



## Twin Falls Archway Project Ad Hoc Citizens Advisory Committee Agenda

Thursday, June 28, 2018, 8:45 AM

203 Main Avenue East  
Twin Falls, ID 83301

### **SPECIAL MEETING**

**Members:** Greg Middlekauff, Jeanette Roe, John Kapeleris, Leonard Anderson, Micah Campbell, Nikki Boyd, Paula Brown Sinclair, Rex Lytle, Tony Prater, Ruth Pierce, Melissa Crane

**Facilitator:** Kathy Markus

**Staff:** Mitch Humble, Lisa Strickland

- 1) Confirmation of Quorum/Call Meeting to Order
- 2) Consent Calendar
  - a) Approval of minutes from the following meeting: 05-03-18  
Purpose: **ACTION ITEM**
- 3) Items for Discussion
  - a) Update on Location
  - b) Update on Engineering
  - c) Update on Funding
  - d) Sign Up for Events
  - e) Flyer Amendment
- 4) General Input/Announcements - Public/Staff
- 5) Upcoming Meeting(s)
  - a) August 2, 2018
- 6) Adjournment

Any person(s) needing special accommodations to participate in the above-noticed meeting could contact Kathy Markus (208) 735-7222 at least two working days before the meeting. Si desea esta información en español, llame Leila Sanchez (208) 735-7287.



## Twin Falls Archway Project Ad Hoc Citizens Advisory Committee Minutes

Thursday, May 3, 2018, 8:45 AM

203 Main Ave E  
Twin Falls, ID 83301

### **SPECIAL MEETING**

**Members:** Greg Middlekauff, Jeanette Roe, John Kapeleris, Leonard Anderson, Micah Campbell, Nikki Boyd, Paula Brown Sinclair, Rex Lytle, Tony Prater, Ruth Pierce, Melissa Crane

**Facilitator:** Kathy Markus

**Staff:** Lisa Strickland

#### **1) Confirmation of Quorum/Call Meeting to Order**

IT Director Markus called the meeting to order and confirmed a quorum.

#### **2) Consent Calendar**

- a) Approval of minutes from the following meeting(s): 04-05-18  
Members Present: Prater, Lytle, Sinclair, Anderson, Roe, Pierce

##### **Motion:**

Member Pierce made a motion to approve the consent calendar, as presented. Member Anderson seconded the motion.

**Unanimously Approved**

#### **3) Items for Discussion**

##### **a) Fundraising Update**

Member Anderson provided a brochure highlighting this project for fund raising purposes. The brochure highlights the archway and identifies how donations can be made. He made an update on other donations from John Deere, Kiwanis and a few others.

Member Pierce stated she has done three presentations to the rotary board and they are reviewing the request to make a decision. She would like to receive a donation large enough for the rotary to have a bubble on the recognition sign.

Member Prater stated that Jensen Jewelers has made a donation.

IT Director Markus stated she has contacted Rise n Shine and stated that they do a shoe live at Noon it is a 3 minute interview and there is a spot open from May 14, 2018 forward. She also provided a list of different upcoming events and explained if the committee wants to do a booth at one of these events she will have to know in advance and there will have to be volunteers from the committee to sit at the booth.

Member Pierce suggested Western Days and the Band Concerts would be a good place to have a booth.

IT Director Markus explained she will work on getting information about the Western Days and send out information for members to sign up for times to sit at the booth.

b) Engineering Documents

Rex explained that the costs are up from when it was originally designed, a single beam was presented but now it has two beams and engineered steel supports for the sign construction. This would be approximately 300,000.00 as well as the fact that it is going over a city street will increase the cost. The structure being much more significant is the only thing that he can think of that was not included in the original cost estimate. On the message center a different matrix could be used reducing the cost.

Member Anderson asked if there were in-kind builders, electrical or excavators would that reduce the cost.

IT Director Markus explained that she doesn't have an itemized list so she couldn't say what the in-kind may have on the cost.

Member Sinclair asked if the bid could ask for cost itemization as well as alternative.

IT Director Markus stated she would have to look into the details for a bid request.

**4) General Input/Announcements - Public/Staff**

**5) Upcoming Meeting(s)**

a) June 7, 2018 at 8:45 am

**6) Adjournment**

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Lisa A. Strickland, Administrative Assistant



**TWIN FALLS ARCHWAY**  
 TWIN FALLS, ID

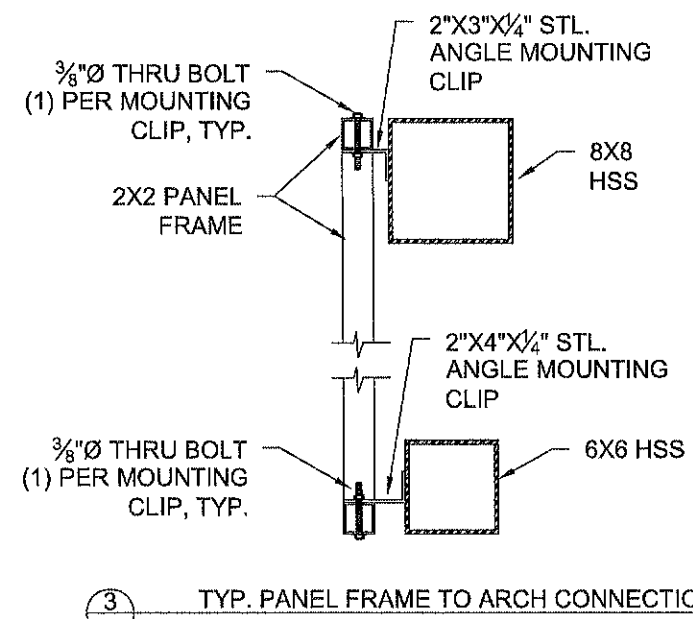
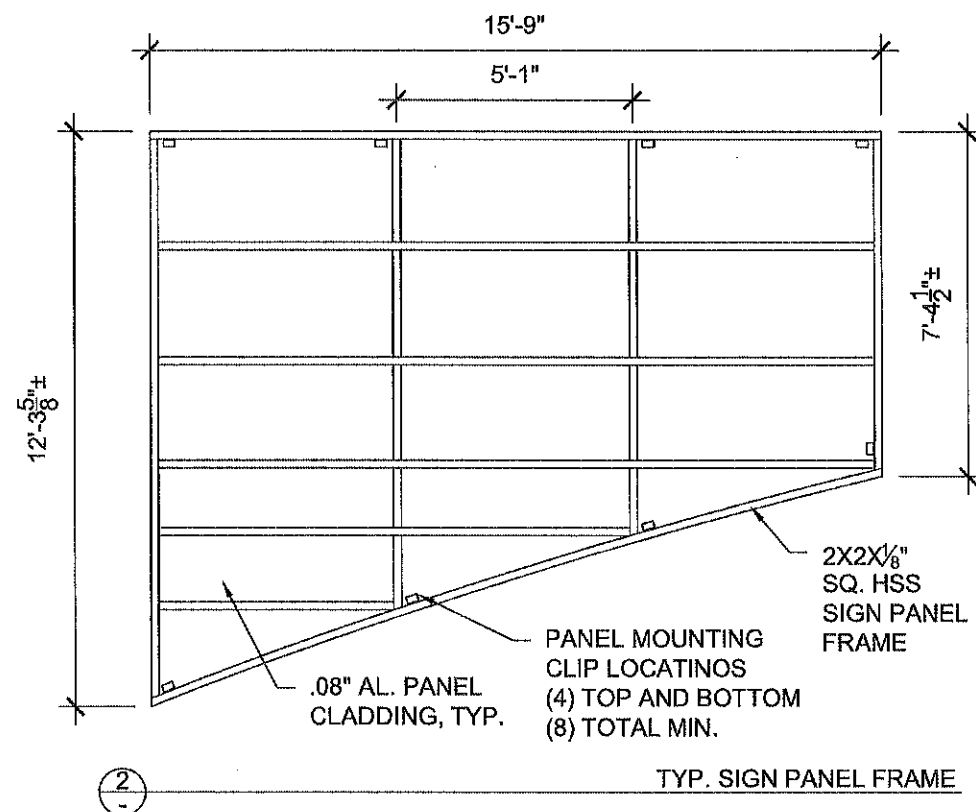
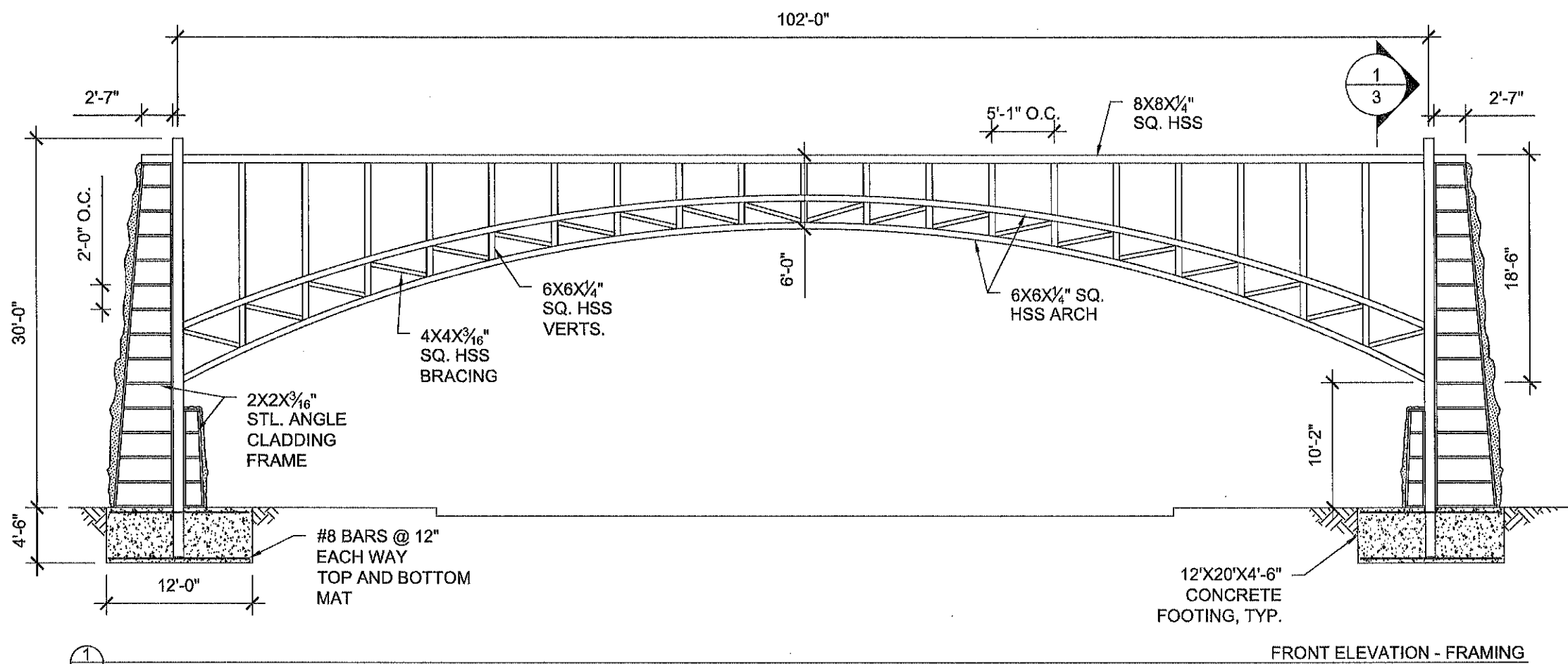
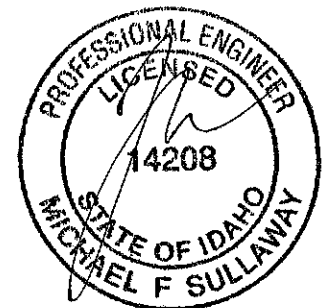
CLIENT:  
 LYTLE SIGNS INC.

PROJECT NUMBER:  
 15975

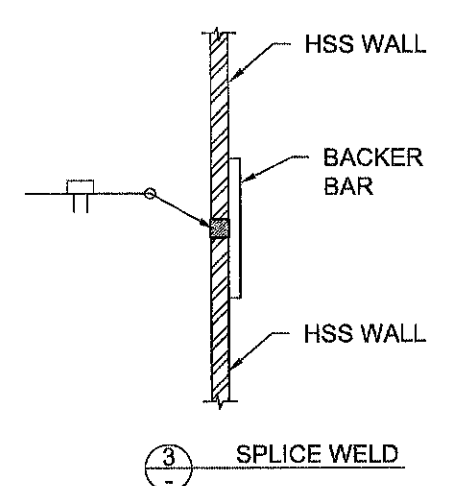
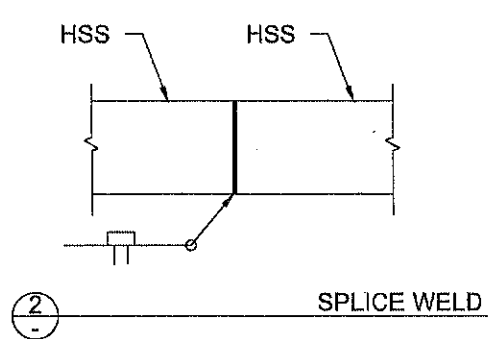
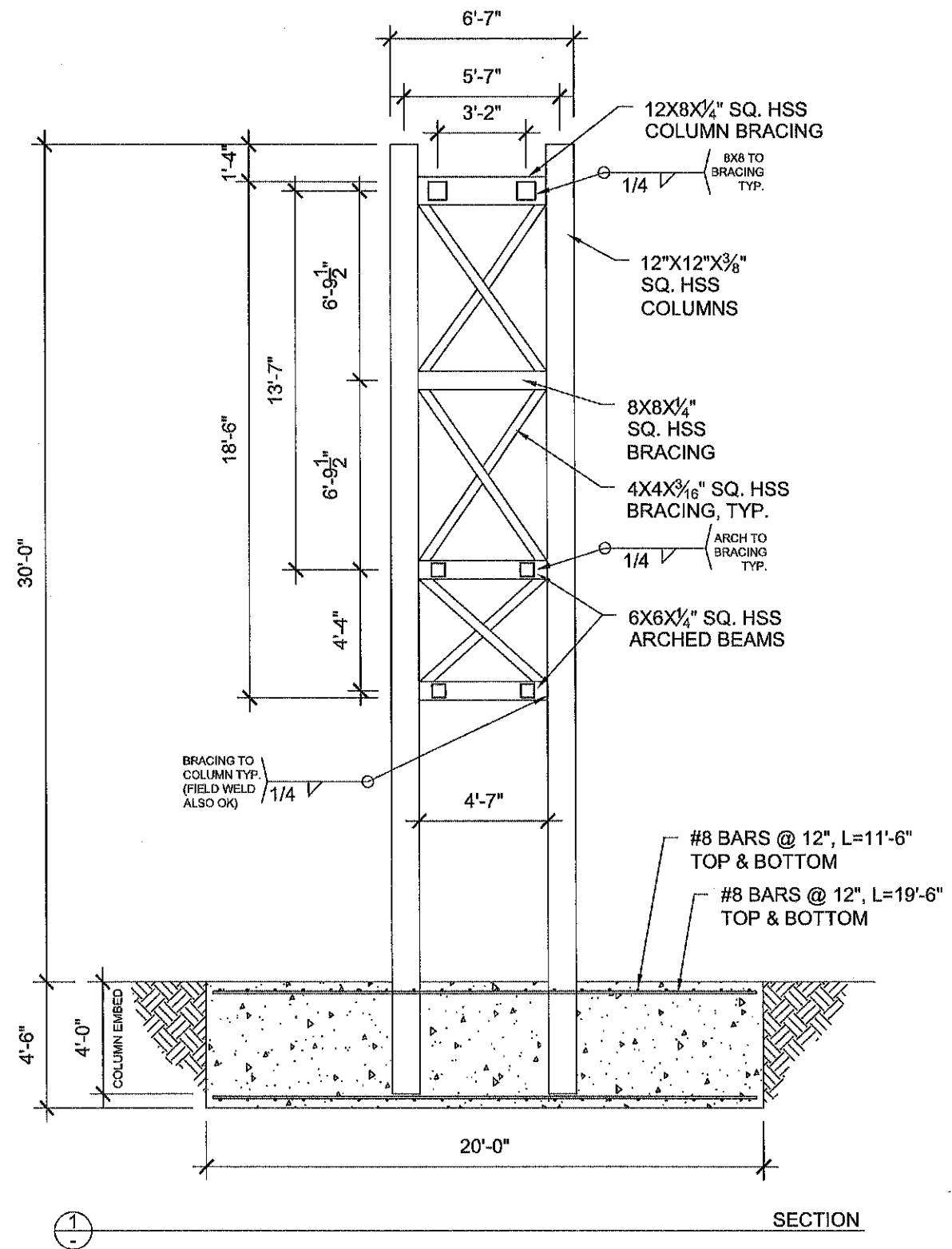
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 DRAWN BY: JS  
 DESIGNED BY: JS

REVISIONS:  
 NO. DATE

- 1 4-17-16 - REVISED FRAME SPAN TO END IN COLUMN BRACING, NOT COLUMN VERTICALS
- 2
- 3
- 4
- 5



APR 24 2018



**SULLAWAY ENGINEERING**  
 10816 RANCHO BERNARDO ROAD, SUITE 260  
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 (858) 312-5150  
 www.sullawayeng.com

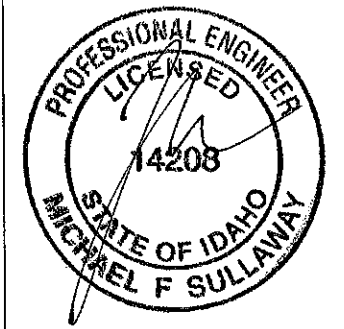
TWIN FALLS ARCHWAY  
 TWIN FALLS, ID

CLIENT:  
 LYTLE SIGNS INC.

PROJECT NUMBER:  
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 SCALE: NO SCALE  
 DRAWN BY: JS  
 DESIGNED BY: JS

REVISIONS: NO.	DATE
1	4-17-18 - REVISED FRAME SPAN TO END IN COLUMN BRACING, NOT COLUMN VERTICALS
2	
3	
4	
5	



APR 24 2018

SHEET:  
 3 of 25

PROJECT: Twin Falls - Archway  
PROJ. NO.: 15975  
CLIENT: Lytle Signs, Inc.

DATE: 3/9/2018  
ENGINEER: JS

**Applied Wind Loads Per AASHTO LRFD Specifications for Structural Supports for Highway signs**

$P_z = 0.00256 * K_z * K_d * G * V^2 * C_d$  eq. 3.8.1-1  
 $K_z = 1.0$  (Sec. 3.8.4)  
 $K_d = 0.85$  (Table 3.8.5.1)  
 $G = 1.14$  (Sec. 3.8.6)  
 $V = 120$  mph  
 $C_d \text{ truss} = 1.25$  (Table 3.8.7-1)  
 $P_z \text{ truss} = 44.85$  PSF  
 $C_d \text{ panel} = 1.15$  (Table 3.8.7-1)  
 $P_z \text{ panel} = 41.08$  PSF

**Fatigue Loading (Ch. 11)**

Galloping: N/A  
 Natural Wind Gust:  $P_{nw} = 5.2 * C_d * I_f$  (eq. 11.7.1.2-1)  
 Importance factor  $I_f = 1.00$  (sec. 11.6)  
 $P_{nw} \text{ truss} = 6.50$  PSF  
 $P_{nw} \text{ Panel} = 5.98$  PSF  
 Truck Induced Gust:  $P_{tg} = 18.8 * C_d * (V_t / 65 \text{ mph})^2 * I_f$  (eq. C11.7.1.3-1)  
 Importance factor  $I_f = 1.00$  (sec. 11.6)  $V_t = 25$  mph  
 $P_{tg} \text{ truss} = 3.48$  PSF  
 $P_{tg} \text{ Panel} = 3.20$  PSF

**Check 3/8" Thru Bolt securing panel frame to mounting clips**

Trib. Area=  $.5(5.25 \text{ ft})(12.167 \text{ ft}) = 32 \text{ ft}^2$   
 wind force=  $(32 \text{ ft}^2)(41 \text{ psf}) = 1312 \text{ lbs}$   
 dead load=  $1.25(10 \text{ psf})(32 \text{ ft}^2) = 400 \text{ lbs}$

T per anchor= .400 k  
 T capacity=  $.75(45 \text{ ksi})(.11 \text{ in}^2) = 3.71 \text{ k}$  OK  
 V per anchor= 1.31 k  
 V capacity=  $.75(27 \text{ ksi})(.11 \text{ in}^2) = 2.22 \text{ k}$  OK  
 Fatigue load=  $(32 \text{ ft}^2)(6 \text{ psf}) = 192 \text{ lbs}$   
 A bolt=  $.11 \text{ in}^2$   
 Bolt Stress=  $.192 \text{ k} / .11 \text{ in}^2 = 1.75 \text{ ksi} < 7 \text{ ksi Threshold}$  OK

**Check 2"x4"x1/4" Mounting clip for panel frames, L= 3"**

Bolt Bearing= 1.31 k  
 $\Phi R_n = 2.4 * D * t * F_u = 2.4(.375 \text{ in})(.25 \text{ in})(60 \text{ ksi}) = 13.5 \text{ k}$  OK  
 Angle Leg Mu=  $(.400 \text{ k})(3 \text{ in}) = 1.20 \text{ k-in}$   
 $Z = .25(3 \text{ in})(.25 \text{ in})^2 = .047 \text{ in}^3$   
 $\phi M = \phi f_y Z = (.9)(36 \text{ ksi})(.047 \text{ in}^3) = 1.52 \text{ k-in}$  OK

**Check 3/8" Thru Bolt securing EMC to Panel frame - (3) top and bottom - (6) total min.**

EMC Area=  $(5.667 \text{ ft})(10.667 \text{ ft}) = 61 \text{ ft}^2$   
 wind force=  $(61 \text{ ft}^2)(41 \text{ psf}) = 2501 \text{ lbs}$   
 dead load=  $1.25(10 \text{ psf})(61 \text{ ft}^2) = 763 \text{ lbs}$   
 T per anchor=  $.763 \text{ k} / 6 = .127 \text{ k}$   
 T capacity=  $.75(45 \text{ ksi})(.11 \text{ in}^2) = 3.71 \text{ k}$  OK  
 V per anchor=  $2.501 \text{ k} / 6 = .417 \text{ k}$   
 V capacity=  $.75(27 \text{ ksi})(.11 \text{ in}^2) = 2.22 \text{ k}$  OK  
 Fatigue load=  $(11 \text{ ft}^2)(6 \text{ psf}) = 66 \text{ lbs}$   
 A bolt=  $.11 \text{ in}^2$   
 Bolt Stress=  $.066 \text{ k} / .11 \text{ in}^2 = 0.60 \text{ ksi} < 7 \text{ ksi Threshold}$  OK



PROJECT: Twin Falls Archway  
PROJ. NO.: 15975  
CLIENT: Lytle Signs

DATE: 4/16/18  
ENGINEER: JS

Version 3.0

**Transverse Direction**

units; pounds, feet unless noted otherwise

applied shear at grade  $v = 19$  kip unfactored load X per RISA Report  
applied moment at grade  $m = 96$  kip-ft unfactored load Mz per RISA Report  
depth of soil above footing  $h_s = 0$  ft  
allowable soil bearing  $p = 2.0$  ksf

(use a factor of 1.33 for wind or seismic)

