



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

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: Mitch Humble, Lisa Strickland

- 1) Confirmation of Quorum/Call Meeting to Order
- 2) Consent Calendar
 - a) Approval of minutes from the following meeting(s): 04-05-18
Purpose: **ACTION ITEM**
- 3) Items for Discussion
 - a) Fundraising Update
Purpose: **Discussion** By:
 - b) Engineering Documents
Purpose: **Discussion** By:
- 4) General Input/Announcements - Public/Staff
- 5) Upcoming Meeting(s)
 - a) June 7, 2018 at 8:45 am
- 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.

☐	Edit	Description							Notes
☐		Band Shell Rental	Sandy Hacking The Twin Falls Municipal Band Concerts	7:00pm	9:00pm	07/26/2018	120 min	City Park North Side	501+. Fence down, electrical in bandshell on, keys needed, park electricity on, porta potties, cleaning of restrooms, sprinklers off, additional trash cans, water access. vendors, live band, canopies. Carolyn White 208-734-2787
☐		Band Shell Rental	Carolyn White Art in the Park and Kids art in the Park	12:00pm	8:00pm	07/27/2018	480 min	City Park Band Shell	
☐		Band Shell Rental	Carolyn White Art in the Park and Kids art in the Park	12:00pm	8:00pm	07/27/2018	480 min	City Park North Side	
☐		Band Shell Rental	Carolyn White Art in the Park and Kids art in the Park	7:00am	6:00pm	07/28/2018	660 min	City Park Band Shell	
☐		Band Shell Rental	Carolyn White Art in the Park and Kids art in the Park	7:00am	6:00pm	07/28/2018	660 min	City Park North Side	Benjamin Chavez 208-749-6020 He is reserving the park this weekend due to confusion from last year. Do not need to take fence down.
☐		Band Shell Rental	Benjamin Chavez St Edward Catholic Church Fundraiser	8:00am	8:00pm	07/29/2018	720 min	City Park Band Shell	
☐		Band Shell Rental	Benjamin Chavez St Edward Catholic Church Fundraiser	8:00am	8:00pm	07/29/2018	720 min	City Park North Side	
☐		Band Shell Rental	Benjamin Chavez St Edward Catholic Church Fundraiser	8:00am	8:00pm	07/29/2018	720 min	City Park South West Side	
☐		Band Shell Rental	Marianne Barker Magic Valley Beer Festival	8:00am	8:00pm	08/04/2018	720 min	City Park Band Shell	501 and over Fence down, electrical on in park and on stage. broadcast music. Marianne Barker 208-308-5617
☐		Band Shell Rental	Marianne Barker Magic Valley Beer Festival	8:00am	8:00pm	08/04/2018	720 min	City Park North Side	
☐		Band Shell Rental	Marianne Barker Magic Valley Beer Festival	8:00am	8:00pm	08/04/2018	720 min	City Park Picnic Tables (6th Ave)	
☐		Band Shell Rental	Benjamin Chavez St Edward Catholic Church Fundraising	8:00am	8:00pm	08/05/2018	720 min	City Park Band Shell	
☐		Band Shell Rental	Benjamin Chavez St Edward Catholic Church Fundraising	8:00am	8:00pm	08/05/2018	720 min	City Park North Side	Fence down electrical on. Will provide porta potties, cleaning of restrooms, map, additional trash cans. Will have foo, live band merchandise vendors, canopies/tents inflatable toys. Benjamin Chavez 208-749-6020
☐		Band Shell Rental	Benjamin Chavez St Edward Catholic Church Fundraising	8:00am	8:00pm	08/05/2018	720 min	City Park South	
☐		Band Shell Rental	Sandy Hacking The Twin Falls Municipal Band Concerts	7:00pm	9:00pm	08/09/2018	120 min	City Park Band Shell	
☐		Band Shell Rental	Sandy Hacking The Twin Falls Municipal Band Concerts	7:00pm	9:00pm	08/09/2018	120 min	City Park North Side	
☐		Band Shell Rental	Richard Linares Car Show	7:00am	3:00pm	08/11/2018	480 min	City Park Band Shell	Fence down Food concessions/vendors Canopies/tents vehicles on lawn broadcast music catered food open to public

	Edit	Description							Notes
		Band	Shell Rental	Sandy Hacking The Twin Falls Municipal Band Concerts	7:00pm	9:00pm	06/14/2018	120 min	
☐		Band	Shell Rental	Sandy Hacking The Twin Falls Municipal Band Concerts	7:00pm	9:00pm	06/14/2018	120 min	City Park Band Shell
☐		Band	Shell Rental	Sandy Hacking The Twin Falls Municipal Band Concerts	7:00pm	9:00pm	06/14/2018	120 min	City Park North Side
☐		Band	Shell Rental	Tara McFarland Magic Valley Refugee Day	12:00pm	9:00pm	06/15/2018	540 min	City Park Band Shell
☐		Band	Shell Rental	Tara McFarland Magic Valley Refugee Day	12:00pm	9:00pm	06/15/2018	540 min	City Park North Side
☐		Band	Shell Rental	Sandy Hacking The Twin Falls Municipal Band Concerts	7:00pm	9:00pm	06/21/2018	120 min	City Park Band Shell
☐		Band	Shell Rental	Sandy Hacking The Twin Falls Municipal Band Concerts	7:00pm	9:00pm	06/21/2018	120 min	City Park North Side
☐		Band	Shell Rental	Sandy Hacking The Twin Falls Municipal Band Concerts	7:00pm	9:00pm	06/28/2018	120 min	City Park Band Shell
☐		Band	Shell Rental	Sandy Hacking The Twin Falls Municipal Band Concerts	7:00pm	9:00pm	06/28/2018	120 min	City Park North Side
☐		Band	Shell Rental	Sandy Hacking The Twin Falls Municipal Band Concerts	7:00pm	9:00pm	07/05/2018	120 min	City Park Band Shell
☐		Band	Shell Rental	Sandy Hacking The Twin Falls Municipal Band Concerts	7:00pm	9:00pm	07/05/2018	120 min	City Park North Side
☐		Band	Shell Rental	Sandy Hacking The Twin Falls Municipal Band Concerts	7:00pm	9:00pm	07/12/2018	120 min	City Park Band Shell
☐		Band	Shell Rental	Sandy Hacking The Twin Falls Municipal Band Concerts	7:00pm	9:00pm	07/12/2018	120 min	City Park North Side
☐		Band	Shell Rental	Tom Mikesell Veteran Celebration	8:00am	4:00pm	07/14/2018	480 min	City Park Band Shell
☐		Band	Shell Rental	Tom Mikesell Veteran Celebration	8:00am	4:00pm	07/14/2018	480 min	City Park North Side
☐		Band	Shell Rental	Sandy Hacking The Twin Falls Municipal Band Concerts	7:00pm	9:00pm	07/19/2018	120 min	City Park Band Shell
☐		Band	Shell Rental	Sandy Hacking The Twin Falls Municipal Band Concerts	7:00pm	9:00pm	07/19/2018	120 min	City Park North Side
☐		Band	Shell Rental	Sandy Hacking The Twin Falls Municipal Band Concerts	7:00pm	9:00pm	07/26/2018	120 min	City Park Band Shell

Fence down, bandshell keys needed, own mic, will provide porta potties, cleaning of restrooms, map, additional trash cans and will need water. access.Canopies, broadcast music, catered food. band shell electrical on. Tara McFarland 208-431-0250

bandshell fence down electricity on. Tom Mikesell 208-734-7789 Electricity Needed for #18, #19

Update

- Assign Employees
- Remove Employees

Get Game Sheets

Show 50

▼ entries

Export CSV

SHIFT + Click to sort by multiple columns

Edit	Type	Description	Start	End	Date	Length	Location	Notes
	Band Shell Rental	Elaine Proost National Day of Prayer	10:00am	6:00pm	05/03/2018	480 min	City Park Band Shell	151-200 Open to the public, needs electricity on in bandshell, broadcast music Elaine Proost 208 420-0206. Will need PA system, microphone, stand. Will pick up keys on may 2nd
	Band Shell Rental	Rosa Paiz Mother's Day Fiesta	8:00am	8:00pm	05/13/2018	720 min	City Park Band Shell	Will provide porta potties, cleaning of restrooms, cert.of liability, Map layout of event, additional trash cans, Will need water access, keys, liquor ins. cert. Electricity and fence down. Rosa Paiz 208-731-6162
	Band Shell Rental	Rosa Paiz Mother's Day Fiesta	8:00am	8:00pm	05/13/2018	720 min	City Park North Side	
	Band Shell Rental	Rosa Paiz Mother's Day Fiesta	8:00am	8:00pm	05/13/2018	720 min	City Park South	
	Band Shell Rental	Jim O'Donnell Law Enforcement Memorial Service	10:30am	1:00pm	05/19/2018	150 min	City Park Band Shell	Fence down, electricity in park. Jim O'Donnell 208-734-7149
	Band Shell Rental	Jim O'Donnell Law Enforcement Memorial Service	10:30am	1:00pm	05/19/2018	150 min	City Park North Side	
	Band Shell Rental	Bethel Temple Church Church Concert	2:00pm	10:00pm	05/19/2018	480 min	City Park Band Shell	
	Band Shell Rental	Stan Crowley Western Days	8:00am	4:00pm	06/01/2018	480 min	City Park Band Shell	
	Band Shell Rental	Stan Crowley Western Days	8:00am	9:00pm	06/01/2018	3660 min	City Park North Side	
	Band Shell Rental	Stan Crowley Western Days	8:00am	9:00pm	06/01/2018	3660 min	City Park South	
	Band Shell Rental	Sandy Hacking The Twin Falls Municipal Band Concerts	7:00pm	9:00pm	06/06/2018	120 min	City Park North Side	
	Band Shell Rental	Sandy Hacking The Twin Falls Municipal Band Concerts	7:00pm	9:00pm	06/07/2018	1560 min	City Park Band Shell	Sandy Hacking 208-731-5577 Fence down electrical on Cleaning bandshell on 6/6 fence down
	Band Shell Rental	Sandy Hacking The Twin Falls Municipal Band Concerts	7:00pm	9:00pm	06/07/2018	120 min	City Park North Side	
	Band Shell Rental	Sarah Zatica - Gill Magic Valley Pride Festival	8:00am	10:00pm	06/09/2018	840 min	City Park Band Shell	251-500 Band shell fence down all electricity on, will provide porta potties, cleaning of restrooms, ins certs, map, additional trash cans. Canopies, alcohol, live band. Sara Gill 208-316-5459

Start	Resource	First Name	Last Name	Phone
8/4/2018 7:30	City Park South West Side	Jeanette	Graham	(208) 734-3613
6/23/2018 8:00	City Park North Side	Max	Thurber	(208) 410-9138
7/21/2018 9:00	City Park North Side	Jessica	Meade	(208) 539-8080
9/14/2018 15:00	City Park South West Side	Ken	Robinette	(208) 733-9351
9/14/2018 15:00	City Park North Side	Ken	Robinette	(208) 733-9351
9/14/2018 15:00	City Park South	Ken	Robinette	(208) 733-9351
9/9/2018 6:30	City Park South	Ron	Heath	(208) 961-1620
9/9/2018 6:30	City Park North Side	Ron	Heath	(208) 961-1620
9/8/2018 11:00	City Park North Side	Dennis	Bowyer	(208) 733-1013
9/15/2018 7:00	City Park North Side	Ken	Robinette	(208) 733-9351
9/15/2018 7:00	City Park South	Ken	Robinette	(208) 733-9351
6/9/2018 8:00	City Park North Side	Sarah	Zatica - Gill	(208) 316-5459
5/12/2018 8:30	City Park North Side	Katie	Bryant	(775) 385-4885
5/30/2018 18:00	City Park North Side	Stan	Crowley	(208) 732-5265
6/1/2018 18:00	City Park Band Shell	Stan	Crowley	(208) 732-5265
7/26/2018 18:00	City Park South West Side	Sandy	Hacking	(208) 222-2222
8/4/2018 12:00	City Park South	Nikki	Miller	(208) 404-6426

Email	Description
outhego4@cableone.net	Magic Valley Iris Society
thurbermax@cableone.net	Rusty Nuts Old Car part swap meet
jessme18@gmail.com	Paint Magic Picnic
ken@sccap-id.org	South Central Community Action Partnership In Action
ken@sccap-id.org	South Central Community Action Partnership In Action
ken@sccap-id.org	South Central Community Action Partnership In Action
rheath@lighthousewin.com	Lighthouse Church Service & Neighborhood BBQ
rheath@lighthousewin.com	Lighthouse Church Service & Neighborhood BBQ
dbowyer@cableone.net	Optimist Club of Twin Falls-Tailgating Party/BBQ
ken@sccap-id.org	Annual Community Partnerships In Action
ken@sccap-id.org	Annual Community Partnerships In Action
silaan@yahoo.com	Magic Valley Pride Festival
mvpowmiaawareness@gmail.com	Craft Fair and Pet Parade
ostantheman@msn.com	Western Days Set up
ostantheman@msn.com	Western Days
sandy.hacking@labor.idaho.gov	Municipal Band Potluck
idagrl73@yahoo.com	TFHS Class of 73 Reunion

**TWIN FALLS
ARCHWAY
TWIN FALLS, ID**

CLIENT:
LYTLE SIGNS INC.

PROJECT NUMBER:
15975

DATE: 04-04-2018

SCALE: NO SCALE

DRAWN BY: JS

DESIGNED BY: JS

REVISIONS:
NO. DATE

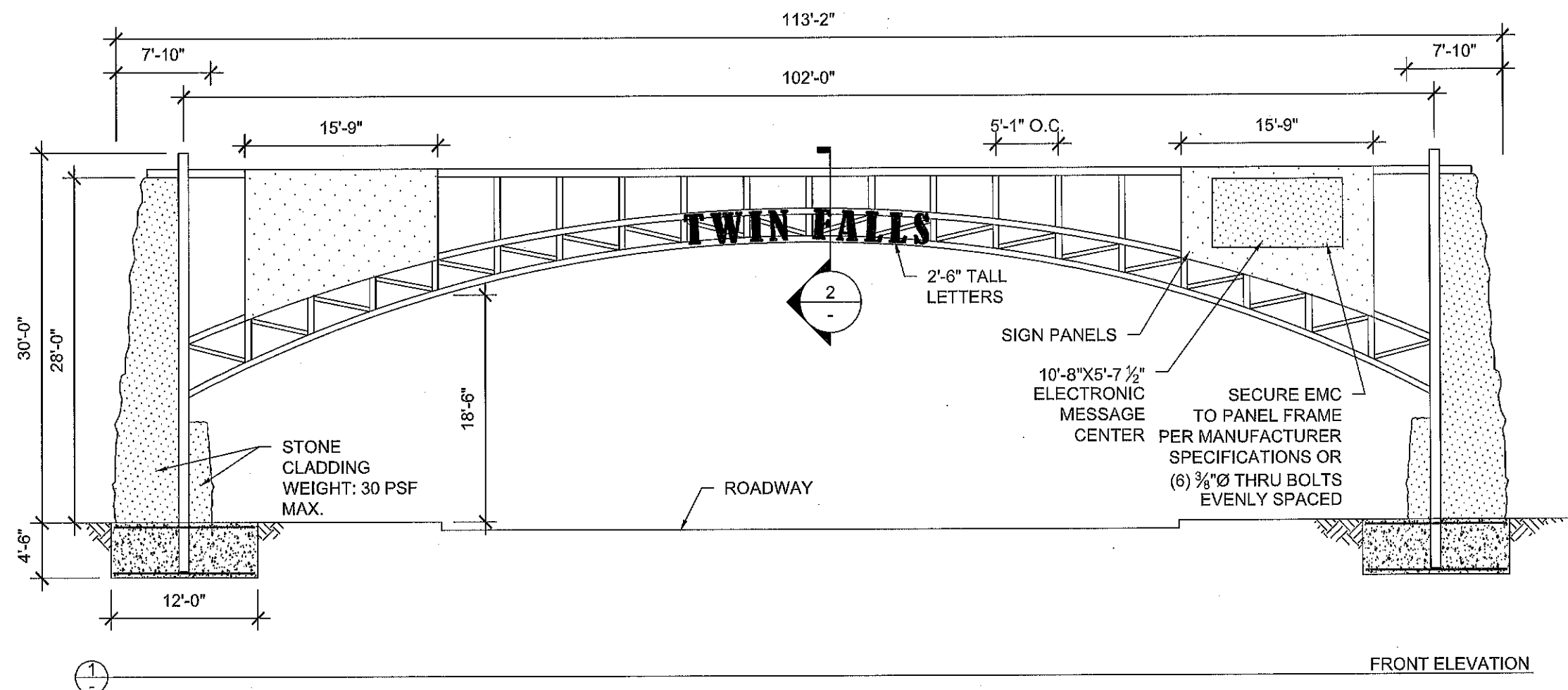
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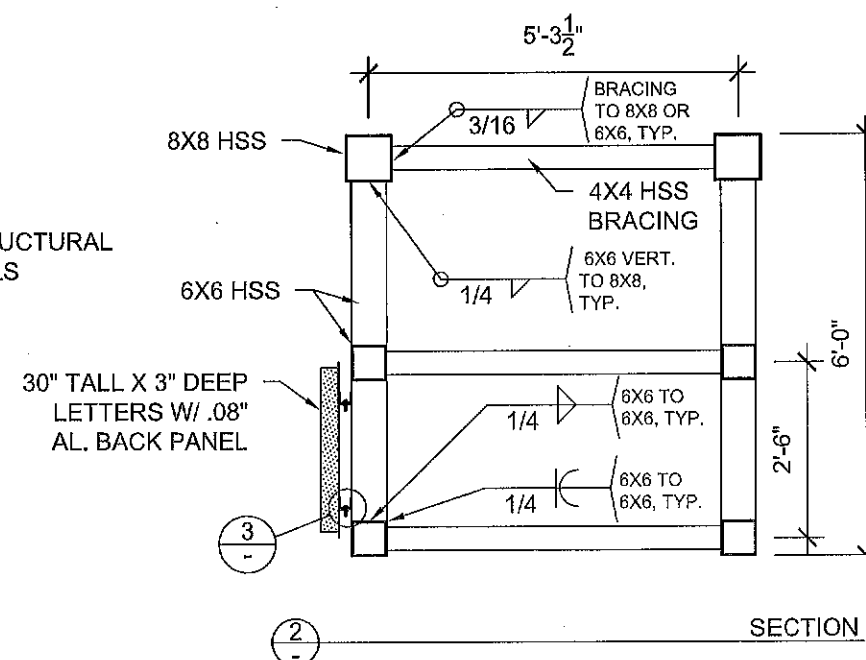
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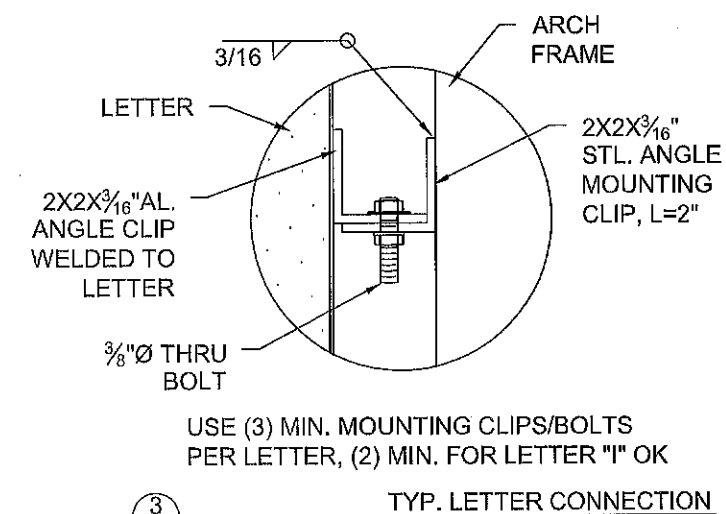
FRONT ELEVATION

GENERAL NOTES

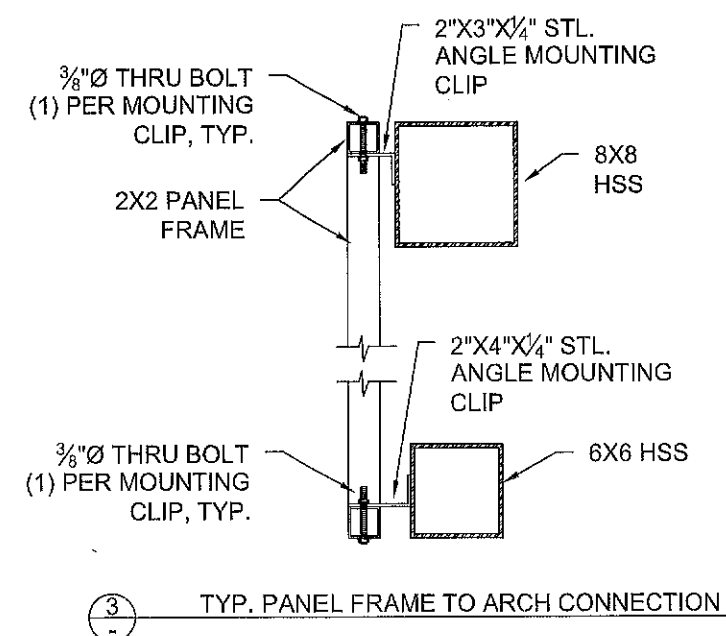
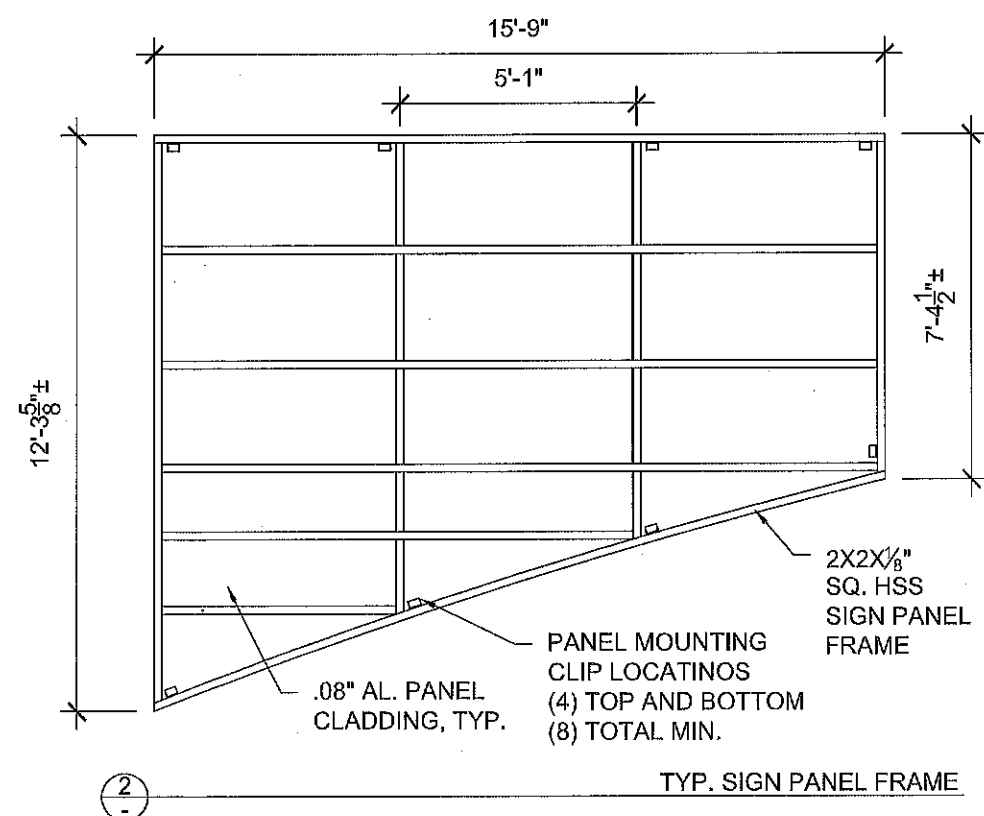
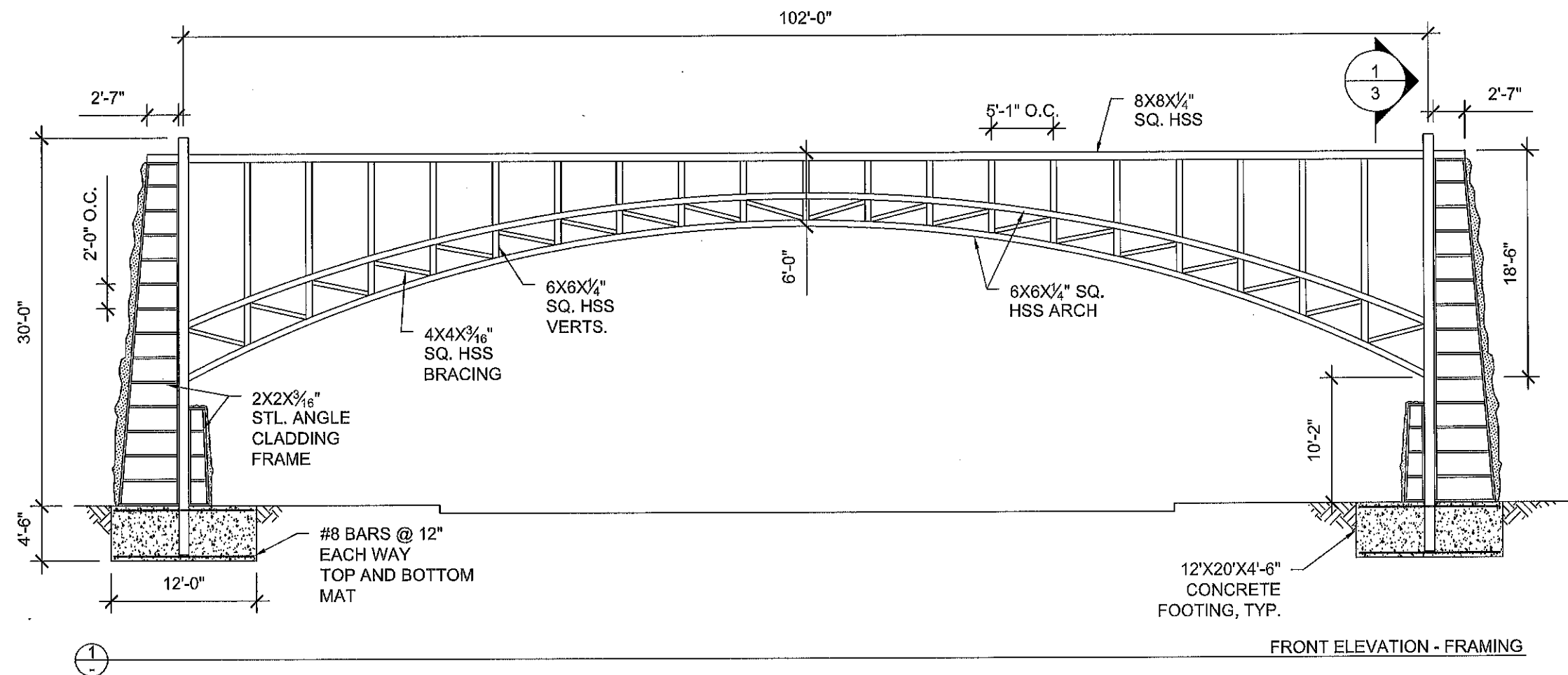
1. DESIGN CODE AND LOADS: AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS
2. WIND VELOCITY: 120 MPH EXPOSURE C
3. CONCRETE 3000 PSI MIN.
4. SQ./RECT. HSS STEEL ASTM A500 GR.B, $F_y = 46$ KSI MIN. OR CORTEN TUBE STEEL ASTM A847, $F_y = 50$ KSI MIN. ALSO OK
5. ANGLE STEEL ASTM A36
6. BOLT STEEL ASTM A307
ALL BOLTS TO BE HOT DIPPED GALVANIZED
7. WELD F_{exx} : 70 KSI MIN.
8. REINFORCING BAR (REBAR) STEEL ASTM A615 GR. 60 KIS
9. PROVIDE 3" CONCRETE COVER MIN. FOR REBAR
10. PROVIDE PROTECTION AGAINST DISSIMILAR METALS USING ANTI-CORROSIVE PAINT OR NEOPRENE GASKETS.
11. VERTICAL SOIL BEARING PER IBC CLASS 4 (2000 PSF)
12. ALL EXISTING ELEMENTS AND DIMENSIONS TO BE VERIFIED IN FIELD.
13. ALL DIMENSIONS TO BE VERIFIED PRIOR TO FABRICATION.

