**0.02**	**PASS**
Column Web Bending	0.71 kips-ft	48.83 kips-ft	**0.01**	**PASS**
HSS Punching Shear	0.71 kips-ft	56.93 kips-ft	**0.01**	**PASS**
HSS Column Transverse Plastification	1.09 kips	60.03 kips	**0.02**	**PASS**

M17 J: Gusset/Brace Report

Brace to Column Base Plate Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x16.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Brace	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Gusset	P0.38x12.35x15.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Brace Axial	4.04 kips	*Brace Axial (compression)*

Governing LC: 3D - 22 - IBC 16-6 (b)

Note: Unless specified, all code references are from AISC 360-16

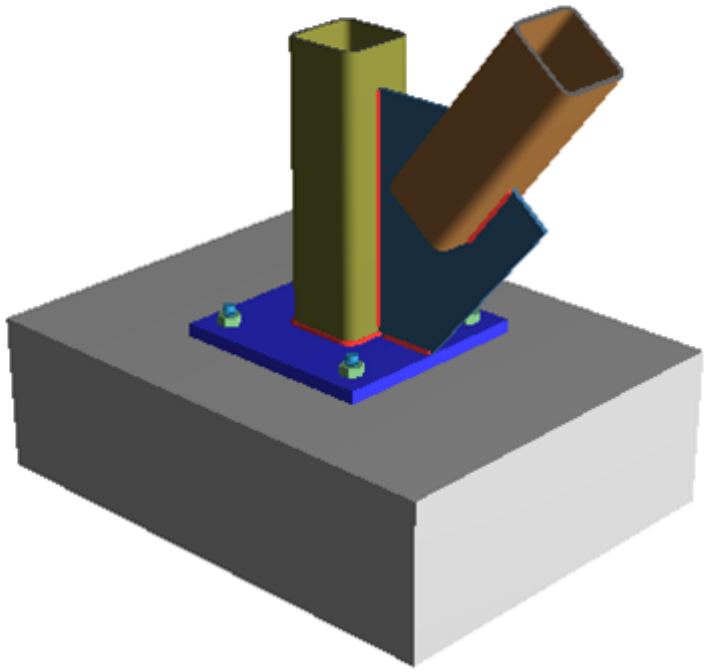
Limit State	Required	Available	Unity Check	Result
Brace Weld Limitations				**PASS**
Gusset Plate Compression (Whitmore)	4.04 kips	108.99 kips	**0.04**	**PASS**
Brace Weld Strength	4.04 kips	133.63 kips	**0.03**	**PASS**

Connection	
Connection Title	M17 J
Connection Type	Brace to Column Base Plate Connection
Connection Category	
Gusset to Column Orientation	Strong Axis
Brace Location	Front
Bolt Layout	Four
Plate Washers	No
Loading (LRFD)	
Custom?	No
Brace Axial	4.044 kips
Column Axial	5.238 kips
Column Strong Axis Shear	0.000 kips
Column Weak Axis Shear	0.000 kips
Column Strong Axis Moment	0.000 kips-ft
Column Weak Axis Moment	0.000 kips-ft
Qf	1.000 Coeff
Components	
Brace Section	HSS6X6X6
Material	A500 Gr.B RECT
Member Orientation	Long Side Vertical
Column Section	HSS6X6X6
Material	A500 Gr.B RECT
Gusset	P0.38x12.35x15.00
Material	A36
Tapered ?	Cut Back
Thickness	0.375 in
Width	12.348 in
Length	15.000 in
Cut Width	7.348 in
Cut Length	0.000 in
Gusset to Base Plate Length	5.000 in
Base Plate	P1.00x16.00x16.00
Material	A36
Length	16.000 in
Width	16.000 in
Thickness	1.000 in
Static Friction Coefficient	0.550 Coeff
Hole Type	OVS
Concrete Support	C40.00x30.00x12.00
Length	40.000 in
Width	30.000 in
Thickness	
Compressive Strength (f'c)	4.000 ksi
Anchor Bolts	1" F1554 Gr.36-N
Material	F1554 Gr.36-N
Diameter, in.	1"
Bolt Spacing y	12.000 in
Bolt Spacing z	12.000 in
Column Weld	E70
Type	Fillet
Fillet Size	4.000 Sixteenths
Brace-Gusset Connection	

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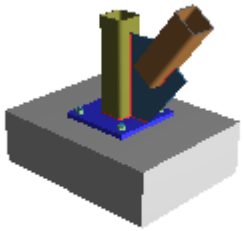
M17 J: Connection Properties Report (continued):

Connection Type	Slotted Around Gusset
Brace Gusset Weld	E70
Type	Fillet
Fillet Size	4.000 Sixteenths
Gusset-Column Connection	
Type	Direct Weld
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Gusset-Base Plate Connection	
Type	Direct Weld
Gusset Baseplate Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Assembly	
Auto-Update Connection	No
WorkPoint Location	Concentric
Brace Clearance	2.066 in
Brace WorkPoint Distance	10.000 in
Brace/Gusset Overlap	6.000 in
Gusset Clip	
Horizontal Clip	7.627 in
Vertical Clip	7.823 in
Brace/Clip Edge Dist	2.350 in
Gusset to Column Clip	
Vertical Clip	0.500 in
Horizontal Clip	0.500 in
Brace Angle from Vertical	45.725
Edge Distance y	2.000 in
Edge Distance z	2.000 in



M18 I: Summary Report

Brace to Column Base Plate Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x16.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Brace	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Gusset	P0.38x14.53x18.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Brace Axial	-22.37 kips	*Brace Axial (tension)*
Column Axial	53.85 kips	*Axial load on the column*
Column Strong Axis Shear	0.00 kips	*Shear load on the column that causes strong axis bending*
Column Weak Axis Shear	0.00 kips	*Shear load on the column that causes weak axis bending*
Column Strong Axis Moment	0.00 kips-ft	*Column moment about the strong axis*
Column Weak Axis Moment	-0.00 kips-ft	*Column moment about the weak axis*

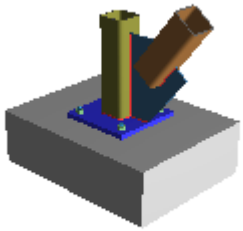
Governing LC: 3D - 15 - IBC 16-4 (a) (c)

Note: Unless specified, all code references are from AISC 360-16

Connection	Required	Max Unity Check	Result
Column/Base Plate connection	Lateral Slip	**0.92**	**PASS**
Gusset/Column connection	Gusset Shear Yield	**0.12**	**PASS**
Gusset/Brace connection	Brace Weld Strength	**0.17**	**PASS**

M18 I: Base Plate Report

Brace to Column Base Plate Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x16.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Brace	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Gusset	P0.38x14.53x18.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Design Axial	36.23 kips	*Axial load on the column*
Design Strong Axis Shear	13.77 kips	*Shear load on the column that causes strong axis bending*
Design Weak Axis Shear	0.00 kips	*Shear load on the column that causes weak axis bending*
Design Strong Axis Moment	0.00 kips-ft	*Column moment about the strong axis*
Design Weak Axis Moment	-0.00 kips-ft	*Column moment about the weak axis*

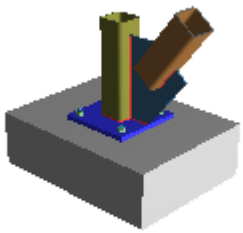
Governing LC: 3D - 15 - IBC 16-4 (a) (c)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions				**PASS**
Loading at Base Plate				**n/a**
Load Distribution (Strong Axis)				**n/a**
Load Distribution (Weak Axis)				**n/a**
Gusset Shear Yield	8.05 kips	36.45 kips	**0.22**	**PASS**
Gusset Shear Rupture	8.05 kips	44.04 kips	**0.18**	**PASS**
Concrete Bearing			**0.03**	**PASS**
Lateral Slip			**0.92**	**PASS**
Plate Flexural Yielding(Compression)(Strong Axis)	0.16 kips-ft/in	0.67 kips-ft/in	**0.23**	**PASS**
Plate Flexural Yielding(Compression)(Weak Axis)	0.16 kips-ft/in	0.67 kips-ft/in	**0.23**	**PASS**
Column Weld Limitations				**PASS**
Weld Limitations at Gusset				**PASS**
Column Flange Weld Strength	0.00 kips/ft	66.82 kips/ft	**0.00**	**PASS**
Column Web Weld Strength	7.45 kips/ft	66.82 kips/ft	**0.11**	**PASS**
Gusset Weld Strength	8.05 kips	50.11 kips	**0.16**	**PASS**

M18 I: Gusset/Column Report

Brace to Column Base Plate Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x16.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Brace	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Gusset	P0.38x14.53x18.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-17.63 kips	*Calculated Shear Load*
Axial Load	-5.72 kips	*Calculated Axial Load (tension)*
Moment Load	-0.00 kips-ft	*Calculated Moment*

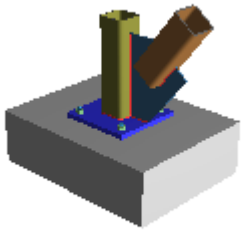
Governing LC: 3D - 15 - IBC 16-4 (a) (c)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
HSS Limitations				**PASS**
Column Weld Limitations				**PASS**
Loading at Gusset to Column				**n/a**
Gusset Shear Yield	17.63 kips	141.75 kips	**0.12**	**PASS**
Gusset Shear Rupture	17.63 kips	171.28 kips	**0.10**	**PASS**
Gusset Axial Yield	5.72 kips	212.63 kips	**0.03**	**PASS**
Gusset Tensile Rupture	5.72 kips	285.47 kips	**0.02**	**PASS**
Gusset Flexural Yield			**0.02**	**PASS**
Gusset Flexural Rupture			**0.01**	**PASS**
Column Weld Strength	18.53 kips	155.90 kips	**0.12**	**PASS**
Column Web Bending	4.41 kips-ft	67.04 kips-ft	**0.07**	**PASS**
HSS Punching Shear	4.41 kips-ft	81.98 kips-ft	**0.05**	**PASS**
HSS Column Transverse Plastification	5.72 kips	67.37 kips	**0.08**	**PASS**

M18 I: Gusset/Brace Report

Brace to Column Base Plate Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x16.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Brace	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Gusset	P0.38x14.53x18.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Brace Axial	-22.37 kips	*Brace Axial (tension)*

Governing LC: 3D - 15 - IBC 16-4 (a) (c)

Note: Unless specified, all code references are from AISC 360-16

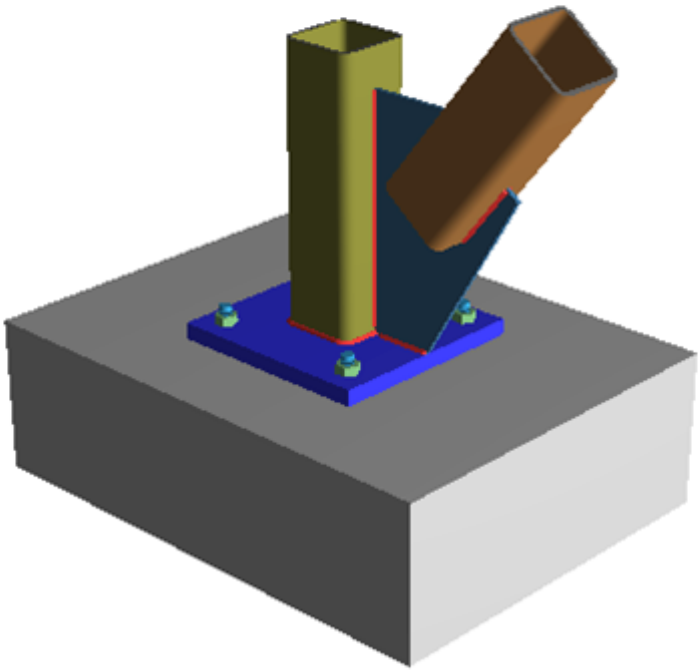
Limit State	Required	Available	Unity Check	Result
Brace Weld Limitations				**PASS**
Gusset Plate Tensile Yield (Whitmore)	22.37 kips	157.08 kips	**0.14**	**PASS**
Gusset Plate Tensile Rupture (Whitmore)	22.37 kips	210.89 kips	**0.11**	**PASS**
Brace Tensile Yield	22.37 kips	313.81 kips	**0.07**	**PASS**
Brace Tensile Rupture	22.37 kips	196.59 kips	**0.11**	**PASS**
Brace Weld Strength	22.37 kips	133.63 kips	**0.17**	**PASS**

Connection	
Connection Title	M18 I
Connection Type	Brace to Column Base Plate Connection
Connection Category	
Gusset to Column Orientation	Strong Axis
Brace Location	Front
Bolt Layout	Four
Plate Washers	No
Loading (LRFD)	
Custom?	No
Brace Axial	-22.367 kips
Column Axial	53.852 kips
Column Strong Axis Shear	0.000 kips
Column Weak Axis Shear	0.000 kips
Column Strong Axis Moment	0.000 kips-ft
Column Weak Axis Moment	-0.001 kips-ft
Qf	1.000 Coeff
Components	
Brace Section	HSS6X6X6
Material	A500 Gr.B RECT
Member Orientation	Long Side Vertical
Column Section	HSS6X6X6
Material	A500 Gr.B RECT
Gusset	P0.38x14.53x18.00
Material	A36
Tapered ?	Cut Back
Thickness	0.375 in
Width	14.534 in
Length	18.000 in
Cut Width	9.534 in
Cut Length	0.000 in
Gusset to Base Plate Length	5.000 in
Base Plate	P1.00x16.00x16.00
Material	A36
Length	16.000 in
Width	16.000 in
Thickness	1.000 in
Static Friction Coefficient	0.550 Coeff
Hole Type	OVS
Concrete Support	C40.00x30.00x12.00
Length	40.000 in
Width	30.000 in
Thickness	
Compressive Strength (f'c)	4.000 ksi
Anchor Bolts	1" F1554 Gr.36-N
Material	F1554 Gr.36-N
Diameter, in.	1"
Bolt Spacing y	12.000 in
Bolt Spacing z	12.000 in
Column Weld	E70
Type	Fillet
Fillet Size	4.000 Sixteenths
Brace-Gusset Connection	

continued on next page...

M18 I: Connection Properties Report (continued):

Connection Type	Slotted Around Gusset
Brace Gusset Weld	E70
Type	Fillet
Fillet Size	4.000 Sixteenths
Gusset-Column Connection	
Type	Direct Weld
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Gusset-Base Plate Connection	
Type	Direct Weld
Gusset Baseplate Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Assembly	
Auto-Update Connection	No
WorkPoint Location	Concentric
Brace Clearance	3.255 in
Brace WorkPoint Distance	14.000 in
Brace/Gusset Overlap	6.000 in
Gusset Clip	
Horizontal Clip	8.088 in
Vertical Clip	6.318 in
Brace/Clip Edge Dist	0.638 in
Gusset to Column Clip	
Vertical Clip	0.500 in
Horizontal Clip	0.500 in
Brace Angle from Vertical	37.999
Edge Distance y	2.000 in
Edge Distance z	2.000 in



M19 J: Summary Report

Brace to Column Base Plate Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.25x16.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Brace	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Gusset	P0.38x12.62x18.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Brace Axial	2.75 kips	*Brace Axial (compression)*
Column Axial	2.04 kips	*Axial load on the column*
Column Strong Axis Shear	-0.00 kips	*Shear load on the column that causes strong axis bending*
Column Weak Axis Shear	0.00 kips	*Shear load on the column that causes weak axis bending*
Column Strong Axis Moment	0.00 kips-ft	*Column moment about the strong axis*
Column Weak Axis Moment	-0.00 kips-ft	*Column moment about the weak axis*

Governing LC: 3D - 3 - IBC 16-2 (b)

Note: Unless specified, all code references are from AISC 360-16

Connection	Required	Max Unity Check	Result
Column/Base Plate connection	Lateral Slip	**0.98**	**PASS**
Gusset/Column connection	Gusset Shear Yield	**0.02**	**PASS**
Gusset/Brace connection	Gusset Plate Compression (Whitmore)	**0.04**	**PASS**

M19 J: Base Plate Report

Brace to Column Base Plate Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.25x16.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Brace	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Gusset	P0.38x12.62x18.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Design Axial	4.21 kips	*Axial load on the column*
Design Strong Axis Shear	-1.69 kips	*Shear load on the column that causes strong axis bending*
Design Weak Axis Shear	0.00 kips	*Shear load on the column that causes weak axis bending*
Design Strong Axis Moment	0.00 kips-ft	*Column moment about the strong axis*
Design Weak Axis Moment	-0.00 kips-ft	*Column moment about the weak axis*

Governing LC: 3D - 3 - IBC 16-2 (b)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions				**PASS**
Loading at Base Plate				**n/a**
Load Distribution (Strong Axis)				**n/a**
Load Distribution (Weak Axis)				**n/a**
Gusset Shear Yield	0.99 kips	36.45 kips	**0.03**	**PASS**
Gusset Shear Rupture	0.99 kips	44.04 kips	**0.02**	**PASS**
Concrete Bearing			**0.00**	**PASS**
Lateral Slip			**0.98**	**PASS**
Plate Flexural Yielding(Compression)(Strong Axis)	0.02 kips-ft/in	1.05 kips-ft/in	**0.02**	**PASS**
Plate Flexural Yielding(Compression)(Weak Axis)	0.02 kips-ft/in	1.05 kips-ft/in	**0.02**	**PASS**
Column Weld Limitations				**PASS**
Weld Limitations at Gusset				**PASS**
Column Flange Weld Strength	0.00 kips/ft	66.82 kips/ft	**0.00**	**PASS**
Column Web Weld Strength	0.92 kips/ft	66.82 kips/ft	**0.01**	**PASS**
Gusset Weld Strength	0.99 kips	50.11 kips	**0.02**	**PASS**

M19 J: Gusset/Column Report

Brace to Column Base Plate Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.25x16.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Brace	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Gusset	P0.38x12.62x18.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	2.17 kips	*Calculated Shear Load*
Axial Load	0.70 kips	*Calculated Axial Load (compression)*
Moment Load	0.00 kips-ft	*Calculated Moment*

Governing LC: 3D - 3 - IBC 16-2 (b)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
HSS Limitations				**PASS**
Column Weld Limitations				**PASS**
Loading at Gusset to Column				**n/a**
Gusset Shear Yield	2.17 kips	141.75 kips	**0.02**	**PASS**
Gusset Shear Rupture	2.17 kips	171.28 kips	**0.01**	**PASS**
Gusset Axial Yield	0.70 kips	212.63 kips	**0.00**	**PASS**
Gusset Flexural Yield			**0.00**	**PASS**
Gusset Flexural Rupture			**0.00**	**PASS**
Column Weld Strength	2.17 kips	155.90 kips	**0.01**	**PASS**
Column Web Bending	0.54 kips-ft	67.04 kips-ft	**0.01**	**PASS**
HSS Punching Shear	0.54 kips-ft	81.98 kips-ft	**0.01**	**PASS**
HSS Column Transverse Plastification	0.70 kips	67.37 kips	**0.01**	**PASS**

M19 J: Gusset/Brace Report

Brace to Column Base Plate Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.25x16.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Brace	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Gusset	P0.38x12.62x18.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Brace Axial	2.75 kips	*Brace Axial (compression)*

Governing LC: 3D - 3 - IBC 16-2 (b)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Brace Weld Limitations				**PASS**
Gusset Plate Compression (Whitmore)	2.75 kips	64.86 kips	**0.04**	**PASS**
Brace Weld Strength	2.75 kips	133.63 kips	**0.02**	**PASS**

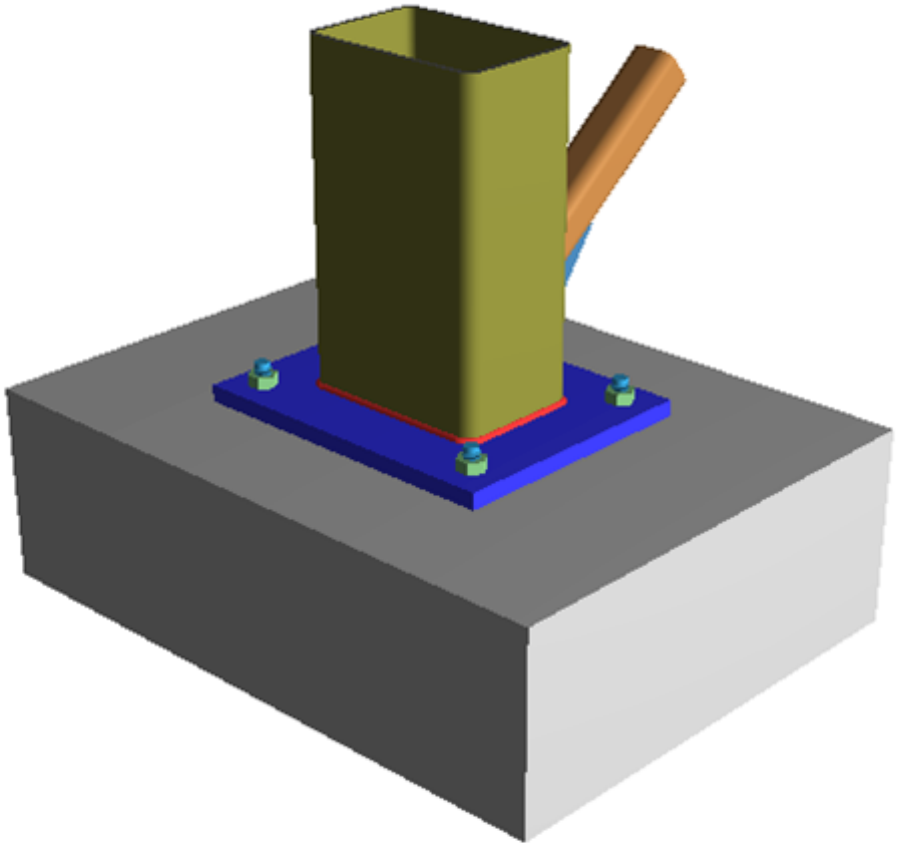
M19 J: Connection Properties Report

Connection	
Connection Title	M19 J
Connection Type	Brace to Column Base Plate Connection
Connection Category	
Gusset to Column Orientation	Strong Axis
Brace Location	Front
Bolt Layout	Four
Plate Washers	No
Loading (LRFD)	
Custom?	No
Brace Axial	2.750 kips
Column Axial	2.043 kips
Column Strong Axis Shear	0.000 kips
Column Weak Axis Shear	0.000 kips
Column Strong Axis Moment	0.000 kips-ft
Column Weak Axis Moment	0.000 kips-ft
Qf	1.000 Coeff
Components	
Brace Section	HSS6X6X6
Material	A500 Gr.B RECT
Member Orientation	Long Side Vertical
Column Section	HSS6X6X6
Material	A500 Gr.B RECT
Gusset	P0.38x12.62x18.00
Material	A36
Tapered ?	Cut Back
Thickness	0.375 in
Width	12.617 in
Length	18.000 in
Cut Width	7.617 in
Cut Length	0.000 in
Gusset to Base Plate Length	5.000 in
Base Plate	P1.25x16.00x16.00
Material	A36
Length	16.000 in
Width	16.000 in
Thickness	1.250 in
Static Friction Coefficient	0.550 Coeff
Hole Type	OVS
Concrete Support	C40.00x30.00x12.00
Length	40.000 in
Width	30.000 in
Thickness	
Compressive Strength (f'c)	4.000 ksi
Anchor Bolts	1" F1554 Gr.36-N
Material	F1554 Gr.36-N
Diameter, in.	1"
Bolt Spacing y	12.000 in
Bolt Spacing z	12.000 in
Column Weld	E70
Type	Fillet
Fillet Size	4.000 Sixteenths
Brace-Gusset Connection	

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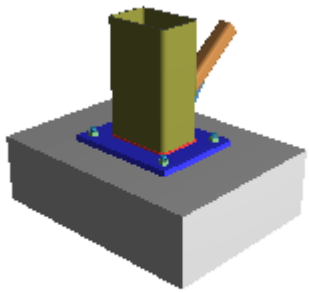
M19 J: Connection Properties Report (continued):

Connection Type	Slotted Around Gusset
Brace Gusset Weld	E70
Type	Fillet
Fillet Size	4.000 Sixteenths
Gusset-Column Connection	
Type	Direct Weld
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Gusset-Base Plate Connection	
Type	Direct Weld
Gusset Baseplate Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Assembly	
Auto-Update Connection	No
WorkPoint Location	Concentric
Brace Clearance	3.255 in
Brace WorkPoint Distance	14.000 in
Brace/Gusset Overlap	6.000 in
Gusset Clip	
Horizontal Clip	6.171 in
Vertical Clip	4.821 in
Brace/Clip Edge Dist	0.638 in
Gusset to Column Clip	
Vertical Clip	0.500 in
Horizontal Clip	0.500 in
Brace Angle from Vertical	37.999
Edge Distance y	2.000 in
Edge Distance z	2.000 in



M14 I: Summary Report

Brace to Column Base Plate Connection



Material Properties:				
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x16.00x20.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Brace	HSS3X3X6	A36 Gr.36	F_y = 36.00 ksi	F_u = 58.00 ksi
Gusset	P0.38x8.61x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Brace Axial	0.00 kips	*Brace Axial*
Column Axial	50.61 kips	*Axial load on the column*
Column Strong Axis Shear	-2.12 kips	*Shear load on the column that causes strong axis bending*
Column Weak Axis Shear	-0.29 kips	*Shear load on the column that causes weak axis bending*
Column Strong Axis Moment	0.00 kips-ft	*Column moment about the strong axis*
Column Weak Axis Moment	0.00 kips-ft	*Column moment about the weak axis*

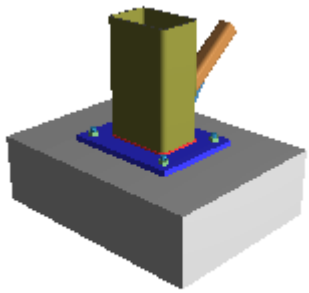
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Connection	Required	Max Unity Check	Result
Column/Base Plate connection	Plate Flexural Yielding(Compression)	**0.18**	**PASS**
Gusset/Column connection	Gusset Shear Yield	**0.00**	**PASS**
Gusset/Brace connection	Gusset Plate Compression (Whitmore)	**0.00**	**PASS**

M14 I: Base Plate Report

Brace to Column Base Plate Connection



Material Properties:				
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x16.00x20.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Brace	HSS3X3X6	A36 Gr.36	F_y = 36.00 ksi	F_u = 58.00 ksi
Gusset	P0.38x8.61x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Design Axial	50.61 kips	*Axial load on the column*
Design Strong Axis Shear	-2.12 kips	*Shear load on the column that causes strong axis bending*
Design Weak Axis Shear	-0.29 kips	*Shear load on the column that causes weak axis bending*
Design Strong Axis Moment	0.00 kips-ft	*Column moment about the strong axis*
Design Weak Axis Moment	0.00 kips-ft	*Column moment about the weak axis*

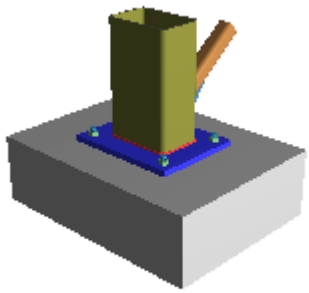
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions				**PASS**
Loading at Base Plate				**n/a**
Gusset Shear Yield	0.00 kips	28.35 kips	**0.00**	**PASS**
Gusset Shear Rupture	0.00 kips	34.26 kips	**0.00**	**PASS**
Concrete Bearing	0.16 ksi	4.14 ksi	**0.04**	**PASS**
Lateral Slip	2.14 kips	20.88 kips	**0.10**	**PASS**
Plate Flexural Yielding(Compression)	0.12 kips-ft/in	0.67 kips-ft/in	**0.18**	**PASS**
Column Weld Limitations				**PASS**
Weld Limitations at Gusset				**PASS**
Column Flange Weld Strength	0.27 kips/ft	66.82 kips/ft	**0.00**	**PASS**
Column Web Weld Strength	1.20 kips/ft	66.82 kips/ft	**0.02**	**PASS**
Gusset Weld Strength	0.00 kips	38.98 kips	**0.00**	**PASS**

M14 I: Gusset/Column Report

Brace to Column Base Plate Connection



Material Properties:				
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x16.00x20.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Brace	HSS3X3X6	A36 Gr.36	F_y = 36.00 ksi	F_u = 58.00 ksi
Gusset	P0.38x8.61x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	0.00 kips	*Calculated Shear Load*
Axial Load	0.00 kips	*Calculated Axial Load*
Moment Load	0.00 kips-ft	*Calculated Moment*

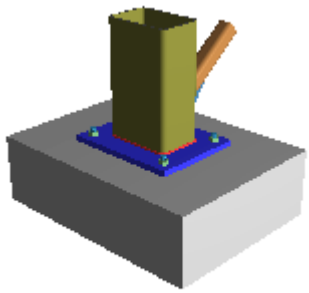
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
HSS Limitations				**PASS**
Column Weld Limitations				**PASS**
Loading at Gusset to Column				**n/a**
Gusset Shear Yield	0.00 kips	93.15 kips	**0.00**	**PASS**
Gusset Shear Rupture	0.00 kips	112.56 kips	**0.00**	**PASS**
Gusset Flexural Yield			**0.00**	**PASS**
Gusset Flexural Rupture			**0.00**	**PASS**
Column Weld Strength	0.00 kips	102.45 kips	**0.00**	**PASS**
Column Web Bending	0.00 kips-ft	21.98 kips-ft	**0.00**	**PASS**

M14 I: Gusset/Brace Report

Brace to Column Base Plate Connection



Material Properties:				
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x16.00x20.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Brace	HSS3X3X6	A36 Gr.36	F_y = 36.00 ksi	F_u = 58.00 ksi
Gusset	P0.38x8.61x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Brace Axial	0.00 kips	*Brace Axial*

Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Brace Weld Limitations				**PASS**
Gusset Plate Compression (Whitmore)	0.00 kips	79.33 kips	**0.00**	**PASS**
Brace Weld Strength	0.00 kips	89.09 kips	**0.00**	**PASS**

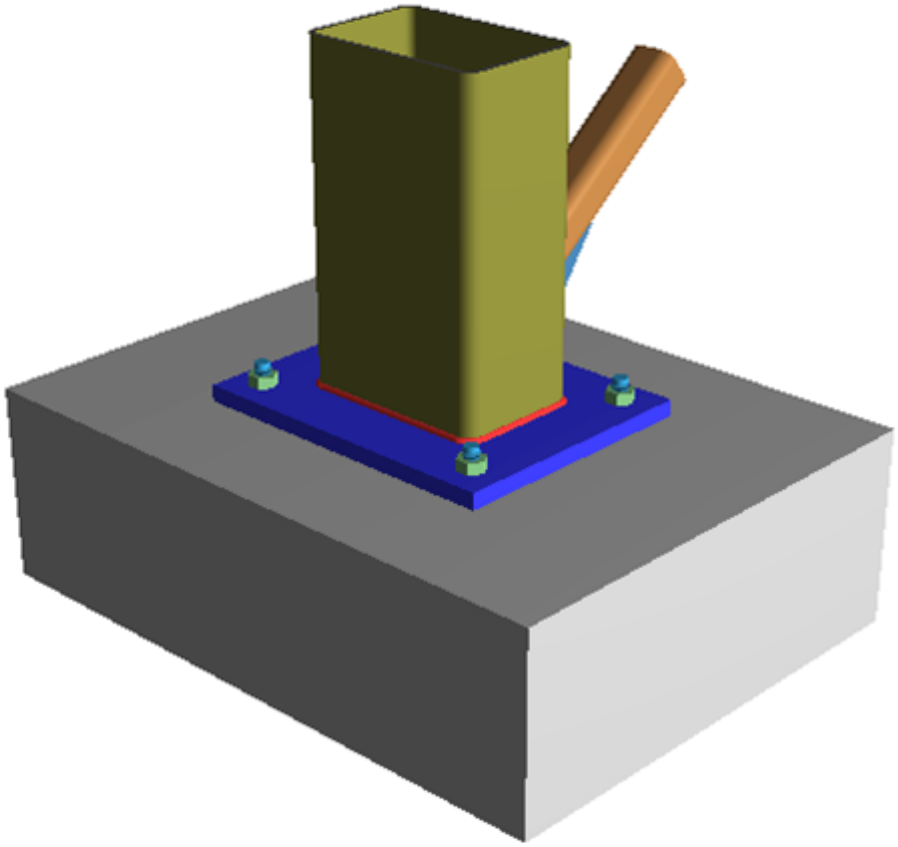
M14 I: Connection Properties Report

Connection	
Connection Title	M14 I
Connection Type	Brace to Column Base Plate Connection
Connection Category	
Gusset to Column Orientation	Weak Axis
Brace Location	Right
Bolt Layout	Four
Plate Washers	No
Loading (LRFD)	
Custom?	No
Brace Axial	0.000 kips
Column Axial	50.609 kips
Column Strong Axis Shear	-2.123 kips
Column Weak Axis Shear	-0.294 kips
Column Strong Axis Moment	0.000 kips-ft
Column Weak Axis Moment	0.000 kips-ft
Qf	1.000 Coeff
Components	
Brace Section	HSS3X3X6
Material	A36 Gr.36
Member Orientation	Long Side Vertical
Column Section	HSS12X8X6
Material	A500 Gr.B RECT
Gusset	P0.38x8.61x12.00
Material	A36
Tapered ?	Cut Back
Thickness	0.375 in
Width	8.608 in
Length	12.000 in
Cut Width	4.608 in
Cut Length	0.000 in
Gusset to Base Plate Length	4.000 in
Base Plate	P1.00x16.00x20.00
Material	A36
Length	20.000 in
Width	16.000 in
Thickness	1.000 in
Static Friction Coefficient	0.550 Coeff
Hole Type	OVS
Concrete Support	C40.00x30.00x12.00
Length	40.000 in
Width	30.000 in
Thickness	
Compressive Strength (f'c)	4.000 ksi
Anchor Bolts	1" F1554 Gr.36-N
Material	F1554 Gr.36-N
Diameter, in.	1"
Bolt Spacing y	16.000 in
Bolt Spacing z	12.000 in
Column Weld	E70
Type	Fillet
Fillet Size	4.000 Sixteenths
Brace-Gusset Connection	

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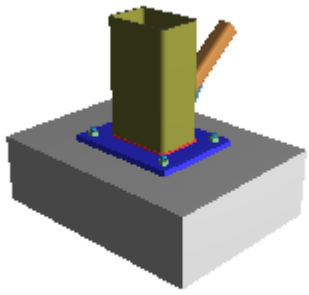
M14 I: Connection Properties Report (continued):

Connection Type	Slotted Around Gusset
Brace Gusset Weld	E70
Type	Fillet
Fillet Size	4.000 Sixteenths
Gusset-Column Connection	
Type	Direct Weld
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Gusset-Base Plate Connection	
Type	Direct Weld
Gusset Baseplate Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Assembly	
Auto-Update Connection	No
WorkPoint Location	Concentric
Brace Clearance	2.885 in
Brace WorkPoint Distance	10.000 in
Brace/Gusset Overlap	4.000 in
Gusset Clip	
Horizontal Clip	4.269 in
Vertical Clip	5.357 in
Brace/Clip Edge Dist	2.687 in
Gusset to Column Clip	
Vertical Clip	0.500 in
Horizontal Clip	0.500 in
Brace Angle from Vertical	51.446
Edge Distance y	2.000 in
Edge Distance z	2.000 in



M15 I: Summary Report

Brace to Column Base Plate Connection



Material Properties:				
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x16.00x20.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Brace	HSS3X3X6	A36 Gr.36	F_y = 36.00 ksi	F_u = 58.00 ksi
Gusset	P0.38x8.59x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Brace Axial	0.00 kips	*Brace Axial*
Column Axial	81.89 kips	*Axial load on the column*
Column Strong Axis Shear	-0.69 kips	*Shear load on the column that causes strong axis bending*
Column Weak Axis Shear	-0.21 kips	*Shear load on the column that causes weak axis bending*
Column Strong Axis Moment	0.00 kips-ft	*Column moment about the strong axis*
Column Weak Axis Moment	0.00 kips-ft	*Column moment about the weak axis*

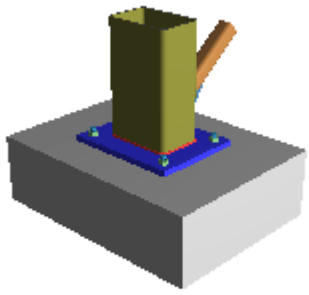
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Connection	Required	Max Unity Check	Result
Column/Base Plate connection	Plate Flexural Yielding(Compression)	**0.29**	**PASS**
Gusset/Column connection	Gusset Shear Yield	**0.00**	**PASS**
Gusset/Brace connection	Gusset Plate Compression (Whitmore)	**0.00**	**PASS**

M15 I: Base Plate Report

Brace to Column Base Plate Connection



Material Properties:				
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x16.00x20.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Brace	HSS3X3X6	A36 Gr.36	F_y = 36.00 ksi	F_u = 58.00 ksi
Gusset	P0.38x8.59x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Design Axial	81.89 kips	*Axial load on the column*
Design Strong Axis Shear	-0.69 kips	*Shear load on the column that causes strong axis bending*
Design Weak Axis Shear	-0.21 kips	*Shear load on the column that causes weak axis bending*
Design Strong Axis Moment	0.00 kips-ft	*Column moment about the strong axis*
Design Weak Axis Moment	0.00 kips-ft	*Column moment about the weak axis*

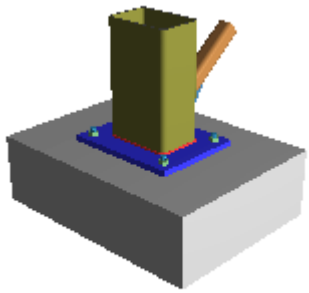
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions				**PASS**
Loading at Base Plate				**n/a**
Gusset Shear Yield	0.00 kips	28.35 kips	**0.00**	**PASS**
Gusset Shear Rupture	0.00 kips	34.26 kips	**0.00**	**PASS**
Concrete Bearing	0.26 ksi	4.14 ksi	**0.06**	**PASS**
Lateral Slip	0.72 kips	33.78 kips	**0.02**	**PASS**
Plate Flexural Yielding(Compression)	0.20 kips-ft/in	0.67 kips-ft/in	**0.29**	**PASS**
Column Weld Limitations				**PASS**
Weld Limitations at Gusset				**PASS**
Column Flange Weld Strength	0.19 kips/ft	66.82 kips/ft	**0.00**	**PASS**
Column Web Weld Strength	0.39 kips/ft	66.82 kips/ft	**0.01**	**PASS**
Gusset Weld Strength	0.00 kips	38.98 kips	**0.00**	**PASS**

M15 I: Gusset/Column Report

Brace to Column Base Plate Connection



Material Properties:				
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x16.00x20.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Brace	HSS3X3X6	A36 Gr.36	F_y = 36.00 ksi	F_u = 58.00 ksi
Gusset	P0.38x8.59x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	0.00 kips	*Calculated Shear Load*
Axial Load	0.00 kips	*Calculated Axial Load*
Moment Load	0.00 kips-ft	*Calculated Moment*

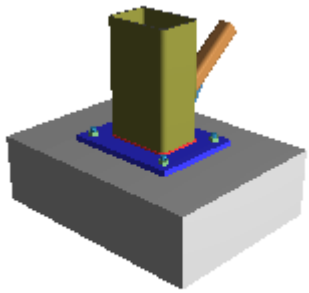
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
HSS Limitations				**PASS**
Column Weld Limitations				**PASS**
Loading at Gusset to Column				**n/a**
Gusset Shear Yield	0.00 kips	93.15 kips	**0.00**	**PASS**
Gusset Shear Rupture	0.00 kips	112.56 kips	**0.00**	**PASS**
Gusset Flexural Yield			**0.00**	**PASS**
Gusset Flexural Rupture			**0.00**	**PASS**
Column Weld Strength	0.00 kips	102.45 kips	**0.00**	**PASS**
Column Web Bending	0.00 kips-ft	21.98 kips-ft	**0.00**	**PASS**

M15 I: Gusset/Brace Report

Brace to Column Base Plate Connection



Material Properties:				
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x16.00x20.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Brace	HSS3X3X6	A36 Gr.36	F_y = 36.00 ksi	F_u = 58.00 ksi
Gusset	P0.38x8.59x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Brace Axial	0.00 kips	*Brace Axial*

Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

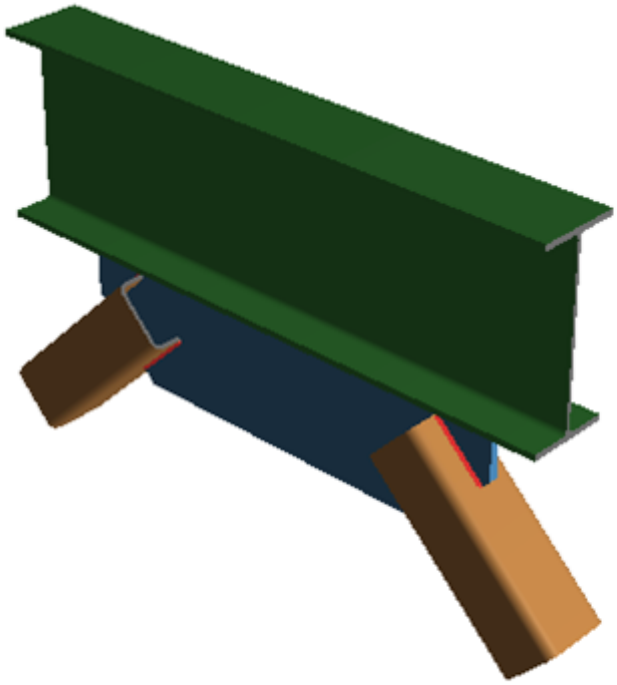
Limit State	Required	Available	Unity Check	Result
Brace Weld Limitations				**PASS**
Gusset Plate Compression (Whitmore)	0.00 kips	79.33 kips	**0.00**	**PASS**
Brace Weld Strength	0.00 kips	89.09 kips	**0.00**	**PASS**

Connection	
Connection Title	M15 I
Connection Type	Brace to Column Base Plate Connection
Connection Category	
Gusset to Column Orientation	Weak Axis
Brace Location	Right
Bolt Layout	Four
Plate Washers	No
Loading (LRFD)	
Custom?	No
Brace Axial	0.000 kips
Column Axial	81.892 kips
Column Strong Axis Shear	-0.686 kips
Column Weak Axis Shear	-0.213 kips
Column Strong Axis Moment	0.000 kips-ft
Column Weak Axis Moment	0.000 kips-ft
Qf	1.000 Coeff
Components	
Brace Section	HSS3X3X6
Material	A36 Gr.36
Member Orientation	Long Side Vertical
Column Section	HSS12X8X6
Material	A500 Gr.B RECT
Gusset	P0.38x8.59x12.00
Material	A36
Tapered ?	Cut Back
Thickness	0.375 in
Width	8.588 in
Length	12.000 in
Cut Width	4.588 in
Cut Length	0.000 in
Gusset to Base Plate Length	4.000 in
Base Plate	P1.00x16.00x20.00
Material	A36
Length	20.000 in
Width	16.000 in
Thickness	1.000 in
Static Friction Coefficient	0.550 Coeff
Hole Type	OVS
Concrete Support	C40.00x30.00x12.00
Length	40.000 in
Width	30.000 in
Thickness	
Compressive Strength (f'c)	4.000 ksi
Anchor Bolts	1" F1554 Gr.36-N
Material	F1554 Gr.36-N
Diameter, in.	1"
Bolt Spacing y	16.000 in
Bolt Spacing z	12.000 in
Column Weld	E70
Type	Fillet
Fillet Size	4.000 Sixteenths
Brace-Gusset Connection	

continued on next page...

M15 I: Connection Properties Report (continued):

Connection Type	Slotted Around Gusset
Brace Gusset Weld	E70
Type	Fillet
Fillet Size	4.000 Sixteenths
Gusset-Column Connection	
Type	Direct Weld
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Gusset-Base Plate Connection	
Type	Direct Weld
Gusset Baseplate Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Assembly	
Auto-Update Connection	No
WorkPoint Location	Concentric
Brace Clearance	2.885 in
Brace WorkPoint Distance	10.000 in
Brace/Gusset Overlap	4.000 in
Gusset Clip	
Horizontal Clip	4.250 in
Vertical Clip	5.332 in
Brace/Clip Edge Dist	2.687 in
Gusset to Column Clip	
Vertical Clip	0.500 in
Horizontal Clip	0.500 in
Brace Angle from Vertical	51.446
Edge Distance y	2.000 in
Edge Distance z	2.000 in



M17 I - M16 J: Summary Report

Vertical Brace Chevron Connection



Material Properties:				
Beam	W16X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Left Brace	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Right Brace	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Gusset	P0.75x12.00x40.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Left Brace Axial	-21.32 kips	*User Input Left Brace Axial Force (tension)*
Right Brace Axial	30.70 kips	*User Input Right Brace Axial Force (compression)*

Governing LC: 3D - 13 - IBC 16-4 (a) (a)

Note: Unless specified, all code references are from AISC 360-16

Connection	Required	Max Unity Check	Result
Gusset/Beam connection	Beam Weld Strength	**0.16**	**PASS**
Gusset/Left Brace connection	Brace Weld Strength	**0.16**	**PASS**
Gusset/Right Brace connection	Brace Weld Strength	**0.23**	**PASS**

M17 I - M16 J: Gusset/Beam Report

Vertical Brace Chevron Connection



Material Properties:				
Beam	W16X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Left Brace	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Right Brace	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Gusset	P0.75x12.00x40.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load (Section a-a)	-37.25 kips	*At Beam-Gusset interface, parallel to beam*
Axial Load (Section a-a)	6.56 kips	*At Beam-Gusset interface, perp. to beam*
Moment Load (Section a-a)	-24.83 kips-ft	*At Beam-Gusset interface, in gusset plane*
Shear Load (Section b-b)	-6.98 kips	*At Gusset Centroid, perp. to beam*
Axial Load (Section b-b)	3.36 kips	*At Gusset Centroid, parallel to beam*
Moment Load (Section b-b)	1.19 kips-ft	*At Gusset Centroid, in gusset plane*
Beam Moment	24.83 kips-ft	*Induced by Workpoint offset*

Governing LC: 3D - 13 - IBC 16-4 (a) (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Required Load Calculation				**n/a**
Geometry Restrictions at Beam				**PASS**
Beam Weld Limitations				**PASS**
Plate Shear Yield (Section a-a)	37.25 kips	648.00 kips	**0.06**	**PASS**
Plate Shear Rupture (Section a-a)	37.25 kips	783.00 kips	**0.05**	**PASS**
Plate Axial Yield (Section a-a)	6.56 kips	972.00 kips	**0.01**	**PASS**
Plate Flexural Yield (Section a-a)			**0.00**	**PASS**
Plate Flexural Rupture (Section a-a)			**0.00**	**PASS**
Plate Shear Yield (Section b-b)	6.98 kips	194.40 kips	**0.04**	**PASS**
Plate Shear Rupture (Section b-b)	6.98 kips	234.90 kips	**0.03**	**PASS**
Plate Axial Yield (Section b-b)	3.36 kips	291.60 kips	**0.01**	**PASS**
Plate Flexural Yield (Section b-b)			**0.00**	**PASS**
Plate Flexural Rupture (Section b-b)			**0.00**	**PASS**
Beam Weld Strength	17.46 kips/ft	106.91 kips/ft	**0.16**	**PASS**
Beam Web Yielding	6.56 kips	679.16 kips	**0.01**	**PASS**

M17 I - M16 J: Gusset/Left Brace Report

Vertical Brace Chevron Connection



Material Properties:				
Beam	W16X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Left Brace	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Right Brace	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Gusset	P0.75x12.00x40.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Brace Axial	-21.32 kips	*Brace Axial (tension)*

Governing LC: 3D - 13 - IBC 16-4 (a) (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Brace Weld Limitations				**PASS**
Gusset Plate Tensile Yield (Whitmore)	21.32 kips	314.16 kips	**0.07**	**PASS**
Gusset Plate Tensile Rupture (Whitmore)	21.32 kips	421.78 kips	**0.05**	**PASS**
Brace Tensile Yield	21.32 kips	313.81 kips	**0.07**	**PASS**
Brace Tensile Rupture	21.32 kips	148.01 kips	**0.14**	**PASS**
Brace Weld Strength	21.32 kips	133.63 kips	**0.16**	**PASS**

M17 I - M16 J: Gusset/Right Brace Report

Vertical Brace Chevron Connection



Material Properties:				
Beam	W16X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Left Brace	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Right Brace	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Gusset	P0.75x12.00x40.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Brace Axial	30.70 kips	*Brace Axial (compression)*

Governing LC: 3D - 13 - IBC 16-4 (a) (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Brace Weld Limitations				**PASS**
Gusset Plate Compression (Whitmore)	30.70 kips	293.16 kips	**0.10**	**PASS**
Brace Weld Strength	30.70 kips	133.63 kips	**0.23**	**PASS**

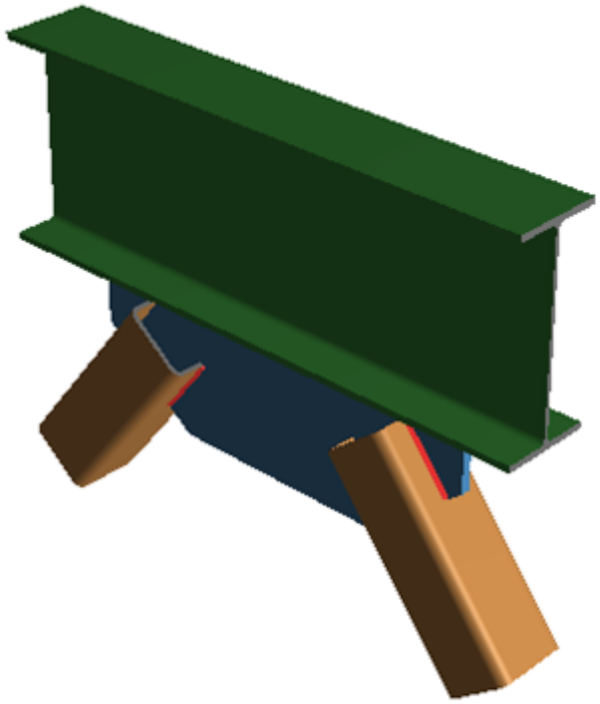
M17 I - M16 J: Connection Properties Report

Connection	
Connection Title	M17 I - M16 J
Connection Type	Vertical Brace Chevron Connection
Seismic Detailing	
Seismic System	None
Connection Category	
Braces	Below
Workpoint Location	Concentric
Loading (LRFD)	
Custom?	No
Left Brace Axial	-21.315 kips
Right Brace Axial	30.702 kips
Components	
Left Brace Section	HSS6X6X6
Material	A500 Gr.B RECT
Member Orientation	Long Side Vertical
Right Brace Section	HSS6X6X6
Material	A500 Gr.B RECT
Member Orientation	Long Side Vertical
Beam Section	W16X40
Material	A992
Gusset	P0.75x12.00x40.00
Material	A36
Thickness	0.750 in
Width	12.000 in
Length	40.000 in
Left Brace-Gusset Connection	
Connection Type	Slotted Around Gusset
Brace Gusset Weld	E70
Type	Fillet
Fillet Size	4.000 Sixteenths
Right Brace-Gusset Connection	
Connection Type	Slotted Around Gusset
Brace Gusset Weld	E70
Type	Fillet
Fillet Size	4.000 Sixteenths
Gusset-Beam Connection	
Type	Direct Weld
Beam Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Assembly	
Auto-Update Connection	No
Gusset/Beam Gap	0.000 in
Left Brace Clearance	2.413 in
Right Brace Clearance	2.418 in
Clearance between Braces	21.592 in
Left Brace WorkPoint Distance	18.000 in
Right Brace WorkPoint Distance	18.000 in
Left Brace/Gusset Overlap	6.000 in
Right Brace/Gusset Overlap	6.000 in
Left Gusset Clip	
Vertical Clip	6.136 in

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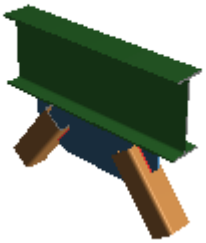
M17 I - M16 J: Connection Properties Report (continued):

Horizontal Clip	5.979 in
Brace/Clip Edge Dist	1.539 in
Right Gusset Clip	
Vertical Clip	6.134 in
Horizontal Clip	5.981 in
Brace/Clip Edge Dist	1.533 in
Left Brace Angle from Vertical	45.742
Right Brace Angle from Vertical	45.725



M19 I - M18 J: Summary Report

Vertical Brace Chevron Connection



Material Properties:				
Beam	W16X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Left Brace	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Right Brace	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Gusset	P0.75x12.00x33.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Left Brace Axial	31.47 kips	*User Input Left Brace Axial Force (compression)*
Right Brace Axial	-24.07 kips	*User Input Right Brace Axial Force (tension)*

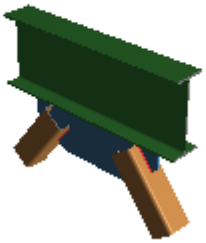
Governing LC: 3D - 13 - IBC 16-4 (a) (a)

Note: Unless specified, all code references are from AISC 360-16

Connection	Required	Max Unity Check	Result
Gusset/Beam connection	Beam Weld Strength	**0.21**	**PASS**
Gusset/Left Brace connection	Brace Weld Strength	**0.24**	**PASS**
Gusset/Right Brace connection	Brace Weld Strength	**0.18**	**PASS**

M19 I - M18 J: Gusset/Beam Report

Vertical Brace Chevron Connection



Material Properties:				
Beam	W16X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Left Brace	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Right Brace	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Gusset	P0.75x12.00x33.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load (Section a-a)	34.19 kips	*At Beam-Gusset interface, parallel to beam*
Axial Load (Section a-a)	5.83 kips	*At Beam-Gusset interface, perp. to beam*
Moment Load (Section a-a)	22.80 kips-ft	*At Beam-Gusset interface, in gusset plane*
Shear Load (Section b-b)	9.45 kips	*At Gusset Centroid, perp. to beam*
Axial Load (Section b-b)	2.28 kips	*At Gusset Centroid, parallel to beam*
Moment Load (Section b-b)	0.65 kips-ft	*At Gusset Centroid, in gusset plane*
Beam Moment	-22.80 kips-ft	*Induced by Workpoint offset*