**Spread Footing Design**

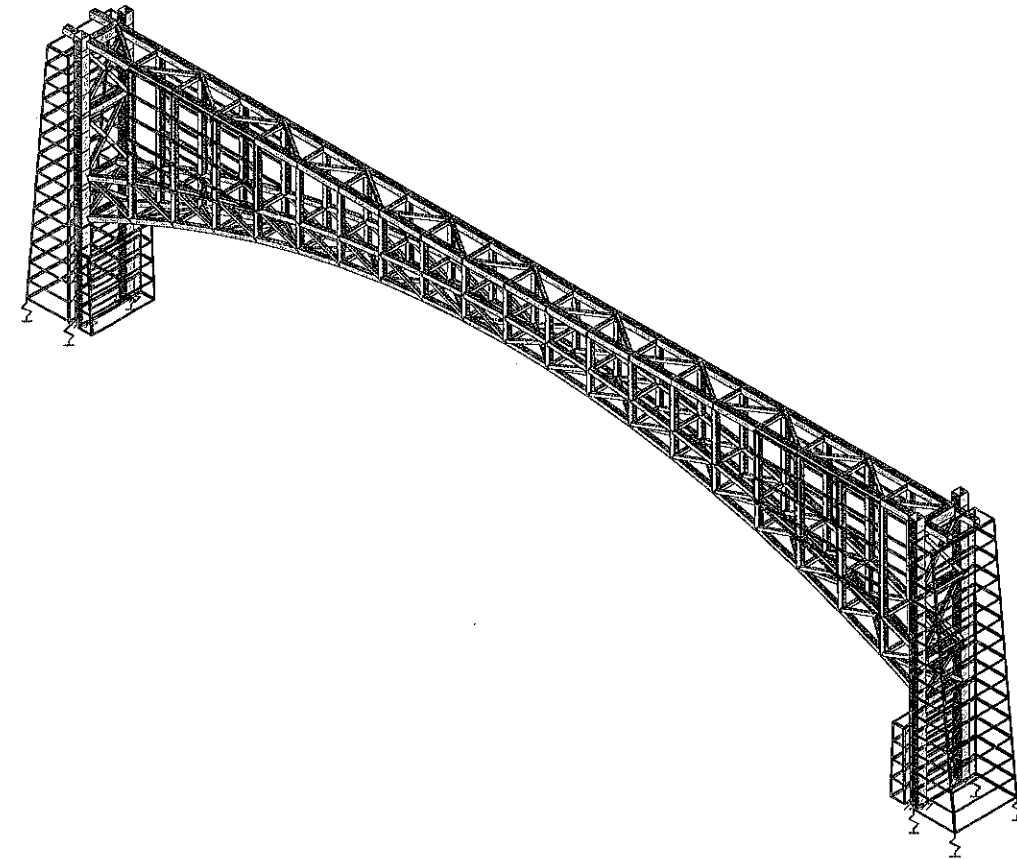
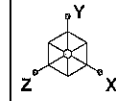
moment  $m = 181.5$  k-ft at base of footing  
Footing size (ft)  $b = 20.00$   $L = 12.0$   $h = 4.50$   $S = 480.1$   
Footing Weight =  $162.0$  k signage weight =  $40.0$  k soil  $0.00$  total =  $202.00$   
Overturning;  $M_c = 1212$   $M_c > 1.5M$   $6.6777$  ok  
soil pressure; max =  $1.220$  ksf ok  
forces on concrete pad;  $V = 123.7$  k  $V_r = 198$  k ( $= 1.6V$ )  
 $M = 371$  k-ft  $M_r = 594$  k-ft

**Check Slab;**

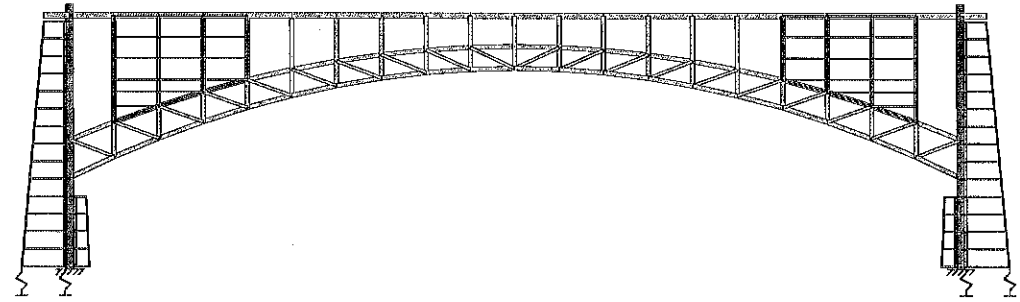
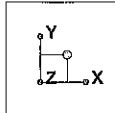
$\phi = 0.9$   $f_y = 60$  ksi  $f_c = 2.5$  ksi  $150$  lbs/ft<sup>3</sup>  
Flexure  $A_s = 4.00$   $d = 50.0$  in  
 $\phi M_n = \phi A_s f_y (d - a/2) = 10749$  k-in =  $895.8$  k-ft  $M_r < \phi M_n$  ok  
 $a = A_s f_y / 0.85 f_c b = 0.471$  in

**Check minimum**  $A_{smin} = 2 \sqrt{f_c} b d / f_y = 30$   $200 b d / f_y = 40.00$  or  $1.333 A_s = 5.33$  in<sup>2</sup>  
**Use  $A_s = 5.33$  in<sup>2</sup>**

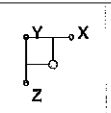
Shear;  $\phi V_n = \phi 2 \sqrt{f_c} b d$   $\phi V_c = 900.0$   $\phi = 0.75$   $V_r < \phi V_n$  ok

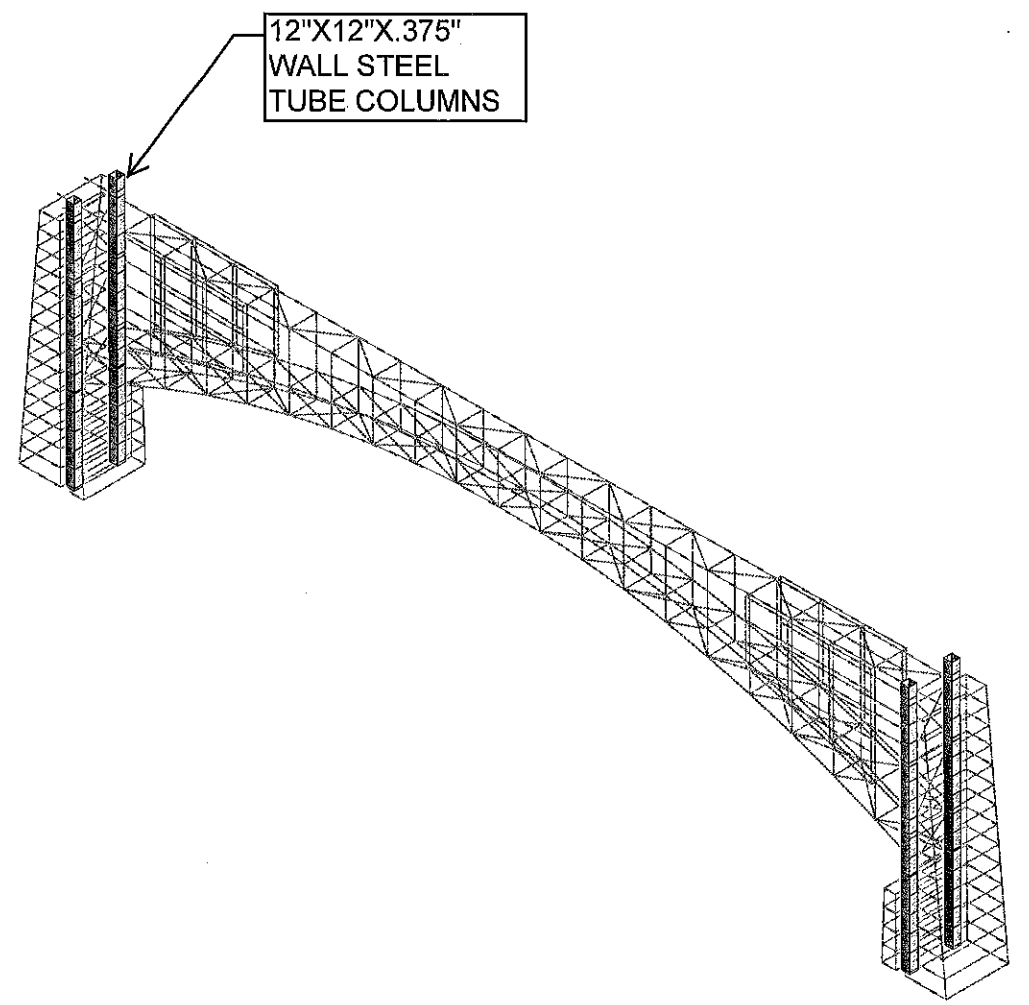


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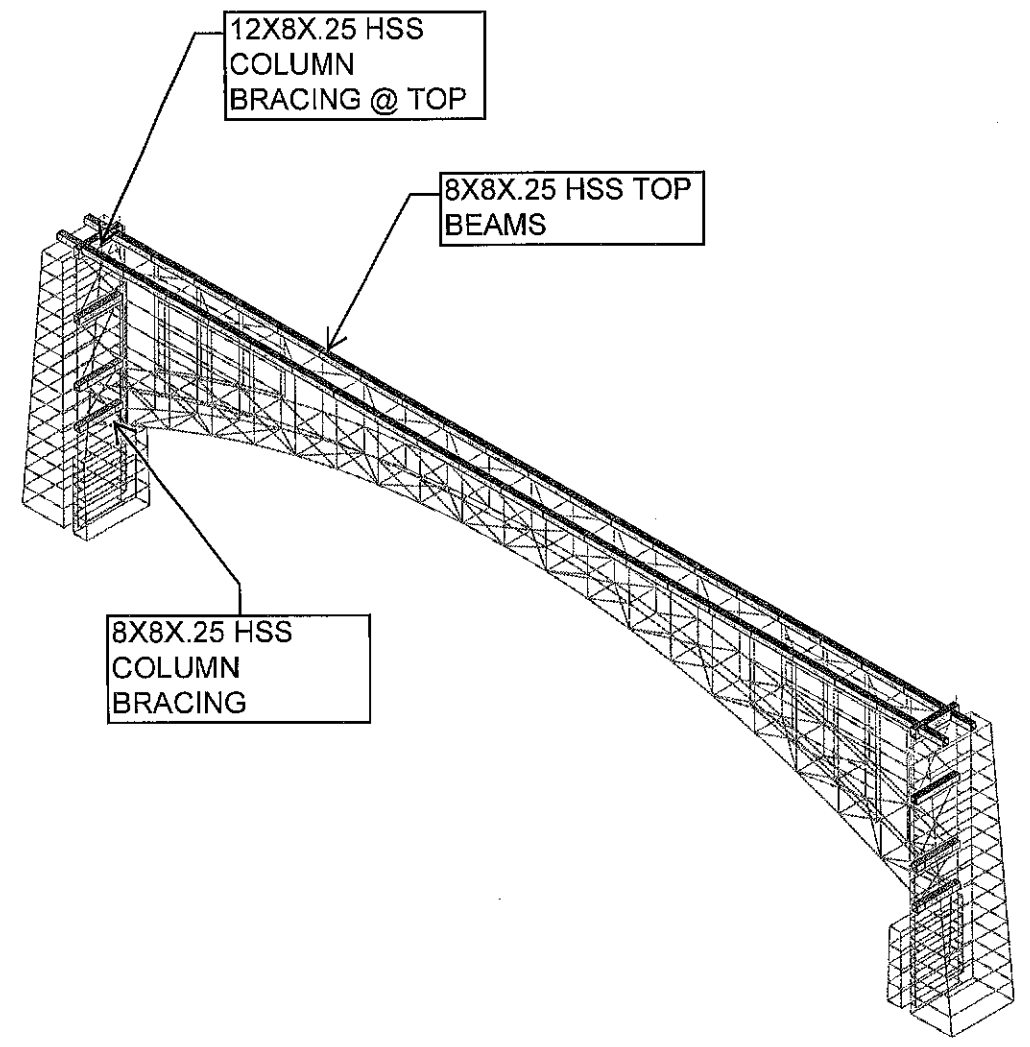
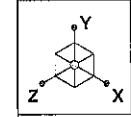


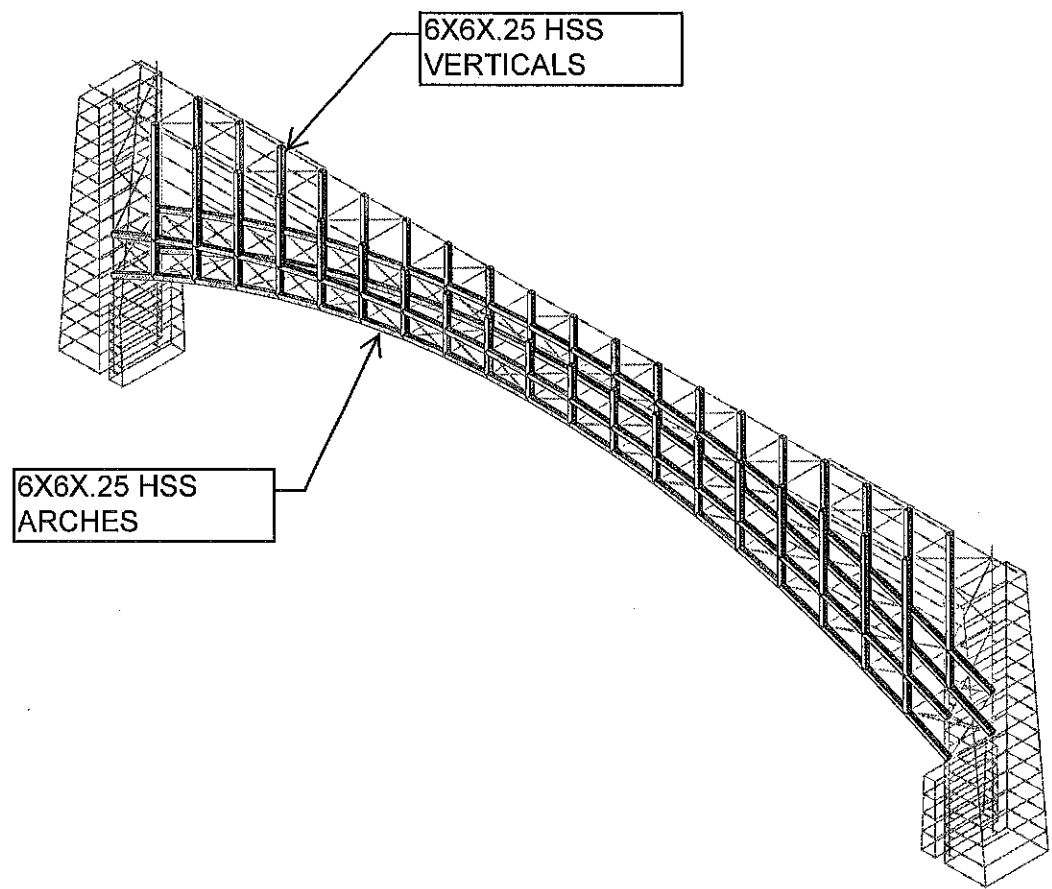
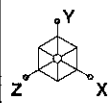
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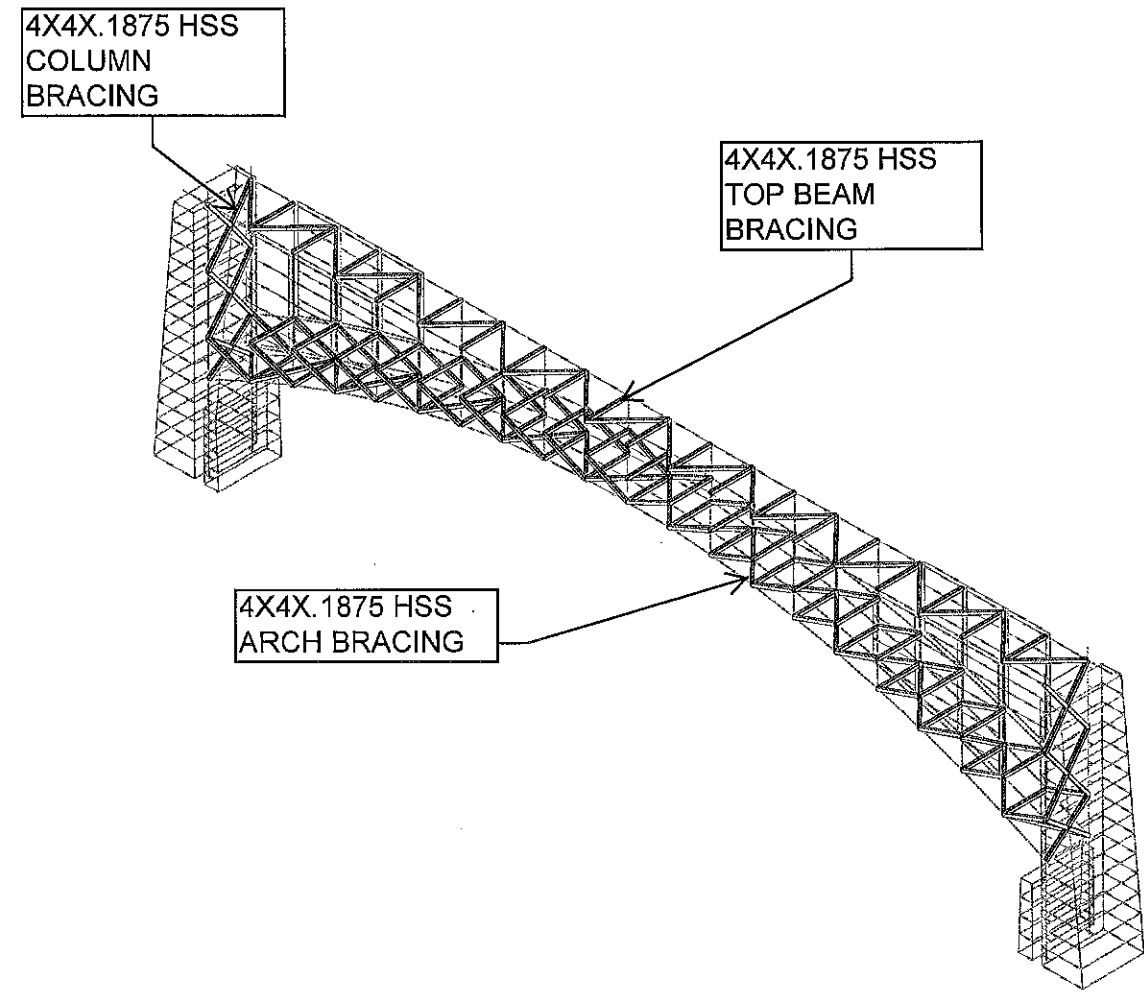
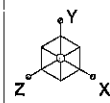


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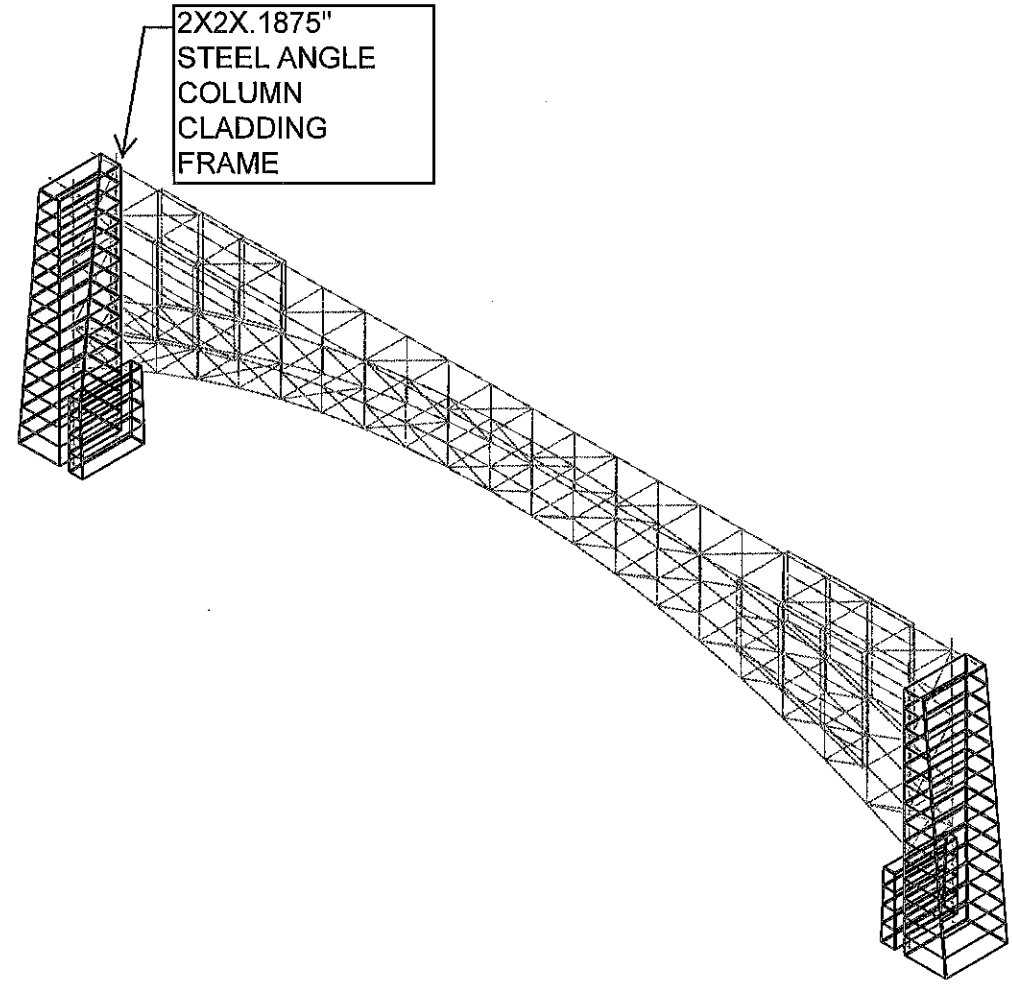
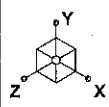