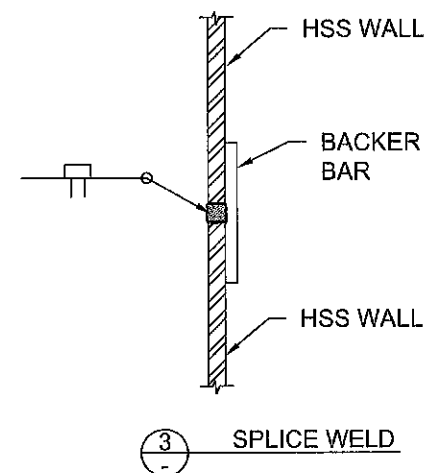
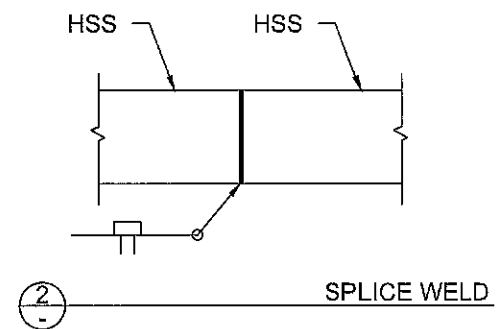
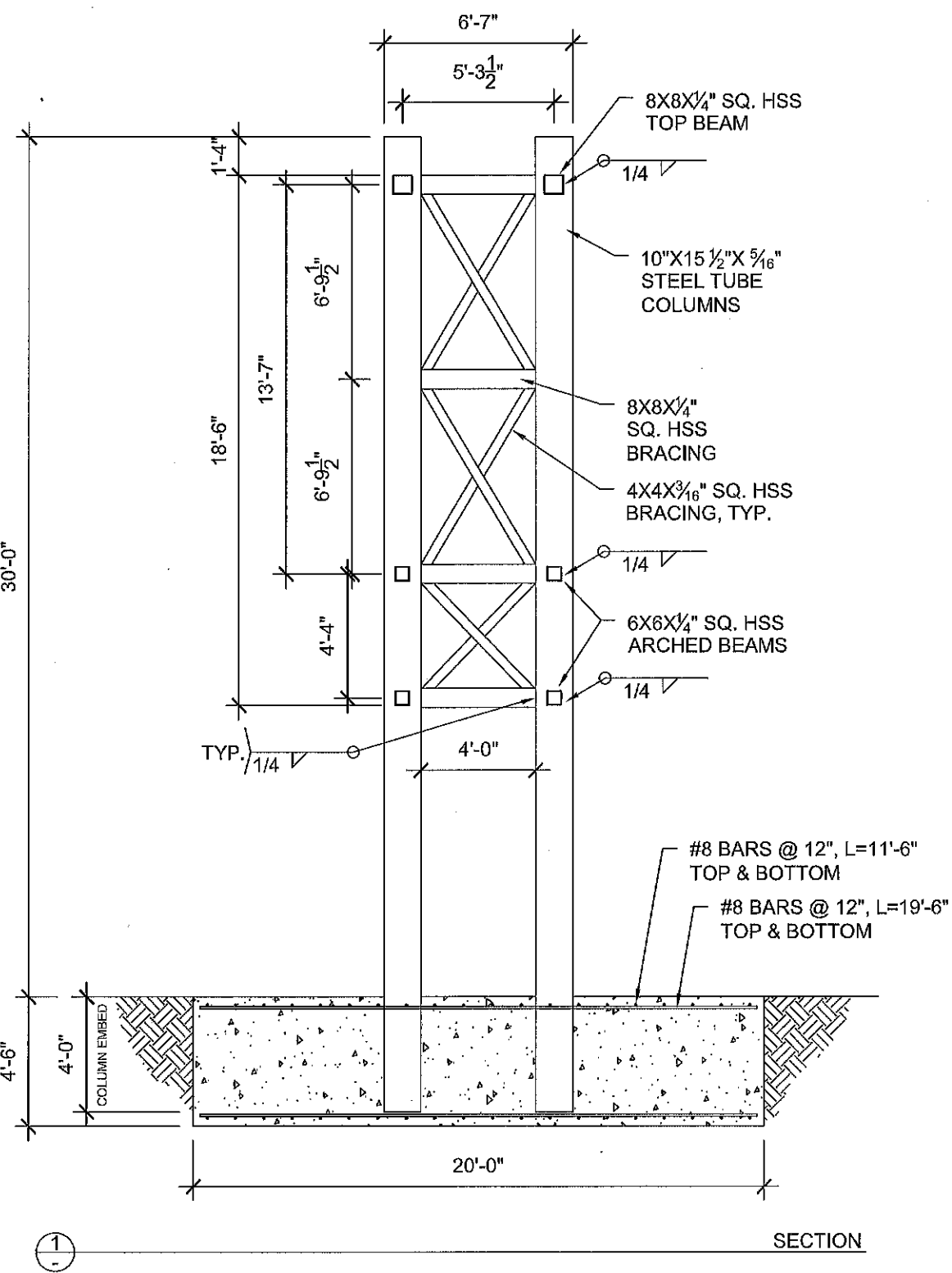


SECTION



TYP. LETTER CONNECTION





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

$$P_z = 0.00256 \cdot K_z \cdot K_d \cdot G \cdot V^2 \cdot C_d \quad \text{eq. 3.8.1-1}$$

$$K_z = 1.0 \quad (\text{Sec. 3.8.4})$$

$$K_d = 0.85 \quad (\text{Table 3.8.5.1})$$

$$G = 1.14 \quad (\text{Sec. 3.8.6})$$

$$V = 120 \quad \text{mph}$$

$$C_d \text{ truss} = 1.25 \quad (\text{Table 3.8.7-1})$$

$$P_z \text{ truss} = 44.65 \quad \text{PSF}$$

$$C_d \text{ panel} = 1.15 \quad (\text{Table 3.8.7-1})$$

$$P_z \text{ panel} = 41.08 \quad \text{PSF}$$

Fatigue Loading (Ch. 11)

Galloping: N/A

$$\text{Natural Wind Gust: } P_{nw} = 5.2 \cdot C_d \cdot I_f \quad (\text{eq. 11.7.1.2-1})$$

$$\text{Importance factor } I_f = 1.00 \quad (\text{sec. 11.6})$$

$$P_{nw} \text{ truss} = 6.50 \quad \text{PSF}$$

$$P_{nw} \text{ Panel} = 5.98 \quad \text{PSF}$$

$$\text{Truck Induced Gust: } P_{tg} = 18.8 \cdot C_d \cdot (V_t / 65 \text{ mph})^2 \cdot I_f \quad (\text{eq. C11.7.1.3-1})$$

$$\text{Importance factor } I_f = 1.00 \quad (\text{sec. 11.6}) \quad V_t = 25 \text{ mph}$$

$$P_{tg} \text{ truss} = 3.48 \quad \text{PSF}$$

$$P_{tg} \text{ Panel} = 3.20 \quad \text{PSF}$$

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

$$\text{Trib. Area} = .5(5.25 \text{ ft})(12.167 \text{ ft}) = 32 \text{ ft}^2$$

$$\text{wind force} = (32 \text{ ft}^2)(41 \text{ psf}) = 1312 \text{ lbs}$$

$$\text{dead load} = 1.25(10 \text{ psf})(32 \text{ ft}^2) = 400 \text{ lbs}$$

$$T \text{ per anchor} = .400 \text{ k}$$

$$T \text{ capacity} = .75(45 \text{ ksi})(.11 \text{ in}^2) = 3.71 \text{ k} \quad \text{OK}$$

$$V \text{ per anchor} = 1.31 \text{ k}$$

$$V \text{ capacity} = .75(27 \text{ ksi})(.11 \text{ in}^2) = 2.22 \text{ k} \quad \text{OK}$$

$$\text{Fatigue load} = (32 \text{ ft}^2)(6 \text{ psf}) = 192 \text{ lbs}$$

$$A \text{ bolt} = .11 \text{ in}^2$$

$$\text{Bolt Stress} = .192 \text{ k} / .11 \text{ in}^2 = 1.75 \text{ ksi} < 7 \text{ ksi Threshold} \quad \text{OK}$$

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

$$\text{Bolt Bearing} = 1.31 \text{ k}$$

$$\Phi R_n = 2.4 \cdot D \cdot t \cdot F_u = 2.4(.375 \text{ in})(.25 \text{ in})(60 \text{ ksi}) = 13.5 \text{ k} \quad \text{OK}$$

$$\text{Angle Leg Mu} = (.400 \text{ k})(3 \text{ in}) = 1.20 \text{ k-in}$$

$$Z = .25(3 \text{ in})(.25 \text{ in})^2 = .047 \text{ in}^3$$

$$\phi M = \phi f_y Z = (.9)(36 \text{ ksi})(.047 \text{ in}^3) = 1.52 \text{ k-in} \quad \text{OK}$$

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

$$\text{EMC Area} = (5.667 \text{ ft})(10.667 \text{ ft}) = 61 \text{ ft}^2$$

$$\text{wind force} = (61 \text{ ft}^2)(41 \text{ psf}) = 2501 \text{ lbs}$$

$$\text{dead load} = 1.25(10 \text{ psf})(61 \text{ ft}^2) = 763 \text{ lbs}$$

$$T \text{ per anchor} = .763 \text{ k} / 6 = .127 \text{ k}$$

$$T \text{ capacity} = .75(45 \text{ ksi})(.11 \text{ in}^2) = 3.71 \text{ k} \quad \text{OK}$$

$$V \text{ per anchor} = 2.501 \text{ k} / 6 = .417 \text{ k}$$

$$V \text{ capacity} = .75(27 \text{ ksi})(.11 \text{ in}^2) = 2.22 \text{ k} \quad \text{OK}$$

$$\text{Fatigue load} = (11 \text{ ft}^2)(6 \text{ psf}) = 66 \text{ lbs}$$

$$A \text{ bolt} = .11 \text{ in}^2$$

$$\text{Bolt Stress} = .066 \text{ k} / .11 \text{ in}^2 = 0.60 \text{ ksi} < 7 \text{ ksi Threshold} \quad \text{OK}$$

Check 3/8" Thru Bolt securing letters to mounting clips - (3) per letter min. - (2) OK for letter "I"

Area per letter= (2.50 ft)(2.50 ft) = 6.25 ft^2
wind force= (6.25 ft^2)(41 psf)= 256 lbs
dead load= 1.25(10 psf)(6.25 ft^2)= 78 lbs

T per anchor= .078 k/3 = .026 k
T capacity= .75(45 ksi)(.11 in^2)= 3.71 k OK
V per anchor= .256 k/3 = .085 k
V capacity= .75(27 ksi)(.11 in^2)= 2.22 k OK

Fatigue load= (6.25 ft^2)(6 psf)/3= 13 lbs
A bolt= .11 in^2
Bolt Stress= .013 k/.11 in^2 = 0.12 ksi < 7 ksi Threshold OK

SULLAWAY
ENGINEERING

P.O. Box 28789, SD, CA 92198
mikesullaway@gmail.com
Phone: 858-312-5150 Fax: 858-777-3534

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

DATE: 4/4/18
ENGINEER: JS

Version 3.0

Longitude Direction

units: pounds, feet unless noted otherwise

applied shear at grade v= 29 kip unfactored load Z per RISA Report
applied moment at grade m= 631 kip-ft unfactored load Mx 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= 761.5 k-ft at base of footing
Footing size (ft) b= 12.00 L= 20.0 h= 4.50 S= 800.2
Footing Weight= 162.0 k signage weight= 40.0 k soil 0.00 total= 202.00
Overturning; M_c= 2020 M_c>1.5M 2.6527 ok
soil pressure; max= 1.801 ksf ok
forces on concrete pad; V= 158.1 k V_r= 253 k (=1.6V)
M= 791 k-ft M_r= 1265 k-ft

Check Slab;

φ= 0.9 f_y= 60 ksi f_c= 2.5 ksi 150 lbs/ft3
Flexure A_s= 7.00 d= 50.0 in
φM_n=φA_sf_y(d-a/2)= 18641 k-in = 1553 k-ft M_r<φM_n ok
a=A_sf_y/0.85f_cb= 1.373 in
Check minimum A_{smin}=2sqrt(f_c)bd/f_y= 18 200bd/f_y= 24.00 or 1.333A_s= 9.33 in²
Use A_s= 9.33 in²

Shear; φV_n=φ2sqrt(f_c)bd φV_c= 540.0 φ= 0.75 V_r<φV_n ok

SULLAWAY

ENGINEERING

P.O. Box 28789, SD, CA 92198

mikesullaway@gmail.com

Phone: 858-312-5150 Fax: 858-777-3534

PROJECT: Twin Falls Archway

PROJ. NO.: 15975

CLIENT: Lytle Signs

DATE: 4/4/18

ENGINEER: JS

Version 3.0

Longitude Direction

units; pounds, feet unless noted otherwise

applied shear at grade

v= 17 kip

unfactored load

X per RISA Report

applied moment at grade

m= 92 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= 168.5 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

7.1929

ok

soil pressure;

max= 1.193 ksf

ok

forces on concrete pad;

V= 122.1 k

V_r= 195 k (=1.6V)

M= 366 k-ft

M_r= 586 k-ft

Check Slab;

φ= 0.9

f_y= 60 ksi

f_c= 2.5 ksi

150 lbs/ft3

Flexure

A_s= 4.00

d= 50.0 in

M_r<φM_n ok

φM_n=φA_sf_y(d-a/2)= 10749 k-in = 895.8 k-ft

a=A_sf_y/0.85f_cb= 0.471 in

Check minimum

A_{smin}=2sqrt(f_c)bd/f_y= 30

200bd/f_y= 40.00

or 1.333A_s= 5.33 in²

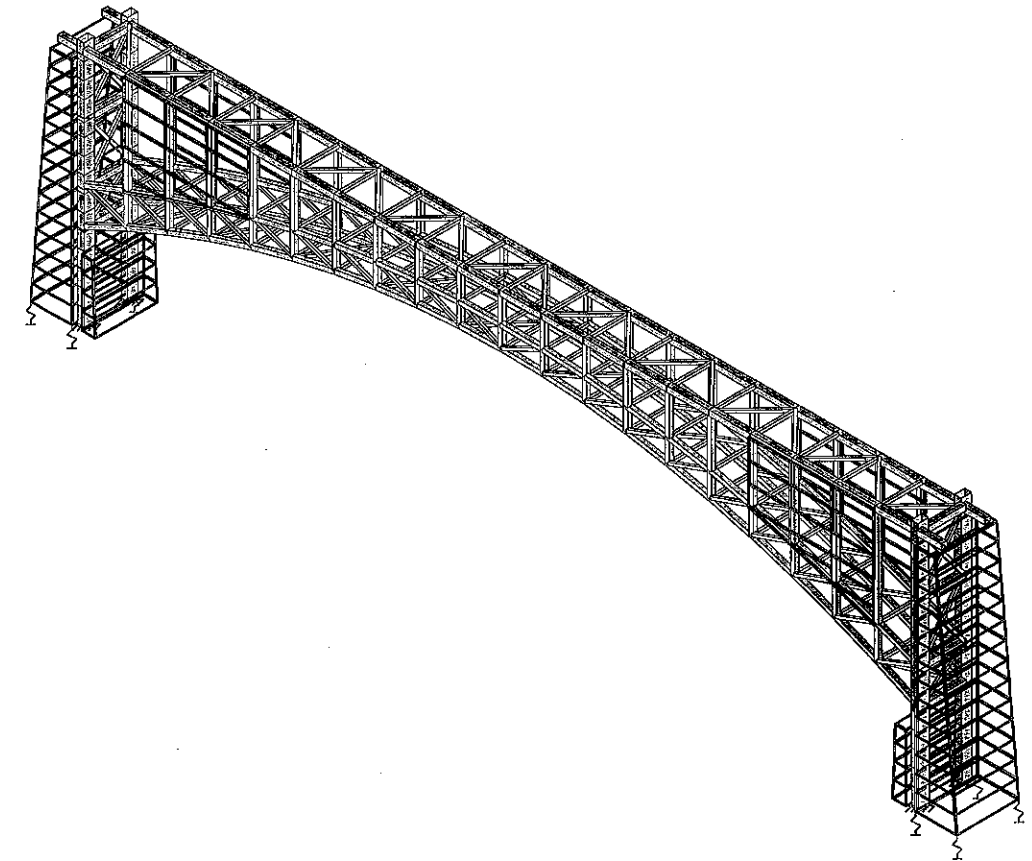
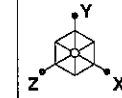
Use A_s= 5.33 in²

Shear; φV_n=φ2sqrt(f_c)bd

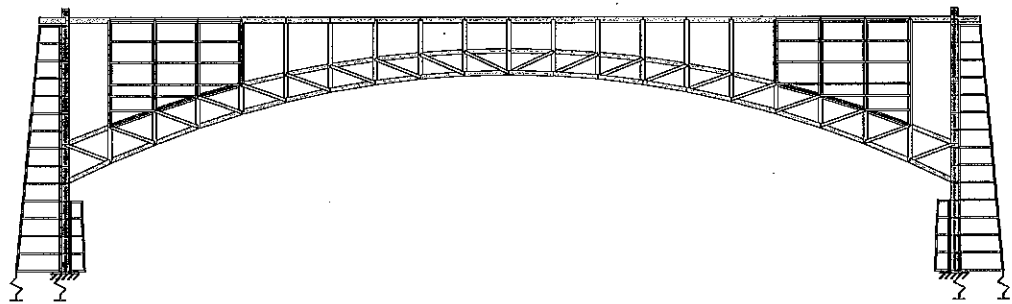
φV_c= 900.0

φ= 0.75

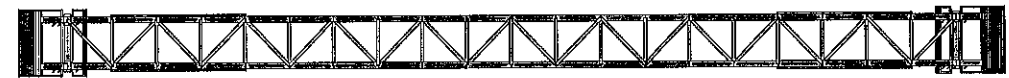
V_r<φV_n ok



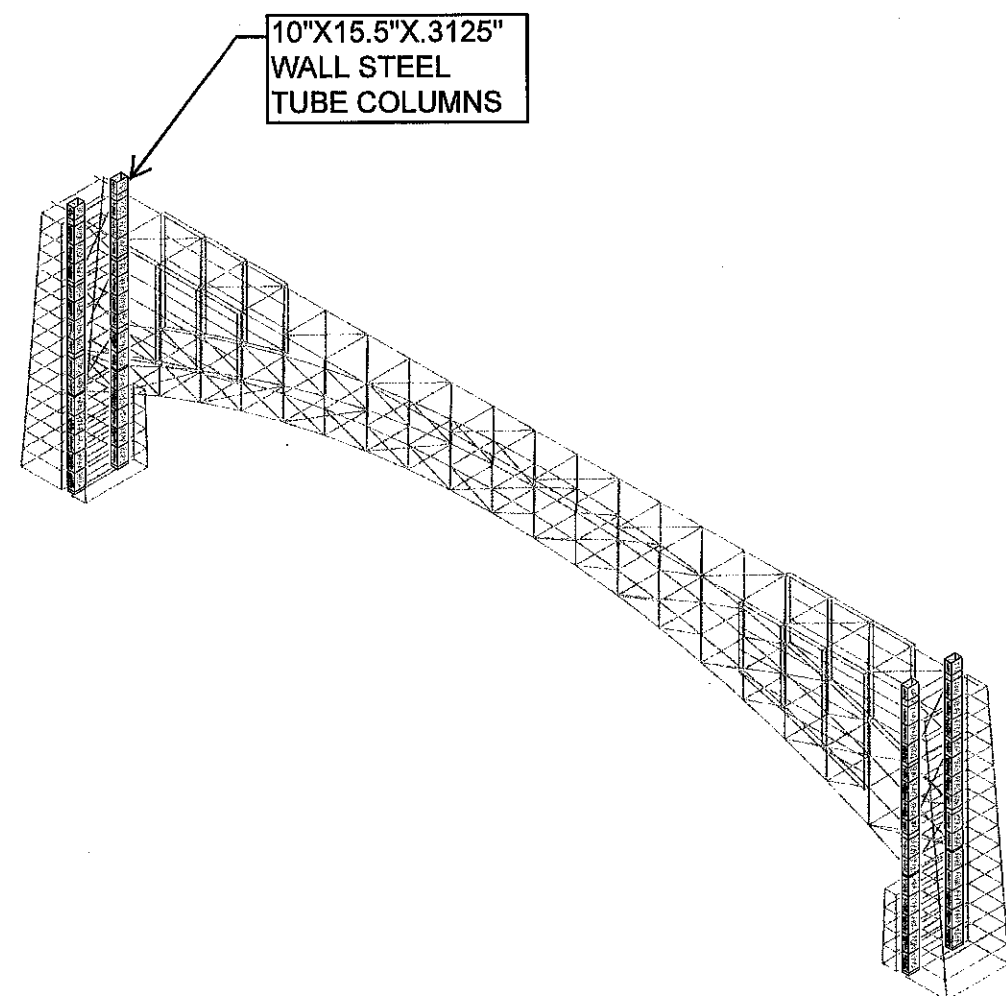
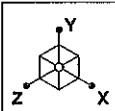
Envelope Only Solution