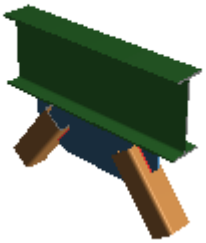
Governing LC: 3D - 13 - IBC 16-4 (a) (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Required Load Calculation				**n/a**
Geometry Restrictions at Beam				**PASS**
Beam Weld Limitations				**PASS**
Plate Shear Yield (Section a-a)	34.19 kips	534.60 kips	**0.06**	**PASS**
Plate Shear Rupture (Section a-a)	34.19 kips	645.97 kips	**0.05**	**PASS**
Plate Axial Yield (Section a-a)	5.83 kips	801.90 kips	**0.01**	**PASS**
Plate Flexural Yield (Section a-a)			**0.01**	**PASS**
Plate Flexural Rupture (Section a-a)			**0.00**	**PASS**
Plate Shear Yield (Section b-b)	9.45 kips	194.40 kips	**0.05**	**PASS**
Plate Shear Rupture (Section b-b)	9.45 kips	234.90 kips	**0.04**	**PASS**
Plate Axial Yield (Section b-b)	2.28 kips	291.60 kips	**0.01**	**PASS**
Plate Flexural Yield (Section b-b)			**0.00**	**PASS**
Plate Flexural Rupture (Section b-b)			**0.00**	**PASS**
Beam Weld Strength	21.95 kips/ft	106.91 kips/ft	**0.21**	**PASS**
Beam Web Yielding	5.83 kips	572.41 kips	**0.01**	**PASS**

M19 I - M18 J: Gusset/Left Brace Report

Vertical Brace Chevron Connection



Material Properties:				
Beam	W16X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Left Brace	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Right Brace	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Gusset	P0.75x12.00x33.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Brace Axial	31.47 kips	*Brace Axial (compression)*

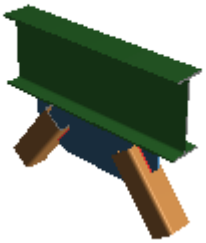
Governing LC: 3D - 13 - IBC 16-4 (a) (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Brace Weld Limitations				**PASS**
Gusset Plate Compression (Whitmore)	31.47 kips	302.44 kips	**0.10**	**PASS**
Brace Weld Strength	31.47 kips	133.63 kips	**0.24**	**PASS**

M19 I - M18 J: Gusset/Right Brace Report

Vertical Brace Chevron Connection



Material Properties:				
Beam	W16X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Left Brace	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Right Brace	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Gusset	P0.75x12.00x33.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Brace Axial	-24.07 kips	*Brace Axial (tension)*

Governing LC: 3D - 13 - IBC 16-4 (a) (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Brace Weld Limitations				**PASS**
Gusset Plate Tensile Yield (Whitmore)	24.07 kips	314.16 kips	**0.08**	**PASS**
Gusset Plate Tensile Rupture (Whitmore)	24.07 kips	421.78 kips	**0.06**	**PASS**
Brace Tensile Yield	24.07 kips	313.81 kips	**0.08**	**PASS**
Brace Tensile Rupture	24.07 kips	148.01 kips	**0.16**	**PASS**
Brace Weld Strength	24.07 kips	133.63 kips	**0.18**	**PASS**

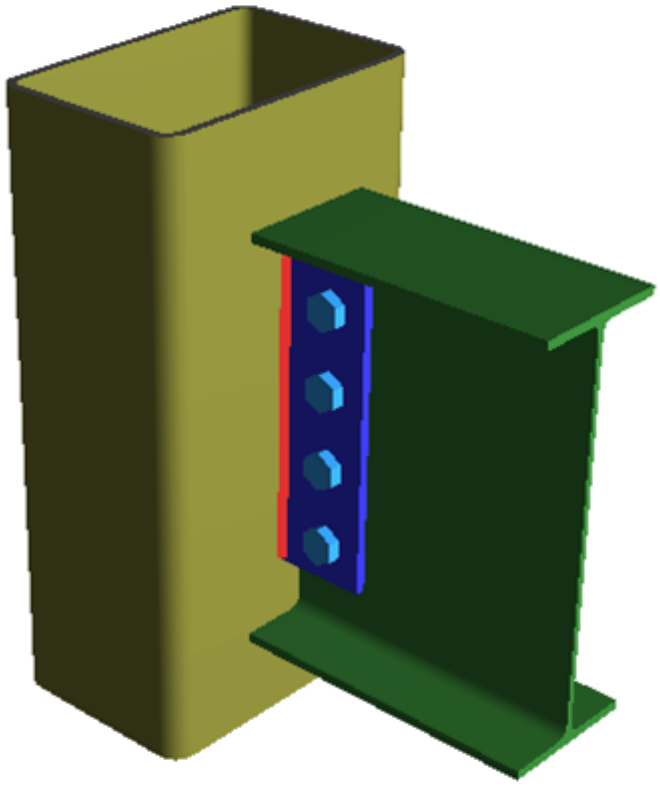
M19 I - M18 J: Connection Properties Report

Connection	
Connection Title	M19 I - M18 J
Connection Type	Vertical Brace Chevron Connection
Seismic Detailing	
Seismic System	None
Connection Category	
Braces	Below
Workpoint Location	Concentric
Loading (LRFD)	
Custom?	No
Left Brace Axial	31.472 kips
Right Brace Axial	-24.070 kips
Components	
Left Brace Section	HSS6X6X6
Material	A500 Gr.B RECT
Member Orientation	Long Side Vertical
Right Brace Section	HSS6X6X6
Material	A500 Gr.B RECT
Member Orientation	Long Side Vertical
Beam Section	W16X40
Material	A992
Gusset	P0.75x12.00x33.00
Material	A36
Thickness	0.750 in
Width	12.000 in
Length	33.000 in
Left Brace-Gusset Connection	
Connection Type	Slotted Around Gusset
Brace Gusset Weld	E70
Type	Fillet
Fillet Size	4.000 Sixteenths
Right Brace-Gusset Connection	
Connection Type	Slotted Around Gusset
Brace Gusset Weld	E70
Type	Fillet
Fillet Size	4.000 Sixteenths
Gusset-Beam Connection	
Type	Direct Weld
Beam Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Assembly	
Auto-Update Connection	No
Gusset/Beam Gap	0.000 in
Left Brace Clearance	1.973 in
Right Brace Clearance	1.973 in
Clearance between Braces	13.741 in
Left Brace WorkPoint Distance	15.000 in
Right Brace WorkPoint Distance	15.000 in
Left Brace/Gusset Overlap	6.000 in
Right Brace/Gusset Overlap	6.000 in
Left Gusset Clip	
Vertical Clip	6.242 in

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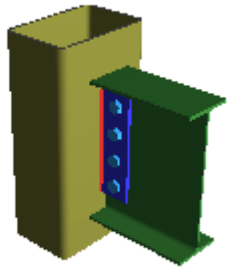
M19 I - M18 J: Connection Properties Report (continued):

Horizontal Clip	7.989 in
Brace/Clip Edge Dist	2.606 in
Right Gusset Clip	
Vertical Clip	6.242 in
Horizontal Clip	7.989 in
Brace/Clip Edge Dist	2.606 in
Left Brace Angle from Vertical	37.999
Right Brace Angle from Vertical	37.999



F1_G154 I - C20_L1: LRFD Results Report

Column/Beam Shear Tab Shear Connection



Material Properties:				
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Beam	W16X26	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x3.50x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	6.63 kips	*User Input Shear Load*
Axial Load	-0.00 kips	*User Input Axial Force (tension)*
Column Force	23.05 kips	*User Input Column Force*
Column Moment	0.57 kips-ft	*User Input Column Moment*

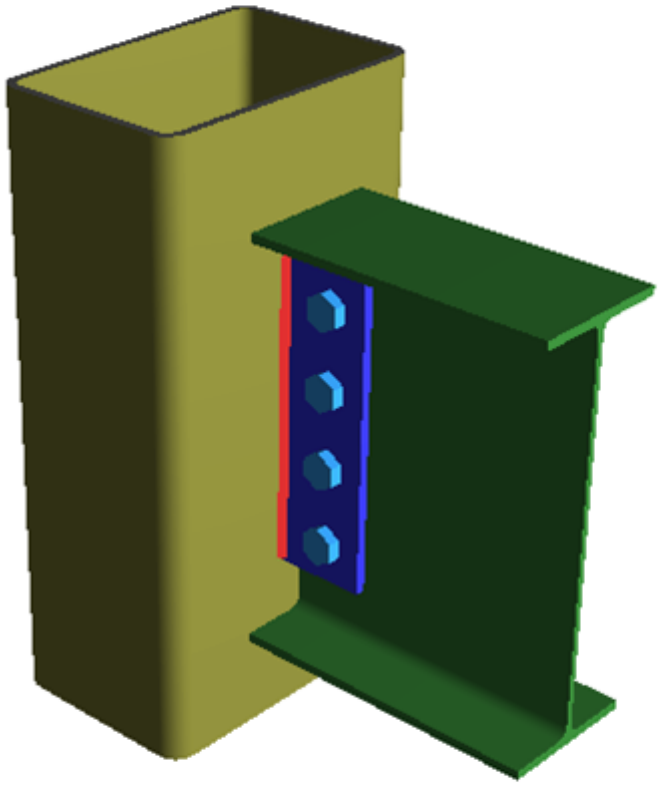
Governing LC: 3D - 5 - IBC 16-3 (b) (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
HSS Limitations				**PASS**
Geometry Restrictions at Beam				**PASS**
Column Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	6.63 kips	105.97 kips	**0.06**	**PASS**
Plate Shear Yield	6.63 kips	97.20 kips	**0.07**	**PASS**
Beam Shear Rupture	6.63 kips	89.21 kips	**0.07**	**PASS**
Plate Shear Rupture at Beam	6.63 kips	83.19 kips	**0.08**	**PASS**
Beam Block Shear	6.63 kips	103.74 kips	**0.06**	**PASS**
Plate Block Shear	6.63 kips	81.12 kips	**0.08**	**PASS**
Lateral Stability / Stabilizer Plates	6.63 kips	670.96 kips	**0.01**	**PASS**
Plate Flexural Yield			**0.01**	**PASS**
Plate Flexural Rupture			**0.01**	**PASS**
Plate Flexural Buckling	6.63 kips	105.71 kips	**0.06**	**PASS**
Bolt Bearing on Beam	6.63 kips	71.57 kips	**0.09**	**PASS**
Bolt Bearing on Plate at Beam	6.63 kips	71.57 kips	**0.09**	**PASS**
Bolt Shear at Beam	6.63 kips	59.39 kips	**0.11**	**PASS**
Bolt Group Eccentricity		***0.83***		
Weld at Column	9.38 kips/ft	133.63 kips/ft	**0.07**	**PASS**
HSS Punching Shear	1.11 kips-ft	36.44 kips-ft	**0.03**	**PASS**

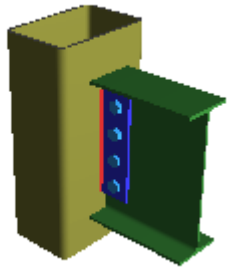
F1_G154 I - C20_L1: Connection Properties Report

Connection	
Connection Title	F1_G154 I - C20_L1
Connection Type	Column/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Column Connection Type	Wide
Through Plate	No
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	6.630 kips
Axial Load	0.000 kips
Column Force	23.052 kips
Column Moment	0.567 kips-ft
Eccentric Moment Calculation	Include All Eccentricities
Components	
Column Section	HSS12X8X6
Material	A500 Gr.B RECT
Beam Section	W16X26
Material	A992
Hole Type	STD
Plate Section	P0.38x3.50x12.00
Material	A36
Thickness	0.375 in
Width	3.500 in
Depth	12.000 in
Hole Type	STD
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	4
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Column/Beam Clearance	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	1.500 in
Beam Bolts Vert Edge Dist	1.500 in



F1_G154 J - M222: LRFD Results Report

Column/Beam Shear Tab Shear Connection



Material Properties:				
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Beam	W16X26	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x3.50x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-8.83 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force (compression)*
Column Force	17.81 kips	*User Input Column Force*
Column Moment	1.75 kips-ft	*User Input Column Moment*

Governing LC: 3D - 7 - IBC 16-3 (b) (c)

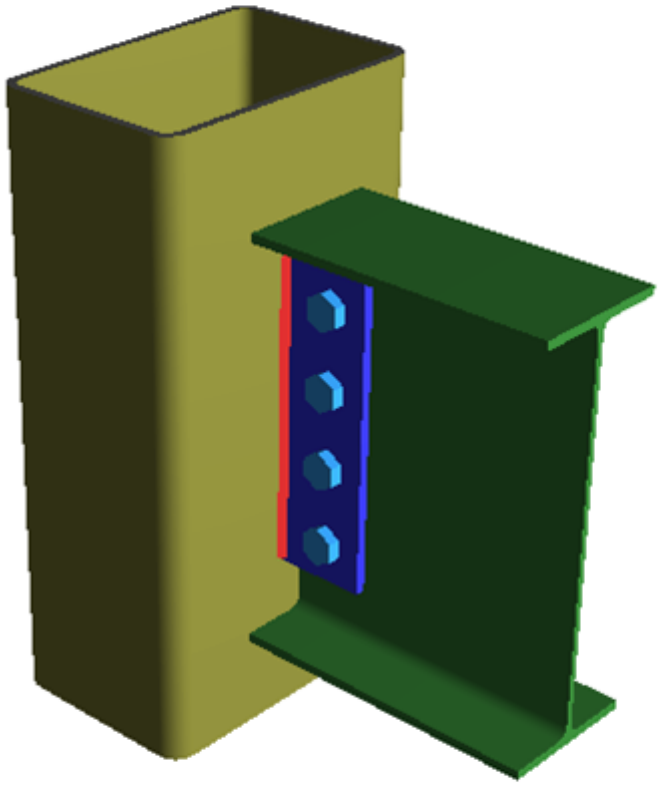
Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
HSS Limitations				**PASS**
Geometry Restrictions at Beam				**PASS**
Column Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	8.83 kips	105.97 kips	**0.08**	**PASS**
Plate Shear Yield	8.83 kips	97.20 kips	**0.09**	**PASS**
Beam Shear Rupture	8.83 kips	89.21 kips	**0.10**	**PASS**
Plate Shear Rupture at Beam	8.83 kips	83.19 kips	**0.11**	**PASS**
Beam Block Shear	8.83 kips	103.74 kips	**0.09**	**PASS**
Plate Block Shear	8.83 kips	81.12 kips	**0.11**	**PASS**
Lateral Stability / Stabilizer Plates	8.83 kips	670.96 kips	**0.01**	**PASS**
Plate Flexural Yield			**0.01**	**PASS**
Plate Flexural Rupture			**0.01**	**PASS**
Plate Flexural Buckling	8.83 kips	105.71 kips	**0.08**	**PASS**
Bolt Bearing on Beam	8.83 kips	71.57 kips	**0.12**	**PASS**
Bolt Bearing on Plate at Beam	8.83 kips	71.57 kips	**0.12**	**PASS**
Bolt Shear at Beam	8.83 kips	59.39 kips	**0.15**	**PASS**
Bolt Group Eccentricity		***0.83***		
Weld at Column	12.49 kips/ft	133.63 kips/ft	**0.09**	**PASS**
HSS Punching Shear	1.47 kips-ft	36.44 kips-ft	**0.04**	**PASS**

F1_G154 J - M222: Connection Properties Report

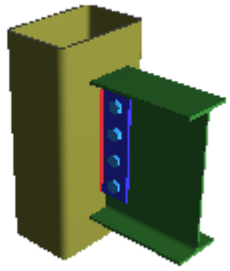
Column/Beam Shear Tab Shear Connection

Connection	
Connection Title	F1_G154 J - M222
Connection Type	Column/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Column Connection Type	Wide
Through Plate	No
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	-8.829 kips
Axial Load	0.001 kips
Column Force	17.807 kips
Column Moment	1.749 kips-ft
Eccentric Moment Calculation	Include All Eccentricities
Components	
Column Section	HSS12X8X6
Material	A500 Gr.B RECT
Beam Section	W16X26
Material	A992
Hole Type	STD
Plate Section	P0.38x3.50x12.00
Material	A36
Thickness	0.375 in
Width	3.500 in
Depth	12.000 in
Hole Type	STD
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	4
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Column/Beam Clearance	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	1.500 in
Beam Bolts Vert Edge Dist	1.500 in



F1_G17 I - C20_L1: LRFD Results Report

Column/Beam Shear Tab Shear Connection



Material Properties:				
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Beam	W16X26	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x3.50x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	10.96 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force (compression)*
Column Force	23.05 kips	*User Input Column Force*
Column Moment	-0.57 kips-ft	*User Input Column Moment*

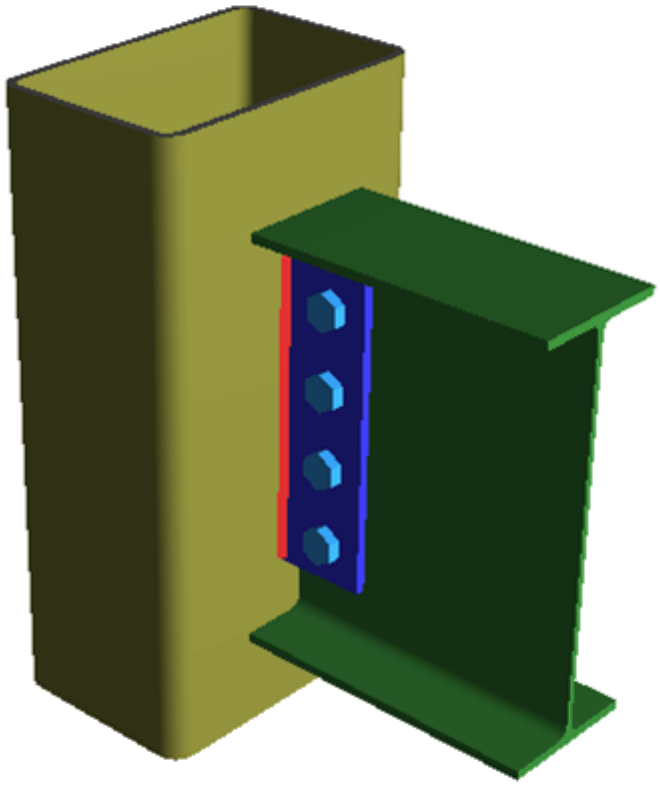
Governing LC: 3D - 5 - IBC 16-3 (b) (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
HSS Limitations				**PASS**
Geometry Restrictions at Beam				**PASS**
Column Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	10.96 kips	105.97 kips	**0.10**	**PASS**
Plate Shear Yield	10.96 kips	97.20 kips	**0.11**	**PASS**
Beam Shear Rupture	10.96 kips	89.21 kips	**0.12**	**PASS**
Plate Shear Rupture at Beam	10.96 kips	83.19 kips	**0.13**	**PASS**
Beam Block Shear	10.96 kips	103.74 kips	**0.11**	**PASS**
Plate Block Shear	10.96 kips	81.12 kips	**0.14**	**PASS**
Lateral Stability / Stabilizer Plates	10.96 kips	670.96 kips	**0.02**	**PASS**
Plate Flexural Yield			**0.02**	**PASS**
Plate Flexural Rupture			**0.02**	**PASS**
Plate Flexural Buckling	10.96 kips	105.71 kips	**0.10**	**PASS**
Bolt Bearing on Beam	10.96 kips	71.57 kips	**0.15**	**PASS**
Bolt Bearing on Plate at Beam	10.96 kips	71.57 kips	**0.15**	**PASS**
Bolt Shear at Beam	10.96 kips	59.39 kips	**0.18**	**PASS**
Bolt Group Eccentricity		***0.83***		
Weld at Column	15.50 kips/ft	133.63 kips/ft	**0.12**	**PASS**
HSS Punching Shear	1.83 kips-ft	36.44 kips-ft	**0.05**	**PASS**

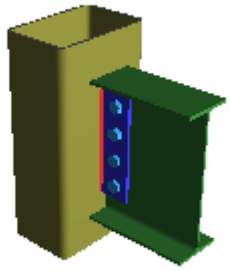
F1_G17 I - C20_L1: Connection Properties Report

Connection	
Connection Title	F1_G17 I - C20_L1
Connection Type	Column/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Column Connection Type	Wide
Through Plate	No
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	10.962 kips
Axial Load	0.000 kips
Column Force	23.052 kips
Column Moment	-0.567 kips-ft
Eccentric Moment Calculation	Include All Eccentricities
Components	
Column Section	HSS12X8X6
Material	A500 Gr.B RECT
Beam Section	W16X26
Material	A992
Hole Type	STD
Plate Section	P0.38x3.50x12.00
Material	A36
Thickness	0.375 in
Width	3.500 in
Depth	12.000 in
Hole Type	STD
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	4
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Column/Beam Clearance	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	1.500 in
Beam Bolts Vert Edge Dist	1.500 in



F1_G17 J - C19_L1: LRFD Results Report

Column/Beam Shear Tab Shear Connection



Material Properties:				
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Beam	W16X26	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x3.50x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-14.05 kips	*User Input Shear Load*
Axial Load	-0.00 kips	*User Input Axial Force (tension)*
Column Force	60.29 kips	*User Input Column Force*
Column Moment	-7.40 kips-ft	*User Input Column Moment*

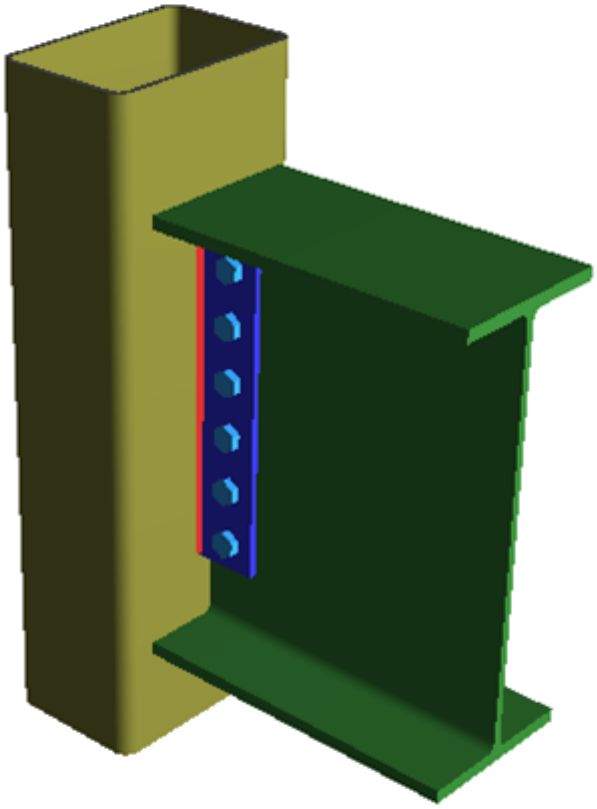
Governing LC: 3D - 7 - IBC 16-3 (b) (c)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
HSS Limitations				**PASS**
Geometry Restrictions at Beam				**PASS**
Column Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	14.05 kips	105.97 kips	**0.13**	**PASS**
Plate Shear Yield	14.05 kips	97.20 kips	**0.14**	**PASS**
Beam Shear Rupture	14.05 kips	89.21 kips	**0.16**	**PASS**
Plate Shear Rupture at Beam	14.05 kips	83.19 kips	**0.17**	**PASS**
Beam Block Shear	14.05 kips	103.74 kips	**0.14**	**PASS**
Plate Block Shear	14.05 kips	81.12 kips	**0.17**	**PASS**
Lateral Stability / Stabilizer Plates	14.05 kips	670.96 kips	**0.02**	**PASS**
Plate Flexural Yield			**0.03**	**PASS**
Plate Flexural Rupture			**0.03**	**PASS**
Plate Flexural Buckling	14.05 kips	105.71 kips	**0.13**	**PASS**
Bolt Bearing on Beam	14.05 kips	71.57 kips	**0.20**	**PASS**
Bolt Bearing on Plate at Beam	14.05 kips	71.57 kips	**0.20**	**PASS**
Bolt Shear at Beam	14.05 kips	59.39 kips	**0.24**	**PASS**
Bolt Group Eccentricity		***0.83***		
Weld at Column	19.87 kips/ft	133.63 kips/ft	**0.15**	**PASS**
HSS Punching Shear	2.34 kips-ft	36.44 kips-ft	**0.06**	**PASS**

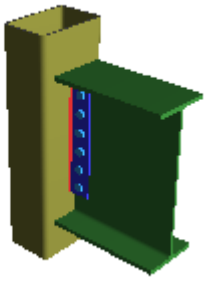
F1_G17 J - C19_L1: Connection Properties Report

Connection	
Connection Title	F1_G17 J - C19_L1
Connection Type	Column/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Column Connection Type	Wide
Through Plate	No
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	-14.051 kips
Axial Load	-0.001 kips
Column Force	60.291 kips
Column Moment	-7.400 kips-ft
Eccentric Moment Calculation	Include All Eccentricities
Components	
Column Section	HSS12X8X6
Material	A500 Gr.B RECT
Beam Section	W16X26
Material	A992
Hole Type	STD
Plate Section	P0.38x3.50x12.00
Material	A36
Thickness	0.375 in
Width	3.500 in
Depth	12.000 in
Hole Type	STD
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	4
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Column/Beam Clearance	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	1.500 in
Beam Bolts Vert Edge Dist	1.500 in



F1_G18 I - C19_L1: LRFD Results Report

Column/Beam Shear Tab Shear Connection



Material Properties:				
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Beam	W24X76	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x3.50x18.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	38.63 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force (compression)*
Column Force	60.29 kips	*User Input Column Force*
Column Moment	7.40 kips-ft	*User Input Column Moment*

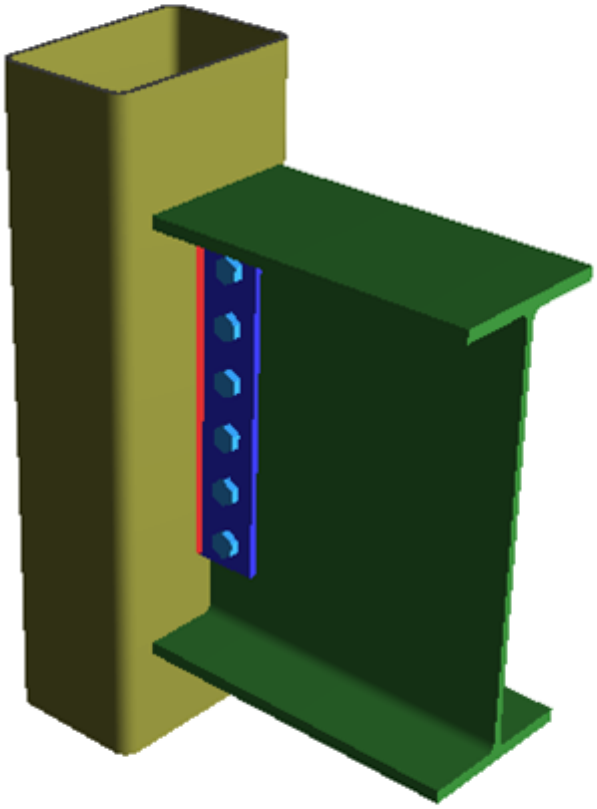
Governing LC: 3D - 7 - IBC 16-3 (b) (c)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
HSS Limitations				**PASS**
Geometry Restrictions at Beam				**PASS**
Column Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	38.63 kips	315.48 kips	**0.12**	**PASS**
Plate Shear Yield	38.63 kips	145.80 kips	**0.26**	**PASS**
Beam Shear Rupture	38.63 kips	240.03 kips	**0.16**	**PASS**
Plate Shear Rupture at Beam	38.63 kips	124.79 kips	**0.31**	**PASS**
Beam Block Shear	38.63 kips	251.22 kips	**0.15**	**PASS**
Plate Block Shear	38.63 kips	117.57 kips	**0.33**	**PASS**
Lateral Stability / Stabilizer Plates	38.63 kips	1006.44 kips	**0.04**	**PASS**
Plate Flexural Yield			**0.08**	**PASS**
Plate Flexural Rupture			**0.10**	**PASS**
Plate Flexural Buckling	38.63 kips	234.80 kips	**0.16**	**PASS**
Bolt Bearing on Beam	38.63 kips	107.35 kips	**0.36**	**PASS**
Bolt Bearing on Plate at Beam	38.63 kips	107.35 kips	**0.36**	**PASS**
Bolt Shear at Beam	38.63 kips	97.43 kips	**0.40**	**PASS**
Bolt Group Eccentricity		***0.91***		
Weld at Column	30.95 kips/ft	133.63 kips/ft	**0.23**	**PASS**
HSS Punching Shear	6.44 kips-ft	81.98 kips-ft	**0.08**	**PASS**

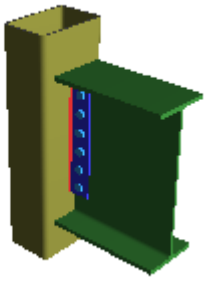
F1_G18 I - C19_L1: Connection Properties Report

Connection	
Connection Title	F1_G18 I - C19_L1
Connection Type	Column/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Column Connection Type	Wide
Through Plate	No
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	38.632 kips
Axial Load	0.005 kips
Column Force	60.291 kips
Column Moment	7.400 kips-ft
Eccentric Moment Calculation	Include All Eccentricities
Components	
Column Section	HSS12X8X6
Material	A500 Gr.B RECT
Beam Section	W24X76
Material	A992
Hole Type	STD
Plate Section	P0.38x3.50x18.00
Material	A36
Thickness	0.375 in
Width	3.500 in
Depth	18.000 in
Hole Type	STD
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	6
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Column/Beam Clearance	0.500 in
Plate Vertical Position	1.938 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	1.500 in
Beam Bolts Vert Edge Dist	1.500 in



F1_G18 J - C18_L1: LRFD Results Report

Column/Beam Shear Tab Shear Connection



Material Properties:				
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Beam	W24X76	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x3.50x18.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-45.12 kips	*User Input Shear Load*
Axial Load	0.73 kips	*User Input Axial Force (compression)*
Column Force	67.85 kips	*User Input Column Force*
Column Moment	-0.58 kips-ft	*User Input Column Moment*

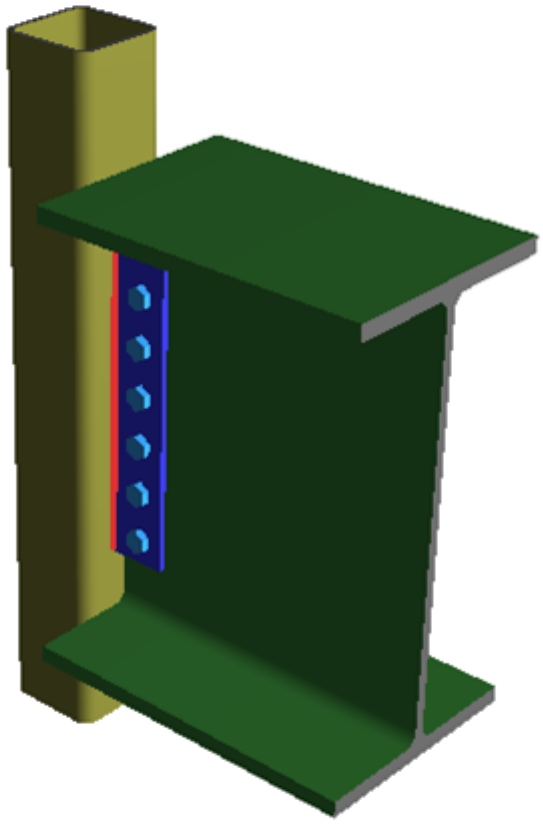
Governing LC: 3D - 7 - IBC 16-3 (b) (c)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
HSS Limitations				**PASS**
Geometry Restrictions at Beam				**PASS**
Column Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	45.12 kips	315.48 kips	**0.14**	**PASS**
Plate Shear Yield	45.12 kips	145.80 kips	**0.31**	**PASS**
Beam Shear Rupture	45.12 kips	240.03 kips	**0.19**	**PASS**
Plate Shear Rupture at Beam	45.12 kips	124.79 kips	**0.36**	**PASS**
Beam Block Shear	45.12 kips	251.22 kips	**0.18**	**PASS**
Plate Block Shear	45.12 kips	117.57 kips	**0.38**	**PASS**
Lateral Stability / Stabilizer Plates	45.12 kips	1006.44 kips	**0.04**	**PASS**
Plate Flexural Yield			**0.10**	**PASS**
Plate Flexural Rupture			**0.14**	**PASS**
Plate Flexural Buckling	45.12 kips	234.80 kips	**0.19**	**PASS**
Bolt Bearing on Beam	45.12 kips	107.35 kips	**0.42**	**PASS**
Bolt Bearing on Plate at Beam	45.12 kips	107.35 kips	**0.42**	**PASS**
Bolt Shear at Beam	45.12 kips	97.43 kips	**0.46**	**PASS**
Bolt Group Eccentricity		***0.91***		
Weld at Column	36.15 kips/ft	133.63 kips/ft	**0.27**	**PASS**
HSS Punching Shear	7.52 kips-ft	81.98 kips-ft	**0.09**	**PASS**

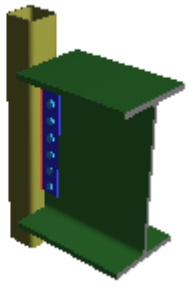
F1_G18 J - C18_L1: Connection Properties Report

Connection	
Connection Title	F1_G18 J - C18_L1
Connection Type	Column/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Column Connection Type	Wide
Through Plate	No
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	-45.118 kips
Axial Load	0.733 kips
Column Force	67.847 kips
Column Moment	-0.581 kips-ft
Eccentric Moment Calculation	Include All Eccentricities
Components	
Column Section	HSS12X8X6
Material	A500 Gr.B RECT
Beam Section	W24X76
Material	A992
Hole Type	STD
Plate Section	P0.38x3.50x18.00
Material	A36
Thickness	0.375 in
Width	3.500 in
Depth	18.000 in
Hole Type	STD
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	6
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Column/Beam Clearance	0.500 in
Plate Vertical Position	1.938 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	1.500 in
Beam Bolts Vert Edge Dist	1.500 in



F1_G21 I - (A-6)_L1: LRFD Results Report

Column/Beam Shear Tab Shear Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Beam	W27X146	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x3.50x21.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	43.50 kips	*User Input Shear Load*
Axial Load	-0.00 kips	*User Input Axial Force*
Column Force	122.69 kips	*User Input Column Force*
Column Moment	0.01 kips-ft	*User Input Column Moment*

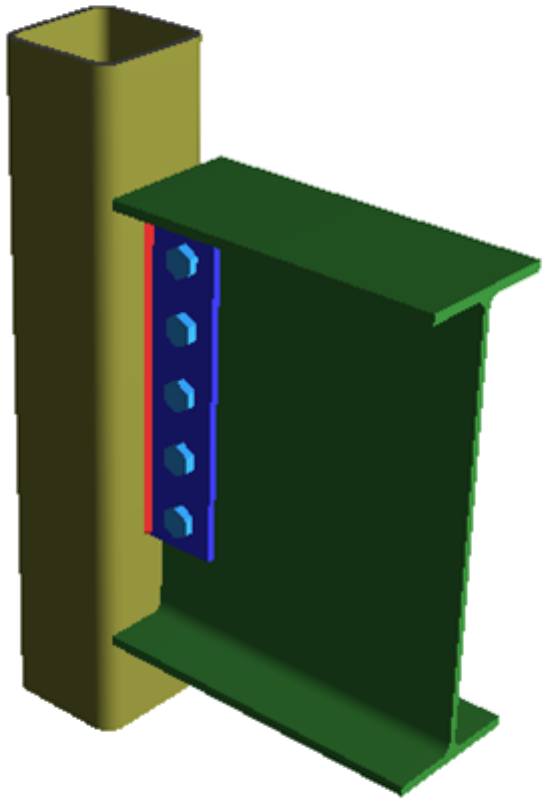
Governing LC: 3D - 7 - IBC 16-3 (b) (c)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
HSS Limitations				**PASS**
Geometry Restrictions at Beam				**PASS**
Column Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	43.50 kips	497.31 kips	**0.09**	**PASS**
Plate Shear Yield	43.50 kips	170.10 kips	**0.26**	**PASS**
Beam Shear Rupture	43.50 kips	376.49 kips	**0.12**	**PASS**
Plate Shear Rupture at Beam	43.50 kips	145.59 kips	**0.30**	**PASS**
Beam Block Shear	43.50 kips	392.37 kips	**0.11**	**PASS**
Plate Block Shear	43.50 kips	135.79 kips	**0.32**	**PASS**
Lateral Stability / Stabilizer Plates	43.50 kips	1174.19 kips	**0.04**	**PASS**
Plate Flexural Yield			**0.07**	**PASS**
Plate Flexural Rupture			**0.09**	**PASS**
Plate Flexural Buckling	43.50 kips	318.71 kips	**0.14**	**PASS**
Bolt Bearing on Beam	43.50 kips	125.25 kips	**0.35**	**PASS**
Bolt Bearing on Plate at Beam	43.50 kips	125.25 kips	**0.35**	**PASS**
Bolt Shear at Beam	43.50 kips	115.98 kips	**0.38**	**PASS**
Bolt Group Eccentricity		***0.93***		
Weld at Column	28.63 kips/ft	133.63 kips/ft	**0.21**	**PASS**
HSS Punching Shear	7.25 kips-ft	111.58 kips-ft	**0.06**	**PASS**

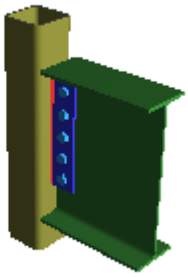
F1_G21 I - (A-6)_L1: Connection Properties Report

Connection	
Connection Title	F1_G21 I - (A-6)_L1
Connection Type	Column/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Column Connection Type	Narrow
Through Plate	No
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	43.499 kips
Axial Load	0.000 kips
Column Force	122.695 kips
Column Moment	0.010 kips-ft
Eccentric Moment Calculation	Include All Eccentricities
Components	
Column Section	HSS6X6X6
Material	A500 Gr.B RECT
Beam Section	W27X146
Material	A992
Hole Type	STD
Plate Section	P0.38x3.50x21.00
Material	A36
Thickness	0.375 in
Width	3.500 in
Depth	21.000 in
Hole Type	STD
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	7
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Column/Beam Clearance	0.500 in
Plate Vertical Position	2.188 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	1.500 in
Beam Bolts Vert Edge Dist	1.500 in



F1_G22 I - (C-5)_L1: LRFD Results Report

Column/Beam Shear Tab Shear Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Beam	W21X44	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x3.50x15.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	22.06 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force (compression)*
Column Force	41.30 kips	*User Input Column Force*
Column Moment	-0.16 kips-ft	*User Input Column Moment*

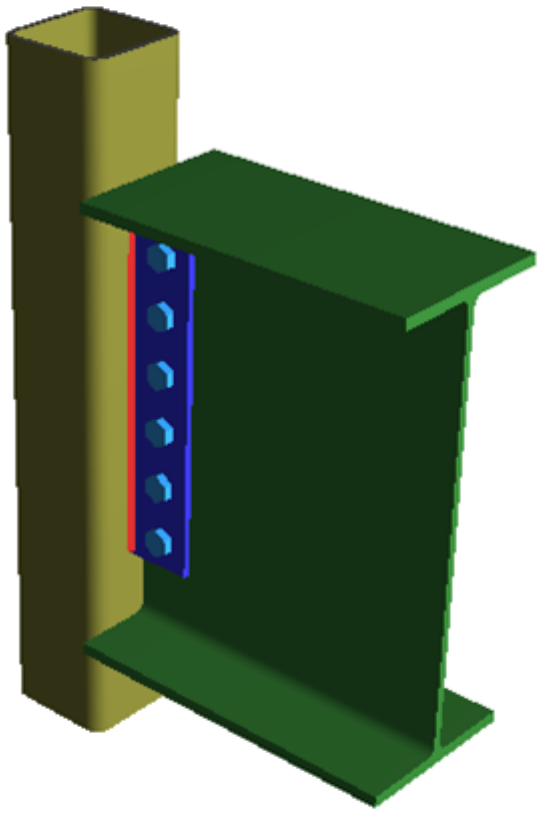
Governing LC: 3D - 7 - IBC 16-3 (b) (c)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
HSS Limitations				**PASS**
Geometry Restrictions at Beam				**PASS**
Column Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	22.06 kips	217.35 kips	**0.10**	**PASS**
Plate Shear Yield	22.06 kips	121.50 kips	**0.18**	**PASS**
Beam Shear Rupture	22.06 kips	167.13 kips	**0.13**	**PASS**
Plate Shear Rupture at Beam	22.06 kips	103.99 kips	**0.21**	**PASS**
Beam Block Shear	22.06 kips	166.63 kips	**0.13**	**PASS**
Plate Block Shear	22.06 kips	99.34 kips	**0.22**	**PASS**
Lateral Stability / Stabilizer Plates	22.06 kips	838.70 kips	**0.03**	**PASS**
Plate Flexural Yield			**0.04**	**PASS**
Plate Flexural Rupture			**0.05**	**PASS**
Plate Flexural Buckling	22.06 kips	163.80 kips	**0.13**	**PASS**
Bolt Bearing on Beam	22.06 kips	89.46 kips	**0.25**	**PASS**
Bolt Bearing on Plate at Beam	22.06 kips	89.46 kips	**0.25**	**PASS**
Bolt Shear at Beam	22.06 kips	78.59 kips	**0.28**	**PASS**
Bolt Group Eccentricity		***0.88***		
Weld at Column	22.60 kips/ft	133.63 kips/ft	**0.17**	**PASS**
HSS Punching Shear	3.68 kips-ft	56.93 kips-ft	**0.06**	**PASS**

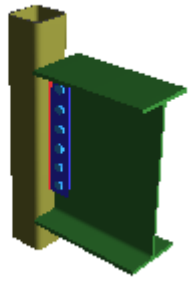
F1_G22 I - (C-5)_L1: Connection Properties Report

Connection	
Connection Title	F1_G22 I - (C-5)_L1
Connection Type	Column/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Column Connection Type	Wide
Through Plate	No
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	22.062 kips
Axial Load	0.003 kips
Column Force	41.299 kips
Column Moment	-0.160 kips-ft
Eccentric Moment Calculation	Include All Eccentricities
Components	
Column Section	HSS6X6X6
Material	A500 Gr.B RECT
Beam Section	W21X44
Material	A992
Hole Type	STD
Plate Section	P0.38x3.50x15.00
Material	A36
Thickness	0.375 in
Width	3.500 in
Depth	15.000 in
Hole Type	STD
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	5
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Column/Beam Clearance	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	1.500 in
Beam Bolts Vert Edge Dist	1.500 in



F1_G23 J - C16_L1: LRFD Results Report

Column/Beam Shear Tab Shear Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Beam	W24X68	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x3.50x18.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-43.99 kips	*User Input Shear Load*
Axial Load	-0.00 kips	*User Input Axial Force (tension)*
Column Force	50.98 kips	*User Input Column Force*
Column Moment	0.02 kips-ft	*User Input Column Moment*

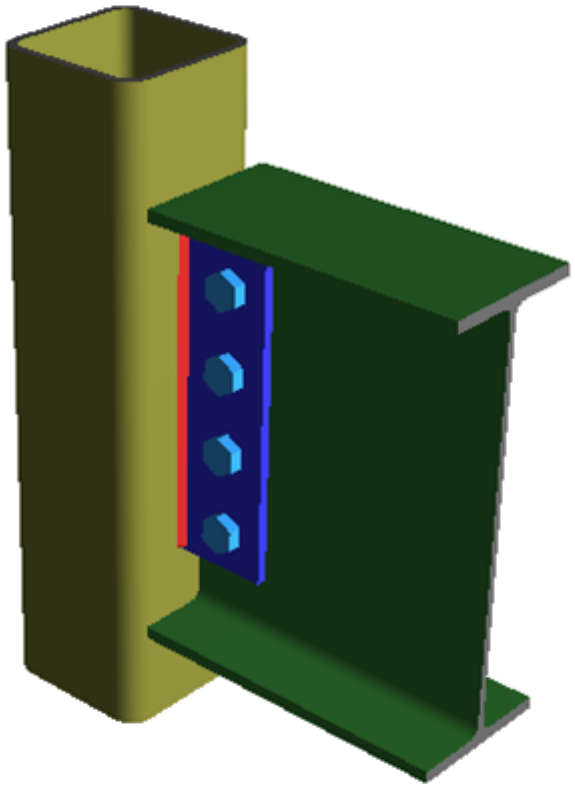
Governing LC: 3D - 7 - IBC 16-3 (b) (c)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
HSS Limitations				**PASS**
Geometry Restrictions at Beam				**PASS**
Column Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	43.99 kips	295.06 kips	**0.15**	**PASS**
Plate Shear Yield	43.99 kips	145.80 kips	**0.30**	**PASS**
Beam Shear Rupture	43.99 kips	223.96 kips	**0.20**	**PASS**
Plate Shear Rupture at Beam	43.99 kips	124.79 kips	**0.35**	**PASS**
Beam Block Shear	43.99 kips	232.56 kips	**0.19**	**PASS**
Plate Block Shear	43.99 kips	117.57 kips	**0.37**	**PASS**
Lateral Stability / Stabilizer Plates	43.99 kips	1006.44 kips	**0.04**	**PASS**
Plate Flexural Yield			**0.10**	**PASS**
Plate Flexural Rupture			**0.13**	**PASS**
Plate Flexural Buckling	43.99 kips	234.80 kips	**0.19**	**PASS**
Bolt Bearing on Beam	43.99 kips	107.35 kips	**0.41**	**PASS**
Bolt Bearing on Plate at Beam	43.99 kips	107.35 kips	**0.41**	**PASS**
Bolt Shear at Beam	43.99 kips	97.43 kips	**0.45**	**PASS**
Bolt Group Eccentricity		***0.91***		
Weld at Column	35.24 kips/ft	133.63 kips/ft	**0.26**	**PASS**
HSS Punching Shear	7.33 kips-ft	81.98 kips-ft	**0.09**	**PASS**

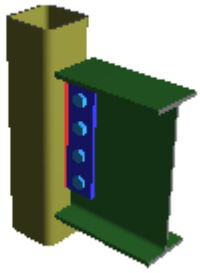
F1_G23 J - C16_L1: Connection Properties Report

Connection	
Connection Title	F1_G23 J - C16_L1
Connection Type	Column/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Column Connection Type	Wide
Through Plate	No
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	-43.986 kips
Axial Load	0.000 kips
Column Force	50.979 kips
Column Moment	0.021 kips-ft
Eccentric Moment Calculation	Include All Eccentricities
Components	
Column Section	HSS6X6X6
Material	A500 Gr.B RECT
Beam Section	W24X68
Material	A992
Hole Type	STD
Plate Section	P0.38x3.50x18.00
Material	A36
Thickness	0.375 in
Width	3.500 in
Depth	18.000 in
Hole Type	STD
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	6
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Column/Beam Clearance	0.500 in
Plate Vertical Position	1.875 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	1.500 in
Beam Bolts Vert Edge Dist	1.500 in



F1_G29 I - C16_L1: LRFD Results Report

Column/Beam Shear Tab Shear Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Beam	W16X31	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x3.50x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	5.01 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force (compression)*
Column Force	50.98 kips	*User Input Column Force*
Column Moment	-0.00 kips-ft	*User Input Column Moment*

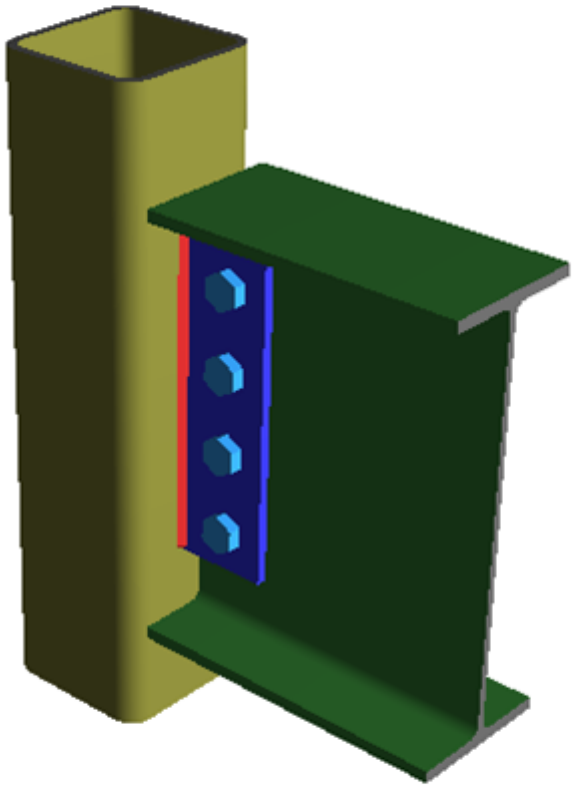
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
HSS Limitations				**PASS**
Geometry Restrictions at Beam				**PASS**
Column Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	5.01 kips	131.18 kips	**0.04**	**PASS**
Plate Shear Yield	5.01 kips	97.20 kips	**0.05**	**PASS**
Beam Shear Rupture	5.01 kips	99.74 kips	**0.05**	**PASS**
Plate Shear Rupture at Beam	5.01 kips	83.19 kips	**0.06**	**PASS**
Beam Block Shear	5.01 kips	118.19 kips	**0.04**	**PASS**
Plate Block Shear	5.01 kips	81.12 kips	**0.06**	**PASS**
Lateral Stability / Stabilizer Plates	5.01 kips	670.96 kips	**0.01**	**PASS**
Plate Flexural Yield			**0.00**	**PASS**
Plate Flexural Rupture			**0.00**	**PASS**
Plate Flexural Buckling	5.01 kips	105.71 kips	**0.05**	**PASS**
Bolt Bearing on Beam	5.01 kips	71.57 kips	**0.07**	**PASS**
Bolt Bearing on Plate at Beam	5.01 kips	71.57 kips	**0.07**	**PASS**
Bolt Shear at Beam	5.01 kips	59.39 kips	**0.08**	**PASS**
Bolt Group Eccentricity		***0.83***		
Weld at Column	7.09 kips/ft	133.63 kips/ft	**0.05**	**PASS**
HSS Punching Shear	0.84 kips-ft	36.44 kips-ft	**0.02**	**PASS**

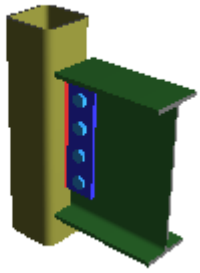
F1_G29 I - C16_L1: Connection Properties Report

Connection	
Connection Title	F1_G29 I - C16_L1
Connection Type	Column/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Column Connection Type	Narrow
Through Plate	No
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	5.012 kips
Axial Load	0.000 kips
Column Force	50.979 kips
Column Moment	-0.002 kips-ft
Eccentric Moment Calculation	Include All Eccentricities
Components	
Column Section	HSS6X6X6
Material	A500 Gr.B RECT
Beam Section	W16X31
Material	A992
Hole Type	STD
Plate Section	P0.38x3.50x12.00
Material	A36
Thickness	0.375 in
Width	3.500 in
Depth	12.000 in
Hole Type	STD
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	4
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Column/Beam Clearance	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	1.500 in
Beam Bolts Vert Edge Dist	1.500 in



F1_G29 J - C15_L1: LRFD Results Report

Column/Beam Shear Tab Shear Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Beam	W16X31	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x3.50x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-5.88 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force (compression)*
Column Force	58.74 kips	*User Input Column Force*
Column Moment	-0.00 kips-ft	*User Input Column Moment*

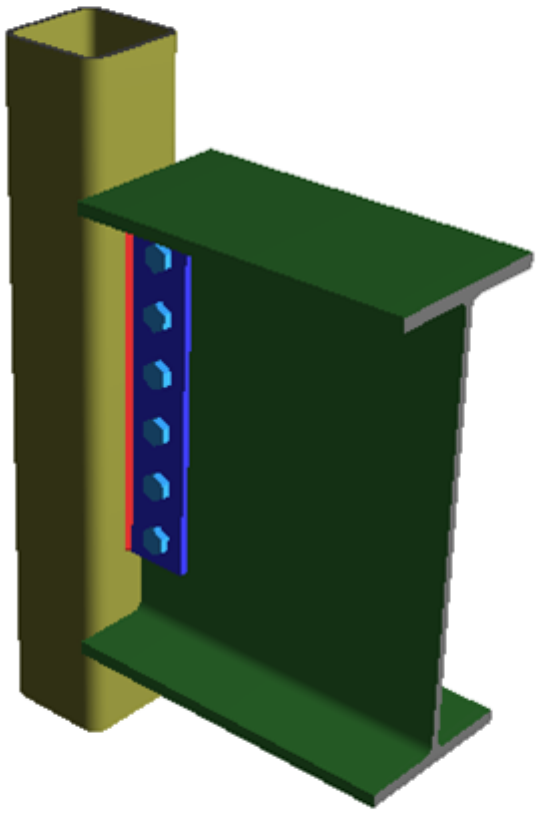
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
HSS Limitations				**PASS**
Geometry Restrictions at Beam				**PASS**
Column Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	5.88 kips	131.18 kips	**0.04**	**PASS**
Plate Shear Yield	5.88 kips	97.20 kips	**0.06**	**PASS**
Beam Shear Rupture	5.88 kips	99.74 kips	**0.06**	**PASS**
Plate Shear Rupture at Beam	5.88 kips	83.19 kips	**0.07**	**PASS**
Beam Block Shear	5.88 kips	118.19 kips	**0.05**	**PASS**
Plate Block Shear	5.88 kips	81.12 kips	**0.07**	**PASS**
Lateral Stability / Stabilizer Plates	5.88 kips	670.96 kips	**0.01**	**PASS**
Plate Flexural Yield			**0.00**	**PASS**
Plate Flexural Rupture			**0.01**	**PASS**
Plate Flexural Buckling	5.88 kips	105.71 kips	**0.06**	**PASS**
Bolt Bearing on Beam	5.88 kips	71.57 kips	**0.08**	**PASS**
Bolt Bearing on Plate at Beam	5.88 kips	71.57 kips	**0.08**	**PASS**
Bolt Shear at Beam	5.88 kips	59.39 kips	**0.10**	**PASS**
Bolt Group Eccentricity		***0.83***		
Weld at Column	8.32 kips/ft	133.63 kips/ft	**0.06**	**PASS**
HSS Punching Shear	0.98 kips-ft	36.44 kips-ft	**0.03**	**PASS**