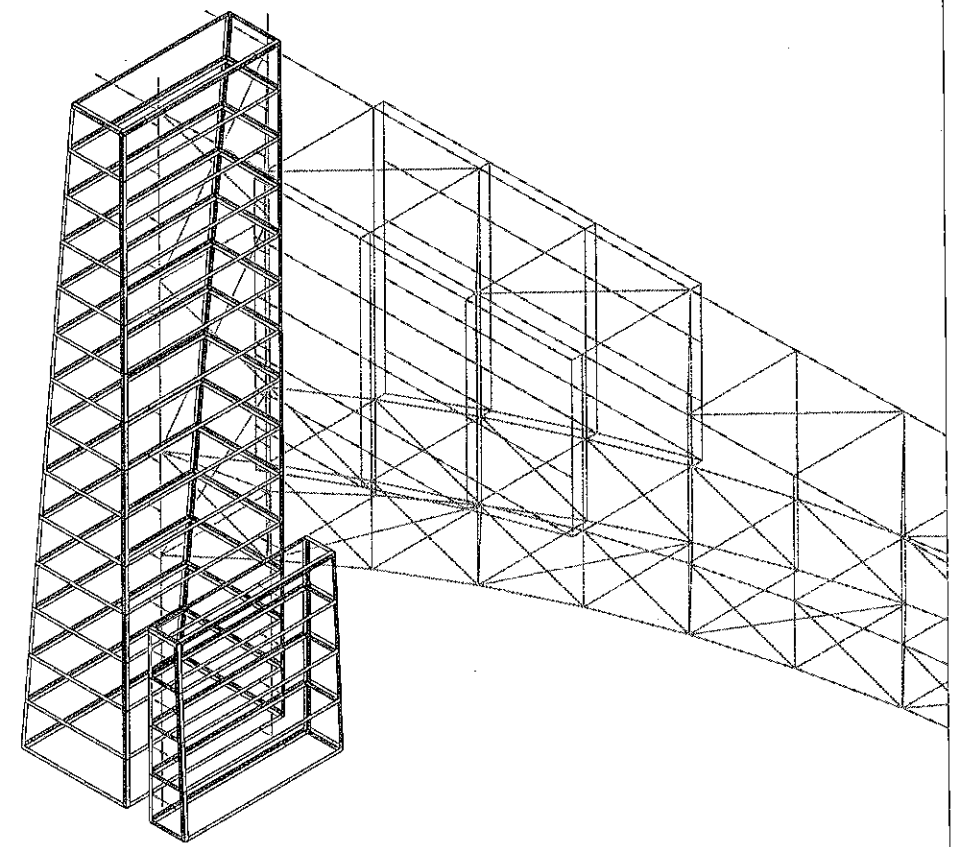
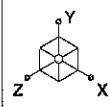
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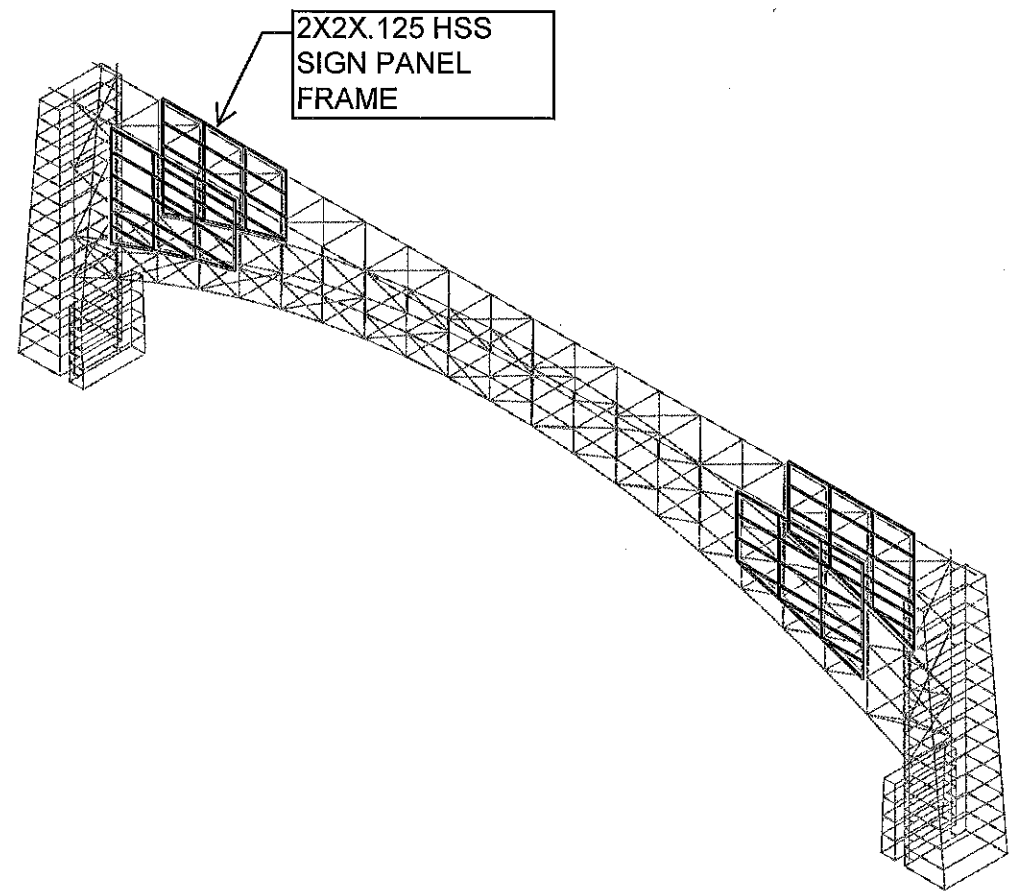
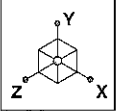
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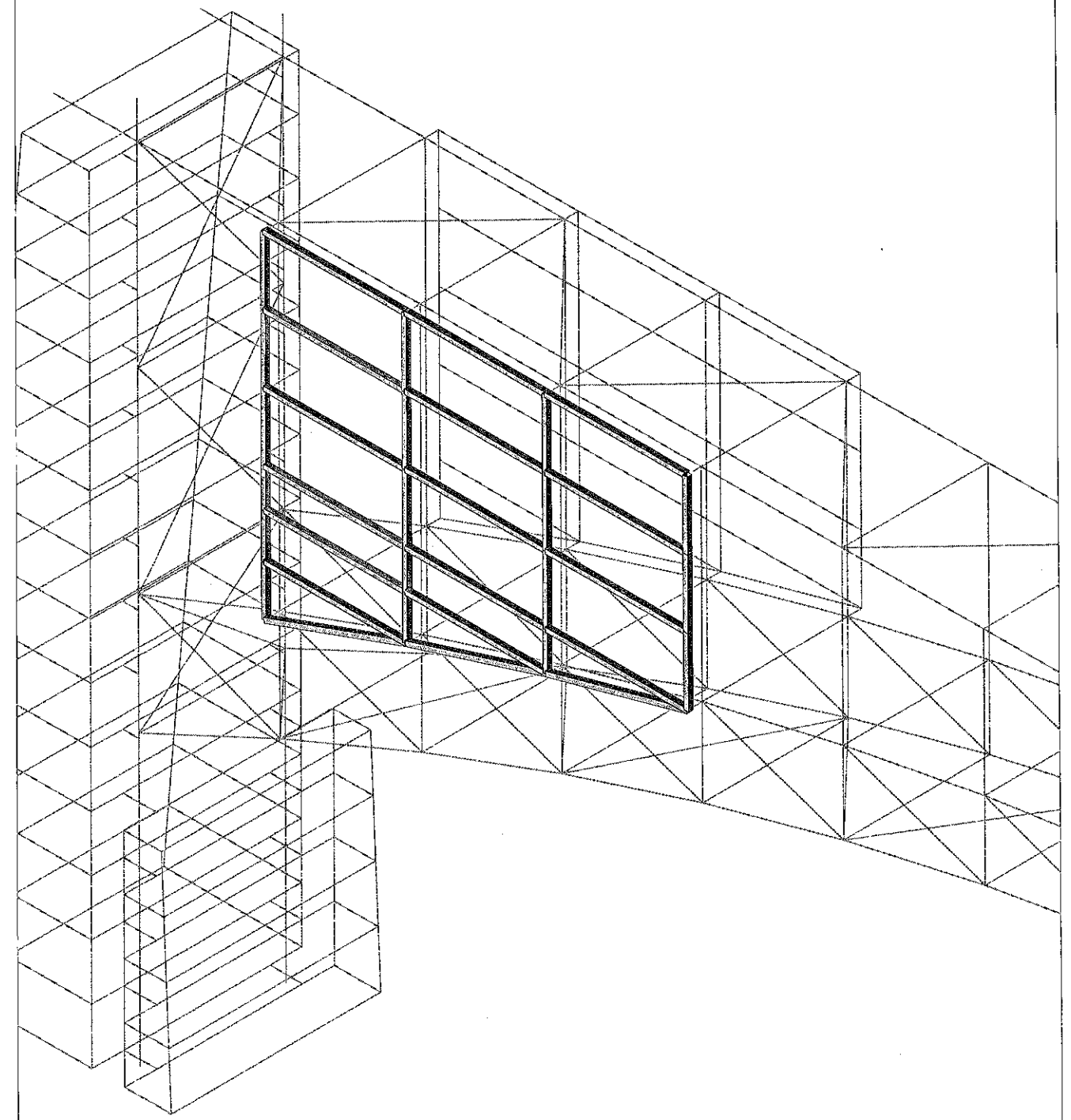
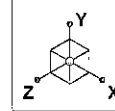
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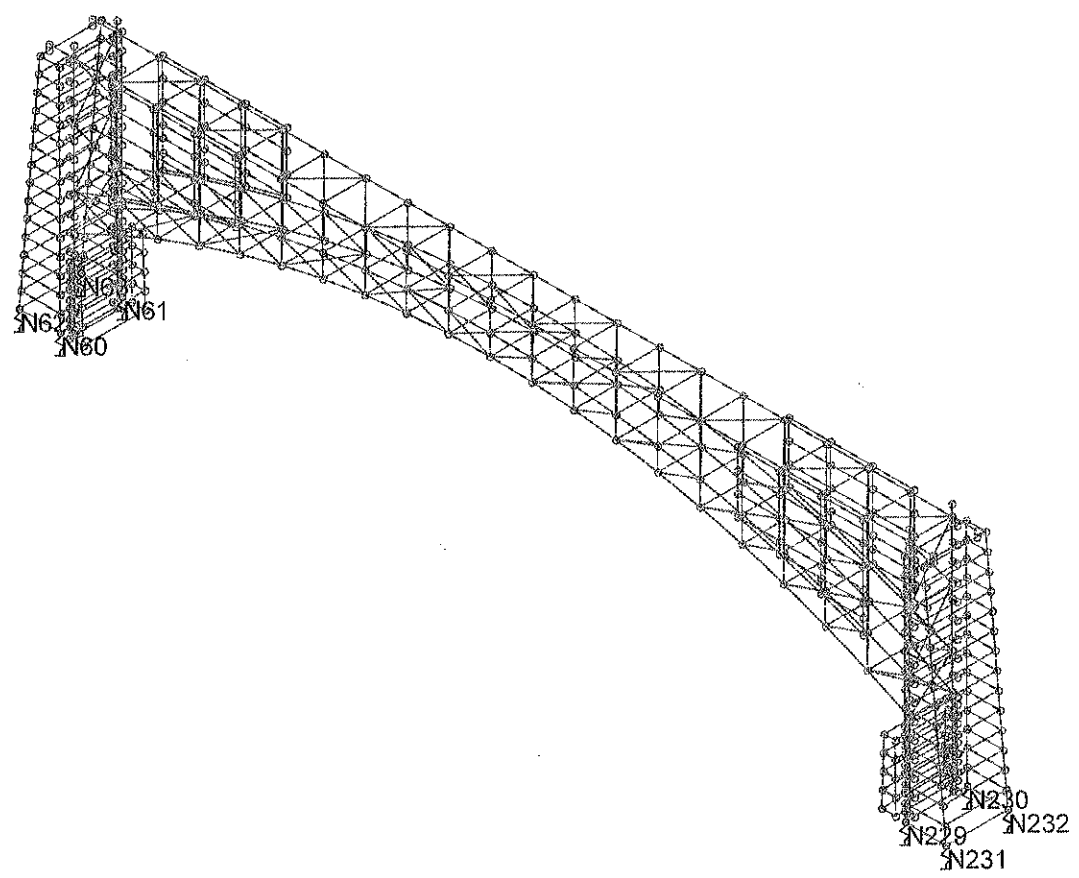
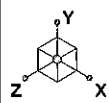
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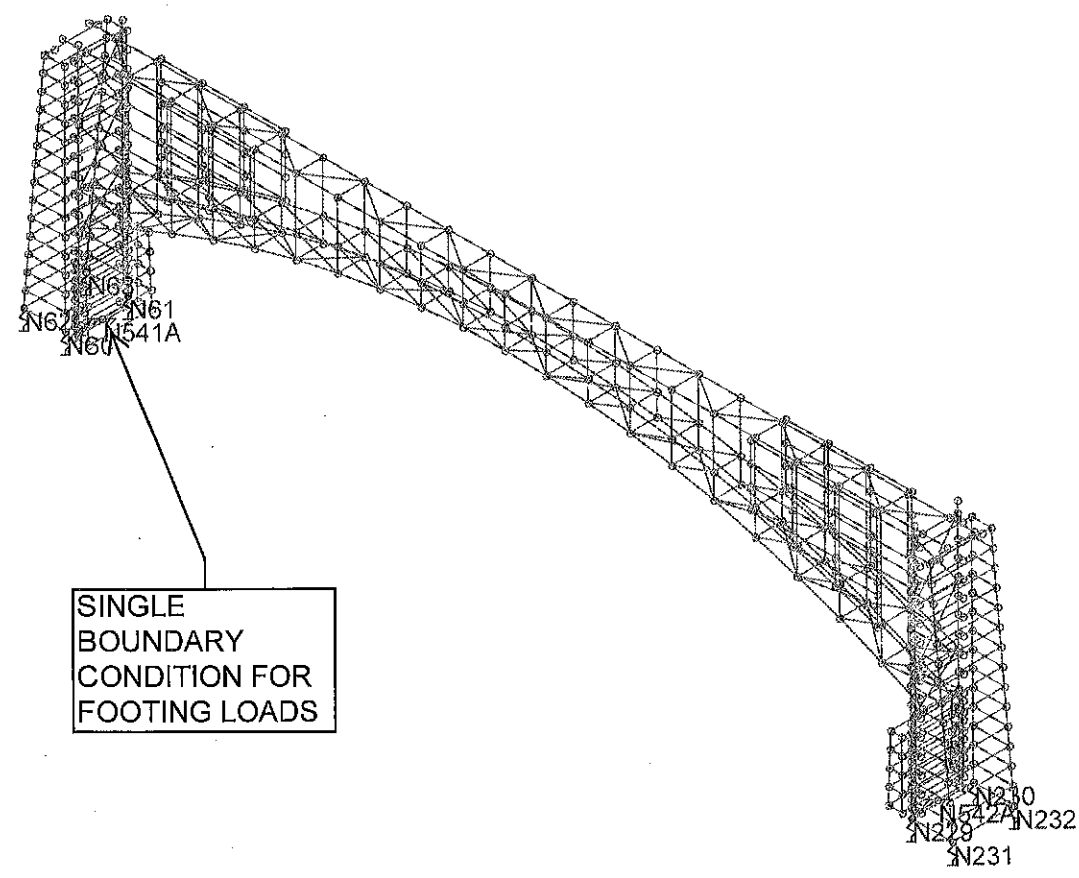
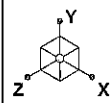
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Envelope Only Solution

**Hot Rolled Steel Properties**

Label	E [ksi]	G [ksi]	Nu	Therm (1E...	Density[k/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt	
1	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	.3	.65	.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3

**Hot Rolled Steel Section Sets**

Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]	
1	8X8X.25 HSS	HSS8x8x4	Beam	SquareTube	A500 Gr.B Rect	Typical	7.1	70.7	70.7	111
2	6X6X.25 HSS	HSS6x6x4	Beam	SquareTube	A500 Gr.B Rect	Typical	5.24	28.6	28.6	45.6
3	4X4X.1875 HSS	HSS4x4x3	Beam	SquareTube	A500 Gr.B Rect	Typical	2.58	6.21	6.21	10
4	12X12X.375 TUBE	HSS12x12x6	Beam	SquareTube	A500 Gr.B Rect	Typical	16	357	357	561
5	L2X2X.1875	L2x2x3	Beam	Single Angle	A36 Gr.36	Typical	.722	.271	.271	.009
6	2X2X.188 HSS	HSS2x2x3	Beam	SquareTube	A500 Gr.B Rect	Typical	1.19	.641	.641	1.09
7	12X8X.25 HSS	HSS12x8x4	Beam	SquareTube	A500 Gr.B Rect	Typical	8.96	98.8	184	202

**Basic Load Cases**

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(...
1	D	DL		-1			180	
2	W	WL					200	104
3	F	None					200	104
4	BLC 1 Transient Ar...	None					690	
5	BLC 2 Transient Ar...	None					417	
6	BLC 3 Transient Ar...	None					417	

**Load Combinations**

Description	So...	PDelta	S...	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.
1	D	Yes	Y	1	1									
2	W	Yes	Y	2	1									
3	F	Yes	Y	3	1									
4	1.25D	Yes	Y	1	1.25									
5	1.1D+1.0W	Yes	Y	1	1.1	2	1							
6	0.9D+1.0W	Yes	Y	1	.9	2	1							
7	1.0D+1.0F	Yes	Y	1	1	3	1							

**Envelope Joint Reactions**

Joint	X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC		
1	N7	max	9.385	4	19.433	4	15.313	5	87.944	2	-.529	1	37.703	2
2		min	-6.456	2	-85.862	2	.316	1	-19.587	4	-47.691	4		
3	N1	max	14.78	5	100.044	5	14.351	2	87.445	5	.769	4	-5.503	3
4		min	.966	3	12.038	3	-.395	4	.14	1	-19.132	2	-80.416	5
5	N170	max	-.966	3	100.034	5	14.351	2	87.446	5	19.132	2	80.417	5
6		min	-14.78	5	12.038	3	-.395	4	.14	1	-.768	4	5.503	3
7	N176	max	6.456	2	19.446	4	15.313	5	87.944	2	19.588	5	47.69	4
8		min	-9.385	4	-85.863	2	.316	1	-.27	4	.53	1	-37.703	2
9	N62	max	0	1	5.006	4	0	1	0	1	0	1	0	1
10		min	0	1	0	2	0	1	0	1	0	1	0	1
11	N63	max	0	1	5.679	5	0	1	0	1	0	1	0	1
12		min	0	1	.176	3	0	1	0	1	0	1	0	1
13	N60	max	0	1	.612	4	0	1	0	1	0	1	0	1

**Envelope Joint Reactions (Continued)**

Joint	X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
14		min	0	1	0	2	0	1	0	1	0	1
15	N61	max	0	1	2.493	5	0	1	0	1	0	1
16		min	0	1	.285	3	0	1	0	1	0	1
17	N230	max	0	1	2.493	5	0	1	0	1	0	1
18		min	0	1	.285	3	0	1	0	1	0	1
19	N232	max	0	1	5.685	5	0	1	0	1	0	1
20		min	0	1	.176	3	0	1	0	1	0	1
21	N231	max	0	1	4.997	4	0	1	0	1	0	1
22		min	0	1	0	2	0	1	0	1	0	1
23	N229	max	0	1	.612	4	0	1	0	1	0	1
24		min	0	1	0	2	0	1	0	1	0	1
25	Totals:	max	0	5	100.282	4	58.553	6				
26		min	0	3	0	3	0	4				

**Envelope AISC 14th(360-10): LRFD Steel Code Checks**

Member	Shape	Code Check	Lo...	LC	Shear...	Lo...	phi*P...	phi*P...	phi*Mn...	phi*Mn...	Eqn.		
1	M1	HSS12x12x6	.827	0	5	.173	0	z 5	662.3	662.4	223.27	223.27	H1-1b
2	M2	HSS12x12x6	.000	0	4	.000	0	y 5	661.8	662.4	223.27	223.27	H1-1b
3	M3	HSS12x12x6	.428	0	5	.177	0	z 5	661.4	662.4	223.27	223.27	H1-1b
4	M4	HSS12x12x6	.072	0	5	.041	0	y 2	661.7	662.4	223.27	223.27	H1-1b
5	M5	HSS12x12x6	.041	0	5	.043	0	y 5	662.35	662.4	223.27	223.27	H1-1b
6	M6	HSS12x12x6	.628	0	2	.180	0	y 5	662.3	662.4	223.27	223.27	H1-1b
7	M7	HSS12x12x6	.000	0	4	.000	0	y 5	661.8	662.4	223.27	223.27	H1-1b
8	M8	HSS12x12x6	.274	0	2	.111	0	y 2	661.4	662.4	223.27	223.27	H1-1b
9	M9	HSS12x12x6	.062	0	2	.043	0	y 5	661.7	662.4	223.27	223.27	H1-1b
10	M10	HSS12x12x6	.036	0	2	.043	0	y 2	662.35	662.4	223.27	223.27	H1-1b
11	M11	HSS8x8x4	.153	0	5	.097	0	y 5	326.7	370.9	73.797	116.951	H1-1b
12	M12	HSS8x8x4	.261	0	5	.218	0	z 5	293.6	293.94	66.288	66.288	H1-1b
13	M13	HSS8x8x4	.532	0	5	.492	0	z 5	293.6	293.94	66.288	66.288	H1-1b
14	M14	HSS8x8x4	.078	63.5	5	.048	0	y 5	286.0	293.94	66.288	66.288	H1-1b
15	M15	HSS4x4x3	.082	53...	5	.004	0	z 2	98.733	106.8	12.662	12.662	H1-1b
16	M16	HSS4x4x3	.078	53...	5	.003	53...	y 5	98.733	106.8	12.662	12.662	H1-1b
17	M17	HSS4x4x3	.243	41...	2	.015	0	y 2	101.9	106.8	12.662	12.662	H1-1a
18	M18	HSS4x4x3	.410	41...	2	.045	0	y 5	101.9	106.8	12.662	12.662	H1-1a
19	M19	HSS4x4x3	.079	53...	2	.010	0	y 5	98.733	106.8	12.662	12.662	H1-1b
20	M20	HSS4x4x3	.076	53...	2	.009	0	y 5	98.733	106.8	12.662	12.662	H1-1b
21	M21	HSS4x4x3	.105	0	5	.008	0	y 2	98.733	106.8	12.662	12.662	H1-1b
22	M22	HSS4x4x3	.103	0	5	.006	0	z 5	98.733	106.8	12.662	12.662	H1-1b
23	M23	HSS4x4x3	.125	0	5	.009	0	y 5	98.733	106.8	12.662	12.662	H1-1b
24	M24	HSS4x4x3	.123	0	5	.003	53...	y 5	98.733	106.8	12.662	12.662	H1-1b
25	M25	HSS4x4x3	.456	0	5	.029	0	y 2	101.9	106.8	12.662	12.662	H1-1a
26	M26	HSS4x4x3	.257	0	5	.019	41...	y 5	101.9	106.8	12.662	12.662	H1-1a
27	M29	HSS12x12x6	.600	0	2	.182	0	y 5	661.2	662.4	223.27	223.27	H1-1b
28	M30	HSS12x12x6	.791	0	5	.175	0	y 2	661.2	662.4	223.27	223.27	H1-1b
29	M31	HSS12x12x6	.409	0	2	.180	0	y 5	661.2	662.4	223.27	223.27	H1-1b
30	M32	HSS12x12x6	.231	0	2	.181	0	y 5	661.2	662.4	223.27	223.27	H1-1b
31	M33	HSS12x12x6	.247	24	2	.182	0	y 5	661.2	662.4	223.27	223.27	H1-1b
32	M34	HSS12x12x6	.420	24	2	.189	0	y 5	661.2	662.4	223.27	223.27	H1-1b
33	M35	HSS12x12x6	.534	0	5	.173	0	y 2	661.2	662.4	223.27	223.27	H1-1b
34	M36	HSS12x12x6	.286	0	5	.173	0	y 2	661.2	662.4	223.27	223.27	H1-1b
35	M37	HSS12x12x6	.363	24	5	.173	0	y 2	661.2	662.4	223.27	223.27	H1-1b
36	M38	HSS12x12x6	.619	24	5	.177	0	y 2	661.2	662.4	223.27	223.27	H1-1b
37	M49	L2x2x3	.471	13...	5	.064	0	z 5	21.904	23.393	.558	1.239	H2-1
38	M50	L2x2x3	.453	0	5	.022	0	y 5	6.121	23.393	.558	1.196	H2-1
39	M51	L2x2x3	.585	0	5	.075	0	y 5	21.904	23.393	.558	1.239	H2-1
40	M52	L2x2x3	.556	13...	4	.080	13...	z 4	21.904	23.393	.558	1.239	H2-1
41	M53	L2x2x3	.420	0	5	.019	0	z 5	6.121	23.393	.558	1.197	H2-1
42	M54	L2x2x3	.697	0	5	.094	0	z 5	21.904	23.393	.558	1.239	H2-1