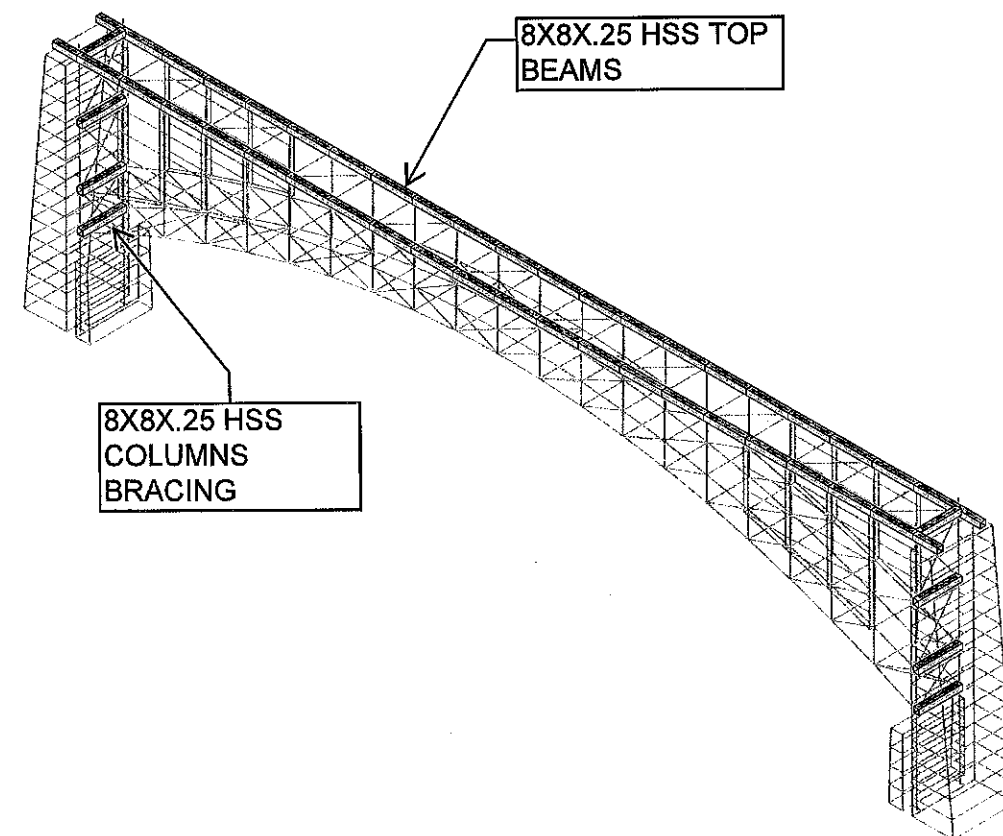
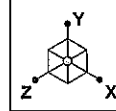
Envelope Only Solution



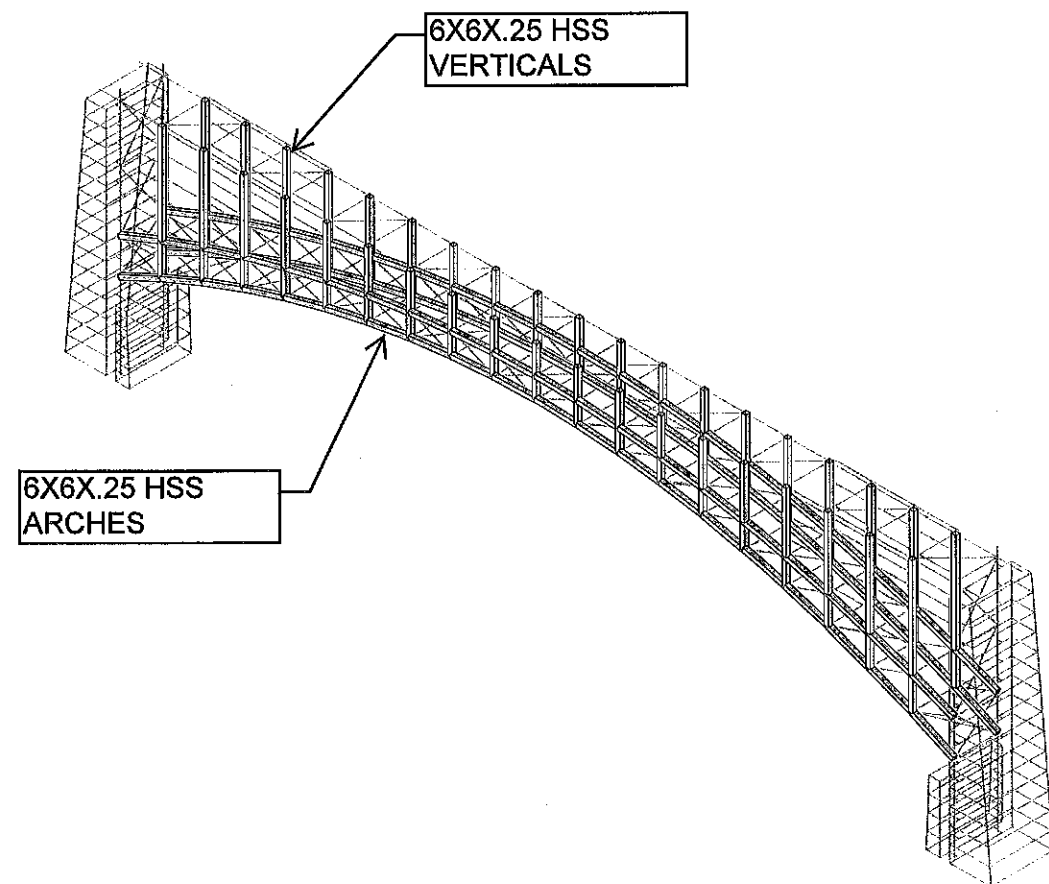
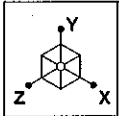
Envelope Only Solution



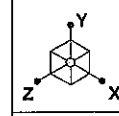
Envelope Only Solution



Envelope Only Solution

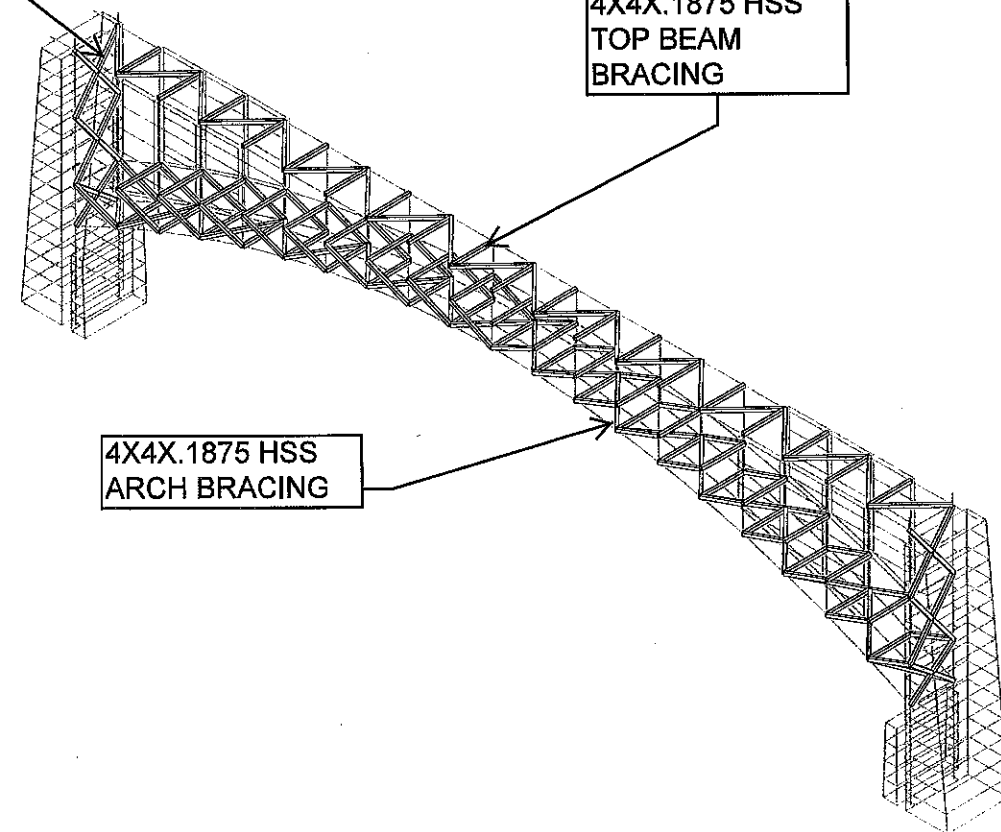


Envelope Only Solution

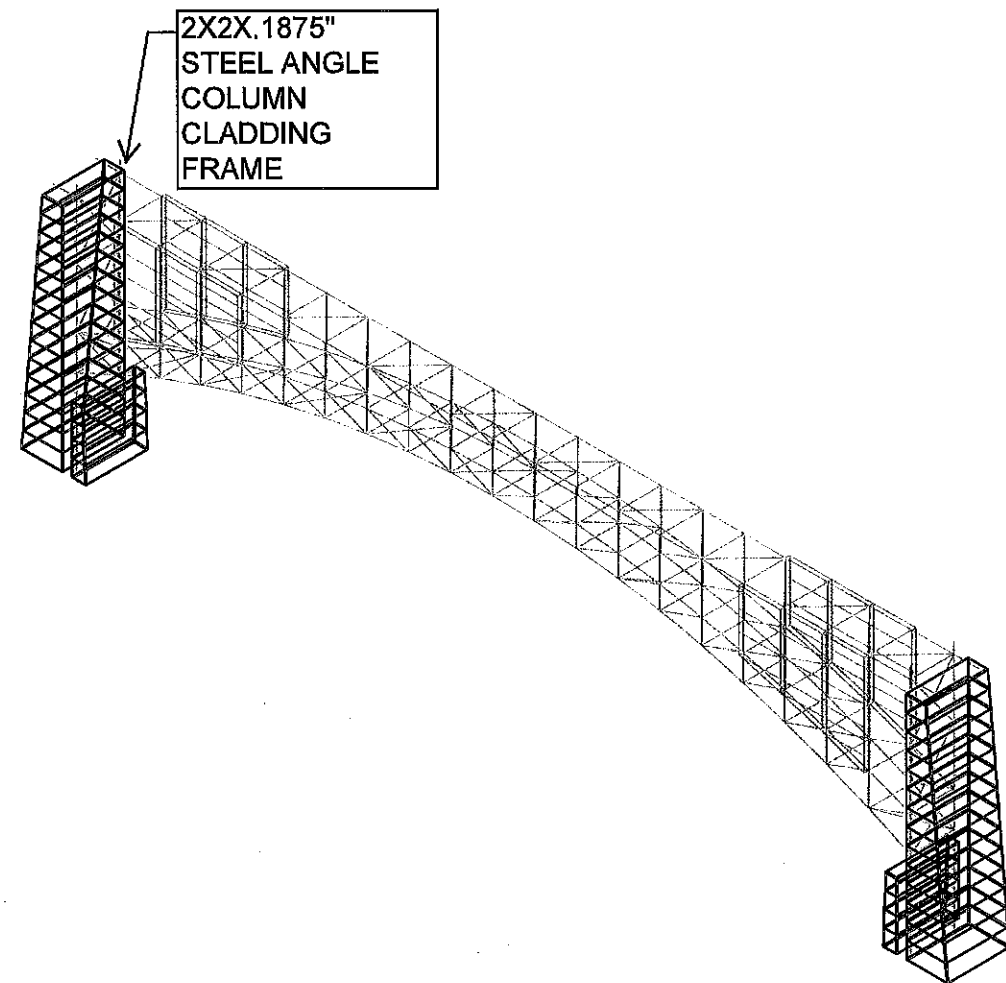
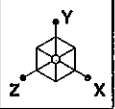


4X4X.1875 HSS
COLUMN
BRACING

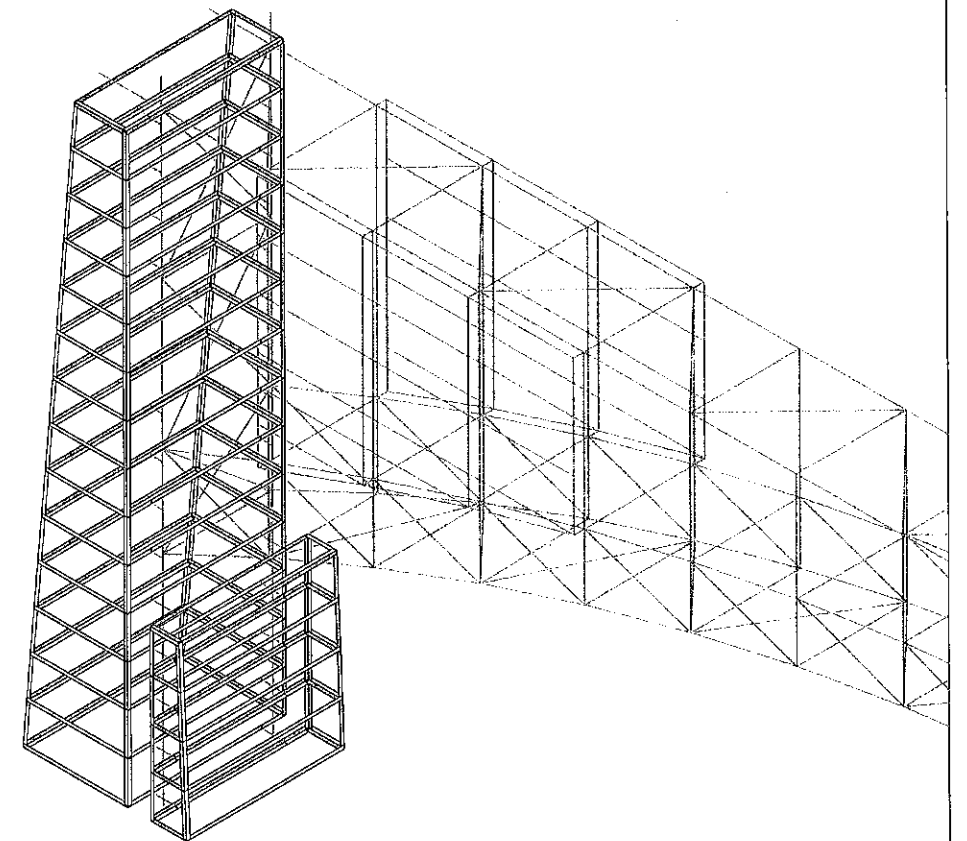
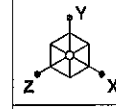
4X4X.1875 HSS
TOP BEAM
BRACING



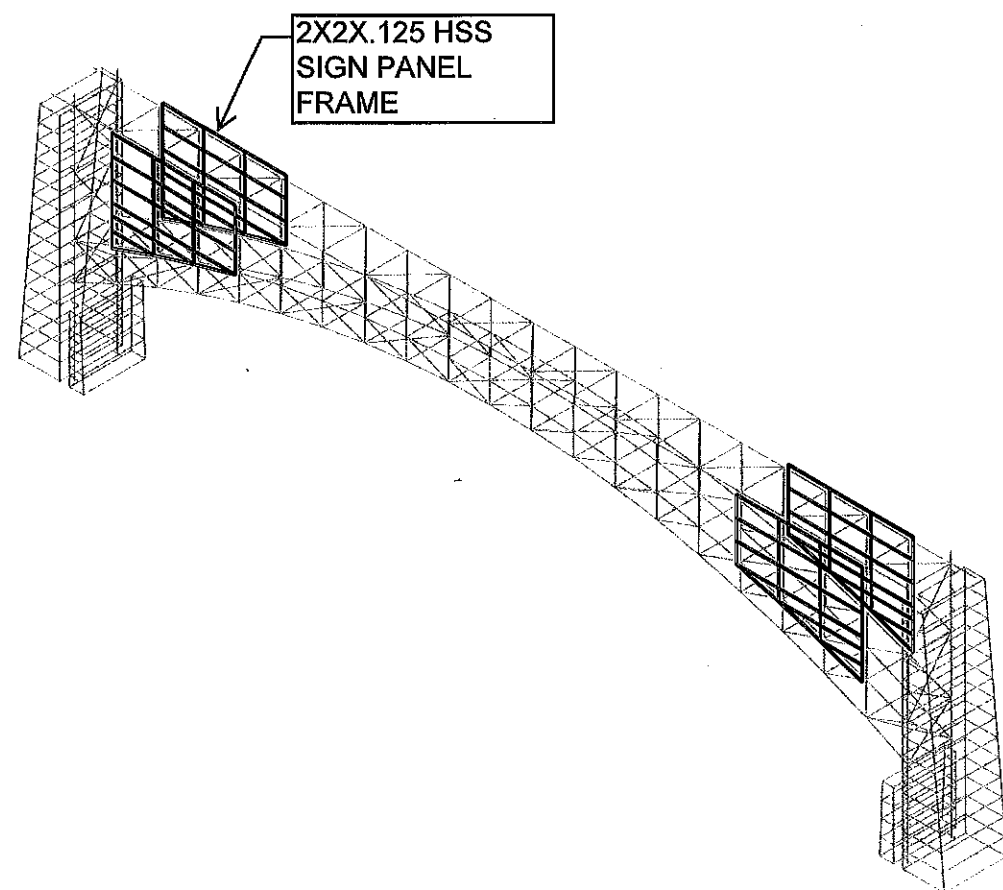
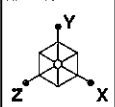
Envelope Only Solution



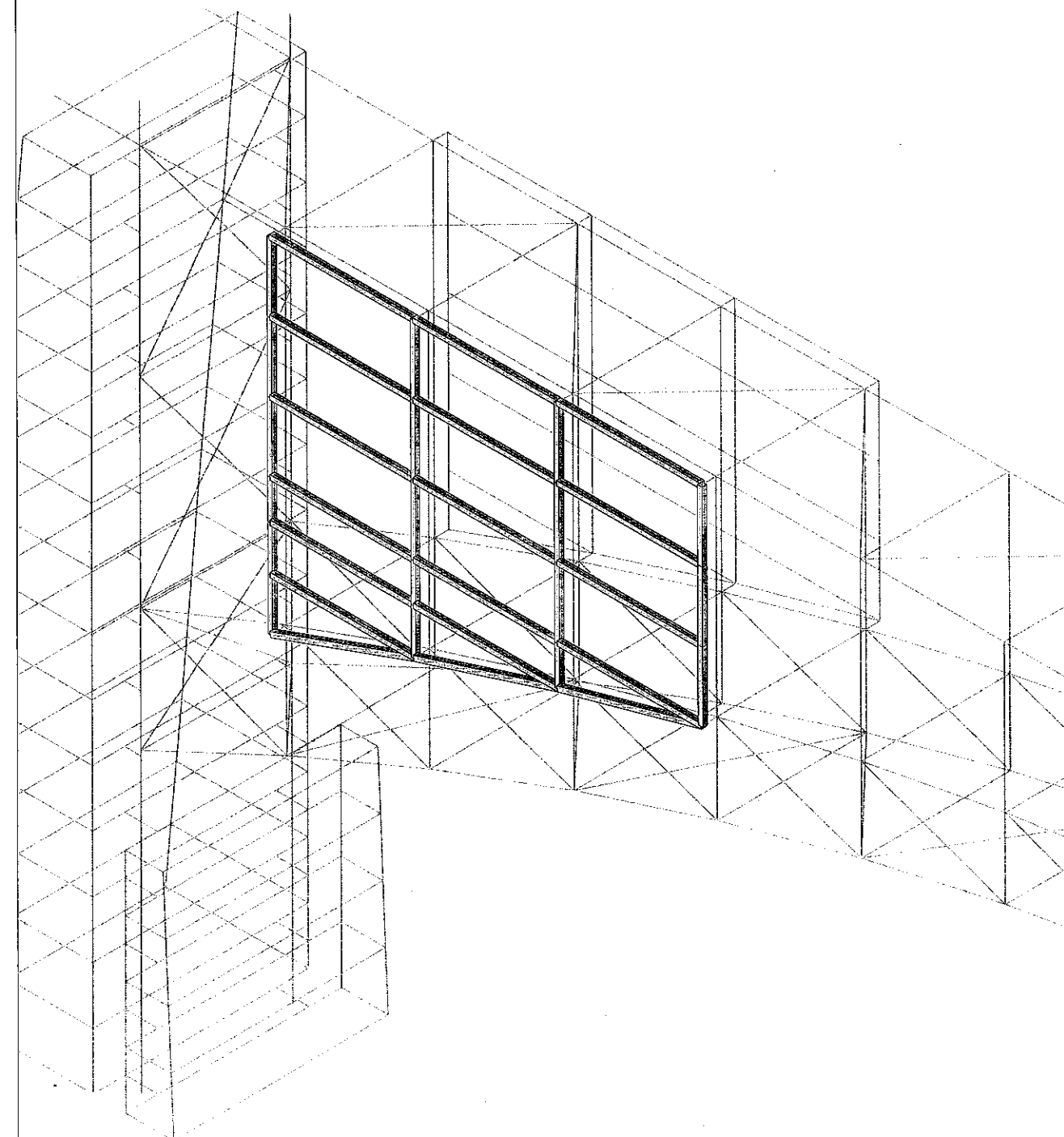
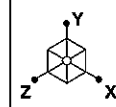
Envelope Only Solution



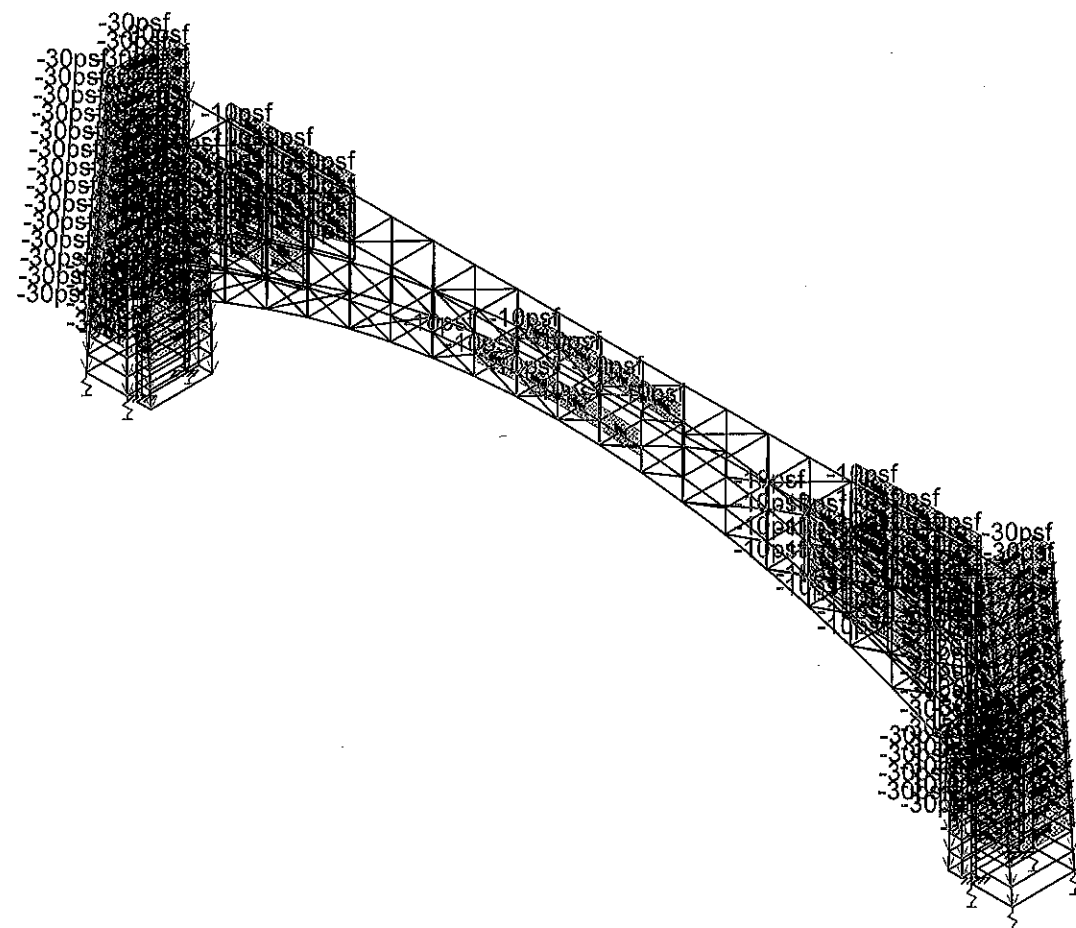
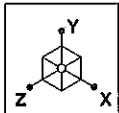
Envelope Only Solution



