



July 17, 2017

Melanie A. Bachman
Executive Director
Connecticut Siting Council
10 Franklin Street
New Britain, CT 06051

RE: EM-AT&T-033-170615 - AT&T Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 100 Berlin Road, Cromwell, Connecticut (AT&T Site CT5144)

Dear Ms. Bachman:

I am writing in response to the enclosed letter dated July 3, 2017 to my colleague, Sarah Snell, regarding the above-referenced exempt modification request.

It is the opinion of the Engineer that the structural analysis report was run correctly and should be accepted. The proposed equipment does not increase the structural usage by more than 5%. Accordingly, the analysis may be run to TIA-222-F standards per the guidelines in TIA-222-G, as per the Engineer's explanation. Please see the note on Page 3 of the enclosed structural analysis report under the "Analysis" section indicating same.

Kindly confirm receipt and advise if this information is sufficient to complete the exempt modification request. Please do not hesitate to contact me with any questions, concerns or if you require additional information. Thank you for your attention to this matter.

Sincerely,

A handwritten signature in blue ink, appearing to read "Jiliades".

Jennifer Iliades
Site Acquisition Specialist

Enclosures

cc: The Honorable Enzo Faienza, Mayor, Town of Cromwell
Anthony J. Salvatore, Town Manager, Town of Cromwell
Stuart B. Popper, AICP, Director of Planning and Development, Town of Cromwell
American Tower Corporation
100 Berlin Holdings, LLC



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

www.ct.gov/csc

July 3, 2017

Sarah Snell
Empire Telecom USA, LLC
16 Esquire Road
Billerica, MA 01862

RE: **EM-AT&T-033-170615** – AT&T Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 100 Berlin Road, Cromwell, Connecticut.

Dear Ms. Snell:

The Connecticut Siting Council (Council) received a notice of intent to modify the above-referenced facility on June 15, 2017. On June 21, 2017, the Council sent you a letter stating that your filing was incomplete because the structural analysis report was run using ANSI/TIA/EIA-222-F standards and was not stamped and signed by a Professional Engineer duly licensed in the State of Connecticut. The Council requested that Empire Telecom USA, LLC provide a structural analysis report using the most current ANSI/TIA/EIA-222 Revision G standard and that is stamped and signed by a Professional Engineer duly licensed in the State of Connecticut.

On June 21, 2017, the Council received a structural analysis report that is stamped and signed by a Professional Engineer duly licensed in the State of Connecticut. However, the structural analysis report still uses the ANSI/TIA/EIA-222-F standards. The Council's previous correspondence requested that the structural analysis report use the most current ANSI/TIA/EIA-222 Revision G standard.

Therefore, the exempt modification request is still incomplete. The Council recommends that Empire Telecom USA, LLC provide a structural analysis report using the most current ANSI/TIA/EIA-222 Revision G standard and that is stamped and signed by a Professional Engineer duly licensed in the State of Connecticut on or before July 17, 2017. If additional time is needed to gather the requested information, please submit a written request for an extension of time prior to July 17, 2017.

This notice of incompleteness shall have the effect of tolling the Federal Communications Commission (FCC) 60-day timeframe in accordance with Paragraph 217 of the FCC Wireless Infrastructure Report and Order issued on October 21, 2014 (FCC 14-153).

Thank you for your attention to this matter. Should you have any questions, please feel free to contact me at 860-827-2951.

Very truly yours,

Melanie Bachman
Executive Director

MAB/CW

c: The Honorable Enzo Faienza, Mayor, Town of Cromwell
Anthony J. Salvatore, Town Manager, Town of Cromwell





AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 111 ft Self Supported Tower
ATC Site Name : CromwellSW CT, CT
ATC Site Number : 411261
Engineering Number : OAA702243_C3_01
Proposed Carrier : AT&T MOBILITY
Carrier Site Name : Cromwell South
Carrier Site Number : CT-5144/FA#10070987
Site Location : 100 Berlin Road
Cromwell, CT
41.606210, -72.701206
County : Middlesex
Date : May 22, 2017
Max Usage : 60%
Result : Pass

Prepared By:
Brian Davies, E.I.
Structural Engineer II

Brian Davies

Reviewed By:



May 22 2017 5:15 PM **cosign**

COA: PEC.0001553



Table of Contents

Introduction	1
Supporting Documents	1
Analysis	1
Conclusion.....	1
Existing and Reserved Equipment.....	2
Equipment to be Removed.....	2
Proposed Equipment	2
Structure Usages	3
Foundations	3
Deflection, Twist, and Sway.....	3
Standard Conditions	4
Calculations	Attached



Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 111 ft self supported tower to reflect the change in loading by AT&T MOBILITY.

Supporting Documents

Tower Drawings	Mapping by ETS, Job #150929.01, dated August 21, 2015
Foundation Drawing	Mapping by ETS, Job #150929.01, dated August 21, 2015 Mapping by ETS, Job #150929.01, dated June 13, 2016
Geotechnical Report	FDH Velocitel Project #15BWZR1600, dated August 18, 2015

Analysis

The tower was analyzed using Risa 3D tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/EIA-222.

Basic Wind Speed:	85 mph (Fastest Mile)
Basic Wind Speed w/ Ice:	74 mph (Fastest Mile)w/ 1/2" radial ice concurrent
Code:	ANSI/TIA/EIA-222-F / 2012 IBC , Sec. 1609.1.1, Exception (4) & Sec. 3108.4 / 2016 Connecticut State Building Code

*The proposed equipment does not increase the structural usage by more than 5%, so per guidelines in TIA-222-G, Addendum 2, Sec. 15.4, this analysis may be run to TIA-222-F standards.

Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

If you have any questions or require additional information, please contact American Tower via email at Engineering@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.



Existing and Reserved Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
108.0	108.0	3	Ericsson KRY 112 71	Low Profile Platform	(18) 1 5/8" Coax (1) 1 5/8" Fiber	T-Mobile
		3	Ericsson RRUS 11 B12			
		3	Ericsson AIR 21 B4A B2P			
		3	Ericsson AIR 21 B4A/12-B5P 2.4M			
98.0	98.0	3	Ericsson RRUS 11 B2	Platform w/ Handrails	-	AT&T Mobility
		3	Ericsson RRUS-32			
		3	Powerwave 7770.00			
		3	CCI OPA-65R-LCUU-H6			
95.0	95.0	2	Raycap DC6-48-60-18-8F	Leg/Flush	(12) 1 5/8" Coax (4) 0.78" 8 AWG 6 (2) 0.39" Fiber Trunk (1) 1 5/8" Hybriflex	AT&T Mobility
		12	Powerwave LGP21401	Low Profile Platform		
83.0	83.0	1	GPS	Platform w/ Handrails	(18) 1 5/8" Coax (1) 1 5/8" Hybriflex (1) 1/2" Coax	Verizon
		3	Alcatel-Lucent RRH2x40-AWS			
		1	Raycap RRFDC-3315-PF-48			
		6	Antel BXA-171085-12BF-EDIN-X			
		4	Decibel DB846F65ZAXY			
		3	Antel BXA-70063/6CF_4			
		2	Antel LPA-80080/6CF_			
80.0	80.0	3	RFS APXV18-206517S-C	-	(6) 1 5/8" Coax	Metro PCS
50.0	50.0	1	NAIS VIC-100	-	-	T-Mobile

Equipment to be Removed

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
98.0	98.0	3	KMW AM-X-CD-16-65-00T-RET	-	-	AT&T Mobility
		3	Ericsson RRUS 11 B2			

Proposed Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
98.0	98.0	3	Powerwave 7020.00 Dual Band RET	Low Profile Platform	-	AT&T Mobility
		3	Ericsson RRUS 32 B2	Platform w/ Handrails		
		3	Quintel QS66512-2			

¹Mount elevation is defined as height above bottom of steel structure to the bottom of mount, RAD elevation is defined as center of antenna above ground level (AGL).

Install proposed coax anywhere on tower.



Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Legs	46%	Pass
Diagonals	60%	Pass
Horizontals	60%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Uplift (Kips)	101.7	42%
Axial (Kips)	58.3	17%
Shear (Kips)	16.4	7%

The structure base reactions resulting from this analysis were found to be acceptable through analysis based on geotechnical and foundation information, therefore no modification or reinforcement of the foundation will be required.



Standard Conditions

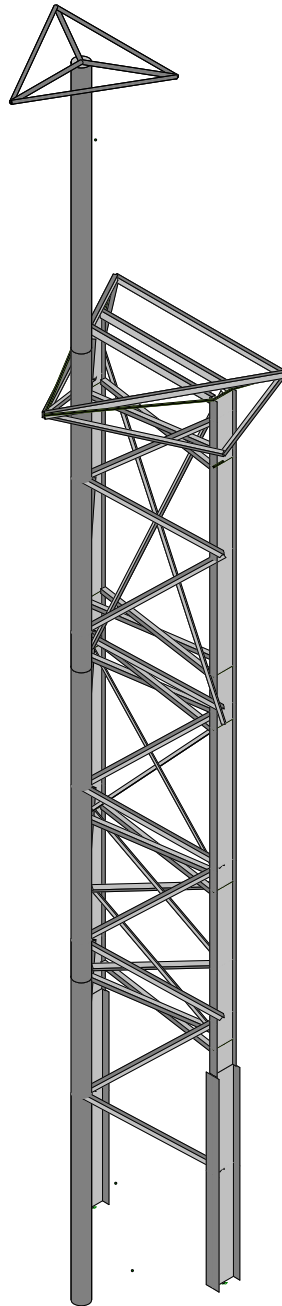
All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but is not necessary limited, to:

- Information supplied by the client regarding the structure itself, antenna, mounts and feed line loading on the structure and its components, or other relevant information.
- Information from drawings in the possession of American Tower Corporation, or generated by field inspections or measurements of the structure.

It is the responsibility of the client to ensure that the information provided to A.T. Engineering Service, PLLC and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that all structures were constructed in accordance with the drawings and specifications and that their capacity has not significantly changed from the "as new" condition.

Unless explicitly agreed by both the client and American Tower Corporation, all services will be performed in accordance with the current revision of ANSI/TIA -222. The design basic wind speed will be determined based on the minimum basic wind speed as prescribed in ANSI/TIA-222. Although every effort is taken to ensure that the loading considered is adequate to meet the requirements of all applicable regulatory entities, we can provide no assurance to meet any other local and state codes or requirements. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes, the client shall specify the exact requirement.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. A.T. Engineering Service, PLLC is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.



AT&T Mobility

DAVI

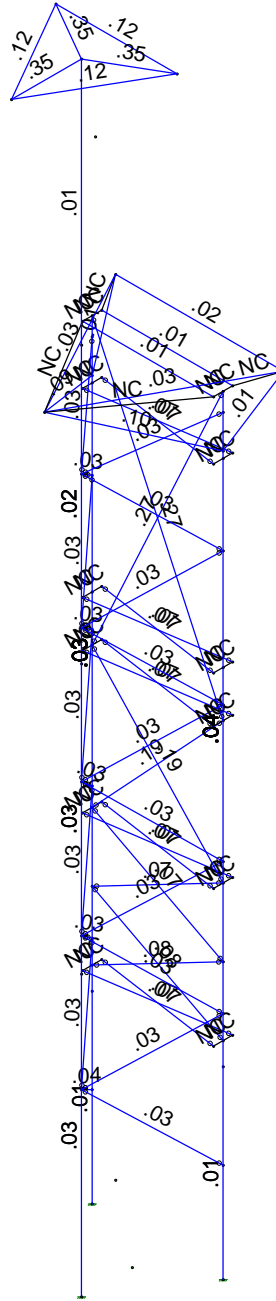
411261

Cromwell SW CT
Structure

SK - 1

May 22, 2017 at 1:53 PM

2017.5.22 - AT&T Mobility - OAA7...



Member Code Checks Displayed
Results for LC 1, D

AT&T Mobility	Cromwell SW CT Usage	SK - 2
DAVI		May 22, 2017 at 1:54 PM
411261		2017.5.22 - AT&T Mobility - OAA7...



Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rul...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	W24x68 w...	W24x68 w...	Beam	Wide Flange	A572 Gr.50	Typical	51.845	753.17	6681.05	27.435
2	L3.5x3.5x0...	L3.5x3.5x5	Beam	Single Angle	A36 Gr.36	Typical	2.1	2.44	2.44	.073
3	L5x5x3/8 w...	L5x5x3/8 w...	Beam	Single Angle	A36 Gr.36	Typical	5.256	9.617	9.617	3.099
4	L3x3x5/16	L3x3x5	Beam	Single Angle	A36 Gr.36	Typical	1.78	1.5	1.5	.06
5	18"x0.5"	HSS18x0.5...	Beam	Pipe	A53 Gr.B	Typical	25.6	985	985	1970
6	WT6x15	WT6x15	Beam	W Tee	A36 Gr.36	Typical	4.4	10.2	13.5	.228
7	HSS6x4x1/4	HSS6x4x4	Beam	Tube	A36 Gr.36	Typical	4.3	11.1	20.9	23.6
8	HSS8x4x1/4	HSS8x4x4	Beam	Tube	A36 Gr.36	Typical	5.24	14.4	42.5	35.3
9	L5x5x3/4	L5x5x12	Beam	Single Angle	A36 Gr.36	Typical	6.98	15.7	15.7	1.33
10	3.5" Pipe	PIPE 3.0	Beam	Pipe	A53 Gr.B	Typical	2.07	2.85	2.85	5.69
11	W24x68	W24x68	Beam	Wide Flange	A572 Gr.50	Typical	20.1	70.4	1830	1.87
12	L5x5x3/8	L5x5x6	Beam	Single Angle	A36 Gr.36	Typical	3.65	8.76	8.76	.183
13	L4x4x5/16 ...	L4x4x5/16 ...	Beam	Single Angle	A36 Gr.36	Typical	3.79	4.63	4.63	2.166
14	HSS4x4x1/4	HSS4x0.250	Beam	Pipe	A36 Gr.36	Typical	2.76	4.91	4.91	9.82

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Dia...
1	N1	0	1	0	0	
2	N2	13.5	1	0	0	
3	N3	6.75	0	7.854167	0	
4	N4	0	11.208333	0	0	
5	N5	13.5	11.208333	0	0	
6	N8	0	22.333333	0	0	
7	N9	13.5	22.333333	0	0	
8	N10	0	24.75	0	0	
9	N11	13.5	24.75	0	0	
10	N6	0	20	0	0	
11	N7	13.5	20	0	0	
12	N12	0	29.375	0	0	
13	N13	13.5	29.375	0	0	
14	N14	0	36.416666	0	0	
15	N15	13.5	36.416666	0	0	
16	N16	0	38.333333	0	0	
17	N17	13.5	38.333333	0	0	
18	N18	0	50.916666	0	0	
19	N19	13.5	50.916666	0	0	
20	N20	0	52.333333	0	0	
21	N21	13.5	52.333333	0	0	
22	N22	0	55.666666	0	0	
23	N23	13.5	55.666666	0	0	
24	N24	0	66.083333	0	0	
25	N25	13.5	66.083333	0	0	
26	N26	0	74.336666	0	0	
27	N27	13.5	74.336666	0	0	
28	N28	0	78.458333	0	0	
29	N29	13.5	78.458333	0	0	
30	N30	0	80.336666	0	0	
31	N31	13.5	80.336666	0	0	
32	N32	6.75	18.5	7.854167	0	
33	N33	6.75	28.833333	7.854167	0	
34	N34	6.75	32.25	7.854167	0	
35	N35	6.75	46	7.854167	0	
36	N36	6.75	56.541667	7.854167	0	
37	N37	6.75	59.75	7.854167	0	



Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Dia...
38	N38	6.75	73.5	7.854167	0	
39	N39	6.75	85.020833	7.854167	0	
40	N40	6.75	110.5625	7.854167	0	
41	N41	0	22.333333	-0.9875	0	
42	N42	13.5	22.333333	-0.9875	0	
43	N43	0	22.333333	0.9875	0	
44	N44	13.5	22.333333	0.9875	0	
45	N45	0	36.416666	-0.9875	0	
46	N46	13.5	36.416666	-0.9875	0	
47	N47	0	36.416666	0.9875	0	
48	N48	13.5	36.416666	0.9875	0	
49	N49	0	50.916666	-0.9875	0	
50	N50	13.5	50.916666	-0.9875	0	
51	N51	0	50.916666	0.9875	0	
52	N52	13.5	50.916666	0.9875	0	
53	N53	0	55.666666	-0.9875	0	
54	N54	13.5	55.666666	-0.9875	0	
55	N55	0	55.666666	0.9875	0	
56	N56	13.5	55.666666	0.9875	0	
57	N57	0	74.336666	-0.9875	0	
58	N58	13.5	74.336666	-0.9875	0	
59	N59	0	74.336666	0.9875	0	
60	N60	13.5	74.336666	0.9875	0	
61	N61	0	80.336666	-0.9875	0	
62	N62	13.5	80.336666	-0.9875	0	
63	N63	0	80.336666	0.9875	0	
64	N64	13.5	80.336666	0.9875	0	
65	N67	-1.9103	80.92	-4.320833	0	
66	N68	15.4103	80.92	-4.320833	0	
67	N69	6.75	80.92	11.666667	0	
68	N68A	0	75.003333	0	0	
69	N69A	13.5	75.003333	0	0	
70	N93	.5	110.5625	4.2457	0	
71	N94	13	110.5625	4.2457	0	
72	N95	6.75	110.5625	15.071	0	
73	N75	-1.9103	1	15.071	0	
74	N76	15.4103	1	15.071	0	
75	N75A	-1.9103	111.5625	15.071	0	
76	N76A	15.4103	111.5625	15.071	0	
77	N77	-1.9103	-0.	-4.320833	0	
78	N78	-1.9103	110.5625	-4.320833	0	
79	N79	6.75	0	2.6181	0	

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribut...	Area(Me...	Surface(Plate/Wall)
1	Self Weight	DL		-1		8				
2	Wind Z	WLZ				6		64		
3	Wind X	WLX				6		85		
4	Appurtenance Ice ...	OL1		-1		8				
5	Wind Ice Z	OL2				6		64		
6	Wind Ice X	OL3				6		85		



Load Combinations

	Description	Solve P...	SR...	BLCFa...	BLC	Fa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...
1	D	Yes	Y	DL	1									
2	D + W (Z)	Yes	Y	DL	1	WLZ	1							
3	D + W (-Z)	Yes	Y	DL	1	WLZ	-1							
4	D + W (X)	Yes	Y	DL	1	WLX	1							
5	D + W (-X)	Yes	Y	DL	1	WLX	-1							
6	D + W Ice (Z)	Yes	Y	OL1	1	OL2	.75							
7	D + W Ice (-Z)	Yes	Y	OL1	1	OL2	-.75							
8	D + W Ice (X)	Yes	Y	OL1	1	OL3	.75							
9	D + W Ice (-X)	Yes	Y	OL1	1	OL3	-.75							

Joint Loads and Enforced Displacements (BLC 1 : Self Weight)

	Joint Label	L,D,M	Direction	Magnitude[(lb,k-ft), (in,rad), (lb*s^2/ft, lb*s^2*ft)]
1	N40	L	Y	-2592.66
2	N93	L	Y	-274.9
3	N94	L	Y	-274.9
4	N95	L	Y	-274.9
5	N31	L	Y	-3032.93
6	N67	L	Y	-647.833
7	N68	L	Y	-647.833
8	N69	L	Y	-647.833

Joint Loads and Enforced Displacements (BLC 2 : Wind Z)

	Joint Label	L,D,M	Direction	Magnitude[(lb,k-ft), (in,rad), (lb*s^2/ft, lb*s^2*ft)]
1	N95	L	Z	-229.7
2	N94	L	Z	-187
3	N93	L	Z	-187
4	N67	L	Z	-705.1
5	N68	L	Z	-595.8
6	N69	L	Z	-595.8

Joint Loads and Enforced Displacements (BLC 3 : Wind X)

	Joint Label	L,D,M	Direction	Magnitude[(lb,k-ft), (in,rad), (lb*s^2/ft, lb*s^2*ft)]
1	N95	L	X	-176.9
2	N94	L	X	-220
3	N93	L	X	-220
4	N67	L	X	-600.8
5	N68	L	X	-698.7
6	N69	L	X	-698.7

Joint Loads and Enforced Displacements (BLC 4 : Appurtenance Ice Dead)

	Joint Label	L,D,M	Direction	Magnitude[(lb,k-ft), (in,rad), (lb*s^2/ft, lb*s^2*ft)]
1	N40	L	Y	-2042.86
2	N95	L	Y	-545.3
3	N94	L	Y	-545.3
4	N93	L	Y	-545.3
5	N31	L	Y	-3032.93
6	N67	L	Y	-2087.3
7	N68	L	Y	-2087.3
8	N69	L	Y	2087.3

Joint Loads and Enforced Displacements (BLC 5 : Wind Ice Z)

	Joint Label	L,D,M	Direction	Magnitude[(lb,k-ft), (in,rad), (lb*s^2/ft, lb*s^2*ft)]
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Joint Loads and Enforced Displacements (BLC 5 : Wind Ice Z) (Continued)

	Joint Label	L,D,M	Direction	Magnitude[(lb,k-ft), (in,rad), (lb*s^2/ft, lb*s^2*ft)]
1	N95	L	Z	-79.4
2	N94	L	Z	-91.7
3	N93	L	Z	-91.7
4	N67	L	Z	-236.1
5	N68	L	Z	-290.4
6	N69	L	Z	-290.4

Joint Loads and Enforced Displacements (BLC 6 : Wind Ice X)

	Joint Label	L,D,M	Direction	Magnitude[(lb,k-ft), (in,rad), (lb*s^2/ft, lb*s^2*ft)]
1	N95	L	X	-98.8
2	N94	L	X	-86.1
3	N93	L	X	-86.1
4	N67	L	X	-336.4
5	N68	L	X	-265.4
6	N69	L	X	-265.4

Member Area Loads

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[psf]
No Data to Print ...						

Member AISC 13th(360-05): ASD Steel Code Checks

LC	Member	Shape	UC Max	Loc[ft]	Shear ...	Loc[ft]	Dir	Pnc/om...	Pnt/om ...	Mnyy/o...	Mnzz/o...	Cb	Eqn	
1	1	M1	W24x68 w...	.013	0	.000	19	y	1.1562...	1.5522...	375.833	1400.4...	1.058	H1-1b*
2	1	M2	W24x68 w...	.011	0	.000	19	y	1.1562...	1.5522...	375.833	1420.0...	1.078	H1-1b*
3	1	M3	W24x68	.036	0	.001	59.08	y	328006...	601796...	61.128	337.623	1	H1-1b*
4	1	M4	W24x68	.026	0	.001	59.08	y	328006...	601796...	61.128	337.623	1	H1-1b*
5	1	M5	HSS18x0...	.034	0	.000	18.622		457542...	536526...	249.75	249.75	1.958	H1-1b*
6	1	M6	HSS18x0...	.028	0	.000	0		463151...	536526...	249.75	249.75	1.111	H1-1b*
7	1	M7	HSS18x0...	.022	0	.000	3.263		459324...	536526...	249.75	249.75	2.092	H1-1b*
8	1	M8	HSS18x0...	.013	0	.000	0		473500...	536526...	249.75	249.75	1.667	H1-1b*
9	1	M29	L5x5x6	.067	6.822	.003	0	y	19897...	78682...	4.935	8.139	1.136	H2-1
10	1	M30	L5x5x6	.067	6.822	.003	0	z	19897...	78682...	4.935	8.139	1.136	H2-1
11	1	M31	L5x5x6	.068	6.822	.003	0	y	19897...	78682...	4.935	8.139	1.136	H2-1
12	1	M32	L5x5x6	.068	6.822	.003	0	z	19897...	78682...	4.935	8.139	1.136	H2-1
13	1	M33	L5x5x6	.070	6.822	.003	0	y	19897...	78682...	4.935	8.139	1.136	H2-1
14	1	M34	L5x5x6	.070	6.822	.003	0	z	19897...	78682...	4.935	8.139	1.136	H2-1
15	1	M35	L5x5x6	.068	6.822	.003	0	y	19897...	78682...	4.935	8.139	1.136	H2-1
16	1	M36	L5x5x6	.068	6.822	.003	0	z	19897...	78682...	4.935	8.139	1.136	H2-1
17	1	M37	L5x5x6	.067	6.822	.003	0	y	19897...	78682...	4.935	8.139	1.136	H2-1
18	1	M38	L5x5x6	.067	6.822	.004	0	z	19897...	78682...	4.935	8.139	1.136	H2-1
19	1	M39	L5x5x6	.076	7.613	.003	0	y	49600.6	78682...	4.935	7.829	1.136	H2-1
20	1	M40	L5x5x6	.076	7.613	.003	0	y	49600.6	78682...	4.935	7.829	1.136	H2-1
21	1	M41	L5x5x6	.075	7.613	.003	0	y	15976...	78682...	4.935	7.829	1.136	H2-1
22	1	M42	L5x5x6	.075	7.613	.003	0	y	49600.6	78682...	4.935	7.829	1.136	H2-1
23	1	M43	L3.5x3.5x5	.186	9.699	.003	0	y	10481...	45269...	1.918	2.577	1.136	H2-1
24	1	M44	L3.5x3.5x5	.186	9.699	.003	0	y	10481...	45269...	1.918	2.577	1.136	H2-1
25	1	M45	L5x5x3/8 ...	.272	15.848	.005	32.37	y	20518...	113307...	7.087	5.185	1.136	H2-1
26	1	M46	L5x5x3/8 ...	.272	15.848	.005	32.37	y	20518...	113307...	7.087	5.185	1.136	H2-1
27	1	M47	WT6x15	.032	6.333	.004	12.666	y	51096...	94850...	8.587	7.919	1.136	H1-1b
28	1	M48	WT6x15	.039	0	.004	0	y	51096...	94850...	8.587	4.949	2.56	H1-1b
29	1	M49	WT6x15	.030	6.048	.004	12.096	y	53179...	94850...	8.587	7.919	1.136	H1-1b
30	1	M50	WT6x15	.030	6.048	.004	12.096	y	53179...	94850...	8.587	7.919	1.136	H1-1b
31	1	M51	WT6x15	.032	6.393	.004	12.787	y	50651...	94850...	8.587	7.919	1.136	H1-1b