Envelope AISC 14th(360-10): LRFD Steel Code Checks (Continued)

Member	Shape	Code Check	Lo...	LC	Shear	Lo...	phi*P...	phi*P...	phi*Mn...	phi*Mn...	Egn		
43	M55	L2x2x3	.560	13...	4	.074	13...	z 4	21.904	23.393	.558	1.239	H2-1
44	M56	L2x2x3	.372	0	5	.017	0	z 5	6.121	23.393	.558	1.197	H2-1
45	M57	L2x2x3	.576	0	5	.076	0	z 5	21.904	23.393	.558	1.239	H2-1
46	M58	L2x2x3	.651	13...	5	.075	13...	z 5	21.904	23.393	.558	1.239	H2-1
47	M59	L2x2x3	.244	0	5	.011	0	z 5	6.121	23.393	.558	1.197	H2-1
48	M60	L2x2x3	.482	0	4	.061	0	z 4	21.904	23.393	.558	1.239	H2-1
49	M61	L2x2x3	.856	13...	5	.085	13...	z 5	21.904	23.393	.558	1.239	H2-1
50	M62	L2x2x3	.041	0	5	.002	0	z 5	6.121	23.393	.558	1.203	H2-1
51	M63	L2x2x3	.588	0	2	.066	0	z 2	21.904	23.393	.558	1.239	H2-1
52	M64	L2x2x3	.306	16	4	.056	0	y 4	21.399	23.393	.558	1.239	H2-1
53	M65	L2x2x3	.396	16	5	.058	0	z 5	21.399	23.393	.558	1.239	H2-1
54	M66	L2x2x3	.211	0	4	.023	24...	y 5	19.138	23.393	.558	1.239	H2-1
55	M67	L2x2x3	.292	0	5	.022	0	z 4	19.138	23.393	.558	1.239	H2-1
56	M68	L2x2x3	.705	0	5	.033	0	z 5	2.981	23.393	.558	1.094	H2-1
57	M69	L2x2x3	.354	0	5	.019	0	y 5	2.981	23.393	.558	1.088	H2-1
58	M70	L2x2x3	.207	20	4	.028	0	z 4	20.354	23.393	.558	1.239	H2-1
59	M71	L2x2x3	.219	0	5	.036	0	y 5	20.354	23.393	.558	1.239	H2-1
60	M72	L2x2x3	.285	24	2	.027	24	z 2	19.145	23.393	.558	1.239	H2-1
61	M73	L2x2x3	.218	0	5	.023	0	y 4	19.145	23.393	.558	1.239	H2-1
62	M74	L2x2x3	.233	24	4	.028	0	z 5	19.145	23.393	.558	1.239	H2-1
63	M75	L2x2x3	.259	24	5	.030	0	z 5	19.145	23.393	.558	1.239	H2-1
64	M76	L2x2x3	.382	0	5	.034	0	y 5	19.145	23.393	.558	1.239	H2-1
65	M77	L2x2x3	.216	0	4	.023	0	z 4	19.145	23.393	.558	1.239	H2-1
66	M78	L2x2x3	.279	24	5	.026	0	z 4	19.145	23.393	.558	1.239	H2-1
67	M79	L2x2x3	.322	24	5	.023	0	z 5	19.145	23.393	.558	1.239	H2-1
68	M80	L2x2x3	.222	0	4	.024	0	y 4	19.138	23.393	.558	1.239	H2-1
69	M81	L2x2x3	.223	24...	4	.026	0	z 4	19.138	23.393	.558	1.239	H2-1
70	M82	L2x2x3	.349	24...	4	.038	0	y 4	19.138	23.393	.558	1.239	H2-1
71	M83	L2x2x3	.341	0	5	.030	.25	z 5	19.138	23.393	.558	1.239	H2-1
72	M84	L2x2x3	.298	0	5	.032	2.5	z 5	19.138	23.393	.558	1.239	H2-1
73	M85	L2x2x3	.464	24...	5	.050	.25	z 5	19.138	23.393	.558	1.239	H2-1
74	M86	L2x2x3	.517	0	4	.062	0	z 4	21.155	23.393	.558	1.239	H2-1
75	M87	L2x2x3	.545	18	4	.063	0	z 4	20.899	23.393	.558	1.239	H2-1
76	M88	L2x2x3	.426	19	4	.050	0	z 4	20.632	23.393	.558	1.239	H2-1
77	M89	L2x2x3	.426	19	4	.050	0	y 4	20.632	23.393	.558	1.239	H2-1
78	M90	L2x2x3	.553	18	5	.063	0	y 4	20.899	23.393	.558	1.239	H2-1
79	M91	L2x2x3	.553	17	5	.062	0	y 4	21.155	23.393	.558	1.239	H2-1
80	M92	L2x2x3	.742	0	5	.036	0	y 5	2.981	23.393	.558	1.12	H2-1
81	M93	L2x2x3	.722	0	5	.035	0	y 5	2.981	23.393	.558	1.113	H2-1
82	M94	L2x2x3	.672	0	5	.034	0	y 5	2.981	23.393	.558	1.109	H2-1
83	M95	L2x2x3	.625	13...	5	.088	13...	y 5	21.904	23.393	.558	1.239	H2-1
84	M96	L2x2x3	.037	0	5	.002	0	y 5	6.121	23.393	.558	1.2	H2-1
85	M97	L2x2x3	.670	0	2	.072	0	y 2	21.904	23.393	.558	1.239	H2-1
86	M100	L2x2x3	.504	0	5	.027	60	z 5	6.856	23.393	.558	1.147	H2-1
87	M101	L2x2x3	.355	91	5	.016	0	z 5	2.981	23.393	.558	1.124	H2-1
88	M102	L2x2x3	.383	0	2	.032	0	z 6	6.856	23.393	.558	1.136	H2-1
89	M103	HSS12x12x6	.641	2	5	.178	0	y 2	662.3	662.4	223.27	223.27	H1-1b
90	M104	HSS12x12x6	.433	2	2	.186	0	y 5	662.3	662.4	223.27	223.27	H1-1b
91	M105	HSS12x12x6	.255	0	5	.177	0	z 5	661.2	662.4	223.27	223.27	H1-1b
92	M106	HSS12x12x6	.087	0	5	.179	0	z 5	662.3	662.4	223.27	223.27	H1-1b
93	M107	HSS12x12x6	.168	0	2	.113	0	y 2	661.2	662.4	223.27	223.27	H1-1b
94	M108	HSS12x12x6	.065	0	5	.116	0	y 2	662.3	662.4	223.27	223.27	H1-1b
95	M109	HSS12x12x6	.060	0	5	.042	0	y 2	661.2	662.4	223.27	223.27	H1-1b
96	M110	HSS12x12x6	.052	0	2	.044	0	y 5	661.2	662.4	223.27	223.27	H1-1b
97	M111	HSS12x12x6	.049	0	5	.043	0	y 2	661.2	662.4	223.27	223.27	H1-1b
98	M112	HSS12x12x6	.048	0	5	.044	0	z 2	661.6	662.4	223.27	223.27	H1-1b
99	M113	HSS12x12x6	.041	0	2	.045	0	y 5	661.2	662.4	223.27	223.27	H1-1b
100	M114	HSS12x12x6	.031	0	2	.046	0	y 5	661.6	662.4	223.27	223.27	H1-1b
101	M115	HSS12x12x6	.036	0	5	.043	0	y 5	661.2	662.4	223.27	223.27	H1-1b

Envelope AISC 14th(360-10): LRFD Steel Code Checks (Continued)

Member	Shape	Code Check	Lo...	LC	Shear	Lo...	phi*P...	phi*P...	phi*Mn...	phi*Mn...	Egn		
102	M116	HSS12x12x6	.032	0	2	.043	0	y 2	661.2	662.4	223.27	223.27	H1-1b
103	M117	HSS12x12x6	.029	24	5	.044	0	z 5	661.2	662.4	223.27	223.27	H1-1b
104	M118	HSS12x12x6	.052	24	5	.045	0	z 5	661.2	662.4	223.27	223.27	H1-1b
105	M119	HSS12x12x6	.025	24	2	.043	0	y 2	661.2	662.4	223.27	223.27	H1-1b
106	M120	HSS12x12x6	.043	24	2	.044	0	z 2	661.2	662.4	223.27	223.27	H1-1b
107	M121	HSS12x12x6	.060	8	5	.045	0	y 2	662.2	662.4	223.27	223.27	H1-1b
108	M122	HSS12x12x6	.049	8	2	.047	0	z 5	662.2	662.4	223.27	223.27	H1-1b
109	M123	L2x2x3	.420	0	2	.021	13...	y 4	21.904	23.393	.558	1.239	H2-1
110	M124	L2x2x3	.190	63.5	2	.011	0	y 5	6.121	23.393	.558	1.195	H2-1
111	M125	L2x2x3	.545	13...	5	.030	0	y 2	21.904	23.393	.558	1.239	H2-1
112	M128	L2x2x3	.658	13...	5	.076	0	y 5	21.904	23.393	.558	1.239	H2-1
113	M129	L2x2x3	.267	0	5	.015	0	y 5	6.121	23.393	.558	1.194	H2-1
114	M130	L2x2x3	.649	13...	5	.057	0	y 5	21.904	23.393	.558	1.239	H2-1
115	M133	L2x2x3	.829	13...	5	.098	0	y 5	21.904	23.393	.558	1.239	H2-1
116	M134	L2x2x3	.290	0	5	.015	0	y 5	6.121	23.393	.558	1.192	H2-1
117	M135	L2x2x3	.670	13...	5	.074	0	y 5	21.904	23.393	.558	1.239	H2-1
118	M138	L2x2x3	.718	13...	2	.083	0	y 5	21.904	23.393	.558	1.239	H2-1
119	M139	L2x2x3	.259	0	5	.012	0	y 5	6.121	23.393	.558	1.186	H2-1
120	M140	L2x2x3	.635	0	5	.073	0	y 5	21.904	23.393	.558	1.239	H2-1
121	M143	L2x2x3	.421	13...	5	.048	0	y 2	21.904	23.393	.558	1.239	H2-1
122	M144	L2x2x3	.167	0	5	.006	0	y 5	6.121	23.393	.558	1.151	H2-1
123	M145	L2x2x3	.553	13...	5	.056	0	y 5	21.904	23.393	.558	1.239	H2-1
124	M148	L2x2x3	.404	13...	5	.038	13...	y 4	21.904	23.393	.558	1.239	H2-1
125	M149	L2x2x3	.083	0	5	.002	0	z 5	6.121	23.393	.558	1.143	H2-1
126	M150	L2x2x3	.453	13...	5	.040	0	y 5	21.904	23.393	.558	1.239	H2-1
127	M153	L2x2x3	.360	13...	5	.046	13...	y 4	21.904	23.393	.558	1.239	H2-1
128	M154	L2x2x3	.069	0	5	.002	0	y 5	6.121	23.393	.558	1.238	H2-1
129	M155	L2x2x3	.441	13...	5	.046	0	y 4	21.904	23.393	.558	1.239	H2-1
130	M158	L2x2x3	.336	13...	4	.047	13...	y 4	21.904	23.393	.558	1.239	H2-1
131	M159	L2x2x3	.075	0	5	.002	0	y 5	6.121	23.393	.558	1.231	H2-1
132	M160	L2x2x3	.441	13...	5	.048	0	y 5	21.904	23.393	.558	1.239	H2-1
133	M163	L2x2x3	.335	13...	4	.047	13...	y 4	21.904	23.393	.558	1.239	H2-1
134	M164	L2x2x3	.060	0	5	.003	0	y 5	6.121	23.393	.558	1.22	H2-1
135	M165	L2x2x3	.436	13...	5	.055	0	y 5	21.904	23.393	.558	1.239	H2-1
136	M168	L2x2x3	.335	13...	4	.047	13...	y 4	21.904	23.393	.558	1.239	H2-1
137	M169	L2x2x3	.053	0	5	.003	0	y 5	6.121	23.393	.558	1.219	H2-1
138	M170	L2x2x3	.442	0	5	.059	0	y 5	21.904	23.393	.558	1.239	H2-1
139	M173	L2x2x3	.344	13...	4	.051	13...	y 4	21.904	23.393	.558	1.239	H2-1
140	M174	L2x2x3	.048	0	5	.003	0	y 5	6.121	23.393	.558	1.227	H2-1

Envelope AISC 14th(360-10): LRFD Steel Code Checks (Continued)

Member	Shape	Code Check	Lo...	LC	Shear ...	Lo...	phi*P...	phi*P...	phi*Mn...	phi*Mn...	Eqn			
161	M203	L2x2x3	271	24	5	021	0	y	2	19.145	23.393	558	1.239	H2-1
162	M204	L2x2x3	206	24	2	018	0	y	2	19.145	23.393	558	1.239	H2-1
163	M205	L2x2x3	195	0	4	018	0	y	4	19.145	23.393	558	1.239	H2-1
164	M206	L2x2x3	189	0	5	020	0	z	5	19.145	23.393	558	1.239	H2-1
165	M207	L2x2x3	180	0	4	018	0	y	4	19.145	23.393	558	1.239	H2-1
166	M208	L2x2x3	190	24	4	018	0	y	4	19.145	23.393	558	1.239	H2-1
167	M209	L2x2x3	196	0	4	018	0	y	4	19.145	23.393	558	1.239	H2-1
168	M210	L2x2x3	232	24	4	020	0	y	4	19.145	23.393	558	1.239	H2-1
169	M211	L2x2x3	255	24	4	023	0	y	4	19.145	23.393	558	1.239	H2-1
170	M212	L2x2x3	294	24	4	025	0	y	4	19.145	23.393	558	1.239	H2-1
171	M213	L2x2x3	387	24	4	028	0	y	4	19.145	23.393	558	1.239	H2-1
172	M216	L2x2x3	527	0	2	039	0	y	2	19.145	23.393	558	1.239	H2-1
173	M217	L2x2x3	344	0	5	028	0	z	5	19.145	23.393	558	1.239	H2-1
174	M218	L2x2x3	280	0	5	028	0	z	5	19.145	23.393	558	1.239	H2-1
175	M219	L2x2x3	255	24	5	028	0	z	5	19.145	23.393	558	1.239	H2-1
176	M220	L2x2x3	269	24	5	027	0	z	5	19.145	23.393	558	1.239	H2-1
177	M221	L2x2x3	279	24	5	026	0	z	5	19.145	23.393	558	1.239	H2-1
178	M222	L2x2x3	284	24	5	024	24	y	2	19.145	23.393	558	1.239	H2-1
179	M223	L2x2x3	287	24	5	025	0	z	5	19.145	23.393	558	1.239	H2-1
180	M224	L2x2x3	294	24	5	027	0	z	5	19.145	23.393	558	1.239	H2-1
181	M225	L2x2x3	297	24	5	028	5	z	5	19.145	23.393	558	1.239	H2-1
182	M226	L2x2x3	317	24	5	027	0	z	5	19.145	23.393	558	1.239	H2-1
183	M227	L2x2x3	347	24	5	032	0	z	5	19.145	23.393	558	1.239	H2-1
184	M228	L2x2x3	385	24	5	033	0	z	5	19.145	23.393	558	1.239	H2-1
185	M229	L2x2x3	504	24	5	040	0	z	5	19.145	23.393	558	1.239	H2-1
186	M230	L2x2x3	688	0	5	026	502	y	5	19.112	23.393	558	1.239	H2-1
187	M231	L2x2x3	645	0	5	029	24...	z	5	19.112	23.393	558	1.239	H2-1
188	M232	L2x2x3	623	0	5	031	0	y	5	19.112	23.393	558	1.239	H2-1
189	M233	L2x2x3	569	0	5	031	4.5	y	5	19.112	23.393	558	1.239	H2-1
190	M234	L2x2x3	488	0	5	027	251	y	5	19.112	23.393	558	1.239	H2-1
191	M235	L2x2x3	432	0	5	025	0	y	5	19.112	23.393	558	1.239	H2-1
192	M236	L2x2x3	397	0	5	024	0	y	5	19.112	23.393	558	1.239	H2-1
193	M237	L2x2x3	373	0	5	024	2.5	y	5	19.112	23.393	558	1.239	H2-1
194	M238	L2x2x3	350	0	5	024	0	y	5	19.112	23.393	558	1.239	H2-1
195	M239	L2x2x3	338	0	5	024	0	y	5	19.112	23.393	558	1.239	H2-1
196	M240	L2x2x3	316	0	5	024	0	y	5	19.112	23.393	558	1.239	H2-1
197	M241	L2x2x3	299	0	5	022	0	y	5	19.112	23.393	558	1.239	H2-1
198	M242	L2x2x3	458	24...	5	052	502	y	4	19.112	23.393	558	1.239	H2-1
199	M243	L2x2x3	555	24...	4	021	753	z	4	19.112	23.393	558	1.239	H2-1
200	M244	L2x2x3	521	24...	4	021	0	z	5	19.112	23.393	558	1.239	H2-1
201	M245	L2x2x3	498	0	4	022	0	z	4	19.112	23.393	558	1.239	H2-1
202	M246	L2x2x3	463	0	4	023	1.2	z	4	19.112	23.393	558	1.239	H2-1
203	M247	L2x2x3	418	0	4	023	24...	z	5	19.112	23.393	558	1.239	H2-1
204	M248	L2x2x3	371	0	4	024	24...	z	5	19.112	23.393	558	1.239	H2-1
205	M249	L2x2x3	337	0	4	025	24...	z	5	19.112	23.393	558	1.239	H2-1
206	M250	L2x2x3	309	0	4	025	24...	z	5	19.112	23.393	558	1.239	H2-1
207	M251	L2x2x3	284	0	4	024	24...	z	5	19.112	23.393	558	1.239	H2-1
208	M252	L2x2x3	263	0	4	026	0	y	5	19.112	23.393	558	1.239	H2-1
209	M253	L2x2x3	246	0	4	026	0	y	5	19.112	23.393	558	1.239	H2-1
210	M254	L2x2x3	334	24...	5	032	0	y	5	19.112	23.393	558	1.239	H2-1
211	M255	L2x2x3	472	24...	4	051	0	z	4	19.112	23.393	558	1.239	H2-1
212	M256	L2x2x3	634	0	4	031	0	z	4	2.981	23.393	558	1.002	H2-1
213	M257	L2x2x3	626	0	4	031	0	z	5	2.981	23.393	558	1.01	H2-1
214	M258	L2x2x3	626	0	4	031	0	z	5	2.981	23.393	558	1.009	H2-1
215	M259	L2x2x3	628	0	4	031	0	z	4	2.981	23.393	558	.997	H2-1
216	M260	L2x2x3	630	0	4	031	0	z	4	2.981	23.393	558	.978	H2-1
217	M261	L2x2x3	634	91	4	031	91	z	4	2.981	23.393	558	.978	H2-1
218	M262	L2x2x3	634	91	4	031	91	z	4	2.981	23.393	558	.976	H2-1
219	M263	L2x2x3	635	91	4	031	91	z	4	2.981	23.393	558	.976	H2-1

Envelope AISC 14th(360-10): LRFD Steel Code Checks (Continued)

Member	Shape	Code Check	Lo...	LC	Shear ...	Lo...	phi*P...	phi*P...	phi*Mn...	phi*Mn...	Eqn			
220	M264	L2x2x3	636	91	4	031	91	z	4	2.981	23.393	558	.976	H2-1
221	M265	L2x2x3	638	91	4	031	91	z	4	2.981	23.393	558	.976	H2-1
222	M266	L2x2x3	636	91	4	031	91	z	4	2.981	23.393	558	.975	H2-1
223	M267	L2x2x3	637	0	4	031	0	z	4	2.981	23.393	558	.974	H2-1
224	M268	L2x2x3	674	0	4	034	0	z	4	2.981	23.393	558	1.002	H2-1
225	M269	L2x2x3	571	0	4	046	0	z	4	16.667	23.393	558	1.239	H2-1
226	M270	L2x2x3	576	0	4	046	0	z	4	15.858	23.393	558	1.239	H2-1
227	M271	L2x2x3	543	0	4	044	0	z	4	15.036	23.393	558	1.239	H2-1
228	M272	L2x2x3	460	0	4	031	0	z	4	14.208	23.393	558	1.239	H2-1
229	M273	L2x2x3	446	0	4	030	0	z	4	13.381	23.393	558	1.239	H2-1
230	M274	L2x2x3	427	0	4	028	0	z	4	12.558	23.393	558	1.239	H2-1
231	M275	L2x2x3	404	0	4	027	0	z	4	11.746	23.393	558	1.239	H2-1
232	M276	L2x2x3	361	0	4	024	0	z	4	10.949	23.393	558	1.239	H2-1
233	M277	L2x2x3	342	0	4	033	48...	z	5	10.171	23.393	558	1.239	H2-1
234	M278	L2x2x3	321	51...	5	040	51...	z	5	9.417	23.393	558	1.229	H2-1
235	M279	L2x2x3	401	53...	5	044	53...	z	5	8.669	23.393	558	1.213	H2-1
236	M280	L2x2x3	397	55...	5	044	55...	z	5	7.992	23.393	558	1.201	H2-1
237	M281	L2x2x3	453	0	5	039	57...	z	5	7.392	23.393	558	1.181	H2-1
238	M282	L2x2x3	685	0	5	058	0	y	5	16.667	23.393	558	1.239	H2-1
239	M283	L2x2x3	678	0	5	056	0	y	5	15.858	23.393	558	1.239	H2-1
240	M284	L2x2x3	617	0	5	053	0	y	5	15.036	23.393	558	1.239	H2-1
241	M285	L2x2x3	548	0	5	040	0	y	5	14.208	23.393	558	1.239	H2-1
242	M286	L2x2x3	507	0	5	039	0	y	5	13.381	23.393	558	1.239	H2-1
243	M287	L2x2x3	464	0	5	036	0	y	5	12.558	23.393	558	1.239	H2-1
244	M288	L2x2x3	421	0	5	034	0	y	5	11.746	23.393	558	1.239	H2-1
245	M289	L2x2x3	384	0	5	032	0	y	5	10.949	23.393	558	1.239	H2-1
246	M290	L2x2x3	406	0	2	042	0	z	6	10.171	23.393	558	1.192	H2-1
247	M291	L2x2x3	445	0	2	045	0	z	6	9.417	23.393	558	1.2	H2-1
248	M292	L2x2x3	494	0	2	047	0	z	2	8.669	23.393	558	1.2	H2-1
249	M293	L2x2x3	536	0	2	048	0	z	2	7.992	23.393	558	1.193	H2-1
250	M294	L2x2x3	584	0	2	047	0	z	6	7.392	23.393	558	1.183	H2-1
251	M295	HSS12x12x6	827	0	5	173	0	z	5	662.3	662.4	223.27	223.27	H1-1b
252	M296	HSS12x12x6	000	0	4	000	0	y	5	661.8	662.4	223.27	223.27	H1-1b
253	M297	HSS12x12x6	428	0	5	177	0	z	5	661.4	662.4	223.27	223.27	H1-1b
254	M298	HSS12x12x6	072	0	5	041	0	y	2	661.7	662.4	223.27	223.27	H1-1b
255	M299	HSS12x12x6	041	0	5	043	0	y	5	662.35	662			