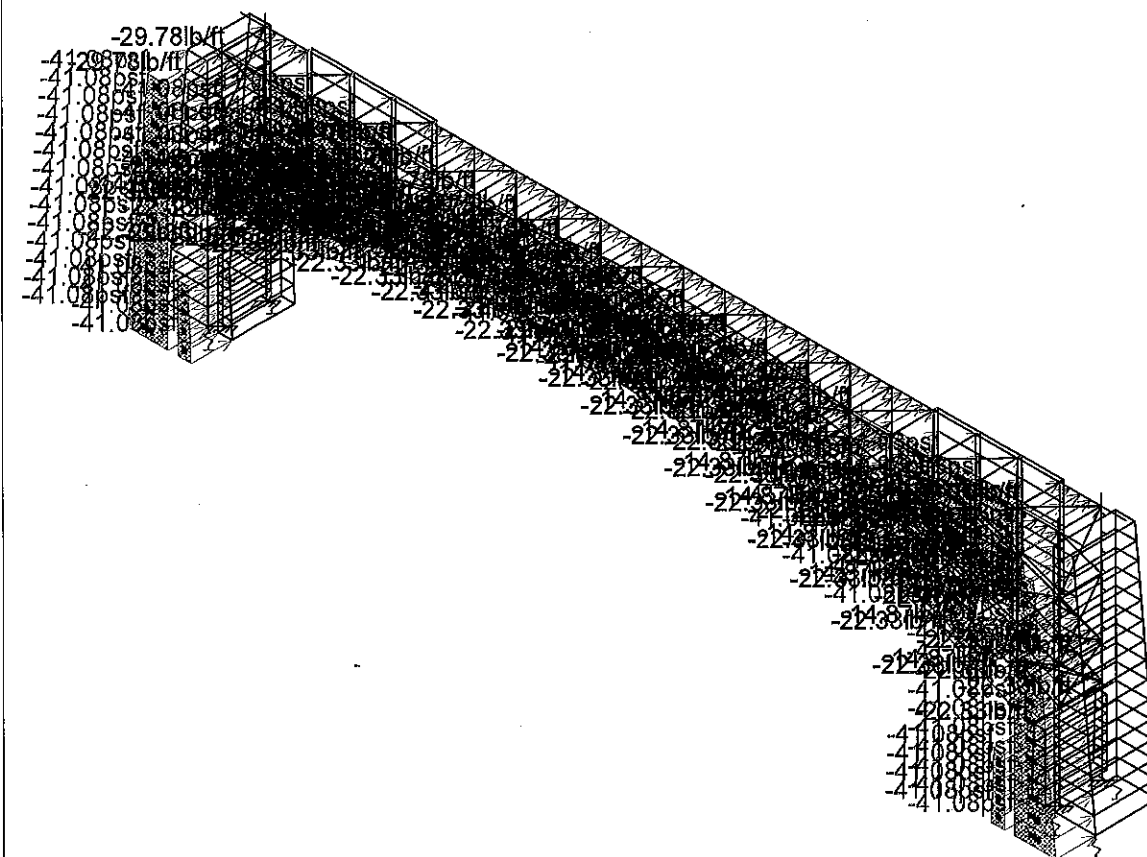
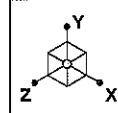
Envelope Only Solution



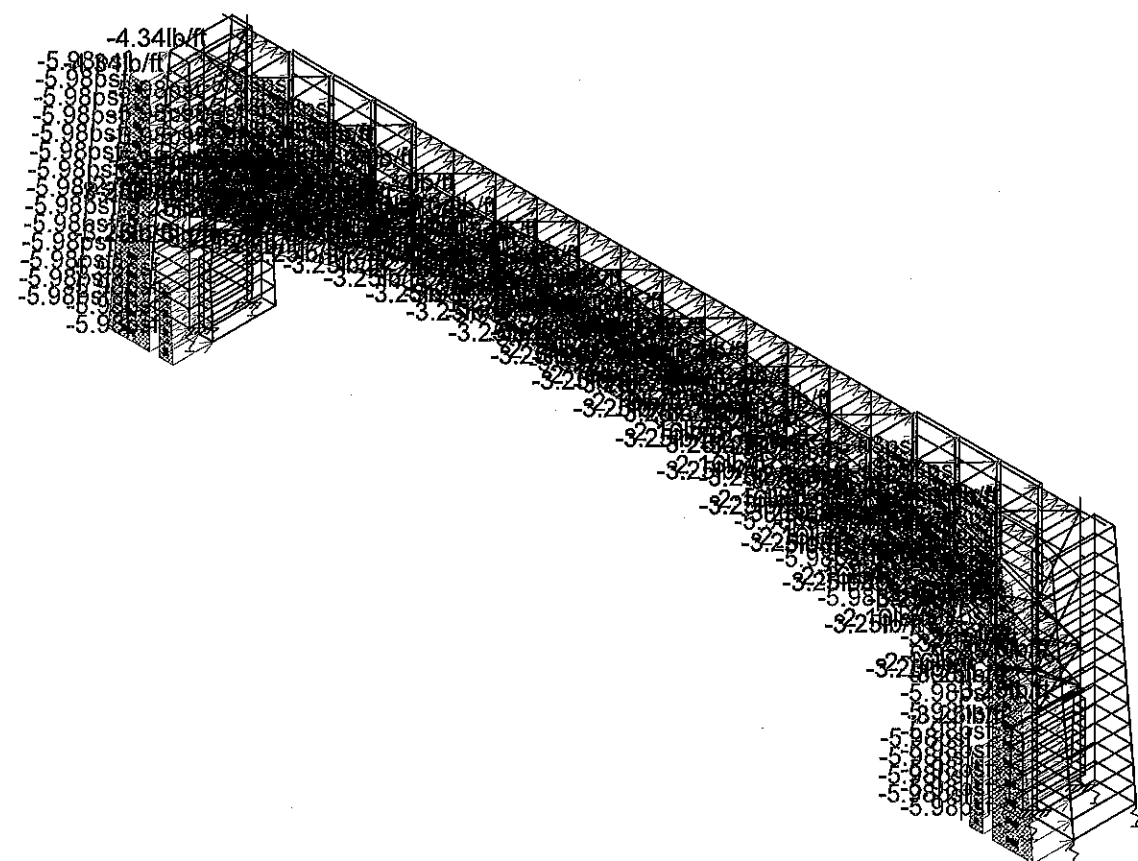
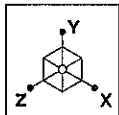
Envelope Only Solution



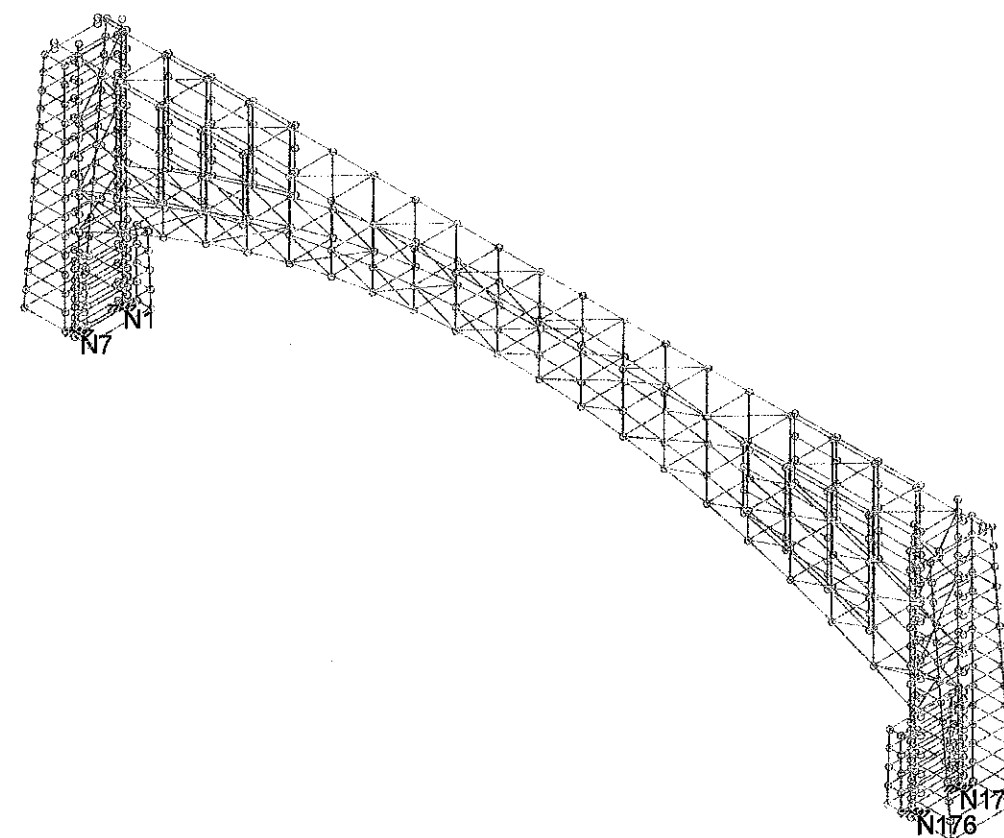
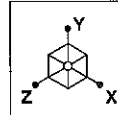
Loads: BLC 1, D
Envelope Only Solution



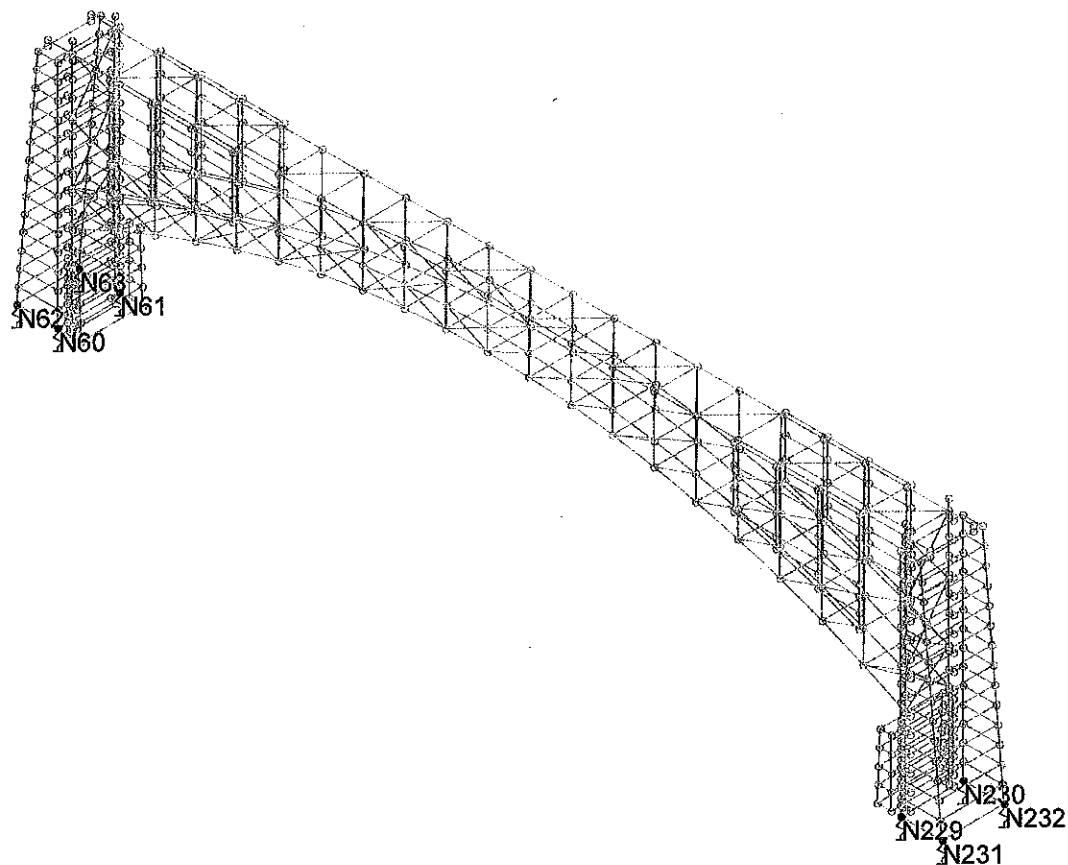
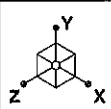
Loads: BLC 2, W
Envelope Only Solution



Loads: BLC 3, F
Envelope Only Solution



Envelope Only Solution



Envelope Only Solution

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (1/E...	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	10X15.5X.312 TUBE	10X15.5X.3...	Beam	SquareTube	A500 Gr.B Rect	Typical	15.523	269.886	531.088	543.092
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

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						196	104
3	F	None						196	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...	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	9.428	4	19.792	4	15.167	5	93.233	2	.366	4	19.161	2
2		min	-3.611	2	-82.993	2	.278	1	-.286	4	-10.354	2	-46.316	4
3	N1	max	11.936	5	97.732	5	14.274	2	92.577	5	-.184	1	-2.795	3
4		min	.551	3	11.682	3	-.347	4	.103	1	-11.106	5	-60.283	5
5	N170	max	-.551	3	97.721	5	14.274	2	92.577	5	11.107	5	60.284	5
6		min	-11.937	5	11.682	3	-.347	4	.103	1	.185	1	2.795	3
7	N176	max	3.611	2	19.803	4	15.167	5	93.233	2	10.354	2	46.315	4
8		min	-9.427	4	-82.992	2	.278	1	-.286	4	-.365	4	-19.161	2
9	N62	max	0	1	5.002	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	5.444	5	0	1	0	1	0	1	0	1
12		min	0	1	.145	3	0	1	0	1	0	1	0	1
13	N60	max	0	1	.634	4	0	1	0	1	0	1	0	1
14		min	0	1	0	2	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
15	N61	max	0	1	2.296	5	0	1	0	1	0	1	0	1
16		min	0	1	.254	3	0	1	0	1	0	1	0	1
17	N230	max	0	1	2.295	5	0	1	0	1	0	1	0	1
18		min	0	1	.254	3	0	1	0	1	0	1	0	1
19	N232	max	0	1	5.45	5	0	1	0	1	0	1	0	1
20		min	0	1	.145	3	0	1	0	1	0	1	0	1
21	N231	max	0	1	4.993	4	0	1	0	1	0	1	0	1
22		min	0	1	0	2	0	1	0	1	0	1	0	1
23	N229	max	0	1	.634	4	0	1	0	1	0	1	0	1
24		min	0	1	0	2	0	1	0	1	0	1	0	1
25	Totals:	max	0	5	101.832	4	58.195	6						
26		min	0	3	0	3	0	1						