Member AISC 13th(360-05): ASD Steel Code Checks (Continued)

LC	Member	Shape	UC Max	Loc(ft)	Shear	Loc(ft)	Dir	Pnc/om	Pnt/om	Mnvy/o	Mnzz/o	Cb	Eqn	
32	1	M52	WT6x15	.032	6.393	.004	12.787	y	50651...	94850...	8.587	7.919	1.136	H1-1b
33	1	M53	WT6x15	.030	6.005	.004	0	y	53489...	94850...	8.587	7.919	1.136	H1-1b
34	1	M54	WT6x15	.030	6.005	.004	12.011	y	53489...	94850...	8.587	7.919	1.136	H1-1b
35	1	M55	WT6x15	.032	6.443	.004	0	y	50288...	94850...	8.587	7.919	1.136	H1-1b
36	1	M56	WT6x15	.032	6.443	.004	0	y	50288...	94850...	8.587	7.919	1.136	H1-1b
37	1	M57	WT6x15	.030	6.07	.004	12.139	y	53022...	94850...	8.587	7.919	1.136	H1-1b
38	1	M58	WT6x15	.030	6.07	.004	0	y	53022...	94850...	8.587	7.919	1.136	H1-1b
39	1	M59	WT6x15	.032	6.369	.004	12.738	y	50830...	94850...	8.587	7.919	1.136	H1-1b
40	1	M60	WT6x15	.032	6.369	.004	0	y	50830...	94850...	8.587	7.919	1.136	H1-1b
41	1	M61	WT6x15	.031	6.07	.004	12.139	y	53022...	94850...	8.587	7.919	1.136	H1-1b
42	1	M62	WT6x15	.031	6.07	.004	0	y	53022...	94850...	8.587	7.919	1.136	H1-1b
43	1	M63	WT6x15	.032	6.369	.004	12.738	y	50830...	94850...	8.587	7.919	1.136	H1-1b
44	1	M64	WT6x15	.032	6.369	.004	12.738	y	50830...	94850...	8.587	7.919	1.136	H1-1b
45	1	M65	WT6x15	.030	5.741	.004	11.482	y	55390...	94850...	8.587	7.919	1.136	H1-1b
46	1	M66	WT6x15	.030	5.741	.004	0	y	55390...	94850...	8.587	7.919	1.136	H1-1b
47	1	M71	HSS8x4x4	.011	13.5	.003	13.5	y	68324...	112958...	14.731	23.892	2.381	H1-1b
48	1	M72	HSS8x4x4	.011	0	.003	0	y	68324...	112958...	14.731	23.892	2.381	H1-1b
49	1	M75	HSS6x4x4	.026	0	.004	0	y	35045...	92694...	11.587	15.323	2.381	H1-1b
50	1	M76	HSS6x4x4	.026	18.182	.004	18.182	y	35045...	92694...	11.587	15.323	2.381	H1-1b
51	1	M77	HSS6x4x4	.024	17.321	.004	17.321	y	38408...	92694...	11.587	15.323	2.381	H1-1b
52	1	M76A	L4x4x5/16...	.014	7.571	.001	7.571	y	39908...	81697...	3.706	6.632	1.979	H2-1
53	1	M77A	L4x4x5/16...	.014	0	.001	7.571	y	39908...	81697...	3.706	6.632	2.156	H2-1
54	1	M78	L4x4x5/16...	.099	14.72	.003	14.72	y	11074...	81697...	3.706	6.632	2.448	H2-1
55	1	M79	L4x4x5/16...	.089	14.72	.003	14.72	y	11074...	81697...	3.706	6.632	2.459	H2-1
56	1	M84	PIPE 3.0	.117	12.5	.003	12.5		18796...	43383...	3.825	3.825	1.264	H1-1b
57	1	M85	PIPE 3.0	.117	0	.003	0		18796...	43383...	3.825	3.825	1.264	H1-1b
58	1	M86	PIPE 3.0	.117	0	.003	0		18796...	43383...	3.825	3.825	1.264	H1-1b
59	1	M87	HSS4x0.2...	.351	0	.024	0		47654...	59497...	5.946	5.946	2.194	H1-1b
60	1	M88	HSS4x0.2...	.351	0	.024	0		47654...	59497...	5.946	5.946	2.194	H1-1b
61	1	M89	HSS4x0.2...	.351	0	.024	0		47654...	59497...	5.946	5.946	2.194	H1-1b
62	2	M1	W24x68 w...	.142	0	.039	0	y	1.1562...	1.5522...	375.833	1420.0...	1.952	H1-1b
63	2	M2	W24x68 w...	.143	0	.040	3.958	y	1.1562...	1.5522...	375.833	1420.0...	1.947	H1-1b
64	2	M3	W24x68	.173	0	.011	0	y	328006...	601796...	61.128	139.723	2.798	H1-1b
65	2	M4	W24x68	.167	0	.012	0	y	328006...	601796...	61.128	141.439	2.833	H1-1b
66	2	M5	HSS18x0...	.136	0	.008	0		457542...	536526...	249.75	249.75	1.456	H1-1b
67	2	M6	HSS18x0...	.070	3.175	.008	17.318		463151...	536526...	249.75	249.75	1.045	H1-1b
68	2	M7	HSS18x0...	.238	17.206	.032	16.91		459324...	536526...	249.75	249.75	2.114	H1-1b
69	2	M8	HSS18x0...	.146	0	.011	0		473500...	536526...	249.75	249.75	1.668	H1-1b
70	2	M29	L5x5x6	.094	6.822	.004	0	y	19897...	78682...	4.935	8.139	1.136	H2-1
71	2	M30	L5x5x6	.094	6.822	.004	0	z	19897...	78682...	4.935	8.139	1.136	H2-1
72	2	M31	L5x5x6	.082	6.822	.004	0	y	19897...	78682...	4.935	8.139	1.136	H2-1
73	2	M32	L5x5x6	.082	6.822	.004	0	z	19897...	78682...	4.935	8.139	1.136	H2-1
74	2	M33	L5x5x6	.085	6.822	.003	0	y	19897...	78682...	4.935	8.139	1.136	H2-1
75	2	M34	L5x5x6	.085	6.822	.004	0	z	19897...	78682...	4.935	8.139	1.136	H2-1
76	2	M35	L5x5x6	.086	6.822	.004	0	y	19897...	78682...	4.935	8.139	1.136	H2-1
77	2	M36	L5x5x6	.086	6.822	.004	0	z	19897...	78682...	4.935	8.139	1.136	H2-1
78	2	M37	L5x5x6	.087	6.822	.004	0	y	19897...	78682...	4.935	8.139	1.136	H2-1
79	2	M38	L5x5x6	.087	6.822	.004	0	z	19897...	78682...	4.935	8.139	1.136	H2-1
80	2	M39	L5x5x6	.092	7.613	.004	15.226	y	49600.6	78682...	4.935	7.829	1.136	H2-1
81	2	M40	L5x5x6	.060	7.613	.004	0	y	49600.6	78682...	4.935	7.829	1.136	H2-1
82	2	M41	L5x5x6	.090	7.454	.004	15.226	y	15976...	78682...	4.935	7.829	1.136	H2-1
83	2	M42	L5x5x6	.063	7.613	.004	0	y	49600.6	78682...	4.935	7.829	1.136	H2-1
84	2	M43	L3.5x3.5x5	.330	9.699	.005	0	z	10481...	45269...	1.918	2.577	1.136	H2-1
85	2	M44	L3.5x3.5x5	.359	9.699	.005	0	z	10481...	45269...	1.918	2.577	1.136	H2-1
86	2	M45	L5x5x3/8 ...	.443	15.848	.007	0	z	20518...	113307...	7.087	5.185	1.136	H2-1
87	2	M46	L5x5x3/8 ...	.361	15.848	.007	0	z	20518...	113307...	7.087	5.185	1.136	H2-1
88	2	M47	WT6x15	.158	0	.003	0	y	51096...	94850...	8.587	7.919	1.136	H1-1b*



Member AISC 13th(360-05): ASD Steel Code Checks (Continued)