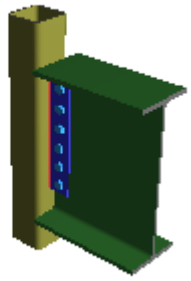
F1_G29 J - C15_L1: Connection Properties Report

Connection	
Connection Title	F1_G29 J - C15_L1
Connection Type	Column/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Column Connection Type	Narrow
Through Plate	No
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	-5.881 kips
Axial Load	0.000 kips
Column Force	58.744 kips
Column Moment	0.000 kips-ft
Eccentric Moment Calculation	Include All Eccentricities
Components	
Column Section	HSS6X6X6
Material	A500 Gr.B RECT
Beam Section	W16X31
Material	A992
Hole Type	STD
Plate Section	P0.38x3.50x12.00
Material	A36
Thickness	0.375 in
Width	3.500 in
Depth	12.000 in
Hole Type	STD
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	4
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Column/Beam Clearance	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	1.500 in
Beam Bolts Vert Edge Dist	1.500 in



F1_G31 I - C15_L1: LRFD Results Report

Column/Beam Shear Tab Shear Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Beam	W24X76	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x3.50x18.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	52.86 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force*
Column Force	58.74 kips	*User Input Column Force*
Column Moment	-0.00 kips-ft	*User Input Column Moment*

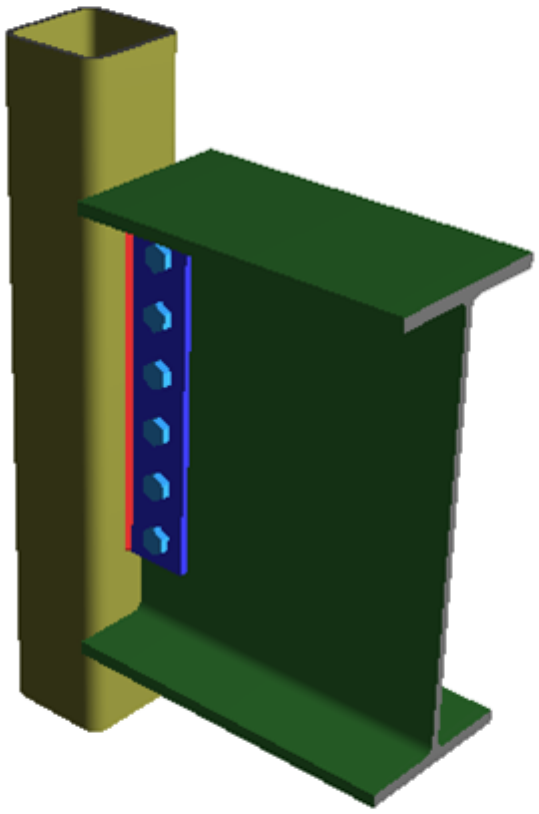
Governing LC: 3D - 7 - IBC 16-3 (b) (c)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
HSS Limitations				**PASS**
Geometry Restrictions at Beam				**PASS**
Column Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	52.86 kips	315.48 kips	**0.17**	**PASS**
Plate Shear Yield	52.86 kips	145.80 kips	**0.36**	**PASS**
Beam Shear Rupture	52.86 kips	240.03 kips	**0.22**	**PASS**
Plate Shear Rupture at Beam	52.86 kips	124.79 kips	**0.42**	**PASS**
Beam Block Shear	52.86 kips	251.22 kips	**0.21**	**PASS**
Plate Block Shear	52.86 kips	117.57 kips	**0.45**	**PASS**
Lateral Stability / Stabilizer Plates	52.86 kips	1006.44 kips	**0.05**	**PASS**
Plate Flexural Yield			**0.14**	**PASS**
Plate Flexural Rupture			**0.19**	**PASS**
Plate Flexural Buckling	52.86 kips	234.80 kips	**0.23**	**PASS**
Bolt Bearing on Beam	52.86 kips	107.35 kips	**0.49**	**PASS**
Bolt Bearing on Plate at Beam	52.86 kips	107.35 kips	**0.49**	**PASS**
Bolt Shear at Beam	52.86 kips	97.43 kips	**0.54**	**PASS**
Bolt Group Eccentricity		***0.91***		
Weld at Column	42.35 kips/ft	133.63 kips/ft	**0.32**	**PASS**
HSS Punching Shear	8.81 kips-ft	81.98 kips-ft	**0.11**	**PASS**

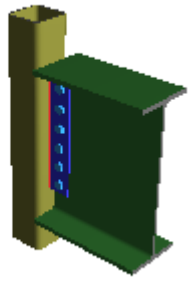
F1_G31 I - C15_L1: Connection Properties Report

Connection	
Connection Title	F1_G31 I - C15_L1
Connection Type	Column/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Column Connection Type	Narrow
Through Plate	No
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	52.858 kips
Axial Load	0.000 kips
Column Force	58.744 kips
Column Moment	0.000 kips-ft
Eccentric Moment Calculation	Include All Eccentricities
Components	
Column Section	HSS6X6X6
Material	A500 Gr.B RECT
Beam Section	W24X76
Material	A992
Hole Type	STD
Plate Section	P0.38x3.50x18.00
Material	A36
Thickness	0.375 in
Width	3.500 in
Depth	18.000 in
Hole Type	STD
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	6
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Column/Beam Clearance	0.500 in
Plate Vertical Position	1.938 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	1.500 in
Beam Bolts Vert Edge Dist	1.500 in



F1_G31 J - (B-7)_L1: LRFD Results Report

Column/Beam Shear Tab Shear Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Beam	W24X76	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x3.50x18.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-23.25 kips	*User Input Shear Load*
Axial Load	-0.00 kips	*User Input Axial Force*
Column Force	77.99 kips	*User Input Column Force*
Column Moment	0.00 kips-ft	*User Input Column Moment*

Governing LC: 3D - 5 - IBC 16-3 (b) (a)

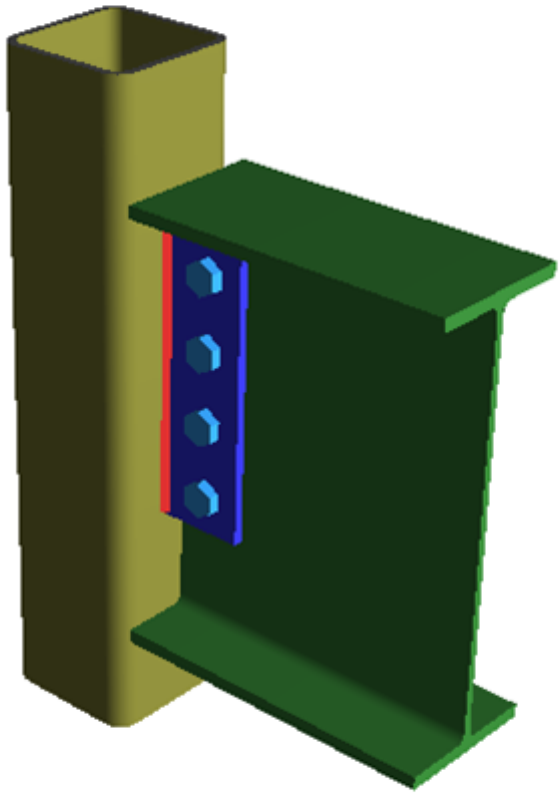
Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
HSS Limitations				**PASS**
Geometry Restrictions at Beam				**PASS**
Column Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	23.25 kips	315.48 kips	**0.07**	**PASS**
Plate Shear Yield	23.25 kips	145.80 kips	**0.16**	**PASS**
Beam Shear Rupture	23.25 kips	240.03 kips	**0.10**	**PASS**
Plate Shear Rupture at Beam	23.25 kips	124.79 kips	**0.19**	**PASS**
Beam Block Shear	23.25 kips	251.22 kips	**0.09**	**PASS**
Plate Block Shear	23.25 kips	117.57 kips	**0.20**	**PASS**
Lateral Stability / Stabilizer Plates	23.25 kips	1006.44 kips	**0.02**	**PASS**
Plate Flexural Yield			**0.03**	**PASS**
Plate Flexural Rupture			**0.04**	**PASS**
Plate Flexural Buckling	23.25 kips	234.80 kips	**0.10**	**PASS**
Bolt Bearing on Beam	23.25 kips	107.35 kips	**0.22**	**PASS**
Bolt Bearing on Plate at Beam	23.25 kips	107.35 kips	**0.22**	**PASS**
Bolt Shear at Beam	23.25 kips	97.43 kips	**0.24**	**PASS**
Bolt Group Eccentricity		***0.91***		
Weld at Column	18.63 kips/ft	133.63 kips/ft	**0.14**	**PASS**
HSS Punching Shear	3.87 kips-ft	81.98 kips-ft	**0.05**	**PASS**

F1_G31 J - (B-7)_L1: Connection Properties Report

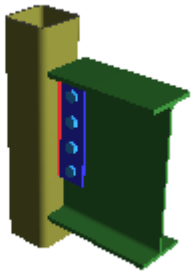
Column/Beam Shear Tab Shear Connection

Connection	
Connection Title	F1_G31 J - (B-7)_L1
Connection Type	Column/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Column Connection Type	Narrow
Through Plate	No
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	-23.249 kips
Axial Load	0.000 kips
Column Force	77.986 kips
Column Moment	0.000 kips-ft
Eccentric Moment Calculation	Include All Eccentricities
Components	
Column Section	HSS6X6X6
Material	A500 Gr.B RECT
Beam Section	W24X76
Material	A992
Hole Type	STD
Plate Section	P0.38x3.50x18.00
Material	A36
Thickness	0.375 in
Width	3.500 in
Depth	18.000 in
Hole Type	STD
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	6
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Column/Beam Clearance	0.500 in
Plate Vertical Position	1.938 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	1.500 in
Beam Bolts Vert Edge Dist	1.500 in



F1_G33 I - (D-7)_L1: LRFD Results Report

Column/Beam Shear Tab Shear Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Beam	W18X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x3.50x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	18.02 kips	*User Input Shear Load*
Axial Load	-0.00 kips	*User Input Axial Force*
Column Force	21.36 kips	*User Input Column Force*
Column Moment	-0.00 kips-ft	*User Input Column Moment*

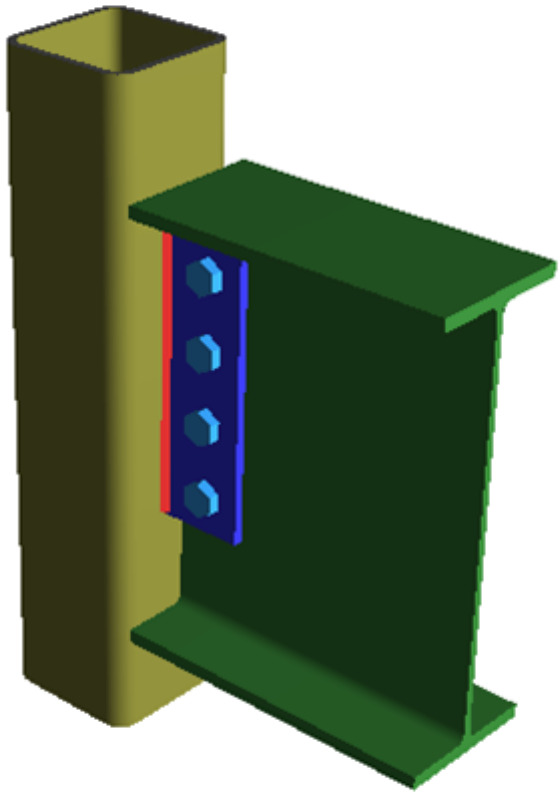
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
HSS Limitations				**PASS**
Geometry Restrictions at Beam				**PASS**
Column Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	18.02 kips	169.16 kips	**0.11**	**PASS**
Plate Shear Yield	18.02 kips	97.20 kips	**0.19**	**PASS**
Beam Shear Rupture	18.02 kips	132.68 kips	**0.14**	**PASS**
Plate Shear Rupture at Beam	18.02 kips	83.19 kips	**0.22**	**PASS**
Beam Block Shear	18.02 kips	136.80 kips	**0.13**	**PASS**
Plate Block Shear	18.02 kips	81.12 kips	**0.22**	**PASS**
Lateral Stability / Stabilizer Plates	18.02 kips	670.96 kips	**0.03**	**PASS**
Plate Flexural Yield			**0.04**	**PASS**
Plate Flexural Rupture			**0.05**	**PASS**
Plate Flexural Buckling	18.02 kips	105.71 kips	**0.17**	**PASS**
Bolt Bearing on Beam	18.02 kips	71.57 kips	**0.25**	**PASS**
Bolt Bearing on Plate at Beam	18.02 kips	71.57 kips	**0.25**	**PASS**
Bolt Shear at Beam	18.02 kips	59.39 kips	**0.30**	**PASS**
Bolt Group Eccentricity		***0.83***		
Weld at Column	25.48 kips/ft	133.63 kips/ft	**0.19**	**PASS**
HSS Punching Shear	3.00 kips-ft	36.44 kips-ft	**0.08**	**PASS**

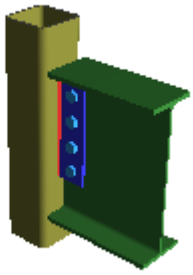
F1_G33 I - (D-7)_L1: Connection Properties Report

Connection	
Connection Title	F1_G33 I - (D-7)_L1
Connection Type	Column/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Column Connection Type	Wide
Through Plate	No
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	18.017 kips
Axial Load	0.000 kips
Column Force	21.360 kips
Column Moment	0.000 kips-ft
Eccentric Moment Calculation	Include All Eccentricities
Components	
Column Section	HSS6X6X6
Material	A500 Gr.B RECT
Beam Section	W18X40
Material	A992
Hole Type	STD
Plate Section	P0.38x3.50x12.00
Material	A36
Thickness	0.375 in
Width	3.500 in
Depth	12.000 in
Hole Type	STD
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	4
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Column/Beam Clearance	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	1.500 in
Beam Bolts Vert Edge Dist	1.500 in



F1_G33 J - (M-D)_L1: LRFD Results Report

Column/Beam Shear Tab Shear Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Beam	W18X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x3.50x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-18.02 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force*
Column Force	36.62 kips	*User Input Column Force*
Column Moment	0.00 kips-ft	*User Input Column Moment*

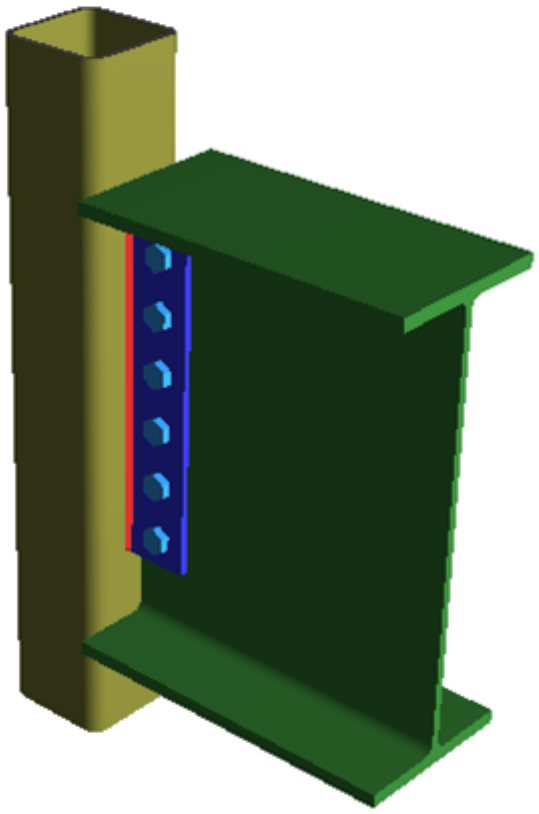
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
HSS Limitations				**PASS**
Geometry Restrictions at Beam				**PASS**
Column Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	18.02 kips	169.16 kips	**0.11**	**PASS**
Plate Shear Yield	18.02 kips	97.20 kips	**0.19**	**PASS**
Beam Shear Rupture	18.02 kips	132.68 kips	**0.14**	**PASS**
Plate Shear Rupture at Beam	18.02 kips	83.19 kips	**0.22**	**PASS**
Beam Block Shear	18.02 kips	136.80 kips	**0.13**	**PASS**
Plate Block Shear	18.02 kips	81.12 kips	**0.22**	**PASS**
Lateral Stability / Stabilizer Plates	18.02 kips	670.96 kips	**0.03**	**PASS**
Plate Flexural Yield			**0.04**	**PASS**
Plate Flexural Rupture			**0.05**	**PASS**
Plate Flexural Buckling	18.02 kips	105.71 kips	**0.17**	**PASS**
Bolt Bearing on Beam	18.02 kips	71.57 kips	**0.25**	**PASS**
Bolt Bearing on Plate at Beam	18.02 kips	71.57 kips	**0.25**	**PASS**
Bolt Shear at Beam	18.02 kips	59.39 kips	**0.30**	**PASS**
Bolt Group Eccentricity		***0.83***		
Weld at Column	25.48 kips/ft	133.63 kips/ft	**0.19**	**PASS**
HSS Punching Shear	3.00 kips-ft	36.44 kips-ft	**0.08**	**PASS**

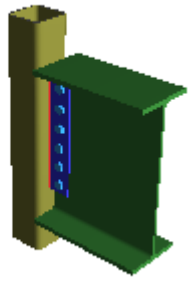
F1_G33 J - (M-D)_L1: Connection Properties Report

Connection	
Connection Title	F1_G33 J - (M-D)_L1
Connection Type	Column/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Column Connection Type	Wide
Through Plate	No
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	-18.018 kips
Axial Load	0.000 kips
Column Force	36.625 kips
Column Moment	0.000 kips-ft
Eccentric Moment Calculation	Include All Eccentricities
Components	
Column Section	HSS6X6X6
Material	A500 Gr.B RECT
Beam Section	W18X40
Material	A992
Hole Type	STD
Plate Section	P0.38x3.50x12.00
Material	A36
Thickness	0.375 in
Width	3.500 in
Depth	12.000 in
Hole Type	STD
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	4
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Column/Beam Clearance	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	1.500 in
Beam Bolts Vert Edge Dist	1.500 in



F1_G37 I - (A-6)_L1: LRFD Results Report

Column/Beam Shear Tab Shear Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Beam	W24X76	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x3.50x18.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	51.80 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force (compression)*
Column Force	122.69 kips	*User Input Column Force*
Column Moment	0.06 kips-ft	*User Input Column Moment*

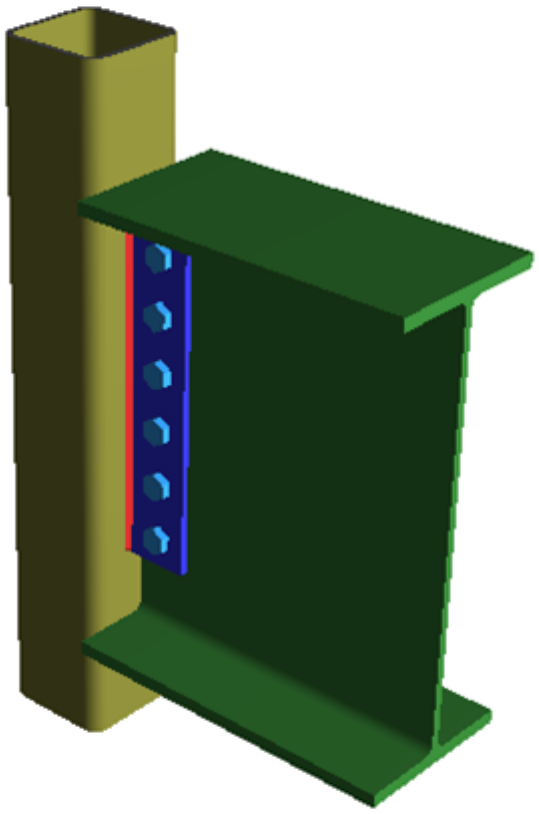
Governing LC: 3D - 7 - IBC 16-3 (b) (c)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
HSS Limitations				**PASS**
Geometry Restrictions at Beam				**PASS**
Column Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	51.80 kips	315.48 kips	**0.16**	**PASS**
Plate Shear Yield	51.80 kips	145.80 kips	**0.36**	**PASS**
Beam Shear Rupture	51.80 kips	240.03 kips	**0.22**	**PASS**
Plate Shear Rupture at Beam	51.80 kips	124.79 kips	**0.42**	**PASS**
Beam Block Shear	51.80 kips	251.22 kips	**0.21**	**PASS**
Plate Block Shear	51.80 kips	117.57 kips	**0.44**	**PASS**
Lateral Stability / Stabilizer Plates	51.80 kips	1006.44 kips	**0.05**	**PASS**
Plate Flexural Yield			**0.14**	**PASS**
Plate Flexural Rupture			**0.18**	**PASS**
Plate Flexural Buckling	51.80 kips	234.80 kips	**0.22**	**PASS**
Bolt Bearing on Beam	51.80 kips	107.35 kips	**0.48**	**PASS**
Bolt Bearing on Plate at Beam	51.80 kips	107.35 kips	**0.48**	**PASS**
Bolt Shear at Beam	51.80 kips	97.43 kips	**0.53**	**PASS**
Bolt Group Eccentricity		***0.91***		
Weld at Column	41.51 kips/ft	133.63 kips/ft	**0.31**	**PASS**
HSS Punching Shear	8.63 kips-ft	81.98 kips-ft	**0.11**	**PASS**

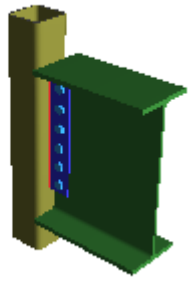
F1_G37 I - (A-6)_L1: Connection Properties Report

Connection	
Connection Title	F1_G37 I - (A-6)_L1
Connection Type	Column/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Column Connection Type	Wide
Through Plate	No
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	51.805 kips
Axial Load	0.002 kips
Column Force	122.695 kips
Column Moment	0.059 kips-ft
Eccentric Moment Calculation	Include All Eccentricities
Components	
Column Section	HSS6X6X6
Material	A500 Gr.B RECT
Beam Section	W24X76
Material	A992
Hole Type	STD
Plate Section	P0.38x3.50x18.00
Material	A36
Thickness	0.375 in
Width	3.500 in
Depth	18.000 in
Hole Type	STD
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	6
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Column/Beam Clearance	0.500 in
Plate Vertical Position	1.938 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	1.500 in
Beam Bolts Vert Edge Dist	1.500 in



F1_G38 I - (B-7)_L1: LRFD Results Report

Column/Beam Shear Tab Shear Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Beam	W24X76	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x3.50x18.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	51.39 kips	*User Input Shear Load*
Axial Load	-0.00 kips	*User Input Axial Force (tension)*
Column Force	77.99 kips	*User Input Column Force*
Column Moment	0.00 kips-ft	*User Input Column Moment*

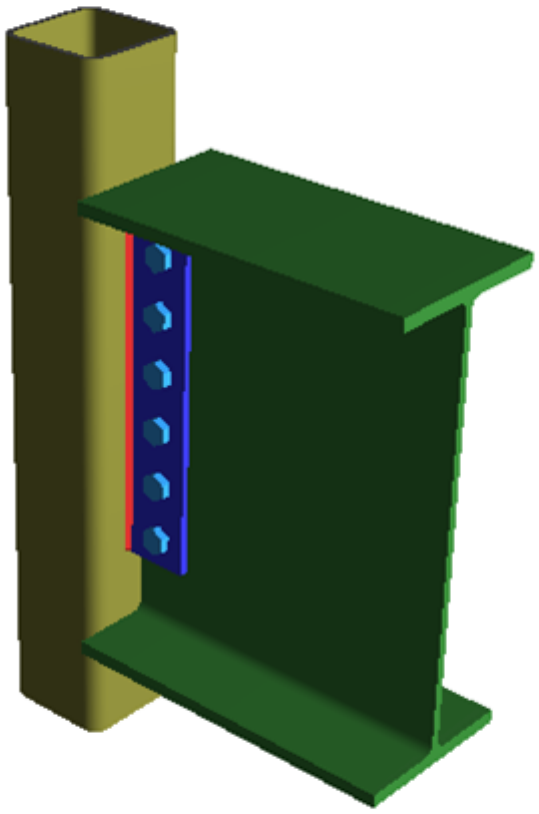
Governing LC: 3D - 7 - IBC 16-3 (b) (c)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
HSS Limitations				**PASS**
Geometry Restrictions at Beam				**PASS**
Column Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	51.39 kips	315.48 kips	**0.16**	**PASS**
Plate Shear Yield	51.39 kips	145.80 kips	**0.35**	**PASS**
Beam Shear Rupture	51.39 kips	240.03 kips	**0.21**	**PASS**
Plate Shear Rupture at Beam	51.39 kips	124.79 kips	**0.41**	**PASS**
Beam Block Shear	51.39 kips	251.22 kips	**0.20**	**PASS**
Plate Block Shear	51.39 kips	117.57 kips	**0.44**	**PASS**
Lateral Stability / Stabilizer Plates	51.39 kips	1006.44 kips	**0.05**	**PASS**
Plate Flexural Yield			**0.14**	**PASS**
Plate Flexural Rupture			**0.18**	**PASS**
Plate Flexural Buckling	51.39 kips	234.80 kips	**0.22**	**PASS**
Bolt Bearing on Beam	51.39 kips	107.35 kips	**0.48**	**PASS**
Bolt Bearing on Plate at Beam	51.39 kips	107.35 kips	**0.48**	**PASS**
Bolt Shear at Beam	51.39 kips	97.43 kips	**0.53**	**PASS**
Bolt Group Eccentricity		***0.91***		
Weld at Column	41.18 kips/ft	133.63 kips/ft	**0.31**	**PASS**
HSS Punching Shear	8.56 kips-ft	81.98 kips-ft	**0.10**	**PASS**

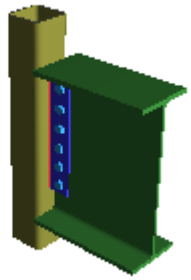
F1_G38 I - (B-7)_L1: Connection Properties Report

Connection	
Connection Title	F1_G38 I - (B-7)_L1
Connection Type	Column/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Column Connection Type	Wide
Through Plate	No
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	51.390 kips
Axial Load	-0.003 kips
Column Force	77.986 kips
Column Moment	0.000 kips-ft
Eccentric Moment Calculation	Include All Eccentricities
Components	
Column Section	HSS6X6X6
Material	A500 Gr.B RECT
Beam Section	W24X76
Material	A992
Hole Type	STD
Plate Section	P0.38x3.50x18.00
Material	A36
Thickness	0.375 in
Width	3.500 in
Depth	18.000 in
Hole Type	STD
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	6
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Column/Beam Clearance	0.500 in
Plate Vertical Position	1.938 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	1.500 in
Beam Bolts Vert Edge Dist	1.500 in



F1_G38 J - (B-6)_L1: LRFD Results Report

Column/Beam Shear Tab Shear Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Beam	W24X76	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x3.50x18.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-66.83 kips	*User Input Shear Load*
Axial Load	1.93 kips	*User Input Axial Force (compression)*
Column Force	98.84 kips	*User Input Column Force*
Column Moment	0.00 kips-ft	*User Input Column Moment*

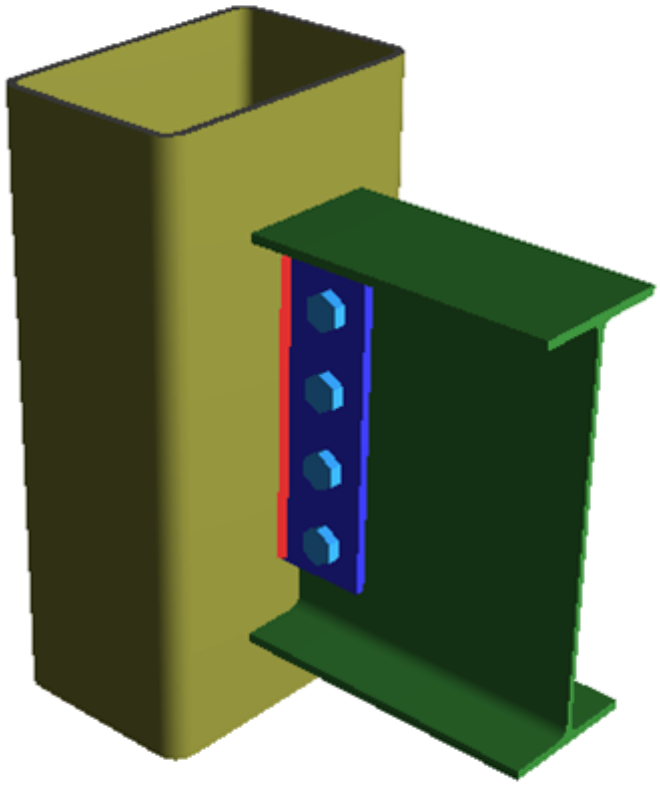
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
HSS Limitations				**PASS**
Geometry Restrictions at Beam				**PASS**
Column Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	66.83 kips	315.48 kips	**0.21**	**PASS**
Plate Shear Yield	66.83 kips	145.80 kips	**0.46**	**PASS**
Beam Shear Rupture	66.83 kips	240.03 kips	**0.28**	**PASS**
Plate Shear Rupture at Beam	66.83 kips	124.79 kips	**0.54**	**PASS**
Beam Block Shear	66.83 kips	251.22 kips	**0.27**	**PASS**
Plate Block Shear	66.83 kips	117.57 kips	**0.57**	**PASS**
Lateral Stability / Stabilizer Plates	66.83 kips	1006.44 kips	**0.07**	**PASS**
Plate Flexural Yield			**0.23**	**PASS**
Plate Flexural Rupture			**0.31**	**PASS**
Plate Flexural Buckling	66.83 kips	234.80 kips	**0.28**	**PASS**
Bolt Bearing on Beam	66.83 kips	107.35 kips	**0.62**	**PASS**
Bolt Bearing on Plate at Beam	66.83 kips	107.35 kips	**0.62**	**PASS**
Bolt Shear at Beam	66.83 kips	97.43 kips	**0.69**	**PASS**
Bolt Group Eccentricity		***0.91***		
Weld at Column	53.54 kips/ft	133.63 kips/ft	**0.40**	**PASS**
HSS Punching Shear	11.14 kips-ft	81.98 kips-ft	**0.14**	**PASS**

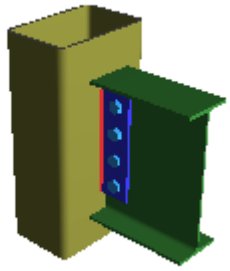
F1_G38 J - (B-6)_L1: Connection Properties Report

Connection	
Connection Title	F1_G38 J - (B-6)_L1
Connection Type	Column/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Column Connection Type	Wide
Through Plate	No
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	-66.828 kips
Axial Load	1.931 kips
Column Force	98.844 kips
Column Moment	0.000 kips-ft
Eccentric Moment Calculation	Include All Eccentricities
Components	
Column Section	HSS6X6X6
Material	A500 Gr.B RECT
Beam Section	W24X76
Material	A992
Hole Type	STD
Plate Section	P0.38x3.50x18.00
Material	A36
Thickness	0.375 in
Width	3.500 in
Depth	18.000 in
Hole Type	STD
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	6
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Column/Beam Clearance	0.500 in
Plate Vertical Position	1.938 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	1.500 in
Beam Bolts Vert Edge Dist	1.500 in



M234 I - M222: LRFD Results Report

Column/Beam Shear Tab Shear Connection



Material Properties:				
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Beam	W16X26	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x3.50x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	5.28 kips	*User Input Shear Load*
Axial Load	-0.00 kips	*User Input Axial Force (tension)*
Column Force	17.81 kips	*User Input Column Force*
Column Moment	-1.36 kips-ft	*User Input Column Moment*

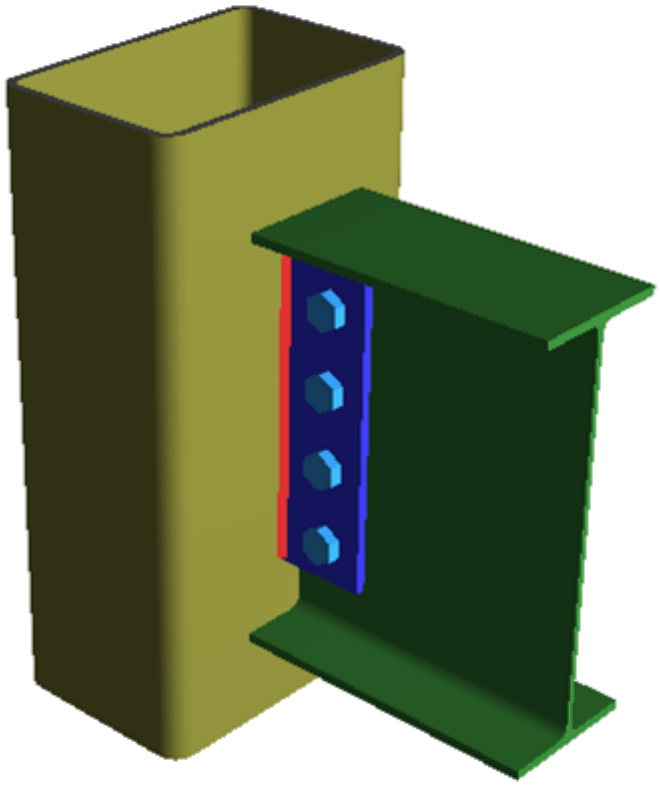
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
HSS Limitations				**PASS**
Geometry Restrictions at Beam				**PASS**
Column Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	5.28 kips	105.97 kips	**0.05**	**PASS**
Plate Shear Yield	5.28 kips	97.20 kips	**0.05**	**PASS**
Beam Shear Rupture	5.28 kips	89.21 kips	**0.06**	**PASS**
Plate Shear Rupture at Beam	5.28 kips	83.19 kips	**0.06**	**PASS**
Beam Block Shear	5.28 kips	103.74 kips	**0.05**	**PASS**
Plate Block Shear	5.28 kips	81.12 kips	**0.07**	**PASS**
Lateral Stability / Stabilizer Plates	5.28 kips	670.96 kips	**0.01**	**PASS**
Plate Flexural Yield			**0.00**	**PASS**
Plate Flexural Rupture			**0.00**	**PASS**
Plate Flexural Buckling	5.28 kips	105.71 kips	**0.05**	**PASS**
Bolt Bearing on Beam	5.28 kips	71.57 kips	**0.07**	**PASS**
Bolt Bearing on Plate at Beam	5.28 kips	71.57 kips	**0.07**	**PASS**
Bolt Shear at Beam	5.28 kips	59.39 kips	**0.09**	**PASS**
Bolt Group Eccentricity		***0.83***		
Weld at Column	7.47 kips/ft	133.63 kips/ft	**0.06**	**PASS**
HSS Punching Shear	0.88 kips-ft	36.44 kips-ft	**0.02**	**PASS**

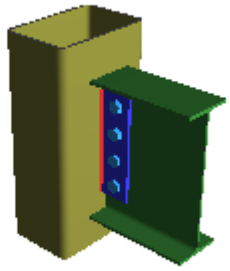
M234 I - M222: Connection Properties Report

Connection	
Connection Title	M234 I - M222
Connection Type	Column/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Column Connection Type	Wide
Through Plate	No
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	5.280 kips
Axial Load	-0.001 kips
Column Force	17.807 kips
Column Moment	-1.361 kips-ft
Eccentric Moment Calculation	Include All Eccentricities
Components	
Column Section	HSS12X8X6
Material	A500 Gr.B RECT
Beam Section	W16X26
Material	A992
Hole Type	STD
Plate Section	P0.38x3.50x12.00
Material	A36
Thickness	0.375 in
Width	3.500 in
Depth	12.000 in
Hole Type	STD
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	4
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Column/Beam Clearance	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	1.500 in
Beam Bolts Vert Edge Dist	1.500 in



M234 J - M221: LRFD Results Report

Column/Beam Shear Tab Shear Connection



Material Properties:				
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Beam	W16X26	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x3.50x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-7.24 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force (compression)*
Column Force	9.15 kips	*User Input Column Force*
Column Moment	-0.51 kips-ft	*User Input Column Moment*

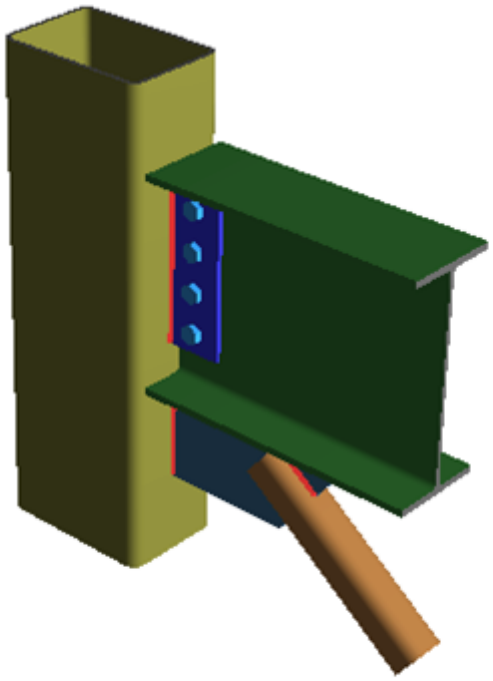
Governing LC: 3D - 5 - IBC 16-3 (b) (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
HSS Limitations				**PASS**
Geometry Restrictions at Beam				**PASS**
Column Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	7.24 kips	105.97 kips	**0.07**	**PASS**
Plate Shear Yield	7.24 kips	97.20 kips	**0.07**	**PASS**
Beam Shear Rupture	7.24 kips	89.21 kips	**0.08**	**PASS**
Plate Shear Rupture at Beam	7.24 kips	83.19 kips	**0.09**	**PASS**
Beam Block Shear	7.24 kips	103.74 kips	**0.07**	**PASS**
Plate Block Shear	7.24 kips	81.12 kips	**0.09**	**PASS**
Lateral Stability / Stabilizer Plates	7.24 kips	670.96 kips	**0.01**	**PASS**
Plate Flexural Yield			**0.01**	**PASS**
Plate Flexural Rupture			**0.01**	**PASS**
Plate Flexural Buckling	7.24 kips	105.71 kips	**0.07**	**PASS**
Bolt Bearing on Beam	7.24 kips	71.57 kips	**0.10**	**PASS**
Bolt Bearing on Plate at Beam	7.24 kips	71.57 kips	**0.10**	**PASS**
Bolt Shear at Beam	7.24 kips	59.39 kips	**0.12**	**PASS**
Bolt Group Eccentricity		***0.83***		
Weld at Column	10.24 kips/ft	133.63 kips/ft	**0.08**	**PASS**
HSS Punching Shear	1.21 kips-ft	36.44 kips-ft	**0.03**	**PASS**

M234 J - M221: Connection Properties Report

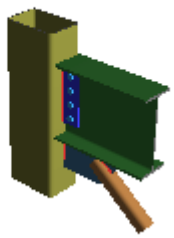
Connection	
Connection Title	M234 J - M221
Connection Type	Column/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Column Connection Type	Wide
Through Plate	No
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	-7.239 kips
Axial Load	0.001 kips
Column Force	9.154 kips
Column Moment	-0.514 kips-ft
Eccentric Moment Calculation	Include All Eccentricities
Components	
Column Section	HSS12X8X6
Material	A500 Gr.B RECT
Beam Section	W16X26
Material	A992
Hole Type	STD
Plate Section	P0.38x3.50x12.00
Material	A36
Thickness	0.375 in
Width	3.500 in
Depth	12.000 in
Hole Type	STD
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	4
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Column/Beam Clearance	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	1.500 in
Beam Bolts Vert Edge Dist	1.500 in



M12 I: Summary Report

LRFD

Vertical Brace Diagonal Connection



Material Properties:				
Beam	W16X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Bottom Brace	HSS3X3X6	A500 Gr.C RECT	F_y = 50.00 ksi	F_u = 62.00 ksi
Bottom Gusset	P0.38x8.00x15.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	1.40 kips	*User Input Shear Load*
Beam Axial Load	-5.21 kips	*User Input Beam Axial Force*
Column Force	19.69 kips	*User Input Column Force*
Axial Transfer Force	0.00 kips	*Required axial transfer force from connected horizontal braces*
Shear Transfer Force	0.00 kips	*Required shear transfer force from connected horizontal braces*
Column Moment	-0.11 kips-ft	*User Input Column Moment*
Bottom Brace Axial	0.00 kips	*User Input Bottom Brace Axial Force*

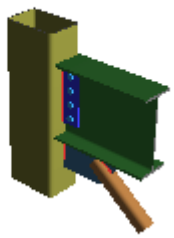
Governing LC: 3D - 13 - IBC 16-4 (a) (a)

Note: Unless specified, all code references are from AISC 360-16

Connection	Required	Max Unity Check	Result
Beam/Column connection	HSS Column Transverse Plastification	**0.12**	**PASS**
Bottom Gusset/Beam connection	Plate Shear Yield	**0.00**	**PASS**
Bottom Gusset/Column connection	Plate Shear Yield	**0.00**	**PASS**
Bottom Gusset/Brace connection	Gusset Plate Compression (Whitmore)	**0.00**	**PASS**

M12 I: Beam/Column Report

Vertical Brace Diagonal Connection



Material Properties:				
Beam	W16X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Bottom Brace	HSS3X3X6	A500 Gr.C RECT	F_y = 50.00 ksi	F_u = 62.00 ksi
Bottom Gusset	P0.38x8.00x15.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Total Shear Load	1.40 kips	*Calculated Shear Load*
Total Axial Load	-5.21 kips	*Calculated Axial Load (tension)*
Column Force	19.69 kips	*User Input Column Force*
Column Moment	-0.11 kips-ft	*User Input Column Moment*

Governing LC: 3D - 13 - IBC 16-4 (a) (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Required Load Calculation				**n/a**
HSS Limitations				**PASS**
Geometry Restrictions at Beam				**PASS**
Column Weld Limitations				**PASS**
Beam Shear Yield	1.40 kips	146.40 kips	**0.01**	**PASS**
Plate Shear Yield	1.40 kips	97.20 kips	**0.01**	**PASS**
Beam Shear Rupture	1.40 kips	111.52 kips	**0.01**	**PASS**
Plate Shear Rupture at Beam	1.40 kips	83.19 kips	**0.02**	**PASS**
Beam Axial Yield	5.21 kips	531.00 kips	**0.01**	**PASS**
Plate Axial Yield	5.21 kips	145.80 kips	**0.04**	**PASS**
Beam Tension Rupture	5.21 kips	202.72 kips	**0.03**	**PASS**
Plate Tension Rupture	5.21 kips	138.66 kips	**0.04**	**PASS**
Beam Block Shear	1.40 kips	132.24 kips	**0.01**	**PASS**
Plate Block Shear at Beam	1.40 kips	89.28 kips	**0.02**	**PASS**
Beam Tearout	5.21 kips	113.75 kips	**0.05**	**PASS**
Plate Tearout on Plate at Beam	5.21 kips	128.29 kips	**0.04**	**PASS**
Plate Flexural Yield			**0.00**	**PASS**
Plate Flexural Rupture			**0.00**	**PASS**
Plate Flexural Buckling	1.40 kips	105.71 kips	**0.01**	**PASS**
Bolt Bearing on Beam	5.39 kips	71.57 kips	**0.08**	**PASS**
Bolt Bearing on Plate at Beam	5.39 kips	71.57 kips	**0.08**	**PASS**
Bolt Shear at Beam	5.39 kips	62.94 kips	**0.09**	**PASS**

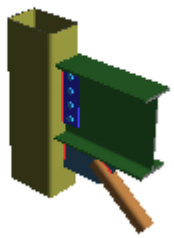
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M12 I: Beam/Column Report (continued):

Limit State	Required	Available	Unity Check	Result
Bolt Group Eccentricity		***0.88***		
Weld at Column	6.66 kips/ft	133.63 kips/ft	**0.05**	**PASS**
HSS Column Transverse Plastification	5.21 kips	43.83 kips	**0.12**	**PASS**

M12 I: Bot Gusset/Beam Report

Vertical Brace Diagonal Connection



Material Properties:				
Beam	W16X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Bottom Brace	HSS3X3X6	A500 Gr.C RECT	F_y = 50.00 ksi	F_u = 62.00 ksi
Bottom Gusset	P0.38x8.00x15.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	0.00 kips	*Calculated Shear Load*
Axial Load	0.00 kips	*Calculated Axial Load*
Moment Load	0.00 kips-ft	*Calculated Moment*

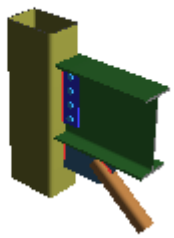
Governing LC: 3D - 13 - IBC 16-4 (a) (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Required Load Calculation				**n/a**
Beam Weld Limitations				**PASS**
Plate Shear Yield	0.00 kips	121.50 kips	**0.00**	**PASS**
Plate Shear Rupture	0.00 kips	146.81 kips	**0.00**	**PASS**
Plate Flexural Yield			**0.00**	**PASS**
Plate Flexural Rupture			**0.00**	**PASS**
Beam Weld Strength	0.00 kips	129.18 kips	**0.00**	**PASS**

M12 I: Bot Gusset/Col Report

Vertical Brace Diagonal Connection



Material Properties:				
Beam	W16X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Bottom Brace	HSS3X3X6	A500 Gr.C RECT	F_y = 50.00 ksi	F_u = 62.00 ksi
Bottom Gusset	P0.38x8.00x15.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	0.00 kips	*Calculated Shear Load*
Axial Load	0.00 kips	*Calculated Axial Load*
Moment Load	0.00 kips-ft	*Calculated Moment*

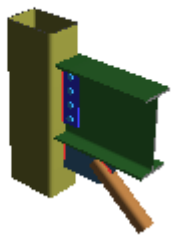
Governing LC: 3D - 13 - IBC 16-4 (a) (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Required Load Calculation				**n/a**
HSS Limitations				**PASS**
Column Weld Limitations				**PASS**
Plate Shear Yield	0.00 kips	64.80 kips	**0.00**	**PASS**
Plate Shear Rupture	0.00 kips	78.30 kips	**0.00**	**PASS**
Plate Flexural Yield			**0.00**	**PASS**
Plate Flexural Rupture			**0.00**	**PASS**
Column Weld Strength	0.00 kips	71.27 kips	**0.00**	**PASS**

M12 I: Bot Gusset/Brace Report

Vertical Brace Diagonal Connection



Material Properties:				
Beam	W16X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Bottom Brace	HSS3X3X6	A500 Gr.C RECT	F_y = 50.00 ksi	F_u = 62.00 ksi
Bottom Gusset	P0.38x8.00x15.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Brace Axial	0.00 kips	*Brace Axial*

Governing LC: 3D - 13 - IBC 16-4 (a) (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Brace Weld Limitations				**PASS**
Gusset Plate Compression (Whitmore)	0.00 kips	92.57 kips	**0.00**	**PASS**
Brace Weld Strength	0.00 kips	89.09 kips	**0.00**	**PASS**

General

Connection	
Connection Title	M12 I
Connection Type	Vertical Brace Diagonal Connection
Seismic Detailing	
Seismic System	None
Connection Category	
Braces	Below
Column Connection Type	Narrow
Loading (LRFD)	
Custom?	No
Shear Load	1.402 kips
Beam Axial Load	-5.206 kips
Column Force	19.687 kips
Axial Transfer Force	0.000 kips
Shear Transfer Force	0.000 kips
Column Moment	-0.106 kips-ft
Bottom Brace Axial	0.000 kips
Qf	1.000 Coeff
Components	
Beam Section	W16X40
Material	A992
Web Hole Type	STD
Column Section	HSS12X8X6
Material	A500 Gr.B RECT
Bottom Brace Section	HSS3X3X6
Material	A500 Gr.C RECT
Member Orientation	Long Side Vertical
Assembly	
Auto-Update Connections	No
Bottom Brace Angle from Vertical	52.561
Workpoint Location	Concentric

Beam

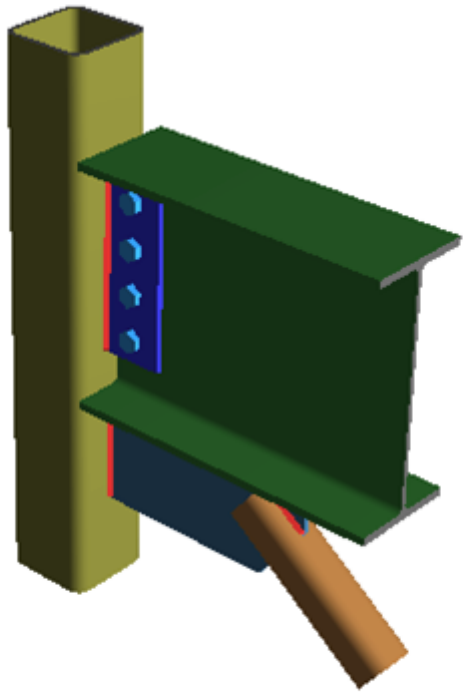
Beam-Column Connection Components	
Type	Shear Tab
Beam Fastener Type	Bolted
Plate Section	P0.38x4.00x12.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	12.000 in
Hole Type	STD
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	4
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in

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Slip Critical	No
Assembly	
Column/Beam Clearance	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Beam Bolts Vert Edge Dist	1.500 in

Bottom Brace

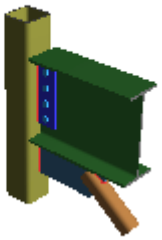
Components	
Bottom Gusset	P0.38x8.00x15.00
Material	A36
Tapered ?	No
Thickness	0.375 in
Width	8.000 in
Length	15.000 in
Width to Length Ratio	Unlimited
Bottom Gusset-Brace Connection	
Connection Type	Slotted Around Gusset
Brace Gusset Weld	E70
Type	Fillet
Fillet Size	4.000 Sixteenths
Bottom Gusset-Beam Connection	
Type	Direct Weld
Beam Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Bottom Gusset-Column Connection	
Type	Direct Weld
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Assembly	
Brace Min Clearance	1.751 in
Brace WorkPoint Distance	18.000 in
Brace/Gusset Overlap	4.000 in
Gusset/Column Gap	0.000 in
Gusset/Beam Gap	0.000 in
Gusset Clip	
Vertical Clip	7.239 in
Horizontal Clip	5.542 in
Brace/Clip Edge Dist	1.807 in



M13 I: Summary Report

LRFD

Vertical Brace Diagonal Connection



Material Properties:				
Beam	W16X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Bottom Brace	HSS3X3X6	A500 Gr.C RECT	F_y = 50.00 ksi	F_u = 62.00 ksi
Bottom Gusset	P0.38x8.00x15.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-1.08 kips	*User Input Shear Load*
Beam Axial Load	5.93 kips	*User Input Beam Axial Force*
Column Force	16.20 kips	*User Input Column Force*
Axial Transfer Force	0.00 kips	*Required axial transfer force from connected horizontal braces*
Shear Transfer Force	0.00 kips	*Required shear transfer force from connected horizontal braces*
Column Moment	-0.00 kips-ft	*User Input Column Moment*
Bottom Brace Axial	-9.05 kips	*User Input Bottom Brace Axial Force (tension)*

Governing LC: 3D - 21 - IBC 16-6 (a)

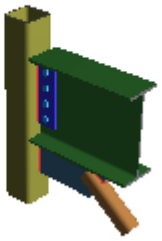
Note: Unless specified, all code references are from AISC 360-16

Connection	Required	Max Unity Check	Result
Beam/Column connection	HSS Column Transverse Plastification	**0.08**	**PASS**
Bottom Gusset/Beam connection	Beam Weld Strength	**0.09**	**PASS**
Bottom Gusset/Column connection	Column Weld Strength	**0.05**	**PASS**
Bottom Gusset/Brace connection	Brace Weld Strength	**0.12**	**PASS**

M13 I: Beam/Column Report

LRFD

Vertical Brace Diagonal Connection



Material Properties:				
Beam	W16X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Bottom Brace	HSS3X3X6	A500 Gr.C RECT	F_y = 50.00 ksi	F_u = 62.00 ksi
Bottom Gusset	P0.38x8.00x15.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Total Shear Load	3.03 kips	*Calculated Shear Load*
Total Axial Load	4.39 kips	*Calculated Axial Load (compression)*
Column Force	16.20 kips	*User Input Column Force*
Column Moment	-0.00 kips-ft	*User Input Column Moment*

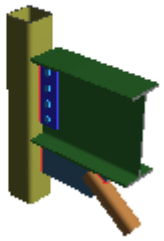
Governing LC: 3D - 21 - IBC 16-6 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Required Load Calculation				**n/a**
HSS Limitations				**PASS**
Geometry Restrictions at Beam				**PASS**
Column Weld Limitations				**PASS**
Beam Shear Yield	3.03 kips	146.40 kips	**0.02**	**PASS**
Plate Shear Yield	3.03 kips	97.20 kips	**0.03**	**PASS**
Beam Shear Rupture	3.03 kips	111.52 kips	**0.03**	**PASS**
Plate Shear Rupture at Beam	3.03 kips	83.19 kips	**0.04**	**PASS**
Beam Axial Yield	4.39 kips	531.00 kips	**0.01**	**PASS**
Plate Axial Yield	4.39 kips	145.80 kips	**0.03**	**PASS**
Beam Block Shear	3.03 kips	132.24 kips	**0.02**	**PASS**
Plate Block Shear at Beam	3.03 kips	89.28 kips	**0.03**	**PASS**
Compression Buckling of the Plate	4.39 kips	145.80 kips	**0.03**	**PASS**
Plate Flexural Yield			**0.00**	**PASS**
Plate Flexural Rupture			**0.00**	**PASS**
Plate Flexural Buckling			**0.06**	**PASS**
Bolt Bearing on Beam	5.33 kips	71.57 kips	**0.07**	**PASS**
Bolt Bearing on Plate at Beam	5.33 kips	71.57 kips	**0.07**	**PASS**
Bolt Shear at Beam	5.33 kips	66.76 kips	**0.08**	**PASS**
Bolt Group Eccentricity		***0.93***		
Weld at Column	5.33 kips	133.63 kips	**0.04**	**PASS**
HSS Column Transverse Plastification	4.39 kips	53.61 kips	**0.08**	**PASS**