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	10X15.5X3...	.787	0	5	.144	0	z	5	575.5...	H1-1b
2	M2	10X15.5X3...	.000	0	4	.000	0	z	4	575.0...	H1-1b
3	M3	10X15.5X3...	.474	0	5	.118	0	z	5	574.5...	H1-1b
4	M4	10X15.5X3...	.115	0	5	.020	0	z	5	574.8...	H1-1b
5	M5	10X15.5X3...	.040	0	5	.029	0	z	5	575.4...	H1-1b
6	M6	10X15.5X3...	.518	0	2	.121	0	y	5	575.5...	H1-1b
7	M7	10X15.5X3...	.000	0	4	.000	0	z	4	575.0...	H1-1b
8	M8	10X15.5X3...	.276	0	5	.075	0	z	4	574.5...	H1-1b
9	M9	10X15.5X3...	.079	0	2	.017	0	z	2	574.8...	H1-1b
10	M10	10X15.5X3...	.028	0	2	.027	0	y	2	575.4...	H1-1b
11	M11	HSS8x8x4	.064	0	5	.024	0	y	5	286.0...	H1-1b
12	M12	HSS8x8x4	.100	0	2	.036	0	y	5	286.0...	H1-1b
13	M13	HSS8x8x4	.384	63.5	5	.086	0	y	5	286.0...	H1-1b
14	M14	HSS8x8x4	.080	0	5	.037	0	y	5	286.0...	H1-1b
15	M15	HSS4x4x3	.068	53...	5	.006	0	z	5	98.733...	H1-1b
16	M16	HSS4x4x3	.078	53...	5	.004	0	y	2	98.733...	H1-1b
17	M17	HSS4x4x3	.277	41...	5	.012	0	z	5	101.9...	H1-1a
18	M18	HSS4x4x3	.349	41...	2	.044	0	y	5	101.9...	H1-1a
19	M19	HSS4x4x3	.090	53...	2	.005	0	y	5	98.733...	H1-1b
20	M20	HSS4x4x3	.069	0	2	.003	0	y	5	98.733...	H1-1b
21	M21	HSS4x4x3	.111	0	5	.003	0	y	5	98.733...	H1-...
22	M22	HSS4x4x3	.110	0	5	.004	0	z	2	98.733...	H1-...
23	M23	HSS4x4x3	.131	0	5	.007	0	z	5	98.733...	H1-...
24	M24	HSS4x4x3	.129	0	5	.006	53...	y	5	98.733...	H1-...
25	M25	HSS4x4x3	.394	0	5	.033	0	y	5	101.9...	H1-1a
26	M26	HSS4x4x3	.267	0	2	.010	0	z	4	101.9...	H1-1a
27	M27	HSS8x8x4	.002	36	4	.001	36	y	4	291.3...	H1-1b
28	M28	HSS8x8x4	.002	36	4	.001	36	y	4	291.3...	H1-1b
29	M29	10X15.5X3...	.497	0	2	.122	0	y	5	574.3...	H1-1b
30	M30	10X15.5X3...	.752	0	5	.139	0	z	5	574.3...	H1-1b
31	M31	10X15.5X3...	.346	0	2	.121	0	y	5	574.3...	H1-1b
32	M32	10X15.5X3...	.203	0	2	.121	0	y	5	574.3...	H1-1b
33	M33	10X15.5X3...	.208	24	5	.120	0	y	2	574.3...	H1-1b
34	M34	10X15.5X3...	.354	24	5	.122	0	y	2	574.3...	H1-1b
35	M35	10X15.5X3...	.509	0	5	.139	0	z	5	574.3...	H1-1b
36	M36	10X15.5X3...	.273	0	5	.141	0	z	5	574.3...	H1-1b
37	M37	10X15.5X3...	.367	24	5	.144	0	z	5	574.3...	H1-1b
38	M38	10X15.5X3...	.607	24	5	.150	0	z	5	574.3...	H1-1b
39	M49	L2x2x3	.454	13...	4	.058	.43	z	5	21.904...	H2-1
40	M50	L2x2x3	.296	0	5	.017	0	y	5	6.121...	H2-1
41	M51	L2x2x3	.590	0	5	.073	0	y	5	21.904...	H2-1
42	M52	L2x2x3	.577	13...	4	.082	13...	z	4	21.904...	H2-1
43	M53	L2x2x3	.256	0	5	.013	0	z	5	6.121...	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
44	M54	L2x2x3	.714	0	5	.095	0	z	5	21.904...	H2-1
45	M55	L2x2x3	.585	13...	4	.077	13...	z	4	21.904...	H2-1
46	M56	L2x2x3	.233	0	5	.012	0	z	5	6.121...	H2-1
47	M57	L2x2x3	.584	0	4	.077	0	z	4	21.904...	H2-1
48	M58	L2x2x3	.638	13...	5	.075	13...	z	5	21.904...	H2-1
49	M59	L2x2x3	.157	0	5	.008	0	z	5	6.121...	H2-1
50	M60	L2x2x3	.486	0	4	.060	0	z	4	21.904...	H2-1
51	M61	L2x2x3	.739	13...	5	.073	13...	z	5	21.904...	H2-1
52	M62	L2x2x3	.030	0	5	.002	0	z	5	6.121...	H2-1
53	M63	L2x2x3	.494	0	2	.054	0	z	2	21.904...	H2-1
54	M64	L2x2x3	.309	16	4	.056	0	y	4	21.399...	H2-1
55	M65	L2x2x3	.359	16	5	.056	0	z	4	21.399...	H2-1
56	M66	L2x2x3	.213	0	4	.024	24...	y	5	19.138...	H2-1
57	M67	L2x2x3	.256	0	5	.022	5.7...	z	4	19.138...	H2-1
58	M68	L2x2x3	.662	0	5	.030	0	z	5	2.981...	H2-1
59	M69	L2x2x3	.335	0	4	.017	0	y	5	2.981...	H2-1
60	M70	L2x2x3	.200	20	4	.027	0	z	4	20.354...	H2-1
61	M71	L2x2x3	.215	0	5	.035	0	y	5	20.354...	H2-1
62	M72	L2x2x3	.246	24	2	.023	24	z	2	19.145...	H2-1
63	M73	L2x2x3	.226	0	5	.024	0	y	4	19.145...	H2-1
64	M74	L2x2x3	.239	24	4	.027	0	z	5	19.145...	H2-1
65	M75	L2x2x3	.260	24	5	.031	0	z	5	19.145...	H2-1
66	M76	L2x2x3	.337	0	5	.031	0	y	5	19.145...	H2-1
67	M77	L2x2x3	.223	0	4	.024	0	z	4	19.145...	H2-1
68	M78	L2x2x3	.264	24	5	.026	0	z	4	19.145...	H2-1
69	M79	L2x2x3	.298	24	5	.021	0	z	5	19.145...	H2-1
70	M80	L2x2x3	.224	0	4	.024	.5	y	4	19.138...	H2-1
71	M81	L2x2x3	.228	24...	4	.026	0	z	4	19.138...	H2-1
72	M82	L2x2x3	.350	24...	4	.038	0	y	4	19.138...	H2-1
73	M83	L2x2x3	.295	0	5	.027	25	z	5	19.138...	H2-1
74	M84	L2x2x3	.260	0	5	.028	0	z	5	19.138...	H2-1
75	M85	L2x2x3	.414	24...	5	.044	0	z	5	19.138...	H2-1
76	M86	L2x2x3	.522	0	4	.063	0	z	4	21.155...	H2-1
77	M87	L2x2x3	.549	18	4	.064	0	z	4	20.899...	H2-1
78	M88	L2x2x3	.420	19	4	.050	0	z	4	20.632...	H2-1
79	M89	L2x2x3	.420	19	4	.050	0	y	4	20.632...	H2-1
80	M90	L2x2x3	.550	18	4	.064	0	y	4	20.899...	H2-1
81	M91	L2x2x3	.527	17	5	.063	0	y	4	21.155...	H2-1
82	M92	L2x2x3	.688	0	5	.033	0	y	5	2.981...	H2-1
83	M93	L2x2x3	.669	0	5	.033	0	y	5	2.981...	H2-1
84	M94	L2x2x3	.641	0	4	.031	0	y	5	2.981...	H2-1
85	M95	L2x2x3	.578	13...	5	.085	13...	y	5	21.904...	H2-1
86	M96	L2x2x3	.032	0	5	.002	0	y	5	6.121...	H2-1
87	M97	L2x2x3	.654	0	5	.068	0	y	2	21.904...	H2-1
88	M100	L2x2x3	.524	0	5	.026	60	z	5	6.856...	H2-1
89	M101	L2x2x3	.365	91	5	.018	0	z	5	2.981...	H2-1
90	M102	L2x2x3	.414	0	2	.032	0	z	6	6.856...	H2-1
91	M103	10X15.5X3...	.626	2	5	.152	0	z	5	575.5...	H1-1b
92	M104	10X15.5X3...	.366	2	5	.123	0	y	2	575.5...	H1-1b
93	M105	10X15.5X3...	.264	0	5	.118	0	z	5	574.3...	H1-1b
94	M106	10X15.5X3...	.123	6	5	.119	0	z	5	575.4...	H1-1b
95	M107	10X15.5X3...	.183	0	5	.074	0	z	4	574.3...	H1-1b
96	M108	10X15.5X3...	.084	6	2	.074	0	z	4	575.4...	H1-1b
97	M109	10X15.5X3...	.097	0	5	.022	0	z	5	574.3...	H1-1b
98	M110	10X15.5X3...	.065	0	2	.019	0	z	2	574.3...	H1-1b
99	M111	10X15.5X3...	.075	0	5	.024	0	z	5	574.3...	H1-1b
100	M112	10X15.5X3...	.057	0	5	.025	0	z	5	574.8...	H1-...
101	M113	10X15.5X3...	.049	0	2	.020	0	z	2	574.3...	H1-1b
102	M114	10X15.5X3...	.034	0	2	.022	0	z	2	574.8...	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
103	M115	10X15.5X3...	.036	0	5	.030	0	z	5	574.3...	H1-1b
104	M116	10X15.5X3...	.025	0	2	.027	0	y	5	574.3...	H1-1b
105	M117	10X15.5X3...	.030	24	5	.032	0	z	5	574.3...	H1-1b
106	M118	10X15.5X3...	.053	24	5	.033	0	z	5	574.3...	H1-1b
107	M119	10X15.5X3...	.023	24	2	.028	0	y	2	574.3...	H1-1b
108	M120	10X15.5X3...	.036	24	2	.029	0	z	2	574.3...	H1-1b
109	M121	10X15.5X3...	.061	8	5	.030	0	z	5	575.4...	H1-1b
110	M122	10X15.5X3...	.039	8	2	.031	0	z	6	575.4...	H1-1b
111	M123	L2x2x3	.374	0	2	.017	0	z	5	21.904	H2-1
112	M124	L2x2x3	.147	0	5	.008	0	y	5	6.121	H2-1
113	M125	L2x2x3	.590	0	5	.039	0	y	2	21.904	H2-1
114	M128	L2x2x3	.491	13...	5	.054	0	y	5	21.904	H2-1
115	M129	L2x2x3	.199	0	5	.010	0	y	5	6.121	H2-1
116	M130	L2x2x3	.555	13...	5	.031	0	y	5	21.904	H2-1
117	M133	L2x2x3	.638	13...	5	.074	0	y	5	21.904	H2-1
118	M134	L2x2x3	.196	0	2	.010	0	y	5	6.121	H2-1
119	M135	L2x2x3	.574	13...	5	.045	0	y	5	21.904	H2-1
120	M138	L2x2x3	.534	13...	5	.063	0	y	5	21.904	H2-1
121	M139	L2x2x3	.170	0	5	.008	0	y	5	6.121	H2-1
122	M140	L2x2x3	.568	13...	5	.050	0	y	5	21.904	H2-1
123	M143	L2x2x3	.502	13...	5	.041	0	y	2	21.904	H2-1
124	M144	L2x2x3	.114	0	5	.004	0	y	5	6.121	H2-1
125	M145	L2x2x3	.552	13...	5	.049	0	y	5	21.904	H2-1
126	M148	L2x2x3	.427	13...	5	.044	13...	y	4	21.904	H2-1
127	M149	L2x2x3	.069	0	5	.003	0	y	5	6.121	H2-1
128	M150	L2x2x3	.484	13...	5	.047	0	y	5	21.904	H2-1
129	M153	L2x2x3	.401	13...	4	.054	13...	y	4	21.904	H2-1
130	M154	L2x2x3	.055	0	5	.003	0	y	5	6.121	H2-1
131	M155	L2x2x3	.475	13...	5	.054	0	y	4	21.904	H2-1
132	M158	L2x2x3	.380	13...	4	.052	13...	y	4	21.904	H2-1
133	M159	L2x2x3	.063	0	5	.003	0	y	5	6.121	H2-1
134	M160	L2x2x3	.469	13...	5	.058	0	y	5	21.904	H2-1
135	M163	L2x2x3	.357	13...	4	.050	13...	y	4	21.904	H2-1
136	M164	L2x2x3	.063	0	5	.003	0	y	5	6.121	H2-1
137	M165	L2x2x3	.479	0	5	.062	0	y	5	21.904	H2-1
138	M168	L2x2x3	.342	13...	4	.048	13...	y	4	21.904	H2-1
139	M169	L2x2x3	.055	0	5	.003	0	y	5	6.121	H2-1
140	M170	L2x2x3	.494	0	5	.064	0	y	5	21.904	H2-1
141	M173	L2x2x3	.342	13...	4	.051	13...	y	4	21.904	H2-1
142	M174	L2x2x3	.047	0	5	.003	0	y	5	6.121	H2-1
143	M175	L2x2x3	.522	0	5	.069	0	y	5	21.904	H2-1
144	M178	L2x2x3	.343	13...	4	.050	13...	y	4	21.904	H2-1
145	M179	L2x2x3	.041	0	5	.003	0	y	5	6.121	H2-1
146	M180	L2x2x3	.532	0	5	.071	0	y	5	21.904	H2-1
147	M183	L2x2x3	.349	13...	4	.054	13...	y	4	21.904	H2-1
148	M184	L2x2x3	.039	0	5	.003	0	y	5	6.121	H2-1
149	M185	L2x2x3	.541	0	5	.077	0	y	5	21.904	H2-1
150	M188	L2x2x3	.492	13...	4	.077	0	y	4	21.904	H2-1
151	M189	L2x2x3	.216	0	5	.019	0	z	4	6.121	H2-1
152	M190	L2x2x3	.689	0	5	.087	0	y	5	21.904	H2-1
153	M193	L2x2x3	.627	0	4	.033	0	y	4	21.904	H2-1
154	M194	L2x2x3	.511	33...	4	.032	63.5	y	4	6.121	H2-1
155	M195	L2x2x3	.657	13...	4	.038	13...	y	4	21.904	H2-1
156	M196	L2x2x3	.388	0	4	.047	0	y	4	17.459	H2-1
157	M197	L2x2x3	.498	0	5	.050	0	z	5	17.459	H2-1
158	M198	L2x2x3	.657	0	5	.027	0	y	5	19.112	H2-1
159	M199	L2x2x3	.577	24...	4	.026	0	z	4	19.112	H2-1
160	M200	L2x2x3	.532	0	5	.037	0	z	5	19.145	H2-1
161	M201	L2x2x3	.315	0	2	.014	0	y	2	19.145	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
162	M202	L2x2x3	.252	0	2	.017	0	y	2	19.145	H2-1
163	M203	L2x2x3	.222	24	2	.016	0	y	2	19.145	H2-1
164	M204	L2x2x3	.200	24	2	.014	0	y	2	19.145	H2-1
165	M205	L2x2x3	.224	0	4	.020	0	y	4	19.145	H2-1
166	M206	L2x2x3	.197	0	4	.021	0	y	4	19.145	H2-1
167	M207	L2x2x3	.191	24	4	.019	0	y	4	19.145	H2-1
168	M208	L2x2x3	.200	24	4	.018	0	y	4	19.145	H2-1
169	M209	L2x2x3	.199	24	4	.018	0	y	4	19.145	H2-1
170	M210	L2x2x3	.236	24	4	.020	0	y	4	19.145	H2-1
171	M211	L2x2x3	.256	24	4	.023	0	y	4	19.145	H2-1
172	M212	L2x2x3	.295	24	4	.025	0	y	4	19.145	H2-1
173	M213	L2x2x3	.389	24	4	.028	0	y	4	19.145	H2-1
174	M216	L2x2x3	.508	0	2	.035	0	y	2	19.145	H2-1
175	M217	L2x2x3	.302	0	5	.023	0	z	5	19.145	H2-1
176	M218	L2x2x3	.257	0	5	.022	0	z	5	19.145	H2-1
177	M219	L2x2x3	.248	0	5	.021	0	z	5	19.145	H2-1
178	M220	L2x2x3	.259	0	5	.022	0	z	5	19.145	H2-1
179	M221	L2x2x3	.283	0	5	.023	0	z	5	19.145	H2-1
180	M222	L2x2x3	.276	24	5	.022	0	z	5	19.145	H2-1
181	M223	L2x2x3	.283	24	5	.024	13	z	5	19.145	H2-1
182	M224	L2x2x3	.287	24	5	.025	1	z	5	19.145	H2-1
183	M225	L2x2x3	.283	24	5	.026	1.5	z	5	19.145	H2-1
184	M226	L2x2x3	.291	24	5	.025	0	z	5	19.145	H2-1
185	M227	L2x2x3	.313	24	5	.030	0	z	5	19.145	H2-1
186	M228	L2x2x3	.347	24	5	.031	0	z	5	19.145	H2-1
187	M229	L2x2x3	.446	24	5	.036	0	z	5	19.145	H2-1
188	M230	L2x2x3	.668	0	5	.024	7.7...	y	5	19.112	H2-1
189	M231	L2x2x3	.632	0	5	.027	0	y	5	19.112	H2-1
190	M232	L2x2x3	.612	0	5	.030	1.7...	y	5	19.112	H2-1
191	M233	L2x2x3	.562	0	5	.030	0	y	5	19.112	H2-1
192	M234	L2x2x3	.480	0	5	.028	6.2...	y	5	19.112	H2-1
193	M235	L2x2x3	.415	0	5	.025	0	y	5	19.112	H2-1
194	M236	L2x2x3	.378	0	5	.023	0	y	5	19.112	H2-1
195	M237	L2x2x3	.356	0	5	.023	1.0...	y	5	19.112	H2-1
196	M238	L2x2x3	.335	0	5	.023	0	y	5	19.112	H2-1
197	M239	L2x2x3	.324	0	5	.023	1.0...	y	5	19.112	H2-1
198	M240	L2x2x3	.301	0	5	.023	0	y	5	19.112	H2-1
199	M241	L2x2x3	.278	0	5	.022	.753	y	5	19.112	H2-1
200	M242	L2x2x3	.447	24...	4	.052	0	y	4	19.112	H2-1
201	M243	L2x2x3	.563	24...	4	.021	.753	z	4	19.112	H2-1
202	M244	L2x2x3	.528	0	4	.020	1.2...	z	4	19.112	H2-1
203	M245	L2x2x3	.506	0	4	.022	0	z	4	19.112	H2-1
204	M246	L2x2x3	.468	0	4	.024	0	z	4	19.112	H2-1
205	M247	L2x2x3	.417	0	4	.024	24...	z	5	19.112	H2-1
206	M248	L2x2x3	.361	0	4	.023	24...	z	5	19.112	H2-1
207	M249	L2x2x3	.326	0	4	.023	24...	z	5	19.112	H2-1
208	M250	L2x2x3	.302	0	4	.023	24...	z	5	19.112	H2-1
209	M251	L2x2x3	.281	0	4	.023	24...	z	5	19.112	H2-1
210	M252	L2x2x3	.261	0	4	.023	0	y	5	19.112	H2-1
211	M253	L2x2x3	.246	0	4	.023	0	y	5	19.112	H2-1
212	M254	L2x2x3	.299	24...	5	.029	0	y	5	19.112	H2-1
213	M255	L2x2x3	.471	24...	4	.051	9.0...	z	4	19.112	H2-1
214	M256	L2x2x3	.635	0	4	.031	0	z	4	2.981	H2-1
215	M257	L2x2x3	.626	0	4	.031	0	z	4	2.981	H2-1
216	M258	L2x2x3	.626	0	4	.031	0	z	4	2.981	H2-1
217	M259	L2x2x3	.627	0	4	.031	0	z	4	2.981	H2-1
218	M260	L2x2x3	.630	0	4	.031	0	z	4	2.981	H2-1
219	M261	L2x2x3	.634	91	4	.031	0	z	4	2.981	H2-1
220	M262	L2x2x3	.634	91	4	.031	91	z	4	2.981	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
221	M263	L2x2x3	.635	91	4	.031	91 z 4	2.981	23.393	.558	.975	H2-1
222	M264	L2x2x3	.636	91	4	.031	91 z 4	2.981	23.393	.558	.975	H2-1
223	M265	L2x2x3	.638	91	4	.031	91 z 4	2.981	23.393	.558	.976	H2-1
224	M266	L2x2x3	.636	91	4	.031	91 z 4	2.981	23.393	.558	.975	H2-1
225	M267	L2x2x3	.637	0	4	.031	0 z 4	2.981	23.393	.558	.974	H2-1
226	M268	L2x2x3	.674	0	4	.034	0 z 4	2.981	23.393	.558	1.001	H2-1
227	M269	L2x2x3	.572	0	4	.046	0 z 4	16.667	23.393	.558	1.239	H2-1
228	M270	L2x2x3	.575	0	4	.046	0 z 4	15.858	23.393	.558	1.239	H2-1
229	M271	L2x2x3	.545	0	4	.044	0 z 4	15.036	23.393	.558	1.239	H2-1
230	M272	L2x2x3	.467	0	4	.031	0 z 4	14.208	23.393	.558	1.239	H2-1
231	M273	L2x2x3	.461	0	4	.031	0 z 4	13.381	23.393	.558	1.239	H2-1
232	M274	L2x2x3	.454	0	4	.030	0 z 4	12.558	23.393	.558	1.239	H2-1
233	M275	L2x2x3	.445	0	4	.029	0 z 4	11.746	23.393	.558	1.239	H2-1
234	M276	L2x2x3	.400	0	4	.026	0 z 4	10.949	23.393	.558	1.239	H2-1
235	M277	L2x2x3	.351	0	4	.032	0 z 4	10.171	23.393	.558	1.239	H2-1
236	M278	L2x2x3	.312	0	5	.037	51... z 5	9.417	23.393	.558	1.228	H2-1
237	M279	L2x2x3	.365	53...	5	.042	53... z 5	8.669	23.393	.558	1.213	H2-1
238	M280	L2x2x3	.390	0	5	.042	55... z 5	7.992	23.393	.558	1.202	H2-1
239	M281	L2x2x3	.465	0	5	.038	57... z 5	7.392	23.393	.558	1.183	H2-1
240	M282	L2x2x3	.623	0	5	.053	0 y 5	16.667	23.393	.558	1.239	H2-1
241	M283	L2x2x3	.623	0	5	.052	0 y 5	15.858	23.393	.558	1.239	H2-1
242	M284	L2x2x3	.570	0	5	.049	0 y 5	15.036	23.393	.558	1.239	H2-1
243	M285	L2x2x3	.510	0	5	.036	0 y 5	14.208	23.393	.558	1.239	H2-1
244	M286	L2x2x3	.477	0	5	.036	0 y 5	13.381	23.393	.558	1.239	H2-1
245	M287	L2x2x3	.454	0	4	.034	0 y 5	12.558	23.393	.558	1.239	H2-1
246	M288	L2x2x3	.444	0	4	.032	0 y 5	11.746	23.393	.558	1.239	H2-1
247	M289	L2x2x3	.399	0	4	.030	0 y 5	10.949	23.393	.558	1.239	H2-1
248	M290	L2x2x3	.430	0	2	.041	0 z 6	10.171	23.393	.558	1.192	H2-1
249	M291	L2x2x3	.468	0	2	.044	0 z 2	9.417	23.393	.558	1.196	H2-1
250	M292	L2x2x3	.509	0	2	.046	0 z 2	8.669	23.393	.558	1.195	H2-1
251	M293	L2x2x3	.546	0	2	.047	0 z 2	7.992	23.393	.558	1.188	H2-1
252	M294	L2x2x3	.591	0	2	.046	0 z 2	7.392	23.393	.558	1.179	H2-1
253	M295	10X15.5X.3...	.787	0	5	.144	0 z 5	575.5...	642.6...	164.327	276.556	H1-1b
254	M296	10X15.5X.3...	.000	0	4	.000	0 z 4	575.0...	642.6...	164.327	276.556	H1-1b
255	M297	10X15.5X.3...	.474	0	5	.118	0 z 5	574.5...	642.6...	164.327	276.556	H1-1b
256	M298	10X15.5X.3...	.115	0	5	.020	0 z 5	574.8...	642.6...	164.327	276.556	H1-1b
257	M299	10X15.5X.3...	.040	0	5	.029	0 z 5	575.4...	642.6...	164.327	276.556	H1-1b
258	M300	10X15.5X.3...	.518	0	2	.121	0 y 5	575.5...	642.6...	164.327	276.556	H1-1b
259	M301	10X15.5X.3...	.000	0	4	.000	0 z 4	575.0...	642.6...	164.327	276.556	H1-1b
260	M302	10X15.5X.3...	.276	0	5	.075	0 z 4	574.5...	642.6...	164.327	276.556	H1-1b
261	M303	10X15.5X.3...	.079	0	2	.017	0 z 2	574.8...	642.6...	164.327	276.556	H1-1b
262	M304	10X15.5X.3...	.028	0	2	.027	0 y 2	575.4...	642.6...	164.327	276.556	H1-1b
263	M305	HSS8x8x4	.064	0	5	.024	0 y 5	286.0...	293.94	66.288	66.288	H1-1b
264	M306	HSS8x8x4	.100	0	2	.036	0 y 5	286.0...	293.94	66.288	66.288	H1-1b
265	M307	HSS8x8x4	.384	63.5	5	.086	0 y 5	286.0...	293.94	66.288	66.288	H1-1b
266	M308	HSS8x8x4	.080	0	5	.037	0 y 5	286.0...	293.94	66.288	66.288	H1-1b
267	M309	HSS4x4x3	.068	53...	5	.006	0 z 5	98.733	106.8...	12.662	12.662	H1-1b
268	M310	HSS4x4x3	.078	53...	5	.004	0 y 2	98.733	106.8...	12.662	12.662	H1-1b
269	M311	HSS4x4x3	.277	41...	5	.012	0 z 5	101.9...	106.8...	12.662	12.662	H1-1a
270	M312	HSS4x4x3	.349	41...	2	.044	0 y 5	101.9...	106.8...	12.662	12.662	H1-1a
271	M313	HSS4x4x3	.090	53...	2	.005	0 y 5	98.733	106.8...	12.662	12.662	H1-1b
272	M314	HSS4x4x3	.069	0	2	.003	0 y 5	98.733	106.8...	12.662	12.662	H1-1b
273	M315	HSS4x4x3	.111	0	5	.003	0 y 5	98.733	106.8...	12.662	12.662	H1-1b
274	M316	HSS4x4x3	.110	0	5	.004	0 z 2	98.733	106.8...	12.662	12.662	H1-1b
275	M317	HSS4x4x3	.131	0	5	.007	0 z 5	98.733	106.8...	12.662	12.662	H1-1b
276	M318	HSS4x4x3	.129	0	5	.006	53... y 5	98.733	106.8...	12.662	12.662	H1-1b
277	M319	HSS4x4x3	.394	0	5	.033	0 y 5	101.9...	106.8...	12.662	12.662	H1-1a
278	M320	HSS4x4x3	.267	0	2	.010	0 z 4	101.9...	106.8...	12.662	12.662	H1-1a
279	M321	HSS8x8x4	.002	36	4	.001	36 y 4	291.3...	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...	Egn			
280	M322	HSS8x8x4	.002	36	4	.001	36	y	4	291.3...	293.94	66.288	66.288	...	H1-1b
281	M323	10X15.5X.3...	.497	0	2	.122	0	y	5	574.3...	642.6...	164.327	276.556	...	H1-1b
282	M324	10X15.5X.3...	.752	0	5	.139	0	z	5	574.3...	642.6...	164.327	276.556	...	H1-1b
283	M325	10X15.5X.3...	.346	0	2	.121	0	y	5	574.3...	642.6...	164.327	276.556	...	H1-1b
284	M326	10X15.5X.3...	.203	0	2	.121	0	y	5	574.3...	642.6...	164.327	276.556	...	H1-1b
285	M327	10X15.5X.3...	.208	24	5	.120	0	y	2	574.3...	642.6...	164.327	276.556	...	H1-1b
286	M328	10X15.5X.3...	.354	24	5	.122	0	y	2	574.3...	642.6...	164.327	276.556	...	H1-1b
287	M329	10X15.5X.3...	.509	0	5	.139	0	z	5	574.3...	642.6...	164.327	276.556	...	H1-1b
288	M330	10X15.5X.3...	.273	0	5	.141	0	z	5	574.3...	642.6...	164.327	276.556	...	H1-1b
289	M331	10X15.5X.3...	.367	24	5	.144	0	z	5	574.3...	642.6...	164.327	276.556	...	H1-1b
290	M332	10X15.5X.3...	.607	24	5	.150	0	z	5	574.3...	642.6...	164.327	276.556	...	H1-1b
291	M343	L2x2x3	.454	13...	4	.058	0	y	5	21.904	23.393	.558	1.239	...	H2-1
292	M344	L2x2x3	.296	0	5	.017	0	z	5	6.121	23.393	.558	1.205	...	H2-1
293	M345	L2x2x3	.590	0	5	.073	0	z	5	21.904	23.393	.558	1.239	...	H2-1
294	M346	L2x2x3	.577	13...	4	.082	13...	y	4	21.904	23.393	.558	1.239	...	H2-1
295	M347	L2x2x3	.256	0	5	.013	0	y	5	6.121	23.393	.558	1.196	...	H2-1
296	M348	L2x2x3	.714	0	5	.095	0	y	5	21.904	23.393	.558	1.239	...	H2-1
297	M349	L2x2x3	.585	13...	4	.077	13...	y	4	21.904	23.393	.558	1.239	...	H2-1
298	M350	L2x2x3	.233	0	5	.012	0	y	5	6.121	23.393	.558	1.196	...	H2-1
299	M351	L2x2x3	.584	0	4	.077	0	y	4	21.904	23.393	.558	1.239	...	H2-1
300	M352	L2x2x3	.638	13...	5	.075	13...	y	5	21.904	23.393	.558	1.239	...	H2-1
301	M353	L2x2x3	.157	0	5	.008	0	y	5	6.121	23.393	.558	1.196	...	H2-1
302	M354	L2x2x3	.486	0	4	.060	0	y	4	21.904	23.393	.558	1.239	...	H2-1
303	M355	L2x2x3	.739	13...	5	.073	13...	y	5	21.904	23.393	.558	1.239	...	H2-1
304	M356	L2x2x3	.030	0	5	.002	0	y	5	6.121	23.393	.558	1.204	...	H2-1
305	M357	L2x2x3	.494	0	2	.054	0	y	2	21.904	23.393	.558	1.239	...	H2-1
306	M358	L2x2x3	.309	16	4	.056	0	z	4	21.399	23.393	.558	1.239	...	H2-1
307	M359	L2x2x3	.359	16	5	.056	0	y	4	21.399	23.393	.558	1.239	...	H2-1
308	M360	L2x2x3	.213	0	4	.024	24...	z	5	19.138	23.393	.558	1.239	...	H2-1
309	M361	L2x2x3	.256	0	5	.022	0	y	4	19.138	23.393	.558	1.239	...	H2-1
310	M362	L2x2x3	.662	0	5	.030	0	y	5	2.981	23.393	.558	1.072	...	H2-1
311	M363	L2x2x3	.335	0	4	.017	0	z	5	2.981	23.393	.558	.976	...	H2-1
312	M364	L2x2x3	.200	20	4	.027	0	y	4	20.354	23.393	.558	1.239	...	H2-1
313	M365	L2x2x3	.215	0	5	.035	0	z	5	20.354	23.393	.558	1.239	...	H2-1
314	M366	L2x2x3	.246	24	2	.023	24	y	2	19.145	23.393	.558	1.239	...	H2-1
315	M367	L2x2x3	.226	0	5	.024	0	z	4	19.145	23.393	.558	1.239	...	H2-1
316	M368	L2x2x3	.239	24	4	.027	0	y	5	19.145	23.393	.558	1.239	...	H2-1
317	M369	L2x2x3	.260	24	5	.031	0	y	5	19.145	23.393	.558	1.239	...	H2-1
318	M370	L2x2x3	.337	0	5	.031	0	z	5	19.145	23.393	.558	1.239	...	H2-1
319	M371	L2x2x3	.223	0	4	.024	0	y	4	19.145	23.393	.558	1.239	...	H2-1
320	M372	L2x2x3	.264	24	5	.026	0	y	4	19.145	23.393	.558	1.239	...	H2-1
321	M373	L2x2x3	.298	24	5	.021	0	y	5	19.145	23.393	.558	1.239	...	H2-1
322	M374	L2x2x3	.224	0	4	.024	0	z	4	19.138	23.393	.558	1.239	...	H2-1