LC	Member	Shape	UC Max	Loc[ft]	Shear ...	Loc[ft]	Dir	Pnc/om...	Pnt/om ...	Mnyy/o...	Mnzz/o...	Cb	Eqn
89	2	M48	WT6x15	.168	0	.005	0	y	51096...	94850...	8.587	4.949	2.308 H1-1b
90	2	M49	WT6x15	.096	6.048	.005	12.096	y	53179...	94850...	8.587	7.919	1.136 H1-1b
91	2	M50	WT6x15	.096	6.048	.005	12.096	y	53179...	94850...	8.587	7.919	1.136 H1-1b
92	2	M51	WT6x15	.239	6.26	.003	0	y	50651...	94850...	8.587	7.919	1.136 H1-1a
93	2	M52	WT6x15	.244	6.26	.002	12.787	y	50651...	94850...	8.587	7.919	1.136 H1-1a
94	2	M53	WT6x15	.099	6.005	.005	12.011	y	53489...	94850...	8.587	7.919	1.136 H1-1b
95	2	M54	WT6x15	.101	6.005	.005	12.011	y	53489...	94850...	8.587	7.919	1.136 H1-1b
96	2	M55	WT6x15	.172	0	.002	12.885	y	50288...	94850...	8.587	7.919	1.136 H1-1b*
97	2	M56	WT6x15	.176	0	.002	12.885	y	50288...	94850...	8.587	7.919	1.136 H1-1b*
98	2	M57	WT6x15	.089	6.07	.005	0	y	53022...	94850...	8.587	7.919	1.136 H1-1b
99	2	M58	WT6x15	.090	6.07	.005	0	y	53022...	94850...	8.587	7.919	1.136 H1-1b
100	2	M59	WT6x15	.105	0	.002	12.738	y	50830...	94850...	8.587	7.919	1.136 H1-1b*
101	2	M60	WT6x15	.109	0	.003	12.738	y	50830...	94850...	8.587	7.919	1.136 H1-1b*
102	2	M61	WT6x15	.102	6.07	.005	0	y	53022...	94850...	8.587	7.919	1.136 H1-1b
103	2	M62	WT6x15	.103	6.07	.005	0	y	53022...	94850...	8.587	7.919	1.136 H1-1b
104	2	M63	WT6x15	.186	0	.004	12.738	y	50830...	94850...	8.587	7.919	1.136 H1-1b*
105	2	M64	WT6x15	.189	0	.004	12.738	y	50830...	94850...	8.587	7.919	1.136 H1-1b*
106	2	M65	WT6x15	.062	5.741	.006	0	y	55390...	94850...	8.587	7.919	1.136 H1-1b
107	2	M66	WT6x15	.063	5.741	.006	0	y	55390...	94850...	8.587	7.919	1.136 H1-1b
108	2	M71	HSS8x4x4	.027	13.5	.005	0	z	68324...	112958...	14.731	23.892	2.381 H1-1b
109	2	M72	HSS8x4x4	.027	0	.005	13.5	z	68324...	112958...	14.731	23.892	2.381 H1-1b
110	2	M75	HSS6x4x4	.033	0	.004	0	y	35045...	92694...	11.587	15.323	2.381 H1-1b
111	2	M76	HSS6x4x4	.033	18.182	.004	18.182	y	35045...	92694...	11.587	15.323	2.381 H1-1b
112	2	M77	HSS6x4x4	.049	17.321	.005	0	z	38408...	92694...	11.587	15.323	2.381 H1-1b
113	2	M76A	L4x4x5/16...	.022	0	.002	0	y	39908...	81697...	3.706	6.632	3 H2-1
114	2	M77A	L4x4x5/16...	.034	0	.002	0	y	39908...	81697...	3.706	6.632	2.727 H2-1
115	2	M78	L4x4x5/16...	.084	14.72	.002	14.72	y	11074...	81697...	3.706	6.632	2.75 H2-1
116	2	M79	L4x4x5/16...	.061	14.72	.002	0	y	11074...	81697...	3.706	6.632	2.286 H2-1
117	2	M84	PIPE 3.0	.119	12.5	.004	12.5		18796...	43383...	3.825	3.825	1.267 H1-1b
118	2	M85	PIPE 3.0	.119	0	.004	0		18796...	43383...	3.825	3.825	1.267 H1-1b
119	2	M86	PIPE 3.0	.125	12.5	.005	12.5		18796...	43383...	3.825	3.825	1.267 H1-1b
120	2	M87	HSS4x0.2...	.349	0	.024	0		47654...	59497...	5.946	5.946	2.195 H1-1b
121	2	M88	HSS4x0.2...	.357	0	.024	0		47654...	59497...	5.946	5.946	2.194 H1-1b
122	2	M89	HSS4x0.2...	.349	0	.024	0		47654...	59497...	5.946	5.946	2.195 H1-1b
123	3	M1	W24x68 w...	.126	0	.039	0	y	1.1562...	1.5522...	375.833	1420.0...	1.905 H1-1b
124	3	M2	W24x68 w...	.129	0	.040	3.76	y	1.1562...	1.5522...	375.833	1420.0...	1.901 H1-1b
125	3	M3	W24x68	.083	2.514	.012	0	y	328006...	601796...	61.128	337.623	1 H1-1b
126	3	M4	W24x68	.087	2.514	.013	0	y	328006...	601796...	61.128	337.623	1 H1-1b
127	3	M5	HSS18x0...	.287	0	.008	0		457542...	536526...	249.75	249.75	2.105 H1-1a
128	3	M6	HSS18x0...	.177	0	.008	17.318		463151...	536526...	249.75	249.75	1.405 H1-1b*
129	3	M7	HSS18x0...	.255	16.91	.032	16.91		459324...	536526...	249.75	249.75	2.069 H1-1b
130	3	M8	HSS18x0...	.146	0	.011	0		473500...	536526...	249.75	249.75	1.665 H1-1b
131	3	M29	L5x5x6	.111	6.822	.004	0	y	19897...	78682...	4.935	8.139	1.136 H2-1
132	3	M30	L5x5x6	.111	6.822	.004	0	z	19897...	78682...	4.935	8.139	1.136 H2-1
133	3	M31	L5x5x6	.054	6.822	.004	0	y	19897...	78682...	4.935	8.139	1.136 H2-1
134	3	M32	L5x5x6	.054	6.822	.004	0	z	19897...	78682...	4.935	8.139	1.136 H2-1
135	3	M33	L5x5x6	.054	6.822	.003	0	y	19897...	78682...	4.935	8.139	1.136 H2-1
136	3	M34	L5x5x6	.054	6.822	.004	0	z	19897...	78682...	4.935	8.139	1.136 H2-1
137	3	M35	L5x5x6	.055	6.822	.004	0	y	19897...	78682...	4.935	8.139	1.136 H2-1
138	3	M36	L5x5x6	.055	6.822	.003	0	z	19897...	78682...	4.935	8.139	1.136 H2-1
139	3	M37	L5x5x6	.057	6.822	.004	0	y	19897...	78682...	4.935	8.139	1.136 H2-1
140	3	M38	L5x5x6	.058	6.822	.004	0	z	19897...	78682...	4.935	8.139	1.136 H2-1
141	3	M39	L5x5x6	.066	7.613	.004	0	y	49600.6	78682...	4.935	7.829	1.136 H2-1
142	3	M40	L5x5x6	.093	7.613	.004	0	y	49600.6	78682...	4.935	7.829	1.136 H2-1
143	3	M41	L5x5x6	.060	7.613	.004	15.226	y	15976...	78682...	4.935	7.829	1.136 H2-1
144	3	M42	L5x5x6	.092	7.613	.004	15.226	y	49600.6	78682...	4.935	7.829	1.136 H2-1
145	3	M43	L3.5x3.5x5	.254	9.906	.005	0	z	10481...	45269...	1.918	2.577	1.136 H2-1



Member AISC 13th(360-05): ASD Steel Code Checks (Continued)

LC	Member	Shape	UC Max	Loc[ft]	Shear ...	Loc[ft]	Dir	Pnc/om...	Pnt/om ...	Mnyv/o...	Mnzz/o...	Cb	Eqn
146	3	M44	L3.5x3.5x5	.205	9.906	.005	0	z	10481....	45269....	1.918	2.577	1.136 H2-1
147	3	M45	L5x5x3/8 ...	.269	16.185	.007	0	z	20518....	113307...	7.087	5.185	1.136 H2-1
148	3	M46	L5x5x3/8 ...	.339	16.185	.007	0	z	20518....	113307...	7.087	5.185	1.136 H2-1
149	3	M47	WT6x15	.099	6.333	.006	12.666	y	51096....	94850....	8.587	7.919	1.136 H1-1b
150	3	M48	WT6x15	.139	12.666	.008	12.666	y	51096....	94850....	8.587	4.949	2.592 H1-1b
151	3	M49	WT6x15	.149	0	.003	12.096	y	53179....	94850....	8.587	7.919	1.136 H1-1b*
152	3	M50	WT6x15	.150	0	.003	12.096	y	53179....	94850....	8.587	7.919	1.136 H1-1b*
153	3	M51	WT6x15	.115	6.393	.005	0	y	50651....	94850....	8.587	7.919	1.136 H1-1b
154	3	M52	WT6x15	.116	6.393	.005	0	y	50651....	94850....	8.587	7.919	1.136 H1-1b
155	3	M53	WT6x15	.167	0	.003	12.011	y	53489....	94850....	8.587	7.919	1.136 H1-1b*
156	3	M54	WT6x15	.172	0	.003	0	y	53489....	94850....	8.587	7.919	1.136 H1-1b*
157	3	M55	WT6x15	.106	6.443	.005	0	y	50288....	94850....	8.587	7.919	1.136 H1-1b
158	3	M56	WT6x15	.107	6.443	.005	0	y	50288....	94850....	8.587	7.919	1.136 H1-1b
159	3	M57	WT6x15	.127	0	.003	12.139	y	53022....	94850....	8.587	7.919	1.136 H1-1b*
160	3	M58	WT6x15	.131	0	.003	12.139	y	53022....	94850....	8.587	7.919	1.136 H1-1b*
161	3	M59	WT6x15	.089	6.369	.005	0	y	50830....	94850....	8.587	7.919	1.136 H1-1b
162	3	M60	WT6x15	.090	6.369	.005	0	y	50830....	94850....	8.587	7.919	1.136 H1-1b
163	3	M61	WT6x15	.177	0	.003	12.139	y	53022....	94850....	8.587	7.919	1.136 H1-1b*
164	3	M62	WT6x15	.181	0	.003	12.139	y	53022....	94850....	8.587	7.919	1.136 H1-1b*
165	3	M63	WT6x15	.111	6.369	.007	0	y	50830....	94850....	8.587	7.919	1.136 H1-1b
166	3	M64	WT6x15	.112	6.369	.007	0	y	50830....	94850....	8.587	7.919	1.136 H1-1b
167	3	M65	WT6x15	.062	5.741	.004	11.482	y	55390....	94850....	8.587	7.919	1.136 H1-1b
168	3	M66	WT6x15	.064	5.741	.005	0	y	55390....	94850....	8.587	7.919	1.136 H1-1b
169	3	M71	HSS8x4x4	.027	0	.005	0	z	68324....	112958..	14.731	23.892	2.381 H1-1b
170	3	M72	HSS8x4x4	.027	13.5	.005	13.5	z	68324....	112958..	14.731	23.892	2.381 H1-1b
171	3	M75	HSS6x4x4	.033	18.182	.004	0	y	35045....	92694....	11.587	15.323	2.381 H1-1b
172	3	M76	HSS6x4x4	.033	0	.004	18.182	y	35045....	92694....	11.587	15.323	2.381 H1-1b
173	3	M77	HSS6x4x4	.049	0	.005	0	z	38408....	92694....	11.587	15.323	2.381 H1-1b
174	3	M76A	L4x4x5/16...	.014	7.571	.001	7.571	y	39908....	81697....	3.706	6.632	1.693 H2-1
175	3	M77A	L4x4x5/16...	.007	7.571	.001	7.571	z	39908....	81697....	3.706	6.632	2.067 H2-1
176	3	M78	L4x4x5/16...	.114	14.72	.003	14.72	y	11074....	81697....	3.706	6.632	2.377 H2-1
177	3	M79	L4x4x5/16...	.117	14.72	.003	14.72	y	11074....	81697....	3.706	6.632	2.889 H2-1
178	3	M84	PIPE 3.0	.121	12.5	.004	12.5		18796....	43383....	3.825	3.825	1.269 H1-1b
179	3	M85	PIPE 3.0	.121	0	.004	0		18796....	43383....	3.825	3.825	1.269 H1-1b
180	3	M86	PIPE 3.0	.122	0	.005	0		18796....	43383....	3.825	3.825	1.265 H1-1b
181	3	M87	HSS4x0.2...	.353	0	.025	0		47654....	59497....	5.946	5.946	2.194 H1-1b
182	3	M88	HSS4x0.2...	.349	0	.024	0		47654....	59497....	5.946	5.946	2.196 H1-1b
183	3	M89	HSS4x0.2...	.353	0	.025	0		47654....	59497....	5.946	5.946	2.194 H1-1b
184	4	M1	W24x68 w...	.151	0	.021	19	y	1.1562...	1.5522...	375.833	1420.0...	1.172 H1-1b
185	4	M2	W24x68 w...	.136	0	.020	19	y	1.1562...	1.5522...	375.833	1420.0...	1.185 H1-1b
186	4	M3	W24x68	.183	5.028	.025	1.886	y	328006..	601796..	61.128	149.801	3 H1-1b
187	4	M4	W24x68	.111	0	.024	1.886	y	328006..	601796..	61.128	148.603	2.976 H1-1b
188	4	M5	HSS18x0....	.110	0	.015	0		457542..	536526..	249.75	249.75	2.289 H1-1b
189	4	M6	HSS18x0....	.028	0	.010	3.175		463151..	536526..	249.75	249.75	2.192 H1-1b*
190	4	M7	HSS18x0....	.039	16.91	.008	16.91		459324..	536526..	249.75	249.75	1.698 H1-1b
191	4	M8	HSS18x0....	.014	12.771	.005	0		473500..	536526..	249.75	249.75	1.164 H1-1b
192	4	M29	L5x5x6	.067	6.822	.005	0	y	19897....	78682....	4.935	8.139	1.136 H2-1
193	4	M30	L5x5x6	.068	6.822	.005	0	z	19897....	78682....	4.935	8.139	1.136 H2-1
194	4	M31	L5x5x6	.068	6.822	.004	0	y	19897....	78682....	4.935	8.139	1.136 H2-1
195	4	M32	L5x5x6	.068	6.822	.004	0	z	19897....	78682....	4.935	8.139	1.136 H2-1
196	4	M33	L5x5x6	.070	6.822	.004	0	y	19897....	78682....	4.935	8.139	1.136 H2-1
197	4	M34	L5x5x6	.070	6.822	.004	0	z	19897....	78682....	4.935	8.139	1.136 H2-1
198	4	M35	L5x5x6	.068	6.822	.004	0	y	19897....	78682....	4.935	8.139	1.136 H2-1
199	4	M36	L5x5x6	.068	6.822	.004	0	z	19897....	78682....	4.935	8.139	1.136 H2-1
200	4	M37	L5x5x6	.067	6.822	.004	0	y	19897....	78682....	4.935	8.139	1.136 H2-1
201	4	M38	L5x5x6	.068	6.822	.004	0	z	19897....	78682....	4.935	8.139	1.136 H2-1
202	4	M39	L5x5x6	.122	7.613	.005	0	y	49600.6	78682....	4.935	7.829	1.136 H2-1



Member AISC 13th(360-05): ASD Steel Code Checks (Continued)