Envelope AISC 14th(360-10): LRFD Steel Code Checks (Continued)

Member	Shape	Code Check	Lo...	LC	Shear	Lo...	phi*P...	phi*P...	phi*Mn...	phi*Mn...	Eqn			
279	M325	HSS12x12x6	.409	0	2	.180	0	y	5	661.2	662.4	223.27	223.27	H1-1b
280	M326	HSS12x12x6	.231	0	2	.181	0	y	5	661.2	662.4	223.27	223.27	H1-1b
281	M327	HSS12x12x6	.247	24	2	.182	0	y	5	661.2	662.4	223.27	223.27	H1-1b
282	M328	HSS12x12x6	.420	24	2	.189	0	y	5	661.2	662.4	223.27	223.27	H1-1b
283	M329	HSS12x12x6	.534	0	5	.173	0	y	2	661.2	662.4	223.27	223.27	H1-1b
284	M330	HSS12x12x6	.286	0	5	.173	0	y	2	661.2	662.4	223.27	223.27	H1-1b
285	M331	HSS12x12x6	.363	24	5	.173	0	y	2	661.2	662.4	223.27	223.27	H1-1b
286	M332	HSS12x12x6	.619	24	5	.177	0	y	2	661.2	662.4	223.27	223.27	H1-1b
287	M343	L2x2x3	.471	13...	5	.064	0	y	5	21.904	23.393	.558	1.239	H2-1
288	M344	L2x2x3	.453	0	5	.022	0	z	5	6.121	23.393	.558	1.196	H2-1
289	M345	L2x2x3	.585	0	5	.075	0	z	5	21.904	23.393	.558	1.239	H2-1
290	M346	L2x2x3	.556	13...	4	.080	13...	y	4	21.904	23.393	.558	1.239	H2-1
291	M347	L2x2x3	.420	0	5	.019	0	y	5	6.121	23.393	.558	1.197	H2-1
292	M348	L2x2x3	.697	0	5	.094	0	y	5	21.904	23.393	.558	1.239	H2-1
293	M349	L2x2x3	.560	13...	4	.074	13...	y	4	21.904	23.393	.558	1.239	H2-1
294	M350	L2x2x3	.372	0	5	.017	0	y	5	6.121	23.393	.558	1.197	H2-1
295	M351	L2x2x3	.576	0	5	.076	0	y	5	21.904	23.393	.558	1.239	H2-1
296	M352	L2x2x3	.651	13...	5	.075	13...	y	5	21.904	23.393	.558	1.239	H2-1
297	M353	L2x2x3	.244	0	5	.011	0	y	5	6.121	23.393	.558	1.197	H2-1
298	M354	L2x2x3	.482	0	4	.061	0	y	4	21.904	23.393	.558	1.239	H2-1
299	M355	L2x2x3	.856	13...	5	.085	13...	y	5	21.904	23.393	.558	1.239	H2-1
300	M356	L2x2x3	.041	0	5	.002	0	y	5	6.121	23.393	.558	1.203	H2-1
301	M357	L2x2x3	.588	0	2	.066	0	y	2	21.904	23.393	.558	1.239	H2-1
302	M358	L2x2x3	.306	16	4	.056	0	z	4	21.399	23.393	.558	1.239	H2-1
303	M359	L2x2x3	.396	16	5	.058	0	y	5	21.399	23.393	.558	1.239	H2-1
304	M360	L2x2x3	.211	0	4	.023	24...	z	5	19.138	23.393	.558	1.239	H2-1
305	M361	L2x2x3	.292	0	5	.022	0	y	4	19.138	23.393	.558	1.239	H2-1
306	M362	L2x2x3	.705	0	5	.033	0	y	5	2.981	23.393	.558	1.094	H2-1
307	M363	L2x2x3	.354	0	5	.019	0	z	5	2.981	23.393	.558	1.088	H2-1
308	M364	L2x2x3	.207	20	4	.028	0	y	4	20.354	23.393	.558	1.239	H2-1
309	M365	L2x2x3	.219	0	5	.036	0	z	5	20.354	23.393	.558	1.239	H2-1
310	M366	L2x2x3	.285	24	2	.027	24	y	2	19.145	23.393	.558	1.239	H2-1
311	M367	L2x2x3	.218	0	5	.023	0	z	4	19.145	23.393	.558	1.239	H2-1
312	M368	L2x2x3	.233	24	4	.028	0	y	5	19.145	23.393	.558	1.239	H2-1
313	M369	L2x2x3	.259	24	5	.030	0	y	5	19.145	23.393	.558	1.239	H2-1
314	M370	L2x2x3	.382	0	5	.034	0	z	5	19.145	23.393	.558	1.239	H2-1
315	M371	L2x2x3	.216	0	4	.023	0	y	4	19.145	23.393	.558	1.239	H2-1
316	M372	L2x2x3	.279	24	5	.026	0	y	4	19.145	23.393	.558	1.239	H2-1
317	M373	L2x2x3	.322	24	5	.023	0	y	5	19.145	23.393	.558	1.239	H2-1
318	M374	L2x2x3	.222	0	4	.024	25	z	4	19.138	23.393	.558	1.239	H2-1
319	M375	L2x2x3	.223	24...	4	.026	0	y	4	19.138	23.393	.558	1.239	H2-1
320	M376	L2x2x3	.349	24...	4	.038	0	z	4	19.138	23.393	.558	1.239	H2-1
321	M377	L2x2x3	.341	0	5	.030	0	y	5	19.138	23.393	.558	1.239	H2-1
322	M378	L2x2x3	.298	0	5	.032	.751	y	5	19.138	23.393	.558	1.239	H2-1
323	M379	L2x2x3	.464	24...	5	.050	1.5	y	5	19.138	23.393	.558	1.239	H2-1
324	M380	L2x2x3	.517	0	4	.062	0	y	4	21.155	23.393	.558	1.239	H2-1
325	M381	L2x2x3	.545	18	4	.063	0	y	4	20.899	23.393	.558	1.239	H2-1
326	M382	L2x2x3	.426	19	4	.050	0	y	4	20.632	23.393	.558	1.239	H2-1
327	M383	L2x2x3	.426	19	4	.050	0	z	4	20.632	23.393	.558	1.239	H2-1
328	M384	L2x2x3	.553	18	5	.063	0	z	4	20.899	23.393	.558	1.239	H2-1
329	M385	L2x2x3	.553	17	5	.062	0	z	4	21.155	23.393	.558	1.239	H2-1
330	M386	L2x2x3	.742	0	5	.036	0	z	5	2.981	23.393	.558	1.12	H2-1
331	M387	L2x2x3	.722	0	5	.035	0	z	5	2.981	23.393	.558	1.113	H2-1
332	M388	L2x2x3	.672	0	5	.034	0	z	5	2.981	23.393	.558	1.109	H2-1
333	M389	L2x2x3	.626	13...	5	.088	13...	z	5	21.904	23.393	.558	1.239	H2-1
334	M390	L2x2x3	.037	0	5	.002	0	z	5	6.121	23.393	.558	1.2	H2-1
335	M391	L2x2x3	.670	0	2	.072	0	z	2	21.904	23.393	.558	1.239	H2-1
336	M394	L2x2x3	.504	0	5	.027	60	y	5	6.856	23.393	.558	1.147	H2-1
337	M395	L2x2x3	.355	91	5	.016	0	y	5	2.981	23.393	.558	1.124	H2-1

Envelope AISC 14th(360-10): LRFD Steel Code Checks (Continued)

Member	Shape	Code Check	Lo...	LC	Shear	Lo...	phi*P...	phi*P...	phi*Mn...	phi*Mn...	Eqn			
338	M396	L2x2x3	.383	0	2	.032	0	y	6	6.856	23.393	.558	1.136	H2-1
339	M397	HSS12x12x6	.641	2	5	.178	0	y	2	662.3	662.4	223.27	223.27	H1-1b
340	M398	HSS12x12x6	.433	2	2	.186	0	y	5	662.3	662.4	223.27	223.27	H1-1b
341	M399	HSS12x12x6	.255	0	5	.177	0	z	5	661.2	662.4	223.27	223.27	H1-1b
342	M400	HSS12x12x6	.087	0	5	.179	0	z	5	662.3	662.4	223.27	223.27	H1-...
343	M401	HSS12x12x6	.168	0	2	.113	0	y	2	661.2	662.4	223.27	223.27	H1-1b
344	M402	HSS12x12x6	.065	0	5	.116	0	y	2	662.3	662.4	223.27	223.27	H1-1b
345	M403	HSS12x12x6	.060	0	5	.042	0	y	2	661.2	662.4	223.27	223.27	H1-1b
346	M404	HSS12x12x6	.052	0	2	.044	0	y	5	661.2	662.4	223.27	223.27	H1-1b
347	M405	HSS12x12x6	.049	0	5	.043	0	y	2	661.2	662.4	223.27	223.27	H1-...
348	M406	HSS12x12x6	.048	0	5	.044	0	z	2	661.6	662.4	223.27	223.27	H1-...
349	M407	HSS12x12x6	.041	0	2	.045	0	y	5	661.2	662.4	223.27	223.27	H1-1b
350	M408	HSS12x12x6	.031	0	2	.046	0	y	5	661.6	662.4	223.27	223.27	H1-1b
351	M409	HSS12x12x6	.036	0	5	.043	0	y	5	661.2	662.4	223.27	223.27	H1-1b
352	M410	HSS12x12x6	.032	0	2	.043	0	y	2	661.2	662.4	223.27	223.27	H1-1b
353	M411	HSS12x12x6	.029	24	5	.044	0	z	5	661.2	662.4	223.27	223.27	H1-1b
354	M412	HSS12x12x6	.052	24	5	.045	0	z	5	661.2	662.4	223.27	223.27	H1-1b
355	M413	HSS12x12x6	.025	24	2	.043	0	y	2	661.2	662.4	223.27	223.27	H1-1b
356	M414	HSS12x12x6	.043	24	2	.044	0	z	2	661.2	662.4	223.27	223.27	H1-1b
357	M415	HSS12x12x6	.060	8	5	.045	0	y	2	662.2	662.4	223.27	223.27	H1-1b
358	M416	HSS12x12x6	.049	8	2	.047	0	z	5	662.2	662.4	223.27	223.27	H1-1b
359	M417	L2x2x3	.420	0	2	.021	13...	z	4	21.904	23.393	.558	1.239	H2-1
360	M418	L2x2x3	.190	63.5	2	.011	0	z	5	6.121	23.393	.558	1.195	H2-1
361	M419	L2x2x3	.545	13...	5	.030	0	z	2	21.904	23.393	.558	1.239	H2-1
362	M422	L2x2x3	.658	13...	5	.076	0	z	5	21.904	23.393	.558	1.239	H2-1
363	M423	L2x2x3	.267	0	5	.015	0	z	5	6.121	23.393	.558	1.194	H2-1
364	M424	L2x2x3	.649	13...	5	.057	0	z	5	21.904	23.393	.558	1.239	H2-1
365	M427	L2x2x3	.829	13...	5	.098	0	z	5	21.904	23.393	.558	1.239	H2-1
366	M428	L2x2x3	.290	0	5	.015	0	z	5	6.121	23.393	.558	1.192	H2-1
367	M429	L2x2x3	.670	13...	5	.074	0	z	5	21.904	23.393	.558	1.239	H2-1
368	M432	L2x2x3	.718	13...	2	.083	0	z	5	21.904	23.393	.558	1.239	H2-1
369	M433	L2x2x3	.259	0	5	.012	0	z	5	6.121	23.393	.558	1.186	H2-1
370	M434	L2x2x3	.635	0	5	.073	0	z	5	21.904	23.393	.558	1.239	H2-1
371	M437	L2x2x3	.421	13...	5	.048	0	z	2	21.904	23.393	.558	1.239	H2-1
372	M438	L2x2x3	.167	0	5	.006	0	z	5	6.121				

Envelope AISC 14th(360-10): LRFD Steel Code Checks (Continued)

Member	Shape	Code Check	Lo...	LC	Shear	Lo...	phi*P...	phi*P...	phi*Mn...	phi*Mn...	Egn			
397	M479	L2x2x3	519	0	5	0.75	0	z	5	21.904	23.393	.558	1.239	H2-1
398	M482	L2x2x3	492	13...	4	0.75	0	z	4	21.904	23.393	.558	1.239	H2-1
399	M483	L2x2x3	208	63.5	4	0.19	63.5	y	4	6.121	23.393	.558	1.204	H2-1
400	M484	L2x2x3	735	0	5	0.97	0	z	5	21.904	23.393	.558	1.239	H2-1
401	M487	L2x2x3	657	0	4	0.38	0	z	4	21.904	23.393	.558	1.239	H2-1
402	M488	L2x2x3	511	30...	4	0.32	0	z	4	6.121	23.393	.558	1.032	H2-1
403	M489	L2x2x3	627	13...	4	0.33	13...	y	4	21.904	23.393	.558	1.239	H2-1
404	M490	L2x2x3	389	0	4	0.49	0	z	4	17.459	23.393	.558	1.239	H2-1
405	M491	L2x2x3	540	0	5	0.49	0	y	5	17.459	23.393	.558	1.239	H2-1
406	M492	L2x2x3	658	0	5	0.27	251	z	5	19.112	23.393	.558	1.239	H2-1
407	M493	L2x2x3	568	24...	4	0.26	0	y	4	19.112	23.393	.558	1.239	H2-1
408	M494	L2x2x3	542	0	5	0.36	0	y	5	19.145	23.393	.558	1.239	H2-1
409	M495	L2x2x3	344	0	2	0.17	0	z	2	19.145	23.393	.558	1.239	H2-1
410	M496	L2x2x3	269	0	5	0.21	0	z	2	19.145	23.393	.558	1.239	H2-1
411	M497	L2x2x3	271	24	5	0.21	0	z	2	19.145	23.393	.558	1.239	H2-1
412	M498	L2x2x3	206	24	2	0.18	0	z	2	19.145	23.393	.558	1.239	H2-1
413	M499	L2x2x3	195	0	4	0.18	0	z	4	19.145	23.393	.558	1.239	H2-1
414	M500	L2x2x3	189	0	5	0.20	0	y	5	19.145	23.393	.558	1.239	H2-1
415	M501	L2x2x3	180	0	4	0.18	0	z	4	19.145	23.393	.558	1.239	H2-1
416	M502	L2x2x3	190	24	4	0.18	0	z	4	19.145	23.393	.558	1.239	H2-1
417	M503	L2x2x3	196	0	4	0.18	0	z	4	19.145	23.393	.558	1.239	H2-1
418	M504	L2x2x3	232	24	4	0.20	0	z	4	19.145	23.393	.558	1.239	H2-1
419	M505	L2x2x3	256	24	4	0.23	0	z	4	19.145	23.393	.558	1.239	H2-1
420	M506	L2x2x3	292	24	4	0.25	0	z	4	19.145	23.393	.558	1.239	H2-1
421	M507	L2x2x3	385	24	4	0.28	0	z	4	19.145	23.393	.558	1.239	H2-1
422	M510	L2x2x3	527	0	2	0.39	0	z	2	19.145	23.393	.558	1.239	H2-1
423	M511	L2x2x3	344	0	5	0.28	0	y	5	19.145	23.393	.558	1.239	H2-1
424	M512	L2x2x3	280	0	5	0.28	0	y	5	19.145	23.393	.558	1.239	H2-1
425	M513	L2x2x3	254	24	5	0.28	0	y	5	19.145	23.393	.558	1.239	H2-1
426	M514	L2x2x3	269	24	5	0.27	0	y	5	19.145	23.393	.558	1.239	H2-1
427	M515	L2x2x3	279	24	5	0.26	0	y	5	19.145	23.393	.558	1.239	H2-1
428	M516	L2x2x3	284	24	5	0.24	24	z	2	19.145	23.393	.558	1.239	H2-1
429	M517	L2x2x3	287	24	5	0.25	0	y	5	19.145	23.393	.558	1.239	H2-1
430	M518	L2x2x3	294	24	5	0.27	0	y	5	19.145	23.393	.558	1.239	H2-1
431	M519	L2x2x3	297	24	5	0.28	0	y	5	19.145	23.393	.558	1.239	H2-1
432	M520	L2x2x3	317	24	5	0.27	1.25	y	5	19.145	23.393	.558	1.239	H2-1
433	M521	L2x2x3	346	24	5	0.32	0	y	5	19.145	23.393	.558	1.239	H2-1
434	M522	L2x2x3	386	24	5	0.33	0	y	5	19.145	23.393	.558	1.239	H2-1
435	M523	L2x2x3	506	24	5	0.40	0	y	5	19.145	23.393	.558	1.239	H2-1
436	M524	L2x2x3	688	0	5	0.26	1.5	z	5	19.112	23.393	.558	1.239	H2-1
437	M525	L2x2x3	645	0	5	0.29	24...	y	5	19.112	23.393	.558	1.239	H2-1
438	M526	L2x2x3	624	0	5	0.31	0	z	5	19.112	23.393	.558	1.239	H2-1
439	M527	L2x2x3	569	0	5	0.31	3.0	z	5	19.112	23.393	.558	1.239	H2-1
440	M528	L2x2x3	488	0	5	0.27	0	z	5	19.112	23.393	.558	1.239	H2-1
441	M529	L2x2x3	432	0	5	0.25	0	z	5	19.112	23.393	.558	1.239	H2-1
442	M530	L2x2x3	398	0	5	0.24	0	z	5	19.112	23.393	.558	1.239	H2-1
443	M531	L2x2x3	373	0	5	0.24	0	z	5	19.112	23.393	.558	1.239	H2-1
444	M532	L2x2x3	350	0	5	0.24	251	z	5	19.112	23.393	.558	1.239	H2-1
445	M533	L2x2x3	339	0	5	0.24	753	z	5	19.112	23.393	.558	1.239	H2-1
446	M534	L2x2x3	317	0	5	0.24	0	z	5	19.112	23.393	.558	1.239	H2-1
447	M535	L2x2x3	298	0	5	0.22	0	z	5	19.112	23.393	.558	1.239	H2-1
448	M536	L2x2x3	479	24...	5	0.51	0	z	4	19.112	23.393	.558	1.239	H2-1
449	M537	L2x2x3	554	24...	4	0.21	1.5	y	4	19.112	23.393	.558	1.239	H2-1
450	M538	L2x2x3	520	24...	4	0.21	0	y	5	19.112	23.393	.558	1.239	H2-1
451	M539	L2x2x3	498	0	4	0.22	0	y	4	19.112	23.393	.558	1.239	H2-1
452	M540	L2x2x3	463	0	4	0.23	0	y	4	19.112	23.393	.558	1.239	H2-1
453	M541	L2x2x3	417	0	4	0.23	24...	y	5	19.112	23.393	.558	1.239	H2-1
454	M542	L2x2x3	370	0	4	0.24	24...	y	5	19.112	23.393	.558	1.239	H2-1
455	M543	L2x2x3	336	0	4	0.25	24...	y	5	19.112	23.393	.558	1.239	H2-1

Envelope AISC 14th(360-10): LRFD Steel Code Checks (Continued)

Member	Shape	Code Check	Lo...	LC	Shear	Lo...	phi*P...	phi*P...	phi*Mn...	phi*Mn...	Egn			
456	M544	L2x2x3	309	0	4	0.25	24...	y	5	19.112	23.393	.558	1.239	H2-1
457	M545	L2x2x3	284	0	4	0.24	24...	y	5	19.112	23.393	.558	1.239	H2-1
458	M546	L2x2x3	262	0	4	0.26	0	z	5	19.112	23.393	.558	1.239	H2-1
459	M547	L2x2x3	246	0	4	0.26	0	z	5	19.112	23.393	.558	1.239	H2-1
460	M548	L2x2x3	328	24...	5	0.31	0	z	5	19.112	23.393	.558	1.239	H2-1
461	M549	L2x2x3	447	24...	4	0.52	1.0	y	4	19.112	23.393	.558	1.239	H2-1
462	M550	L2x2x3	634	0	4	0.31	0	y	4	2.981	23.393	.558	1.002	H2-1
463	M551	L2x2x3	626	0	4	0.31	0	y	5	2.981	23.393	.558	1.01	H2-1
464	M552	L2x2x3	626	0	4	0.31	0	y	5	2.981	23.393	.558	1.009	H2-1
465	M553	L2x2x3	628	0	4	0.31	0	y	4	2.981	23.393	.558	.997	H2-1
466	M554	L2x2x3	630	91	4	0.31	91	y	4	2.981	23.393	.558	.978	H2-1
467	M555	L2x2x3	634	91	4	0.31	91	y	4	2.981	23.393	.558	.978	H2-1
468	M556	L2x2x3	634	91	4	0.31	91	y	4	2.981	23.393	.558	.976	H2-1
469	M557	L2x2x3	635	91	4	0.31	91	y	4	2.981	23.393	.558	.976	H2-1
470	M558	L2x2x3	636	91	4	0.31	91	y	4	2.981	23.393	.558	.976	H2-1
471	M559	L2x2x3	638	91	4	0.31	91	y	4	2.981	23.393	.558	.976	H2-1
472	M560	L2x2x3	636	91	4	0.31	0	y	4	2.981	23.393	.558	.975	H2-1
473	M561	L2x2x3	637	91	4	0.31	91	y	4	2.981	23.393	.558	.974	H2-1
474	M562	L2x2x3	674	91	4	0.34	91	y	4	2.981	23.393	.558	1.002	H2-1
475	M563	L2x2x3	569	0	4	0.46	0	y	4	16.667	23.393	.558	1.239	H2-1
476	M564	L2x2x3	576	0	4	0.46	0	y	4	15.858	23.393	.558	1.239	H2-1
477	M565	L2x2x3	544	0	4	0.44	0	y	4	15.036	23.393	.558	1.239	H2-1
478	M566	L2x2x3	461	0	4	0.31	0	y	4	14.208	23.393	.558	1.239	H2-1
479	M567	L2x2x3	447	0	4	0.30	0	y	4	13.381	23.393	.558	1.239	H2-1
480	M568	L2x2x3	428	0	4	0.28	0	y	4	12.558	23.393	.558	1.239	H2-1
481	M569	L2x2x3	405	0	4	0.27	0	y	4	11.746	23.393	.558	1.239	H2-1
482	M570	L2x2x3	362	0	4	0.24	0	y	4	10.949	23.393	.558	1.239	H2-1
483	M571	L2x2x3	342	0	4	0.33	48...	y	5	10.171	23.393	.558	1.239	H2-1
484	M572	L2x2x3	321	51...	5	0.40	51...	y	5	9.417	23.393	.558	1.229	H2-1
485	M573	L2x2x3	401	53...	5	0.44	53...	y	5	8.669	23.393	.558	1.213	H2-1
486	M574	L2x2x3	397	55...	5	0.43	55...	y	5	7.992	23.393	.558	1.201	H2-1
487	M575	L2x2x3	453	0	5	0.39	57...	y	5	7.392	23.393	.558	1.181	H2-1
488	M576	L2x2x3	687	0	5	0.58	0	z	5	16.667	23.393	.558	1.239	H2-1
489	M577	L2x2x3	678	0	5	0.56	0	z	5	15.858	23.393	.558	1.239	H2-1
490	M578	L2x2x3	616	0	5	0.53	0	z	5	15.036	23.393	.558	1.239	H2-1
491	M579													