323	M375	L2x2x3	.228	24...	4	.026	0	y	4	19.138	23.393	.558	1.239	...	H2-1
324	M376	L2x2x3	.350	24...	4	.038	18...	z	4	19.138	23.393	.558	1.239	...	H2-1
325	M377	L2x2x3	.295	0	5	.027	0	y	5	19.138	23.393	.558	1.239	...	H2-1
326	M378	L2x2x3	.260	0	5	.028	15...	y	5	19.138	23.393	.558	1.239	...	H2-1
327	M379	L2x2x3	.414	24...	5	.044	0	y	5	19.138	23.393	.558	1.239	...	H2-1
328	M380	L2x2x3	.522	0	4	.063	0	y	4	21.155	23.393	.558	1.239	...	H2-1
329	M381	L2x2x3	.549	18	4	.064	0	y	4	20.899	23.393	.558	1.239	...	H2-1
330	M382	L2x2x3	.420	19	4	.050	0	y	4	20.632	23.393	.558	1.239	...	H2-1
331	M383	L2x2x3	.420	19	4	.050	0	z	4	20.632	23.393	.558	1.239	...	H2-1
332	M384	L2x2x3	.550	18	4	.064	0	z	4	20.899	23.393	.558	1.239	...	H2-1
333	M385	L2x2x3	.527	17	5	.063	0	z	4	21.155	23.393	.558	1.239	...	H2-1
334	M386	L2x2x3	.688	0	5	.033	0	z	5	2.981	23.393	.558	1.108	...	H2-1
335	M387	L2x2x3	.669	0	5	.033	0	z	5	2.981	23.393	.558	1.097	...	H2-1
336	M388	L2x2x3	.641	0	4	.031	0	z	5	2.981	23.393	.558	1.029	...	H2-1
337	M389	L2x2x3	.578	13...	5	.085	13...	z	5	21.904	23.393	.558	1.239	...	H2-1
338	M390	L2x2x3	.032	0	5	.002	0	z	5	6.121	23.393	.558	1.204	...	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
339	M391	L2x2x3	.653	0	5	.068	0	z	21.904	23.393	.558 1.239 ... H2-1
340	M394	L2x2x3	.524	0	5	.026	60	y	5	6.856	23.393 .558 1.149 ... H2-1
341	M395	L2x2x3	.365	91	5	.018	0	y	5	2.981	23.393 .558 1.125 ... H2-1
342	M396	L2x2x3	.414	0	2	.032	0	y	6	6.856	23.393 .558 1.147 ... H2-1
343	M397	10X15.5X3...	.626	2	5	.152	0	z	5	575.5	.642.6.. 164.327 276.556 ... H1-1b
344	M398	10X15.5X3...	.366	2	5	.123	0	y	2	575.5	.642.6.. 164.327 276.556 ... H1-1b
345	M399	10X15.5X3...	.264	0	5	.118	0	z	5	574.3	.642.6.. 164.327 276.556 ... H1-1b
346	M400	10X15.5X3...	.123	6	5	.119	0	z	5	575.4	.642.6.. 164.327 276.556 ... H1-1b
347	M401	10X15.5X3...	.183	0	5	.074	0	z	4	574.3	.642.6.. 164.327 276.556 ... H1-1b
348	M402	10X15.5X3...	.084	6	2	.074	0	z	4	575.4	.642.6.. 164.327 276.556 ... H1-1b
349	M403	10X15.5X3...	.097	0	5	.022	0	z	5	574.3	.642.6.. 164.327 276.556 ... H1-1b
350	M404	10X15.5X3...	.065	0	2	.019	0	z	2	574.3	.642.6.. 164.327 276.556 ... H1-1b
351	M405	10X15.5X3...	.075	0	5	.024	0	z	5	574.3	.642.6.. 164.327 276.556 ... H1-1b
352	M406	10X15.5X3...	.057	0	5	.026	0	z	5	574.8	.642.6.. 164.327 276.556 ... H1-1b
353	M407	10X15.5X3...	.049	0	2	.020	0	z	2	574.3	.642.6.. 164.327 276.556 ... H1-1b
354	M408	10X15.5X3...	.034	0	2	.022	0	z	2	574.8	.642.6.. 164.327 276.556 ... H1-1b
355	M409	10X15.5X3...	.036	0	5	.030	0	z	5	574.3	.642.6.. 164.327 276.556 ... H1-1b
356	M410	10X15.5X3...	.025	0	2	.027	0	y	5	574.3	.642.6.. 164.327 276.556 ... H1-1b
357	M411	10X15.5X3...	.030	24	5	.032	0	z	5	574.3	.642.6.. 164.327 276.556 ... H1-1b
358	M412	10X15.5X3...	.053	24	5	.033	0	z	5	574.3	.642.6.. 164.327 276.556 ... H1-1b
359	M413	10X15.5X3...	.023	24	2	.028	0	y	2	574.3	.642.6.. 164.327 276.556 ... H1-1b
360	M414	10X15.5X3...	.036	24	2	.029	0	z	2	574.3	.642.6.. 164.327 276.556 ... H1-1b
361	M415	10X15.5X3...	.061	8	5	.030	0	z	5	575.4	.642.6.. 164.327 276.556 ... H1-1b
362	M416	10X15.5X3...	.039	8	2	.031	0	z	6	575.4	.642.6.. 164.327 276.556 ... H1-1b
363	M417	L2x2x3	.374	0	2	.017	0	y	5	21.904	23.393 .558 1.239 ... H2-1
364	M418	L2x2x3	.147	0	5	.008	0	z	5	6.121	23.393 .558 1.197 ... H2-1
365	M419	L2x2x3	.590	0	5	.039	0	z	2	21.904	23.393 .558 1.239 ... H2-1
366	M422	L2x2x3	.490	13...	5	.054	0	z	5	21.904	23.393 .558 1.239 ... H2-1
367	M423	L2x2x3	.199	0	5	.010	0	z	5	6.121	23.393 .558 1.196 ... H2-1
368	M424	L2x2x3	.555	13...	5	.031	0	z	5	21.904	23.393 .558 1.239 ... H2-1
369	M427	L2x2x3	.638	13...	5	.074	0	z	5	21.904	23.393 .558 1.239 ... H2-1
370	M428	L2x2x3	.196	0	2	.010	0	z	5	6.121	23.393 .558 1.195 ... H2-1
371	M429	L2x2x3	.574	13...	5	.045	0	z	5	21.904	23.393 .558 1.239 ... H2-1
372	M432	L2x2x3	.534	13...	5	.063	0	z	5	21.904	23.393 .558 1.239 ... H2-1
373	M433	L2x2x3	.170	0	5	.008	0	z	5	6.121	23.393 .558 1.198 ... H2-1
374	M434	L2x2x3	.568	13...	5	.050	0	z	5	21.904	23.393 .558 1.239 ... H2-1
375	M437	L2x2x3	.502	13...	5	.041	0	z	2	21.904	23.393 .558 1.239 ... H2-1
376	M438	L2x2x3	.114	0	5	.004	0	z	5	6.121	23.393 .558 1.2 ... H2-1
377	M439	L2x2x3	.552	13...	5	.049	0	z	5	21.904	23.393 .558 1.239 ... H2-1
378	M442	L2x2x3	.427	13...	5	.044	13...	z	4	21.904	23.393 .558 1.239 ... H2-1
379	M443	L2x2x3	.069	0	5	.003	0	z	5	6.121	23.393 .558 1.203 ... H2-1
380	M444	L2x2x3	.484	13...	5	.047	0	z	5	21.904	23.393 .558 1.239 ... H2-1
381	M447	L2x2x3	.401	13...	4	.054	13...	z	4	21.904	23.393 .558 1.239 ... H2-1
382	M448	L2x2x3	.055	0	5	.003	0	z	5	6.121	23.393 .558 1.201 ... H2-1
383	M449	L2x2x3	.475	13...	5	.054	0	z	4	21.904	23.393 .558 1.239 ... H2-1
384	M452	L2x2x3	.380	13...	4	.052	13...	z	4	21.904	23.393 .558 1.239 ... H2-1
385	M453	L2x2x3	.063	0	5	.003	0	z	5	6.121	23.393 .558 1.2 ... H2-1
386	M454	L2x2x3	.469	13...	5	.058	0	z	5	21.904	23.393 .558 1.239 ... H2-1
387	M457	L2x2x3	.357	13...	4	.050	13...	z	4	21.904	23.393 .558 1.239 ... H2-1
388	M458	L2x2x3	.063	0	5	.003	0	z	5	6.121	23.393 .558 1.201 ... H2-1
389	M459	L2x2x3	.479	0	5	.062	0	z	5	21.904	23.393 .558 1.239 ... H2-1
390	M462	L2x2x3	.342	13...	4	.048	13...	z	4	21.904	23.393 .558 1.239 ... H2-1
391	M463	L2x2x3	.055	0	5	.003	0	z	5	6.121	23.393 .558 1.203 ... H2-1
392	M464	L2x2x3	.493	0	5	.064	0	z	5	21.904	23.393 .558 1.239 ... H2-1
393	M467	L2x2x3	.342	13...	4	.051	13...	z	4	21.904	23.393 .558 1.239 ... H2-1
394	M468	L2x2x3	.047	0	5	.003	0	z	5	6.121	23.393 .558 1.206 ... H2-1
395	M469	L2x2x3	.522	0	5	.069	0	z	5	21.904	23.393 .558 1.239 ... H2-1
396	M472	L2x2x3	.343	13...	4	.050	13...	z	4	21.904	23.393 .558 1.239 ... H2-1
397	M473	L2x2x3	.041	0	5	.003	0	z	5	6.121	23.393 .558 1.209 ... 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
398	M474	L2x2x3	.532	0	5	.071	0	z	5	21.904	23.393 .558 1.239 ...	H2-1
399	M477	L2x2x3	.350	13...	4	.055	13...	z	4	21.904	23.393 .558 1.239 ...	H2-1
400	M478	L2x2x3	.039	0	5	.003	0	z	5	6.121	23.393 .558 1.213 ...	H2-1
401	M479	L2x2x3	.541	0	5	.076	0	z	5	21.904	23.393 .558 1.239 ...	H2-1
402	M482	L2x2x3	.493	13...	4	.076	0	z	4	21.904	23.393 .558 1.239 ...	H2-1
403	M483	L2x2x3	.205	63.5	4	.019	63.5	y	4	6.121	23.393 .558 1.207 ...	H2-1
404	M484	L2x2x3	.688	0	5	.088	1.1...	z	5	21.904	23.393 .558 1.239 ...	H2-1
405	M487	L2x2x3	.657	0	4	.038	0	z	4	21.904	23.393 .558 1.239 ...	H2-1
406	M488	L2x2x3	.511	30...	4	.032	0	z	4	6.121	23.393 .558 1.032 ...	H2-1
407	M489	L2x2x3	.627	13...	4	.033	13...	z	4	21.904	23.393 .558 1.239 ...	H2-1
408	M490	L2x2x3	.390	0	4	.049	0	z	4	17.459	23.393 .558 1.239 ...	H2-1
409	M491	L2x2x3	.495	0	5	.047	0	y	5	17.459	23.393 .558 1.239 ...	H2-1
410	M492	L2x2x3	.657	0	5	.027	3.0...	z	5	19.112	23.393 .558 1.239 ...	H2-1
411	M493	L2x2x3	.577	24...	4	.026	0	y	4	19.112	23.393 .558 1.239 ...	H2-1
412	M494	L2x2x3	.532	0	5	.037	0	y	5	19.145	23.393 .558 1.239 ...	H2-1
413	M495	L2x2x3	.315	0	2	.014	0	z	2	19.145	23.393 .558 1.239 ...	H2-1
414	M496	L2x2x3	.252	0	2	.017	0	z	2	19.145	23.393 .558 1.239 ...	H2-1
415	M497	L2x2x3	.222	24	2	.016	0	z	2	19.145	23.393 .558 1.239 ...	H2-1
416	M498	L2x2x3	.200	24	2	.014	0	z	2	19.145	23.393 .558 1.239 ...	H2-1
417	M499	L2x2x3	.224	0	4	.020	0	z	4	19.145	23.393 .558 1.239 ...	H2-1
418	M500	L2x2x3	.198	0	4	.021	0	z	4	19.145	23.393 .558 1.239 ...	H2-1
419	M501	L2x2x3	.191	24	4	.019	0	z	4	19.145	23.393 .558 1.239 ...	H2-1
420	M502	L2x2x3	.200	24	4	.018	0	z	4	19.145	23.393 .558 1.239 ...	H2-1
421	M503	L2x2x3	.199	24	4	.018	0	z	4	19.145	23.393 .558 1.239 ...	H2-1
422	M504	L2x2x3	.236	24	4	.020	0	z	4	19.145	23.393 .558 1.239 ...	H2-1
423	M505	L2x2x3	.258	24	4	.023	0	z	4	19.145	23.393 .558 1.239 ...	H2-1
424	M506	L2x2x3	.293	24	4	.025	0	z	4	19.145	23.393 .558 1.239 ...	H2-1
425	M507	L2x2x3	.387	24	4	.028	0	z	4	19.145	23.393 .558 1.239 ...	H2-1
426	M510	L2x2x3	.508	0	2	.035	0	z	2	19.145	23.393 .558 1.239 ...	H2-1
427	M511	L2x2x3	.302	0	5	.023	0	y	5	19.145	23.393 .558 1.239 ...	H2-1
428	M512	L2x2x3	.257	0	5	.021	0	y	5	19.145	23.393 .558 1.239 ...	H2-1
429	M513	L2x2x3	.248	0	5	.021	0	y	5	19.145	23.393 .558 1.239 ...	H2-1
430	M514	L2x2x3	.259	0	5	.022	0	y	5	19.145	23.393 .558 1.239 ...	H2-1
431	M515	L2x2x3	.282	0	5	.023	0	y	5	19.145	23.393 .558 1.239 ...	H2-1
432	M516	L2x2x3	.276	24	5	.022	0	y	5	19.145	23.393 .558 1.239 ...	H2-1
433	M517	L2x2x3	.283	24	5	.024	0	y	5	19.145	23.393 .558 1.239 ...	H2-1
434	M518	L2x2x3	.287	24	5	.025	.5	y	5	19.145	23.393 .558 1.239 ...	H2-1
435	M519	L2x2x3	.282	24	5	.026	.5	y	5	19.145	23.393 .558 1.239 ...	H2-1
436	M520	L2x2x3	.291	24	5	.025	.8	y	5	19.145	23.393 .558 1.239 ...	H2-1
437	M521	L2x2x3	.312	24	5	.030	0	y	5	19.145	23.393 .558 1.239 ...	H2-1
438	M522	L2x2x3	.348	24	5	.031	0	y	5	19.145	23.393 .558 1.239 ...	H2-1
439	M523	L2x2x3	.448	24	5	.037	0	y	5	19.145	23.393 .558 1.239 ...	H2-1
440	M524	L2x2x3	.669	0	5	.024	4.5...	z	5	19.112	23.393 .558 1.239 ...	H2-1
441	M525	L2x2x3	.632	0	5	.027	3.0...	z	5	19.112	23.393 .558 1.239 ...	H2-1
442	M526	L2x2x3	.612	0	5	.030	5.7...	z	5	19.112	23.393 .558 1.239 ...	H2-1
443	M527	L2x2x3	.562	0	5	.030	0	z	5	19.112	23.393 .558 1.239 ...	H2-1
444	M528	L2x2x3	.480	0	5	.028	.753	z	5	19.112	23.393 .558 1.239 ...	H2-1
445	M529	L2x2x3	.415	0	5	.025	7.5...	z	5	19.112	23.393 .558 1.239 ...	H2-1
446	M530	L2x2x3	.378	0	5	.023	2.0...	z	5	19.112	23.393 .558 1.239 ...	H2-1
447	M531	L2x2x3	.356	0	5	.023	1.2...	z	5	19.112	23.393 .558 1.239 ...	H2-1
448	M532	L2x2x3	.336	0	5	.023	0	z	5	19.112	23.393 .558 1.239 ...	H2-1
449	M533	L2x2x3	.325	0	5	.023	0	z	5	19.112	23.393 .558 1.239 ...	H2-1
450	M534	L2x2x3	.301	0	5	.023	0	z	5	19.112	23.393 .558 1.239 ...	H2-1
451	M535	L2x2x3	.278	0	5	.022	1.2...	z	5	19.112	23.393 .558 1.239 ...	H2-1
452	M536	L2x2x3	.471	24...	4	.051	8.0...	z	4	19.112	23.393 .558 1.239 ...	H2-1
453	M537	L2x2x3	.562	24...	4	.021	0	y	4	19.112	23.393 .558 1.239 ...	H2-1
454	M538	L2x2x3	.527	0	4	.020	1.0...	y	4	19.112	23.393 .558 1.239 ...	H2-1
455	M539	L2x2x3	.506	0	4	.022	.251	y	4	19.112	23.393 .558 1.239 ...	H2-1
456	M540	L2x2x3	.468	0	4	.024	4.77	y	4	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
457	M541	L2x2x3	.417	0	4	.024	24...	y 5	19.112	23.393	.558 1.239 ... H2-1
458	M542	L2x2x3	.361	0	4	.023	24...	y 5	19.112	23.393	.558 1.239 ... H2-1
459	M543	L2x2x3	.325	0	4	.023	24...	y 5	19.112	23.393	.558 1.239 ... H2-1
460	M544	L2x2x3	.302	0	4	.023	24...	y 5	19.112	23.393	.558 1.239 ... H2-1
461	M545	L2x2x3	.280	0	4	.023	24...	y 5	19.112	23.393	.558 1.239 ... H2-1
462	M546	L2x2x3	.260	0	4	.023	0 z	5	19.112	23.393	.558 1.239 ... H2-1
463	M547	L2x2x3	.245	0	4	.023	0 z	5	19.112	23.393	.558 1.239 ... H2-1
464	M548	L2x2x3	.294	24...	5	.029	0 z	5	19.112	23.393	.558 1.239 ... H2-1
465	M549	L2x2x3	.447	24...	4	.052	6.0...	y 4	19.112	23.393	.558 1.239 ... H2-1
466	M550	L2x2x3	.635	0	4	.031	0 y	4	2.981	23.393	.558 1.011 ... H2-1
467	M551	L2x2x3	.626	0	4	.031	0 y	4	2.981	23.393	.558 1.021 ... H2-1
468	M552	L2x2x3	.626	0	4	.031	0 y	4	2.981	23.393	.558 1.019 ... H2-1
469	M553	L2x2x3	.627	0	4	.031	0 y	4	2.981	23.393	.558 1.005 ... H2-1
470	M554	L2x2x3	.630	91	4	.031	91 y	4	2.981	23.393	.558 .978 ... H2-1
471	M555	L2x2x3	.634	91	4	.031	91 y	4	2.981	23.393	.558 .976 ... H2-1
472	M556	L2x2x3	.634	91	4	.031	91 y	4	2.981	23.393	.558 .975 ... H2-1
473	M557	L2x2x3	.635	91	4	.031	91 y	4	2.981	23.393	.558 .975 ... H2-1
474	M558	L2x2x3	.636	91	4	.031	91 y	4	2.981	23.393	.558 .975 ... H2-1
475	M559	L2x2x3	.638	91	4	.031	91 y	4	2.981	23.393	.558 .976 ... H2-1
476	M560	L2x2x3	.636	91	4	.031	0 y	4	2.981	23.393	.558 .975 ... H2-1
477	M561	L2x2x3	.637	91	4	.031	91 y	4	2.981	23.393	.558 .974 ... H2-1
478	M562	L2x2x3	.674	91	4	.034	91 y	4	2.981	23.393	.558 1.001 ... H2-1
479	M563	L2x2x3	.569	0	4	.046	0 y	4	16.667	23.393	.558 1.239 ... H2-1
480	M564	L2x2x3	.576	0	4	.046	0 y	4	15.858	23.393	.558 1.239 ... H2-1
481	M565	L2x2x3	.546	0	4	.044	0 y	4	15.036	23.393	.558 1.239 ... H2-1
482	M566	L2x2x3	.468	0	4	.031	0 y	4	14.208	23.393	.558 1.239 ... H2-1
483	M567	L2x2x3	.462	0	4	.031	0 y	4	13.381	23.393	.558 1.239 ... H2-1
484	M568	L2x2x3	.455	0	4	.030	0 y	4	12.558	23.393	.558 1.239 ... H2-1
485	M569	L2x2x3	.445	0	4	.029	0 y	4	11.746	23.393	.558 1.239 ... H2-1
486	M570	L2x2x3	.400	0	4	.026	0 y	4	10.949	23.393	.558 1.239 ... H2-1
487	M571	L2x2x3	.351	0	4	.032	0 y	4	10.171	23.393	.558 1.239 ... H2-1
488	M572	L2x2x3	.312	0	5	.037	51...	y 5	9.417	23.393	.558 1.228 ... H2-1
489	M573	L2x2x3	.365	53...	5	.042	53...	y 5	8.669	23.393	.558 1.213 ... H2-1
490	M574	L2x2x3	.391	0	5	.041	55...	y 5	7.992	23.393	.558 1.202 ... H2-1
491	M575	L2x2x3	.465	0	5	.038	57...	y 5	7.392	23.393	.558 1.183 ... H2-1
492	M576	L2x2x3	.625	0	5	.053	0 z	5	16.667	23.393	.558 1.239 ... H2-1
493	M577	L2x2x3	.623	0	5	.052	0 z	5	15.858	23.393	.558 1.239 ... H2-1
494	M578	L2x2x3	.570	0	5	.049	0 z	5	15.036	23.393	.558 1.239 ... H2-1
495	M579	L2x2x3	.509	0	5	.036	0 z	5	14.208	23.393	.558 1.239 ... H2-1
496	M580	L2x2x3	.476	0	5	.036	0 z	5	13.381	23.393	.558 1.239 ... H2-1
497	M581	L2x2x3	.454	0	4	.034	0 z	5	12.558	23.393	.558 1.239 ... H2-1
498	M582	L2x2x3	.444	0	4	.032	0 z	5	11.746	23.393	.558 1.239 ... H2-1
499	M583	L2x2x3	.398	0	4	.030	0 z	5	10.949	23.393	.558 1.239 ... H2-1
500	M584	L2x2x3	.430	0	2	.041	0 y	6	10.171	23.393	.558 1.192 ... H2-1
501	M585	L2x2x3	.468	0	2	.044	0 y	2	9.417	23.393	.558 1.196 ... H2-1
502	M586	L2x2x3	.509	0	2	.046	0 y	2	8.669	23.393	.558 1.195 ... H2-1
503	M587	L2x2x3	.546	0	2	.047	0 y	2	7.992	23.393	.558 1.188 ... H2-1
504	M588	L2x2x3	.591	0	2	.046	0 y	2	7.392	23.393	.558 1.179 ... H2-1
505	M589	HSS8x8x4	.171	0	5	.016	0 y	5	286.5...	293.94	66.288 66.288 ... H1-1b
506	M590	HSS8x8x4	.119	0	2	.020	0 z	5	286.5...	293.94	66.288 66.288 ... H1-1b
507	M591	HSS6x6x4	.090	0	5	.021	66.3 z	2	205.4...	216.9...	38.64 38.64 ... H1-...
508	M592	HSS6x6x4	.039	0	4	.019	65...	z	205.8...	216.9...	38.64 38.64 ... H1-1b
509	M593	HSS6x6x4	.027	0	2	.012	64...	z	206.1...	216.9...	38.64 38.64 ... H1-1b
510	M594	HSS6x6x4	.041	19...	5	.012	0 y	2	206.4...	216.9...	38.64 38.64 ... H1-1b
511	M595	HSS6x6x4	.056	0	5	.015	62...	y 5	206.6...	216.9...	38.64 38.64 ... H1-1b
512	M596	HSS6x6x4	.068	9.7...	5	.013	62...	y 5	206.8...	216.9...	38.64 38.64 ... H1-1b
513	M597	HSS6x6x4	.089	0	5	.015	61...	y 5	207.0...	216.9...	38.64 38.64 ... H1-1b
514	M598	HSS6x6x4	.094	19...	5	.008	61...	y 5	207.0...	216.9...	38.64 38.64 ... H1-1b
515	M599	HSS6x6x4	.116	0	5	.008	61...	y 5	207.1...	216.9...	38.64 38.64 ... 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...	Ean
516	M601	HSS6x6x4	.090	0	5	.021	66.3 z	2	205.4...	216.9...	38.64 38.64	... H1-...
517	M602	HSS6x6x4	.039	0	4	.019	65... z	5	205.8...	216.9...	38.64 38.64	... H1-1b
518	M603	HSS6x6x4	.027	0	2	.012	64... z	2	206.1...	216.9...	38.64 38.64	... H1-1b
519	M604	HSS6x6x4	.041	19...	5	.012	0 y	2	206.4...	216.9...	38.64 38.64	... H1-1b
520	M605	HSS6x6x4	.056	0	5	.015	62... y	5	206.6...	216.9...	38.64 38.64	... H1-1b
521	M606	HSS6x6x4	.068	9.7...	5	.013	62... y	5	206.8...	216.9...	38.64 38.64	... H1-1b
522	M607	HSS6x6x4	.089	0	5	.015	61... y	5	207.0...	216.9...	38.64 38.64	... H1-1b
523	M608	HSS6x6x4	.094	19...	5	.008	61... y	5	207.0...	216.9...	38.64 38.64	... H1-1b
524	M608A	HSS6x6x4	.116	0	5	.008	61... y	5	207.1...	216.9...	38.64 38.64	... H1-1b
525	M609	HSS6x6x4	.238	0	5	.026	0 y	5	205.0...	216.9...	38.64 38.64	... H1-1b
526	M610	HSS6x6x4	.238	0	5	.026	0 y	5	205.0...	216.9...	38.64 38.64	... H1-1b
527	M611	HSS6x6x4	.074	0	4	.023	66.3 z	2	205.4...	216.9...	38.64 38.64	... H1-...
528	M612	HSS6x6x4	.046	0	5	.018	65... z	5	205.8...	216.9...	38.64 38.64	... H1-1b
529	M613	HSS6x6x4	.059	0	5	.012	0 y	5	206.1...	216.9...	38.64 38.64	... H1-...
530	M614	HSS6x6x4	.046	0	2	.015	0 y	5	206.4...	216.9...	38.64 38.64	... H1-...
531	M615	HSS6x6x4	.067	0	2	.014	0 y	5	206.6...	216.9...	38.64 38.64	... H1-...
532	M616	HSS6x6x4	.070	0	2	.016	0 y	5	206.8...	216.9...	38.64 38.64	... H1-...
533	M617	HSS6x6x4	.091	0	2	.013	0 y	5	207.0...	216.9...	38.64 38.64	... H1-...
534	M618	HSS6x6x4	.097	0	2	.010	0 y	5	207.0...	216.9...	38.64 38.64	... H1-...
535	M619	HSS6x6x4	.113	0	2	.006	0 y	5	207.1...	216.9...	38.64 38.64	... H1-...
536	M620	HSS6x6x4	.074	0	4	.023	66.3 z	2	205.4...	216.9...	38.64 38.64	... H1-...
537	M621	HSS6x6x4	.046	0	5	.018	65... z	5	205.8...	216.9...	38.64 38.64	... H1-1b
538	M622	HSS6x6x4	.059	0	5	.012	0 y	5	206.1...	216.9...	38.64 38.64	... H1-...
539	M623	HSS6x6x4	.046	0	2	.015	0 y	5	206.4...	216.9...	38.64 38.64	... H1-...
540	M624	HSS6x6x4	.067	0	2	.014	0 y	5	206.6...	216.9...	38.64 38.64	... H1-...
541	M625	HSS6x6x4	.070	0	2	.016	0 y	5	206.8...	216.9...	38.64 38.64	... H1-...
542	M626	HSS6x6x4	.091	0	2	.013	0 y	5	207.0...	216.9...	38.64 38.64	... H1-...
543	M627	HSS6x6x4	.097	0	2	.010	0 y	5	207.0...	216.9...	38.64 38.64	... H1-...
544	M628	HSS6x6x4	.113	0	2	.006	0 y	5	207.1...	216.9...	38.64 38.64	... H1-...
545	M629	HSS6x6x4	.200	0	4	.021	0 y	4	205.0...	216.9...	38.64 38.64	... H1-1b
546	M630	HSS6x6x4	.200	0	4	.021	0 y	4	205.0...	216.9...	38.64 38.64	... H1-1b
547	M631	HSS4x4x3	.075	0	5	.024	0 y	5	95.429	106.8...	12.662 12.662	... H1-1b
548	M632	HSS4x4x3	.067	0	5	.023	0 y	5	95.429	106.8...	12.662 12.662	... H1-1b
549	M633	HSS4x4x3	.040	0	2	.019	0 y	5	95.429	106.8...	12.662 12.662	... H1-1b
550	M634	HSS4x4x3	.029	63.5	5	.016	0 z	5	95.429	106.8...	12.662 12.662	... H1-1b
551	M635	HSS4x4x3	.048	0	2	.018	63.5 y	5	95.429	106.8...	12.662 12.662	... H1-1b
552	M636	HSS4x4x3	.064	63.5	5	.019	63.5 y	5	95.429	106.8...	12.662 12.662	... H1-1b
553	M637	HSS4x4x3	.062	63.5	5	.017	63.5 y	5	95.429	106.8...	12.662 12.662	... H1-1b
554	M638	HSS4x4x3	.056	63.5	5	.013	63.5 y	5	95.429	106.8...	12.662 12.662	... H1-1b
555	M639	HSS4x4x3	.036	63.5	5	.008	63.5 y	5	95.429	106.8...	12.662 12.662	... H1-1b
556	M640	HSS4x4x3	.013	63.5	5	.002	63.5 y	5	95.429	106.8...	12.662 12.662	... H1-1b
557	M641	HSS4x4x3	.036	63.5	5	.008	63.5 y	5	95.429	106.8...	12.662 12.662	... H1-1b
558	M642	HSS4x4x3	.056	63.5	5	.013	63.5 y	5	95.429	106.8...	12.662 12.662	... H1-1b
559	M643	HSS4x4x3	.062	63.5	5	.017	63.5 y	5	95.429	106.8...	12.662 12.662	... H1-1b
560	M644	HSS4x4x3	.064	63.5	5	.019	63.5 y	5	95.429	106.8...	12.662 12.662	... H1-1b
561	M645	HSS4x4x3	.048	0	2	.018	63.5 y	5	95.429	106.8...	12.662 12.662	... H1-1b
562	M646	HSS4x4x3	.029	63.5	5	.016	0 z	5	95.429	106.8...	12.662 12.662	... H1-1b
563	M647	HSS4x4x3	.040	0	2	.019	0 y	5	95.429	106.8...	12.662 12.662	... H1-1b
564	M648	HSS4x4x3	.067	0	5	.023	0 y	5	95.429	106.8...	12.662 12.662	... H1-1b
565	M649	HSS4x4x3	.075	0	5	.024	0 y	5	95.429	106.8...	12.662 12.662	... H1-1b
566	M650	HSS8x8x4	.075	61.2	2	.016	0 y	2	286.5...	293.94	66.288 66.288	... H1-1b
567	M651	HSS8x8x4	.087	61.2	2	.028	0 y	2	286.5...	293.94	66.288 66.288	... H1-1b
568	M652	HSS8x8x4	.124	0	5	.029	0 y	2	286.5...	293.94	66.288 66.288	... H1-...
569	M653	HSS8x8x4	.147	0	5	.032	0 y	2	286.5...	293.94	66.288 66.288	... H1-...
570	M654	HSS8x8x4	.187	0	5	.028	0 y	2	286.5...	293.94	66.288 66.288	... H1-...
571	M655	HSS8x8x4	.187	0	5	.028	0 y	2	286.5...	293.94	66.288 66.288	... H1-...
572	M656	HSS8x8x4	.240	61.2	5	.019	0 y	2	286.5...	293.94	66.288 66.288	... H1-1a
573	M657	HSS8x8x4	.236	7.65	5	.013	0 y	2	286.5...	293.94	66.288 66.288	... H1-1a
574	M658	HSS8x8x4	.261	61.2	5	.006	0 y	5	286.5...	293.94	66.288 66.288	... H1-1a