M13 I: Bot Gusset/Beam Report

Vertical Brace Diagonal Connection



Material Properties:				
Beam	W16X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Bottom Brace	HSS3X3X6	A500 Gr.C RECT	F_y = 50.00 ksi	F_u = 62.00 ksi
Bottom Gusset	P0.38x8.00x15.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-5.65 kips	*Calculated Shear Load*
Axial Load	-4.11 kips	*Calculated Axial Load (tension)*
Moment Load	-1.19 kips-ft	*Calculated Moment*

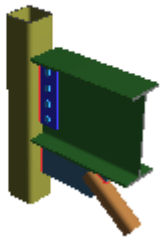
Governing LC: 3D - 21 - IBC 16-6 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Required Load Calculation				**n/a**
Beam Weld Limitations				**PASS**
Plate Shear Yield	5.65 kips	121.50 kips	**0.05**	**PASS**
Plate Shear Rupture	5.65 kips	146.81 kips	**0.04**	**PASS**
Plate Axial Yield	4.11 kips	182.25 kips	**0.02**	**PASS**
Plate Tension Rupture	4.11 kips	244.69 kips	**0.02**	**PASS**
Plate Flexural Yield			**0.00**	**PASS**
Plate Flexural Rupture			**0.00**	**PASS**
Beam Weld Strength	9.53 kips/ft	106.91 kips/ft	**0.09**	**PASS**
Beam Web Yielding	4.11 kips	297.91 kips	**0.01**	**PASS**

M13 I: Bot Gusset/Col Report

Vertical Brace Diagonal Connection



Material Properties:				
Beam	W16X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Bottom Brace	HSS3X3X6	A500 Gr.C RECT	F_y = 50.00 ksi	F_u = 62.00 ksi
Bottom Gusset	P0.38x8.00x15.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-1.39 kips	*Calculated Shear Load*
Axial Load	-1.54 kips	*Calculated Axial Load (tension)*
Moment Load	0.17 kips-ft	*Calculated Moment*

Governing LC: 3D - 21 - IBC 16-6 (a)

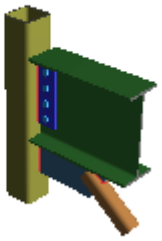
Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Required Load Calculation				**n/a**
HSS Limitations				**PASS**
Column Weld Limitations				**PASS**
Plate Shear Yield	1.39 kips	64.80 kips	**0.02**	**PASS**
Plate Shear Rupture	1.39 kips	78.30 kips	**0.02**	**PASS**
Plate Axial Yield	1.54 kips	97.20 kips	**0.02**	**PASS**
Plate Tension Rupture	1.54 kips	130.50 kips	**0.01**	**PASS**
Plate Flexural Yield			**0.00**	**PASS**
Plate Flexural Rupture			**0.00**	**PASS**
Column Weld Strength	5.01 kips/ft	106.91 kips/ft	**0.05**	**PASS**
HSS Punching Shear	0.17 kips-ft	16.19 kips-ft	**0.01**	**PASS**
HSS Column Transverse Plastification	1.54 kips	42.89 kips	**0.04**	**PASS**

M13 I: Bot Gusset/Brace Report

LRFD

Vertical Brace Diagonal Connection



Material Properties:				
Beam	W16X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Bottom Brace	HSS3X3X6	A500 Gr.C RECT	F_y = 50.00 ksi	F_u = 62.00 ksi
Bottom Gusset	P0.38x8.00x15.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Brace Axial	-9.05 kips	*Brace Axial (tension)*

Governing LC: 3D - 21 - IBC 16-6 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Brace Weld Limitations				**PASS**
Gusset Plate Tensile Yield (Whitmore)	9.05 kips	85.86 kips	**0.11**	**PASS**
Gusset Plate Tensile Rupture (Whitmore)	9.05 kips	115.27 kips	**0.08**	**PASS**
Brace Tensile Yield	9.05 kips	152.55 kips	**0.06**	**PASS**
Brace Tensile Rupture	9.05 kips	96.23 kips	**0.09**	**PASS**
Brace Weld Strength	9.05 kips	78.43 kips	**0.12**	**PASS**

General

Connection	
Connection Title	M13 I
Connection Type	Vertical Brace Diagonal Connection
Seismic Detailing	
Seismic System	None
Connection Category	
Braces	Below
Column Connection Type	Narrow
Loading (LRFD)	
Custom?	No
Shear Load	-1.084 kips
Beam Axial Load	5.934 kips
Column Force	16.203 kips
Axial Transfer Force	0.000 kips
Shear Transfer Force	0.000 kips
Column Moment	-0.001 kips-ft
Bottom Brace Axial	-9.053 kips
Qf	1.000 Coeff
Components	
Beam Section	W16X40
Material	A992
Web Hole Type	STD
Column Section	HSS6X6X6
Material	A500 Gr.B RECT
Bottom Brace Section	HSS3X3X6
Material	A500 Gr.C RECT
Member Orientation	Long Side Vertical
Assembly	
Auto-Update Connections	No
Bottom Brace Angle from Vertical	52.561
Workpoint Location	Concentric

Beam

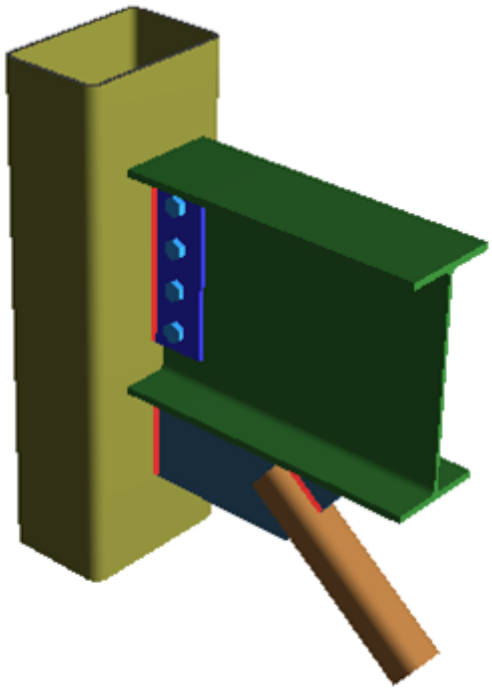
Beam-Column Connection Components	
Type	Shear Tab
Beam Fastener Type	Bolted
Plate Section	P0.38x4.00x12.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	12.000 in
Hole Type	STD
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	4
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in

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Slip Critical	No
Assembly	
Column/Beam Clearance	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Beam Bolts Vert Edge Dist	1.500 in

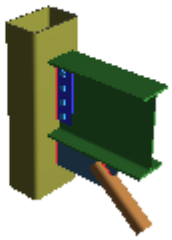
Bottom Brace

Components	
Bottom Gusset	P0.38x8.00x15.00
Material	A36
Tapered ?	No
Thickness	0.375 in
Width	8.000 in
Length	15.000 in
Width to Length Ratio	Unlimited
Bottom Gusset-Brace Connection	
Connection Type	Slotted Around Gusset
Brace Gusset Weld	E70
Type	Fillet
Fillet Size	4.000 Sixteenths
Bottom Gusset-Beam Connection	
Type	Direct Weld
Beam Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Bottom Gusset-Column Connection	
Type	Direct Weld
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Assembly	
Brace Min Clearance	1.751 in
Brace WorkPoint Distance	18.000 in
Brace/Gusset Overlap	3.522 in
Gusset/Column Gap	0.000 in
Gusset/Beam Gap	0.000 in
Gusset Clip	
Vertical Clip	4.108 in
Horizontal Clip	3.145 in
Brace/Clip Edge Dist	2.173 in



M14 J: Summary Report

Vertical Brace Diagonal Connection



Material Properties:				
Beam	W16X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Bottom Brace	HSS3X3X6	A36 Gr.36	F_y = 36.00 ksi	F_u = 58.00 ksi
Bottom Gusset	P0.38x8.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	12.72 kips	*User Input Shear Load*
Beam Axial Load	-0.34 kips	*User Input Beam Axial Force*
Column Force	67.85 kips	*User Input Column Force*
Axial Transfer Force	0.00 kips	*Required axial transfer force from connected horizontal braces*
Shear Transfer Force	0.00 kips	*Required shear transfer force from connected horizontal braces*
Column Moment	0.58 kips-ft	*User Input Column Moment*
Bottom Brace Axial	0.00 kips	*User Input Bottom Brace Axial Force*

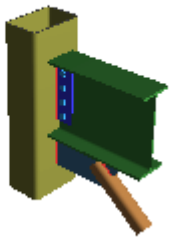
Governing LC: 3D - 7 - IBC 16-3 (b) (c)

Note: Unless specified, all code references are from AISC 360-16

Connection	Required	Max Unity Check	Result
Beam/Column connection	Bolt Shear at Beam	**0.18**	**PASS**
Bottom Gusset/Beam connection	Plate Shear Yield	**0.00**	**PASS**
Bottom Gusset/Column connection	Plate Shear Yield	**0.00**	**PASS**
Bottom Gusset/Brace connection	Gusset Plate Compression (Whitmore)	**0.00**	**PASS**

M14 J: Beam/Column Report

Vertical Brace Diagonal Connection



Material Properties:				
Beam	W16X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Bottom Brace	HSS3X3X6	A36 Gr.36	F_y = 36.00 ksi	F_u = 58.00 ksi
Bottom Gusset	P0.38x8.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Total Shear Load	12.72 kips	*Calculated Shear Load*
Total Axial Load	-0.34 kips	*Calculated Axial Load (tension)*
Column Force	67.85 kips	*User Input Column Force*
Column Moment	0.58 kips-ft	*User Input Column Moment*

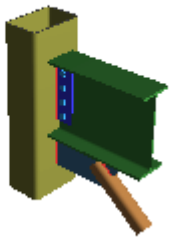
Governing LC: 3D - 7 - IBC 16-3 (b) (c)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Required Load Calculation				**n/a**
HSS Limitations				**PASS**
Geometry Restrictions at Beam				**PASS**
Column Weld Limitations				**PASS**
Beam Shear Yield	12.72 kips	146.40 kips	**0.09**	**PASS**
Plate Shear Yield	12.72 kips	97.20 kips	**0.13**	**PASS**
Beam Shear Rupture	12.72 kips	111.52 kips	**0.11**	**PASS**
Plate Shear Rupture at Beam	12.72 kips	83.19 kips	**0.15**	**PASS**
Beam Block Shear	12.72 kips	132.24 kips	**0.10**	**PASS**
Plate Block Shear at Beam	12.72 kips	89.28 kips	**0.14**	**PASS**
Plate Flexural Yield			**0.02**	**PASS**
Plate Flexural Rupture			**0.03**	**PASS**
Plate Flexural Buckling	12.72 kips	105.71 kips	**0.12**	**PASS**
Bolt Bearing on Beam	12.72 kips	71.57 kips	**0.18**	**PASS**
Bolt Bearing on Plate at Beam	12.72 kips	71.57 kips	**0.18**	**PASS**
Bolt Shear at Beam	12.72 kips	70.25 kips	**0.18**	**PASS**
Bolt Group Eccentricity		***0.98***		
Weld at Column	12.72 kips	133.63 kips	**0.10**	**PASS**

M14 J: Bot Gusset/Beam Report

Vertical Brace Diagonal Connection



Material Properties:				
Beam	W16X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Bottom Brace	HSS3X3X6	A36 Gr.36	F_y = 36.00 ksi	F_u = 58.00 ksi
Bottom Gusset	P0.38x8.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	0.00 kips	*Calculated Shear Load*
Axial Load	0.00 kips	*Calculated Axial Load*
Moment Load	0.00 kips-ft	*Calculated Moment*

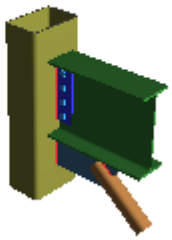
Governing LC: 3D - 7 - IBC 16-3 (b) (c)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Required Load Calculation				**n/a**
Beam Weld Limitations				**PASS**
Plate Shear Yield	0.00 kips	129.60 kips	**0.00**	**PASS**
Plate Shear Rupture	0.00 kips	156.60 kips	**0.00**	**PASS**
Plate Flexural Yield			**0.00**	**PASS**
Plate Flexural Rupture			**0.00**	**PASS**
Beam Weld Strength	0.00 kips	138.09 kips	**0.00**	**PASS**

M14 J: Bot Gusset/Col Report

Vertical Brace Diagonal Connection



Material Properties:				
Beam	W16X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Bottom Brace	HSS3X3X6	A36 Gr.36	F_y = 36.00 ksi	F_u = 58.00 ksi
Bottom Gusset	P0.38x8.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	0.00 kips	*Calculated Shear Load*
Axial Load	0.00 kips	*Calculated Axial Load*
Moment Load	0.00 kips-ft	*Calculated Moment*

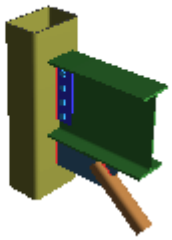
Governing LC: 3D - 7 - IBC 16-3 (b) (c)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Required Load Calculation				**n/a**
HSS Limitations				**PASS**
Column Weld Limitations				**PASS**
Plate Shear Yield	0.00 kips	64.80 kips	**0.00**	**PASS**
Plate Shear Rupture	0.00 kips	78.30 kips	**0.00**	**PASS**
Plate Flexural Yield			**0.00**	**PASS**
Plate Flexural Rupture			**0.00**	**PASS**
Column Weld Strength	0.00 kips	71.27 kips	**0.00**	**PASS**

M14 J: Bot Gusset/Brace Report

Vertical Brace Diagonal Connection



Material Properties:				
Beam	W16X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Bottom Brace	HSS3X3X6	A36 Gr.36	F_y = 36.00 ksi	F_u = 58.00 ksi
Bottom Gusset	P0.38x8.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Brace Axial	0.00 kips	*Brace Axial*

Governing LC: 3D - 7 - IBC 16-3 (b) (c)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Brace Weld Limitations				**PASS**
Gusset Plate Compression (Whitmore)	0.00 kips	92.57 kips	**0.00**	**PASS**
Brace Weld Strength	0.00 kips	89.09 kips	**0.00**	**PASS**

General

Connection	
Connection Title	M14 J
Connection Type	Vertical Brace Diagonal Connection
Seismic Detailing	
Seismic System	None
Connection Category	
Braces	Below
Column Connection Type	Wide
Loading (LRFD)	
Custom?	No
Shear Load	12.717 kips
Beam Axial Load	-0.343 kips
Column Force	67.847 kips
Axial Transfer Force	0.000 kips
Shear Transfer Force	0.000 kips
Column Moment	0.581 kips-ft
Bottom Brace Axial	0.000 kips
Qf	1.000 Coeff
Components	
Beam Section	W16X40
Material	A992
Web Hole Type	STD
Column Section	HSS12X8X6
Material	A500 Gr.B RECT
Bottom Brace Section	HSS3X3X6
Material	A36 Gr.36
Member Orientation	Long Side Vertical
Assembly	
Auto-Update Connections	No
Bottom Brace Angle from Vertical	51.446
Workpoint Location	Concentric

Beam

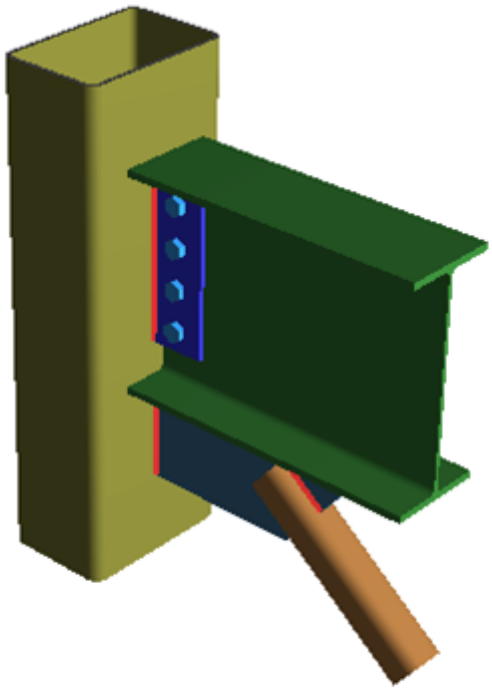
Beam-Column Connection Components	
Type	Shear Tab
Beam Fastener Type	Bolted
Plate Section	P0.38x4.00x12.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	12.000 in
Hole Type	STD
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	4
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in

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Slip Critical	No
Assembly	
Column/Beam Clearance	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Beam Bolts Vert Edge Dist	1.500 in
Beam Cope Dimensions	
Flange Cope Width	0.000 in
Flange Cope Length	0.000 in
Flange Cope Radius	0.500 in

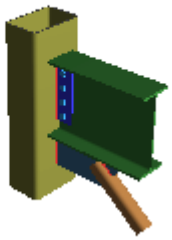
Bottom Brace

Components	
Bottom Gusset	P0.38x8.00x16.00
Material	A36
Tapered ?	No
Thickness	0.375 in
Width	8.000 in
Length	16.000 in
Width to Length Ratio	Unlimited
Bottom Gusset-Brace Connection	
Connection Type	Slotted Around Gusset
Brace Gusset Weld	E70
Type	Fillet
Fillet Size	4.000 Sixteenths
Bottom Gusset-Beam Connection	
Type	Direct Weld
Beam Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Bottom Gusset-Column Connection	
Type	Direct Weld
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Assembly	
Brace Min Clearance	2.046 in
Brace WorkPoint Distance	18.000 in
Brace/Gusset Overlap	4.000 in
Gusset/Column Gap	0.000 in
Gusset/Beam Gap	0.000 in
Gusset Clip	
Vertical Clip	5.796 in
Horizontal Clip	4.619 in
Brace/Clip Edge Dist	1.426 in



M15 J: Summary Report

Vertical Brace Diagonal Connection



Material Properties:				
Beam	W16X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Bottom Brace	HSS3X3X6	A36 Gr.36	F_y = 36.00 ksi	F_u = 58.00 ksi
Bottom Gusset	P0.38x8.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-19.29 kips	*User Input Shear Load*
Beam Axial Load	0.00 kips	*User Input Beam Axial Force*
Column Force	29.96 kips	*User Input Column Force*
Axial Transfer Force	0.00 kips	*Required axial transfer force from connected horizontal braces*
Shear Transfer Force	0.00 kips	*Required shear transfer force from connected horizontal braces*
Column Moment	0.49 kips-ft	*User Input Column Moment*
Bottom Brace Axial	0.00 kips	*User Input Bottom Brace Axial Force*

Governing LC: 3D - 5 - IBC 16-3 (b) (a)

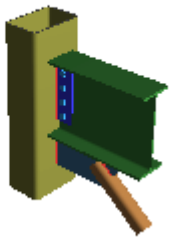
Note: Unless specified, all code references are from AISC 360-16

Connection	Required	Max Unity Check	Result
Beam/Column connection	Bolt Shear at Beam	**0.27**	**PASS**
Bottom Gusset/Beam connection	Plate Shear Yield	**0.00**	**PASS**
Bottom Gusset/Column connection	Plate Shear Yield	**0.00**	**PASS**
Bottom Gusset/Brace connection	Gusset Plate Compression (Whitmore)	**0.00**	**PASS**

M15 J: Beam/Column Report

LRFD

Vertical Brace Diagonal Connection



Material Properties:				
Beam	W16X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Bottom Brace	HSS3X3X6	A36 Gr.36	F_y = 36.00 ksi	F_u = 58.00 ksi
Bottom Gusset	P0.38x8.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Total Shear Load	-19.29 kips	*Calculated Shear Load*
Total Axial Load	0.00 kips	*Calculated Axial Load (compression)*
Column Force	29.96 kips	*User Input Column Force*
Column Moment	0.49 kips-ft	*User Input Column Moment*

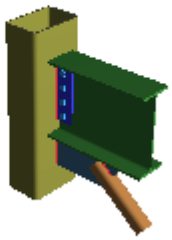
Governing LC: 3D - 5 - IBC 16-3 (b) (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Required Load Calculation				**n/a**
HSS Limitations				**PASS**
Geometry Restrictions at Beam				**PASS**
Column Weld Limitations				**PASS**
Beam Shear Yield	19.29 kips	146.40 kips	**0.13**	**PASS**
Plate Shear Yield	19.29 kips	97.20 kips	**0.20**	**PASS**
Beam Shear Rupture	19.29 kips	111.52 kips	**0.17**	**PASS**
Plate Shear Rupture at Beam	19.29 kips	83.19 kips	**0.23**	**PASS**
Beam Block Shear	19.29 kips	132.24 kips	**0.15**	**PASS**
Plate Block Shear at Beam	19.29 kips	89.28 kips	**0.22**	**PASS**
Plate Flexural Yield			**0.05**	**PASS**
Plate Flexural Rupture			**0.06**	**PASS**
Plate Flexural Buckling	19.29 kips	105.71 kips	**0.18**	**PASS**
Bolt Bearing on Beam	19.29 kips	71.57 kips	**0.27**	**PASS**
Bolt Bearing on Plate at Beam	19.29 kips	71.57 kips	**0.27**	**PASS**
Bolt Shear at Beam	19.29 kips	70.25 kips	**0.27**	**PASS**
Bolt Group Eccentricity		***0.98***		
Weld at Column	19.29 kips	133.63 kips	**0.14**	**PASS**

M15 J: Bot Gusset/Beam Report

Vertical Brace Diagonal Connection



Material Properties:				
Beam	W16X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Bottom Brace	HSS3X3X6	A36 Gr.36	F_y = 36.00 ksi	F_u = 58.00 ksi
Bottom Gusset	P0.38x8.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	0.00 kips	*Calculated Shear Load*
Axial Load	0.00 kips	*Calculated Axial Load*
Moment Load	0.00 kips-ft	*Calculated Moment*

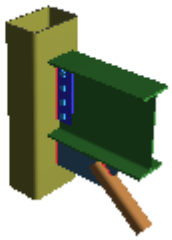
Governing LC: 3D - 5 - IBC 16-3 (b) (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Required Load Calculation				**n/a**
Beam Weld Limitations				**PASS**
Plate Shear Yield	0.00 kips	129.60 kips	**0.00**	**PASS**
Plate Shear Rupture	0.00 kips	156.60 kips	**0.00**	**PASS**
Plate Flexural Yield			**0.00**	**PASS**
Plate Flexural Rupture			**0.00**	**PASS**
Beam Weld Strength	0.00 kips	138.09 kips	**0.00**	**PASS**

M15 J: Bot Gusset/Col Report

Vertical Brace Diagonal Connection



Material Properties:				
Beam	W16X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Bottom Brace	HSS3X3X6	A36 Gr.36	F_y = 36.00 ksi	F_u = 58.00 ksi
Bottom Gusset	P0.38x8.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	0.00 kips	*Calculated Shear Load*
Axial Load	0.00 kips	*Calculated Axial Load*
Moment Load	0.00 kips-ft	*Calculated Moment*

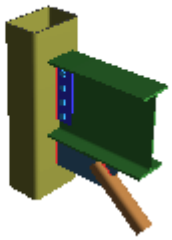
Governing LC: 3D - 5 - IBC 16-3 (b) (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Required Load Calculation				**n/a**
HSS Limitations				**PASS**
Column Weld Limitations				**PASS**
Plate Shear Yield	0.00 kips	64.80 kips	**0.00**	**PASS**
Plate Shear Rupture	0.00 kips	78.30 kips	**0.00**	**PASS**
Plate Flexural Yield			**0.00**	**PASS**
Plate Flexural Rupture			**0.00**	**PASS**
Column Weld Strength	0.00 kips	71.27 kips	**0.00**	**PASS**

M15 J: Bot Gusset/Brace Report

Vertical Brace Diagonal Connection



Material Properties:				
Beam	W16X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi
Bottom Brace	HSS3X3X6	A36 Gr.36	F_y = 36.00 ksi	F_u = 58.00 ksi
Bottom Gusset	P0.38x8.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Brace Axial	0.00 kips	*Brace Axial*

Governing LC: 3D - 5 - IBC 16-3 (b) (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Brace Weld Limitations				**PASS**
Gusset Plate Compression (Whitmore)	0.00 kips	92.57 kips	**0.00**	**PASS**
Brace Weld Strength	0.00 kips	89.09 kips	**0.00**	**PASS**

General

Connection	
Connection Title	M15 J
Connection Type	Vertical Brace Diagonal Connection
Seismic Detailing	
Seismic System	None
Connection Category	
Braces	Below
Column Connection Type	Wide
Loading (LRFD)	
Custom?	No
Shear Load	-19.287 kips
Beam Axial Load	0.001 kips
Column Force	29.959 kips
Axial Transfer Force	0.000 kips
Shear Transfer Force	0.000 kips
Column Moment	0.489 kips-ft
Bottom Brace Axial	0.000 kips
Qf	1.000 Coeff
Components	
Beam Section	W16X40
Material	A992
Web Hole Type	STD
Column Section	HSS12X8X6
Material	A500 Gr.B RECT
Bottom Brace Section	HSS3X3X6
Material	A36 Gr.36
Member Orientation	Long Side Vertical
Assembly	
Auto-Update Connections	No
Bottom Brace Angle from Vertical	51.446
Workpoint Location	Concentric

Beam

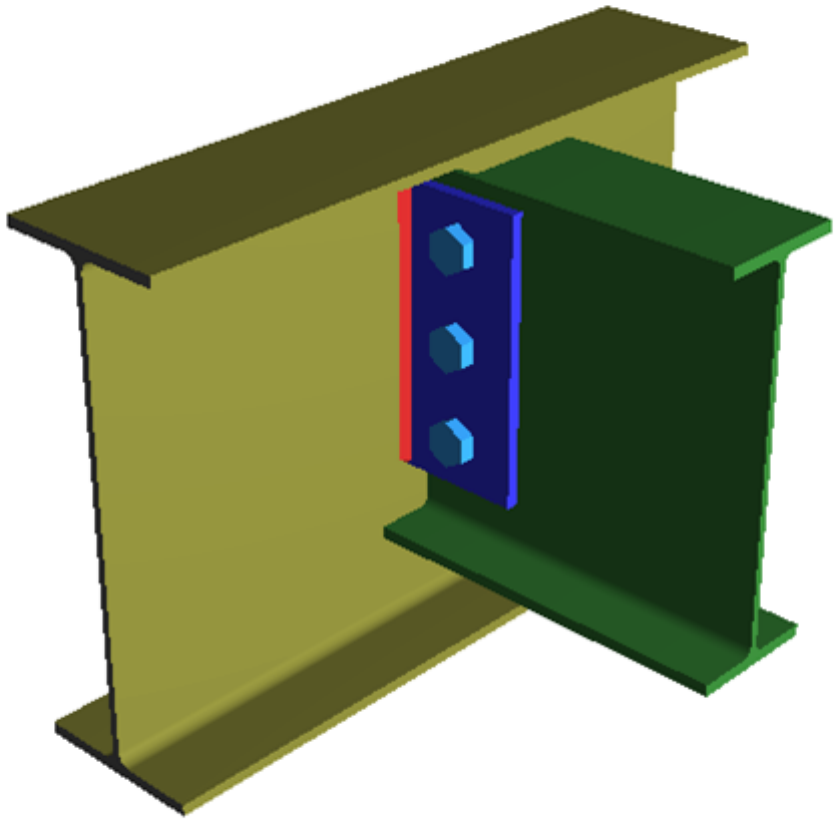
Beam-Column Connection Components	
Type	Shear Tab
Beam Fastener Type	Bolted
Plate Section	P0.38x4.00x12.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	12.000 in
Hole Type	STD
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	4
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in

continued on next page...

Slip Critical	No
Assembly	
Column/Beam Clearance	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Beam Bolts Vert Edge Dist	1.500 in
Beam Cope Dimensions	
Flange Cope Width	0.000 in
Flange Cope Length	0.000 in
Flange Cope Radius	0.500 in

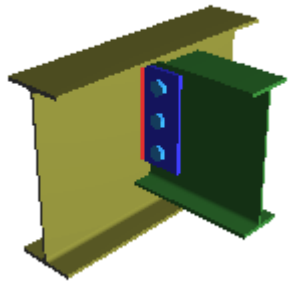
Bottom Brace

Components	
Bottom Gusset	P0.38x8.00x16.00
Material	A36
Tapered ?	No
Thickness	0.375 in
Width	8.000 in
Length	16.000 in
Width to Length Ratio	Unlimited
Bottom Gusset-Brace Connection	
Connection Type	Slotted Around Gusset
Brace Gusset Weld	E70
Type	Fillet
Fillet Size	4.000 Sixteenths
Bottom Gusset-Beam Connection	
Type	Direct Weld
Beam Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Bottom Gusset-Column Connection	
Type	Direct Weld
Column Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Assembly	
Brace Min Clearance	2.046 in
Brace WorkPoint Distance	18.000 in
Brace/Gusset Overlap	4.000 in
Gusset/Column Gap	0.000 in
Gusset/Beam Gap	0.000 in
Gusset Clip	
Vertical Clip	5.796 in
Horizontal Clip	4.619 in
Brace/Clip Edge Dist	1.426 in



F1_G157 I - F1_G154: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W16X26	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W12X19	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x9.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	4.65 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force*

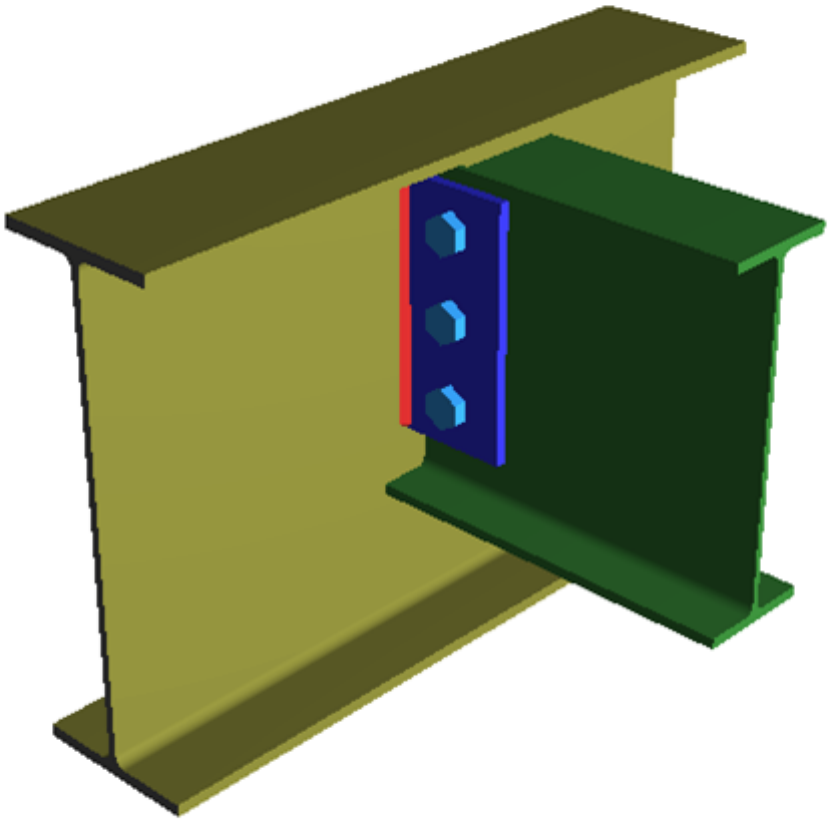
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	4.65 kips	78.89 kips	**0.06**	**PASS**
Plate Shear Yield	4.65 kips	72.90 kips	**0.06**	**PASS**
Beam Shear Rupture	4.65 kips	58.87 kips	**0.08**	**PASS**
Plate Shear Rupture at Beam	4.65 kips	62.40 kips	**0.07**	**PASS**
Beam Block Shear	4.65 kips	52.06 kips	**0.09**	**PASS**
Plate Block Shear	4.65 kips	71.05 kips	**0.07**	**PASS**
Lateral Stability / Stabilizer Plates	4.65 kips	503.22 kips	**0.01**	**PASS**
Plate Flexural Yield			**0.00**	**PASS**
Plate Flexural Rupture			**0.01**	**PASS**
Plate Flexural Buckling	4.65 kips	121.05 kips	**0.04**	**PASS**
Coped Beam Flexural Rupture	4.65 kips	92.10 kips	**0.05**	**PASS**
Coped Beam Local Web Buckling	4.65 kips	85.02 kips	**0.05**	**PASS**
Bolt Bearing on Beam	4.65 kips	53.68 kips	**0.09**	**PASS**
Bolt Bearing on Plate at Beam	4.65 kips	53.68 kips	**0.09**	**PASS**
Bolt Shear at Beam	4.65 kips	48.57 kips	**0.10**	**PASS**
Bolt Group Eccentricity		***0.90***		
Girder Weld Strength	10.33 kips/ft	133.63 kips/ft	**0.08**	**PASS**

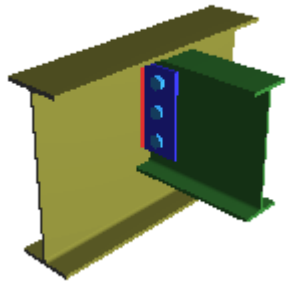
F1_G157 I - F1_G154: Connection Properties Report

Connection	
Connection Title	F1_G157 I - F1_G154
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	4.651 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W16X26
Material	A992
Beam Section	W12X19
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x9.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	9.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	3
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.010 in
Web Cope Top Length	3.308 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_G157 J - F1_G13: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W18X35	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W12X19	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x9.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-4.62 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force*

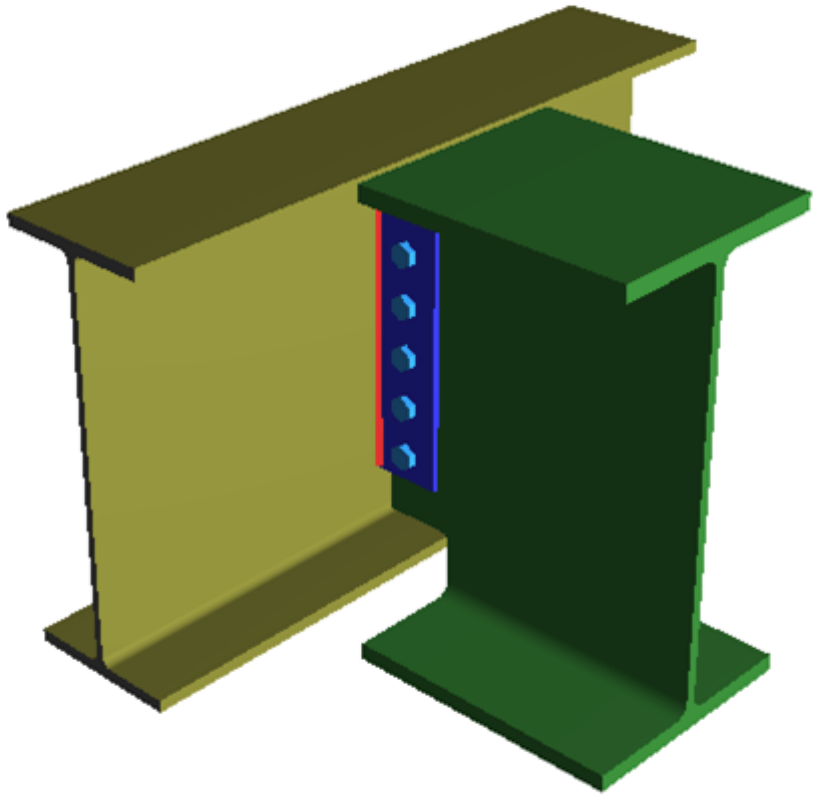
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	4.62 kips	78.89 kips	**0.06**	**PASS**
Plate Shear Yield	4.62 kips	72.90 kips	**0.06**	**PASS**
Beam Shear Rupture	4.62 kips	58.87 kips	**0.08**	**PASS**
Plate Shear Rupture at Beam	4.62 kips	62.40 kips	**0.07**	**PASS**
Beam Block Shear	4.62 kips	84.44 kips	**0.05**	**PASS**
Plate Block Shear	4.62 kips	71.05 kips	**0.06**	**PASS**
Lateral Stability / Stabilizer Plates	4.62 kips	503.22 kips	**0.01**	**PASS**
Plate Flexural Yield			**0.00**	**PASS**
Plate Flexural Rupture			**0.01**	**PASS**
Plate Flexural Buckling	4.62 kips	121.05 kips	**0.04**	**PASS**
Coped Beam Flexural Rupture	4.62 kips	92.10 kips	**0.05**	**PASS**
Coped Beam Local Web Buckling	4.62 kips	85.02 kips	**0.05**	**PASS**
Bolt Bearing on Beam	4.62 kips	53.68 kips	**0.09**	**PASS**
Bolt Bearing on Plate at Beam	4.62 kips	53.68 kips	**0.09**	**PASS**
Bolt Shear at Beam	4.62 kips	48.57 kips	**0.10**	**PASS**
Bolt Group Eccentricity		***0.90***		
Girder Weld Strength	10.26 kips/ft	133.63 kips/ft	**0.08**	**PASS**

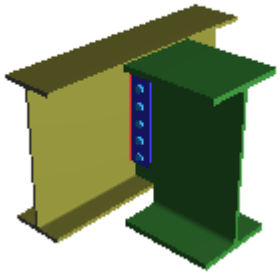
F1_G157 J - F1_G13: Connection Properties Report

Connection	
Connection Title	F1_G157 J - F1_G13
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	-4.618 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W18X35
Material	A992
Beam Section	W12X19
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x9.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	9.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	3
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.010 in
Web Cope Top Length	3.308 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_G21 J - F1_G18: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W24X76	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W27X146	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x18.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-64.60 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force*

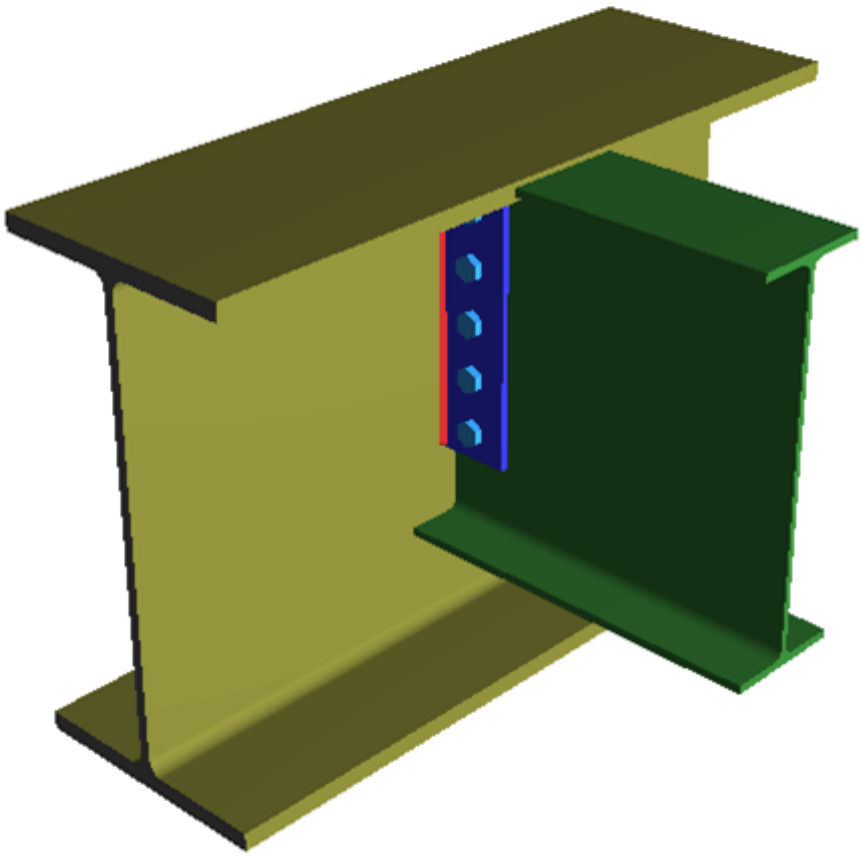
Governing LC: 3D - 7 - IBC 16-3 (b) (c)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	64.60 kips	380.42 kips	**0.17**	**PASS**
Plate Shear Yield	64.60 kips	145.80 kips	**0.44**	**PASS**
Beam Shear Rupture	64.60 kips	278.01 kips	**0.23**	**PASS**
Plate Shear Rupture at Beam	64.60 kips	124.79 kips	**0.52**	**PASS**
Beam Block Shear	64.60 kips	282.98 kips	**0.23**	**PASS**
Plate Block Shear	64.60 kips	125.73 kips	**0.51**	**PASS**
Lateral Stability / Stabilizer Plates	64.60 kips	1006.44 kips	**0.06**	**PASS**
Plate Flexural Yield			**0.21**	**PASS**
Plate Flexural Rupture			**0.29**	**PASS**
Plate Flexural Buckling	64.60 kips	234.80 kips	**0.28**	**PASS**
Coped Beam Flexural Rupture	64.60 kips	452.26 kips	**0.14**	**PASS**
Coped Beam Lateral Torsional Buckling	64.60 kips	417.47 kips	**0.15**	**PASS**
Bolt Bearing on Beam	64.60 kips	107.35 kips	**0.60**	**PASS**
Bolt Bearing on Plate at Beam	64.60 kips	107.35 kips	**0.60**	**PASS**
Bolt Shear at Beam	64.60 kips	97.43 kips	**0.66**	**PASS**
Bolt Group Eccentricity		***0.91***		
Girder Weld Strength	51.76 kips/ft	133.63 kips/ft	**0.39**	**PASS**

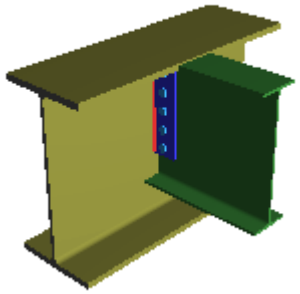
F1_G21 J - F1_G18: Connection Properties Report

Connection	
Connection Title	F1_G21 J - F1_G18
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	-64.596 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W24X76
Material	A992
Beam Section	W27X146
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x18.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	18.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	6
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.760 in
Web Cope Top Length	4.275 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	4.680 in
Web Cope Bottom Length	4.275 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	2.188 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_G22 J - F1_G21: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W27X146	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W21X44	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x15.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-15.80 kips	*User Input Shear Load*
Axial Load	-0.00 kips	*User Input Axial Force (tension)*

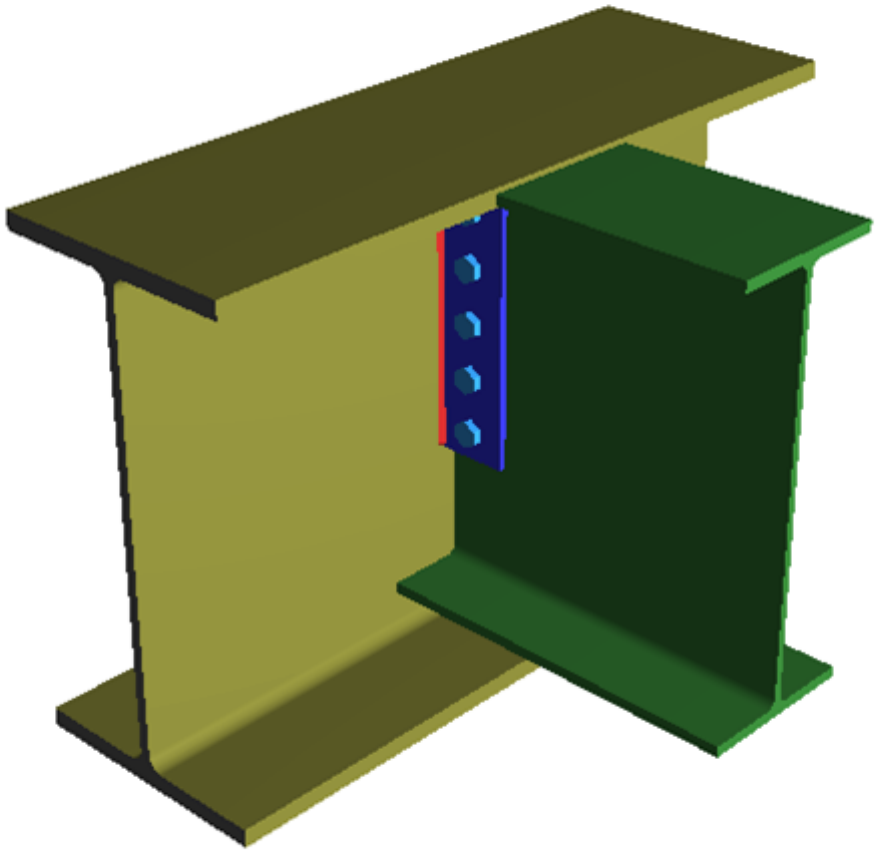
Governing LC: 3D - 7 - IBC 16-3 (b) (c)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	15.80 kips	198.87 kips	**0.08**	**PASS**
Plate Shear Yield	15.80 kips	121.50 kips	**0.13**	**PASS**
Beam Shear Rupture	15.80 kips	149.11 kips	**0.11**	**PASS**
Plate Shear Rupture at Beam	15.80 kips	103.99 kips	**0.15**	**PASS**
Beam Block Shear	15.80 kips	185.84 kips	**0.09**	**PASS**
Plate Block Shear	15.80 kips	107.50 kips	**0.15**	**PASS**
Lateral Stability / Stabilizer Plates	15.80 kips	838.70 kips	**0.02**	**PASS**
Plate Flexural Yield			**0.02**	**PASS**
Plate Flexural Rupture			**0.02**	**PASS**
Plate Flexural Buckling	15.80 kips	327.60 kips	**0.05**	**PASS**
Coped Beam Flexural Rupture	15.80 kips	202.81 kips	**0.08**	**PASS**
Coped Beam Local Web Buckling	15.80 kips	187.20 kips	**0.08**	**PASS**
Bolt Bearing on Beam	15.80 kips	89.46 kips	**0.18**	**PASS**
Bolt Bearing on Plate at Beam	15.80 kips	89.46 kips	**0.18**	**PASS**
Bolt Shear at Beam	15.80 kips	85.29 kips	**0.19**	**PASS**
Bolt Group Eccentricity		***0.95***		
Girder Weld Strength	16.19 kips/ft	133.63 kips/ft	**0.12**	**PASS**

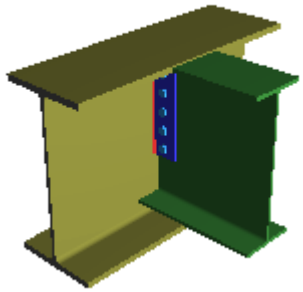
F1_G22 J - F1_G21: Connection Properties Report

Connection	
Connection Title	F1_G22 J - F1_G21
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	-15.803 kips
Axial Load	-0.003 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W27X146
Material	A992
Beam Section	W21X44
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x15.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	15.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	5
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.760 in
Web Cope Top Length	6.698 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.760 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_G23 I - F1_G21: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W27X146	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W24X68	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x15.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	37.83 kips	*User Input Shear Load*
Axial Load	-0.00 kips	*User Input Axial Force*

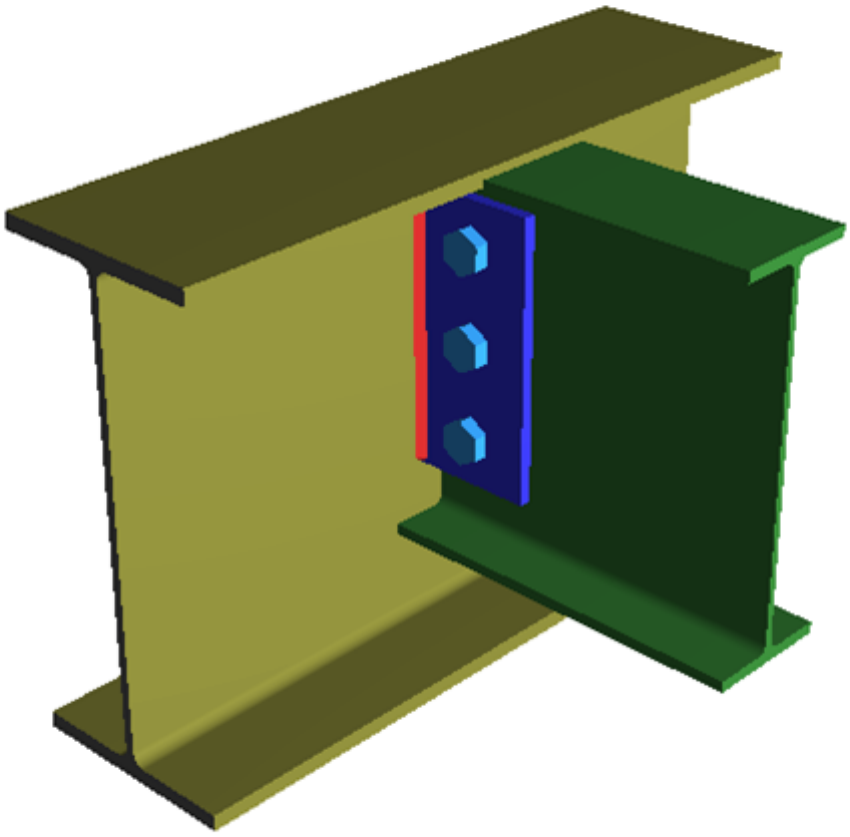
Governing LC: 3D - 5 - IBC 16-3 (b) (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	37.83 kips	273.15 kips	**0.14**	**PASS**
Plate Shear Yield	37.83 kips	121.50 kips	**0.31**	**PASS**
Beam Shear Rupture	37.83 kips	213.22 kips	**0.18**	**PASS**
Plate Shear Rupture at Beam	37.83 kips	103.99 kips	**0.36**	**PASS**
Beam Block Shear	37.83 kips	138.97 kips	**0.27**	**PASS**
Plate Block Shear	37.83 kips	107.50 kips	**0.35**	**PASS**
Lateral Stability / Stabilizer Plates	37.83 kips	838.70 kips	**0.05**	**PASS**
Plate Flexural Yield			**0.10**	**PASS**
Plate Flexural Rupture			**0.14**	**PASS**
Plate Flexural Buckling	37.83 kips	327.60 kips	**0.12**	**PASS**
Coped Beam Flexural Rupture	37.83 kips	336.69 kips	**0.11**	**PASS**
Coped Beam Local Web Buckling	37.83 kips	310.79 kips	**0.12**	**PASS**
Bolt Bearing on Beam	37.83 kips	89.46 kips	**0.42**	**PASS**
Bolt Bearing on Plate at Beam	37.83 kips	89.46 kips	**0.42**	**PASS**
Bolt Shear at Beam	37.83 kips	85.29 kips	**0.44**	**PASS**
Bolt Group Eccentricity		***0.95***		
Girder Weld Strength	38.76 kips/ft	133.63 kips/ft	**0.29**	**PASS**

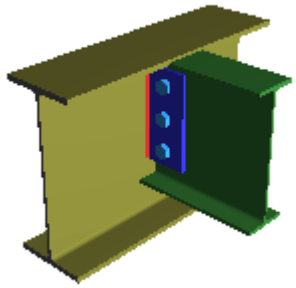
F1_G23 I - F1_G21: Connection Properties Report

Connection	
Connection Title	F1_G23 I - F1_G21
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	37.832 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W27X146
Material	A992
Beam Section	W24X68
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x15.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	15.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	5
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.760 in
Web Cope Top Length	6.698 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.875 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_G24 I - F1_G19: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W16X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W12X19	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x9.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	9.82 kips	*User Input Shear Load*
Axial Load	-2.53 kips	*User Input Axial Force (tension)*

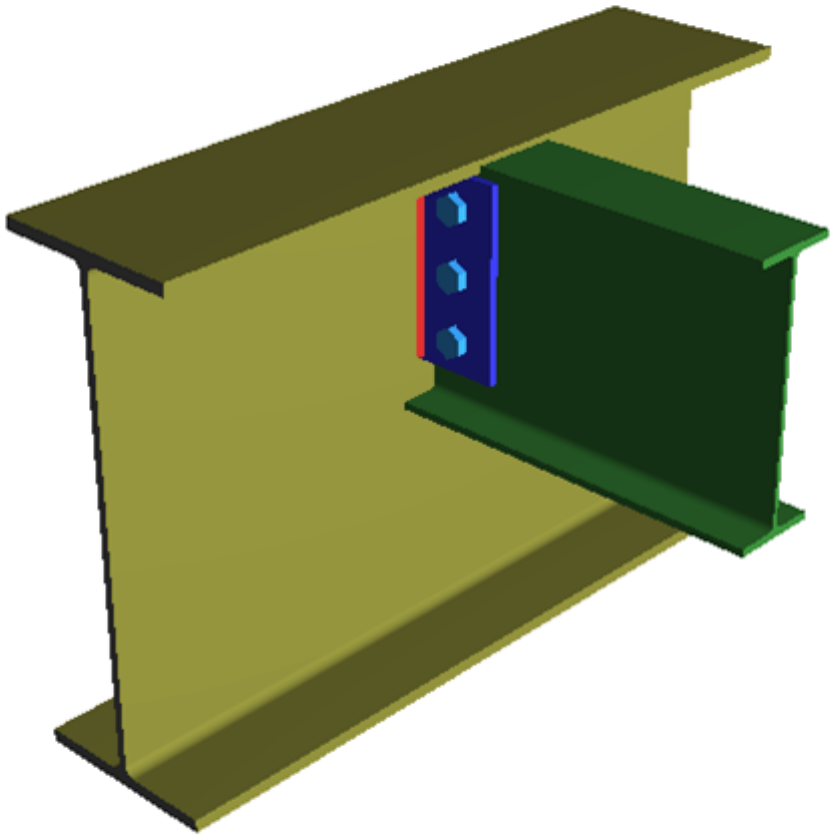
Governing LC: 3D - 7 - IBC 16-3 (b) (c)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	9.82 kips	78.89 kips	**0.12**	**PASS**
Plate Shear Yield	9.82 kips	72.90 kips	**0.13**	**PASS**
Beam Shear Rupture	9.82 kips	58.87 kips	**0.17**	**PASS**
Plate Shear Rupture at Beam	9.82 kips	62.40 kips	**0.16**	**PASS**
Beam Axial Yield	2.53 kips	179.15 kips	**0.01**	**PASS**
Plate Axial Yield	2.53 kips	109.35 kips	**0.02**	**PASS**
Beam Tension Rupture	2.53 kips	104.94 kips	**0.02**	**PASS**
Plate Tension Rupture at Beam	2.53 kips	103.99 kips	**0.02**	**PASS**
Beam Block Shear	9.82 kips	52.06 kips	**0.19**	**PASS**
Plate Block Shear	9.82 kips	71.05 kips	**0.14**	**PASS**
Beam Tearout	2.53 kips	63.30 kips	**0.04**	**PASS**
Plate Tearout on Plate at Beam	2.53 kips	93.63 kips	**0.03**	**PASS**
Lateral Stability / Stabilizer Plates	10.14 kips	503.22 kips	**0.02**	**PASS**
Plate Flexural Yield			**0.03**	**PASS**
Plate Flexural Rupture			**0.04**	**PASS**
Plate Flexural Buckling	9.82 kips	60.52 kips	**0.16**	**PASS**
Coped Beam Flexural Rupture	9.82 kips	91.15 kips	**0.11**	**PASS**
Coped Beam Local Web Buckling	9.82 kips	84.14 kips	**0.12**	**PASS**
Bolt Bearing on Beam	10.14 kips	53.68 kips	**0.19**	**PASS**
Bolt Bearing on Plate at Beam	10.14 kips	53.68 kips	**0.19**	**PASS**
Bolt Shear at Beam	10.14 kips	39.61 kips	**0.26**	**PASS**
Bolt Group Eccentricity		***0.74***		
Girder Weld Strength	24.42 kips/ft	133.63 kips/ft	**0.18**	**PASS**