Envelope AISC 14th(360-10): LRFD Steel Code Checks (Continued)

Member	Shape	Code Check	Lo...	LC	Shear	Lo...	phi*P...	phi*P...	phi*Mn...	phi*Mn...	Eqn		
515	M606	HSS6x6x4	.094	0	5	027	62...	y 5	206.8..	216.9..	38.64	38.64	H1-1b
516	M607	HSS6x6x4	.120	0	5	025	61...	y 5	207.0..	216.9..	38.64	38.64	H1-1b
517	M608	HSS6x6x4	.131	14...	5	.014	0	y 2	207.0..	216.9..	38.64	38.64	H1-1b
518	M608A	HSS6x6x4	.259	0	5	.010	61...	y 5	207.1..	216.9..	38.64	38.64	H1-1a
519	M611	HSS6x6x4	.068	0	4	.034	0	z 5	205.4..	216.9..	38.64	38.64	H1-...
520	M612	HSS6x6x4	.040	0	4	.032	65...	z 5	205.8..	216.9..	38.64	38.64	H1-1b
521	M613	HSS6x6x4	.072	0	5	.028	0	y 5	206.1..	216.9..	38.64	38.64	H1-...
522	M614	HSS6x6x4	.059	0	2	.032	0	y 5	206.4..	216.9..	38.64	38.64	H1-...
523	M615	HSS6x6x4	.096	0	2	.031	0	y 5	206.6..	216.9..	38.64	38.64	H1-...
524	M616	HSS6x6x4	.102	0	2	.029	0	y 5	206.8..	216.9..	38.64	38.64	H1-...
525	M617	HSS6x6x4	.138	0	2	.024	0	y 5	207.0..	216.9..	38.64	38.64	H1-...
526	M618	HSS6x6x4	.150	0	2	.015	0	y 5	207.0..	216.9..	38.64	38.64	H1-...
527	M619	HSS6x6x4	.179	0	2	.009	0	y 5	207.1..	216.9..	38.64	38.64	H1-...
528	M620	HSS6x6x4	.068	0	4	.034	0	z 5	205.4..	216.9..	38.64	38.64	H1-...
529	M621	HSS6x6x4	.040	0	4	.032	65...	z 5	205.8..	216.9..	38.64	38.64	H1-1b
530	M622	HSS6x6x4	.072	0	5	.028	0	y 5	206.1..	216.9..	38.64	38.64	H1-...
531	M623	HSS6x6x4	.059	0	2	.032	0	y 5	206.4..	216.9..	38.64	38.64	H1-...
532	M624	HSS6x6x4	.096	0	2	.031	0	y 5	206.6..	216.9..	38.64	38.64	H1-...
533	M625	HSS6x6x4	.102	0	2	.029	0	y 5	206.8..	216.9..	38.64	38.64	H1-...
534	M626	HSS6x6x4	.138	0	2	.024	0	y 5	207.0..	216.9..	38.64	38.64	H1-...
535	M627	HSS6x6x4	.150	0	2	.015	0	y 5	207.0..	216.9..	38.64	38.64	H1-...
536	M628	HSS6x6x4	.179	0	2	.009	0	y 5	207.1..	216.9..	38.64	38.64	H1-...
537	M631	HSS4x4x3	.167	0	5	.048	0	y 5	102.1..	106.8..	12.662	12.662	H1-1b
538	M632	HSS4x4x3	.124	40	5	.044	0	y 5	102.1..	106.8..	12.662	12.662	H1-1b
539	M633	HSS4x4x3	.076	0	2	.035	0	y 5	102.1..	106.8..	12.662	12.662	H1-1b
540	M634	HSS4x4x3	.042	40	5	.033	0	z 5	102.1..	106.8..	12.662	12.662	H1-1b
541	M635	HSS4x4x3	.057	0	2	.032	0	z 2	102.1..	106.8..	12.662	12.662	H1-1b
542	M636	HSS4x4x3	.077	40	5	.034	40	y 5	102.1..	106.8..	12.662	12.662	H1-1b
543	M637	HSS4x4x3	.084	0	5	.034	40	y 5	102.1..	106.8..	12.662	12.662	H1-1b
544	M638	HSS4x4x3	.079	40	2	.028	0	y 2	102.1..	106.8..	12.662	12.662	H1-1b
545	M639	HSS4x4x3	.052	40	5	.017	40	y 5	102.1..	106.8..	12.662	12.662	H1-1b
546	M640	HSS4x4x3	.027	0	5	.006	0	y 5	102.1..	106.8..	12.662	12.662	H1-1b
547	M641	HSS4x4x3	.052	40	5	.017	40	y 5	102.1..	106.8..	12.662	12.662	H1-1b
548	M642	HSS4x4x3	.079	40	2	.028	0	y 2	102.1..	106.8..	12.662	12.662	H1-1b
549	M643	HSS4x4x3	.084	0	5	.034	40	y 5	102.1..	106.8..	12.662	12.662	H1-1b
550	M644	HSS4x4x3	.077	40	5	.034	40	y 5	102.1..	106.8..	12.662	12.662	H1-1b
551	M645	HSS4x4x3	.057	0	2	.032	0	z 2	102.1..	106.8..	12.662	12.662	H1-1b
552	M646	HSS4x4x3	.042	40	5	.033	0	z 5	102.1..	106.8..	12.662	12.662	H1-1b
553	M647	HSS4x4x3	.076	0	2	.035	0	y 5	102.1..	106.8..	12.662	12.662	H1-1b
554	M648	HSS4x4x3	.124	40	5	.044	0	y 5	102.1..	106.8..	12.662	12.662	H1-1b
555	M649	HSS4x4x3	.167	0	5	.048	0	y 5	102.1..	106.8..	12.662	12.662	H1-1b
556	M650	HSS8x8x4	.104	61.2	2	.036	0	z 2	286.5..	293.94	66.288	66.288	H1-1b
557	M651	HSS8x8x4	.125	61.2	2	.047	0	y 2	286.5..	293.94	66.288	66.288	H1-1b
558	M652	HSS8x8x4	.164	0	5	.050	0	y 2	286.5..	293.94	66.288	66.288	H1-...
559	M653	HSS8x8x4	.197	0	5	.052	0	y 2	286.5..	293.94	66.288	66.288	H1-...
560	M654	HSS8x8x4	.322	61.2	2	.048	0	y 2	286.5..	293.94	66.288	66.288	H1-1a
561	M655	HSS8x8x4	.316	61.2	2	.045	0	y 2	286.5..	293.94	66.288	66.288	H1-1a
562	M656	HSS8x8x4	.335	61.2	5	.033	0	y 2	286.5..	293.94	66.288	66.288	H1-1a
563	M657	HSS8x8x4	.325	0	5	.021	0	y 2	286.5..	293.94	66.288	66.288	H1-1a
564	M658	HSS8x8x4	.346	61.2	5	.008	0	y 5	286.5..	293.94	66.288	66.288	H1-1a
565	M659	HSS8x8x4	.346	0	5	.008	61.2	y 5	286.5..	293.94	66.288	66.288	H1-1a
566	M660	HSS8x8x4	.325	61.2	5	.021	0	y 2	286.5..	293.94	66.288	66.288	H1-1a
567	M661	HSS8x8x4	.335	0	5	.033	0	y 2	286.5..	293.94	66.288	66.288	H1-1a
568	M662	HSS8x8x4	.316	0	2	.045	0	y 2	286.5..	293.94	66.288	66.288	H1-1a
569	M663	HSS8x8x4	.322	0	2	.048	0	y 2	286.5..	293.94	66.288	66.288	H1-1a
570	M664	HSS8x8x4	.197	0	5	.052	0	y 2	286.5..	293.94	66.288	66.288	H1-...
571	M665	HSS8x8x4	.164	0	5	.050	0	y 2	286.5..	293.94	66.288	66.288	H1-...
572	M666	HSS8x8x4	.125	0	2	.047	0	y 2	286.5..	293.94	66.288	66.288	H1-1b
573	M667	HSS8x8x4	.104	0	2	.036	0	z 2	286.5..	293.94	66.288	66.288	H1-1b

Envelope AISC 14th(360-10): LRFD Steel Code Checks (Continued)

Member	Shape	Code Check	Lo...	LC	Shear	Lo...	phi*P...	phi*P...	phi*Mn...	phi*Mn...	Eqn		
574	M669	HSS8x8x4	.109	61.2	5	.043	0	y 5	286.5..	293.94	66.288	66.288	H1-1b
575	M670	HSS8x8x4	.156	61.2	5	.051	0	y 5	286.5..	293.94	66.288	66.288	H1-1b
576	M671	HSS8x8x4	.144	61.2	5	.060	0	y 5	286.5..	293.94	66.288	66.288	H1-1b
577	M672	HSS8x8x4	.311	61.2	5	.059	0	y 5	286.5..	293.94	66.288	66.288	H1-1a
578	M673	HSS8x8x4	.314	61.2	6	.060	0	y 5	286.5..	293.94	66.288	66.288	H1-1a
579	M674	HSS8x8x4	.340	61.2	5	.052	0	y 5	286.5..	293.94	66.288	66.288	H1-1a
580	M675	HSS8x8x4	.328	61.2	5	.044	0	y 5	286.5..	293.94	66.288	66.288	H1-1a
581	M676	HSS8x8x4	.312	61.2	2	.025	0	y 5	286.5..	293.94	66.288	66.288	H1-1a
582	M677	HSS8x8x4	.288	61.2	2	.007	0	z 5	286.5..	293.94	66.288	66.288	H1-1a
583	M678	HSS8x8x4	.288	0	2	.007	61.2	z 5	286.5..	293.94	66.288	66.288	H1-1a
584	M679	HSS8x8x4	.312	0	2	.025	61.2	y 5	286.5..	293.94	66.288	66.288	H1-1a
585	M680	HSS8x8x4	.328	0	5	.044	61.2	y 5	286.5..	293.94	66.288	66.288	H1-1a
586	M681	HSS8x8x4	.340	0	5	.052	61.2	y 5	286.5..	293.94	66.288	66.288	H1-1a
587	M682	HSS8x8x4	.314	0	6	.060	61.2	y 5	286.5..	293.94	66.288	66.288	H1-1a
588	M683	HSS8x8x4	.311	0	5	.059	61.2	y 5	286.5..	293.94	66.288	66.288	H1-1a
589	M684	HSS8x8x4	.144	0	5	.060	61.2	y 5	286.5..	293.94	66.288	66.288	H1-1b
590	M685	HSS8x8x4	.156	0	5	.051	61.2	y 5	286.5..	293.94	66.288	66.288	H1-1b
591	M686	HSS8x8x4	.109	61.2	5	.043	61.2	y 5	286.5..	293.94	66.288	66.288	H1-1b
592	M688	HSS6x6x4	.122	0	5	.044	0	z 2	205.9..	216.9..	38.64	38.64	H1-1b
593	M689	HSS6x6x4	.100	64...	5	.037	0	y 5	206.2..	216.9..	38.64	38.64	H1-1b
594	M690	HSS6x6x4	.100	63...	5	.037	0	y 5	206.4..	216.9..	38.64	38.64	H1-1b
595	M691	HSS6x6x4	.125	62...	5	.045	0	y 5	206.6..	216.9..	38.64	38.64	H1-1b
596	M692	HSS6x6x4	.136	62...	5	.046	0	y 5	206.8..	216.9..	38.64	38.64	H1-1b
597	M693	HSS6x6x4	.142	61...	5	.041	0	y 5	206.9..	216.9..	38.64	38.64	H1-1b
598	M694	HSS6x6x4	.131	61...	5	.034	0	y 5	207.0..	216.9..	38.64	38.64	H1-1b
599	M695	HSS6x6x4	.108	61...	5	.018	0	y 5	207.1..	216.9..	38.64	38.64	H1-1b
600	M696	HSS6x6x4	.086	61...	2	.007	61...	y 5	207.1..	216.9..	38.64	38.64	H1-1b
601	M697	HSS6x6x4	.122	0	5	.044	0	z 2	205.9..	216.9..	38.64	38.64	H1-1b
602	M698	HSS6x6x4	.100	64...	5	.037	0	y 5	206.2..	216.9..	38.64	38.64	H1-1b
603	M699	HSS6x6x4	.100	63...	5	.037	0	y 5	206.4..	216.9..	38.64	38.64	H1-1b
604	M700	HSS6x6x4	.125	62...	5	.045	0	y 5	206.6..	216.9..	38.64	38.64	H1-1b
605	M701	HSS6x6x4	.136	62...	5	.046	0	y 5	206.8..	216.9..	38.64	38.64	H1-1b
606	M702	HSS6x6x4	.142	61...	5	.041	0	y 5	206.9..	216.9..	38.64	38.64	H1-1b
607	M703	HSS6x6x4	.131	61...	5	.034	0	y 5	207.0..	216.9..	38.64	38.64	H1-1b
608	M704	HSS6x6x4	.108	61...	5	.018	0	y 5	207.1..	216.9..	38.64	38.64	H

Envelope AISC 14th(360-10): LRFD Steel Code Checks (Continued)

Member	Shape	Code Check	Lo...	LC	Shear...	Lo...	phi*P...	phi*P...	phi*Mn...	phi*Mn...	Eqn			
633	M733	HSS4x4x3	107	40	5	.028	40	y	5	102.1...	106.8...	12.662	12.662	H1-1b
634	M734	HSS4x4x3	106	0	5	.025	40	y	5	102.1...	106.8...	12.662	12.662	H1-1b
635	M735	HSS4x4x3	100	40	2	.022	40	y	5	102.1...	106.8...	12.662	12.662	H1-1b
636	M736	HSS4x4x3	079	40	5	.024	40	y	5	102.1...	106.8...	12.662	12.662	H1-1b
637	M737	HSS4x4x3	016	40	2	.004	0	y	2	102.1...	106.8...	12.662	12.662	H1-1b
638	M738	HSS4x4x3	079	40	5	.024	40	y	5	102.1...	106.8...	12.662	12.662	H1-1b
639	M739	HSS4x4x3	100	40	2	.022	40	y	5	102.1...	106.8...	12.662	12.662	H1-1b
640	M740	HSS4x4x3	106	0	5	.025	40	y	5	102.1...	106.8...	12.662	12.662	H1-1b
641	M741	HSS4x4x3	107	40	5	.028	40	y	5	102.1...	106.8...	12.662	12.662	H1-1b
642	M742	HSS4x4x3	115	0	5	.029	40	y	5	102.1...	106.8...	12.662	12.662	H1-1b
643	M743	HSS4x4x3	173	40	5	.034	40	y	5	102.1...	106.8...	12.662	12.662	H1-1b
644	M744	HSS4x4x3	151	0	5	.038	40	y	5	102.1...	106.8...	12.662	12.662	H1-1b
645	M745	HSS4x4x3	149	40	5	.035	0	z	5	102.1...	106.8...	12.662	12.662	H1-1b
646	M746	HSS4x4x3	109	0	5	.039	0	z	5	102.1...	106.8...	12.662	12.662	H1-1b
647	M748	HSS4x4x3	136	0	5	.009	0	y	5	91.99	106.8...	12.662	12.662	H1-1b
648	M749	HSS4x4x3	176	0	5	.012	0	y	2	91.99	106.8...	12.662	12.662	H1-1b
649	M750	HSS4x4x3	129	0	5	.018	0	y	5	91.99	106.8...	12.662	12.662	H1-1b
650	M751	HSS4x4x3	124	0	2	.015	0	y	2	91.99	106.8...	12.662	12.662	H1-1b
651	M752	HSS4x4x3	096	0	5	.018	0	y	5	91.99	106.8...	12.662	12.662	H1-1b
652	M753	HSS4x4x3	085	0	2	.013	0	y	2	91.99	106.8...	12.662	12.662	H1-1b
653	M754	HSS4x4x3	073	0	5	.015	0	y	5	91.99	106.8...	12.662	12.662	H1-1b
654	M755	HSS4x4x3	060	0	5	.009	0	y	2	91.99	106.8...	12.662	12.662	H1-1b
655	M756	HSS4x4x3	035	73...	5	.006	0	y	5	91.99	106.8...	12.662	12.662	H1-1b
656	M757	HSS4x4x3	035	0	5	.006	73...	y	5	91.99	106.8...	12.662	12.662	H1-1b
657	M758	HSS4x4x3	060	73...	5	.009	0	y	2	91.99	106.8...	12.662	12.662	H1-1b
658	M759	HSS4x4x3	073	73...	5	.015	73...	y	5	91.99	106.8...	12.662	12.662	H1-1b
659	M760	HSS4x4x3	085	73...	2	.013	0	y	2	91.99	106.8...	12.662	12.662	H1-1b
660	M761	HSS4x4x3	096	73...	5	.018	73...	y	5	91.99	106.8...	12.662	12.662	H1-1b
661	M762	HSS4x4x3	124	73...	2	.015	0	y	2	91.99	106.8...	12.662	12.662	H1-1b
662	M763	HSS4x4x3	129	73...	5	.018	73...	y	5	91.99	106.8...	12.662	12.662	H1-1b
663	M764	HSS4x4x3	176	0	5	.012	0	y	2	91.99	106.8...	12.662	12.662	H1-1b
664	M765	HSS4x4x3	136	73...	5	.009	73...	y	5	91.99	106.8...	12.662	12.662	H1-1b
665	M768	HSS4x4x3	102	77...	2	.012	0	y	2	90.334	106.8...	12.662	12.662	H1-1b
666	M769	HSS4x4x3	105	0	5	.012	0	y	5	90.698	106.8...	12.662	12.662	H1-1b
667	M770	HSS4x4x3	056	0	5	.008	75...	y	5	91.018	106.8...	12.662	12.662	H1-1b
668	M771	HSS4x4x3	063	0	2	.007	0	z	2	91.293	106.8...	12.662	12.662	H1-1b
669	M772	HSS4x4x3	066	0	5	.010	0	y	5	91.523	106.8...	12.662	12.662	H1-1b
670	M773	HSS4x4x3	069	0	2	.008	0	y	2	91.707	106.8...	12.662	12.662	H1-1b
671	M774	HSS4x4x3	073	0	5	.010	0	y	5	91.846	106.8...	12.662	12.662	H1-1b
672	M775	HSS4x4x3	059	0	2	.005	73...	y	5	91.938	106.8...	12.662	12.662	H1-1b
673	M776	HSS4x4x3	037	0	5	.004	73...	y	4	91.984	106.8...	12.662	12.662	H1-1b
674	M777	HSS4x4x3	037	73...	5	.004	0	y	4	91.984	106.8...	12.662	12.662	H1-1b
675	M778	HSS4x4x3	059	73...	2	.005	0	y	5	91.938	106.8...	12.662	12.662	H1-1b
676	M779	HSS4x4x3	073	73...	5	.010	73...	y	5	91.846	106.8...	12.662	12.662	H1-1b
677	M780	HSS4x4x3	069	73...	2	.008	0	y	2	91.707	106.8...	12.662	12.662	H1-1b
678	M781	HSS4x4x3	066	74...	5	.010	74...	y	5	91.523	106.8...	12.662	12.662	H1-1b
679	M782	HSS4x4x3	063	74...	2	.007	0	z	2	91.293	106.8...	12.662	12.662	H1-1b
680	M783	HSS4x4x3	056	75...	5	.008	0	y	5	91.018	106.8...	12.662	12.662	H1-1b
681	M784	HSS4x4x3	105	76...	5	.012	76...	y	5	90.698	106.8...	12.662	12.662	H1-1b
682	M785	HSS4x4x3	102	0	2	.012	0	y	2	90.334	106.8...	12.662	12.662	H1-1b
683	M787	HSS4x4x3	379	0	5	.074	0	z	2	102.1...	106.8...	12.662	12.662	H1-1b
684	M788	HSS4x4x3	353	0	5	.077	0	z	5	102.1...	106.8...	12.662	12.662	H1-1b
685	M789	HSS4x4x3	271	0	5	.072	0	z	5	102.1...	106.8...	12.662	12.662	H1-1b
686	M790	HSS4x4x3	273	40	5	.075	0	z	5	102.1...	106.8...	12.662	12.662	H1-1b
687	M791	HSS4x4x3	264	40	5	.066	0	z	5	102.1...	106.8...	12.662	12.662	H1-1b
688	M792	HSS4x4x3	265	40	5	.060	0	z	5	102.1...	106.8...	12.662	12.662	H1-1b
689	M793	HSS4x4x3	249	40	5	.050	0	z	5	102.1...	106.8...	12.662	12.662	H1-1b
690	M794	HSS4x4x3	208	0	2	.037	0	z	5	102.1...	106.8...	12.662	12.662	H1-1b
691	M795	HSS4x4x3	134	40	5	.020	0	z	2	102.1...	106.8...	12.662	12.662	H1-1b

Envelope AISC 14th(360-10): LRFD Steel Code Checks (Continued)

Member	Shape	Code Check	Lo...	LC	Shear...	Lo...	phi*P...	phi*P...	phi*Mn...	phi*Mn...	Eqn			
692	M796	HSS4x4x3	010	0	5	.003	0	y	5	102.1...	106.8...	12.662	12.662	H1-1b
693	M797	HSS4x4x3	134	40	5	.020	0	z	2	102.1...	106.8...	12.662	12.662	H1-1b
694	M798	HSS4x4x3	208	0	2	.037	0	z	5	102.1...	106.8...	12.662	12.662	H1-1b
695	M799	HSS4x4x3	249	40	5	.050	0	z	5	102.1...	106.8...	12.662	12.662	H1-1b
696	M800	HSS4x4x3	265	40	5	.060	0	z	5	102.1...	106.8...	12.662	12.662	H1-1b
697	M801	HSS4x4x3	264	40	5	.066	0	z	5	102.1...	106.8...	12.662	12.662	H1-1b
698	M802	HSS4x4x3	273	40	5	.075	0	z	5	102.1...	106.8...	12.662	12.662	H1-1b
699	M803	HSS4x4x3	271	0	5	.072	0	z	5	102.1...	106.8...	12.662	12.662	H1-1b
700	M804	HSS4x4x3	353	0	5	.077	0	z	5	102.1...	106.8...	12.662	12.662	H1-1b
701	M805	HSS4x4x3	379	0	5	.074	0	z	2	102.1...	106.8...	12.662	12.662	H1-1b
702	M806	HSS6x6x4	075	0	5	.026	0	z	5	210.9...	216.9...	38.64	38.64	H1-1b
703	M807	HSS6x6x4	061	0	2	.025	0	y	2	167.0...	216.9...	38.64	38.64	H1-1b
704	M808	HSS6x6x4	080	0	5	.020	0	y	5	210.9...	216.9...	38.64	38.64	H1-1b
705	M809	HSS6x6x4	098	0	5	.030	0	y	5	167.0...	216.9...	38.64	38.64	H1-1b
706	M810	HSS6x6x4	065	0	5	.024	0	z	2	211.8...	216.9...	38.64	38.64	H1-1b
707	M811	HSS6x6x4	109	0	2	.035	0	y	2	179.53	216.9...	38.64	38.64	H1-1b
708	M812	HSS6x6x4	060	0	2	.026	0	z	2	211.8...	216.9...	38.64	38.64	H1-1b
709	M813	HSS6x6x4	169	0	5	.040	0	y	5	179.53	216.9...	38.64	38.64	H1-1b
710	M814	HSS6x6x4	071	0	5	.023	0	y	5	212.5...	216.9...	38.64	38.64	H1-1b
711	M815	HSS6x6x4	142	0	2	.044	0	y	2	189.5...	216.9...	38.64	38.64	H1-1b
712	M816	HSS6x6x4	064	40...	5	.020	0	z	5	212.5...	216.9...	38.64	38.64	H1-1b
713	M817	HSS6x6x4	211	0	5	.055	0	y	5	189.5...	216.9...	38.64	38.64	H1-1b
714	M818	HSS6x6x4	060	37...	2	.033	0	y	5	213.1...	216.9...	38.64	38.64	H1-1b
715	M819	HSS6x6x4	148	0	2	.054	0	y	2	197.1...	216.9...	38.64	38.64	H1-1b
716	M820	HSS6x6x4	081	37...	5	.035	0	y	2	213.1...	216.9...	38.64	38.64	H1-1b
717	M821	HSS6x6x4	234	0	5	.069	0	y	5	197.1...	216.9...	38.64	38.64	H1-1b
718	M822	HSS6x6x4	067	35.5	2	.035	0	y	2	213.5...	216.9...	38.64	38.64	H1-1b
719	M823	HSS6x6x4	161	0	2	.059	0	y	2	202.7...	216.9...	38.64	38.64	H1-1b
720	M824	HSS6x6x4	081	35.5	5	.034	0	y	5	213.5...	216.9...	38.64	38.64	H1-1b
721	M825	HSS6x6x4	248	0	5	.079	0	y	5	202.7...	216.9...	38.64	38.64	H1-1b
722	M826	HSS6x6x4	069	33...	2	.036	0	y	2	213.9...	216.9...	38.64	38.64	H1-1b
723	M827	HSS6x6x4	164	0	2	.064	0	y	2	206.7...	216.9...	38.64	38.64	H1-1b
724	M828	HSS6x6x4	094	33...	5	.042	0	y	5	213.9...	216.9...	38.64	38.64	H1-1b
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Envelope AISC 14th(360-10): LRFD Steel Code Checks (Continued)