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
575	M659	HSS8x8x4	.261	0	5	.006	61.2	y	5	286.5...	H1-1a
576	M660	HSS8x8x4	.236	53...	5	.013	0	y	2	286.5...	H1-1a
577	M661	HSS8x8x4	.240	0	5	.019	0	y	2	286.5...	H1-1a
578	M662	HSS8x8x4	.187	0	5	.028	0	y	2	286.5...	H1-...
579	M663	HSS8x8x4	.187	0	5	.028	0	y	2	286.5...	H1-...
580	M664	HSS8x8x4	.147	0	5	.032	0	y	2	286.5...	H1-...
581	M665	HSS8x8x4	.124	0	5	.029	0	y	2	286.5...	H1-...
582	M666	HSS8x8x4	.087	0	2	.028	0	y	2	286.5...	H1-1b
583	M667	HSS8x8x4	.075	0	2	.016	0	y	2	286.5...	H1-1b
584	M668	HSS8x8x4	.119	61.2	2	.020	61.2	z	5	286.5...	H1-1b
585	M669	HSS8x8x4	.081	61.2	5	.024	0	y	5	286.5...	H1-1b
586	M670	HSS8x8x4	.119	61.2	5	.031	0	y	5	286.5...	H1-1b
587	M671	HSS8x8x4	.108	61.2	5	.042	0	y	5	286.5...	H1-1b
588	M672	HSS8x8x4	.162	61.2	5	.039	0	y	5	286.5...	H1-1b
589	M673	HSS8x8x4	.171	61.2	5	.042	0	y	5	286.5...	H1-1b
590	M674	HSS8x8x4	.176	61.2	5	.035	0	y	5	286.5...	H1-1b
591	M675	HSS8x8x4	.168	61.2	5	.032	0	y	5	286.5...	H1-1b
592	M676	HSS8x8x4	.142	61.2	5	.017	0	y	5	286.5...	H1-1b
593	M677	HSS8x8x4	.117	61.2	2	.006	0	z	5	286.5...	H1-1b
594	M678	HSS8x8x4	.117	0	2	.006	61.2	z	5	286.5...	H1-1b
595	M679	HSS8x8x4	.142	0	5	.017	61.2	y	5	286.5...	H1-1b
596	M680	HSS8x8x4	.168	0	5	.032	61.2	y	5	286.5...	H1-1b
597	M681	HSS8x8x4	.176	0	5	.035	61.2	y	5	286.5...	H1-1b
598	M682	HSS8x8x4	.171	0	5	.042	61.2	y	5	286.5...	H1-1b
599	M683	HSS8x8x4	.162	0	5	.039	61.2	y	5	286.5...	H1-1b
600	M684	HSS8x8x4	.108	0	5	.042	61.2	y	5	286.5...	H1-1b
601	M685	HSS8x8x4	.119	0	5	.031	61.2	y	5	286.5...	H1-1b
602	M686	HSS8x8x4	.081	0	5	.024	61.2	y	5	286.5...	H1-1b
603	M687	HSS8x8x4	.171	61.2	5	.016	61.2	y	5	286.5...	H1-1b
604	M688	HSS6x6x4	.093	64...	5	.030	0	y	5	205.9...	H1-1b
605	M689	HSS6x6x4	.069	64...	5	.023	0	y	5	206.2...	H1-1b
606	M690	HSS6x6x4	.072	63...	5	.022	0	y	5	206.4...	H1-1b
607	M691	HSS6x6x4	.082	62...	5	.028	0	y	5	206.6...	H1-1b
608	M692	HSS6x6x4	.090	62...	5	.030	0	y	5	206.8...	H1-1b
609	M693	HSS6x6x4	.093	61...	5	.029	0	y	5	206.9...	H1-1b
610	M694	HSS6x6x4	.082	61...	5	.025	0	y	5	207.0...	H1-1b
611	M695	HSS6x6x4	.063	61...	5	.014	0	y	5	207.1...	H1-1b
612	M696	HSS6x6x4	.049	61...	2	.005	61...	z	5	207.1...	H1-1b
613	M697	HSS6x6x4	.093	64...	5	.030	0	y	5	205.9...	H1-1b
614	M698	HSS6x6x4	.069	64...	5	.023	0	y	5	206.2...	H1-1b
615	M699	HSS6x6x4	.072	63...	5	.022	0	y	5	206.4...	H1-1b
616	M700	HSS6x6x4	.082	62...	5	.028	0	y	5	206.6...	H1-1b
617	M701	HSS6x6x4	.090	62...	5	.030	0	y	5	206.8...	H1-1b
618	M702	HSS6x6x4	.093	61...	5	.029	0	y	5	206.9...	H1-1b
619	M703	HSS6x6x4	.082	61...	5	.025	0	y	5	207.0...	H1-1b
620	M704	HSS6x6x4	.063	61...	5	.014	0	y	5	207.1...	H1-1b
621	M705	HSS6x6x4	.049	61...	2	.005	61...	z	5	207.1...	H1-1b
622	M706	HSS6x6x4	.137	0	5	.030	0	z	5	205.6...	H1-1b
623	M707	HSS6x6x4	.137	0	5	.030	0	z	5	205.6...	H1-1b
624	M708	HSS6x6x4	.070	64...	5	.026	0	z	5	205.9...	H1-1b
625	M709	HSS6x6x4	.059	64...	5	.016	0	y	2	206.2...	H1-1b
626	M710	HSS6x6x4	.065	63...	4	.012	0	y	2	206.4...	H1-1b
627	M711	HSS6x6x4	.092	0	5	.018	0	y	2	206.6...	H1-...
628	M712	HSS6x6x4	.100	0	5	.020	0	y	2	206.8...	H1-...
629	M713	HSS6x6x4	.106	0	5	.019	0	y	2	206.9...	H1-...
630	M714	HSS6x6x4	.108	0	5	.016	0	y	2	207.0...	H1-...
631	M715	HSS6x6x4	.109	0	5	.009	0	y	4	207.1...	H1-...
632	M716	HSS6x6x4	.103	0	5	.008	0	y	5	207.1...	H1-...
633	M717	HSS6x6x4	.070	64...	5	.026	0	z	5	205.9...	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
634	M718	HSS6x6x4	.059	64...	5	.016	0	y	2	206.2...	H1-1b
635	M719	HSS6x6x4	.065	63...	4	.012	0	y	2	206.4...	H1-1b
636	M720	HSS6x6x4	.092	0	5	.018	0	y	2	206.6...	H1-...
637	M721	HSS6x6x4	.100	0	5	.020	0	y	2	206.8...	H1-...
638	M722	HSS6x6x4	.106	0	5	.019	0	y	2	206.9...	H1-...
639	M723	HSS6x6x4	.108	0	5	.016	0	y	2	207.0...	H1-...
640	M724	HSS6x6x4	.109	0	5	.009	0	y	4	207.1...	H1-...
641	M725	HSS6x6x4	.103	0	5	.008	0	y	5	207.1...	H1-...
642	M726	HSS6x6x4	.124	0	2	.029	0	z	2	205.6...	H1-1b
643	M727	HSS6x6x4	.124	0	2	.029	0	z	2	205.6...	H1-1b
644	M728	HSS4x4x3	.069	63.5	5	.018	0	z	5	95.429	H1-1b
645	M729	HSS4x4x3	.114	63.5	5	.021	63.5	y	5	95.429	H1-1b
646	M730	HSS4x4x3	.115	0	2	.022	63.5	y	5	95.429	H1-1b
647	M731	HSS4x4x3	.126	63.5	5	.020	63.5	y	5	95.429	H1-1b
648	M732	HSS4x4x3	.095	0	5	.017	63.5	y	5	95.429	H1-1b
649	M733	HSS4x4x3	.090	63.5	5	.015	63.5	y	5	95.429	H1-1b
650	M734	HSS4x4x3	.083	63.5	5	.013	63.5	y	5	95.429	H1-1b
651	M735	HSS4x4x3	.074	63.5	2	.011	63.5	y	5	95.429	H1-1b
652	M736	HSS4x4x3	.061	63.5	5	.012	63.5	y	5	95.429	H1-1b
653	M737	HSS4x4x3	.035	63.5	2	.006	63.5	y	5	95.429	H1-1b
654	M738	HSS4x4x3	.061	63.5	5	.012	63.5	y	5	95.429	H1-1b
655	M739	HSS4x4x3	.074	63.5	2	.011	63.5	y	5	95.429	H1-1b
656	M740	HSS4x4x3	.083	63.5	5	.013	63.5	y	5	95.429	H1-1b
657	M741	HSS4x4x3	.090	63.5	5	.015	63.5	y	5	95.429	H1-1b
658	M742	HSS4x4x3	.095	0	5	.017	63.5	y	5	95.429	H1-1b
659	M743	HSS4x4x3	.126	63.5	5	.020	63.5	y	5	95.429	H1-1b
660	M744	HSS4x4x3	.115	0	2	.022	63.5	y	5	95.429	H1-1b
661	M745	HSS4x4x3	.114	63.5	5	.021	63.5	y	5	95.429	H1-1b
662	M746	HSS4x4x3	.069	63.5	5	.018	0	z	5	95.429	H1-1b
663	M747	HSS4x4x3	.198	0	5	.007	0	y	4	85.945	H1-...
664	M748	HSS4x4x3	.133	0	5	.006	0	y	5	85.945	H1-1b
665	M749	HSS4x4x3	.163	0	5	.006	88...	y	5	85.945	H1-...
666	M750	HSS4x4x3	.126	0	5	.010	0	y	5	85.945	H1-1b
667	M751	HSS4x4x3	.119	0	2	.007	0	y	2	85.945	H1-1b
668	M752	HSS4x4x3	.094	0	5	.011	0	y	5	85.945	H1-1b
669	M753	HSS4x4x3	.083	0	2	.007	0	y	2	85.945	H1-1b
670	M754	HSS4x4x3	.069	0	5	.010	0	y	5	85.945	H1-1b
671	M755	HSS4x4x3	.053	0	2	.006	0	y	2	85.945	H1-1b
672	M756	HSS4x4x3	.029	0	2	.007	0	y	5	85.945	H1-1b
673	M757	HSS4x4x3	.029	88...	2	.007	88...	y	5	85.945	H1-1b
674	M758	HSS4x4x3	.053	88...	2	.006	0	y	2	85.945	H1-1b
675	M759	HSS4x4x3	.069	88...	5	.010	88...	y	5	85.945	H1-1b
676	M760	HSS4x4x3	.083	88...	2	.007	0	y	2	85.945	H1-1b
677	M761	HSS4x4x3	.094	88...	5	.011	88...	y	5	85.945	H1-1b
678	M762	HSS4x4x3	.119	88...	2	.007	0	y	2	85.945	H1-1b
679	M763	HSS4x4x3	.126	88...	5	.010	88...	y	5	85.945	H1-1b
680	M764	HSS4x4x3	.163	0	5	.006	0	y	5	85.945	H1-...
681	M765	HSS4x4x3	.133	88...	5	.006	88...	y	5	85.945	H1-1b
682	M766	HSS4x4x3	.198	0	5	.007	88...	y	4	85.945	H1-...
683	M767	HSS4x4x3	.185	0	5	.019	0	y	4	84.016	H1-1b
684	M768	HSS4x4x3	.082	91...	5	.003	91...	y	5	84.397	H1-1b
685	M769	HSS4x4x3	.085	0	5	.004	0	y	5	84.738	H1-...
686	M770	HSS4x4x3	.038	0	5	.004	90...	y	5	85.036	H1-1b
687	M771	HSS4x4x3	.048	89...	2	.006	89...	y	5	85.293	H1-1b
688	M772	HSS4x4x3	.056	0	5	.004	0	y	2	85.508	H1-1b
689	M773	HSS4x4x3	.058	0	2	.007	88...	y	5	85.681	H1-1b
690	M774	HSS4x4x3	.059	0	5	.005	0	y	5	85.81	H1-1b
691	M775	HSS4x4x3	.045	0	2	.007	88...	y	5	85.896	H1-1b
692	M776	HSS4x4x3	.028	0	5	.005	0	y	5	85.94	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
693	M777	HSS4x4x3	.028	88...	5	.005	88...	y 5	85.94	106.8...	12.662	12.662 ... H1-1b
694	M778	HSS4x4x3	.045	88...	2	.007	0	y 5	85.896	106.8...	12.662	12.662 ... H1-1b
695	M779	HSS4x4x3	.059	88...	5	.005	88...	y 5	85.81	106.8...	12.662	12.662 ... H1-1b
696	M780	HSS4x4x3	.058	88...	2	.007	0	y 5	85.681	106.8...	12.662	12.662 ... H1-1b
697	M781	HSS4x4x3	.056	89...	5	.004	0	y 2	85.508	106.8...	12.662	12.662 ... H1-1b
698	M782	HSS4x4x3	.048	89...	2	.006	0	y 5	85.293	106.8...	12.662	12.662 ... H1-1b
699	M783	HSS4x4x3	.038	90...	5	.004	0	y 5	85.036	106.8...	12.662	12.662 ... H1-1b
700	M784	HSS4x4x3	.085	91...	5	.004	91...	y 5	84.738	106.8...	12.662	12.662 ... H1-1b
701	M785	HSS4x4x3	.082	0	5	.003	0	y 5	84.397	106.8...	12.662	12.662 ... H1-1b
702	M786	HSS4x4x3	.185	92...	5	.019	92...	y 4	84.016	106.8...	12.662	12.662 ... H1-1b
703	M787	HSS4x4x3	.181	0	5	.027	0	z 2	95.429	106.8...	12.662	12.662 ... H1-1b
704	M788	HSS4x4x3	.152	0	5	.025	0	z 5	95.429	106.8...	12.662	12.662 ... H1-1b
705	M789	HSS4x4x3	.093	0	5	.021	0	z 5	95.429	106.8...	12.662	12.662 ... H1-1b
706	M790	HSS4x4x3	.128	63.5	5	.020	0	z 5	95.429	106.8...	12.662	12.662 ... H1-1b
707	M791	HSS4x4x3	.137	63.5	5	.017	0	z 2	95.429	106.8...	12.662	12.662 ... H1-1b
708	M792	HSS4x4x3	.140	63.5	5	.015	0	z 5	95.429	106.8...	12.662	12.662 ... H1-1b
709	M793	HSS4x4x3	.131	63.5	5	.012	63.5	y 5	95.429	106.8...	12.662	12.662 ... H1-1b
710	M794	HSS4x4x3	.107	0	2	.010	63.5	y 5	95.429	106.8...	12.662	12.662 ... H1-1b
711	M795	HSS4x4x3	.075	63.5	5	.010	63.5	y 5	95.429	106.8...	12.662	12.662 ... H1-1b
712	M796	HSS4x4x3	.025	0	2	.004	63.5	y 5	95.429	106.8...	12.662	12.662 ... H1-1b
713	M797	HSS4x4x3	.075	63.5	5	.010	63.5	y 5	95.429	106.8...	12.662	12.662 ... H1-1b
714	M798	HSS4x4x3	.107	0	2	.010	63.5	y 5	95.429	106.8...	12.662	12.662 ... H1-1b
715	M799	HSS4x4x3	.131	63.5	5	.012	63.5	y 5	95.429	106.8...	12.662	12.662 ... H1-1b
716	M800	HSS4x4x3	.140	63.5	5	.015	0	z 5	95.429	106.8...	12.662	12.662 ... H1-1b
717	M801	HSS4x4x3	.137	63.5	5	.017	0	z 2	95.429	106.8...	12.662	12.662 ... H1-1b
718	M802	HSS4x4x3	.128	63.5	5	.020	0	z 5	95.429	106.8...	12.662	12.662 ... H1-1b
719	M803	HSS4x4x3	.093	0	5	.021	0	z 5	95.429	106.8...	12.662	12.662 ... H1-1b
720	M804	HSS4x4x3	.152	0	5	.025	0	z 5	95.429	106.8...	12.662	12.662 ... H1-1b
721	M805	HSS4x4x3	.181	0	5	.027	0	z 2	95.429	106.8...	12.662	12.662 ... H1-1b
722	M806	HSS6x6x4	.068	0	5	.020	0	y 5	210.9...	216.9...	38.64	38.64 ... H1-1b
723	M807	HSS6x6x4	.061	0	2	.012	0	y 2	167.0...	216.9...	38.64	38.64 ... H1-1b
724	M808	HSS6x6x4	.069	0	5	.020	0	y 5	210.9...	216.9...	38.64	38.64 ... H1-1b
725	M809	HSS6x6x4	.098	0	5	.017	0	y 5	167.0...	216.9...	38.64	38.64 ... H1-1b
726	M810	HSS6x6x4	.060	44...	5	.018	0	z 2	211.8...	216.9...	38.64	38.64 ... H1-1b
727	M811	HSS6x6x4	.105	0	2	.020	0	y 2	179.53	216.9...	38.64	38.64 ... H1-1b
728	M812	HSS6x6x4	.052	44...	2	.020	0	z 2	211.8...	216.9...	38.64	38.64 ... H1-1b
729	M813	HSS6x6x4	.169	0	5	.026	0	y 5	179.53	216.9...	38.64	38.64 ... H1-1b
730	M814	HSS6x6x4	.070	40...	5	.016	0	z 5	212.5...	216.9...	38.64	38.64 ... H1-1b
731	M815	HSS6x6x4	.132	0	2	.027	0	y 2	189.5...	216.9...	38.64	38.64 ... H1-1b
732	M816	HSS6x6x4	.066	40...	5	.015	0	z 5	212.5...	216.9...	38.64	38.64 ... H1-1b
733	M817	HSS6x6x4	.205	0	5	.039	0	y 5	189.5...	216.9...	38.64	38.64 ... H1-1b
734	M818	HSS6x6x4	.057	37...	2	.021	0	y 5	213.1...	216.9...	38.64	38.64 ... H1-1b
735	M819	HSS6x6x4	.131	0	2	.035	0	y 2	197.1...	216.9...	38.64	38.64 ... H1-1b
736	M820	HSS6x6x4	.079	37...	5	.023	0	y 2	213.1...	216.9...	38.64	38.64 ... H1-1b
737	M821	HSS6x6x4	.224	0	5	.050	0	y 5	197.1...	216.9...	38.64	38.64 ... H1-1b
738	M822	HSS6x6x4	.057	35.5	2	.024	0	y 2	213.5...	216.9...	38.64	38.64 ... H1-1b
739	M823	HSS6x6x4	.138	0	2	.038	0	y 2	202.7...	216.9...	38.64	38.64 ... H1-1b
740	M824	HSS6x6x4	.074	35.5	5	.024	0	y 5	213.5...	216.9...	38.64	38.64 ... H1-1b
741	M825	HSS6x6x4	.234	0	5	.060	0	y 5	202.7...	216.9...	38.64	38.64 ... H1-1b
742	M826	HSS6x6x4	.053	33...	2	.025	0	y 2	213.9...	216.9...	38.64	38.64 ... H1-1b
743	M827	HSS6x6x4	.137	0	2	.042	0	y 2	206.7...	216.9...	38.64	38.64 ... H1-1b
744	M828	HSS6x6x4	.082	33...	5	.031	0	y 5	213.9...	216.9...	38.64	38.64 ... H1-1b
745	M829	HSS6x6x4	.250	62...	5	.068	0	y 5	206.7...	216.9...	38.64	38.64 ... H1-1b
746	M830	HSS6x6x4	.057	31...	2	.028	0	y 2	214.2...	216.9...	38.64	38.64 ... H1-1b
747	M831	HSS6x6x4	.135	53...	2	.043	0	y 2	209.4...	216.9...	38.64	38.64 ... H1-1b
748	M832	HSS6x6x4	.077	31...	5	.030	0	y 5	214.2...	216.9...	38.64	38.64 ... H1-1b
749	M833	HSS6x6x4	.230	53...	5	.071	0	y 5	209.4...	216.9...	38.64	38.64 ... H1-1b
750	M834	HSS6x6x4	.055	30...	2	.024	0	y 2	214.4...	216.9...	38.64	38.64 ... H1-1b
751	M835	HSS6x6x4	.107	0	2	.035	0	y 2	211.08	216.9...	38.64	38.64 ... 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...	Ean	
752	M836	HSS6x6x4	.080	30...	5	.029	0	y 5	214.4...	216.9...	38.64	38.64	...H1-1b
753	M837	HSS6x6x4	.187	47...	5	.061	0	y 5	211.08	216.9...	38.64	38.64	...H1-1b
754	M838	HSS6x6x4	.050	30...	2	.020	0	y 2	214.5...	216.9...	38.64	38.64	...H1-1b
755	M839	HSS6x6x4	.066	0	2	.018	0	y 2	211.9...	216.9...	38.64	38.64	...H1-1b
756	M840	HSS6x6x4	.056	30...	5	.022	0	y 5	214.5...	216.9...	38.64	38.64	...H1-1b
757	M841	HSS6x6x4	.104	0	5	.033	0	y 5	211.9...	216.9...	38.64	38.64	...H1-1b
758	M842	HSS6x6x4	.013	30	5	.004	0	z 5	214.5...	216.9...	38.64	38.64	...H1-1b
759	M843	HSS6x6x4	.014	0	2	.005	42	z 2	212.2...	216.9...	38.64	38.64	1 H1-1b
760	M844	HSS6x6x4	.014	30	5	.005	0	z 5	214.5...	216.9...	38.64	38.64	...H1-1b
761	M845	HSS6x6x4	.017	0	2	.006	42	z 2	212.2...	216.9...	38.64	38.64	1 H1-1b
762	M846	HSS6x6x4	.050	30...	2	.020	0	y 2	214.5...	216.9...	38.64	38.64	...H1-1b
763	M847	HSS6x6x4	.066	0	2	.018	0	y 2	211.9...	216.9...	38.64	38.64	...H1-1b
764	M848	HSS6x6x4	.056	30...	5	.022	0	y 5	214.5...	216.9...	38.64	38.64	...H1-1b
765	M849	HSS6x6x4	.104	0	5	.033	0	y 5	211.9...	216.9...	38.64	38.64	...H1-1b
766	M850	HSS6x6x4	.055	30...	2	.024	0	y 2	214.4...	216.9...	38.64	38.64	...H1-1b
767	M851	HSS6x6x4	.107	0	2	.035	0	y 2	211.08	216.9...	38.64	38.64	...H1-1b
768	M852	HSS6x6x4	.080	30...	5	.029	0	y 5	214.4...	216.9...	38.64	38.64	...H1-1b
769	M853	HSS6x6x4	.187	47...	5	.061	0	y 5	211.08	216.9...	38.64	38.64	...H1-1b
770	M854	HSS6x6x4	.057	31...	2	.028	0	y 2	214.2...	216.9...	38.64	38.64	...H1-1b
771	M855	HSS6x6x4	.135	53...	2	.043	0	y 2	209.4...	216.9...	38.64	38.64	...H1-1b
772	M856	HSS6x6x4	.077	31...	5	.030	0	y 5	214.2...	216.9...	38.64	38.64	...H1-1b
773	M857	HSS6x6x4	.230	53...	5	.071	0	y 5	209.4...	216.9...	38.64	38.64	...H1-1b
774	M858	HSS6x6x4	.053	33...	2	.025	0	y 2	213.9...	216.9...	38.64	38.64	...H1-1b
775	M859	HSS6x6x4	.137	0	2	.042	0	y 2	206.7...	216.9...	38.64	38.64	...H1-1b
776	M860	HSS6x6x4	.082	33...	5	.031	0	y 5	213.9...	216.9...	38.64	38.64	...H1-1b
777	M861	HSS6x6x4	.250	62...	5	.068	0	y 5	206.7...	216.9...	38.64	38.64	...H1-1b
778	M862	HSS6x6x4	.057	35.5	2	.024	0	y 2	213.5...	216.9...	38.64	38.64	...H1-1b
779	M863	HSS6x6x4	.138	0	2	.038	0	y 2	202.7...	216.9...	38.64	38.64	...H1-1b
780	M864	HSS6x6x4	.074	35.5	5	.024	0	y 5	213.5...	216.9...	38.64	38.64	...H1-1b
781	M865	HSS6x6x4	.234	0	5	.060	0	y 5	202.7...	216.9...	38.64	38.64	...H1-1b
782	M866	HSS6x6x4	.057	37...	2	.021	0	y 5	213.1...	216.9...	38.64	38.64	...H1-1b
783	M867	HSS6x6x4	.131	0	2	.035	0	y 2	197.1...	216.9...	38.64	38.64	...H1-1b
784	M868	HSS6x6x4	.079	37...	5	.023	0	y 2	213.1...	216.9...	38.64	38.64	...H1-1b
785	M869	HSS6x6x4	.224	0	5	.050	0	y 5	197.1...	216.9...	38.64	38.64	...H1-1b
786	M870	HSS6x6x4	.070	40...	5	.016	0	z 5	212.5...	216.9...	38.64	38.64	...H1-1b
787	M871	HSS6x6x4	.132	0	2	.027	0	y 2	189.5...	216.9...	38.64	38.64	...H1-1b
788	M872	HSS6x6x4	.066	40...	5	.015	0	z 5	212.5...	216.9...	38.64	38.64	...H1-1b
789	M873	HSS6x6x4	.205	0	5	.039	0	y 5	189.5...	216.9...	38.64	38.64	...H1-1b
790	M874	HSS6x6x4	.060	44...	5	.018	0	z 2	211.8...	216.9...	38.64	38.64	...H1-1b
791	M875	HSS6x6x4	.105	0	2	.020	0	y 2	179.53	216.9...	38.64	38.64	...H1-1b
792	M876	HSS6x6x4	.052	44...	2	.020	0	z 2	211.8...	216.9...	38.64	38.64	...H1-1b
793	M877	HSS6x6x4	.169	0	5	.026	0	y 5	179.53	216.9...	38.64	38.64	...H1-1b
794	M878	HSS6x6x4	.068	0	5	.020	0	y 5	210.9...	216.9...	38.64	38.64	...H1-1b
795	M879	HSS6x6x4	.061	0	2	.012	0	y 2	167.0...	216.9...	38.64	38.64	...H1-1b
796	M880	HSS6x6x4	.069	0	5	.020	0	y 5	210.9...	216.9...	38.64	38.64	...H1-1b
797	M881	HSS6x6x4	.098	0	5	.017	0	y 5	167.0...	216.9...	38.64	38.64	...H1-1b
798	M882	HSS4x4x3	.054	0	5	.018	0	z 2	94.724	106.8...	12.662	12.662	...H1-1b
799	M883	HSS4x4x3	.053	0	4	.008	0	z 5	94.867	106.8...	12.662	12.662	...H1-1b
800	M884	HSS4x4x3	.041	0	5	.007	64...	z 5	94.953	106.8...	12.662	12.662	...H1-1b
801	M885	HSS4x4x3	.035	0	4	.008	0	y 5	94.987	106.8...	12.662	12.662	...H1-1b
802	M886	HSS4x4x3	.037	0	4	.008	0	y 5	94.971	106.8...	12.662	12.662	...H1-1b
803	M887	HSS4x4x3	.032	0	4	.010	0	y 5	94.904	106.8...	12.662	12.662	...H1-1b
804	M888	HSS4x4x3	.031	0	4	.008	0	z 2	94.783	106.8...	12.662	12.662	...H1-1b
805	M889	HSS4x4x3	.028	31...	2	.008	0	y 5	94.599	106.8...	12.662	12.662	...H1-1b
806	M890	HSS4x4x3	.030	34...	2	.007	0	z 2	94.344	106.8...	12.662	12.662	...H1-1b
807	M891	HSS4x4x3	.034	38...	5	.006	67...	z 5	94.005	106.8...	12.662	12.662	...H1-1b
808	M892	HSS4x4x3	.034	28...	5	.006	0	z 5	94.005	106.8...	12.662	12.662	...H1-1b
809	M893	HSS4x4x3	.030	32...	2	.007	66...	z 2	94.344	106.8...	12.662	12.662	...H1-1b
810	M894	HSS4x4x3	.028	34...	2	.008	65...	y 5	94.599	106.8...	12.662	12.662	...H1-1b