LC	Member	Shape	UC Max	Loc[ft]	Shear ...	Loc[ft]	Dir	Pnc/om...	Pnt/om ...	Mny/o...	Mnzz/o...	Cb	Eqn
203	4	M40	L5x5x6	.120	7.454	.003	15.226	y	49600.6	78682....	4.935	7.829	1.136 H2-1
204	4	M41	L5x5x6	.138	7.613	.004	0	y	15976....	78682....	4.935	7.829	1.136 H2-1
205	4	M42	L5x5x6	.142	7.454	.003	15.226	y	49600.6	78682....	4.935	7.829	1.136 H2-1
206	4	M43	L3.5x3.5x5	.323	9.08	.001	19.812	y	10481....	45269....	1.918	2.577	1.136 H2-1
207	4	M44	L3.5x3.5x5	.306	9.906	.006	19.812	y	10481....	45269....	1.918	2.577	1.136 H2-1
208	4	M45	L5x5x3/8 ...	.096	0	.000	32.37	y	20518....	113307...	7.087	5.185	1.136 H2-1
209	4	M46	L5x5x3/8 ...	.457	15.848	.010	32.37	y	20518....	113307...	7.087	5.185	1.136 H2-1
210	4	M47	WT6x15	.168	0	.004	0	y	51096....	94850....	8.587	7.919	1.136 H1-1b*
211	4	M48	WT6x15	.211	12.666	.010	12.666	y	51096....	94850....	8.587	4.949	2.152 H1-1b
212	4	M49	WT6x15	.106	6.048	.006	12.096	y	53179....	94850....	8.587	7.919	1.136 H1-1b
213	4	M50	WT6x15	.181	0	.004	12.096	y	53179....	94850....	8.587	7.919	1.136 H1-1b*
214	4	M51	WT6x15	.062	6.26	.004	0	y	50651....	94850....	8.587	7.919	1.136 H1-1b
215	4	M52	WT6x15	.071	6.393	.006	0	y	50651....	94850....	8.587	7.919	1.136 H1-1b
216	4	M53	WT6x15	.057	6.005	.005	12.011	y	53489....	94850....	8.587	7.919	1.136 H1-1b
217	4	M54	WT6x15	.043	6.005	.004	12.011	y	53489....	94850....	8.587	7.919	1.136 H1-1b
218	4	M55	WT6x15	.064	6.308	.004	12.885	y	50288....	94850....	8.587	7.919	1.136 H1-1b
219	4	M56	WT6x15	.073	6.443	.007	0	y	50288....	94850....	8.587	7.919	1.136 H1-1b
220	4	M57	WT6x15	.062	6.07	.006	0	y	53022....	94850....	8.587	7.919	1.136 H1-1b
221	4	M58	WT6x15	.051	6.07	.004	12.139	y	53022....	94850....	8.587	7.919	1.136 H1-1b
222	4	M59	WT6x15	.059	6.236	.004	12.738	y	50830....	94850....	8.587	7.919	1.136 H1-1b
223	4	M60	WT6x15	.071	6.369	.007	0	y	50830....	94850....	8.587	7.919	1.136 H1-1b
224	4	M61	WT6x15	.065	6.07	.006	0	y	53022....	94850....	8.587	7.919	1.136 H1-1b
225	4	M62	WT6x15	.059	6.07	.004	12.139	y	53022....	94850....	8.587	7.919	1.136 H1-1b
226	4	M63	WT6x15	.047	6.236	.004	12.738	y	50830....	94850....	8.587	7.919	1.136 H1-1b
227	4	M64	WT6x15	.066	6.369	.006	0	y	50830....	94850....	8.587	7.919	1.136 H1-1b
228	4	M65	WT6x15	.057	5.741	.006	0	y	55390....	94850....	8.587	7.919	1.136 H1-1b
229	4	M66	WT6x15	.040	5.741	.005	11.482	y	55390....	94850....	8.587	7.919	1.136 H1-1b
230	4	M71	HSS8x4x4	.011	0	.003	0	y	68324....	112958..	14.731	23.892	2.381 H1-1b
231	4	M72	HSS8x4x4	.011	13.5	.003	13.5	y	68324....	112958..	14.731	23.892	2.381 H1-1b
232	4	M75	HSS6x4x4	.046	0	.004	18.182	y	35045....	92694....	11.587	15.323	2.381 H1-1b
233	4	M76	HSS6x4x4	.046	0	.004	18.182	y	35045....	92694....	11.587	15.323	2.381 H1-1b
234	4	M77	HSS6x4x4	.024	0	.004	0	y	38408....	92694....	11.587	15.323	2.381 H1-1b
235	4	M76A	L4x4x5/16..	.017	7.571	.001	7.571	z	39908....	81697....	3.706	6.632	3 H2-1
236	4	M77A	L4x4x5/16..	.018	7.571	.001	7.571	y	39908....	81697....	3.706	6.632	3 H2-1
237	4	M78	L4x4x5/16..	.048	0	.003	0	y	11074....	81697....	3.706	6.632	2.415 H2-1
238	4	M79	L4x4x5/16..	.124	14.72	.003	0	y	11074....	81697....	3.706	6.632	2.452 H2-1
239	4	M84	PIPE 3.0	.122	12.5	.004	12.5		18796....	43383....	3.825	3.825	1.265 H1-1b
240	4	M85	PIPE 3.0	.120	0	.004	0		18796....	43383....	3.825	3.825	1.264 H1-1b
241	4	M86	PIPE 3.0	.118	0	.004	0		18796....	43383....	3.825	3.825	1.265 H1-1b
242	4	M87	HSS4x0.2...	.357	0	.024	0		47654....	59497....	5.946	5.946	2.194 H1-1b
243	4	M88	HSS4x0.2...	.354	0	.025	0		47654....	59497....	5.946	5.946	2.194 H1-1b
244	4	M89	HSS4x0.2...	.353	0	.024	0		47654....	59497....	5.946	5.946	2.195 H1-1b
245	5	M1	W24x68 w...	.133	0	.020	19	y	1.1562...	1.5522...	375.833	1420.0...	1.184 H1-1b
246	5	M2	W24x68 w...	.152	0	.021	19	y	1.1562...	1.5522...	375.833	1420.0...	1.174 H1-1b
247	5	M3	W24x68	.110	0	.024	1.886	y	328006..	601796..	61.128	148.62	2.976 H1-1b
248	5	M4	W24x68	.178	5.028	.025	1.886	y	328006..	601796..	61.128	149.801	3 H1-1b
249	5	M5	HSS18x0....	.109	0	.015	0		457542..	536526..	249.75	249.75	2.277 H1-1b
250	5	M6	HSS18x0....	.028	0	.010	3.175		463151..	536526..	249.75	249.75	2.478 H1-1b*
251	5	M7	HSS18x0....	.039	16.91	.008	16.91		459324..	536526..	249.75	249.75	1.715 H1-1b
252	5	M8	HSS18x0....	.014	12.771	.005	0		473500..	536526..	249.75	249.75	1.163 H1-1b
253	5	M29	L5x5x6	.067	6.822	.005	0	y	19897....	78682....	4.935	8.139	1.136 H2-1
254	5	M30	L5x5x6	.066	6.822	.005	0	z	19897....	78682....	4.935	8.139	1.136 H2-1
255	5	M31	L5x5x6	.068	6.822	.004	0	y	19897....	78682....	4.935	8.139	1.136 H2-1
256	5	M32	L5x5x6	.068	6.822	.004	0	z	19897....	78682....	4.935	8.139	1.136 H2-1
257	5	M33	L5x5x6	.070	6.822	.004	0	y	19897....	78682....	4.935	8.139	1.136 H2-1
258	5	M34	L5x5x6	.070	6.822	.004	0	z	19897....	78682....	4.935	8.139	1.136 H2-1
259	5	M35	L5x5x6	.068	6.822	.004	0	y	19897....	78682....	4.935	8.139	1.136 H2-1



Member AISC 13th(360-05): ASD Steel Code Checks (Continued)

LC	Member	Shape	UC Max	Loc[ft]	Shear ...	Loc[ft]	Dir	Pnc/om...	Pnt/om...	Mnvy/o...	Mnzz/o...	Cb	Eqn	
260	5	M36	L5x5x6	.068	6.822	.004	0	z	19897...	78682....	4.935	8.139	1.136	H2-1
261	5	M37	L5x5x6	.068	6.822	.004	0	y	19897...	78682....	4.935	8.139	1.136	H2-1
262	5	M38	L5x5x6	.067	6.822	.004	0	z	19897...	78682....	4.935	8.139	1.136	H2-1
263	5	M39	L5x5x6	.120	7.454	.004	15.226	y	49600.6	78682....	4.935	7.829	1.136	H2-1
264	5	M40	L5x5x6	.122	7.613	.004	0	y	49600.6	78682....	4.935	7.829	1.136	H2-1
265	5	M41	L5x5x6	.311	7.296	.003	15.226	y	15976...	78682....	4.935	7.829	1.136	H2-1
266	5	M42	L5x5x6	.138	7.613	.004	0	y	49600.6	78682....	4.935	7.829	1.136	H2-1
267	5	M43	L3.5x3.5x5	.305	9.906	.006	19.812	y	10481....	45269....	1.918	2.577	1.136	H2-1
268	5	M44	L3.5x3.5x5	.322	9.08	.001	0	y	10481....	45269....	1.918	2.577	1.136	H2-1
269	5	M45	L5x5x3/8 ...	.457	15.848	.010	0	y	20518....	113307...	7.087	5.185	1.136	H2-1
270	5	M46	L5x5x3/8 ...	.096	0	.000	0	y	20518....	113307...	7.087	5.185	1.136	H2-1
271	5	M47	WT6x15	.103	6.333	.006	0	y	51096...	94850....	8.587	7.919	1.136	H1-1b
272	5	M48	WT6x15	.235	0	.008	0	y	51096...	94850....	8.587	4.949	2.622	H1-1b
273	5	M49	WT6x15	.181	0	.004	0	y	53179...	94850....	8.587	7.919	1.136	H1-1b*
274	5	M50	WT6x15	.106	6.048	.006	0	y	53179...	94850....	8.587	7.919	1.136	H1-1b
275	5	M51	WT6x15	.072	6.393	.006	12.787	y	50651...	94850....	8.587	7.919	1.136	H1-1b
276	5	M52	WT6x15	.062	6.26	.004	0	y	50651...	94850....	8.587	7.919	1.136	H1-1b
277	5	M53	WT6x15	.043	6.005	.004	0	y	53489...	94850....	8.587	7.919	1.136	H1-1b
278	5	M54	WT6x15	.057	6.005	.006	12.011	y	53489...	94850....	8.587	7.919	1.136	H1-1b
279	5	M55	WT6x15	.073	6.443	.007	0	y	50288...	94850....	8.587	7.919	1.136	H1-1b
280	5	M56	WT6x15	.064	6.308	.004	12.885	y	50288...	94850....	8.587	7.919	1.136	H1-1b
281	5	M57	WT6x15	.051	6.07	.004	12.139	y	53022...	94850....	8.587	7.919	1.136	H1-1b
282	5	M58	WT6x15	.062	6.07	.006	0	y	53022...	94850....	8.587	7.919	1.136	H1-1b
283	5	M59	WT6x15	.071	6.369	.007	0	y	50830...	94850....	8.587	7.919	1.136	H1-1b
284	5	M60	WT6x15	.059	6.236	.004	12.738	y	50830...	94850....	8.587	7.919	1.136	H1-1b
285	5	M61	WT6x15	.059	6.07	.004	12.139	y	53022...	94850....	8.587	7.919	1.136	H1-1b
286	5	M62	WT6x15	.065	6.07	.006	0	y	53022...	94850....	8.587	7.919	1.136	H1-1b
287	5	M63	WT6x15	.066	6.369	.006	0	y	50830...	94850....	8.587	7.919	1.136	H1-1b
288	5	M64	WT6x15	.047	6.236	.004	12.738	y	50830...	94850....	8.587	7.919	1.136	H1-1b
289	5	M65	WT6x15	.040	5.741	.005	11.482	y	55390...	94850....	8.587	7.919	1.136	H1-1b
290	5	M66	WT6x15	.057	5.741	.006	0	y	55390...	94850....	8.587	7.919	1.136	H1-1b
291	5	M71	HSS8x4x4	.011	13.5	.003	13.5	y	68324...	112958...	14.731	23.892	2.381	H1-1b
292	5	M72	HSS8x4x4	.011	0	.003	0	y	68324...	112958...	14.731	23.892	2.381	H1-1b
293	5	M75	HSS6x4x4	.046	18.182	.004	0	y	35045...	92694....	11.587	15.323	2.381	H1-1b
294	5	M76	HSS6x4x4	.046	18.182	.004	0	y	35045...	92694....	11.587	15.323	2.381	H1-1b
295	5	M77	HSS6x4x4	.024	17.321	.004	17.321	y	38408...	92694....	11.587	15.323	2.381	H1-1b
296	5	M76A	L4x4x5/16...	.022	7.571	.001	7.571	y	39908...	81697....	3.706	6.632	1.078	H2-1
297	5	M77A	L4x4x5/16...	.020	0	.001	0	z	39908...	81697....	3.706	6.632	1.249	H2-1
298	5	M78	L4x4x5/16...	.156	14.72	.003	14.72	y	11074...	81697....	3.706	6.632	2.811	H2-1
299	5	M79	L4x4x5/16...	.069	14.72	.003	14.72	y	11074...	81697....	3.706	6.632	2.722	H2-1
300	5	M84	PIPE 3.0	.120	12.5	.004	12.5	y	18796...	43383....	3.825	3.825	1.264	H1-1b
301	5	M85	PIPE 3.0	.122	0	.004	0	y	18796...	43383....	3.825	3.825	1.265	H1-1b
302	5	M86	PIPE 3.0	.118	12.5	.004	12.5	y	18796...	43383....	3.825	3.825	1.265	H1-1b
303	5	M87	HSS4x0.2...	.353	0	.024	0	y	47654...	59497....	5.946	5.946	2.195	H1-1b
304	5	M88	HSS4x0.2...	.354	0	.025	0	y	47654...	59497....	5.946	5.946	2.194	H1-1b
305	5	M89	HSS4x0.2...	.357	0	.024	0	y	47654...	59497....	5.946	5.946	2.194	H1-1b
306	6	M1	W24x68 w...	.052	0	.013	0	y	1.1562...	1.5522...	375.833	1420.0...	1.935	H1-1b
307	6	M2	W24x68 w...	.050	0	.012	4.354	y	1.1562...	1.5522...	375.833	1420.0...	1.942	H1-1b
308	6	M3	W24x68	.136	55.309	.016	59.08	y	328006...	601796...	61.128	149.801	3	H1-1b
309	6	M4	W24x68	.132	55.309	.015	59.08	y	328006...	601796...	61.128	149.801	3	H1-1b
310	6	M5	HSS18x0...	.038	0	.002	0	y	457542...	536526...	249.75	249.75	1.545	H1-1b
311	6	M6	HSS18x0...	.020	3.175	.002	17.318	y	463151...	536526...	249.75	249.75	1.094	H1-1b
312	6	M7	HSS18x0...	.082	17.206	.010	16.91	y	459324...	536526...	249.75	249.75	2.073	H1-1b
313	6	M8	HSS18x0...	.052	0	.004	0	y	473500...	536526...	249.75	249.75	1.667	H1-1b
314	6	M29	L5x5x6	.075	6.822	.004	0	y	19897...	78682....	4.935	8.139	1.136	H2-1
315	6	M30	L5x5x6	.075	6.822	.004	0	z	19897...	78682....	4.935	8.139	1.136	H2-1
316	6	M31	L5x5x6	.072	6.822	.004	0	y	19897...	78682....	4.935	8.139	1.136	H2-1