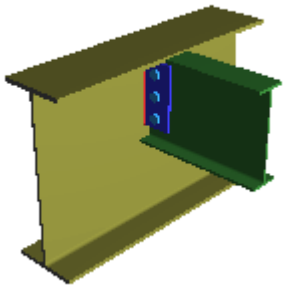
F1_G24 I - F1_G19: Connection Properties Report

Connection	
Connection Title	F1_G24 I - F1_G19
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	9.825 kips
Axial Load	-2.527 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W16X40
Material	A992
Beam Section	W12X19
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x9.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	9.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	3
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.010 in
Web Cope Top Length	3.348 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_G24 J - F1_G23: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W24X68	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W12X19	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x9.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-9.89 kips	*User Input Shear Load*
Axial Load	-2.53 kips	*User Input Axial Force (tension)*

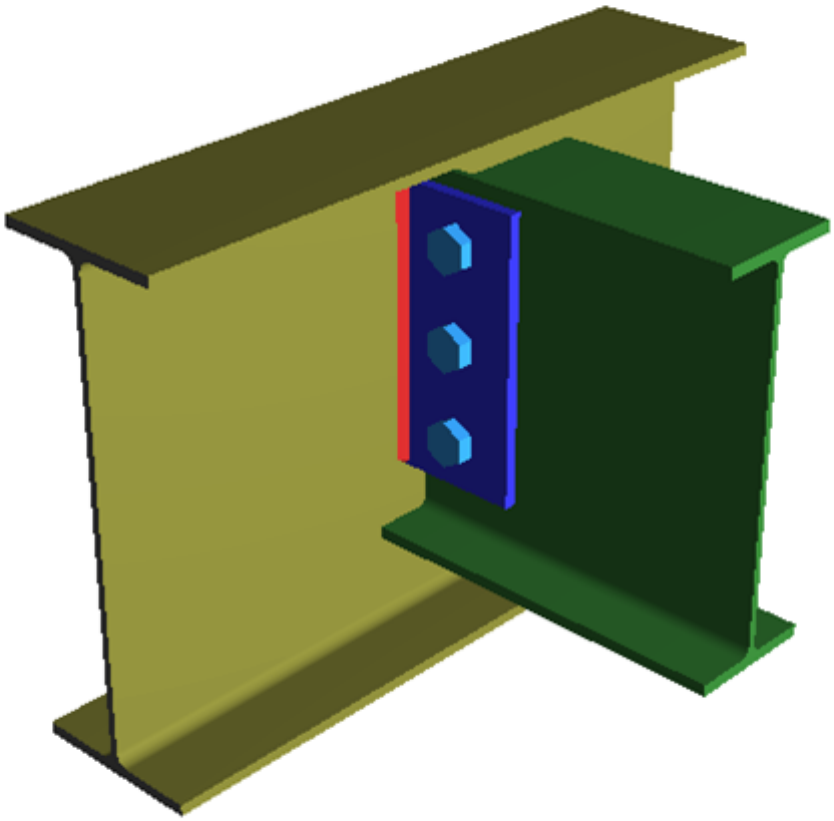
Governing LC: 3D - 7 - IBC 16-3 (b) (c)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	9.89 kips	78.33 kips	**0.13**	**PASS**
Plate Shear Yield	9.89 kips	72.90 kips	**0.14**	**PASS**
Beam Shear Rupture	9.89 kips	58.32 kips	**0.17**	**PASS**
Plate Shear Rupture at Beam	9.89 kips	62.40 kips	**0.16**	**PASS**
Beam Axial Yield	2.53 kips	178.31 kips	**0.01**	**PASS**
Plate Axial Yield	2.53 kips	109.35 kips	**0.02**	**PASS**
Beam Tension Rupture	2.53 kips	104.08 kips	**0.02**	**PASS**
Plate Tension Rupture at Beam	2.53 kips	103.99 kips	**0.02**	**PASS**
Beam Block Shear	9.89 kips	84.44 kips	**0.12**	**PASS**
Plate Block Shear	9.89 kips	71.05 kips	**0.14**	**PASS**
Beam Tearout	2.53 kips	63.30 kips	**0.04**	**PASS**
Plate Tearout on Plate at Beam	2.53 kips	93.63 kips	**0.03**	**PASS**
Lateral Stability / Stabilizer Plates	10.21 kips	503.22 kips	**0.02**	**PASS**
Plate Flexural Yield			**0.03**	**PASS**
Plate Flexural Rupture			**0.04**	**PASS**
Plate Flexural Buckling	9.89 kips	60.52 kips	**0.16**	**PASS**
Coped Beam Flexural Rupture	9.89 kips	72.43 kips	**0.14**	**PASS**
Coped Beam Local Web Buckling	9.89 kips	66.86 kips	**0.15**	**PASS**
Bolt Bearing on Beam	10.21 kips	53.68 kips	**0.19**	**PASS**
Bolt Bearing on Plate at Beam	10.21 kips	53.68 kips	**0.19**	**PASS**
Bolt Shear at Beam	10.21 kips	39.61 kips	**0.26**	**PASS**
Bolt Group Eccentricity		***0.74***		
Girder Weld Strength	24.95 kips/ft	133.63 kips/ft	**0.19**	**PASS**

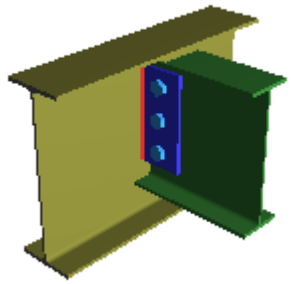
F1_G24 J - F1_G23: Connection Properties Report

Connection	
Connection Title	F1_G24 J - F1_G23
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	-9.891 kips
Axial Load	-2.527 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W24X68
Material	A992
Beam Section	W12X19
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x9.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	9.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	3
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.090 in
Web Cope Top Length	4.278 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_G25 I - F1_G17: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W16X26	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W12X19	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x9.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	7.60 kips	*User Input Shear Load*
Axial Load	-0.00 kips	*User Input Axial Force*

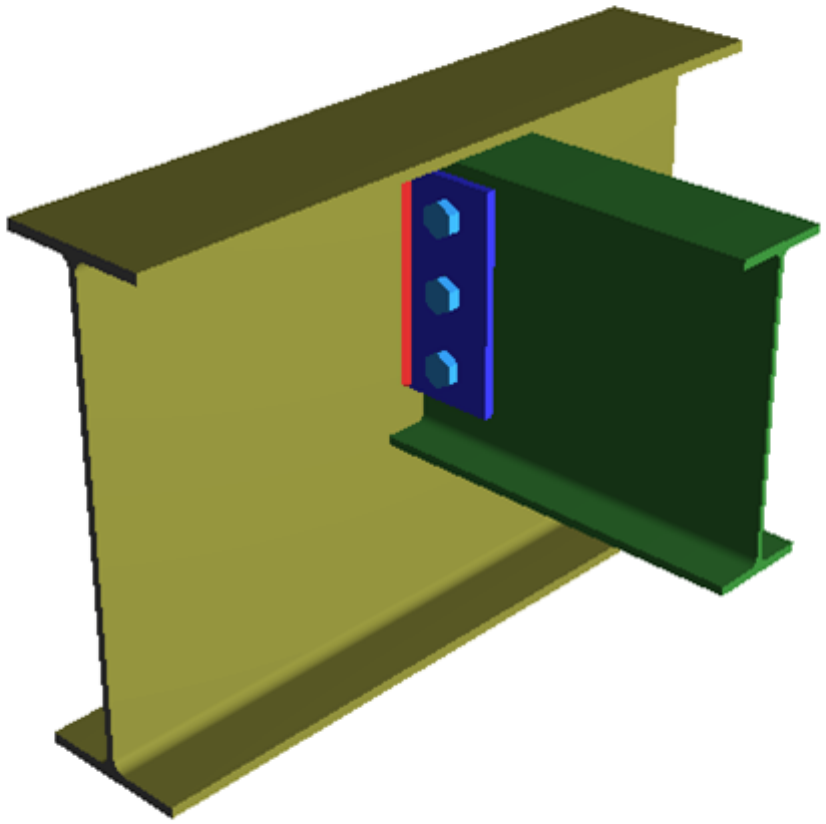
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	7.60 kips	78.89 kips	**0.10**	**PASS**
Plate Shear Yield	7.60 kips	72.90 kips	**0.10**	**PASS**
Beam Shear Rupture	7.60 kips	58.87 kips	**0.13**	**PASS**
Plate Shear Rupture at Beam	7.60 kips	62.40 kips	**0.12**	**PASS**
Beam Block Shear	7.60 kips	52.06 kips	**0.15**	**PASS**
Plate Block Shear	7.60 kips	71.05 kips	**0.11**	**PASS**
Lateral Stability / Stabilizer Plates	7.60 kips	503.22 kips	**0.02**	**PASS**
Plate Flexural Yield			**0.01**	**PASS**
Plate Flexural Rupture			**0.02**	**PASS**
Plate Flexural Buckling	7.60 kips	121.05 kips	**0.06**	**PASS**
Coped Beam Flexural Rupture	7.60 kips	92.10 kips	**0.08**	**PASS**
Coped Beam Local Web Buckling	7.60 kips	85.02 kips	**0.09**	**PASS**
Bolt Bearing on Beam	7.60 kips	53.68 kips	**0.14**	**PASS**
Bolt Bearing on Plate at Beam	7.60 kips	53.68 kips	**0.14**	**PASS**
Bolt Shear at Beam	7.60 kips	48.57 kips	**0.16**	**PASS**
Bolt Group Eccentricity		***0.90***		
Girder Weld Strength	16.89 kips/ft	133.63 kips/ft	**0.13**	**PASS**

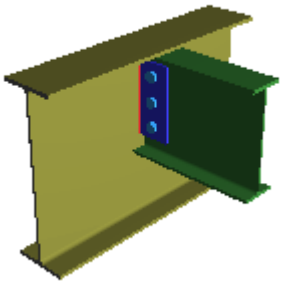
F1_G25 I - F1_G17: Connection Properties Report

Connection	
Connection Title	F1_G25 I - F1_G17
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	7.598 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W16X26
Material	A992
Beam Section	W12X19
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x9.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	9.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	3
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.010 in
Web Cope Top Length	3.308 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_G25 J - F1_G22: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W21X44	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W12X19	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x9.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-7.65 kips	*User Input Shear Load*
Axial Load	-0.00 kips	*User Input Axial Force*

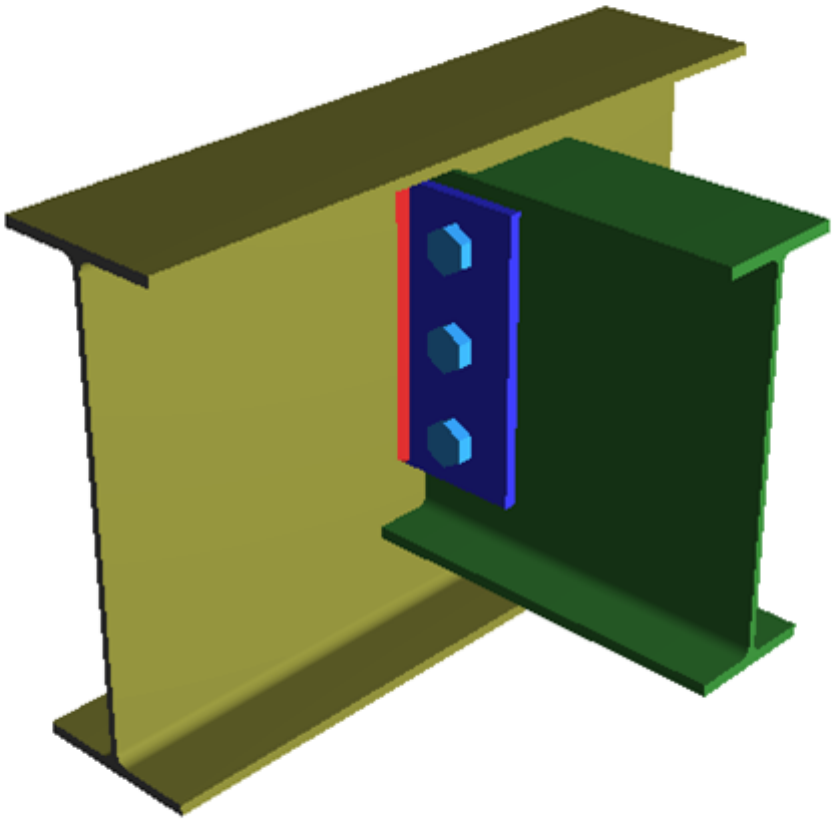
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	7.65 kips	78.89 kips	**0.10**	**PASS**
Plate Shear Yield	7.65 kips	72.90 kips	**0.10**	**PASS**
Beam Shear Rupture	7.65 kips	58.87 kips	**0.13**	**PASS**
Plate Shear Rupture at Beam	7.65 kips	62.40 kips	**0.12**	**PASS**
Beam Block Shear	7.65 kips	84.44 kips	**0.09**	**PASS**
Plate Block Shear	7.65 kips	71.05 kips	**0.11**	**PASS**
Lateral Stability / Stabilizer Plates	7.65 kips	503.22 kips	**0.02**	**PASS**
Plate Flexural Yield			**0.01**	**PASS**
Plate Flexural Rupture			**0.02**	**PASS**
Plate Flexural Buckling	7.65 kips	121.05 kips	**0.06**	**PASS**
Coped Beam Flexural Rupture	7.65 kips	92.10 kips	**0.08**	**PASS**
Coped Beam Local Web Buckling	7.65 kips	85.02 kips	**0.09**	**PASS**
Bolt Bearing on Beam	7.65 kips	53.68 kips	**0.14**	**PASS**
Bolt Bearing on Plate at Beam	7.65 kips	53.68 kips	**0.14**	**PASS**
Bolt Shear at Beam	7.65 kips	48.57 kips	**0.16**	**PASS**
Bolt Group Eccentricity		***0.90***		
Girder Weld Strength	17.00 kips/ft	133.63 kips/ft	**0.13**	**PASS**

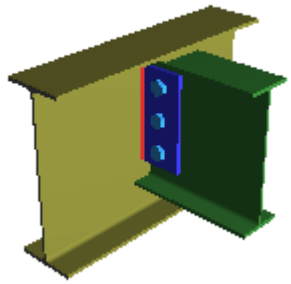
F1_G25 J - F1_G22: Connection Properties Report

Connection	
Connection Title	F1_G25 J - F1_G22
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	-7.651 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W21X44
Material	A992
Beam Section	W12X19
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x9.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	9.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	3
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.010 in
Web Cope Top Length	3.308 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_G26 I - F1_G17: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W16X26	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W12X19	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x9.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	5.45 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force*

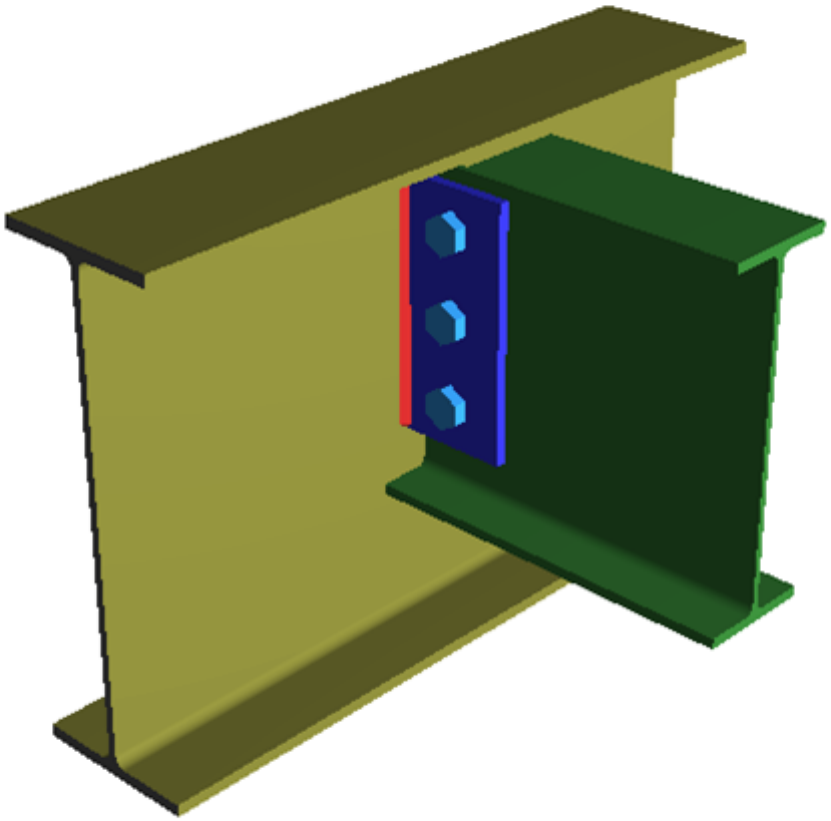
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	5.45 kips	78.89 kips	**0.07**	**PASS**
Plate Shear Yield	5.45 kips	72.90 kips	**0.07**	**PASS**
Beam Shear Rupture	5.45 kips	58.87 kips	**0.09**	**PASS**
Plate Shear Rupture at Beam	5.45 kips	62.40 kips	**0.09**	**PASS**
Beam Block Shear	5.45 kips	52.06 kips	**0.10**	**PASS**
Plate Block Shear	5.45 kips	71.05 kips	**0.08**	**PASS**
Lateral Stability / Stabilizer Plates	5.45 kips	503.22 kips	**0.01**	**PASS**
Plate Flexural Yield			**0.01**	**PASS**
Plate Flexural Rupture			**0.01**	**PASS**
Plate Flexural Buckling	5.45 kips	121.05 kips	**0.05**	**PASS**
Coped Beam Flexural Rupture	5.45 kips	92.10 kips	**0.06**	**PASS**
Coped Beam Local Web Buckling	5.45 kips	85.02 kips	**0.06**	**PASS**
Bolt Bearing on Beam	5.45 kips	53.68 kips	**0.10**	**PASS**
Bolt Bearing on Plate at Beam	5.45 kips	53.68 kips	**0.10**	**PASS**
Bolt Shear at Beam	5.45 kips	48.57 kips	**0.11**	**PASS**
Bolt Group Eccentricity		***0.90***		
Girder Weld Strength	12.11 kips/ft	133.63 kips/ft	**0.09**	**PASS**

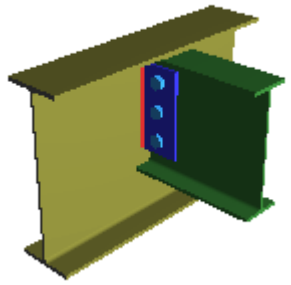
F1_G26 I - F1_G17: Connection Properties Report

Connection	
Connection Title	F1_G26 I - F1_G17
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	5.450 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W16X26
Material	A992
Beam Section	W12X19
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x9.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	9.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	3
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.010 in
Web Cope Top Length	3.308 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_G26 J - F1_G13: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W18X35	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W12X19	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x9.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-5.52 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force*

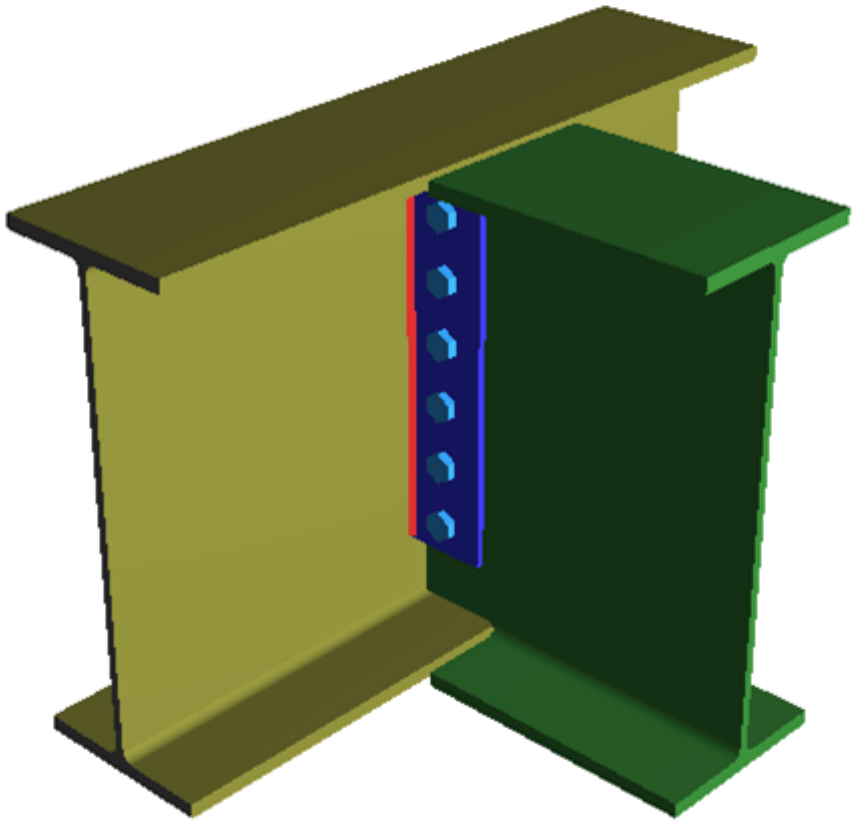
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	5.52 kips	78.89 kips	**0.07**	**PASS**
Plate Shear Yield	5.52 kips	72.90 kips	**0.08**	**PASS**
Beam Shear Rupture	5.52 kips	58.87 kips	**0.09**	**PASS**
Plate Shear Rupture at Beam	5.52 kips	62.40 kips	**0.09**	**PASS**
Beam Block Shear	5.52 kips	84.44 kips	**0.07**	**PASS**
Plate Block Shear	5.52 kips	71.05 kips	**0.08**	**PASS**
Lateral Stability / Stabilizer Plates	5.52 kips	503.22 kips	**0.01**	**PASS**
Plate Flexural Yield			**0.01**	**PASS**
Plate Flexural Rupture			**0.01**	**PASS**
Plate Flexural Buckling	5.52 kips	121.05 kips	**0.05**	**PASS**
Coped Beam Flexural Rupture	5.52 kips	92.10 kips	**0.06**	**PASS**
Coped Beam Local Web Buckling	5.52 kips	85.02 kips	**0.06**	**PASS**
Bolt Bearing on Beam	5.52 kips	53.68 kips	**0.10**	**PASS**
Bolt Bearing on Plate at Beam	5.52 kips	53.68 kips	**0.10**	**PASS**
Bolt Shear at Beam	5.52 kips	48.57 kips	**0.11**	**PASS**
Bolt Group Eccentricity		***0.90***		
Girder Weld Strength	12.26 kips/ft	133.63 kips/ft	**0.09**	**PASS**

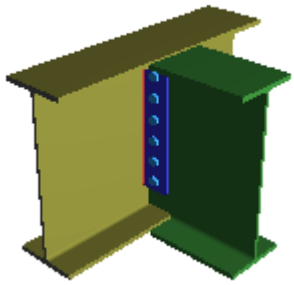
F1_G26 J - F1_G13: Connection Properties Report

Connection	
Connection Title	F1_G26 J - F1_G13
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	-5.517 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W18X35
Material	A992
Beam Section	W12X19
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x9.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	9.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	3
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.010 in
Web Cope Top Length	3.308 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_G37 J - F1_G31: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W24X76	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W24X76	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x18.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-50.42 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force (compression)*

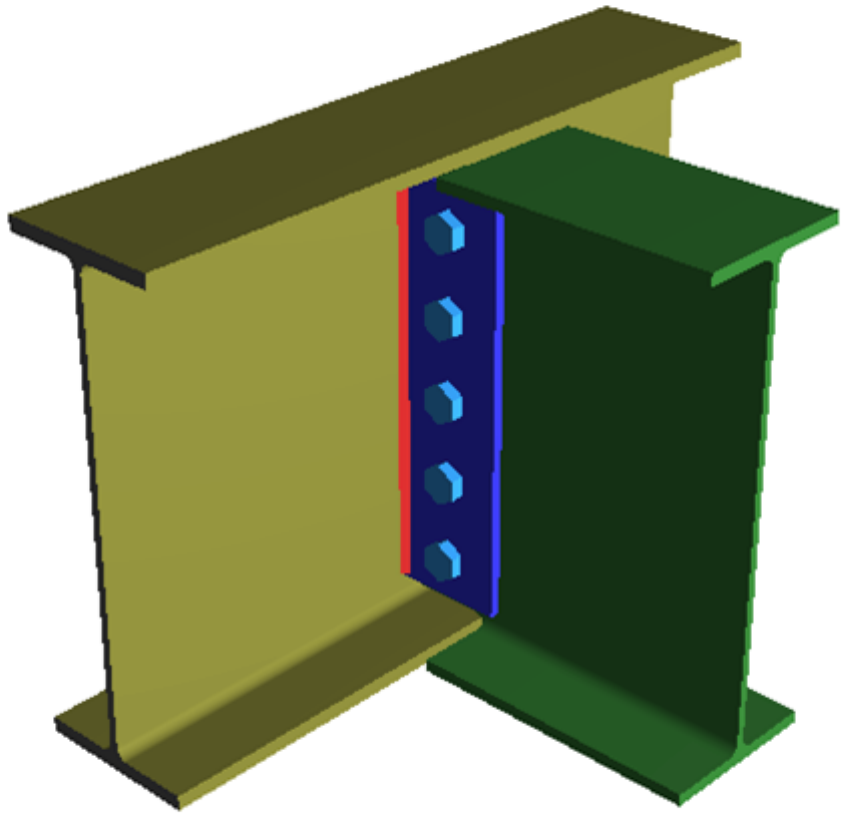
Governing LC: 3D - 5 - IBC 16-3 (b) (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	50.42 kips	284.33 kips	**0.18**	**PASS**
Plate Shear Yield	50.42 kips	145.80 kips	**0.35**	**PASS**
Beam Shear Rupture	50.42 kips	209.65 kips	**0.24**	**PASS**
Plate Shear Rupture at Beam	50.42 kips	124.79 kips	**0.40**	**PASS**
Beam Block Shear	50.42 kips	209.02 kips	**0.24**	**PASS**
Plate Block Shear	50.42 kips	125.73 kips	**0.40**	**PASS**
Lateral Stability / Stabilizer Plates	50.42 kips	1006.44 kips	**0.05**	**PASS**
Plate Flexural Yield			**0.13**	**PASS**
Plate Flexural Rupture			**0.17**	**PASS**
Plate Flexural Buckling	50.42 kips	234.80 kips	**0.21**	**PASS**
Coped Beam Flexural Rupture	50.42 kips	347.37 kips	**0.15**	**PASS**
Coped Beam Lateral Torsional Buckling	50.42 kips	320.65 kips	**0.16**	**PASS**
Bolt Bearing on Beam	50.42 kips	107.35 kips	**0.47**	**PASS**
Bolt Bearing on Plate at Beam	50.42 kips	107.35 kips	**0.47**	**PASS**
Bolt Shear at Beam	50.42 kips	97.43 kips	**0.52**	**PASS**
Bolt Group Eccentricity		***0.91***		
Girder Weld Strength	40.40 kips/ft	133.63 kips/ft	**0.30**	**PASS**

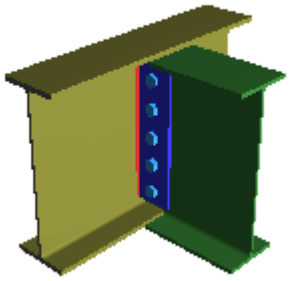
F1_G37 J - F1_G31: Connection Properties Report

Connection	
Connection Title	F1_G37 J - F1_G31
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	-50.424 kips
Axial Load	0.002 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W24X76
Material	A992
Beam Section	W24X76
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x18.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	18.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	6
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.180 in
Web Cope Top Length	4.275 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	1.180 in
Web Cope Bottom Length	4.275 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.938 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_G39 I - F1_G33: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W18X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W18X35	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x15.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	16.16 kips	*User Input Shear Load*
Axial Load	-0.00 kips	*User Input Axial Force*

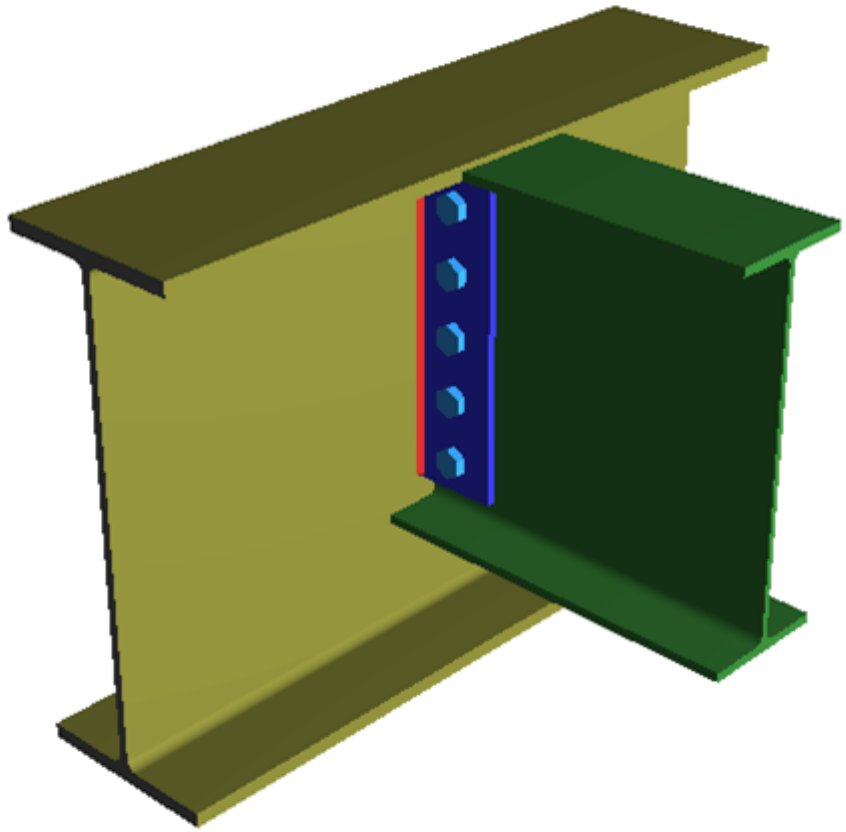
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	16.16 kips	142.77 kips	**0.11**	**PASS**
Plate Shear Yield	16.16 kips	121.50 kips	**0.13**	**PASS**
Beam Shear Rupture	16.16 kips	100.81 kips	**0.16**	**PASS**
Plate Shear Rupture at Beam	16.16 kips	103.99 kips	**0.16**	**PASS**
Beam Block Shear	16.16 kips	103.75 kips	**0.16**	**PASS**
Plate Block Shear	16.16 kips	107.50 kips	**0.15**	**PASS**
Lateral Stability / Stabilizer Plates	16.16 kips	838.70 kips	**0.02**	**PASS**
Plate Flexural Yield			**0.02**	**PASS**
Plate Flexural Rupture			**0.02**	**PASS**
Plate Flexural Buckling	16.16 kips	327.60 kips	**0.05**	**PASS**
Coped Beam Flexural Rupture	16.16 kips	161.09 kips	**0.10**	**PASS**
Coped Beam Lateral Torsional Buckling	16.16 kips	148.70 kips	**0.11**	**PASS**
Bolt Bearing on Beam	16.16 kips	89.46 kips	**0.18**	**PASS**
Bolt Bearing on Plate at Beam	16.16 kips	89.46 kips	**0.18**	**PASS**
Bolt Shear at Beam	16.16 kips	85.29 kips	**0.19**	**PASS**
Bolt Group Eccentricity		***0.95***		
Girder Weld Strength	16.55 kips/ft	133.63 kips/ft	**0.12**	**PASS**

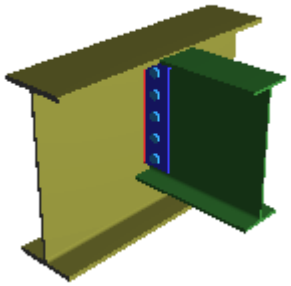
F1_G39 I - F1_G33: Connection Properties Report

Connection	
Connection Title	F1_G39 I - F1_G33
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	16.157 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W18X40
Material	A992
Beam Section	W18X35
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x15.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	15.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	5
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.010 in
Web Cope Top Length	3.308 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.827 in
Web Cope Bottom Length	2.853 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_G39 J - F1_G38: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W24X76	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W18X35	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x15.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-16.16 kips	*User Input Shear Load*
Axial Load	-0.00 kips	*User Input Axial Force*

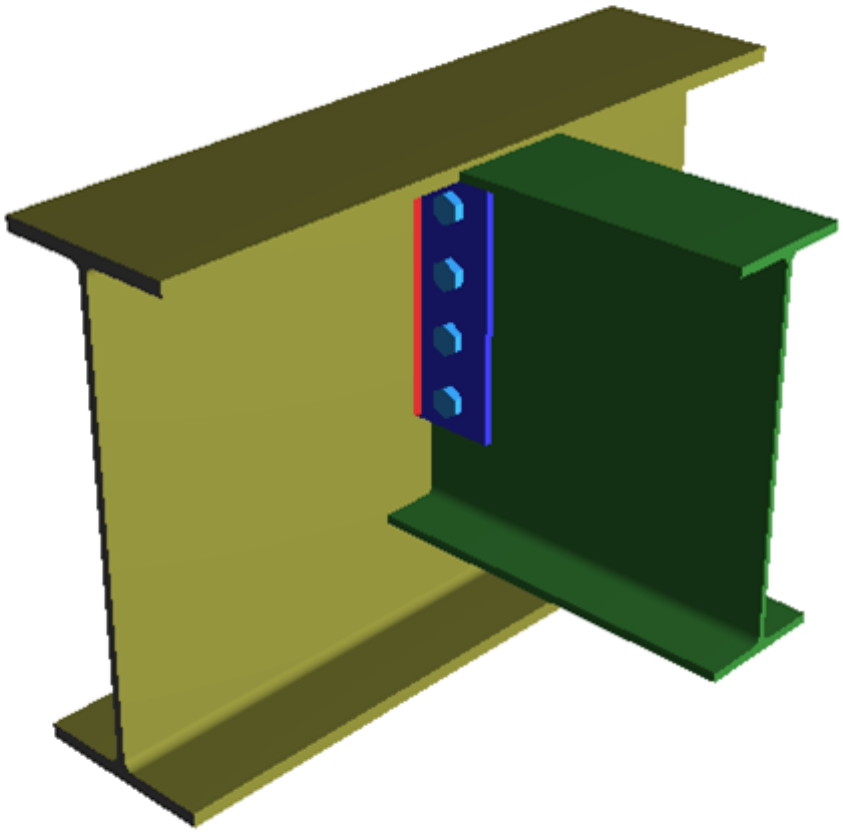
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	16.16 kips	148.68 kips	**0.11**	**PASS**
Plate Shear Yield	16.16 kips	121.50 kips	**0.13**	**PASS**
Beam Shear Rupture	16.16 kips	106.57 kips	**0.15**	**PASS**
Plate Shear Rupture at Beam	16.16 kips	103.99 kips	**0.16**	**PASS**
Beam Block Shear	16.16 kips	143.45 kips	**0.11**	**PASS**
Plate Block Shear	16.16 kips	107.50 kips	**0.15**	**PASS**
Lateral Stability / Stabilizer Plates	16.16 kips	838.70 kips	**0.02**	**PASS**
Plate Flexural Yield			**0.02**	**PASS**
Plate Flexural Rupture			**0.02**	**PASS**
Plate Flexural Buckling	16.16 kips	327.60 kips	**0.05**	**PASS**
Coped Beam Flexural Rupture	16.16 kips	204.27 kips	**0.08**	**PASS**
Coped Beam Local Web Buckling	16.16 kips	188.55 kips	**0.09**	**PASS**
Bolt Bearing on Beam	16.16 kips	89.46 kips	**0.18**	**PASS**
Bolt Bearing on Plate at Beam	16.16 kips	89.46 kips	**0.18**	**PASS**
Bolt Shear at Beam	16.16 kips	85.29 kips	**0.19**	**PASS**
Bolt Group Eccentricity		***0.95***		
Girder Weld Strength	16.55 kips/ft	133.63 kips/ft	**0.12**	**PASS**

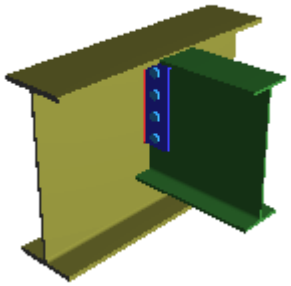
F1_G39 J - F1_G38: Connection Properties Report

Connection	
Connection Title	F1_G39 J - F1_G38
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	-16.157 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W24X76
Material	A992
Beam Section	W18X35
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x15.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	15.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	5
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.180 in
Web Cope Top Length	4.275 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_G40 I - F1_G38: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W24X76	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W18X35	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	16.41 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force (compression)*

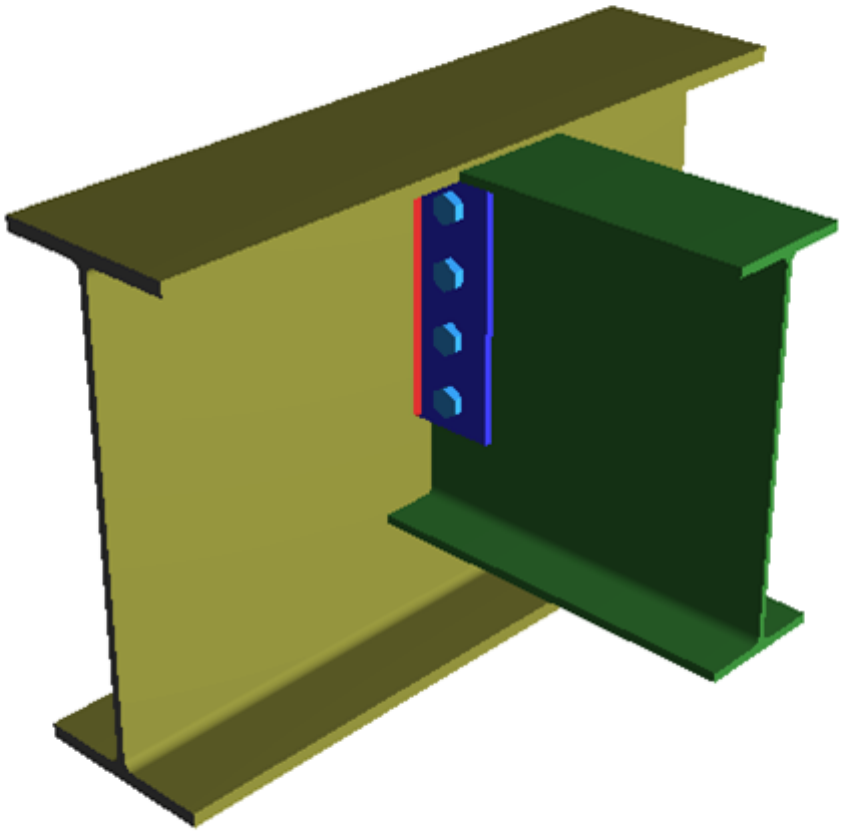
Governing LC: 3D - 5 - IBC 16-3 (b) (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	16.41 kips	148.68 kips	**0.11**	**PASS**
Plate Shear Yield	16.41 kips	97.20 kips	**0.17**	**PASS**
Beam Shear Rupture	16.41 kips	114.25 kips	**0.14**	**PASS**
Plate Shear Rupture at Beam	16.41 kips	83.19 kips	**0.20**	**PASS**
Beam Block Shear	16.41 kips	83.61 kips	**0.20**	**PASS**
Plate Block Shear	16.41 kips	89.28 kips	**0.18**	**PASS**
Lateral Stability / Stabilizer Plates	16.41 kips	670.96 kips	**0.02**	**PASS**
Plate Flexural Yield			**0.03**	**PASS**
Plate Flexural Rupture			**0.04**	**PASS**
Plate Flexural Buckling	16.41 kips	211.41 kips	**0.08**	**PASS**
Coped Beam Flexural Rupture	16.41 kips	204.27 kips	**0.08**	**PASS**
Coped Beam Local Web Buckling	16.41 kips	188.55 kips	**0.09**	**PASS**
Bolt Bearing on Beam	16.41 kips	71.57 kips	**0.23**	**PASS**
Bolt Bearing on Plate at Beam	16.41 kips	71.57 kips	**0.23**	**PASS**
Bolt Shear at Beam	16.41 kips	67.12 kips	**0.24**	**PASS**
Bolt Group Eccentricity		***0.94***		
Girder Weld Strength	23.21 kips/ft	133.63 kips/ft	**0.17**	**PASS**

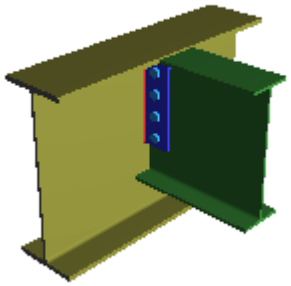
F1_G40 I - F1_G38: Connection Properties Report

Connection	
Connection Title	F1_G40 I - F1_G38
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	16.410 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W24X76
Material	A992
Beam Section	W18X35
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x12.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	12.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	4
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.180 in
Web Cope Top Length	4.275 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_G40 J - F1_G37: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W24X76	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W18X35	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-16.44 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force (compression)*

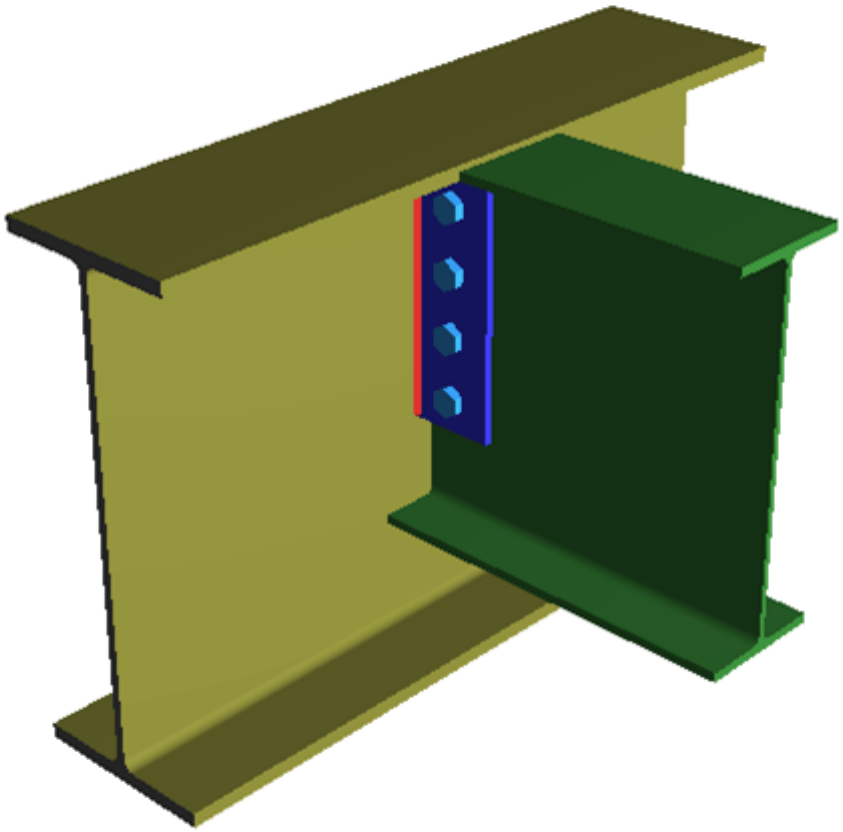
Governing LC: 3D - 7 - IBC 16-3 (b) (c)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	16.44 kips	148.68 kips	**0.11**	**PASS**
Plate Shear Yield	16.44 kips	97.20 kips	**0.17**	**PASS**
Beam Shear Rupture	16.44 kips	114.25 kips	**0.14**	**PASS**
Plate Shear Rupture at Beam	16.44 kips	83.19 kips	**0.20**	**PASS**
Beam Block Shear	16.44 kips	143.45 kips	**0.11**	**PASS**
Plate Block Shear	16.44 kips	89.28 kips	**0.18**	**PASS**
Lateral Stability / Stabilizer Plates	16.44 kips	670.96 kips	**0.02**	**PASS**
Plate Flexural Yield			**0.03**	**PASS**
Plate Flexural Rupture			**0.04**	**PASS**
Plate Flexural Buckling	16.44 kips	211.41 kips	**0.08**	**PASS**
Coped Beam Flexural Rupture	16.44 kips	204.27 kips	**0.08**	**PASS**
Coped Beam Local Web Buckling	16.44 kips	188.55 kips	**0.09**	**PASS**
Bolt Bearing on Beam	16.44 kips	71.57 kips	**0.23**	**PASS**
Bolt Bearing on Plate at Beam	16.44 kips	71.57 kips	**0.23**	**PASS**
Bolt Shear at Beam	16.44 kips	67.12 kips	**0.24**	**PASS**
Bolt Group Eccentricity		***0.94***		
Girder Weld Strength	23.25 kips/ft	133.63 kips/ft	**0.17**	**PASS**

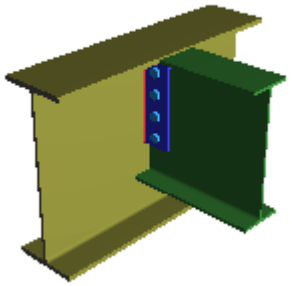
F1_G40 J - F1_G37: Connection Properties Report

Connection	
Connection Title	F1_G40 J - F1_G37
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	-16.442 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W24X76
Material	A992
Beam Section	W18X35
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x12.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	12.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	4
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.180 in
Web Cope Top Length	4.275 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_G41 I - F1_G37: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W24X76	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W18X35	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	16.16 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force*

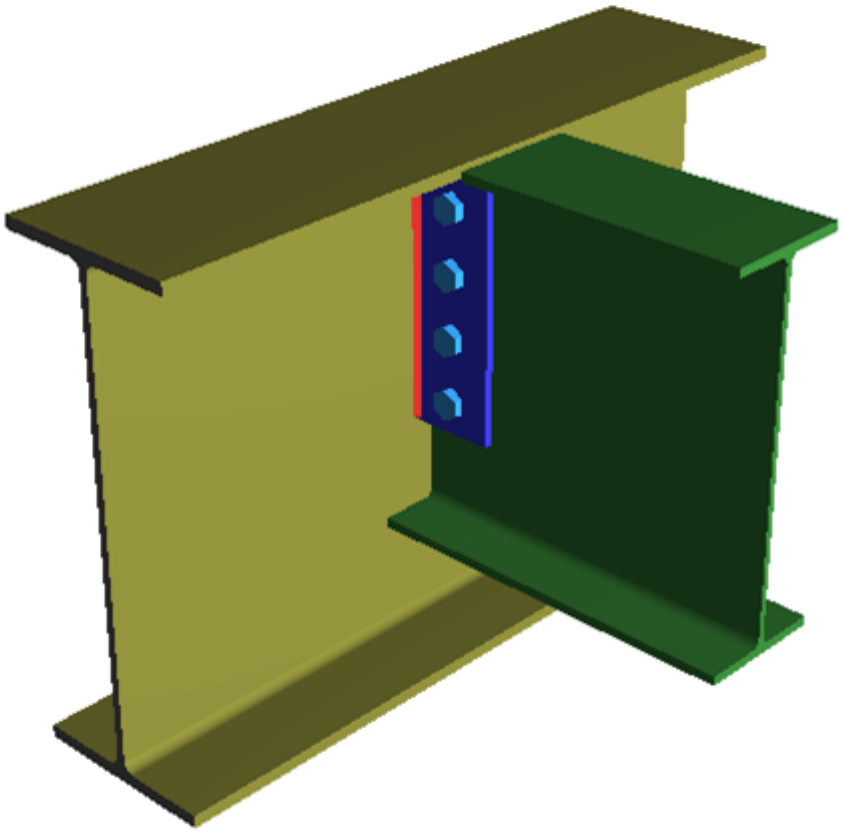
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	16.16 kips	148.68 kips	**0.11**	**PASS**
Plate Shear Yield	16.16 kips	97.20 kips	**0.17**	**PASS**
Beam Shear Rupture	16.16 kips	114.25 kips	**0.14**	**PASS**
Plate Shear Rupture at Beam	16.16 kips	83.19 kips	**0.19**	**PASS**
Beam Block Shear	16.16 kips	83.61 kips	**0.19**	**PASS**
Plate Block Shear	16.16 kips	89.28 kips	**0.18**	**PASS**
Lateral Stability / Stabilizer Plates	16.16 kips	670.96 kips	**0.02**	**PASS**
Plate Flexural Yield			**0.03**	**PASS**
Plate Flexural Rupture			**0.04**	**PASS**
Plate Flexural Buckling	16.16 kips	211.41 kips	**0.08**	**PASS**
Coped Beam Flexural Rupture	16.16 kips	204.27 kips	**0.08**	**PASS**
Coped Beam Local Web Buckling	16.16 kips	188.55 kips	**0.09**	**PASS**
Bolt Bearing on Beam	16.16 kips	71.57 kips	**0.23**	**PASS**
Bolt Bearing on Plate at Beam	16.16 kips	71.57 kips	**0.23**	**PASS**
Bolt Shear at Beam	16.16 kips	67.12 kips	**0.24**	**PASS**
Bolt Group Eccentricity		***0.94***		
Girder Weld Strength	22.85 kips/ft	133.63 kips/ft	**0.17**	**PASS**

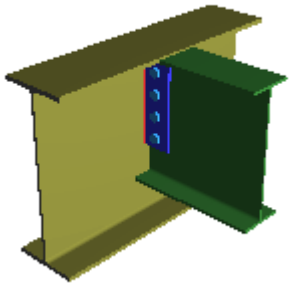
F1_G41 I - F1_G37: Connection Properties Report

Connection	
Connection Title	F1_G41 I - F1_G37
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	16.157 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W24X76
Material	A992
Beam Section	W18X35
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x12.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	12.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	4
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.180 in
Web Cope Top Length	4.275 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_G41 J - F1_G23: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W24X68	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W18X35	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-16.16 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force*

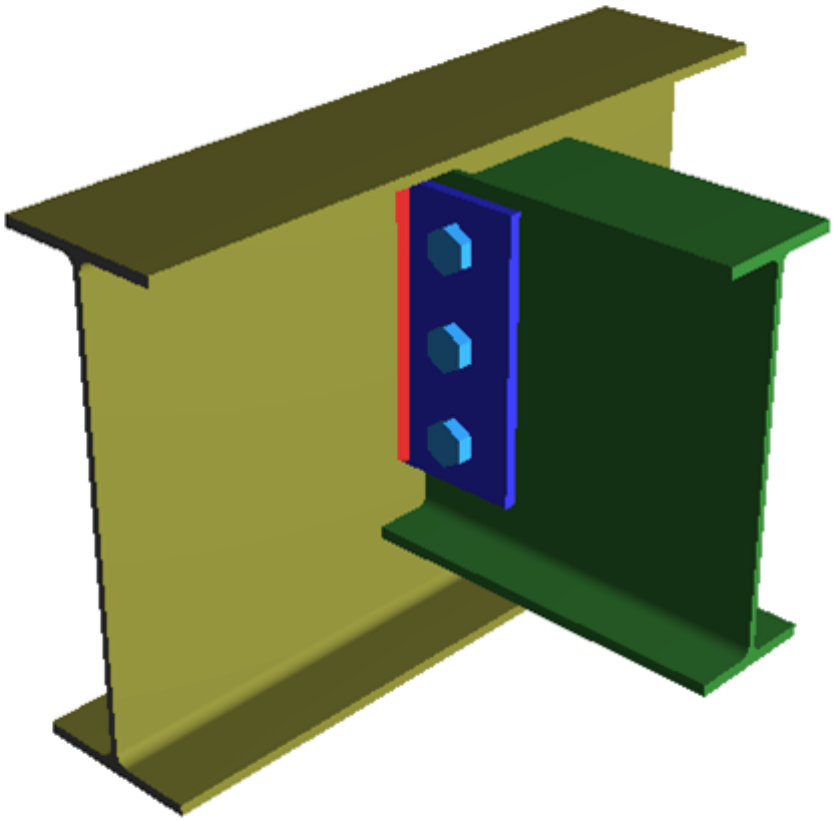
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	16.16 kips	149.49 kips	**0.11**	**PASS**
Plate Shear Yield	16.16 kips	97.20 kips	**0.17**	**PASS**
Beam Shear Rupture	16.16 kips	115.04 kips	**0.14**	**PASS**
Plate Shear Rupture at Beam	16.16 kips	83.19 kips	**0.19**	**PASS**
Beam Block Shear	16.16 kips	143.45 kips	**0.11**	**PASS**
Plate Block Shear	16.16 kips	89.28 kips	**0.18**	**PASS**
Lateral Stability / Stabilizer Plates	16.16 kips	670.96 kips	**0.02**	**PASS**
Plate Flexural Yield			**0.03**	**PASS**
Plate Flexural Rupture			**0.04**	**PASS**
Plate Flexural Buckling	16.16 kips	211.41 kips	**0.08**	**PASS**
Coped Beam Flexural Rupture	16.16 kips	206.23 kips	**0.08**	**PASS**
Coped Beam Local Web Buckling	16.16 kips	190.37 kips	**0.08**	**PASS**
Bolt Bearing on Beam	16.16 kips	71.57 kips	**0.23**	**PASS**
Bolt Bearing on Plate at Beam	16.16 kips	71.57 kips	**0.23**	**PASS**
Bolt Shear at Beam	16.16 kips	67.12 kips	**0.24**	**PASS**
Bolt Group Eccentricity		***0.94***		
Girder Weld Strength	22.85 kips/ft	133.63 kips/ft	**0.17**	**PASS**