Member	Shape	Code Check	Lo...	LC	Shear...	Lo...	phi*P...	phi*P...	phi*Mn...	phi*Mn...	Eqn.			
751	M855	HSS6x6x4	.164	0	2	.064	0	y	2	209.4	216.9	38.64	38.64	H1-1b
752	M856	HSS6x6x4	.097	31...	5	.040	0	y	5	214.2	216.9	38.64	38.64	H1-1b
753	M857	HSS6x6x4	.247	0	5	.089	0	y	5	209.4	216.9	38.64	38.64	H1-1b
754	M858	HSS6x6x4	.069	33...	2	.036	0	y	2	213.9	216.9	38.64	38.64	H1-1b
755	M859	HSS6x6x4	.164	0	2	.064	0	y	2	206.7	216.9	38.64	38.64	H1-1b
756	M860	HSS6x6x4	.094	33...	5	.042	0	y	5	213.9	216.9	38.64	38.64	H1-1b
757	M861	HSS6x6x4	.262	0	5	.088	0	y	5	206.7	216.9	38.64	38.64	H1-1b
758	M862	HSS6x6x4	.067	35.5	2	.035	0	y	2	213.5	216.9	38.64	38.64	H1-1b
759	M863	HSS6x6x4	.161	0	2	.059	0	y	2	202.7	216.9	38.64	38.64	H1-1b
760	M864	HSS6x6x4	.081	35.5	5	.034	0	y	5	213.5	216.9	38.64	38.64	H1-1b
761	M865	HSS6x6x4	.248	0	5	.079	0	y	5	202.7	216.9	38.64	38.64	H1-1b
762	M866	HSS6x6x4	.060	37...	2	.033	0	y	5	213.1	216.9	38.64	38.64	H1-1b
763	M867	HSS6x6x4	.148	0	2	.054	0	y	2	197.1	216.9	38.64	38.64	H1-1b
764	M868	HSS6x6x4	.081	37...	5	.035	0	y	2	213.1	216.9	38.64	38.64	H1-1b
765	M869	HSS6x6x4	.234	0	5	.069	0	y	5	197.1	216.9	38.64	38.64	H1-1b
766	M870	HSS6x6x4	.071	0	5	.023	0	y	5	212.5	216.9	38.64	38.64	H1-1b
767	M871	HSS6x6x4	.142	0	2	.044	0	y	2	189.5	216.9	38.64	38.64	H1-1b
768	M872	HSS6x6x4	.064	40...	5	.020	0	z	5	212.5	216.9	38.64	38.64	H1-1b
769	M873	HSS6x6x4	.211	0	5	.055	0	y	5	189.5	216.9	38.64	38.64	H1-1b
770	M874	HSS6x6x4	.065	0	5	.024	0	z	2	211.8	216.9	38.64	38.64	H1-1b
771	M875	HSS6x6x4	.109	0	2	.035	0	y	2	179.53	216.9	38.64	38.64	H1-1b
772	M876	HSS6x6x4	.060	0	2	.026	0	z	2	211.8	216.9	38.64	38.64	H1-1b
773	M877	HSS6x6x4	.169	0	5	.040	0	y	5	179.53	216.9	38.64	38.64	H1-1b
774	M878	HSS6x6x4	.075	0	5	.026	0	z	5	210.9	216.9	38.64	38.64	H1-1b
775	M879	HSS6x6x4	.061	0	2	.025	0	y	2	167.0	216.9	38.64	38.64	H1-1b
776	M880	HSS6x6x4	.080	0	5	.020	0	y	5	210.9	216.9	38.64	38.64	H1-1b
777	M881	HSS6x6x4	.098	0	5	.030	0	y	5	167.0	216.9	38.64	38.64	H1-1b
778	M883	HSS4x4x3	.052	65...	5	.013	0	z	5	94.867	106.8	12.662	12.662	H1-1b
779	M884	HSS4x4x3	.043	43...	5	.011	0	z	5	94.953	106.8	12.662	12.662	H1-1b
780	M885	HSS4x4x3	.042	64...	5	.013	0	z	5	94.987	106.8	12.662	12.662	H1-1b
781	M886	HSS4x4x3	.040	27...	2	.012	0	z	2	94.971	106.8	12.662	12.662	H1-1b
782	M887	HSS4x4x3	.045	59...	2	.014	0	z	5	94.904	106.8	12.662	12.662	H1-1b
783	M888	HSS4x4x3	.046	65...	5	.011	0	z	2	94.783	106.8	12.662	12.662	H1-1b
784	M889	HSS4x4x3	.048	52...	2	.009	0	y	5	94.599	106.8	12.662	12.662	H1-1b
785	M890	HSS4x4x3	.048	37...	2	.006	0	z	2	94.344	106.8	12.662	12.662	H1-1b
786	M891	HSS4x4x3	.054	0	2	.009	67...	z	2	94.005	106.8	12.662	12.662	H1-1b
787	M892	HSS4x4x3	.054	0	2	.009	0	z	2	94.005	106.8	12.662	12.662	H1-1b
788	M893	HSS4x4x3	.048	29...	2	.006	66...	z	2	94.344	106.8	12.662	12.662	H1-1b
789	M894	HSS4x4x3	.048	13...	2	.009	65...	y	5	94.599	106.8	12.662	12.662	H1-1b
790	M895	HSS4x4x3	.046	0	5	.011	65...	z	2	94.783	106.8	12.662	12.662	H1-1b
791	M896	HSS4x4x3	.045	5.42	2	.014	65...	z	5	94.904	106.8	12.662	12.662	H1-1b
792	M897	HSS4x4x3	.040	37...	2	.012	64...	z	2	94.971	106.8	12.662	12.662	H1-1b
793	M898	HSS4x4x3	.042	0	5	.013	64...	z	5	94.987	106.8	12.662	12.662	H1-1b
794	M899	HSS4x4x3	.043	20...	5	.011	64...	z	5	94.953	106.8	12.662	12.662	H1-1b
795	M900	HSS4x4x3	.052	0	5	.013	65...	z	5	94.867	106.8	12.662	12.662	H1-1b
796	M903	HSS4x4x3	.070	65...	5	.012	0	z	5	94.867	106.8	12.662	12.662	H1-1b
797	M904	HSS4x4x3	.055	0	5	.010	0	z	2	94.953	106.8	12.662	12.662	H1-1b
798	M905	HSS4x4x3	.048	64...	5	.013	0	y	5	94.987	106.8	12.662	12.662	H1-1b
799	M906	HSS4x4x3	.058	0	5	.013	0	y	5	94.971	106.8	12.662	12.662	H1-1b
800	M907	HSS4x4x3	.057	65...	5	.014	0	y	5	94.904	106.8	12.662	12.662	H1-1b
801	M908	HSS4x4x3	.058	65...	5	.011	0	z	2	94.783	106.8	12.662	12.662	H1-1b
802	M909	HSS4x4x3	.056	0	5	.009	0	y	5	94.599	106.8	12.662	12.662	H1-1b
803	M910	HSS4x4x3	.053	40...	5	.006	0	z	2	94.344	106.8	12.662	12.662	H1-1b
804	M911	HSS4x4x3	.053	26...	5	.008	67...	z	2	94.005	106.8	12.662	12.662	H1-1b
805	M912	HSS4x4x3	.053	40...	5	.008	0	z	2	94.005	106.8	12.662	12.662	H1-1b
806	M913	HSS4x4x3	.053	26...	5	.006	66...	z	2	94.344	106.8	12.662	12.662	H1-1b
807	M914	HSS4x4x3	.056	65...	5	.009	65...	y	5	94.599	106.8	12.662	12.662	H1-1b
808	M915	HSS4x4x3	.058	0	5	.011	65...	z	2	94.783	106.8	12.662	12.662	H1-1b
809	M916	HSS4x4x3	.057	0	5	.014	65...	y	5	94.904	106.8	12.662	12.662	H1-1b

Envelope AISC 14th(360-10): LRFD Steel Code Checks (Continued)

Member	Shape	Code Check	Lo...	LC	Shear...	Lo...	phi*P...	phi*P...	phi*Mn...	phi*Mn...	Eqn.			
810	M917	HSS4x4x3	.058	64...	5	.013	64...	y	5	94.971	106.8	12.662	12.662	H1-1b
811	M918	HSS4x4x3	.048	0	5	.013	64...	y	5	94.987	106.8	12.662	12.662	H1-1b
812	M919	HSS4x4x3	.055	64...	5	.010	64...	z	2	94.953	106.8	12.662	12.662	H1-1b
813	M920	HSS4x4x3	.070	0	5	.012	65...	z	5	94.867	106.8	12.662	12.662	H1-1b
814	M930	HSS2x2x3	.387	0	2	.038	0	z	6	46.437	49.266	2.75	2.75	H1-1b
815	M931	HSS2x2x3	.175	0	5	.014	0	z	2	30.861	49.266	2.75	2.75	H1-1b
816	M932	HSS2x2x3	.245	61.2	5	.016	0	z	5	30.861	49.266	2.75	2.75	H1-1a
817	M933	HSS2x2x3	.336	61.2	5	.017	0	z	5	30.861	49.266	2.75	2.75	H1-1a
818	M934	HSS2x2x3	.252	0	2	.079	0	z	5	44.238	49.266	2.75	2.75	H1-1b
819	M935	HSS2x2x3	.086	0	5	.016	0	z	2	29.089	49.266	2.75	2.75	H1-1b
820	M936	HSS2x2x3	.132	0	5	.014	0	z	5	29.473	49.266	2.75	2.75	H1-1b
821	M937	HSS2x2x3	.131	0	5	.011	0	z	2	29.812	49.266	2.75	2.75	H1-1b
822	M938	HSS2x2x3	.631	0	5	.129	0	z	5	47.049	49.266	2.75	2.75	H1-1b
823	M939	HSS2x2x3	.549	0	5	.129	0	z	5	47.592	49.266	2.75	2.75	H1-1b
824	M940	HSS2x2x3	.169	0	5	.038	0	z	2	47.049	49.266	2.75	2.75	H1-1b
825	M941	HSS2x2x3	.223	16...	2	.056	0	z	5	47.592	49.266	2.75	2.75	H1-1b
826	M942	HSS2x2x3	.277	0	2	.048	0	y	2	44.238	49.266	2.75	2.75	H1-1b
827	M943	HSS2x2x3	.354	29...	2	.042	0	z	6	44.238	49.266	2.75	2.75	H1-1b
828	M944	HSS2x2x3	.103	61.2	5	.077	61.2	z	5	30.861	49.266	2.75	2.75	H1-1b
829	M945	HSS2x2x3	.225	16...	2	.056	0	z	5	47.592	49.266	2.75	2.75	H1-1b
830	M946	HSS2x2x3	.079	61.2	2	.029	61.2	z	2	30.861	49.266	2.75	2.75	H1-1b
831	M947	HSS2x2x3	.086	61.2	5	.092	61.2	z	5	30.861	49.266	2.75	2.75	H1-1b
832	M948	HSS2x2x3	.379	29...	2	.054	0	z	5	44.238	49.266	2.75	2.75	H1-1b
833	M949	HSS2x2x3	.083	28...	5	.051	53...	z	5	30.861	49.266	2.75	2.75	H1-1b
834	M950	HSS2x2x3	.127	61.2	2	.028	53...	z	5	30.861	49.266	2.75	2.75	H1-1b
835	M951	HSS2x2x3	.088	61.2	2	.066	0	z	5	30.861	49.266	2.75	2.75	H1-1b
836	M952	HSS2x2x3	.292	0	2	.029	29...	z	5	44.238	49.266	2.75	2.75	H1-1b
837	M953	HSS2x2x3	.580	29...	2	.080	29...	z	2	44.238	49.266	2.75	2.75	H1-1b
838	M954	HSS2x2x3	.410	0	2	.060	29...	z	5	44.238	49.266	2.75	2.75	H1-1b
839	M955	HSS2x2x3	.721	29...	2	.086	29...	z	5	44.238	49.266	2.75	2.75	H1-1b
840	M956	HSS2x2x3	.348	0	2	.057	29...	z	5	44.238	49.266	2.75	2.75	H1-1b
841	M957	HSS2x2x3	.560	29...	2	.095	29...	z	5	44.238	49.266	2.75	2.75	H1-1b
842	M958	HSS2x2x3	.174	29...	2	.033	0	y	2	44.238	49.266	2.75	2.75	H

Envelope AISC 14th(360-10): LRFD Steel Code Checks (Continued)

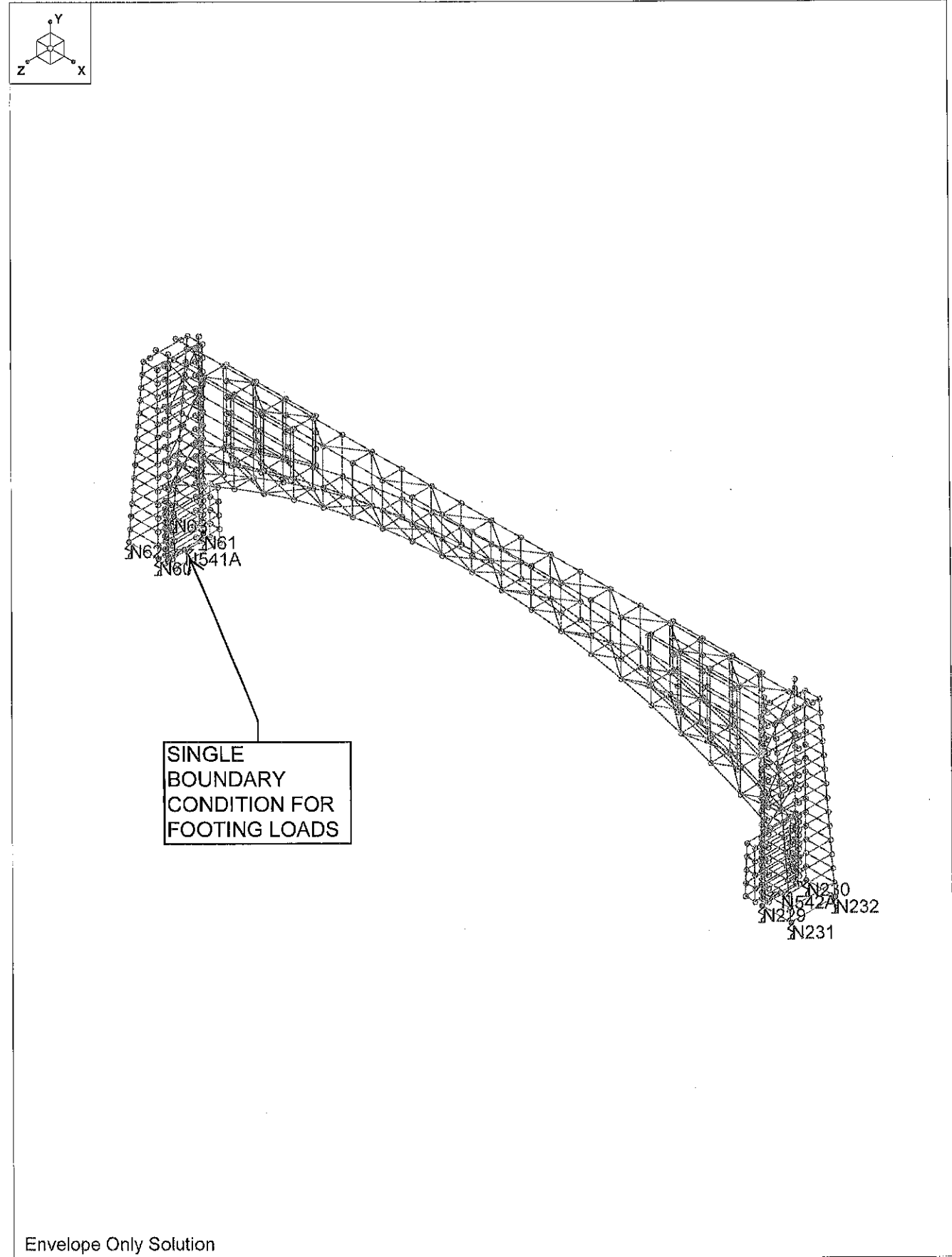
Member	Shape	Code Check	Lo...	LC	Shear	Lo...	phi*P...	phi*P...	phi*Mn...	phi*Mn...	Eqn			
869	M993	HSS2x2x3	.083	33...	5	.050	53...	z	5	30.861	49.266	2.75	2.75	...H1-1b
870	M994	HSS2x2x3	.124	61.2	5	.026	53...	z	2	30.861	49.266	2.75	2.75	...H1-1b
871	M995	HSS2x2x3	.108	0	5	.064	0	z	5	30.861	49.266	2.75	2.75	...H1-1b
872	M996	HSS2x2x3	.315	0	5	.027	29...	z	5	44.238	49.266	2.75	2.75	...H1-1b
873	M997	HSS2x2x3	.612	29...	5	.077	29...	z	5	44.238	49.266	2.75	2.75	...H1-1b
874	M998	HSS2x2x3	.436	0	5	.056	29...	z	5	44.238	49.266	2.75	2.75	...H1-1b
875	M999	HSS2x2x3	.763	29...	5	.082	29...	z	5	44.238	49.266	2.75	2.75	...H1-1b
876	M1000	HSS2x2x3	.380	0	5	.060	0	y	5	44.238	49.266	2.75	2.75	...H1-1b
877	M1001	HSS2x2x3	.596	29...	5	.093	29...	z	5	44.238	49.266	2.75	2.75	...H1-1b
878	M1002	HSS2x2x3	.183	29...	5	.035	0	y	5	44.238	49.266	2.75	2.75	...H1-1b
879	M1003	HSS2x2x3	.227	29...	5	.086	29...	z	2	44.238	49.266	2.75	2.75	...H1-1b
880	M1004	HSS2x2x3	.166	0	5	.045	0	y	5	30.861	49.266	2.75	2.75	...H1-1b
881	M1005	HSS2x2x3	.163	61.2	5	.054	51	z	5	30.861	49.266	2.75	2.75	...H1-1b
882	M1006	HSS2x2x3	.183	0	5	.022	0	y	5	30.861	49.266	2.75	2.75	...H1-1b
883	M1007	HSS2x2x3	.187	0	5	.016	0	y	5	30.861	49.266	2.75	2.75	...H1-1b
884	M1008	HSS2x2x3	.181	0	5	.054	51	z	5	30.861	49.266	2.75	2.75	...H1-1b
885	M1009	HSS2x2x3	.180	0	5	.068	0	z	5	30.861	49.266	2.75	2.75	...H1-1b
886	M1018	HSS2x2x3	.387	0	2	.038	0	z	6	46.437	49.266	2.75	2.75	...H1-1b
887	M1019	HSS2x2x3	.174	0	5	.014	0	z	2	30.861	49.266	2.75	2.75	...H1-1b
888	M1020	HSS2x2x3	.245	61.2	5	.016	0	z	5	30.861	49.266	2.75	2.75	...H1-1a
889	M1021	HSS2x2x3	.336	61.2	5	.017	0	z	5	30.861	49.266	2.75	2.75	...H1-1a
890	M1022	HSS2x2x3	.252	0	2	.079	0	z	5	44.238	49.266	2.75	2.75	...H1-1b
891	M1023	HSS2x2x3	.086	0	5	.016	0	z	2	29.089	49.266	2.75	2.75	...H1-1b
892	M1024	HSS2x2x3	.132	0	5	.014	0	z	5	29.473	49.266	2.75	2.75	...H1-1b
893	M1025	HSS2x2x3	.131	0	5	.011	0	z	2	29.812	49.266	2.75	2.75	...H1-1b
894	M1026	HSS2x2x3	.631	0	5	.129	0	z	5	47.049	49.266	2.75	2.75	...H1-1b
895	M1027	HSS2x2x3	.549	0	5	.129	0	z	5	47.592	49.266	2.75	2.75	...H1-1b
896	M1028	HSS2x2x3	.169	0	5	.038	0	z	2	47.049	49.266	2.75	2.75	...H1-1b
897	M1029	HSS2x2x3	.223	16...	2	.056	0	z	5	47.592	49.266	2.75	2.75	...H1-1b
898	M1030	HSS2x2x3	.277	0	2	.048	0	y	2	44.238	49.266	2.75	2.75	...H1-1b
899	M1031	HSS2x2x3	.354	29...	2	.042	0	z	6	44.238	49.266	2.75	2.75	...H1-1b
900	M1032	HSS2x2x3	.103	61.2	5	.077	61.2	z	5	30.861	49.266	2.75	2.75	...H1-1b
901	M1033	HSS2x2x3	.225	16...	2	.056	0	z	5	47.592	49.266	2.75	2.75	...H1-1b
902	M1034	HSS2x2x3	.079	61.2	2	.029	61.2	z	2	30.861	49.266	2.75	2.75	...H1-1b
903	M1035	HSS2x2x3	.086	61.2	5	.092	61.2	z	5	30.861	49.266	2.75	2.75	...H1-1b
904	M1036	HSS2x2x3	.379	29...	2	.054	0	z	5	44.238	49.266	2.75	2.75	...H1-1b
905	M1037	HSS2x2x3	.083	28...	5	.051	54...	z	5	30.861	49.266	2.75	2.75	...H1-1b
906	M1038	HSS2x2x3	.127	61.2	2	.028	54...	z	5	30.861	49.266	2.75	2.75	...H1-1b
907	M1039	HSS2x2x3	.088	61.2	2	.066	0	z	5	30.861	49.266	2.75	2.75	...H1-1b
908	M1040	HSS2x2x3	.292	0	2	.029	29...	z	5	44.238	49.266	2.75	2.75	...H1-1b
909	M1041	HSS2x2x3	.580	29...	2	.080	29...	z	2	44.238	49.266	2.75	2.75	...H1-1b
910	M1042	HSS2x2x3	.410	0	2	.060	29...	z	5	44.238	49.266	2.75	2.75	...H1-1b
911	M1043	HSS2x2x3	.721	29...	2	.086	29...	z	5	44.238	49.266	2.75	2.75	...H1-1b
912	M1044	HSS2x2x3	.348	0	2	.057	29...	z	5	44.238	49.266	2.75	2.75	...H1-1b
913	M1045	HSS2x2x3	.560	29...	2	.095	29...	z	5	44.238	49.266	2.75	2.75	...H1-1b
914	M1046	HSS2x2x3	.174	29...	2	.033	0	y	2	44.238	49.266	2.75	2.75	...H1-1b
915	M1047	HSS2x2x3	.200	29...	5	.088	29...	z	5	44.238	49.266	2.75	2.75	...H1-1b
916	M1048	HSS2x2x3	.100	0	2	.046	0	z	5	30.861	49.266	2.75	2.75	...H1-1b
917	M1049	HSS2x2x3	.147	61.2	2	.056	51	z	5	30.861	49.266	2.75	2.75	...H1-1b
918	M1050	HSS2x2x3	.143	61.2	2	.021	51...	z	5	30.861	49.266	2.75	2.75	...H1-1b
919	M1051	HSS2x2x3	.124	0	2	.015	51	z	2	30.861	49.266	2.75	2.75	...H1-1b
920	M1052	HSS2x2x3	.122	61.2	2	.056	51...	z	5	30.861	49.266	2.75	2.75	...H1-1b
921	M1053	HSS2x2x3	.118	0	2	.070	0	z	5	30.861	49.266	2.75	2.75	...H1-1b
922	M1062	HSS2x2x3	.388	0	5	.036	0	z	2	46.437	49.266	2.75	2.75	...H1-1b
923	M1063	HSS2x2x3	.099	0	5	.014	0	z	5	30.861	49.266	2.75	2.75	...H1-1b
924	M1064	HSS2x2x3	.142	0	5	.016	0	z	5	30.861	49.266	2.75	2.75	...H1-1b
925	M1065	HSS2x2x3	.137	0	5	.017	0	z	2	30.861	49.266	2.75	2.75	...H1-1b
926	M1066	HSS2x2x3	.289	0	5	.076	0	z	2	44.238	49.266	2.75	2.75	...H1-1b
927	M1067	HSS2x2x3	.085	0	5	.016	0	z	2	29.089	49.266	2.75	2.75	...H1-1b