Member AISC 13th(360-05): ASD Steel Code Checks (Continued)

LC	Member	Shape	UC Max	Loc[ft]	Shear ...	Loc[ft]	Dir	Pnc/om...	Pnt/om ...	Mny/o...	Mnzz/o...	Cb	Eqn
317	6	M32	L5x5x6	.072	6.822	.004	0	z	19897....	78682....	4.935	8.139	1.136 H2-1
318	6	M33	L5x5x6	.078	6.822	.003	0	y	19897....	78682....	4.935	8.139	1.136 H2-1
319	6	M34	L5x5x6	.078	6.822	.004	0	z	19897....	78682....	4.935	8.139	1.136 H2-1
320	6	M35	L5x5x6	.074	6.822	.004	0	y	19897....	78682....	4.935	8.139	1.136 H2-1
321	6	M36	L5x5x6	.074	6.822	.004	0	z	19897....	78682....	4.935	8.139	1.136 H2-1
322	6	M37	L5x5x6	.093	6.822	.004	0	y	19897....	78682....	4.935	8.139	1.136 H2-1
323	6	M38	L5x5x6	.094	6.822	.004	0	z	19897....	78682....	4.935	8.139	1.136 H2-1
324	6	M39	L5x5x6	.079	7.613	.004	0	y	49600.6	78682....	4.935	7.829	1.136 H2-1
325	6	M40	L5x5x6	.071	7.613	.004	0	y	49600.6	78682....	4.935	7.829	1.136 H2-1
326	6	M41	L5x5x6	.082	7.454	.004	0	y	15976....	78682....	4.935	7.829	1.136 H2-1
327	6	M42	L5x5x6	.070	7.613	.004	0	y	49600.6	78682....	4.935	7.829	1.136 H2-1
328	6	M43	L3.5x3.5x5	.217	9.699	.003	0	y	10481....	45269....	1.918	2.577	1.136 H2-1
329	6	M44	L3.5x3.5x5	.243	9.699	.003	0	y	10481....	45269....	1.918	2.577	1.136 H2-1
330	6	M45	L5x5x3/8 ...	.315	15.848	.005	0	y	20518....	113307...	7.087	5.185	1.136 H2-1
331	6	M46	L5x5x3/8 ...	.291	15.848	.005	32.37	y	20518....	113307...	7.087	5.185	1.136 H2-1
332	6	M47	WT6x15	.058	6.333	.003	12.666	y	51096....	94850....	8.587	7.919	1.136 H1-1b
333	6	M48	WT6x15	.078	0	.004	0	y	51096....	94850....	8.587	4.949	2.508 H1-1b
334	6	M49	WT6x15	.051	6.048	.004	12.096	y	53179....	94850....	8.587	7.919	1.136 H1-1b
335	6	M50	WT6x15	.051	6.048	.004	12.096	y	53179....	94850....	8.587	7.919	1.136 H1-1b
336	6	M51	WT6x15	.069	0	.003	12.787	y	50651....	94850....	8.587	7.919	1.136 H1-1b*
337	6	M52	WT6x15	.067	0	.003	0	y	50651....	94850....	8.587	7.919	1.136 H1-1b*
338	6	M53	WT6x15	.052	6.005	.004	0	y	53489....	94850....	8.587	7.919	1.136 H1-1b
339	6	M54	WT6x15	.052	6.005	.004	0	y	53489....	94850....	8.587	7.919	1.136 H1-1b
340	6	M55	WT6x15	.057	6.308	.003	12.885	y	50288....	94850....	8.587	7.919	1.136 H1-1b
341	6	M56	WT6x15	.056	6.308	.003	12.885	y	50288....	94850....	8.587	7.919	1.136 H1-1b
342	6	M57	WT6x15	.047	6.07	.004	0	y	53022....	94850....	8.587	7.919	1.136 H1-1b
343	6	M58	WT6x15	.047	6.07	.004	0	y	53022....	94850....	8.587	7.919	1.136 H1-1b
344	6	M59	WT6x15	.060	6.369	.003	12.738	y	50830....	94850....	8.587	7.919	1.136 H1-1b
345	6	M60	WT6x15	.059	6.369	.003	12.738	y	50830....	94850....	8.587	7.919	1.136 H1-1b
346	6	M61	WT6x15	.058	6.07	.004	0	y	53022....	94850....	8.587	7.919	1.136 H1-1b
347	6	M62	WT6x15	.058	6.07	.004	0	y	53022....	94850....	8.587	7.919	1.136 H1-1b
348	6	M63	WT6x15	.098	0	.004	12.738	y	50830....	94850....	8.587	7.919	1.136 H1-1b*
349	6	M64	WT6x15	.096	0	.004	12.738	y	50830....	94850....	8.587	7.919	1.136 H1-1b*
350	6	M65	WT6x15	.048	5.741	.004	0	y	55390....	94850....	8.587	7.919	1.136 H1-1b
351	6	M66	WT6x15	.048	5.741	.004	11.482	y	55390....	94850....	8.587	7.919	1.136 H1-1b
352	6	M71	HSS8x4x4	.016	0	.003	0	y	68324....	112958...	14.731	23.892	2.381 H1-1b
353	6	M72	HSS8x4x4	.016	13.5	.003	13.5	y	68324....	112958...	14.731	23.892	2.381 H1-1b
354	6	M75	HSS6x4x4	.028	0	.004	0	y	35045....	92694....	11.587	15.323	2.381 H1-1b
355	6	M76	HSS6x4x4	.028	18.182	.004	18.182	y	35045....	92694....	11.587	15.323	2.381 H1-1b
356	6	M77	HSS6x4x4	.032	0	.004	0	y	38408....	92694....	11.587	15.323	2.381 H1-1b
357	6	M76A	L4x4x5/16...	.093	0	.002	0	y	39908....	81697....	3.706	6.632	2.892 H2-1
358	6	M77A	L4x4x5/16...	.104	0	.002	0	y	39908....	81697....	3.706	6.632	2.71 H2-1
359	6	M78	L4x4x5/16...	.084	0	.003	0	y	11074....	81697....	3.706	6.632	2.202 H2-1
360	6	M79	L4x4x5/16...	.084	0	.003	0	y	11074....	81697....	3.706	6.632	2.25 H2-1
361	6	M84	PIPE 3.0	.192	12.5	.004	12.5		18796....	43383....	3.825	3.825	1.148 H1-1b
362	6	M85	PIPE 3.0	.192	0	.004	0		18796....	43383....	3.825	3.825	1.148 H1-1b
363	6	M86	PIPE 3.0	.193	12.5	.004	12.5		18796....	43383....	3.825	3.825	1.147 H1-1b
364	6	M87	HSS4x0.2...	.596	0	.039	0		47654....	59497....	5.946	5.946	2.173 H1-1b
365	6	M88	HSS4x0.2...	.601	0	.039	0		47654....	59497....	5.946	5.946	2.173 H1-1b
366	6	M89	HSS4x0.2...	.596	0	.039	0		47654....	59497....	5.946	5.946	2.173 H1-1b
367	7	M1	W24x68 w...	.039	0	.013	0	y	1.1562...	1.5522...	375.833	1420.0...	1.909 H1-1b
368	7	M2	W24x68 w...	.038	0	.012	4.552	y	1.1562...	1.5522...	375.833	1420.0...	1.912 H1-1b
369	7	M3	W24x68	.135	54.68	.010	59.08	y	328006...	601796...	61.128	139.116	2.786 H1-1b
370	7	M4	W24x68	.128	54.68	.010	59.08	y	328006...	601796...	61.128	138.952	2.783 H1-1b
371	7	M5	HSS18x0....	.083	0	.003	0		457542...	536526...	249.75	249.75	1.967 H1-1b*
372	7	M6	HSS18x0....	.064	0	.003	17.318		463151...	536526...	249.75	249.75	1.128 H1-1b*
373	7	M7	HSS18x0....	.083	16.91	.011	16.91		459324...	536526...	249.75	249.75	2.093 H1-1b



Member AISC 13th(360-05): ASD Steel Code Checks (Continued)