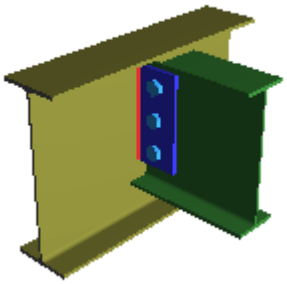
F1_G41 J - F1_G23: Connection Properties Report

Connection	
Connection Title	F1_G41 J - F1_G23
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	-16.157 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W24X68
Material	A992
Beam Section	W18X35
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x12.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	12.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	4
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.090 in
Web Cope Top Length	4.278 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_J148 I - F1_G17: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W16X26	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W12X19	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x9.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	6.19 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force*

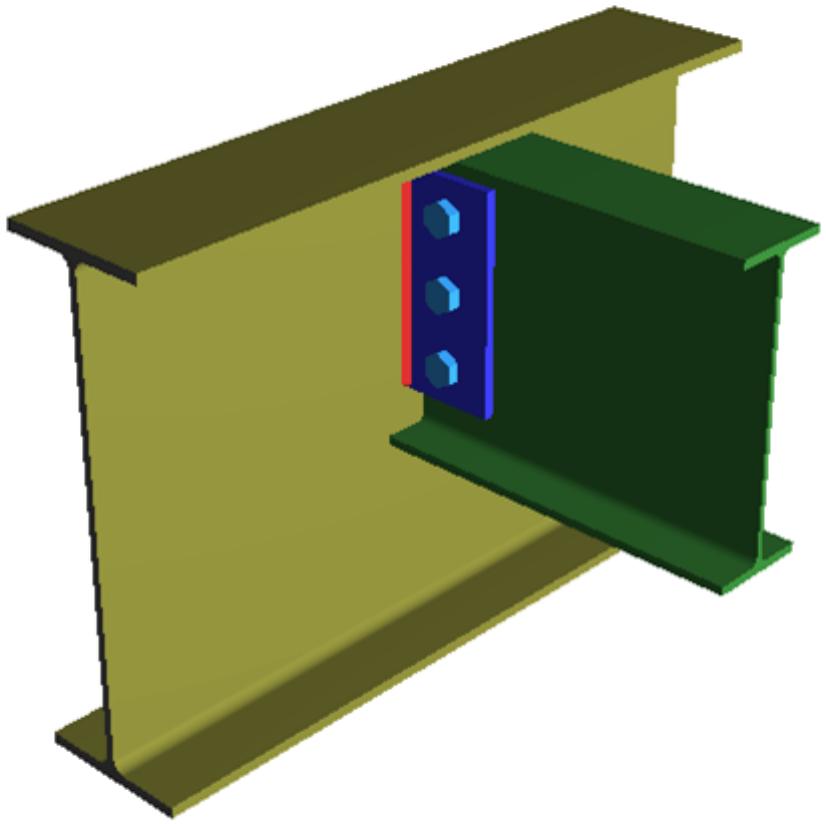
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	6.19 kips	78.89 kips	**0.08**	**PASS**
Plate Shear Yield	6.19 kips	72.90 kips	**0.08**	**PASS**
Beam Shear Rupture	6.19 kips	58.87 kips	**0.11**	**PASS**
Plate Shear Rupture at Beam	6.19 kips	62.40 kips	**0.10**	**PASS**
Beam Block Shear	6.19 kips	52.06 kips	**0.12**	**PASS**
Plate Block Shear	6.19 kips	71.05 kips	**0.09**	**PASS**
Lateral Stability / Stabilizer Plates	6.19 kips	503.22 kips	**0.01**	**PASS**
Plate Flexural Yield			**0.01**	**PASS**
Plate Flexural Rupture			**0.01**	**PASS**
Plate Flexural Buckling	6.19 kips	121.05 kips	**0.05**	**PASS**
Coped Beam Flexural Rupture	6.19 kips	92.10 kips	**0.07**	**PASS**
Coped Beam Local Web Buckling	6.19 kips	85.02 kips	**0.07**	**PASS**
Bolt Bearing on Beam	6.19 kips	53.68 kips	**0.12**	**PASS**
Bolt Bearing on Plate at Beam	6.19 kips	53.68 kips	**0.12**	**PASS**
Bolt Shear at Beam	6.19 kips	48.57 kips	**0.13**	**PASS**
Bolt Group Eccentricity		***0.90***		
Girder Weld Strength	13.76 kips/ft	133.63 kips/ft	**0.10**	**PASS**

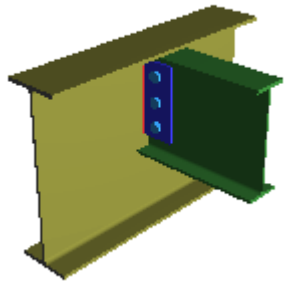
F1_J148 I - F1_G17: Connection Properties Report

Connection	
Connection Title	F1_J148 I - F1_G17
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	6.191 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W16X26
Material	A992
Beam Section	W12X19
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x9.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	9.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	3
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.010 in
Web Cope Top Length	3.308 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_J148 J - F1_G22: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W21X44	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W12X19	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x9.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-6.24 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force*

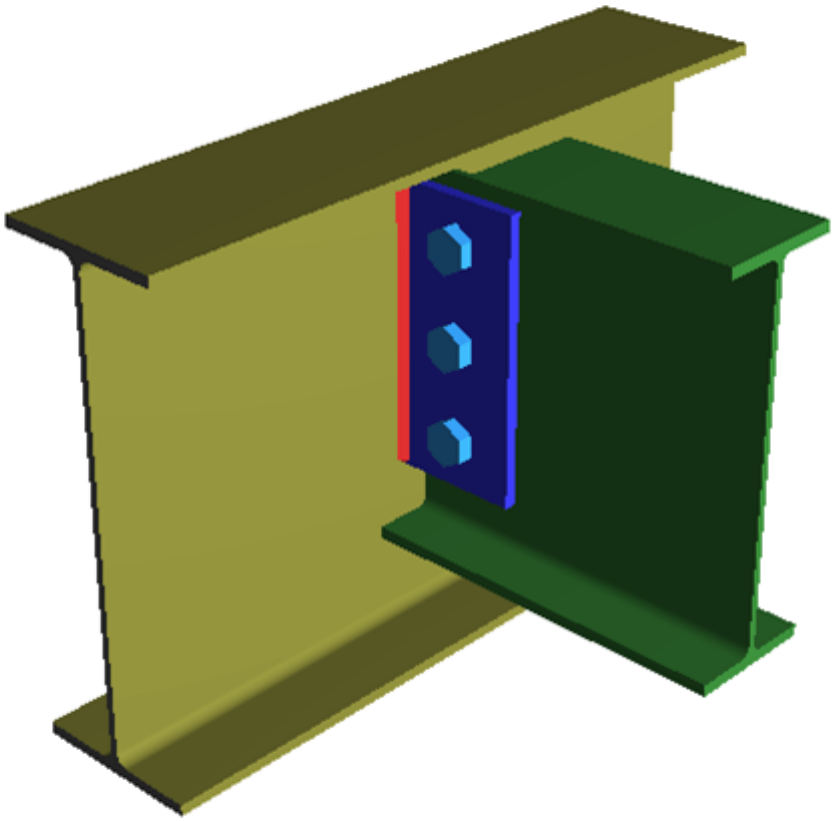
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	6.24 kips	78.89 kips	**0.08**	**PASS**
Plate Shear Yield	6.24 kips	72.90 kips	**0.09**	**PASS**
Beam Shear Rupture	6.24 kips	58.87 kips	**0.11**	**PASS**
Plate Shear Rupture at Beam	6.24 kips	62.40 kips	**0.10**	**PASS**
Beam Block Shear	6.24 kips	84.44 kips	**0.07**	**PASS**
Plate Block Shear	6.24 kips	71.05 kips	**0.09**	**PASS**
Lateral Stability / Stabilizer Plates	6.24 kips	503.22 kips	**0.01**	**PASS**
Plate Flexural Yield			**0.01**	**PASS**
Plate Flexural Rupture			**0.01**	**PASS**
Plate Flexural Buckling	6.24 kips	121.05 kips	**0.05**	**PASS**
Coped Beam Flexural Rupture	6.24 kips	92.10 kips	**0.07**	**PASS**
Coped Beam Local Web Buckling	6.24 kips	85.02 kips	**0.07**	**PASS**
Bolt Bearing on Beam	6.24 kips	53.68 kips	**0.12**	**PASS**
Bolt Bearing on Plate at Beam	6.24 kips	53.68 kips	**0.12**	**PASS**
Bolt Shear at Beam	6.24 kips	48.57 kips	**0.13**	**PASS**
Bolt Group Eccentricity		***0.90***		
Girder Weld Strength	13.87 kips/ft	133.63 kips/ft	**0.10**	**PASS**

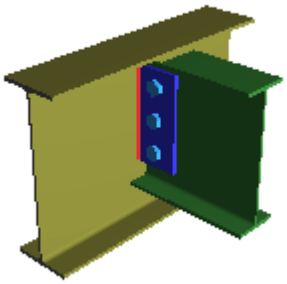
F1_J148 J - F1_G22: Connection Properties Report

Connection	
Connection Title	F1_J148 J - F1_G22
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	-6.243 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W21X44
Material	A992
Beam Section	W12X19
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x9.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	9.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	3
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.010 in
Web Cope Top Length	3.308 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_J149 I - F1_G17: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W16X26	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W12X19	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x9.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	6.98 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force*

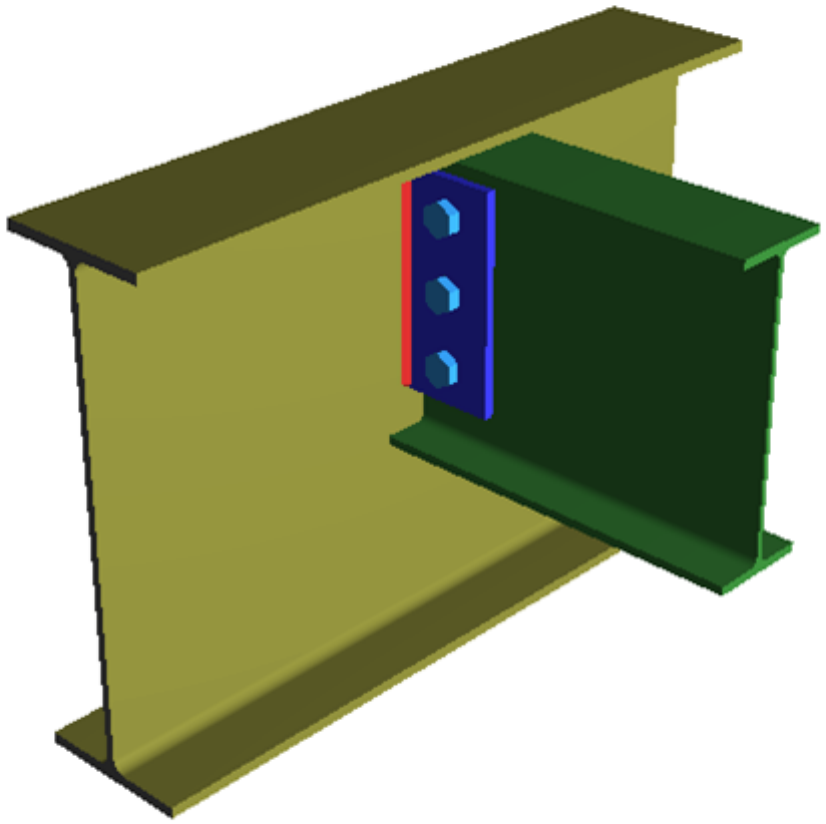
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	6.98 kips	78.89 kips	**0.09**	**PASS**
Plate Shear Yield	6.98 kips	72.90 kips	**0.10**	**PASS**
Beam Shear Rupture	6.98 kips	58.87 kips	**0.12**	**PASS**
Plate Shear Rupture at Beam	6.98 kips	62.40 kips	**0.11**	**PASS**
Beam Block Shear	6.98 kips	52.06 kips	**0.13**	**PASS**
Plate Block Shear	6.98 kips	71.05 kips	**0.10**	**PASS**
Lateral Stability / Stabilizer Plates	6.98 kips	503.22 kips	**0.01**	**PASS**
Plate Flexural Yield			**0.01**	**PASS**
Plate Flexural Rupture			**0.01**	**PASS**
Plate Flexural Buckling	6.98 kips	121.05 kips	**0.06**	**PASS**
Coped Beam Flexural Rupture	6.98 kips	92.10 kips	**0.08**	**PASS**
Coped Beam Local Web Buckling	6.98 kips	85.02 kips	**0.08**	**PASS**
Bolt Bearing on Beam	6.98 kips	53.68 kips	**0.13**	**PASS**
Bolt Bearing on Plate at Beam	6.98 kips	53.68 kips	**0.13**	**PASS**
Bolt Shear at Beam	6.98 kips	48.57 kips	**0.14**	**PASS**
Bolt Group Eccentricity		***0.90***		
Girder Weld Strength	15.51 kips/ft	133.63 kips/ft	**0.12**	**PASS**

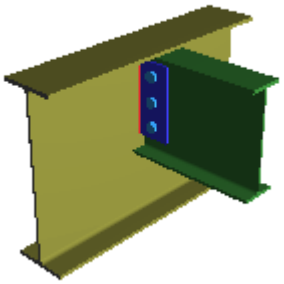
F1_J149 I - F1_G17: Connection Properties Report

Connection	
Connection Title	F1_J149 I - F1_G17
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	6.977 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W16X26
Material	A992
Beam Section	W12X19
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x9.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	9.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	3
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.010 in
Web Cope Top Length	3.308 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_J149 J - F1_G22: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W21X44	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W12X19	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x9.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-7.03 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force*

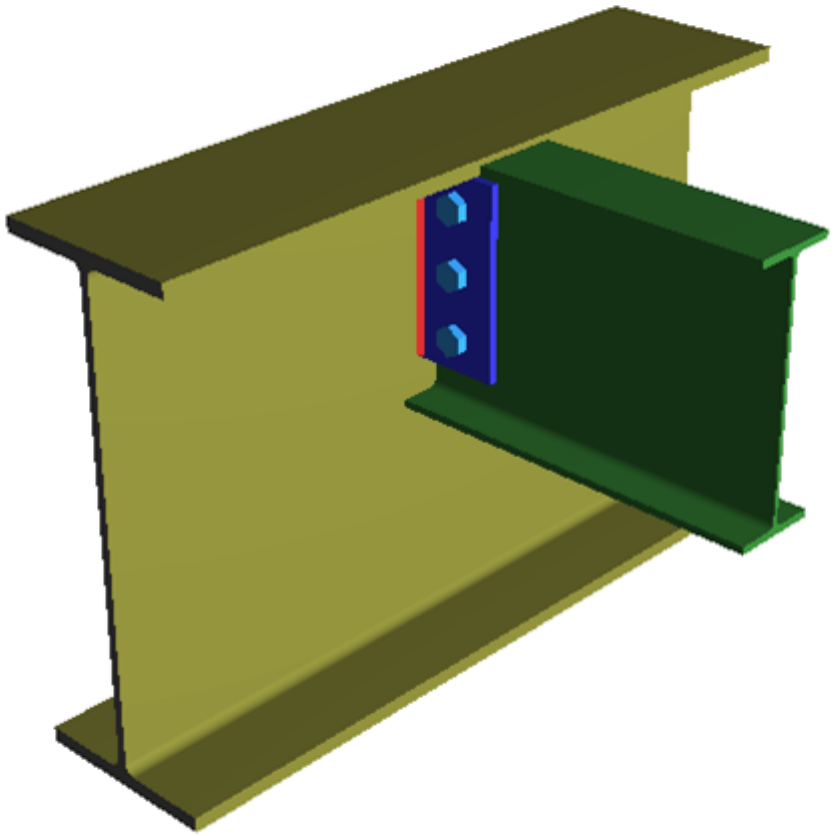
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	7.03 kips	78.89 kips	**0.09**	**PASS**
Plate Shear Yield	7.03 kips	72.90 kips	**0.10**	**PASS**
Beam Shear Rupture	7.03 kips	58.87 kips	**0.12**	**PASS**
Plate Shear Rupture at Beam	7.03 kips	62.40 kips	**0.11**	**PASS**
Beam Block Shear	7.03 kips	84.44 kips	**0.08**	**PASS**
Plate Block Shear	7.03 kips	71.05 kips	**0.10**	**PASS**
Lateral Stability / Stabilizer Plates	7.03 kips	503.22 kips	**0.01**	**PASS**
Plate Flexural Yield			**0.01**	**PASS**
Plate Flexural Rupture			**0.01**	**PASS**
Plate Flexural Buckling	7.03 kips	121.05 kips	**0.06**	**PASS**
Coped Beam Flexural Rupture	7.03 kips	92.10 kips	**0.08**	**PASS**
Coped Beam Local Web Buckling	7.03 kips	85.02 kips	**0.08**	**PASS**
Bolt Bearing on Beam	7.03 kips	53.68 kips	**0.13**	**PASS**
Bolt Bearing on Plate at Beam	7.03 kips	53.68 kips	**0.13**	**PASS**
Bolt Shear at Beam	7.03 kips	48.57 kips	**0.14**	**PASS**
Bolt Group Eccentricity		***0.90***		
Girder Weld Strength	15.62 kips/ft	133.63 kips/ft	**0.12**	**PASS**

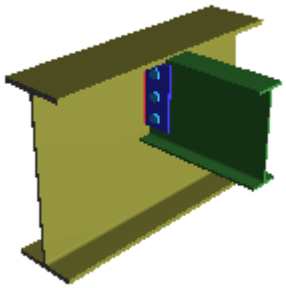
F1_J149 J - F1_G22: Connection Properties Report

Connection	
Connection Title	F1_J149 J - F1_G22
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	-7.030 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W21X44
Material	A992
Beam Section	W12X19
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x9.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	9.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	3
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.010 in
Web Cope Top Length	3.308 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_J150 I - F1_G18: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W24X76	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W12X19	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x9.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	7.99 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force*

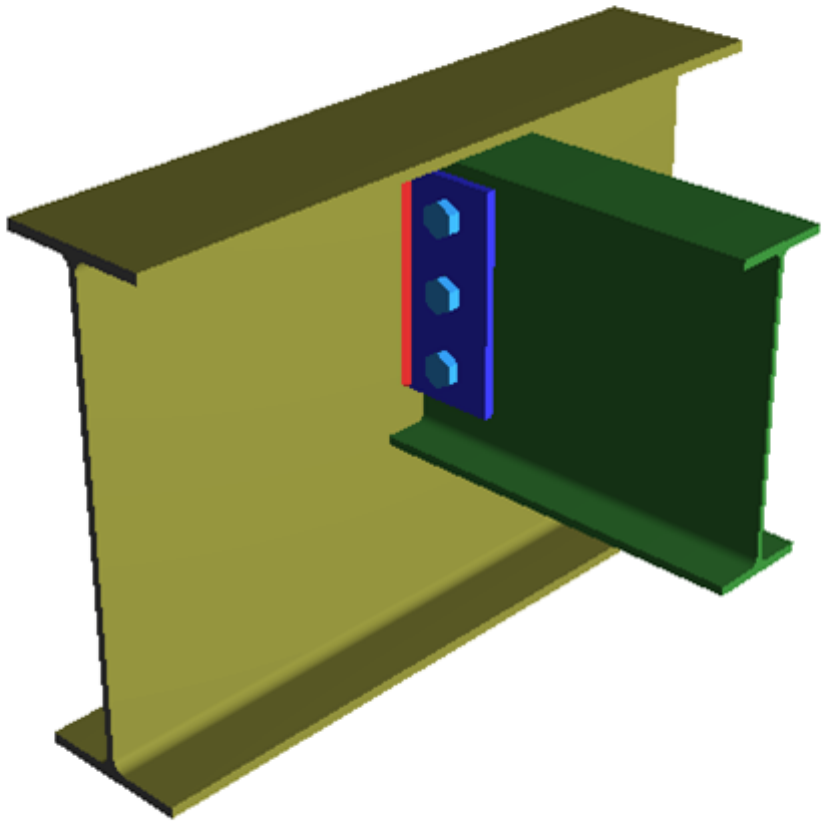
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	7.99 kips	77.69 kips	**0.10**	**PASS**
Plate Shear Yield	7.99 kips	72.90 kips	**0.11**	**PASS**
Beam Shear Rupture	7.99 kips	57.71 kips	**0.14**	**PASS**
Plate Shear Rupture at Beam	7.99 kips	62.40 kips	**0.13**	**PASS**
Beam Block Shear	7.99 kips	50.89 kips	**0.16**	**PASS**
Plate Block Shear	7.99 kips	71.05 kips	**0.11**	**PASS**
Lateral Stability / Stabilizer Plates	7.99 kips	503.22 kips	**0.02**	**PASS**
Plate Flexural Yield			**0.01**	**PASS**
Plate Flexural Rupture			**0.02**	**PASS**
Plate Flexural Buckling	7.99 kips	121.05 kips	**0.07**	**PASS**
Coped Beam Flexural Rupture	7.99 kips	71.38 kips	**0.11**	**PASS**
Coped Beam Local Web Buckling	7.99 kips	65.89 kips	**0.12**	**PASS**
Bolt Bearing on Beam	7.99 kips	53.68 kips	**0.15**	**PASS**
Bolt Bearing on Plate at Beam	7.99 kips	53.68 kips	**0.15**	**PASS**
Bolt Shear at Beam	7.99 kips	48.57 kips	**0.16**	**PASS**
Bolt Group Eccentricity		***0.90***		
Girder Weld Strength	17.76 kips/ft	133.63 kips/ft	**0.13**	**PASS**

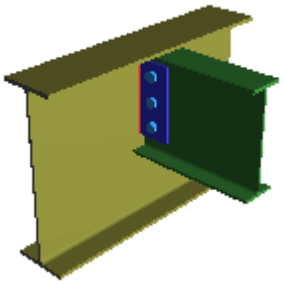
F1_J150 I - F1_G18: Connection Properties Report

Connection	
Connection Title	F1_J150 I - F1_G18
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	7.993 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W24X76
Material	A992
Beam Section	W12X19
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x9.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	9.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	3
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.180 in
Web Cope Top Length	4.275 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_J150 J - F1_G22: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W21X44	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W12X19	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x9.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-8.02 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force*

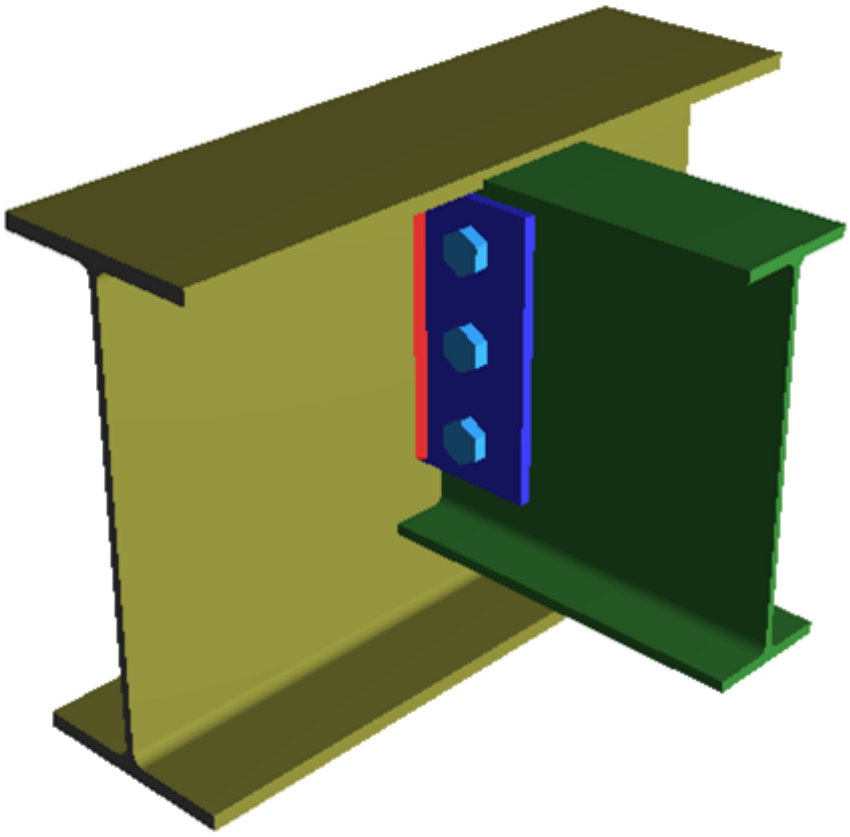
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	8.02 kips	78.89 kips	**0.10**	**PASS**
Plate Shear Yield	8.02 kips	72.90 kips	**0.11**	**PASS**
Beam Shear Rupture	8.02 kips	58.87 kips	**0.14**	**PASS**
Plate Shear Rupture at Beam	8.02 kips	62.40 kips	**0.13**	**PASS**
Beam Block Shear	8.02 kips	84.44 kips	**0.09**	**PASS**
Plate Block Shear	8.02 kips	71.05 kips	**0.11**	**PASS**
Lateral Stability / Stabilizer Plates	8.02 kips	503.22 kips	**0.02**	**PASS**
Plate Flexural Yield			**0.01**	**PASS**
Plate Flexural Rupture			**0.02**	**PASS**
Plate Flexural Buckling	8.02 kips	121.05 kips	**0.07**	**PASS**
Coped Beam Flexural Rupture	8.02 kips	92.10 kips	**0.09**	**PASS**
Coped Beam Local Web Buckling	8.02 kips	85.02 kips	**0.09**	**PASS**
Bolt Bearing on Beam	8.02 kips	53.68 kips	**0.15**	**PASS**
Bolt Bearing on Plate at Beam	8.02 kips	53.68 kips	**0.15**	**PASS**
Bolt Shear at Beam	8.02 kips	48.57 kips	**0.17**	**PASS**
Bolt Group Eccentricity		***0.90***		
Girder Weld Strength	17.82 kips/ft	133.63 kips/ft	**0.13**	**PASS**

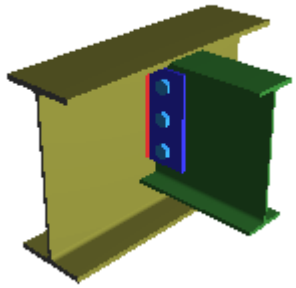
F1_J150 J - F1_G22: Connection Properties Report

Connection	
Connection Title	F1_J150 J - F1_G22
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	-8.020 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W21X44
Material	A992
Beam Section	W12X19
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x9.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	9.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	3
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.010 in
Web Cope Top Length	3.308 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_J151 I - F1_G19: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W16X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W12X19	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x9.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	10.55 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force*

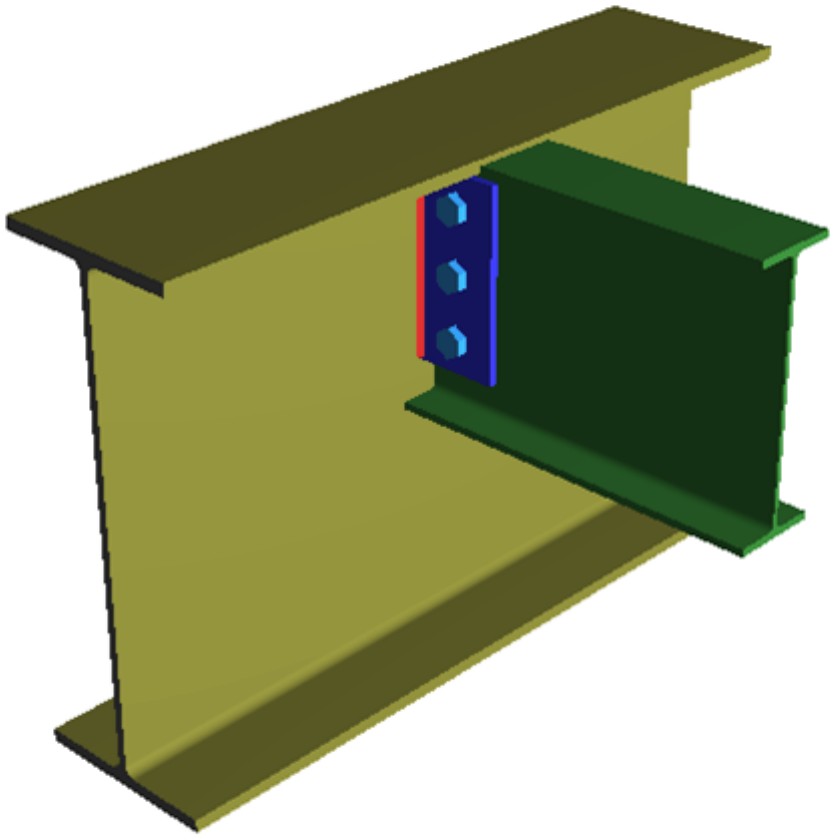
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	10.55 kips	78.89 kips	**0.13**	**PASS**
Plate Shear Yield	10.55 kips	72.90 kips	**0.14**	**PASS**
Beam Shear Rupture	10.55 kips	58.87 kips	**0.18**	**PASS**
Plate Shear Rupture at Beam	10.55 kips	62.40 kips	**0.17**	**PASS**
Beam Block Shear	10.55 kips	52.06 kips	**0.20**	**PASS**
Plate Block Shear	10.55 kips	71.05 kips	**0.15**	**PASS**
Lateral Stability / Stabilizer Plates	10.55 kips	503.22 kips	**0.02**	**PASS**
Plate Flexural Yield			**0.02**	**PASS**
Plate Flexural Rupture			**0.03**	**PASS**
Plate Flexural Buckling	10.55 kips	121.05 kips	**0.09**	**PASS**
Coped Beam Flexural Rupture	10.55 kips	91.15 kips	**0.12**	**PASS**
Coped Beam Local Web Buckling	10.55 kips	84.14 kips	**0.13**	**PASS**
Bolt Bearing on Beam	10.55 kips	53.68 kips	**0.20**	**PASS**
Bolt Bearing on Plate at Beam	10.55 kips	53.68 kips	**0.20**	**PASS**
Bolt Shear at Beam	10.55 kips	48.57 kips	**0.22**	**PASS**
Bolt Group Eccentricity		***0.90***		
Girder Weld Strength	23.44 kips/ft	133.63 kips/ft	**0.18**	**PASS**

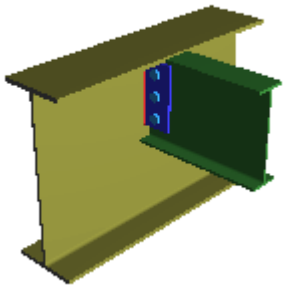
F1_J151 I - F1_G19: Connection Properties Report

Connection	
Connection Title	F1_J151 I - F1_G19
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	10.549 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W16X40
Material	A992
Beam Section	W12X19
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x9.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	9.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	3
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.010 in
Web Cope Top Length	3.348 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_J151 J - F1_G23: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W24X68	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W12X19	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x9.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-10.60 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force*

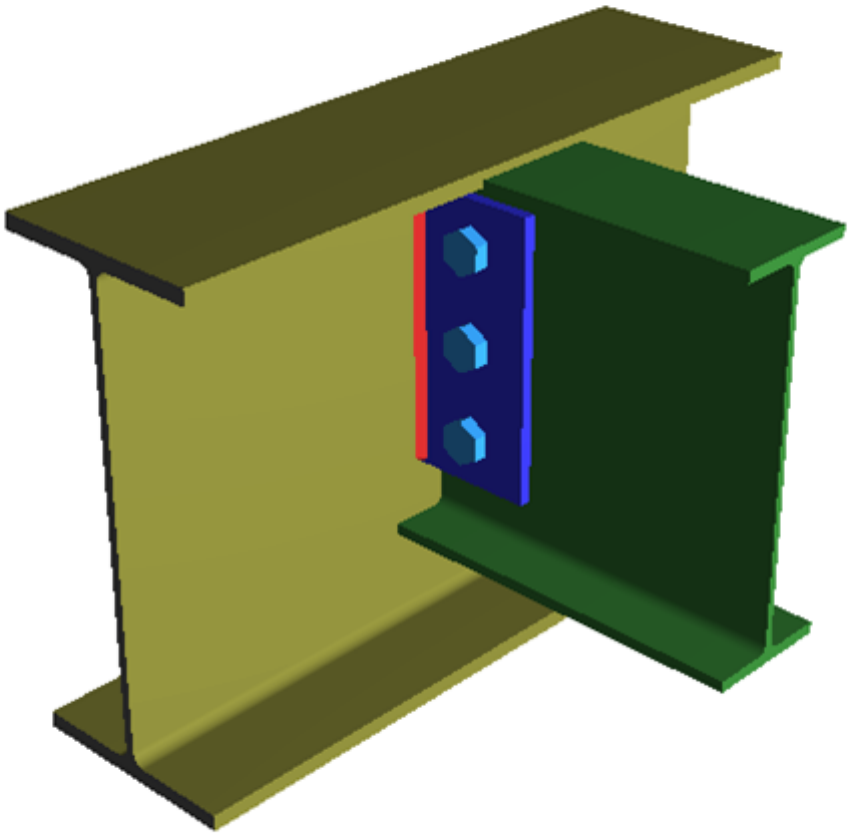
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	10.60 kips	78.33 kips	**0.14**	**PASS**
Plate Shear Yield	10.60 kips	72.90 kips	**0.15**	**PASS**
Beam Shear Rupture	10.60 kips	58.32 kips	**0.18**	**PASS**
Plate Shear Rupture at Beam	10.60 kips	62.40 kips	**0.17**	**PASS**
Beam Block Shear	10.60 kips	84.44 kips	**0.13**	**PASS**
Plate Block Shear	10.60 kips	71.05 kips	**0.15**	**PASS**
Lateral Stability / Stabilizer Plates	10.60 kips	503.22 kips	**0.02**	**PASS**
Plate Flexural Yield			**0.02**	**PASS**
Plate Flexural Rupture			**0.03**	**PASS**
Plate Flexural Buckling	10.60 kips	121.05 kips	**0.09**	**PASS**
Coped Beam Flexural Rupture	10.60 kips	72.43 kips	**0.15**	**PASS**
Coped Beam Local Web Buckling	10.60 kips	66.86 kips	**0.16**	**PASS**
Bolt Bearing on Beam	10.60 kips	53.68 kips	**0.20**	**PASS**
Bolt Bearing on Plate at Beam	10.60 kips	53.68 kips	**0.20**	**PASS**
Bolt Shear at Beam	10.60 kips	48.57 kips	**0.22**	**PASS**
Bolt Group Eccentricity		***0.90***		
Girder Weld Strength	23.56 kips/ft	133.63 kips/ft	**0.18**	**PASS**

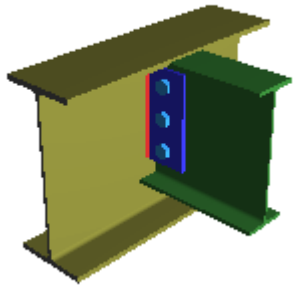
F1_J151 J - F1_G23: Connection Properties Report

Connection	
Connection Title	F1_J151 J - F1_G23
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	-10.603 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W24X68
Material	A992
Beam Section	W12X19
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x9.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	9.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	3
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.090 in
Web Cope Top Length	4.278 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_J152 I - F1_G19: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W16X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W12X19	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x9.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	11.09 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force*

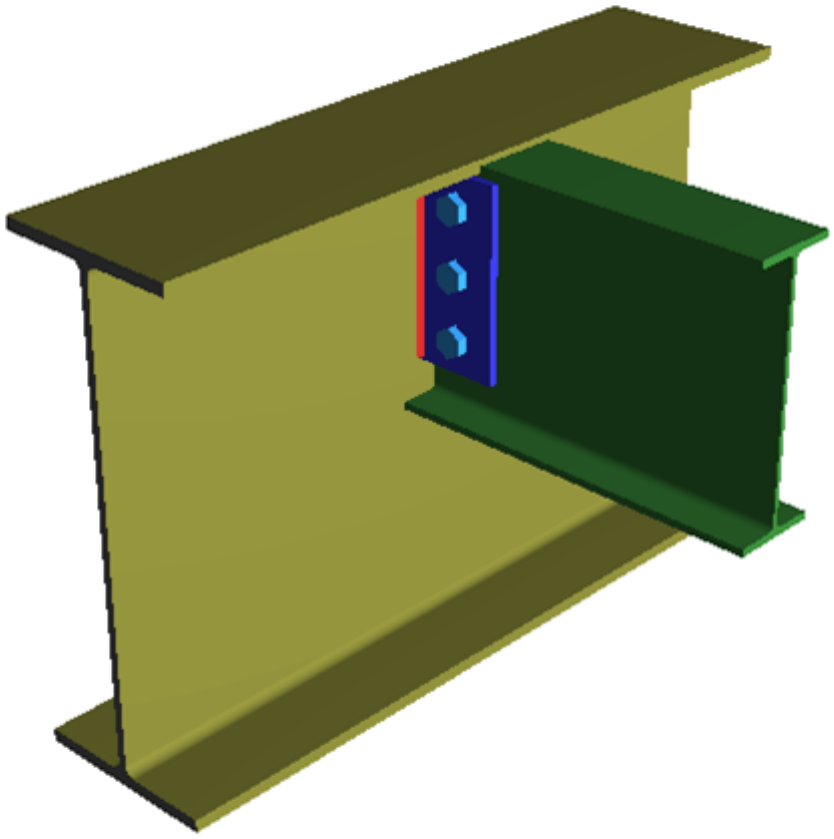
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	11.09 kips	78.89 kips	**0.14**	**PASS**
Plate Shear Yield	11.09 kips	72.90 kips	**0.15**	**PASS**
Beam Shear Rupture	11.09 kips	58.87 kips	**0.19**	**PASS**
Plate Shear Rupture at Beam	11.09 kips	62.40 kips	**0.18**	**PASS**
Beam Block Shear	11.09 kips	52.06 kips	**0.21**	**PASS**
Plate Block Shear	11.09 kips	71.05 kips	**0.16**	**PASS**
Lateral Stability / Stabilizer Plates	11.09 kips	503.22 kips	**0.02**	**PASS**
Plate Flexural Yield			**0.03**	**PASS**
Plate Flexural Rupture			**0.03**	**PASS**
Plate Flexural Buckling	11.09 kips	121.05 kips	**0.09**	**PASS**
Coped Beam Flexural Rupture	11.09 kips	91.15 kips	**0.12**	**PASS**
Coped Beam Local Web Buckling	11.09 kips	84.14 kips	**0.13**	**PASS**
Bolt Bearing on Beam	11.09 kips	53.68 kips	**0.21**	**PASS**
Bolt Bearing on Plate at Beam	11.09 kips	53.68 kips	**0.21**	**PASS**
Bolt Shear at Beam	11.09 kips	48.57 kips	**0.23**	**PASS**
Bolt Group Eccentricity		***0.90***		
Girder Weld Strength	24.65 kips/ft	133.63 kips/ft	**0.18**	**PASS**

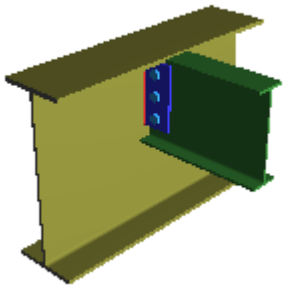
F1_J152 I - F1_G19: Connection Properties Report

Connection	
Connection Title	F1_J152 I - F1_G19
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	11.094 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W16X40
Material	A992
Beam Section	W12X19
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x9.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	9.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	3
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.010 in
Web Cope Top Length	3.348 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_J152 J - F1_G23: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W24X68	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W12X19	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x9.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-11.27 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force*

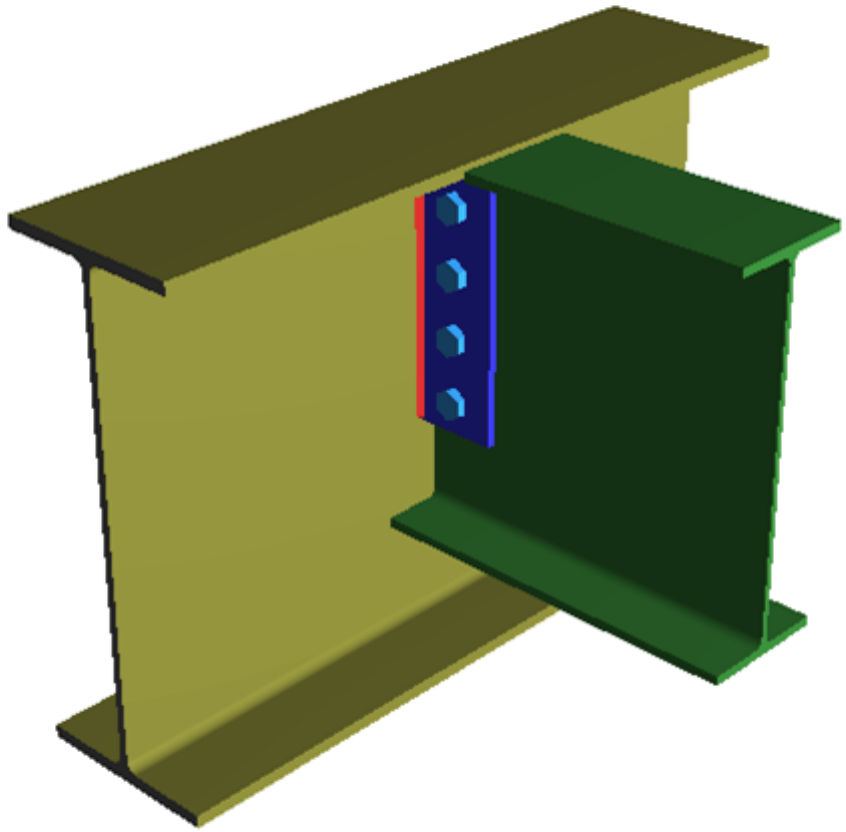
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	11.27 kips	78.33 kips	**0.14**	**PASS**
Plate Shear Yield	11.27 kips	72.90 kips	**0.15**	**PASS**
Beam Shear Rupture	11.27 kips	58.32 kips	**0.19**	**PASS**
Plate Shear Rupture at Beam	11.27 kips	62.40 kips	**0.18**	**PASS**
Beam Block Shear	11.27 kips	84.44 kips	**0.13**	**PASS**
Plate Block Shear	11.27 kips	71.05 kips	**0.16**	**PASS**
Lateral Stability / Stabilizer Plates	11.27 kips	503.22 kips	**0.02**	**PASS**
Plate Flexural Yield			**0.03**	**PASS**
Plate Flexural Rupture			**0.03**	**PASS**
Plate Flexural Buckling	11.27 kips	121.05 kips	**0.09**	**PASS**
Coped Beam Flexural Rupture	11.27 kips	72.43 kips	**0.16**	**PASS**
Coped Beam Local Web Buckling	11.27 kips	66.86 kips	**0.17**	**PASS**
Bolt Bearing on Beam	11.27 kips	53.68 kips	**0.21**	**PASS**
Bolt Bearing on Plate at Beam	11.27 kips	53.68 kips	**0.21**	**PASS**
Bolt Shear at Beam	11.27 kips	48.57 kips	**0.23**	**PASS**
Bolt Group Eccentricity		***0.90***		
Girder Weld Strength	25.05 kips/ft	133.63 kips/ft	**0.19**	**PASS**

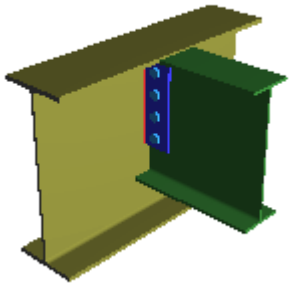
F1_J152 J - F1_G23: Connection Properties Report

Connection	
Connection Title	F1_J152 J - F1_G23
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	-11.271 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W24X68
Material	A992
Beam Section	W12X19
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x9.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	9.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	3
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.090 in
Web Cope Top Length	4.278 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_J153 I - F1_G23: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W24X68	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W18X35	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	16.61 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force*

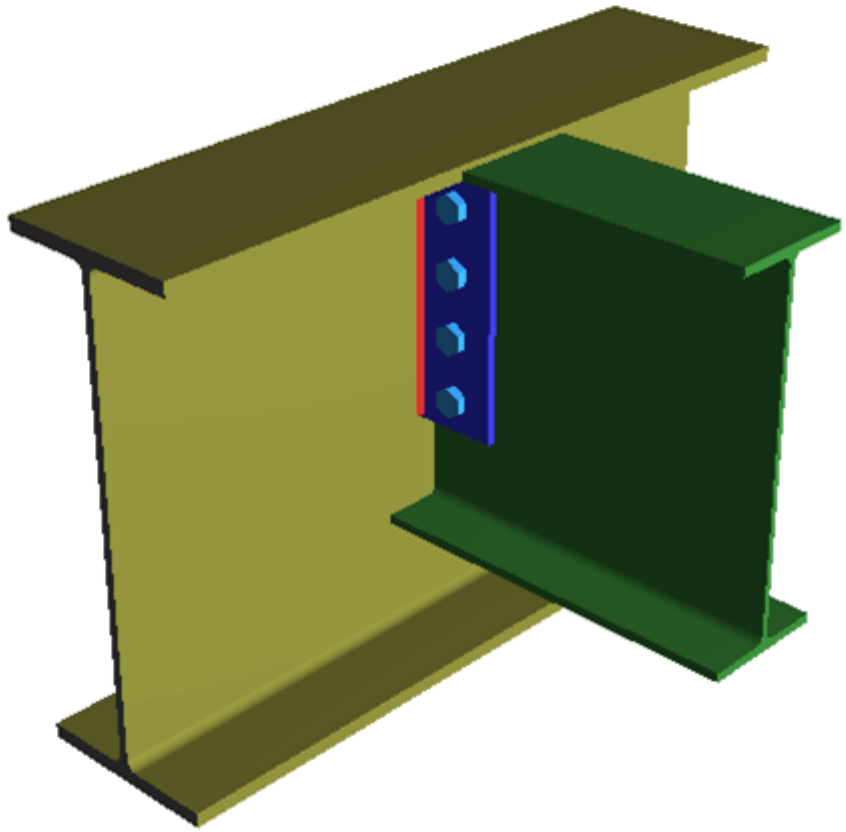
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	16.61 kips	149.49 kips	**0.11**	**PASS**
Plate Shear Yield	16.61 kips	97.20 kips	**0.17**	**PASS**
Beam Shear Rupture	16.61 kips	115.04 kips	**0.14**	**PASS**
Plate Shear Rupture at Beam	16.61 kips	83.19 kips	**0.20**	**PASS**
Beam Block Shear	16.61 kips	84.40 kips	**0.20**	**PASS**
Plate Block Shear	16.61 kips	89.28 kips	**0.19**	**PASS**
Lateral Stability / Stabilizer Plates	16.61 kips	670.96 kips	**0.02**	**PASS**
Plate Flexural Yield			**0.03**	**PASS**
Plate Flexural Rupture			**0.04**	**PASS**
Plate Flexural Buckling	16.61 kips	211.41 kips	**0.08**	**PASS**
Coped Beam Flexural Rupture	16.61 kips	206.23 kips	**0.08**	**PASS**
Coped Beam Local Web Buckling	16.61 kips	190.37 kips	**0.09**	**PASS**
Bolt Bearing on Beam	16.61 kips	71.57 kips	**0.23**	**PASS**
Bolt Bearing on Plate at Beam	16.61 kips	71.57 kips	**0.23**	**PASS**
Bolt Shear at Beam	16.61 kips	67.12 kips	**0.25**	**PASS**
Bolt Group Eccentricity		***0.94***		
Girder Weld Strength	23.50 kips/ft	133.63 kips/ft	**0.18**	**PASS**

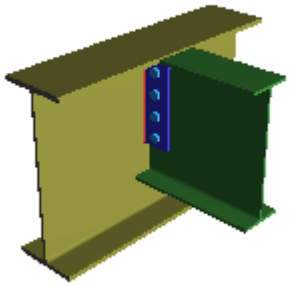
F1_J153 I - F1_G23: Connection Properties Report

Connection	
Connection Title	F1_J153 I - F1_G23
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	16.614 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W24X68
Material	A992
Beam Section	W18X35
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x12.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	12.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	4
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.090 in
Web Cope Top Length	4.278 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_J153 J - F1_G37: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W24X76	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W18X35	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-16.61 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force*

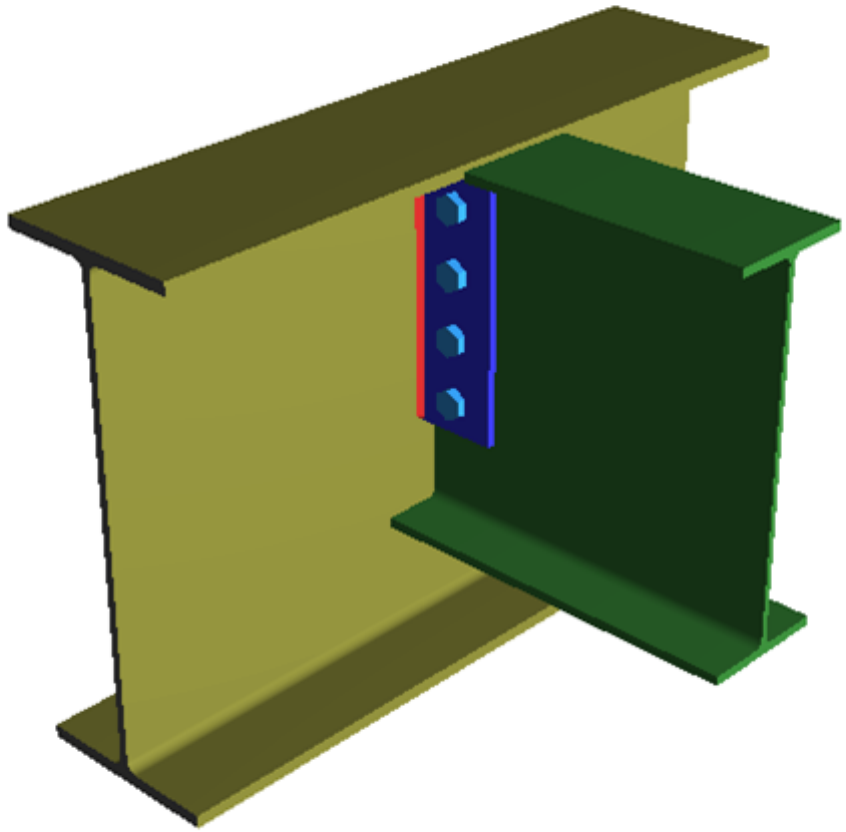
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	16.61 kips	148.68 kips	**0.11**	**PASS**
Plate Shear Yield	16.61 kips	97.20 kips	**0.17**	**PASS**
Beam Shear Rupture	16.61 kips	114.25 kips	**0.15**	**PASS**
Plate Shear Rupture at Beam	16.61 kips	83.19 kips	**0.20**	**PASS**
Beam Block Shear	16.61 kips	143.45 kips	**0.12**	**PASS**
Plate Block Shear	16.61 kips	89.28 kips	**0.19**	**PASS**
Lateral Stability / Stabilizer Plates	16.61 kips	670.96 kips	**0.02**	**PASS**
Plate Flexural Yield			**0.03**	**PASS**
Plate Flexural Rupture			**0.04**	**PASS**
Plate Flexural Buckling	16.61 kips	211.41 kips	**0.08**	**PASS**
Coped Beam Flexural Rupture	16.61 kips	204.27 kips	**0.08**	**PASS**
Coped Beam Local Web Buckling	16.61 kips	188.55 kips	**0.09**	**PASS**
Bolt Bearing on Beam	16.61 kips	71.57 kips	**0.23**	**PASS**
Bolt Bearing on Plate at Beam	16.61 kips	71.57 kips	**0.23**	**PASS**
Bolt Shear at Beam	16.61 kips	67.12 kips	**0.25**	**PASS**
Bolt Group Eccentricity		***0.94***		
Girder Weld Strength	23.50 kips/ft	133.63 kips/ft	**0.18**	**PASS**

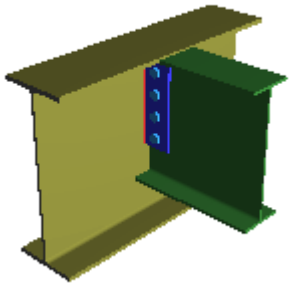
F1_J153 J - F1_G37: Connection Properties Report

Connection	
Connection Title	F1_J153 J - F1_G37
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	-16.614 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W24X76
Material	A992
Beam Section	W18X35
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x12.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	12.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	4
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.180 in
Web Cope Top Length	4.275 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_J154 I - F1_G23: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W24X68	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W18X35	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	14.65 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force*