Envelope AISC 14th(360-10): LRFD Steel Code Checks (Continued)

Member	Shape	Code Check	Lo...	LC	Shear	Lo...	phi*P...	phi*P...	phi*Mn...	phi*Mn...	Eqn			
928	M1068	HSS2x2x3	.071	0	5	.014	0	z	5	29.473	49.266	2.75	2.75	...H1-1b
929	M1069	HSS2x2x3	.064	0	5	.011	0	z	2	29.812	49.266	2.75	2.75	...H1-1b
930	M1070	HSS2x2x3	.605	0	5	.124	0	z	5	47.049	49.266	2.75	2.75	...H1-1b
931	M1071	HSS2x2x3	.537	0	5	.124	0	z	5	47.592	49.266	2.75	2.75	...H1-1b
932	M1072	HSS2x2x3	.146	0	5	.037	0	z	5	47.049	49.266	2.75	2.75	...H1-1b
933	M1073	HSS2x2x3	.218	16...	5	.054	0	z	5	47.592	49.266	2.75	2.75	...H1-1b
934	M1074	HSS2x2x3	.311	0	5	.053	0	y	5	44.238	49.266	2.75	2.75	...H1-1b
935	M1075	HSS2x2x3	.372	29...	5	.038	0	z	5	44.238	49.266	2.75	2.75	...H1-1b
936	M1076	HSS2x2x3	.098	61.2	5	.073	61.2	z	5	30.861	49.266	2.75	2.75	...H1-1b
937	M1077	HSS2x2x3	.223	16...	5	.052	0	z	5	47.592	49.266	2.75	2.75	...H1-1b
938	M1078	HSS2x2x3	.088	61.2	5	.029	61.2	z	2	30.861	49.266	2.75	2.75	...H1-1b
939	M1079	HSS2x2x3	.081	61.2	2	.087	61.2	z	5	30.861	49.266	2.75	2.75	...H1-1b
940	M1080	HSS2x2x3	.393	29...	5	.051	0	z	5	44.238	49.266	2.75	2.75	...H1-1b
941	M1081	HSS2x2x3	.083	33...	5	.050	54...	z	5	30.861	49.266	2.75	2.75	...H1-1b
942	M1082	HSS2x2x3	.124	61.2	5	.028	54...	z	2	30.861	49.266	2.75	2.75	...H1-1b
943	M1083	HSS2x2x3	.108	0	5	.064	0	z	5	30.861	49.266	2.75	2.75	...H1-1b
944	M1084	HSS2x2x3	.315	0	5	.027	29...	z	5	44.238	49.266	2.75	2.75	...H1-1b
945	M1085	HSS2x2x3	.612	29...	5	.077	29...	z	5	44.238	49.266	2.75	2.75	...H1-1b
946	M1086	HSS2x2x3	.436	0	5	.056	29...	z	5	44.238	49.266	2.75	2.75	...H1-1b
947	M1087	HSS2x2x3	.763	29...	5	.082	29...	z	5	44.238	49.266	2.75	2.75	...H1-1b
948	M1088	HSS2x2x3	.380	0	5	.060	0	y	5	44.238	49.266	2.75	2.75	...H1-1b
949	M1089	HSS2x2x3	.596	29...	5	.093	29...	z	5	44.238	49.266	2.75	2.75	...H1-1b
950	M1090	HSS2x2x3	.183	29...	5	.035	0	y	5	44.238	49.266	2.75	2.75	...H1-1b
951	M1091	HSS2x2x3	.227	29...	5	.086	29...	z	2	44.238	49.266	2.75	2.75	...H1-1b
952	M1092	HSS2x2x3	.166	0	5	.045	0	y	5	30.861	49.266	2.75	2.75	...H1-1b
953	M1093	HSS2x2x3	.163	61.2	5	.054	51	z	5	30.861	49.266	2.75	2.75	...H1-1b
954	M1094	HSS2x2x3	.183	0	5	.022	0	y	5	30.861	49.266	2.75	2.75	...H1-1b
955	M1095	HSS2x2x3	.187	0	5	.016	0	y	5	30.861	49.266	2.75	2.75	...H1-1b
956	M1096	HSS2x2x3	.181	0	5	.054	51...	z	5	30.861	49.266	2.75	2.75	...H1-1b
957	M1097	HSS2x2x3	.180	0	5	.068	0	z	5	30.861	49.266	2.75	2.75	...H1-1b
958	M1088A	HSS8x8x4	.409	0	5	.141	0	z	5	290.78	293.94	66.288	66.288	...H1-1b
959	M1089A	HSS8x8x4	.133</											

**Envelope AISC 14th(360-10): LRFD Steel Code Checks (Continued)**

Member	Shape	Code Check	Lo...	LC	Shear ...	Lo...	phi*P...	phi*P...	phi*Mn...	phi*Mn...	Eqn			
987	M1103	HSS6x6x4	.224	0	4	.027	0	z	2	205.0...	216.9...	38.64	38.64	...H1-1b
988	M1104	HSS4x4x3	.227	78...	5	.025	78...	y	5	89.925	106.8...	12.662	12.662	...H1-1b
989	M1105	HSS4x4x3	.246	73...	5	.012	73...	y	5	91.99	106.8...	12.662	12.662	...H1-1a
990	M1106	HSS4x4x3	.051	0	5	.026	0	z	5	94.724	106.8...	12.662	12.662	...H1-1b
991	M1107	HSS4x4x3	.065	0	4	.025	0	z	2	94.724	106.8...	12.662	12.662	...H1-1b
992	M1108	HSS4x4x3	.051	65...	5	.026	65...	z	5	94.724	106.8...	12.662	12.662	...H1-1b
993	M1109	HSS4x4x3	.065	65...	4	.025	65...	z	2	94.724	106.8...	12.662	12.662	...H1-1b



**Basic Load Cases**

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area (Me... Surface(...
1 D	DL		-1				180
2 W	WL						200 104
3 F	None						200 104
4 BLC 1 Transient Ar...	None						690
5 BLC 2 Transient Ar...	None						417
6 BLC 3 Transient Ar...	None						417

**Load Combinations**

Description	So...	PDelta	S...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...
1 D	Yes	Y	1	1									
2 W	Yes	Y	2	1									
3 F	Yes	Y	3	1									
4 1.25D	Yes	Y	1	1.25									
5 1.1D+1.0W	Yes	Y	1	1.1	2	1							
6 0.9D+1.0W	Yes	Y	1	.9	2	1							
7 1.0D+1.0F	Yes	Y	1	1	3	1							

**Envelope Joint Reactions**

Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1 N62	max	0	1	5.006	4	0	1	0	1	0	1	0	1
2	min	0	1	0	2	0	1	0	1	0	1	0	1
3 N63	max	0	1	5.679	5	0	1	0	1	0	1	0	1
4	min	0	1	.176	3	0	1	0	1	0	1	0	1
5 N60	max	0	1	.612	4	0	1	0	1	0	1	0	1
6	min	0	1	0	2	0	1	0	1	0	1	0	1
7 N61	max	0	1	2.493	5	0	1	0	1	0	1	0	1
8	min	0	1	.285	3	0	1	0	1	0	1	0	1
9 N230	max	0	1	2.493	5	0	1	0	1	0	1	0	1
10	min	0	1	.285	3	0	1	0	1	0	1	0	1
11 N232	max	0	1	5.685	5	0	1	0	1	0	1	0	1
12	min	0	1	.176	3	0	1	0	1	0	1	0	1
13 N231	max	0	1	4.997	4	0	1	0	1	0	1	0	1
14	min	0	1	0	2	0	1	0	1	0	1	0	1
15 N229	max	0	1	.612	4	0	1	0	1	0	1	0	1
16	min	0	1	0	2	0	1	0	1	0	1	0	1
17 N541A	max	18.849	4	38.915	4	29.276	2	621.216	2	-.081	1	-.003	3
18	min	.038	3	-3.169	2	0	4	.026	1	-73.076	5	-95.704	4
19 N542A	max	-.038	3	38.914	4	29.277	5	621.214	2	73.081	5	95.705	4
20	min	-18.849	4	-3.169	2	0	1	-.033	4	.085	1	.003	3
21 Totals:	max	0	2	100.282	4	58.553	2						
22	min	0	4	0	3	0	4						

Member	Collected	Pledged	Possible Funding Sources
		43000	43000 City of Twin Falls
Sinclair		30000	30000 Seagraves Foundation
Pierce		20000	20000 Twin Falls County
Lytle		10000	10000 First Federal
	10000		10000 Idaho Central Credit Union
Mitch		10000	10000 Western Days Committee
	4872		4872 Sinclair, Paula Brown - Stock Donation
	2500		2500 Jensen Jewelers
	1500		1500 Wills, In Memory Of
		1000	1000 Aamco Transmissions
	1000		1000 Boyd, Jim & Nikki
		1000	1000 John Deer
		1000	1000 K&T Steel Corp.
	1000		1000 Newberry, Dave & Donna
	1000		1000 Premier Auto Group
	1000		1000 Stotz Equipment
Markus		1000	1000 Title One
	500		500 CapEd
	500		500 LeForgee, Rex & Cheryl
	500		500 Middlekauff Automotive Group
	300		300 Anderson, Leonard & Alice
	300		300 Ataraxis Accountinig & Advisory Services
	300		300 Gem State Welders Supply
	250		250 Library Foundation
	250		250 Magic Valley Arts Council
Boyd		250	250 Magic Valley Relators
	250		250 Munoz, Gerardo "In Memory of Guillermo Munoz Loving
	250		250 Sinclair, Paula Brown - Jean Art Award
	250		250 Twin Falls Education Foundation
Kapeleris		250	250 Xavier school
	200		200 Archway Brick Purchases - Missing Donator
	200		200 Heinrich, Linda
	999		999 Lytle, Rex & Emmie
	200		200 Lytle, Ray & Flo
	150		150 Brick for TF Community
	150		150 Mason Trophies
	150		150 Watt, Willie & Kristene
	125		125 Glenda Thompson
	101		101 Humphries , Andrew
	100		100 Brick from Senior Center
	100		100 Birrell, Shane "Shane J Birrell, Sasha E Birrell"
	100		100 Bolton, Jeanette & Brian
	100		100 Bud & Mary Touchette
	100		100 Eaton, Curtis & Mardo
	100		100 Fairbanks, Kelly and Mary

100		100 Flowers, Gus & Lou
100		100 Fraser, Donn & Anna
100		100 Gem State Paper & Supply
100		100 Holmstead Howe, PLLC
100		100 Long, Eric
100		100 Markus, Dave and Kathy
100		100 Philipp, George
100		100 Ricks, James "James T. Ricks, Wathc the Signs to be inform
100		100 Sabala, Ray & Arlene
100		100 Smallwood, Eric
100		100 Wilkinson, Brad
100		100 Wills, Brad & Lucy
50		50 Ruth Pierce
12		12 Western Days Misc Cash
		0 Complete Crane - Service
		0 Lytle Signs - Service
		0 Petruzzelli Electric - Electrical
Anderson		0 Rob Green
		0 Tractor Company - Groundwork
Anderson	Email - bounced back	60 Hours to Fight Hunger
Anderson	Email	Agri Service
Sinclair		Albertsons Foundation
Anderson	Mailed	American Cancer Society
Anderson		American Legion Family
Lytle		Bey, Bob & Betty
Anderson	Mailed	Boy Scouts of America Snake River Council
Greg?		Boys and Girls Club of Magic Valley
Kapeleris		Cactus Petes
Prater		Canyon Crest Dining & Event Center
Anderson	Email	Canyon Gate Dental
Crane		Canyon Park, LLC
Anderson	Contacted	Capstone
Ruth		CH2M HILL
Crane		Chamber Leads Group
Anderson	No Answer	Chobani
Anderson	Email	Clear Springs Foods Inc
Roe		Clif Bar
Pierce		Confidential
Anderson	Email	Cooper Norman
Markus		Crafts in the Country
Sinclair	Declined	CSI Foundation (Maybe marketing dollars after it is built)
Pierce		D L Evans Bank-Main St Branch
Pierce		DL Evans Foundation
Ruth		Doug Vollmer
Sinclair		Education Foundation
Boyd		EHM Engineers
Anderson	Contacted	Farmers National Bank

Crane		Festival of Giving
Sinclair		First Federal Foundation
Sinclair		Florence Gardner Trust
Roe		Fred Meyers
Crane		Friends of the NRA
Boyd	letter of interest	Girl Scout Silver Sage Council
Sinclair	letter of intent	Glanbia Foundation
Lytle		Gloria - Janzio Mexican Resturaunt
Sinclair	Declined	Grace Smith-Keveran & Kenneth A Keveran Foundation
Crane		Habitat for Humanity
Anderson	Email	Harvest Festival (Delta Epsilon Chi)
Crane		Hilex Poly Co., LLC
Markus		Home Depot
Markus		Idaho Community Foundation
Crane		Idaho Dairymen's Association
Crane		Idaho Farm Bureau Federation
Roe	no	Idaho Power Company
Pierce		Independent Meat Co
Anderson	Contacted	INL (Idaho National Laboratory
Roe		Integrated Technologies
Anderson	Email	Intermountain Gas Co.
Pierce		Jaker's Bar & Grill
Anderson	Contacted	Kapstone (Longview Fiber)
Crane		KickBack Rewards Systems - Loyalty Mrk & Gift Card
Anderson	Mailed	Kids Count Too Inc
Anderson	Maybe 1000	Kiwanis Club of Twin Falls
Crane		KMVT
Crane		Lions Club
Markus		Lowe's
Rex		Lytle Signs
Crane		Magic Valley Air Show
Anderson	Email	Magic Valley Builders Association
Markus	No	Magic Valley Electric
Lytle		Magic Valley Mall
Crane		Magic Valley Symphony Orchestra
Boyd		MagicFest - Lance Clow
Anderson	Mailed	Make a Wish Foundation
		Mark & Debby Brady
Sinclair		Maurice Bowers Trust
Pratter	Maybe	McDonald's of Twin Falls - Blue Lakes Blvd N
Kapeleris		MelQualie
Pierce		Middlekauff Foundation
Anderson	Email	National Letter Carrier's
Anderson	Email	National Police Week
Anderson	Email	Northwest Farm Credit Services
Prater		Oasis Stop 'N Go, LLC Administration
Prater	Presented	Optimist Club Twin Falls

Crane		Our Talent Our Strength
Anderson	Email	Paint Magic
Sinclair		Paul G. Allen Family Foundation
Crane		Perrine Bridge Festival
Markus	Will Donate Electrical - Get Esti	Petruzzelli Electric
Anderson	Contacted	Pioneer FCU
Anderson		Pioneer FCU
Sinclair	Grant Applications	PMT Foundation
Anderson	Email	Ray Neilsen
Nikki	Presented	Realtor's association
Crane		Relay For Life
	Not Now Maybe October	Rob Green
Lytle		Roger - Retired owner of Boat Dealership in Burley
Ruth	Presented	Rotary Evening Group
Sinclair	Declined	Rotary Foundation - Death by Chocolate
Sinclair		Rotary Foundation - Ice Cream Fun Day
Anderson		Rotary Morning Group
Sinclair	Submitted	Rotary's Death by Chocolate - Lunch Group
Anderson	Mailed	Safe Harbor
Markus		Simplot
Anderson	Mailed	South Central Community Action Partnership 733-9351?
Boyd		Southern Idaho Tourism
Markus	NO	St Lukes Foundation
Roe		St Luke's Magic Valley Medical Center
		Standlee Associates
Pierce		Stanley Associates, Inc.
		Starr Corp.
Anderson	Email	Stone House & Co / Catering By Karen
Anderson	Contacted	The Land Group
Pierce		TitleFact Inc
Anderson	Email	Travelers' Oasis Truck Plaza
Roe		Twin Falls Canal Co
Boyd		Twin Falls Chamber of Commerce
Humble	Contacted	Twin Falls County Fair and Rodeo
Anderson	Email	Twin Falls County Farm Bureau Federation
Anderson	Email	Twin Falls County Farm Bureau Federation
Anderson	Email - bounced back	Twin Falls County Tree Board (Arbor Day)
Anderson	Email	Twin Falls Flea Market
Boyd		Twin Falls Municipal Band
Anderson	No -Maybe Comittees	Twin Falls School District
Roe		Twin Falls Senior Center
Anderson	Mailed	United Way of South Central Idaho
Anderson	Mailed	Valley House Homeless Shelter
Markus		Vintage Vixens
Anderson	Mailed	Voices Against Violence
Kapeleris		WalMart
Anderson	Email -bounced back	Western Magic Valley Realtors (March 7)

Pierce		Western Waste Services
Pratter		Winco
Lytle		Woodbury Corporation
Lytle		Woodbury Corporation
Lytle		Woodbury Corporation
Lytle		Woodbury Corporation
Anderson	Mailed	YMCA - Twin Falls
Boyd		Zions Bank
Boyd		Zions Bank

30659	117500	148159	
	148159		Total Pledged/Collected
	151841		<b>Remaining to 300,000</b>

**Expenses**

-4975	Engineering
-50	Fees for Beer Fest
-500	Fee to Twin Falls Community Foundation
-38.68	Fees to Square
-500	Prize money awarded
-12.38	Square Fees from Western Days
-6076.06	

Volunteer	Date	Time	Event	
John and Leonard	7/6/2018	Set up by 3:45 -Event 1 Hr	Downtown Commons Ribbon Cutting	
	7/11/2018	Set up by 5:30 - Event 6-9 (no cars after 4:30)	Twin Falls Tonight	
	7/18/2018	Set up by 5:30 - Event 6-9 (no cars after 4:30)	Twin Falls Tonight	
	7/25/2018	Set up by 5:30 - Event 6-9 (no cars after 4:30)	Twin Falls Tonight	
	7/27/2018	both set up by 12 to 5 booth set up 5-8 pm	Art In the Park	
	7/27/2018	5pm-8pm	Art In the Park	
	7/28/2018	Booth set up by 9 am	Art In the Park	
	7/28/2018	9 am - 12 pm	Art In the Park	
	7/28/2018	12pm - 3 pm	Art In the Park	
	7/28/2018	3pm - 6 pm	Art In the Park	
	7/28/2018	6 pm booth take down	Art In the Park	
	8/1/2018	Set up by 5:30 - Event 6-9 (no cars after 4:30)	Twin Falls Tonight	
	Melissa	8/4/2018	Set up at 11	Magic Valley Beer Festival
		8/4/2018	1 pm to 3 pm	Magic Valley Beer Festival
8/4/2018		3 pm - 6 pm	Magic Valley Beer Festival	
8/4/2018		Take Down at 6 pm	Magic Valley Beer Festival	
8/8/2018		Set up by 5:30 - Event 6-9 (no cars after 4:30)	Twin Falls Tonight	
8/15/2018		Set up by 5:30 - Event 6-9 (no cars after 4:30)	Twin Falls Tonight	



# Archway Project - Become a Partner

For years, the City of Twin Falls allowed non-profit organizations to advertise events, community fundraisers and special announcements on banners stretched across Shoshone Street. In the fall of 2016 the City terminated this practice for reasons of safety and cost, but expressed an interest in providing an alternative solution. Citizens proposed an electronic message center option to be displayed on an archway spanning Shoshone Street at City Park. A citizen sub-committee was created consisting of representatives from the community, City Council and the County Commission. Design concepts were submitted along with information regarding cost estimates for the project. The design concept pictured above has been approved by City Council.

The estimated cost for the project is approximately \$300,000.00. In addition to funds from the City of Twin Falls we are looking for community partnerships in helping provide funding for this project. Businesses, individuals and families that want to support the project are welcome to contribute.

### The Sign Will Be Used For

**A WIDE VARIETY OF NON-COMMERCIAL MESSAGES expected to include important information from Twin Falls City & County, CSI and schools, emergency and public safety notices like "Amber Alerts," community events and non-profit activities of many kinds.**

A recognition monument will be placed at the site to acknowledge donations. As a thank you and recognition for your donations between \$100-\$250 a brick including your name or message will be placed at the base of the monument. With a donation greater than \$250 your name, organization or business name, will be displayed on

## Billing Information

Name: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ St: \_\_\_\_\_ Zip: \_\_\_\_\_

Payment Method:    Cash \$ \_\_\_\_\_    Credit \$ \_\_\_\_\_    Check \$ \_\_\_\_\_ (check #: \_\_\_\_\_)  
                                  \_\_\_\_\_ Circle                                    \_\_\_\_\_ Tile                                    \_\_\_\_\_ Brick

the monument.

## Name/Message to Be Engraved

Each individual brick is priced at \$100 minimum, including sales tax. This includes the brick, the engraving, and installation.

**If you prefer to remain anonymous, please check here \_\_\_\_\_.**

\_\_\_\_\_   
 15 Characters and spaces-All Uppercase Letters

\_\_\_\_\_   
 15 Characters and spaces-All Uppercase Letters

\_\_\_\_\_   
 15 Characters and spaces-All Uppercase Letters

### Donations Can Also Be Made To:

Twin Falls Community Foundation IRS 501(c)(3)  
 P.O. Box 5632 Twin Falls, ID 83303-5632

<http://www.twinfallscommunityfoundation.com>