LC	Member	Shape	UC Max	Loc(ft)	Shear	Loc(ft)	Dir	Pnc/om	Pnt/om	Mnvy/o	Mnzz/o	Cb	Eqn
374	7	M8	HSS18x0...	.052	0	.004	0	473500.	536526...	249.75	249.75	1.666	H1-1b
375	7	M29	L5x5x6	.080	6.822	.004	0	y 19897...	78682...	4.935	8.139	1.136	H2-1
376	7	M30	L5x5x6	.081	6.822	.004	0	z 19897...	78682...	4.935	8.139	1.136	H2-1
377	7	M31	L5x5x6	.063	6.822	.003	0	y 19897...	78682...	4.935	8.139	1.136	H2-1
378	7	M32	L5x5x6	.063	6.822	.004	0	z 19897...	78682...	4.935	8.139	1.136	H2-1
379	7	M33	L5x5x6	.068	6.822	.004	0	y 19897...	78682...	4.935	8.139	1.136	H2-1
380	7	M34	L5x5x6	.068	6.822	.003	0	z 19897...	78682...	4.935	8.139	1.136	H2-1
381	7	M35	L5x5x6	.067	6.822	.004	0	y 19897...	78682...	4.935	8.139	1.136	H2-1
382	7	M36	L5x5x6	.067	6.822	.004	0	z 19897...	78682...	4.935	8.139	1.136	H2-1
383	7	M37	L5x5x6	.078	6.822	.004	0	y 19897...	78682...	4.935	8.139	1.136	H2-1
384	7	M38	L5x5x6	.079	6.822	.004	0	z 19897...	78682...	4.935	8.139	1.136	H2-1
385	7	M39	L5x5x6	.071	7.613	.004	0	y 49600.6	78682...	4.935	7.829	1.136	H2-1
386	7	M40	L5x5x6	.082	7.613	.004	0	y 49600.6	78682...	4.935	7.829	1.136	H2-1
387	7	M41	L5x5x6	.071	7.613	.004	0	y 15976...	78682...	4.935	7.829	1.136	H2-1
388	7	M42	L5x5x6	.079	7.613	.004	15.226	y 49600.6	78682...	4.935	7.829	1.136	H2-1
389	7	M43	L3.5x3.5x5	.181	9.699	.004	0	y 10481...	45269...	1.918	2.577	1.136	H2-1
390	7	M44	L3.5x3.5x5	.155	9.699	.004	0	y 10481...	45269...	1.918	2.577	1.136	H2-1
391	7	M45	L5x5x3/8 ...	.252	15.848	.005	0	y 20518...	113307...	7.087	5.185	1.136	H2-1
392	7	M46	L5x5x3/8 ...	.277	15.848	.005	32.37	y 20518...	113307...	7.087	5.185	1.136	H2-1
393	7	M47	WT6x15	.052	6.333	.004	0	y 51096...	94850...	8.587	7.919	1.136	H1-1b
394	7	M48	WT6x15	.065	12.666	.005	12.666	y 51096...	94850...	8.587	4.949	2.672	H1-1b
395	7	M49	WT6x15	.054	6.048	.003	0	y 53179...	94850...	8.587	7.919	1.136	H1-1b
396	7	M50	WT6x15	.054	6.048	.003	0	y 53179...	94850...	8.587	7.919	1.136	H1-1b
397	7	M51	WT6x15	.058	6.393	.004	12.787	y 50651...	94850...	8.587	7.919	1.136	H1-1b
398	7	M52	WT6x15	.058	6.393	.004	12.787	y 50651...	94850...	8.587	7.919	1.136	H1-1b
399	7	M53	WT6x15	.058	6.005	.003	0	y 53489...	94850...	8.587	7.919	1.136	H1-1b
400	7	M54	WT6x15	.057	6.005	.003	0	y 53489...	94850...	8.587	7.919	1.136	H1-1b
401	7	M55	WT6x15	.057	6.443	.004	0	y 50288...	94850...	8.587	7.919	1.136	H1-1b
402	7	M56	WT6x15	.057	6.443	.004	0	y 50288...	94850...	8.587	7.919	1.136	H1-1b
403	7	M57	WT6x15	.055	6.07	.003	12.139	y 53022...	94850...	8.587	7.919	1.136	H1-1b
404	7	M58	WT6x15	.054	6.07	.003	12.139	y 53022...	94850...	8.587	7.919	1.136	H1-1b
405	7	M59	WT6x15	.044	6.369	.004	0	y 50830...	94850...	8.587	7.919	1.136	H1-1b
406	7	M60	WT6x15	.044	6.369	.004	0	y 50830...	94850...	8.587	7.919	1.136	H1-1b
407	7	M61	WT6x15	.051	6.07	.003	12.139	y 53022...	94850...	8.587	7.919	1.136	H1-1b
408	7	M62	WT6x15	.050	6.07	.004	12.139	y 53022...	94850...	8.587	7.919	1.136	H1-1b
409	7	M63	WT6x15	.047	6.369	.005	0	y 50830...	94850...	8.587	7.919	1.136	H1-1b
410	7	M64	WT6x15	.047	6.369	.005	0	y 50830...	94850...	8.587	7.919	1.136	H1-1b
411	7	M65	WT6x15	.033	5.741	.004	0	y 55390...	94850...	8.587	7.919	1.136	H1-1b
412	7	M66	WT6x15	.034	5.741	.004	0	y 55390...	94850...	8.587	7.919	1.136	H1-1b
413	7	M71	HSS8x4x4	.016	13.5	.003	13.5	y 68324...	112958...	14.731	23.892	2.381	H1-1b
414	7	M72	HSS8x4x4	.016	0	.003	0	y 68324...	112958...	14.731	23.892	2.381	H1-1b
415	7	M75	HSS6x4x4	.028	18.182	.004	0	y 35045...	92694...	11.587	15.323	2.381	H1-1b
416	7	M76	HSS6x4x4	.028	0	.004	18.182	y 35045...	92694...	11.587	15.323	2.381	H1-1b
417	7	M77	HSS6x4x4	.032	17.321	.004	17.321	y 38408...	92694...	11.587	15.323	2.381	H1-1b
418	7	M76A	L4x4x5/16...	.083	0	.001	0	y 39908...	81697...	3.706	6.632	2.509	H2-1
419	7	M77A	L4x4x5/16...	.093	0	.002	0	y 39908...	81697...	3.706	6.632	2.657	H2-1
420	7	M78	L4x4x5/16...	.086	0	.003	0	y 11074...	81697...	3.706	6.632	2.219	H2-1
421	7	M79	L4x4x5/16...	.092	0	.003	0	y 11074...	81697...	3.706	6.632	2.297	H2-1
422	7	M84	PIPE 3.0	.192	12.5	.004	0	18796...	43383...	3.825	3.825	1.148	H1-1b
423	7	M85	PIPE 3.0	.192	0	.004	12.5	18796...	43383...	3.825	3.825	1.148	H1-1b
424	7	M86	PIPE 3.0	.193	0	.004	0	18796...	43383...	3.825	3.825	1.147	H1-1b
425	7	M87	HSS4x0.2...	.599	0	.040	0	47654...	59497...	5.946	5.946	2.173	H1-1b
426	7	M88	HSS4x0.2...	.596	0	.039	0	47654...	59497...	5.946	5.946	2.173	H1-1b
427	7	M89	HSS4x0.2...	.599	0	.040	0	47654...	59497...	5.946	5.946	2.173	H1-1b
428	8	M1	W24x68 w...	.064	0	.008	19	y 1.1562...	1.5522...	375.833	1420.0...	1.184	H1-1b
429	8	M2	W24x68 w...	.053	0	.008	19	y 1.1562...	1.5522...	375.833	1420.0...	1.181	H1-1b
430	8	M3	W24x68	.141	54.68	.013	59.08	y 328006..	601796..	61.128	129.85	2.6	H1-1b



Member AISC 13th(360-05): ASD Steel Code Checks (Continued)

LC	Member	Shape	UC Max	Loc[ft]	Shear ...	Loc[ft]	Dir	Pnc/om...	Pnt/om ...	Mny/o...	Mnz/z/o...	Cb	Eqn	
431	8	M4	W24x68	.131	55.309	.012	59.08	y	328006...	601796...	61.128	149.801	3	H1-1b
432	8	M5	HSS18x0...	.048	0	.005	0		457542...	536526...	249.75	249.75	2.303	H1-1b
433	8	M6	HSS18x0...	.017	0	.003	3.175		463151...	536526...	249.75	249.75	1.773	H1-1b*
434	8	M7	HSS18x0...	.024	17.206	.003	16.91		459324...	536526...	249.75	249.75	1.604	H1-1b
435	8	M8	HSS18x0...	.013	0	.001	0		473500...	536526...	249.75	249.75	2.219	H1-1b*
436	8	M29	L5x5x6	.067	6.822	.004	0	y	19897...	78682...	4.935	8.139	1.136	H2-1
437	8	M30	L5x5x6	.067	6.822	.004	0	z	19897...	78682...	4.935	8.139	1.136	H2-1
438	8	M31	L5x5x6	.067	6.822	.003	0	y	19897...	78682...	4.935	8.139	1.136	H2-1
439	8	M32	L5x5x6	.067	6.822	.004	0	z	19897...	78682...	4.935	8.139	1.136	H2-1
440	8	M33	L5x5x6	.073	6.822	.004	0	y	19897...	78682...	4.935	8.139	1.136	H2-1
441	8	M34	L5x5x6	.073	6.822	.004	0	z	19897...	78682...	4.935	8.139	1.136	H2-1
442	8	M35	L5x5x6	.071	6.822	.004	0	y	19897...	78682...	4.935	8.139	1.136	H2-1
443	8	M36	L5x5x6	.071	6.822	.003	0	z	19897...	78682...	4.935	8.139	1.136	H2-1
444	8	M37	L5x5x6	.086	6.822	.004	0	y	19897...	78682...	4.935	8.139	1.136	H2-1
445	8	M38	L5x5x6	.086	6.822	.004	0	z	19897...	78682...	4.935	8.139	1.136	H2-1
446	8	M39	L5x5x6	.093	7.613	.004	0	y	49600.6	78682...	4.935	7.829	1.136	H2-1
447	8	M40	L5x5x6	.092	7.613	.003	15.226	y	49600.6	78682...	4.935	7.829	1.136	H2-1
448	8	M41	L5x5x6	.099	7.613	.004	0	y	15976...	78682...	4.935	7.829	1.136	H2-1
449	8	M42	L5x5x6	.101	7.613	.003	15.226	y	49600.6	78682...	4.935	7.829	1.136	H2-1
450	8	M43	L3.5x3.5x5	.253	9.699	.003	19.812	y	10481...	45269...	1.918	2.577	1.136	H2-1
451	8	M44	L3.5x3.5x5	.204	9.906	.004	0	y	10481...	45269...	1.918	2.577	1.136	H2-1
452	8	M45	L5x5x3/8 ...	.216	15.51	.003	0	y	20518...	113307...	7.087	5.185	1.136	H2-1
453	8	M46	L5x5x3/8 ...	.352	15.848	.007	32.37	y	20518...	113307...	7.087	5.185	1.136	H2-1
454	8	M47	WT6x15	.068	0	.004	12.666	y	51096...	94850...	8.587	7.919	1.136	H1-1b*
455	8	M48	WT6x15	.100	12.666	.006	12.666	y	51096...	94850...	8.587	4.949	2.298	H1-1b
456	8	M49	WT6x15	.059	6.048	.004	12.096	y	53179...	94850...	8.587	7.919	1.136	H1-1b
457	8	M50	WT6x15	.071	0	.004	12.096	y	53179...	94850...	8.587	7.919	1.136	H1-1b*
458	8	M51	WT6x15	.044	6.393	.004	12.787	y	50651...	94850...	8.587	7.919	1.136	H1-1b
459	8	M52	WT6x15	.047	6.393	.005	12.787	y	50651...	94850...	8.587	7.919	1.136	H1-1b
460	8	M53	WT6x15	.040	6.005	.004	0	y	53489...	94850...	8.587	7.919	1.136	H1-1b
461	8	M54	WT6x15	.035	6.005	.004	12.011	y	53489...	94850...	8.587	7.919	1.136	H1-1b
462	8	M55	WT6x15	.041	6.443	.004	12.885	y	50288...	94850...	8.587	7.919	1.136	H1-1b
463	8	M56	WT6x15	.050	6.443	.005	0	y	50288...	94850...	8.587	7.919	1.136	H1-1b
464	8	M57	WT6x15	.041	6.07	.004	0	y	53022...	94850...	8.587	7.919	1.136	H1-1b
465	8	M58	WT6x15	.042	6.07	.004	12.139	y	53022...	94850...	8.587	7.919	1.136	H1-1b
466	8	M59	WT6x15	.053	6.369	.004	12.738	y	50830...	94850...	8.587	7.919	1.136	H1-1b
467	8	M60	WT6x15	.044	6.369	.005	0	y	50830...	94850...	8.587	7.919	1.136	H1-1b
468	8	M61	WT6x15	.049	6.07	.005	0	y	53022...	94850...	8.587	7.919	1.136	H1-1b
469	8	M62	WT6x15	.033	6.07	.004	12.139	y	53022...	94850...	8.587	7.919	1.136	H1-1b
470	8	M63	WT6x15	.057	6.369	.004	12.738	y	50830...	94850...	8.587	7.919	1.136	H1-1b
471	8	M64	WT6x15	.054	6.369	.005	0	y	50830...	94850...	8.587	7.919	1.136	H1-1b
472	8	M65	WT6x15	.043	5.741	.005	0	y	55390...	94850...	8.587	7.919	1.136	H1-1b
473	8	M66	WT6x15	.041	5.741	.004	11.482	y	55390...	94850...	8.587	7.919	1.136	H1-1b
474	8	M71	HSS8x4x4	.011	0	.003	0	y	68324...	112958...	14.731	23.892	2.382	H1-1b
475	8	M72	HSS8x4x4	.011	13.5	.003	13.5	y	68324...	112958...	14.731	23.892	2.382	H1-1b
476	8	M75	HSS6x4x4	.034	0	.004	18.182	y	35045...	92694...	11.587	15.323	2.381	H1-1b
477	8	M76	HSS6x4x4	.034	0	.004	18.182	y	35045...	92694...	11.587	15.323	2.381	H1-1b
478	8	M77	HSS6x4x4	.024	0	.004	0	y	38408...	92694...	11.587	15.323	2.381	H1-1b
479	8	M76A	L4x4x5/16...	.085	0	.001	0	y	39908...	81697...	3.706	6.632	2.582	H2-1
480	8	M77A	L4x4x5/16...	.099	0	.002	0	y	39908...	81697...	3.706	6.632	2.793	H2-1
481	8	M78	L4x4x5/16...	.081	0	.003	0	y	11074...	81697...	3.706	6.632	2.25	H2-1
482	8	M79	L4x4x5/16...	.086	0	.003	0	y	11074...	81697...	3.706	6.632	2.315	H2-1
483	8	M84	PIPE 3.0	.193	12.5	.004	0		18796...	43383...	3.825	3.825	1.147	H1-1b
484	8	M85	PIPE 3.0	.192	0	.004	12.5		18796...	43383...	3.825	3.825	1.147	H1-1b
485	8	M86	PIPE 3.0	.191	0	.004	0		18796...	43383...	3.825	3.825	1.147	H1-1b
486	8	M87	HSS4x0.2...	.599	0	.039	0		47654...	59497...	5.946	5.946	2.173	H1-1b
487	8	M88	HSS4x0.2...	.597	0	.039	0		47654...	59497...	5.946	5.946	2.173	H1-1b