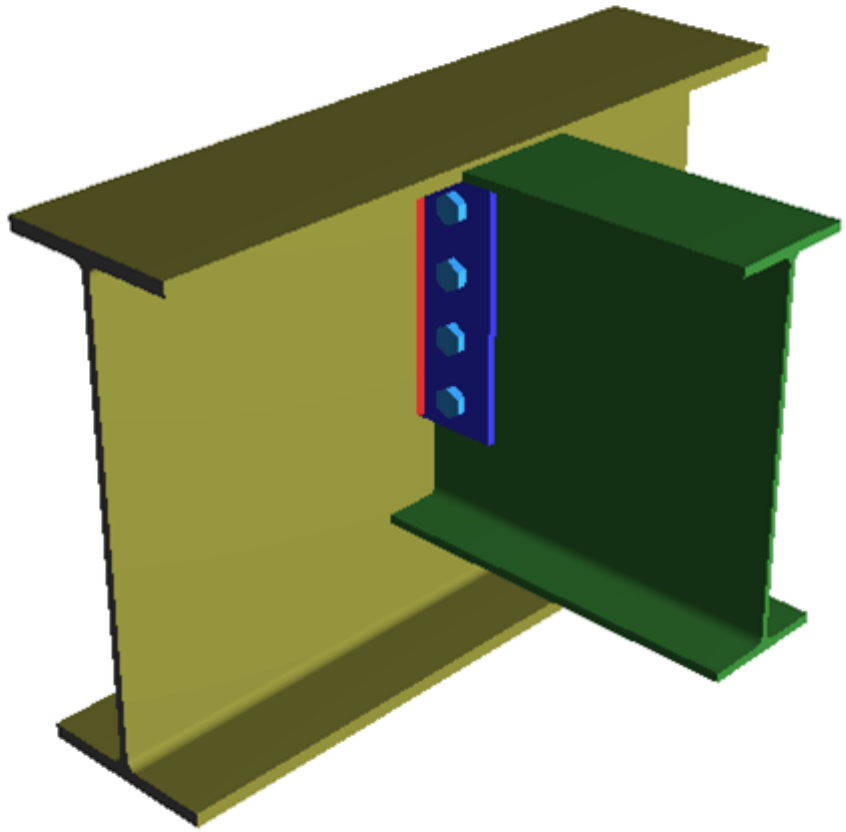
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	14.65 kips	149.49 kips	**0.10**	**PASS**
Plate Shear Yield	14.65 kips	97.20 kips	**0.15**	**PASS**
Beam Shear Rupture	14.65 kips	115.04 kips	**0.13**	**PASS**
Plate Shear Rupture at Beam	14.65 kips	83.19 kips	**0.18**	**PASS**
Beam Block Shear	14.65 kips	84.40 kips	**0.17**	**PASS**
Plate Block Shear	14.65 kips	89.28 kips	**0.16**	**PASS**
Lateral Stability / Stabilizer Plates	14.65 kips	670.96 kips	**0.02**	**PASS**
Plate Flexural Yield			**0.02**	**PASS**
Plate Flexural Rupture			**0.03**	**PASS**
Plate Flexural Buckling	14.65 kips	211.41 kips	**0.07**	**PASS**
Coped Beam Flexural Rupture	14.65 kips	206.23 kips	**0.07**	**PASS**
Coped Beam Local Web Buckling	14.65 kips	190.37 kips	**0.08**	**PASS**
Bolt Bearing on Beam	14.65 kips	71.57 kips	**0.20**	**PASS**
Bolt Bearing on Plate at Beam	14.65 kips	71.57 kips	**0.20**	**PASS**
Bolt Shear at Beam	14.65 kips	67.12 kips	**0.22**	**PASS**
Bolt Group Eccentricity		***0.94***		
Girder Weld Strength	20.72 kips/ft	133.63 kips/ft	**0.16**	**PASS**

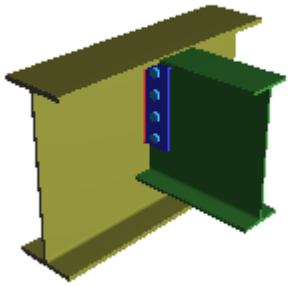
F1_J154 I - F1_G23: Connection Properties Report

Connection	
Connection Title	F1_J154 I - F1_G23
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	14.648 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W24X68
Material	A992
Beam Section	W18X35
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x12.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	12.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	4
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.090 in
Web Cope Top Length	4.278 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_J154 J - F1_G37: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W24X76	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W18X35	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-15.98 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force*

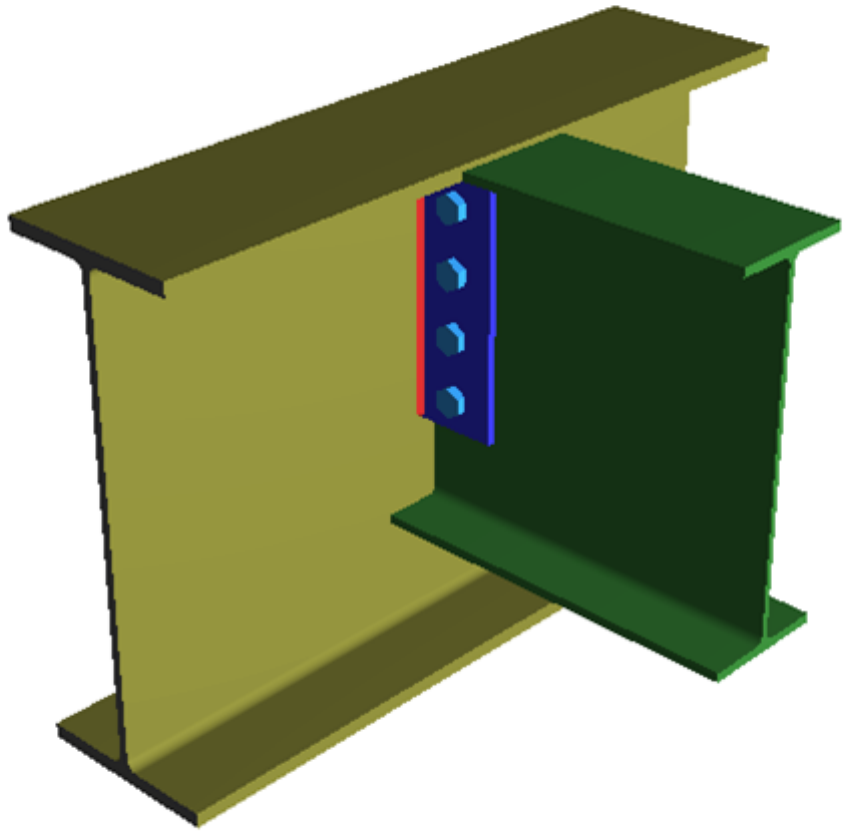
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	15.98 kips	148.68 kips	**0.11**	**PASS**
Plate Shear Yield	15.98 kips	97.20 kips	**0.16**	**PASS**
Beam Shear Rupture	15.98 kips	114.25 kips	**0.14**	**PASS**
Plate Shear Rupture at Beam	15.98 kips	83.19 kips	**0.19**	**PASS**
Beam Block Shear	15.98 kips	143.45 kips	**0.11**	**PASS**
Plate Block Shear	15.98 kips	89.28 kips	**0.18**	**PASS**
Lateral Stability / Stabilizer Plates	15.98 kips	670.96 kips	**0.02**	**PASS**
Plate Flexural Yield			**0.03**	**PASS**
Plate Flexural Rupture			**0.04**	**PASS**
Plate Flexural Buckling	15.98 kips	211.41 kips	**0.08**	**PASS**
Coped Beam Flexural Rupture	15.98 kips	204.27 kips	**0.08**	**PASS**
Coped Beam Local Web Buckling	15.98 kips	188.55 kips	**0.08**	**PASS**
Bolt Bearing on Beam	15.98 kips	71.57 kips	**0.22**	**PASS**
Bolt Bearing on Plate at Beam	15.98 kips	71.57 kips	**0.22**	**PASS**
Bolt Shear at Beam	15.98 kips	67.12 kips	**0.24**	**PASS**
Bolt Group Eccentricity		***0.94***		
Girder Weld Strength	22.59 kips/ft	133.63 kips/ft	**0.17**	**PASS**

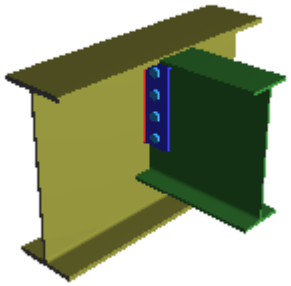
F1_J154 J - F1_G37: Connection Properties Report

Connection	
Connection Title	F1_J154 J - F1_G37
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	-15.975 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W24X76
Material	A992
Beam Section	W18X35
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x12.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	12.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	4
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.180 in
Web Cope Top Length	4.275 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_J155 I - F1_G37: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W24X76	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W18X35	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	16.86 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force*

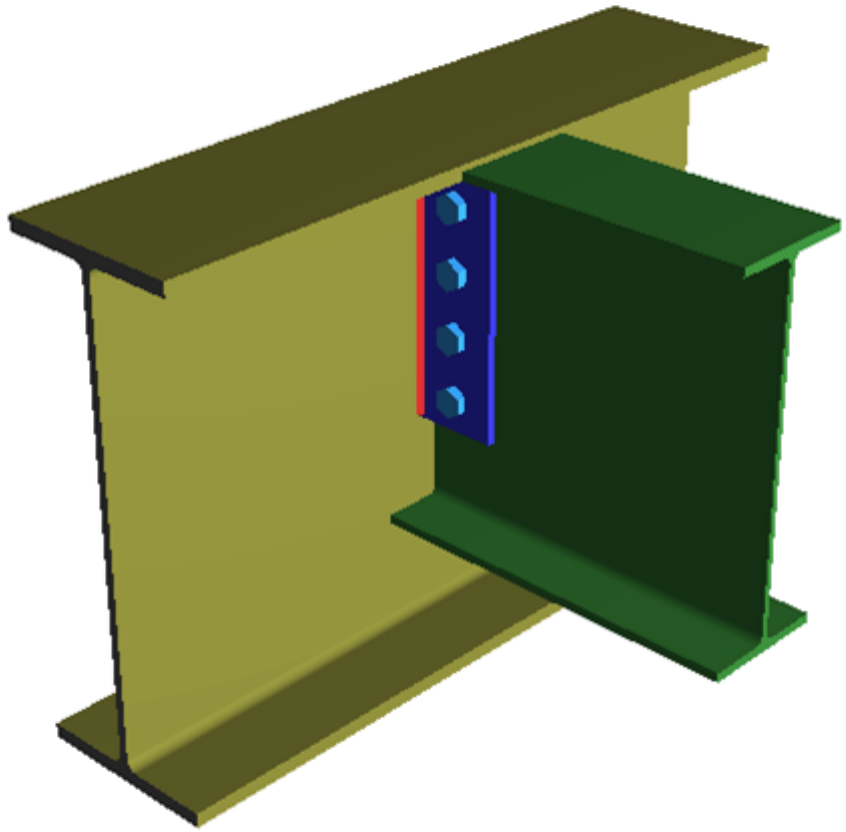
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	16.86 kips	148.68 kips	**0.11**	**PASS**
Plate Shear Yield	16.86 kips	97.20 kips	**0.17**	**PASS**
Beam Shear Rupture	16.86 kips	114.25 kips	**0.15**	**PASS**
Plate Shear Rupture at Beam	16.86 kips	83.19 kips	**0.20**	**PASS**
Beam Block Shear	16.86 kips	83.61 kips	**0.20**	**PASS**
Plate Block Shear	16.86 kips	89.28 kips	**0.19**	**PASS**
Lateral Stability / Stabilizer Plates	16.86 kips	670.96 kips	**0.03**	**PASS**
Plate Flexural Yield			**0.03**	**PASS**
Plate Flexural Rupture			**0.04**	**PASS**
Plate Flexural Buckling	16.86 kips	211.41 kips	**0.08**	**PASS**
Coped Beam Flexural Rupture	16.86 kips	204.27 kips	**0.08**	**PASS**
Coped Beam Local Web Buckling	16.86 kips	188.55 kips	**0.09**	**PASS**
Bolt Bearing on Beam	16.86 kips	71.57 kips	**0.24**	**PASS**
Bolt Bearing on Plate at Beam	16.86 kips	71.57 kips	**0.24**	**PASS**
Bolt Shear at Beam	16.86 kips	67.12 kips	**0.25**	**PASS**
Bolt Group Eccentricity		***0.94***		
Girder Weld Strength	23.84 kips/ft	133.63 kips/ft	**0.18**	**PASS**

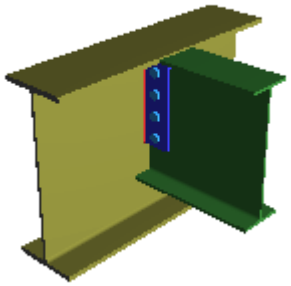
F1_J155 I - F1_G37: Connection Properties Report

Connection	
Connection Title	F1_J155 I - F1_G37
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	16.858 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W24X76
Material	A992
Beam Section	W18X35
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x12.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	12.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	4
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.180 in
Web Cope Top Length	4.275 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_J155 J - F1_G38: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W24X76	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W18X35	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-16.86 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force*

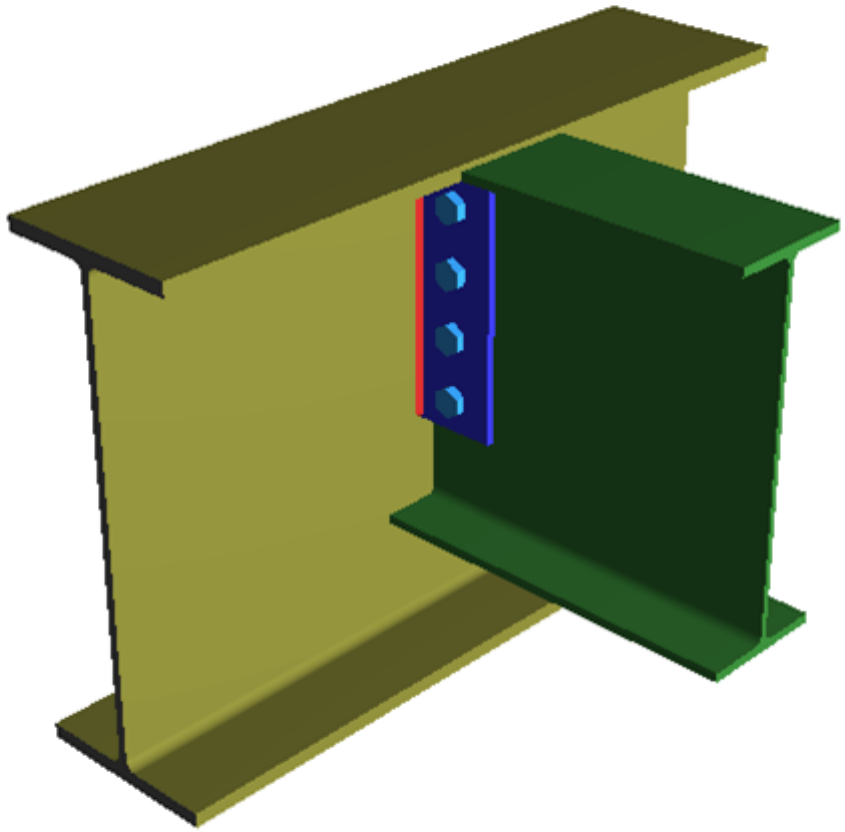
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	16.86 kips	148.68 kips	**0.11**	**PASS**
Plate Shear Yield	16.86 kips	97.20 kips	**0.17**	**PASS**
Beam Shear Rupture	16.86 kips	114.25 kips	**0.15**	**PASS**
Plate Shear Rupture at Beam	16.86 kips	83.19 kips	**0.20**	**PASS**
Beam Block Shear	16.86 kips	143.45 kips	**0.12**	**PASS**
Plate Block Shear	16.86 kips	89.28 kips	**0.19**	**PASS**
Lateral Stability / Stabilizer Plates	16.86 kips	670.96 kips	**0.03**	**PASS**
Plate Flexural Yield			**0.03**	**PASS**
Plate Flexural Rupture			**0.04**	**PASS**
Plate Flexural Buckling	16.86 kips	211.41 kips	**0.08**	**PASS**
Coped Beam Flexural Rupture	16.86 kips	204.27 kips	**0.08**	**PASS**
Coped Beam Local Web Buckling	16.86 kips	188.55 kips	**0.09**	**PASS**
Bolt Bearing on Beam	16.86 kips	71.57 kips	**0.24**	**PASS**
Bolt Bearing on Plate at Beam	16.86 kips	71.57 kips	**0.24**	**PASS**
Bolt Shear at Beam	16.86 kips	67.12 kips	**0.25**	**PASS**
Bolt Group Eccentricity		***0.94***		
Girder Weld Strength	23.84 kips/ft	133.63 kips/ft	**0.18**	**PASS**

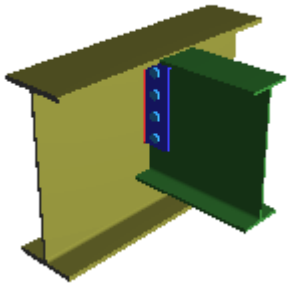
F1_J155 J - F1_G38: Connection Properties Report

Connection	
Connection Title	F1_J155 J - F1_G38
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	-16.858 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W24X76
Material	A992
Beam Section	W18X35
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x12.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	12.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	4
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.180 in
Web Cope Top Length	4.275 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_J156 I - F1_G37: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W24X76	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W18X35	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	16.86 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force*

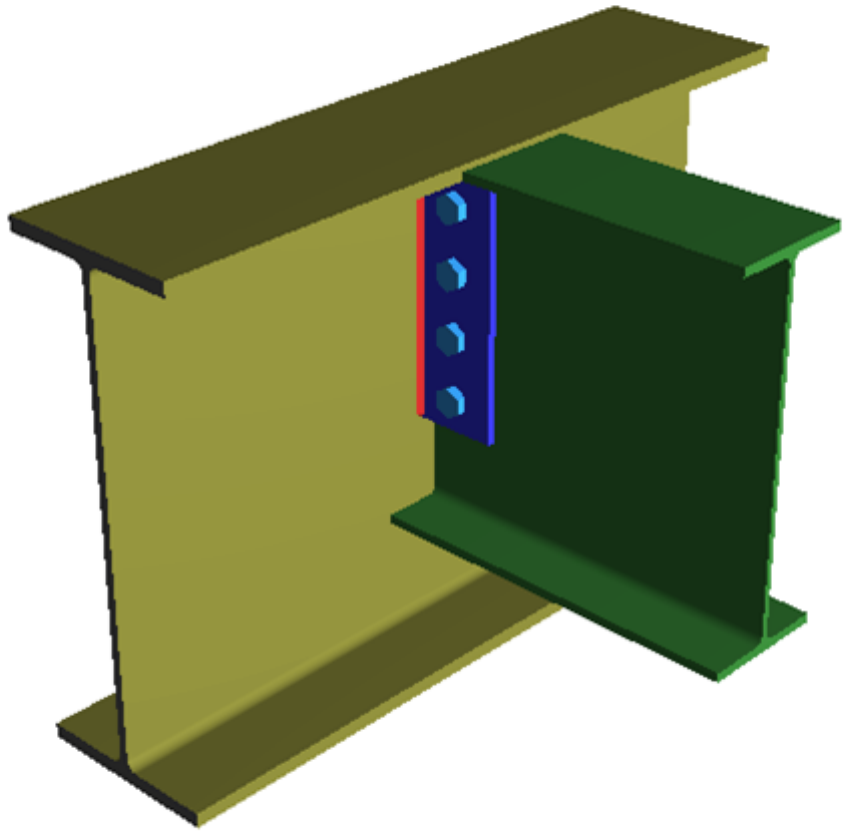
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	16.86 kips	148.68 kips	**0.11**	**PASS**
Plate Shear Yield	16.86 kips	97.20 kips	**0.17**	**PASS**
Beam Shear Rupture	16.86 kips	114.25 kips	**0.15**	**PASS**
Plate Shear Rupture at Beam	16.86 kips	83.19 kips	**0.20**	**PASS**
Beam Block Shear	16.86 kips	83.61 kips	**0.20**	**PASS**
Plate Block Shear	16.86 kips	89.28 kips	**0.19**	**PASS**
Lateral Stability / Stabilizer Plates	16.86 kips	670.96 kips	**0.03**	**PASS**
Plate Flexural Yield			**0.03**	**PASS**
Plate Flexural Rupture			**0.04**	**PASS**
Plate Flexural Buckling	16.86 kips	211.41 kips	**0.08**	**PASS**
Coped Beam Flexural Rupture	16.86 kips	204.27 kips	**0.08**	**PASS**
Coped Beam Local Web Buckling	16.86 kips	188.55 kips	**0.09**	**PASS**
Bolt Bearing on Beam	16.86 kips	71.57 kips	**0.24**	**PASS**
Bolt Bearing on Plate at Beam	16.86 kips	71.57 kips	**0.24**	**PASS**
Bolt Shear at Beam	16.86 kips	67.12 kips	**0.25**	**PASS**
Bolt Group Eccentricity		***0.94***		
Girder Weld Strength	23.84 kips/ft	133.63 kips/ft	**0.18**	**PASS**

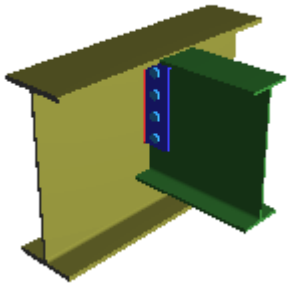
F1_J156 I - F1_G37: Connection Properties Report

Connection	
Connection Title	F1_J156 I - F1_G37
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	16.858 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W24X76
Material	A992
Beam Section	W18X35
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x12.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	12.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	4
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.180 in
Web Cope Top Length	4.275 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_J156 J - F1_G38: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W24X76	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W18X35	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-16.86 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force*

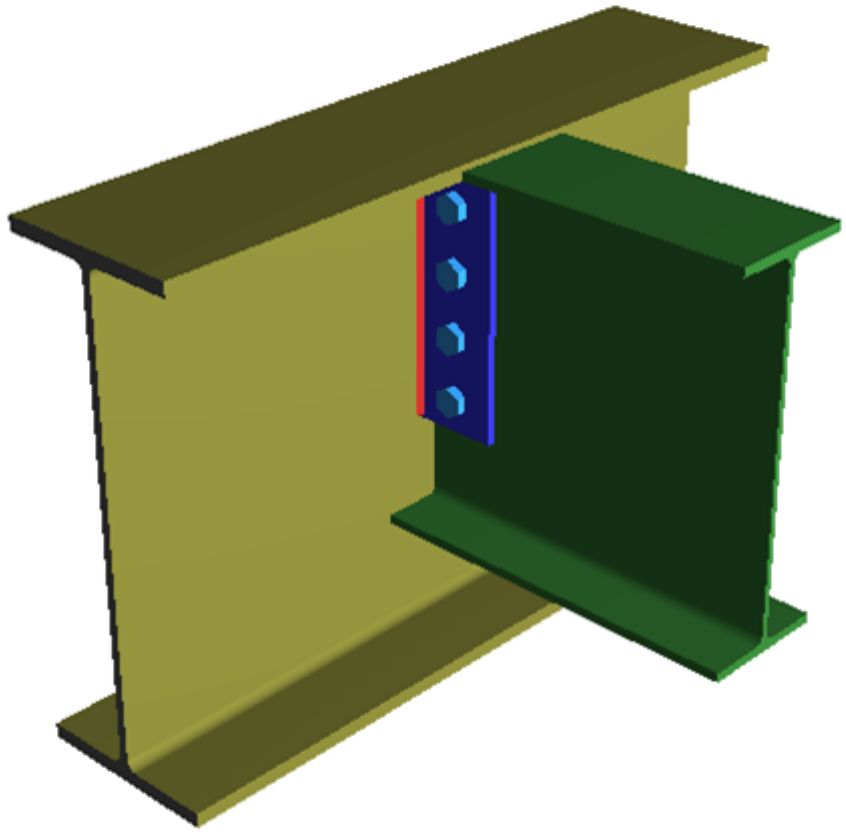
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	16.86 kips	148.68 kips	**0.11**	**PASS**
Plate Shear Yield	16.86 kips	97.20 kips	**0.17**	**PASS**
Beam Shear Rupture	16.86 kips	114.25 kips	**0.15**	**PASS**
Plate Shear Rupture at Beam	16.86 kips	83.19 kips	**0.20**	**PASS**
Beam Block Shear	16.86 kips	143.45 kips	**0.12**	**PASS**
Plate Block Shear	16.86 kips	89.28 kips	**0.19**	**PASS**
Lateral Stability / Stabilizer Plates	16.86 kips	670.96 kips	**0.03**	**PASS**
Plate Flexural Yield			**0.03**	**PASS**
Plate Flexural Rupture			**0.04**	**PASS**
Plate Flexural Buckling	16.86 kips	211.41 kips	**0.08**	**PASS**
Coped Beam Flexural Rupture	16.86 kips	204.27 kips	**0.08**	**PASS**
Coped Beam Local Web Buckling	16.86 kips	188.55 kips	**0.09**	**PASS**
Bolt Bearing on Beam	16.86 kips	71.57 kips	**0.24**	**PASS**
Bolt Bearing on Plate at Beam	16.86 kips	71.57 kips	**0.24**	**PASS**
Bolt Shear at Beam	16.86 kips	67.12 kips	**0.25**	**PASS**
Bolt Group Eccentricity		***0.94***		
Girder Weld Strength	23.84 kips/ft	133.63 kips/ft	**0.18**	**PASS**

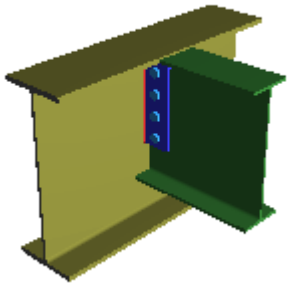
F1_J156 J - F1_G38: Connection Properties Report

Connection	
Connection Title	F1_J156 J - F1_G38
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	-16.858 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W24X76
Material	A992
Beam Section	W18X35
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x12.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	12.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	4
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.180 in
Web Cope Top Length	4.275 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_J157 I - F1_G38: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W24X76	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W18X35	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	16.61 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force*

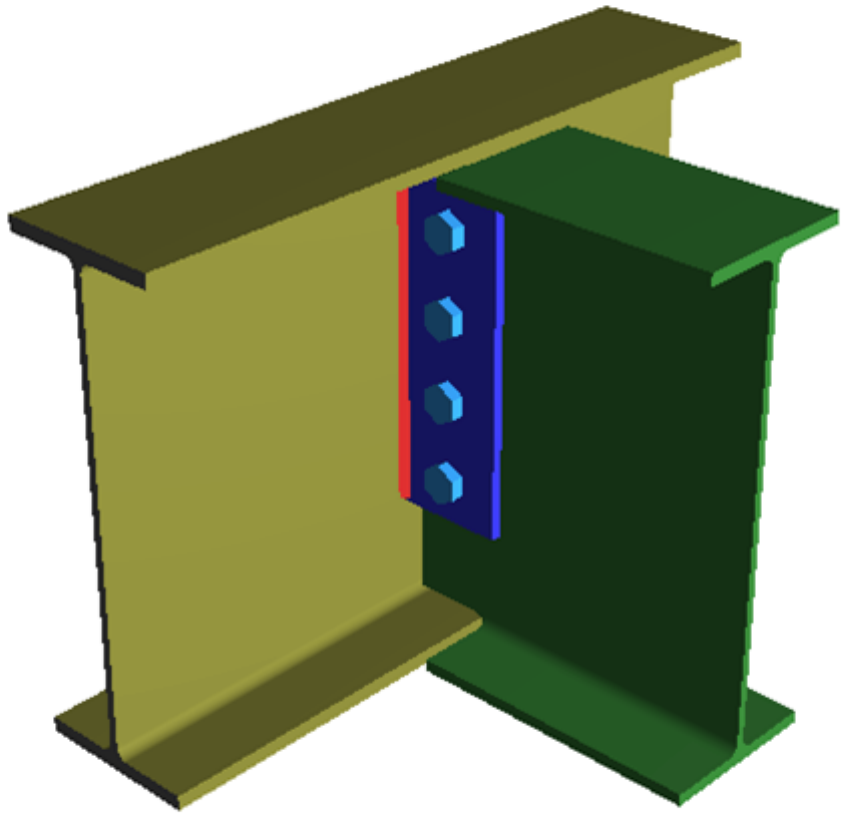
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	16.61 kips	148.68 kips	**0.11**	**PASS**
Plate Shear Yield	16.61 kips	97.20 kips	**0.17**	**PASS**
Beam Shear Rupture	16.61 kips	114.25 kips	**0.15**	**PASS**
Plate Shear Rupture at Beam	16.61 kips	83.19 kips	**0.20**	**PASS**
Beam Block Shear	16.61 kips	83.61 kips	**0.20**	**PASS**
Plate Block Shear	16.61 kips	89.28 kips	**0.19**	**PASS**
Lateral Stability / Stabilizer Plates	16.61 kips	670.96 kips	**0.02**	**PASS**
Plate Flexural Yield			**0.03**	**PASS**
Plate Flexural Rupture			**0.04**	**PASS**
Plate Flexural Buckling	16.61 kips	211.41 kips	**0.08**	**PASS**
Coped Beam Flexural Rupture	16.61 kips	204.27 kips	**0.08**	**PASS**
Coped Beam Local Web Buckling	16.61 kips	188.55 kips	**0.09**	**PASS**
Bolt Bearing on Beam	16.61 kips	71.57 kips	**0.23**	**PASS**
Bolt Bearing on Plate at Beam	16.61 kips	71.57 kips	**0.23**	**PASS**
Bolt Shear at Beam	16.61 kips	67.12 kips	**0.25**	**PASS**
Bolt Group Eccentricity		***0.94***		
Girder Weld Strength	23.50 kips/ft	133.63 kips/ft	**0.18**	**PASS**

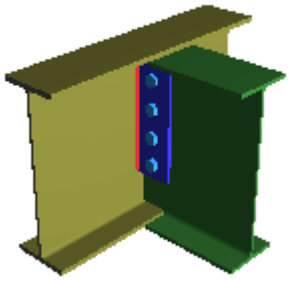
F1_J157 I - F1_G38: Connection Properties Report

Connection	
Connection Title	F1_J157 I - F1_G38
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	16.614 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W24X76
Material	A992
Beam Section	W18X35
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x12.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	12.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	4
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.180 in
Web Cope Top Length	4.275 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_J157 J - F1_G33: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W18X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W18X35	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-16.61 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force*

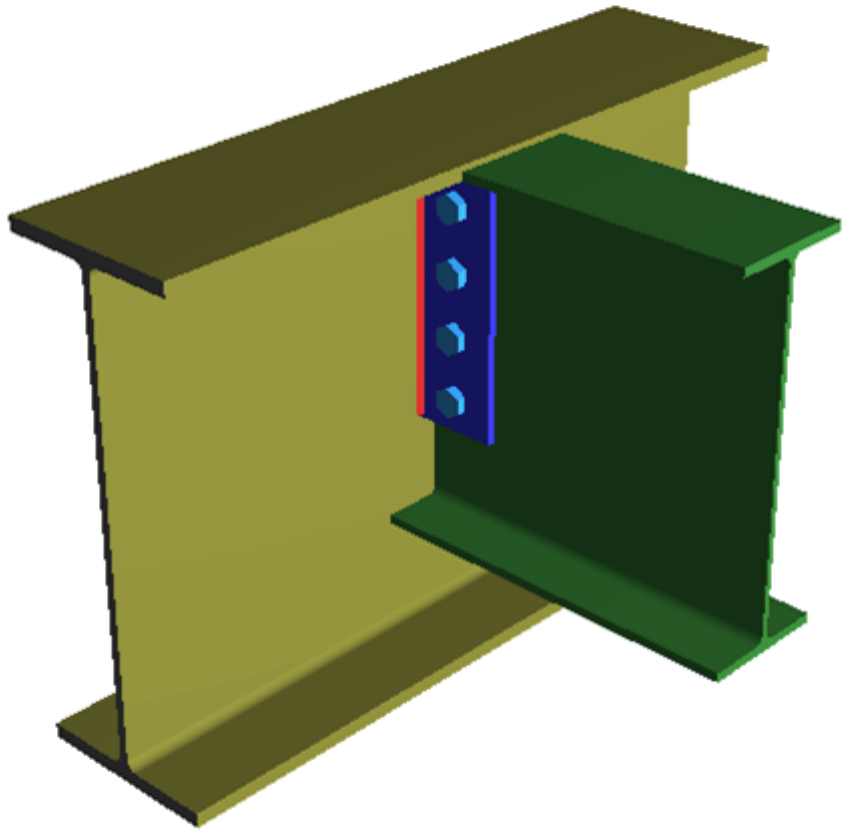
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	16.61 kips	142.77 kips	**0.12**	**PASS**
Plate Shear Yield	16.61 kips	97.20 kips	**0.17**	**PASS**
Beam Shear Rupture	16.61 kips	108.49 kips	**0.15**	**PASS**
Plate Shear Rupture at Beam	16.61 kips	83.19 kips	**0.20**	**PASS**
Beam Block Shear	16.61 kips	109.18 kips	**0.15**	**PASS**
Plate Block Shear	16.61 kips	89.28 kips	**0.19**	**PASS**
Lateral Stability / Stabilizer Plates	16.61 kips	670.96 kips	**0.02**	**PASS**
Plate Flexural Yield			**0.03**	**PASS**
Plate Flexural Rupture			**0.04**	**PASS**
Plate Flexural Buckling	16.61 kips	211.41 kips	**0.08**	**PASS**
Coped Beam Flexural Rupture	16.61 kips	161.09 kips	**0.10**	**PASS**
Coped Beam Lateral Torsional Buckling	16.61 kips	148.70 kips	**0.11**	**PASS**
Bolt Bearing on Beam	16.61 kips	71.57 kips	**0.23**	**PASS**
Bolt Bearing on Plate at Beam	16.61 kips	71.57 kips	**0.23**	**PASS**
Bolt Shear at Beam	16.61 kips	67.12 kips	**0.25**	**PASS**
Bolt Group Eccentricity		***0.94***		
Girder Weld Strength	23.50 kips/ft	133.63 kips/ft	**0.18**	**PASS**

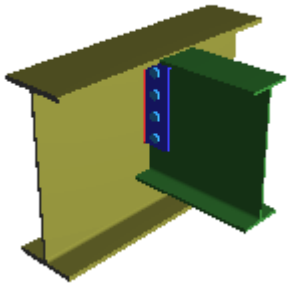
F1_J157 J - F1_G33: Connection Properties Report

Connection	
Connection Title	F1_J157 J - F1_G33
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	-16.614 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W18X40
Material	A992
Beam Section	W18X35
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x12.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	12.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	4
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.010 in
Web Cope Top Length	3.308 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.827 in
Web Cope Bottom Length	2.853 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_J158 I - F1_G38: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W24X76	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W18X35	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	16.61 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force*

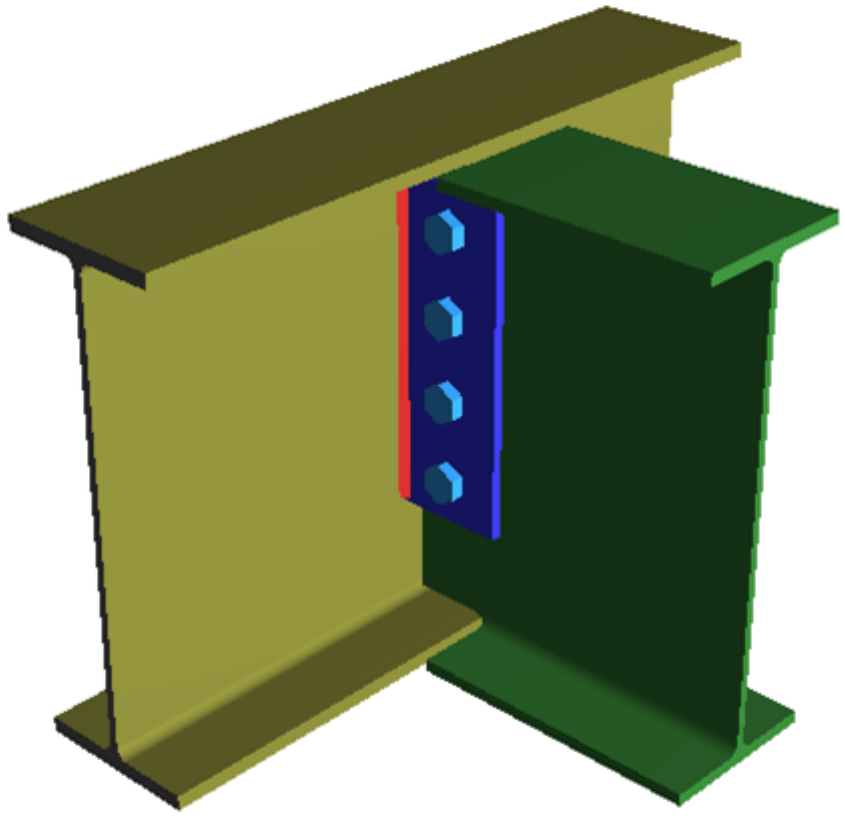
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	16.61 kips	148.68 kips	**0.11**	**PASS**
Plate Shear Yield	16.61 kips	97.20 kips	**0.17**	**PASS**
Beam Shear Rupture	16.61 kips	114.25 kips	**0.15**	**PASS**
Plate Shear Rupture at Beam	16.61 kips	83.19 kips	**0.20**	**PASS**
Beam Block Shear	16.61 kips	83.61 kips	**0.20**	**PASS**
Plate Block Shear	16.61 kips	89.28 kips	**0.19**	**PASS**
Lateral Stability / Stabilizer Plates	16.61 kips	670.96 kips	**0.02**	**PASS**
Plate Flexural Yield			**0.03**	**PASS**
Plate Flexural Rupture			**0.04**	**PASS**
Plate Flexural Buckling	16.61 kips	211.41 kips	**0.08**	**PASS**
Coped Beam Flexural Rupture	16.61 kips	204.27 kips	**0.08**	**PASS**
Coped Beam Local Web Buckling	16.61 kips	188.55 kips	**0.09**	**PASS**
Bolt Bearing on Beam	16.61 kips	71.57 kips	**0.23**	**PASS**
Bolt Bearing on Plate at Beam	16.61 kips	71.57 kips	**0.23**	**PASS**
Bolt Shear at Beam	16.61 kips	67.12 kips	**0.25**	**PASS**
Bolt Group Eccentricity		***0.94***		
Girder Weld Strength	23.50 kips/ft	133.63 kips/ft	**0.18**	**PASS**

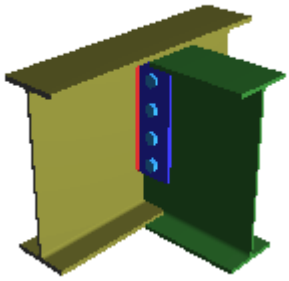
F1_J158 I - F1_G38: Connection Properties Report

Connection	
Connection Title	F1_J158 I - F1_G38
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	16.614 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W24X76
Material	A992
Beam Section	W18X35
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x12.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	12.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	4
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.180 in
Web Cope Top Length	4.275 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



F1_J158 J - F1_G33: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W18X40	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W18X35	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-16.61 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force*

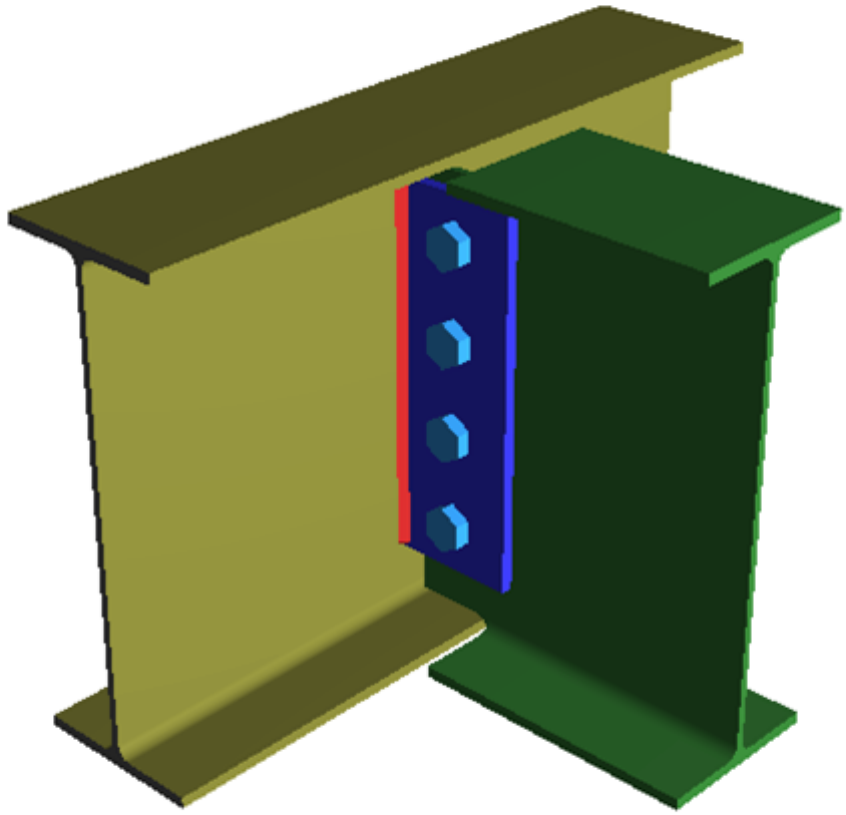
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	16.61 kips	142.77 kips	**0.12**	**PASS**
Plate Shear Yield	16.61 kips	97.20 kips	**0.17**	**PASS**
Beam Shear Rupture	16.61 kips	108.49 kips	**0.15**	**PASS**
Plate Shear Rupture at Beam	16.61 kips	83.19 kips	**0.20**	**PASS**
Beam Block Shear	16.61 kips	109.18 kips	**0.15**	**PASS**
Plate Block Shear	16.61 kips	89.28 kips	**0.19**	**PASS**
Lateral Stability / Stabilizer Plates	16.61 kips	670.96 kips	**0.02**	**PASS**
Plate Flexural Yield			**0.03**	**PASS**
Plate Flexural Rupture			**0.04**	**PASS**
Plate Flexural Buckling	16.61 kips	211.41 kips	**0.08**	**PASS**
Coped Beam Flexural Rupture	16.61 kips	161.09 kips	**0.10**	**PASS**
Coped Beam Lateral Torsional Buckling	16.61 kips	148.70 kips	**0.11**	**PASS**
Bolt Bearing on Beam	16.61 kips	71.57 kips	**0.23**	**PASS**
Bolt Bearing on Plate at Beam	16.61 kips	71.57 kips	**0.23**	**PASS**
Bolt Shear at Beam	16.61 kips	67.12 kips	**0.25**	**PASS**
Bolt Group Eccentricity		***0.94***		
Girder Weld Strength	23.50 kips/ft	133.63 kips/ft	**0.18**	**PASS**

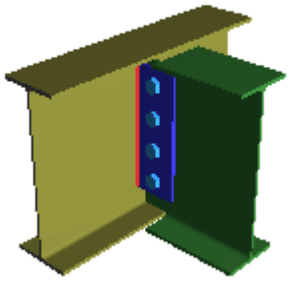
F1_J158 J - F1_G33: Connection Properties Report

Connection	
Connection Title	F1_J158 J - F1_G33
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	-16.614 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W18X40
Material	A992
Beam Section	W18X35
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x12.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	12.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	4
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.010 in
Web Cope Top Length	3.308 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.827 in
Web Cope Bottom Length	2.853 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



M242 I - F1_G34: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W16X26	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W16X26	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	15.38 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force*

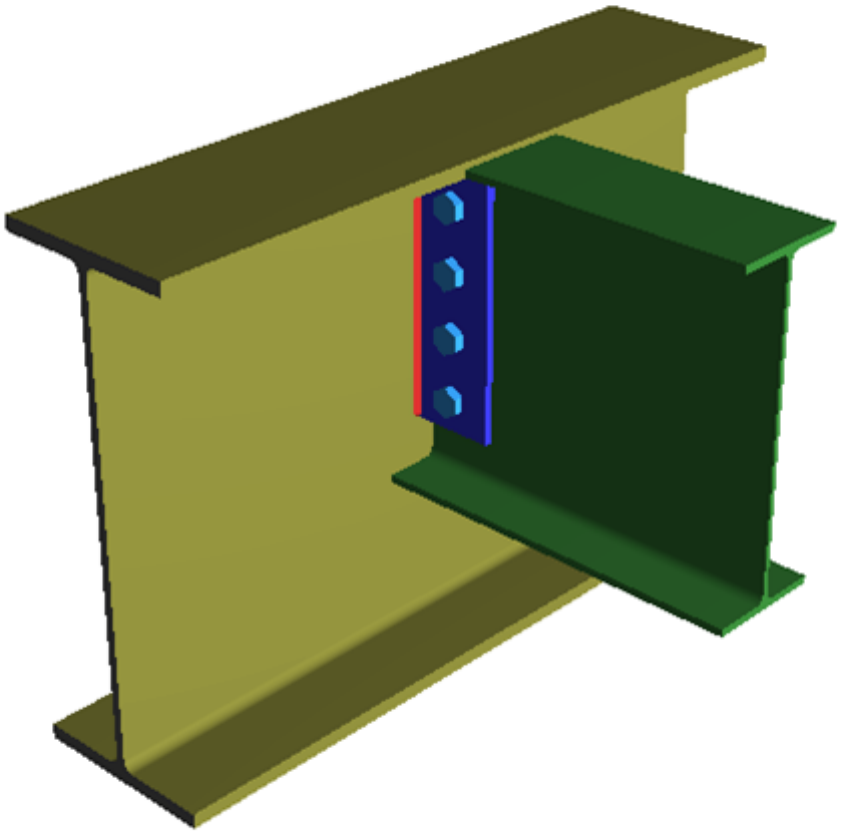
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	15.38 kips	94.12 kips	**0.16**	**PASS**
Plate Shear Yield	15.38 kips	97.20 kips	**0.16**	**PASS**
Beam Shear Rupture	15.38 kips	76.36 kips	**0.20**	**PASS**
Plate Shear Rupture at Beam	15.38 kips	83.19 kips	**0.18**	**PASS**
Beam Block Shear	15.38 kips	70.92 kips	**0.22**	**PASS**
Plate Block Shear	15.38 kips	89.28 kips	**0.17**	**PASS**
Lateral Stability / Stabilizer Plates	15.38 kips	670.96 kips	**0.02**	**PASS**
Plate Flexural Yield			**0.03**	**PASS**
Plate Flexural Rupture			**0.04**	**PASS**
Plate Flexural Buckling	15.38 kips	211.41 kips	**0.07**	**PASS**
Coped Beam Flexural Rupture	15.38 kips	103.71 kips	**0.15**	**PASS**
Coped Beam Lateral Torsional Buckling	15.38 kips	95.74 kips	**0.16**	**PASS**
Bolt Bearing on Beam	15.38 kips	71.57 kips	**0.21**	**PASS**
Bolt Bearing on Plate at Beam	15.38 kips	71.57 kips	**0.21**	**PASS**
Bolt Shear at Beam	15.38 kips	67.12 kips	**0.23**	**PASS**
Bolt Group Eccentricity		***0.94***		
Girder Weld Strength	21.75 kips/ft	133.63 kips/ft	**0.16**	**PASS**

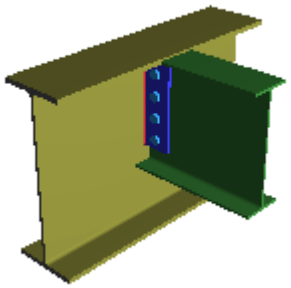
M242 I - F1_G34: Connection Properties Report

Connection	
Connection Title	M242 I - F1_G34
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	15.382 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W16X26
Material	A992
Beam Section	W16X26
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x12.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	12.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	4
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.010 in
Web Cope Top Length	3.308 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.747 in
Web Cope Bottom Length	2.625 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



M242 J - F1_G38: LRFD Results Report

Girder/Beam Shear Tab Shear Connection



Material Properties:				
Girder	W24X76	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Beam	W16X26	A992	F_y = 50.00 ksi	F_u = 65.00 ksi
Plate	P0.38x4.00x12.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Shear Load	-15.38 kips	*User Input Shear Load*
Axial Load	0.00 kips	*User Input Axial Force*

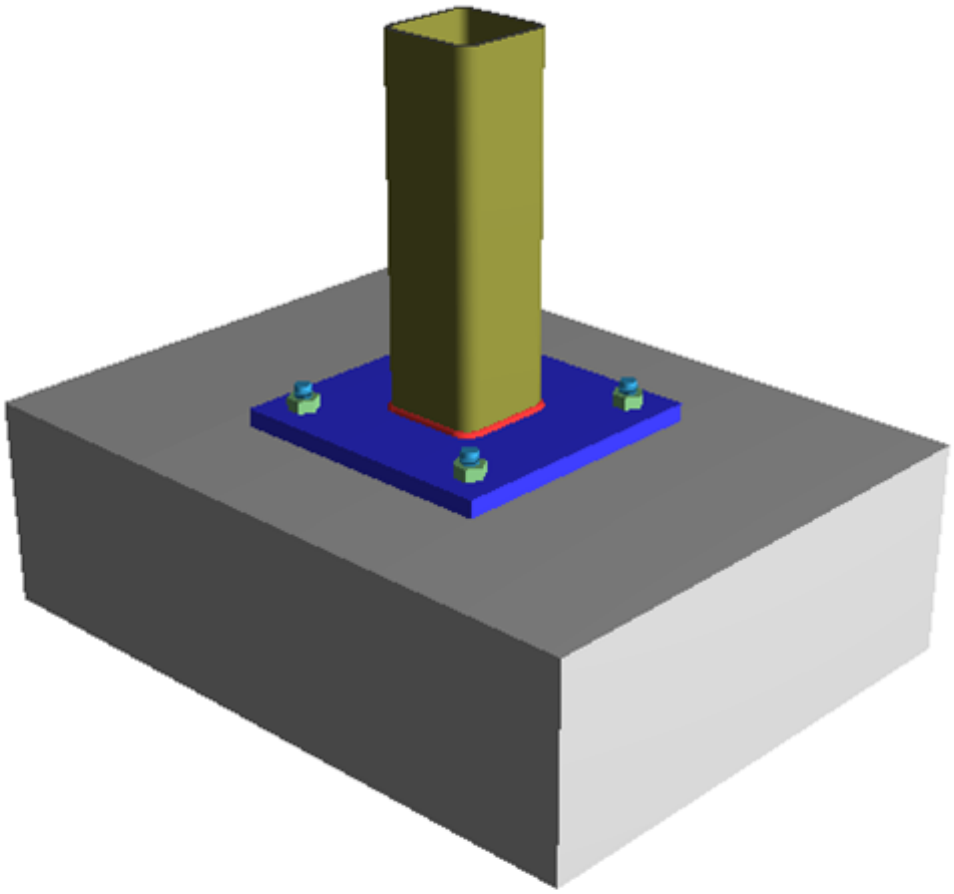
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions at Beam				**PASS**
Girder Weld Limitations				**PASS**
Rotational Ductility, Erection Stability				**PASS**
Beam Shear Yield	15.38 kips	98.01 kips	**0.16**	**PASS**
Plate Shear Yield	15.38 kips	97.20 kips	**0.16**	**PASS**
Beam Shear Rupture	15.38 kips	80.58 kips	**0.19**	**PASS**
Plate Shear Rupture at Beam	15.38 kips	83.19 kips	**0.18**	**PASS**
Beam Block Shear	15.38 kips	107.67 kips	**0.14**	**PASS**
Plate Block Shear	15.38 kips	89.28 kips	**0.17**	**PASS**
Lateral Stability / Stabilizer Plates	15.38 kips	670.96 kips	**0.02**	**PASS**
Plate Flexural Yield			**0.03**	**PASS**
Plate Flexural Rupture			**0.04**	**PASS**
Plate Flexural Buckling	15.38 kips	211.41 kips	**0.07**	**PASS**
Coped Beam Flexural Rupture	15.38 kips	132.13 kips	**0.12**	**PASS**
Coped Beam Local Web Buckling	15.38 kips	121.97 kips	**0.13**	**PASS**
Bolt Bearing on Beam	15.38 kips	71.57 kips	**0.21**	**PASS**
Bolt Bearing on Plate at Beam	15.38 kips	71.57 kips	**0.21**	**PASS**
Bolt Shear at Beam	15.38 kips	67.12 kips	**0.23**	**PASS**
Bolt Group Eccentricity		***0.94***		
Girder Weld Strength	21.75 kips/ft	133.63 kips/ft	**0.16**	**PASS**

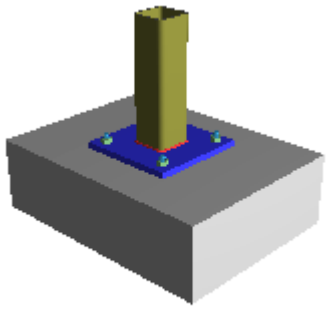
M242 J - F1_G38: Connection Properties Report

Connection	
Connection Title	M242 J - F1_G38
Connection Type	Girder/Beam Shear Tab Shear Connection
Connection Category	
Beam Connection	Bolted
Beam Skew from Horizontal	None
Beam Skew Angle	0.000
Loading (LRFD)	
Custom?	No
Shear Load	-15.382 kips
Axial Load	0.000 kips
Eccentric Moment Calculation	Include All Eccentricities
Components	
Girder Section	W24X76
Material	A992
Beam Section	W16X26
Material	A992
Hole Type	STD
Plate Section	P0.38x4.00x12.00
Material	A36
Thickness	0.375 in
Width	4.000 in
Depth	12.000 in
Hole Type	STD
Girder Weld	E70
Type	Double Fillet
Fillet Size	4.000 Sixteenths
Girder Connection	No Weld To Flanges
Beam Bolts	3/4" Group A-N
Beam Bolts	Group A-N
Diameter, in.	3/4"
Rows	1
Bolts per Row	4
Longitudinal Spacing	3.000 in
Transverse Spacing	3.000 in
Slip Critical	No
Assembly	
Girder/Beam Clearance	0.500 in
Beam Vert Offset	0.000 in
Cope Dimensions	
Web Cope Top Depth	1.180 in
Web Cope Top Length	4.275 in
Web Cope Top Radius	0.500 in
Web Cope Bottom Depth	0.000 in
Web Cope Bottom Length	0.000 in
Web Cope Bottom Radius	0.500 in
Plate Vertical Position	1.500 in
Beam Bolts Edge Distance Dimensions	
Beam Bolts/Beam Edge Dist	1.500 in
Beam Bolts Horz Edge Dist	2.000 in
Top Beam Bolts Vert Edge Dist	1.500 in
Bot Beam Bolts Vert Edge Dist	1.500 in