Member AISC 13th(360-05): ASD Steel Code Checks (Continued)

LC	Member	Shape	UC Max	Loc[ft]	Shear ...	Loc[ft]	Dir	Pnc/om...	Pnt/om...	Mnvy/o...	Mnzz/o...	Cb	Eqn	
488	8	M89	HSS4x0.2...	.597	0	.039	0	47654...	59497...	5.946	5.946	2.173	H1-1b	
489	9	M1	W24x68 w...	.053	0	.008	19	y	1.1562...	1.5522...	375.833	1420.0...	1.182	H1-1b
490	9	M2	W24x68 w...	.063	0	.008	19	y	1.1562...	1.5522...	375.833	1420.0...	1.187	H1-1b
491	9	M3	W24x68	.137	55.309	.012	59.08	y	328006...	601796...	61.128	149.801	3	H1-1b
492	9	M4	W24x68	.138	54.68	.013	59.08	y	328006...	601796...	61.128	129.622	2.596	H1-1b
493	9	M5	HSS18x0...	.047	0	.005	0	457542...	536526...	249.75	249.75	2.272	H1-1b	
494	9	M6	HSS18x0...	.017	0	.003	3.175	463151...	536526...	249.75	249.75	2.423	H1-1b*	
495	9	M7	HSS18x0...	.024	17.206	.003	16.91	459324...	536526...	249.75	249.75	1.632	H1-1b	
496	9	M8	HSS18x0...	.013	0	.001	0	473500...	536526...	249.75	249.75	2.206	H1-1b*	
497	9	M29	L5x5x6	.067	6.822	.004	0	y	19897...	78682...	4.935	8.139	1.136	H2-1
498	9	M30	L5x5x6	.066	6.822	.004	0	z	19897...	78682...	4.935	8.139	1.136	H2-1
499	9	M31	L5x5x6	.067	6.822	.004	0	y	19897...	78682...	4.935	8.139	1.136	H2-1
500	9	M32	L5x5x6	.067	6.822	.003	0	z	19897...	78682...	4.935	8.139	1.136	H2-1
501	9	M33	L5x5x6	.073	6.822	.003	0	y	19897...	78682...	4.935	8.139	1.136	H2-1
502	9	M34	L5x5x6	.073	6.822	.004	0	z	19897...	78682...	4.935	8.139	1.136	H2-1
503	9	M35	L5x5x6	.071	6.822	.004	0	y	19897...	78682...	4.935	8.139	1.136	H2-1
504	9	M36	L5x5x6	.071	6.822	.004	0	z	19897...	78682...	4.935	8.139	1.136	H2-1
505	9	M37	L5x5x6	.085	6.822	.004	0	y	19897...	78682...	4.935	8.139	1.136	H2-1
506	9	M38	L5x5x6	.087	6.822	.004	0	z	19897...	78682...	4.935	8.139	1.136	H2-1
507	9	M39	L5x5x6	.092	7.613	.004	15.226	y	49600.6	78682...	4.935	7.829	1.136	H2-1
508	9	M40	L5x5x6	.093	7.613	.004	0	y	49600.6	78682...	4.935	7.829	1.136	H2-1
509	9	M41	L5x5x6	.165	7.454	.003	15.226	y	15976...	78682...	4.935	7.829	1.136	H2-1
510	9	M42	L5x5x6	.099	7.613	.004	0	y	49600.6	78682...	4.935	7.829	1.136	H2-1
511	9	M43	L3.5x3.5x5	.204	9.906	.004	0	y	10481...	45269...	1.918	2.577	1.136	H2-1
512	9	M44	L3.5x3.5x5	.253	9.699	.003	0	y	10481...	45269...	1.918	2.577	1.136	H2-1
513	9	M45	L5x5x3/8 ...	.351	15.848	.007	32.37	y	20518...	113307...	7.087	5.185	1.136	H2-1
514	9	M46	L5x5x3/8 ...	.216	15.51	.003	0	y	20518...	113307...	7.087	5.185	1.136	H2-1
515	9	M47	WT6x15	.059	6.333	.005	12.666	y	51096...	94850...	8.587	7.919	1.136	H1-1b
516	9	M48	WT6x15	.114	0	.005	0	y	51096...	94850...	8.587	4.949	2.682	H1-1b
517	9	M49	WT6x15	.072	0	.004	0	y	53179...	94850...	8.587	7.919	1.136	H1-1b*
518	9	M50	WT6x15	.059	6.048	.005	12.096	y	53179...	94850...	8.587	7.919	1.136	H1-1b
519	9	M51	WT6x15	.047	6.393	.005	12.787	y	50651...	94850...	8.587	7.919	1.136	H1-1b
520	9	M52	WT6x15	.044	6.393	.004	0	y	50651...	94850...	8.587	7.919	1.136	H1-1b
521	9	M53	WT6x15	.035	6.005	.004	12.011	y	53489...	94850...	8.587	7.919	1.136	H1-1b
522	9	M54	WT6x15	.040	6.005	.004	0	y	53489...	94850...	8.587	7.919	1.136	H1-1b
523	9	M55	WT6x15	.050	6.443	.005	0	y	50288...	94850...	8.587	7.919	1.136	H1-1b
524	9	M56	WT6x15	.041	6.443	.004	12.885	y	50288...	94850...	8.587	7.919	1.136	H1-1b
525	9	M57	WT6x15	.042	6.07	.004	12.139	y	53022...	94850...	8.587	7.919	1.136	H1-1b
526	9	M58	WT6x15	.041	6.07	.004	0	y	53022...	94850...	8.587	7.919	1.136	H1-1b
527	9	M59	WT6x15	.044	6.369	.005	0	y	50830...	94850...	8.587	7.919	1.136	H1-1b
528	9	M60	WT6x15	.053	6.369	.004	12.738	y	50830...	94850...	8.587	7.919	1.136	H1-1b
529	9	M61	WT6x15	.033	6.07	.004	12.139	y	53022...	94850...	8.587	7.919	1.136	H1-1b
530	9	M62	WT6x15	.049	6.07	.005	0	y	53022...	94850...	8.587	7.919	1.136	H1-1b
531	9	M63	WT6x15	.054	6.369	.004	0	y	50830...	94850...	8.587	7.919	1.136	H1-1b
532	9	M64	WT6x15	.057	6.369	.004	12.738	y	50830...	94850...	8.587	7.919	1.136	H1-1b
533	9	M65	WT6x15	.041	5.741	.004	0	y	55390...	94850...	8.587	7.919	1.136	H1-1b
534	9	M66	WT6x15	.043	5.741	.005	11.482	y	55390...	94850...	8.587	7.919	1.136	H1-1b
535	9	M71	HSS8x4x4	.011	13.5	.003	13.5	y	68324...	112958...	14.731	23.892	2.382	H1-1b
536	9	M72	HSS8x4x4	.011	0	.003	0	y	68324...	112958...	14.731	23.892	2.381	H1-1b
537	9	M75	HSS6x4x4	.034	18.182	.004	0	y	35045...	92694...	11.587	15.323	2.381	H1-1b
538	9	M76	HSS6x4x4	.034	18.182	.004	0	y	35045...	92694...	11.587	15.323	2.381	H1-1b
539	9	M77	HSS6x4x4	.024	17.321	.004	17.321	y	38408...	92694...	11.587	15.323	2.381	H1-1b
540	9	M76A	L4x4x5/16...	.090	0	.001	0	y	39908...	81697...	3.706	6.632	3	H2-1
541	9	M77A	L4x4x5/16...	.098	0	.002	0	y	39908...	81697...	3.706	6.632	2.553	H2-1
542	9	M78	L4x4x5/16...	.090	0	.003	0	y	11074...	81697...	3.706	6.632	2.155	H2-1
543	9	M79	L4x4x5/16...	.090	0	.003	0	y	11074...	81697...	3.706	6.632	2.209	H2-1
544	9	M84	PIPE 3.0	.192	12.5	.004	0	18796...	43383...	3.825	3.825	1.147	H1-1b	



Company : AT&T Mobility
 Designer : DAVI
 Job Number : 411261
 Model Name : Cromwell SW CT

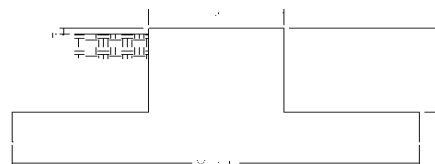
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Member AISC 13th(360-05): ASD Steel Code Checks (Continued)

LC	Member	Shape	UC Max	Loc[ft]	Shear ...	Loc[ft]	Dir Pnc/om...	Pnt/om ...	Mnyy/o...	Mnzz/o...	Cb	Eqn
545	9	M85	PIPE 3.0	.193	0	.004	12.5	18796....	43383....	3.825	3.825	1.147 H1-1b
546	9	M86	PIPE 3.0	.191	12.5	.004	12.5	18796....	43383....	3.825	3.825	1.147 H1-1b
547	9	M87	HSS4x0.2...	.597	0	.039	0	47654....	59497....	5.946	5.946	2.173 H1-1b
548	9	M88	HSS4x0.2...	.597	0	.039	0	47654....	59497....	5.946	5.946	2.173 H1-1b
549	9	M89	HSS4x0.2...	.599	0	.039	0	47654....	59497....	5.946	5.946	2.173 H1-1b

Site Name: Cromwell SW CT, CT
 Site Number: 411261
 Engineering Number: OAA702243_C3_01
 Engineer: DAVI
 Date: 05/22/17
 Tower Type: SST w/3 Legs

Program Last Updated: 11/15/2012



Design Loads (Unfactored)

Design / Analysis / Mapping:	Mapping
Compression/Leg:	58.3 k
Uplift/Leg:	101.7 k
Total Shear:	16.4 k
Moment:	909.6 k-ft
Tower + Appurtenance Weight:	34.5 k
Depth to Base of Foundation:	3.00 ft
Diameter of Pier (d):	0.75 ft
Height of Pier above Ground (h):	0.50
Width of Pad (W):	26.50 ft
Length of Pad (L):	16.00 ft
Thickness of Pad (t):	3.00 ft
Tower Leg Center to Center:	13.00 ft
Number of Tower Legs:	3.0 (1 if MP or GT)
Tower Center from Mat Center:	0.00 ft
Depth Below Ground Surface to Water Table:	99.00 ft
Unit Weight of Concrete:	150.0 pcf
Unit Weight of Soil Above Water Table:	110.0 pcf
Unit Weight of Water:	62.4 pcf
Unit Weight of Soil Below Water Table:	47.6 pcf
Friction Angle of Uplift:	15.00 Degrees
Ultimate Coefficient of Shear Friction:	0.30
Allowable Compressive Bearing Pressure:	10000.0 psf
Ultimate Passive Pressure on Pad Face:	0.0 psf
Allowable Capacity Increase:	1.00

Overturning Factor of Safety

Design OTM:	966.8 k-ft
OTM Resistance:	4682.8 k-ft
OTM Resistance / Design OTM Factor of Safety:	4.84 Result: OK

Soil Bearing Pressure Usage:

Net Bearing Pressure:	1653 psf
Allowable Bearing Pressure:	10000 psf
Net Bearing Pressure/Allowable Bearing Pressure:	0.17 Result: OK
Load Direction Controlling Design Bearing Pressure:	Diagonal to Pad Edge

Sliding Factor of Safety

Total Ultimate Sliding Resistance:	67.6 k
Sliding Resistance/Sliding Design Factor of Safety:	4.14 Result: OK