(A-6)_L1 I: LRFD Results Report

Single Column Base Plate Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x16.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Axial	123.22 kips	*Axial load on the column*
Strong Axis Shear	-0.00 kips	*Shear load on the column that causes strong axis bending*
Weak Axis Shear	0.00 kips	*Shear load on the column that causes weak axis bending*
Strong Axis Moment	0.00 kips-ft	*Column moment about the strong axis*
Weak Axis Moment	0.00 kips-ft	*Column moment about the weak axis*

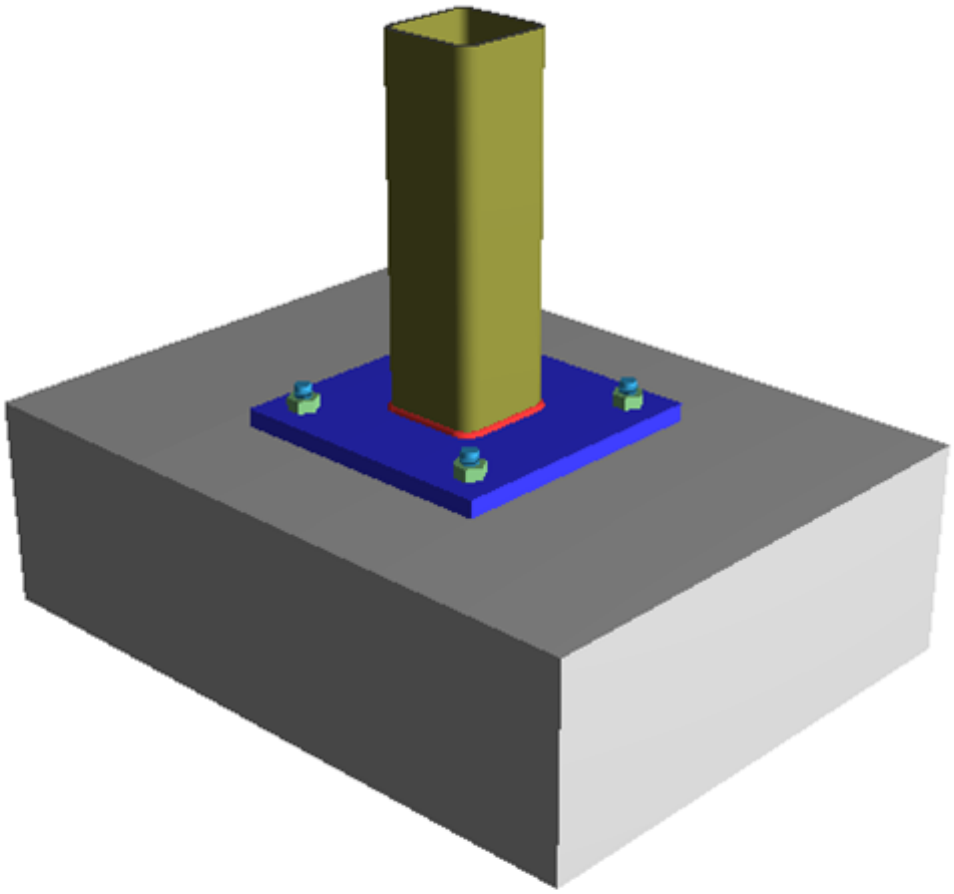
Governing LC: 3D - 7 - IBC 16-3 (b) (c)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions				**PASS**
Concrete Bearing	0.48 ksi	4.14 ksi	**0.12**	**PASS**
Lateral Slip	0.00 kips	50.83 kips	**0.00**	**PASS**
Plate Flexural Yielding(Compression)	0.53 kips-ft/in	0.67 kips-ft/in	**0.79**	**PASS**
Column Weld Limitations				**PASS**
Column Flange Weld Strength	0.00 kips/ft	66.82 kips/ft	**0.00**	**PASS**
Column Web Weld Strength	0.00 kips/ft	66.82 kips/ft	**0.00**	**PASS**

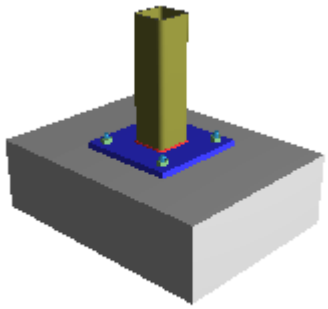
(A-6)_L1 I: Connection Properties Report

Connection	
Connection Title	(A-6)_L1 I
Connection Type	Single Column Base Plate Connection
Connection Category	
Bolt Layout	Four
Plate Washers	No
Loading (LRFD)	
Custom?	No
Axial	123.222 kips
Strong Axis Shear	-0.004 kips
Weak Axis Shear	0.001 kips
Strong Axis Moment	0.000 kips-ft
Weak Axis Moment	0.000 kips-ft
Components	
Column Section	HSS6X6X6
Material	A500 Gr.B RECT
Base Plate	P1.00x16.00x16.00
Material	A36
Length	16.000 in
Width	16.000 in
Thickness	1.000 in
Static Friction Coefficient	0.550 Coeff
Hole Type	OVS
Concrete Support	C40.00x30.00x12.00
Length	40.000 in
Width	30.000 in
Thickness	
Compressive Strength (f'c)	4.000 ksi
Anchor Bolts	1" F1554 Gr.36-N
Material	F1554 Gr.36-N
Diameter, in.	1"
Bolt Spacing y	12.000 in
Bolt Spacing z	12.000 in
Column Weld	E70
Type	Fillet
Fillet Size	4.000 Sixteenths
Assembly	
Edge Distance y	2.000 in
Edge Distance z	2.000 in



(C-5)_L1 I: LRFD Results Report

Single Column Base Plate Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x16.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Axial	38.43 kips	*Axial load on the column*
Strong Axis Shear	0.27 kips	*Shear load on the column that causes strong axis bending*
Weak Axis Shear	-0.00 kips	*Shear load on the column that causes weak axis bending*
Strong Axis Moment	0.00 kips-ft	*Column moment about the strong axis*
Weak Axis Moment	0.00 kips-ft	*Column moment about the weak axis*

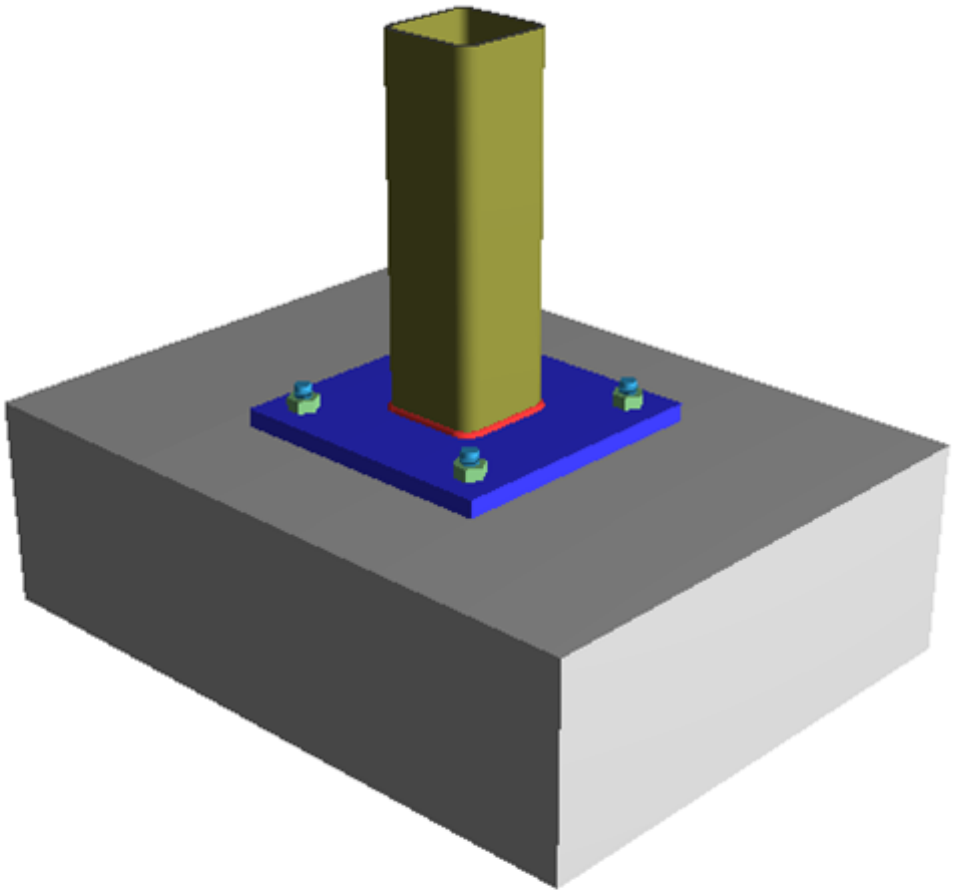
Governing LC: 3D - 7 - IBC 16-3 (b) (c)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions				**PASS**
Concrete Bearing	0.15 ksi	4.14 ksi	**0.04**	**PASS**
Lateral Slip	0.27 kips	15.85 kips	**0.02**	**PASS**
Plate Flexural Yielding(Compression)	0.17 kips-ft/in	0.67 kips-ft/in	**0.25**	**PASS**
Column Weld Limitations				**PASS**
Column Flange Weld Strength	0.00 kips/ft	66.82 kips/ft	**0.00**	**PASS**
Column Web Weld Strength	0.35 kips/ft	66.82 kips/ft	**0.01**	**PASS**

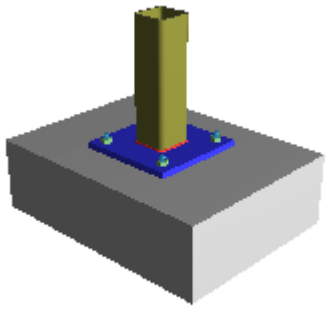
(C-5)_L1 I: Connection Properties Report

Connection	
Connection Title	(C-5)_L1 I
Connection Type	Single Column Base Plate Connection
Connection Category	
Bolt Layout	Four
Plate Washers	No
Loading (LRFD)	
Custom?	No
Axial	38.434 kips
Strong Axis Shear	0.270 kips
Weak Axis Shear	-0.001 kips
Strong Axis Moment	0.000 kips-ft
Weak Axis Moment	0.000 kips-ft
Components	
Column Section	HSS6X6X6
Material	A500 Gr.B RECT
Base Plate	P1.00x16.00x16.00
Material	A36
Length	16.000 in
Width	16.000 in
Thickness	1.000 in
Static Friction Coefficient	0.550 Coeff
Hole Type	OVS
Concrete Support	C40.00x30.00x12.00
Length	40.000 in
Width	30.000 in
Thickness	
Compressive Strength (f'c)	4.000 ksi
Anchor Bolts	1" F1554 Gr.36-N
Material	F1554 Gr.36-N
Diameter, in.	1"
Bolt Spacing y	12.000 in
Bolt Spacing z	12.000 in
Column Weld	E70
Type	Fillet
Fillet Size	4.000 Sixteenths
Assembly	
Edge Distance y	2.000 in
Edge Distance z	2.000 in



(J-C)_L1 I: LRFD Results Report

Single Column Base Plate Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x16.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Axial	14.43 kips	*Axial load on the column*
Strong Axis Shear	0.00 kips	*Shear load on the column that causes strong axis bending*
Weak Axis Shear	0.00 kips	*Shear load on the column that causes weak axis bending*
Strong Axis Moment	0.00 kips-ft	*Column moment about the strong axis*
Weak Axis Moment	0.00 kips-ft	*Column moment about the weak axis*

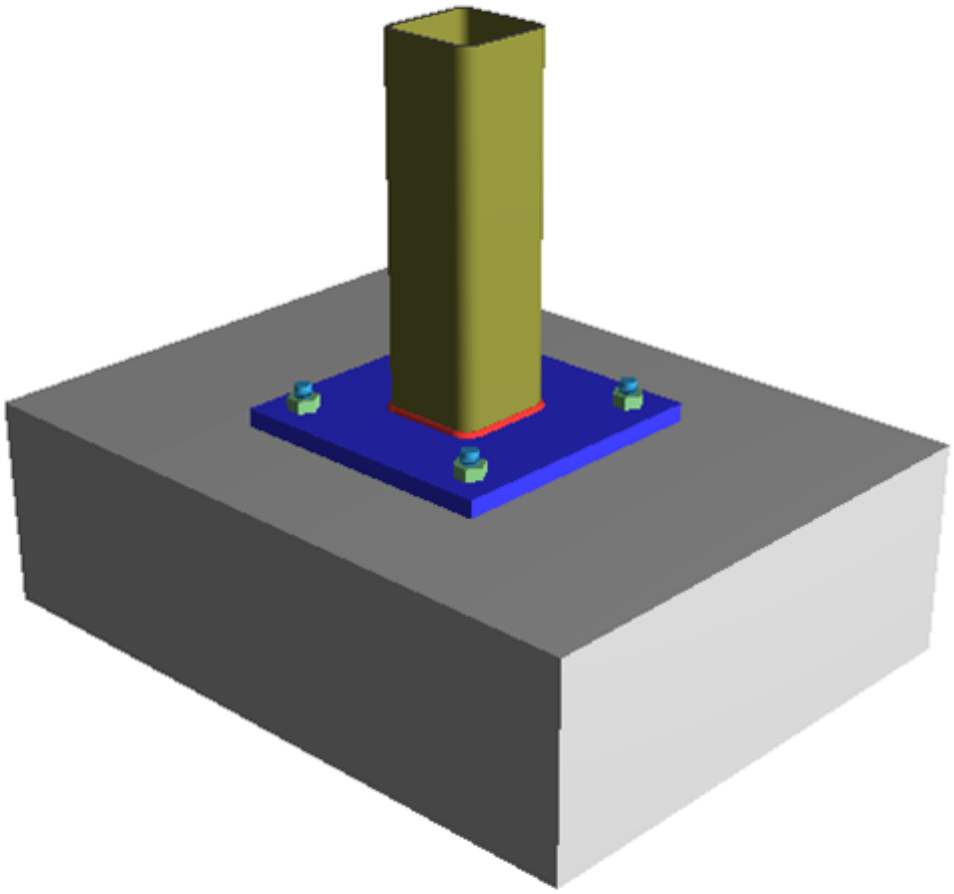
Governing LC: 3D - 5 - IBC 16-3 (b) (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions				**PASS**
Concrete Bearing	0.06 ksi	4.14 ksi	**0.01**	**PASS**
Lateral Slip	0.00 kips	5.95 kips	**0.00**	**PASS**
Plate Flexural Yielding(Compression)	0.06 kips-ft/in	0.67 kips-ft/in	**0.09**	**PASS**
Column Weld Limitations				**PASS**
Column Flange Weld Strength	0.00 kips/ft	66.82 kips/ft	**0.00**	**PASS**
Column Web Weld Strength	0.00 kips/ft	66.82 kips/ft	**0.00**	**PASS**

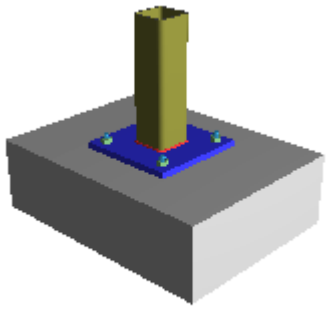
(J-C)_L1 I: Connection Properties Report

Connection	
Connection Title	(J-C)_L1 I
Connection Type	Single Column Base Plate Connection
Connection Category	
Bolt Layout	Four
Plate Washers	No
Loading (LRFD)	
Custom?	No
Axial	14.426 kips
Strong Axis Shear	0.001 kips
Weak Axis Shear	0.000 kips
Strong Axis Moment	0.000 kips-ft
Weak Axis Moment	0.000 kips-ft
Components	
Column Section	HSS6X6X6
Material	A500 Gr.B RECT
Base Plate	P1.00x16.00x16.00
Material	A36
Length	16.000 in
Width	16.000 in
Thickness	1.000 in
Static Friction Coefficient	0.550 Coeff
Hole Type	OVS
Concrete Support	C40.00x30.00x12.00
Length	40.000 in
Width	30.000 in
Thickness	
Compressive Strength (f'c)	4.000 ksi
Anchor Bolts	1" F1554 Gr.36-N
Material	F1554 Gr.36-N
Diameter, in.	1"
Bolt Spacing y	12.000 in
Bolt Spacing z	12.000 in
Column Weld	E70
Type	Fillet
Fillet Size	4.000 Sixteenths
Assembly	
Edge Distance y	2.000 in
Edge Distance z	2.000 in



(M-D)_L1 I: LRFD Results Report

Single Column Base Plate Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x16.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Axial	37.15 kips	*Axial load on the column*
Strong Axis Shear	-0.00 kips	*Shear load on the column that causes strong axis bending*
Weak Axis Shear	0.00 kips	*Shear load on the column that causes weak axis bending*
Strong Axis Moment	0.00 kips-ft	*Column moment about the strong axis*
Weak Axis Moment	0.00 kips-ft	*Column moment about the weak axis*

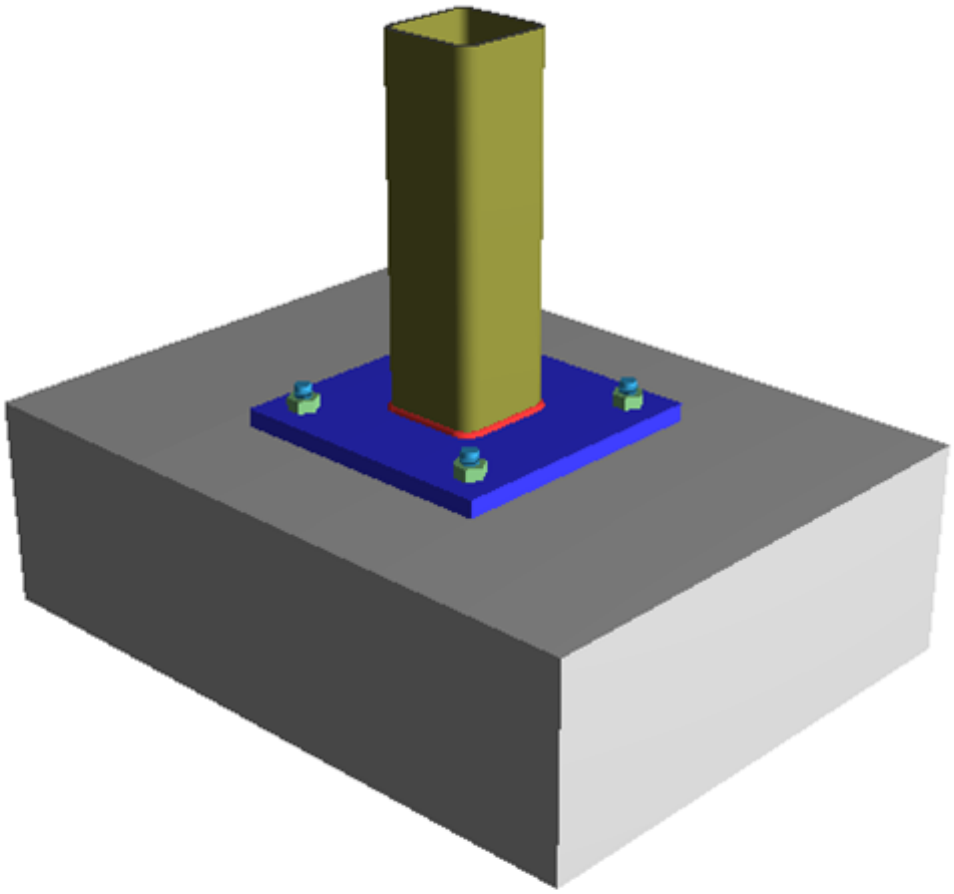
Governing LC: 3D - 5 - IBC 16-3 (b) (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions				**PASS**
Concrete Bearing	0.15 ksi	4.14 ksi	**0.04**	**PASS**
Lateral Slip	0.00 kips	15.33 kips	**0.00**	**PASS**
Plate Flexural Yielding(Compression)	0.16 kips-ft/in	0.67 kips-ft/in	**0.24**	**PASS**
Column Weld Limitations				**PASS**
Column Flange Weld Strength	0.00 kips/ft	66.82 kips/ft	**0.00**	**PASS**
Column Web Weld Strength	0.00 kips/ft	66.82 kips/ft	**0.00**	**PASS**

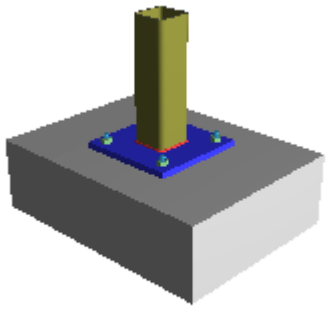
(M-D)_L1 I: Connection Properties Report

Connection	
Connection Title	(M-D)_L1 I
Connection Type	Single Column Base Plate Connection
Connection Category	
Bolt Layout	Four
Plate Washers	No
Loading (LRFD)	
Custom?	No
Axial	37.152 kips
Strong Axis Shear	0.000 kips
Weak Axis Shear	0.001 kips
Strong Axis Moment	0.000 kips-ft
Weak Axis Moment	0.000 kips-ft
Components	
Column Section	HSS6X6X6
Material	A500 Gr.B RECT
Base Plate	P1.00x16.00x16.00
Material	A36
Length	16.000 in
Width	16.000 in
Thickness	1.000 in
Static Friction Coefficient	0.550 Coeff
Hole Type	OVS
Concrete Support	C40.00x30.00x12.00
Length	40.000 in
Width	30.000 in
Thickness	
Compressive Strength (f'c)	4.000 ksi
Anchor Bolts	1" F1554 Gr.36-N
Material	F1554 Gr.36-N
Diameter, in.	1"
Bolt Spacing y	12.000 in
Bolt Spacing z	12.000 in
Column Weld	E70
Type	Fillet
Fillet Size	4.000 Sixteenths
Assembly	
Edge Distance y	2.000 in
Edge Distance z	2.000 in



C15_L1 I: LRFD Results Report

Single Column Base Plate Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x16.00x16.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Axial	59.27 kips	*Axial load on the column*
Strong Axis Shear	0.00 kips	*Shear load on the column that causes strong axis bending*
Weak Axis Shear	0.00 kips	*Shear load on the column that causes weak axis bending*
Strong Axis Moment	0.00 kips-ft	*Column moment about the strong axis*
Weak Axis Moment	0.00 kips-ft	*Column moment about the weak axis*

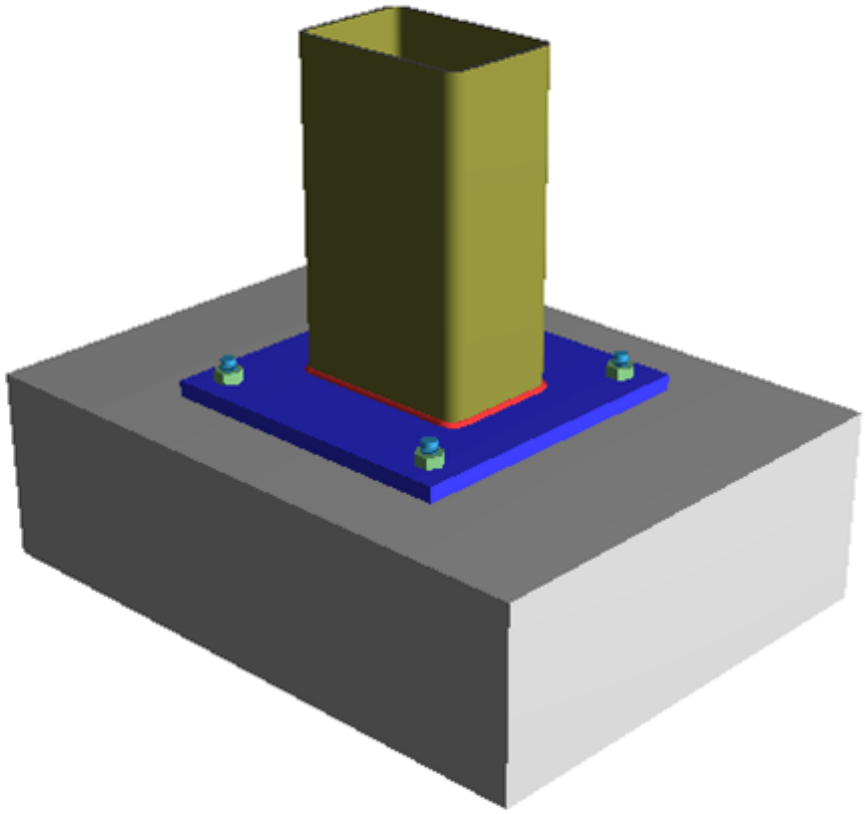
Governing LC: 3D - 7 - IBC 16-3 (b) (c)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions				**PASS**
Concrete Bearing	0.23 ksi	4.14 ksi	**0.06**	**PASS**
Lateral Slip	0.00 kips	24.45 kips	**0.00**	**PASS**
Plate Flexural Yielding(Compression)	0.26 kips-ft/in	0.67 kips-ft/in	**0.38**	**PASS**
Column Weld Limitations				**PASS**
Column Flange Weld Strength	0.00 kips/ft	66.82 kips/ft	**0.00**	**PASS**
Column Web Weld Strength	0.00 kips/ft	66.82 kips/ft	**0.00**	**PASS**

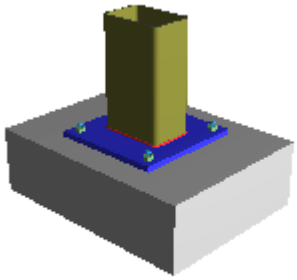
C15_L1 I: Connection Properties Report

Connection	
Connection Title	C15_L1 I
Connection Type	Single Column Base Plate Connection
Connection Category	
Bolt Layout	Four
Plate Washers	No
Loading (LRFD)	
Custom?	No
Axial	59.271 kips
Strong Axis Shear	0.000 kips
Weak Axis Shear	0.000 kips
Strong Axis Moment	0.000 kips-ft
Weak Axis Moment	0.000 kips-ft
Components	
Column Section	HSS6X6X6
Material	A500 Gr.B RECT
Base Plate	P1.00x16.00x16.00
Material	A36
Length	16.000 in
Width	16.000 in
Thickness	1.000 in
Static Friction Coefficient	0.550 Coeff
Hole Type	OVS
Concrete Support	C40.00x30.00x12.00
Length	40.000 in
Width	30.000 in
Thickness	
Compressive Strength (f'c)	4.000 ksi
Anchor Bolts	1" F1554 Gr.36-N
Material	F1554 Gr.36-N
Diameter, in.	1"
Bolt Spacing y	12.000 in
Bolt Spacing z	12.000 in
Column Weld	E70
Type	Fillet
Fillet Size	4.000 Sixteenths
Assembly	
Edge Distance y	2.000 in
Edge Distance z	2.000 in



C19_L1 I: LRFD Results Report

Single Column Base Plate Connection



Material Properties:				
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x20.00x20.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Axial	106.54 kips	*Axial load on the column*
Strong Axis Shear	15.90 kips	*Shear load on the column that causes strong axis bending*
Weak Axis Shear	-0.43 kips	*Shear load on the column that causes weak axis bending*
Strong Axis Moment	0.00 kips-ft	*Column moment about the strong axis*
Weak Axis Moment	0.00 kips-ft	*Column moment about the weak axis*

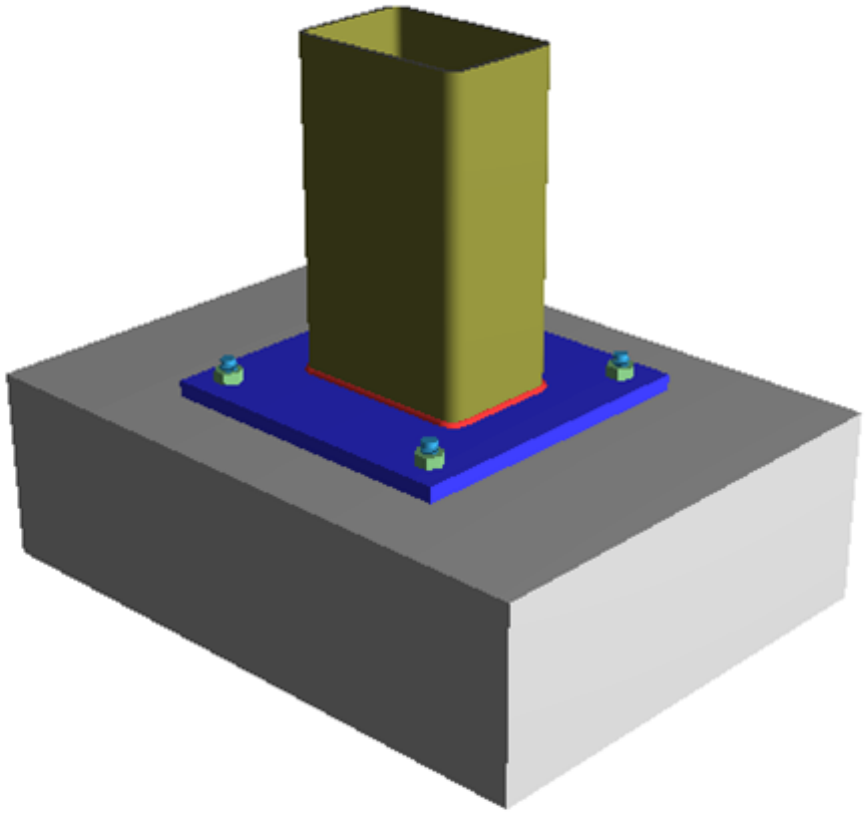
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions				**PASS**
Concrete Bearing	0.27 ksi	3.31 ksi	**0.08**	**PASS**
Lateral Slip	15.91 kips	43.95 kips	**0.36**	**PASS**
Plate Flexural Yielding(Compression)	0.43 kips-ft/in	0.67 kips-ft/in	**0.63**	**PASS**
Column Weld Limitations				**PASS**
Column Flange Weld Strength	0.39 kips/ft	66.82 kips/ft	**0.01**	**PASS**
Column Web Weld Strength	9.00 kips/ft	66.82 kips/ft	**0.13**	**PASS**

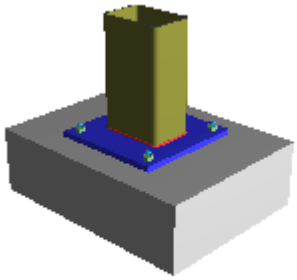
C19_L1 I: Connection Properties Report

Connection	
Connection Title	C19_L1 I
Connection Type	Single Column Base Plate Connection
Connection Category	
Bolt Layout	Four
Plate Washers	No
Loading (LRFD)	
Custom?	No
Axial	106.543 kips
Strong Axis Shear	15.904 kips
Weak Axis Shear	-0.425 kips
Strong Axis Moment	0.000 kips-ft
Weak Axis Moment	0.000 kips-ft
Components	
Column Section	HSS12X8X6
Material	A500 Gr.B RECT
Base Plate	P1.00x20.00x20.00
Material	A36
Length	20.000 in
Width	20.000 in
Thickness	1.000 in
Static Friction Coefficient	0.550 Coeff
Hole Type	OVS
Concrete Support	C40.00x30.00x12.00
Length	40.000 in
Width	30.000 in
Thickness	
Compressive Strength (f'c)	4.000 ksi
Anchor Bolts	1" F1554 Gr.36-N
Material	F1554 Gr.36-N
Diameter, in.	1"
Bolt Spacing y	16.000 in
Bolt Spacing z	16.000 in
Column Weld	E70
Type	Fillet
Fillet Size	4.000 Sixteenths
Assembly	
Edge Distance y	2.000 in
Edge Distance z	2.000 in



C20_L1 I: LRFD Results Report

Single Column Base Plate Connection



Material Properties:				
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x20.00x20.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Axial	60.73 kips	*Axial load on the column*
Strong Axis Shear	-3.78 kips	*Shear load on the column that causes strong axis bending*
Weak Axis Shear	-0.61 kips	*Shear load on the column that causes weak axis bending*
Strong Axis Moment	0.00 kips-ft	*Column moment about the strong axis*
Weak Axis Moment	0.00 kips-ft	*Column moment about the weak axis*

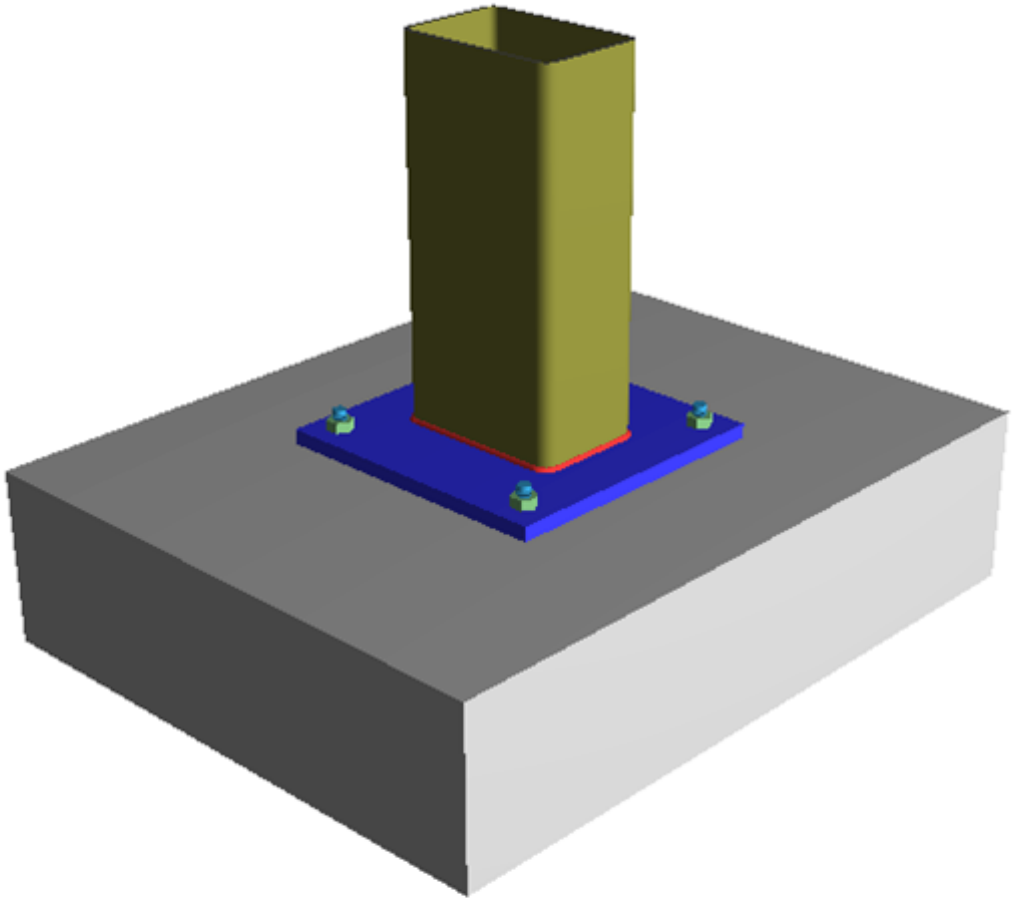
Governing LC: 3D - 4 - IBC 16-3 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions				**PASS**
Concrete Bearing	0.15 ksi	3.31 ksi	**0.05**	**PASS**
Lateral Slip	3.83 kips	25.05 kips	**0.15**	**PASS**
Plate Flexural Yielding(Compression)	0.24 kips-ft/in	0.67 kips-ft/in	**0.36**	**PASS**
Column Weld Limitations				**PASS**
Column Flange Weld Strength	0.56 kips/ft	66.82 kips/ft	**0.01**	**PASS**
Column Web Weld Strength	2.14 kips/ft	66.82 kips/ft	**0.03**	**PASS**

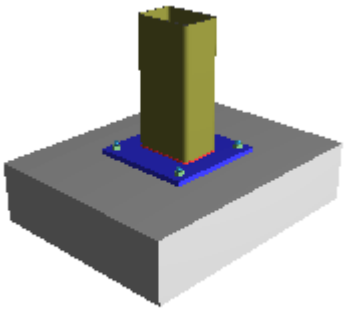
C20_L1 I: Connection Properties Report

Connection	
Connection Title	C20_L1 I
Connection Type	Single Column Base Plate Connection
Connection Category	
Bolt Layout	Four
Plate Washers	No
Loading (LRFD)	
Custom?	No
Axial	60.730 kips
Strong Axis Shear	-3.783 kips
Weak Axis Shear	-0.614 kips
Strong Axis Moment	0.000 kips-ft
Weak Axis Moment	0.000 kips-ft
Components	
Column Section	HSS12X8X6
Material	A500 Gr.B RECT
Base Plate	P1.00x20.00x20.00
Material	A36
Length	20.000 in
Width	20.000 in
Thickness	1.000 in
Static Friction Coefficient	0.550 Coeff
Hole Type	OVS
Concrete Support	C40.00x30.00x12.00
Length	40.000 in
Width	30.000 in
Thickness	
Compressive Strength (f'c)	4.000 ksi
Anchor Bolts	1" F1554 Gr.36-N
Material	F1554 Gr.36-N
Diameter, in.	1"
Bolt Spacing y	16.000 in
Bolt Spacing z	16.000 in
Column Weld	E70
Type	Fillet
Fillet Size	4.000 Sixteenths
Assembly	
Edge Distance y	2.000 in
Edge Distance z	2.000 in



M221 I: LRFD Results Report

Single Column Base Plate Connection



Material Properties:				
Column	HSS12X8X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x20.00x20.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Axial	1.67 kips	*Axial load on the column*
Strong Axis Shear	-0.01 kips	*Shear load on the column that causes strong axis bending*
Weak Axis Shear	0.51 kips	*Shear load on the column that causes weak axis bending*
Strong Axis Moment	0.00 kips-ft	*Column moment about the strong axis*
Weak Axis Moment	0.00 kips-ft	*Column moment about the weak axis*

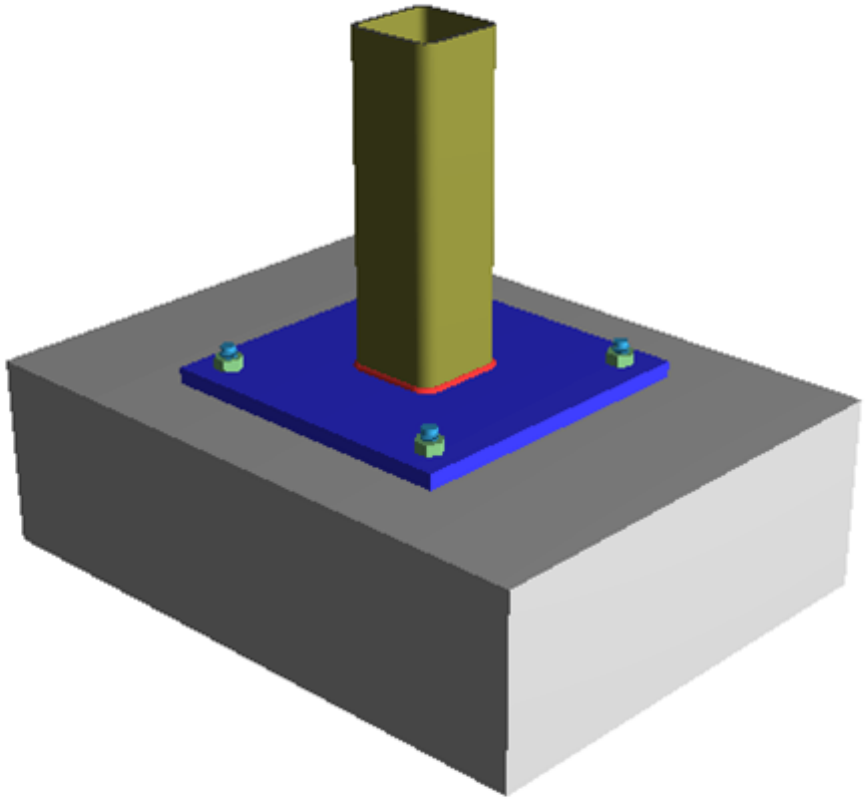
Governing LC: 3D - 2 - IBC 16-2 (a)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions				**PASS**
Concrete Bearing	0.00 ksi	4.42 ksi	**0.00**	**PASS**
Lateral Slip	0.51 kips	0.69 kips	**0.74**	**PASS**
Plate Flexural Yielding(Compression)	0.01 kips-ft/in	0.67 kips-ft/in	**0.01**	**PASS**
Column Weld Limitations				**PASS**
Column Flange Weld Strength	0.46 kips/ft	66.82 kips/ft	**0.01**	**PASS**
Column Web Weld Strength	0.00 kips/ft	66.82 kips/ft	**0.00**	**PASS**

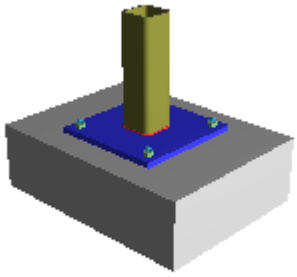
M221 I: Connection Properties Report

Connection	
Connection Title	M221 I
Connection Type	Single Column Base Plate Connection
Connection Category	
Bolt Layout	Four
Plate Washers	No
Loading (LRFD)	
Custom?	No
Axial	1.667 kips
Strong Axis Shear	-0.007 kips
Weak Axis Shear	0.508 kips
Strong Axis Moment	0.000 kips-ft
Weak Axis Moment	0.000 kips-ft
Components	
Column Section	HSS12X8X6
Material	A500 Gr.B RECT
Base Plate	P1.00x20.00x20.00
Material	A36
Length	20.000 in
Width	20.000 in
Thickness	1.000 in
Static Friction Coefficient	0.550 Coeff
Hole Type	OVS
Concrete Support	C40.00x50.00x12.00
Length	40.000 in
Width	50.000 in
Thickness	
Compressive Strength (f'c)	4.000 ksi
Anchor Bolts	1" F1554 Gr.36-N
Material	F1554 Gr.36-N
Diameter, in.	1"
Bolt Spacing y	16.000 in
Bolt Spacing z	16.000 in
Column Weld	E70
Type	Fillet
Fillet Size	4.000 Sixteenths
Assembly	
Edge Distance y	2.000 in
Edge Distance z	2.000 in



M249 I: LRFD Results Report

Single Column Base Plate Connection



Material Properties:				
Column	HSS6X6X6	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.00x20.00x20.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Axial	43.12 kips	*Axial load on the column*
Strong Axis Shear	0.51 kips	*Shear load on the column that causes strong axis bending*
Weak Axis Shear	0.29 kips	*Shear load on the column that causes weak axis bending*
Strong Axis Moment	0.00 kips-ft	*Column moment about the strong axis*
Weak Axis Moment	0.00 kips-ft	*Column moment about the weak axis*

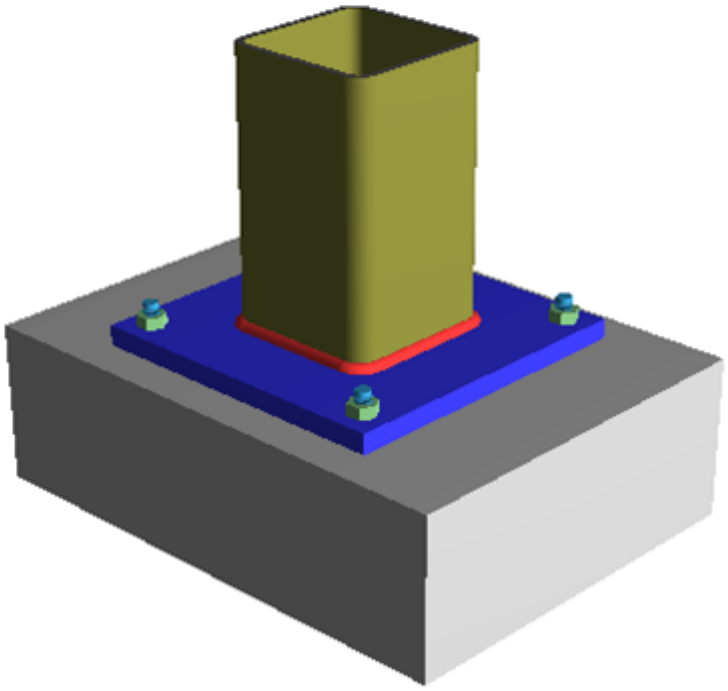
Governing LC: 3D - 7 - IBC 16-3 (b) (c)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions				**PASS**
Concrete Bearing	0.11 ksi	3.31 ksi	**0.03**	**PASS**
Lateral Slip	0.58 kips	17.79 kips	**0.03**	**PASS**
Plate Flexural Yielding(Compression)	0.23 kips-ft/in	0.67 kips-ft/in	**0.34**	**PASS**
Column Weld Limitations				**PASS**
Column Flange Weld Strength	0.38 kips/ft	66.82 kips/ft	**0.01**	**PASS**
Column Web Weld Strength	0.66 kips/ft	66.82 kips/ft	**0.01**	**PASS**

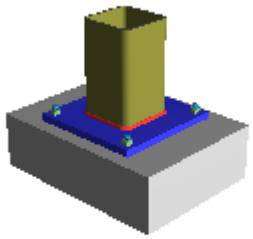
M249 I: Connection Properties Report

Connection	
Connection Title	M249 I
Connection Type	Single Column Base Plate Connection
Connection Category	
Bolt Layout	Four
Plate Washers	No
Loading (LRFD)	
Custom?	No
Axial	43.123 kips
Strong Axis Shear	0.506 kips
Weak Axis Shear	0.293 kips
Strong Axis Moment	0.000 kips-ft
Weak Axis Moment	0.000 kips-ft
Components	
Column Section	HSS6X6X6
Material	A500 Gr.B RECT
Base Plate	P1.00x20.00x20.00
Material	A36
Length	20.000 in
Width	20.000 in
Thickness	1.000 in
Static Friction Coefficient	0.550 Coeff
Hole Type	OVS
Concrete Support	C40.00x30.00x12.00
Length	40.000 in
Width	30.000 in
Thickness	
Compressive Strength (f'c)	4.000 ksi
Anchor Bolts	1" F1554 Gr.36-N
Material	F1554 Gr.36-N
Diameter, in.	1"
Bolt Spacing y	16.000 in
Bolt Spacing z	16.000 in
Column Weld	E70
Type	Fillet
Fillet Size	4.000 Sixteenths
Assembly	
Edge Distance y	2.000 in
Edge Distance z	2.000 in



M223 I: LRFD Results Report

Single Column Base Plate Connection



Material Properties:				
Column	HSS12X12X10	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P1.50x24.00x24.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Axial	49.82 kips	*Axial load on the column*
Strong Axis Shear	1.18 kips	*Shear load on the column that causes strong axis bending*
Weak Axis Shear	6.61 kips	*Shear load on the column that causes weak axis bending*
Strong Axis Moment	103.27 kips-ft	*Column moment about the strong axis*
Weak Axis Moment	-55.60 kips-ft	*Column moment about the weak axis*

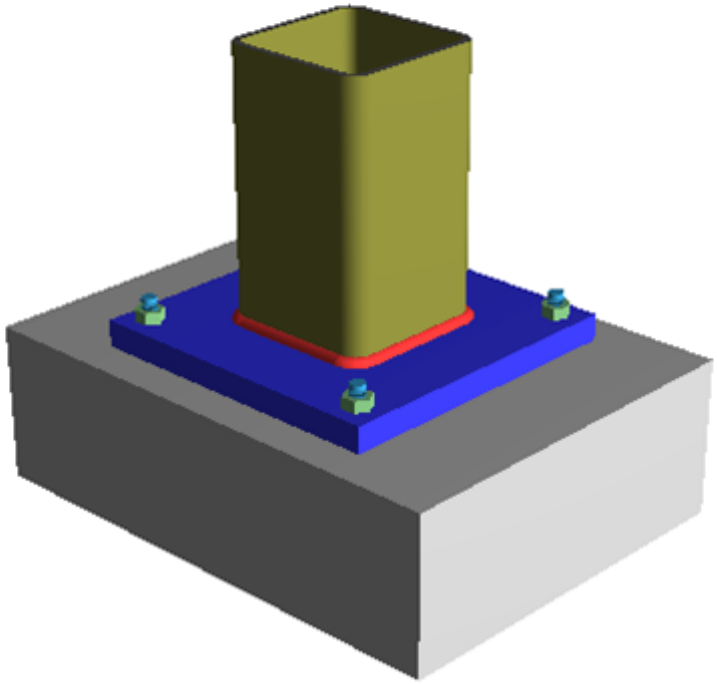
Governing LC: 3D - 6 - IBC 16-3 (b) (b)

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions				**PASS**
Load Distribution (Strong Axis)				**n/a**
Load Distribution (Weak Axis)				**n/a**
Concrete Bearing			**1.00**	**PASS**
Lateral Slip			**0.57**	**PASS**
Plate Flexural Yielding(Compression)(Strong Axis)	1.62 kips-ft/in	1.52 kips-ft/in	**1.07**	**FAIL**
Plate Flexural Yielding(Compression)(Weak Axis)	1.11 kips-ft/in	1.52 kips-ft/in	**0.73**	**PASS**
Plate Flexural Yielding(Tension)(Strong Axis)	5.62 kips-ft	9.57 kips-ft	**0.59**	**PASS**
Plate Flexural Yielding(Tension)(Weak Axis)	0.74 kips-ft	9.57 kips-ft	**0.08**	**PASS**
Anchor Bolt Tension (Strong Axis)	15.69 kips	40.04 kips	**0.39**	**PASS**
Anchor Bolt Tension (Weak Axis)				**N/A**
Column Weld Limitations				**PASS**
Column Flange Weld Strength	128.14 kips/ft	150.34 kips/ft	**0.85**	**PASS**
Column Web Weld Strength	68.96 kips/ft	150.34 kips/ft	**0.46**	**PASS**

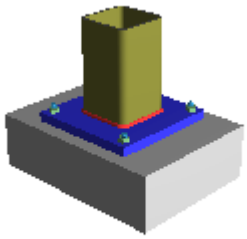
M223 I: Connection Properties Report

Connection	
Connection Title	M223 I
Connection Type	Single Column Base Plate Connection
Connection Category	
Bolt Layout	Four
Plate Washers	No
Loading (LRFD)	
Custom?	No
Axial	49.820 kips
Strong Axis Shear	1.179 kips
Weak Axis Shear	6.614 kips
Strong Axis Moment	103.274 kips-ft
Weak Axis Moment	-55.599 kips-ft
Components	
Column Section	HSS12X12X10
Material	A500 Gr.B RECT
Base Plate	P1.50x24.00x24.00
Material	A36
Length	24.000 in
Width	24.000 in
Thickness	1.500 in
Static Friction Coefficient	0.550 Coeff
Hole Type	OVS
Concrete Support	C40.00x30.00x12.00
Length	40.000 in
Width	30.000 in
Thickness	
Compressive Strength (f'c)	4.000 ksi
Anchor Bolts	1 1/4" F1554 Gr.36-N
Material	F1554 Gr.36-N
Diameter, in.	1 1/4"
Bolt Spacing y	20.000 in
Bolt Spacing z	20.000 in
Column Weld	E70
Type	Fillet
Fillet Size	9.000 Sixteenths
Assembly	
Edge Distance y	2.000 in
Edge Distance z	2.000 in



M229 I: LRFD Results Report

Single Column Base Plate Connection



Material Properties:				
Column	HSS12X12X10	A500 Gr.B RECT	F_y = 46.00 ksi	F_u = 58.00 ksi
Base Plate	P2.00x24.00x24.00	A36	F_y = 36.00 ksi	F_u = 58.00 ksi

Input Data:		
Axial	18.07 kips	*Axial load on the column*
Strong Axis Shear	0.64 kips	*Shear load on the column that causes strong axis bending*
Weak Axis Shear	-3.72 kips	*Shear load on the column that causes weak axis bending*
Strong Axis Moment	20.03 kips-ft	*Column moment about the strong axis*
Weak Axis Moment	-40.17 kips-ft	*Column moment about the weak axis*

Governing LC: 3D - 1 - IBC 16-1

Note: Unless specified, all code references are from AISC 360-16

Limit State	Required	Available	Unity Check	Result
Geometry Restrictions				**PASS**
Load Distribution (Strong Axis)				**n/a**
Load Distribution (Weak Axis)				**n/a**
Concrete Bearing			**1.00**	**PASS**
Lateral Slip			**0.90**	**PASS**
Plate Flexural Yielding(Compression)(Strong Axis)	0.41 kips-ft/in	2.70 kips-ft/in	**0.15**	**PASS**
Plate Flexural Yielding(Compression)(Weak Axis)	0.66 kips-ft/in	2.70 kips-ft/in	**0.24**	**PASS**
Plate Flexural Yielding(Tension)(Strong Axis)	0.21 kips-ft	17.01 kips-ft	**0.01**	**PASS**
Plate Flexural Yielding(Tension)(Weak Axis)	2.21 kips-ft	17.01 kips-ft	**0.13**	**PASS**
Anchor Bolt Tension (Strong Axis)				**N/A**
Anchor Bolt Tension (Weak Axis)				**N/A**
Column Weld Limitations				**PASS**
Column Flange Weld Strength	24.95 kips/ft	150.34 kips/ft	**0.17**	**PASS**
Column Web Weld Strength	49.82 kips/ft	150.34 kips/ft	**0.33**	**PASS**

M229 I: Connection Properties Report

Connection	
Connection Title	M229 I
Connection Type	Single Column Base Plate Connection
Connection Category	
Bolt Layout	Four
Plate Washers	No
Loading (LRFD)	
Custom?	No
Axial	18.071 kips
Strong Axis Shear	0.636 kips
Weak Axis Shear	-3.717 kips
Strong Axis Moment	20.033 kips-ft
Weak Axis Moment	-40.168 kips-ft
Components	
Column Section	HSS12X12X10
Material	A500 Gr.B RECT
Base Plate	P2.00x24.00x24.00
Material	A36
Length	24.000 in
Width	24.000 in
Thickness	2.000 in
Static Friction Coefficient	0.550 Coeff
Hole Type	OVS
Concrete Support	C40.00x30.00x12.00
Length	40.000 in
Width	30.000 in
Thickness	
Compressive Strength (f'c)	4.000 ksi
Anchor Bolts	1 1/4" F1554 Gr.36-N
Material	F1554 Gr.36-N
Diameter, in.	1 1/4"
Bolt Spacing y	20.000 in
Bolt Spacing z	20.000 in
Column Weld	E70
Type	Fillet
Fillet Size	9.000 Sixteenths
Assembly	
Edge Distance y	2.000 in
Edge Distance z	2.000 in