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

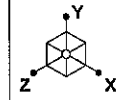
	Member	Shape	Code Check	Lo...	LC	Shear ...	Lo...	phi*P...	phi*P...	phi*Mn...	phi*Mn...	Eqn	
811	M895	HSS4x4x3	.031	65...	4	.008	65...z	2	94.783	106.8...	12.662	12.662	H1-1b
812	M896	HSS4x4x3	.032	65...	4	.010	65...y	5	94.904	106.8...	12.662	12.662	H1-1b
813	M897	HSS4x4x3	.037	64...	4	.008	64...y	5	94.971	106.8...	12.662	12.662	H1-1b
814	M898	HSS4x4x3	.035	64...	4	.008	64...y	5	94.987	106.8...	12.662	12.662	H1-1b
815	M899	HSS4x4x3	.041	64...	5	.007	0z	5	94.953	106.8...	12.662	12.662	H1-1b
816	M900	HSS4x4x3	.053	65...	4	.008	65...z	5	94.867	106.8...	12.662	12.662	H1-1b
817	M901	HSS4x4x3	.054	65...	5	.018	65...z	2	94.724	106.8...	12.662	12.662	H1-1b
818	M902	HSS4x4x3	.072	65...	5	.019	0z	2	94.724	106.8...	12.662	12.662	H1-1b
819	M903	HSS4x4x3	.063	0	5	.008	0y	5	94.867	106.8...	12.662	12.662	H1-1b
820	M904	HSS4x4x3	.058	0	5	.007	64...z	2	94.953	106.8...	12.662	12.662	H1-1b
821	M905	HSS4x4x3	.045	0	5	.008	0y	5	94.987	106.8...	12.662	12.662	H1-1b
822	M906	HSS4x4x3	.049	0	5	.010	0y	5	94.971	106.8...	12.662	12.662	H1-1b
823	M907	HSS4x4x3	.047	0	5	.011	0y	5	94.904	106.8...	12.662	12.662	H1-1b
824	M908	HSS4x4x3	.045	0	5	.009	0y	5	94.783	106.8...	12.662	12.662	H1-1b
825	M909	HSS4x4x3	.044	0	5	.008	0y	5	94.599	106.8...	12.662	12.662	H1-1b
826	M910	HSS4x4x3	.037	39...	5	.007	0z	2	94.344	106.8...	12.662	12.662	H1-1b
827	M911	HSS4x4x3	.035	28...	5	.006	67...z	5	94.005	106.8...	12.662	12.662	H1-1b
828	M912	HSS4x4x3	.035	38...	5	.006	0z	5	94.005	106.8...	12.662	12.662	H1-1b
829	M913	HSS4x4x3	.037	27...	5	.007	66...z	2	94.344	106.8...	12.662	12.662	H1-1b
830	M914	HSS4x4x3	.044	65...	5	.008	65...y	5	94.599	106.8...	12.662	12.662	H1-1b
831	M915	HSS4x4x3	.045	65...	5	.009	65...y	5	94.783	106.8...	12.662	12.662	H1-1b
832	M916	HSS4x4x3	.047	65...	5	.011	65...y	5	94.904	106.8...	12.662	12.662	H1-1b
833	M917	HSS4x4x3	.049	64...	5	.010	64...y	5	94.971	106.8...	12.662	12.662	H1-1b
834	M918	HSS4x4x3	.045	64...	5	.008	64...y	5	94.987	106.8...	12.662	12.662	H1-1b
835	M919	HSS4x4x3	.058	64...	5	.007	0z	2	94.953	106.8...	12.662	12.662	H1-1b
836	M920	HSS4x4x3	.063	65...	5	.008	65...y	5	94.867	106.8...	12.662	12.662	H1-1b
837	M921	HSS4x4x3	.072	0	5	.019	65...z	2	94.724	106.8...	12.662	12.662	H1-1b
838	M930	HSS2x2x3	.377	0	2	.044	0z	2	46.437	49.266	2.75	2.75	H1-1b
839	M931	HSS2x2x3	.130	0	5	.009	0z	2	30.861	49.266	2.75	2.75	H1-1b
840	M932	HSS2x2x3	.148	0	5	.012	0z	5	30.861	49.266	2.75	2.75	H1-1b
841	M933	HSS2x2x3	.245	61.2	5	.012	0z	5	30.861	49.266	2.75	2.75	H1-1a
842	M934	HSS2x2x3	.233	0	2	.086	0z	5	44.238	49.266	2.75	2.75	H1-1b
843	M935	HSS2x2x3	.076	0	5	.012	0z	2	29.089	49.266	2.75	2.75	H1-1b
844	M936	HSS2x2x3	.106	0	5	.009	0z	5	29.473	49.266	2.75	2.75	H1-1b
845	M937	HSS2x2x3	.099	0	5	.006	0z	2	29.812	49.266	2.75	2.75	H1-1b
846	M938	HSS2x2x3	.611	0	2	.135	0z	5	47.049	49.266	2.75	2.75	H1-1b
847	M939	HSS2x2x3	.522	0	2	.138	0z	5	47.592	49.266	2.75	2.75	H1-1b
848	M940	HSS2x2x3	.164	0	5	.035	0z	2	47.049	49.266	2.75	2.75	H1-1b
849	M941	HSS2x2x3	.209	16...	2	.053	0z	5	47.592	49.266	2.75	2.75	H1-1b
850	M942	HSS2x2x3	.259	0	2	.043	0y	2	44.238	49.266	2.75	2.75	H1-1b
851	M943	HSS2x2x3	.342	29...	2	.046	0z	5	44.238	49.266	2.75	2.75	H1-1b
852	M944	HSS2x2x3	.111	61.2	5	.079	61.2z	5	30.861	49.266	2.75	2.75	H1-1b
853	M945	HSS2x2x3	.211	16...	2	.059	0z	5	47.592	49.266	2.75	2.75	H1-1b
854	M946	HSS2x2x3	.075	61.2	2	.026	61.2z	2	30.861	49.266	2.75	2.75	H1-1b
855	M947	HSS2x2x3	.094	61.2	5	.096	61.2z	5	30.861	49.266	2.75	2.75	H1-1b
856	M948	HSS2x2x3	.370	29...	2	.050	0z	5	44.238	49.266	2.75	2.75	H1-1b
857	M949	HSS2x2x3	.080	28...	5	.048	53...z	5	30.861	49.266	2.75	2.75	H1-1b
858	M950	HSS2x2x3	.128	61.2	2	.032	53...z	5	30.861	49.266	2.75	2.75	H1-1b
859	M951	HSS2x2x3	.090	61.2	2	.071	61.2z	5	30.861	49.266	2.75	2.75	H1-1b
860	M952	HSS2x2x3	.281	0	2	.024	29...z	5	44.238	49.266	2.75	2.75	H1-1b
861	M953	HSS2x2x3	.549	29...	2	.083	29...z	2	44.238	49.266	2.75	2.75	H1-1b
862	M954	HSS2x2x3	.395	0	2	.056	29...z	5	44.238	49.266	2.75	2.75	H1-1b
863	M955	HSS2x2x3	.697	29...	2	.083	29...z	5	44.238	49.266	2.75	2.75	H1-1b
864	M956	HSS2x2x3	.331	0	2	.053	29...z	5	44.238	49.266	2.75	2.75	H1-1b
865	M957	HSS2x2x3	.546	29...	2	.092	29...z	5	44.238	49.266	2.75	2.75	H1-1b
866	M958	HSS2x2x3	.154	29...	2	.025	0y	2	44.238	49.266	2.75	2.75	H1-1b
867	M959	HSS2x2x3	.204	29...	5	.085	29...z	5	44.238	49.266	2.75	2.75	H1-1b
868	M960	HSS2x2x3	.095	30.6	5	.043	0z	5	30.861	49.266	2.75	2.75	H1-1b
869	M961	HSS2x2x3	.137	61.2	2	.052	51z	5	30.861	49.266	2.75	2.75	H1-1b

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

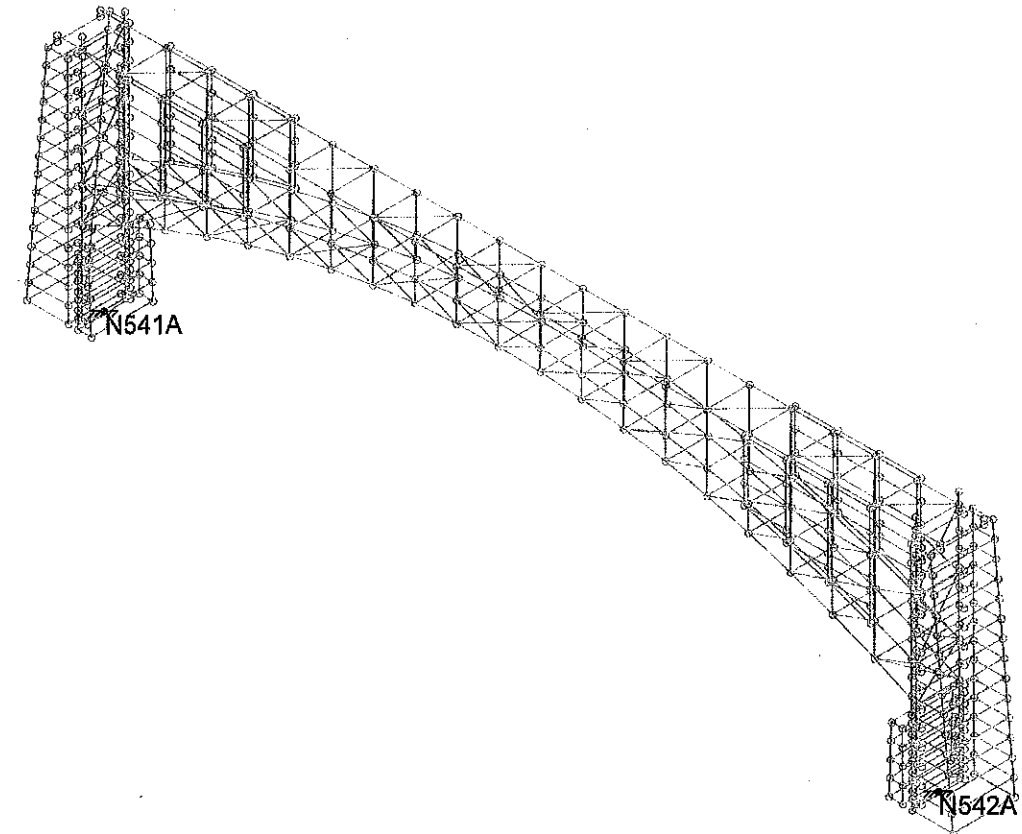
	Member	Shape	Code Check	Lo...	LC	Shear ...	Lo...	phi*P...	phi*P...	phi*Mn...	phi*Mn...	Egn	
870	M962	HSS2x2x3	.128	61.2	2	.017	51...z	2	30.861	49.266	2.75	2.75	...H1-1b
871	M963	HSS2x2x3	.105	0	2	.019	51	z	30.861	49.266	2.75	2.75	...H1-1b
872	M964	HSS2x2x3	.111	61.2	2	.052	51	z	30.861	49.266	2.75	2.75	...H1-1b
873	M965	HSS2x2x3	.108	0	2	.066	0	z	30.861	49.266	2.75	2.75	...H1-1b
874	M974	HSS2x2x3	.381	0	5	.041	0	z	46.437	49.266	2.75	2.75	...H1-1b
875	M975	HSS2x2x3	.084	0	5	.010	0	z	30.861	49.266	2.75	2.75	...H1-1b
876	M976	HSS2x2x3	.114	0	5	.011	0	z	30.861	49.266	2.75	2.75	...H1-1b
877	M977	HSS2x2x3	.110	0	5	.013	51	z	30.861	49.266	2.75	2.75	...H1-1b
878	M978	HSS2x2x3	.274	0	5	.083	0	z	44.238	49.266	2.75	2.75	...H1-1b
879	M979	HSS2x2x3	.073	0	5	.012	0	z	29.089	49.266	2.75	2.75	...H1-1b
880	M980	HSS2x2x3	.053	0	5	.009	0	z	29.473	49.266	2.75	2.75	...H1-1b
881	M981	HSS2x2x3	.053	0	4	.006	0	z	29.812	49.266	2.75	2.75	...H1-1b
882	M982	HSS2x2x3	.588	0	5	.131	0	z	47.049	49.266	2.75	2.75	...H1-1b
883	M983	HSS2x2x3	.512	0	5	.132	0	z	47.592	49.266	2.75	2.75	...H1-1b
884	M984	HSS2x2x3	.149	0	5	.035	0	z	47.049	49.266	2.75	2.75	...H1-1b
885	M985	HSS2x2x3	.206	16...	5	.051	0	z	47.592	49.266	2.75	2.75	...H1-1b
886	M986	HSS2x2x3	.296	0	5	.048	0	y	44.238	49.266	2.75	2.75	...H1-1b
887	M987	HSS2x2x3	.363	29...	5	.043	0	z	44.238	49.266	2.75	2.75	...H1-1b
888	M988	HSS2x2x3	.108	61.2	5	.075	61.2	z	30.861	49.266	2.75	2.75	...H1-1b
889	M989	HSS2x2x3	.209	16...	5	.055	0	z	47.592	49.266	2.75	2.75	...H1-1b
890	M990	HSS2x2x3	.085	61.2	5	.026	61.2	z	30.861	49.266	2.75	2.75	...H1-1b
891	M991	HSS2x2x3	.090	61.2	2	.091	61.2	z	30.861	49.266	2.75	2.75	...H1-1b
892	M992	HSS2x2x3	.384	29...	5	.047	0	z	44.238	49.266	2.75	2.75	...H1-1b
893	M993	HSS2x2x3	.081	33...	5	.046	53...	z	30.861	49.266	2.75	2.75	...H1-1b
894	M994	HSS2x2x3	.128	61.2	5	.030	53...	z	30.861	49.266	2.75	2.75	...H1-1b
895	M995	HSS2x2x3	.105	0	5	.068	61.2	z	30.861	49.266	2.75	2.75	...H1-1b
896	M996	HSS2x2x3	.306	0	5	.022	29...	z	44.238	49.266	2.75	2.75	...H1-1b
897	M997	HSS2x2x3	.586	29...	5	.081	29...	z	44.238	49.266	2.75	2.75	...H1-1b
898	M998	HSS2x2x3	.424	0	5	.052	29...	z	44.238	49.266	2.75	2.75	...H1-1b
899	M999	HSS2x2x3	.741	29...	5	.079	29...	z	44.238	49.266	2.75	2.75	...H1-1b
900	M1000	HSS2x2x3	.367	0	5	.053	0	y	44.238	49.266	2.75	2.75	...H1-1b
901	M1001	HSS2x2x3	.586	29...	5	.089	29...	z	44.238	49.266	2.75	2.75	...H1-1b
902	M1002	HSS2x2x3	.165	29...	5	.027	0	y	44.238	49.266	2.75	2.75	...H1-1b
903	M1003	HSS2x2x3	.231	29...	5	.083	29...	z	44.238	49.266	2.75	2.75	...H1-1b
904	M1004	HSS2x2x3	.155	0	5	.041	0	z	30.861	49.266	2.75	2.75	...H1-1b
905	M1005	HSS2x2x3	.156	61.2	5	.050	51	z	30.861	49.266	2.75	2.75	...H1-1b
906	M1006	HSS2x2x3	.174	0	5	.017	51...	z	30.861	49.266	2.75	2.75	...H1-1b
907	M1007	HSS2x2x3	.171	0	5	.019	0	y	30.861	49.266	2.75	2.75	...H1-1b
908	M1008	HSS2x2x3	.171	0	5	.050	51	z	30.861	49.266	2.75	2.75	...H1-1b
909	M1009	HSS2x2x3	.173	0	5	.063	0	z	30.861	49.266	2.75	2.75	...H1-1b
910	M1018	HSS2x2x3	.377	0	2	.044	0	z	46.437	49.266	2.75	2.75	...H1-1b
911	M1019	HSS2x2x3	.130	0	5	.009	0	z	30.861	49.266	2.75	2.75	...H1-1b
912	M1020	HSS2x2x3	.148	0	5	.012	0	z	30.861	49.266	2.75	2.75	...H1-1b
913	M1021	HSS2x2x3	.245	61.2	5	.012	0	z	30.861	49.266	2.75	2.75	...H1-1a
914	M1022	HSS2x2x3	.233	0	2	.086	0	z	44.238	49.266	2.75	2.75	...H1-1b
915	M1023	HSS2x2x3	.076	0	5	.012	0	z	29.089	49.266	2.75	2.75	...H1-1b
916	M1024	HSS2x2x3	.106	0	5	.009	0	z	29.473	49.266	2.75	2.75	...H1-1b
917	M1025	HSS2x2x3	.099	0	5	.006	0	z	29.812	49.266	2.75	2.75	...H1-1b
918	M1026	HSS2x2x3	.611	0	2	.135	0	z	47.049	49.266	2.75	2.75	...H1-1b
919	M1027	HSS2x2x3	.522	0	2	.138	0	z	47.592	49.266	2.75	2.75	...H1-1b
920	M1028	HSS2x2x3	.164	0	5	.035	0	z	47.049	49.266	2.75	2.75	...H1-1b
921	M1029	HSS2x2x3	.209	16...	2	.053	0	z	47.592	49.266	2.75	2.75	...H1-1b
922	M1030	HSS2x2x3	.259	0	2	.043	0	y	44.238	49.266	2.75	2.75	...H1-1b
923	M1031	HSS2x2x3	.342	29...	2	.046	0	z	44.238	49.266	2.75	2.75	...H1-1b
924	M1032	HSS2x2x3	.111	61.2	5	.079	61.2	z	30.861	49.266	2.75	2.75	...H1-1b
925	M1033	HSS2x2x3	.211	16...	2	.059	0	z	47.592	49.266	2.75	2.75	...H1-1b
926	M1034	HSS2x2x3	.075	61.2	2	.026	61.2	z	30.861	49.266	2.75	2.75	...H1-1b
927	M1035	HSS2x2x3	.094	61.2	5	.096	61.2	z	30.861	49.266	2.75	2.75	...H1-1b
928	M1036	HSS2x2x3	.370	29...	2	.050	0	z	44.238	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
929	M1037	HSS2x2x3	.080	28...	5	.048	54... z 5	30.861	49.266	2.75	2.75	... H1-1b
930	M1038	HSS2x2x3	.128	61.2	2	.032	54... z 5	30.861	49.266	2.75	2.75	... H1-1b
931	M1039	HSS2x2x3	.090	61.2	2	.071	61.2 z 5	30.861	49.266	2.75	2.75	... H1-1b
932	M1040	HSS2x2x3	.281	0	2	.024	29... z 5	44.238	49.266	2.75	2.75	... H1-1b
933	M1041	HSS2x2x3	.549	29...	2	.083	29... z 2	44.238	49.266	2.75	2.75	... H1-1b
934	M1042	HSS2x2x3	.395	0	2	.056	29... z 5	44.238	49.266	2.75	2.75	... H1-1b
935	M1043	HSS2x2x3	.697	29...	2	.083	29... z 5	44.238	49.266	2.75	2.75	... H1-1b
936	M1044	HSS2x2x3	.331	0	2	.053	29... z 5	44.238	49.266	2.75	2.75	... H1-1b
937	M1045	HSS2x2x3	.546	29...	2	.092	29... z 5	44.238	49.266	2.75	2.75	... H1-1b
938	M1046	HSS2x2x3	.154	29...	2	.025	0 y 2	44.238	49.266	2.75	2.75	... H1-1b
939	M1047	HSS2x2x3	.204	29...	5	.085	29... z 5	44.238	49.266	2.75	2.75	... H1-1b
940	M1048	HSS2x2x3	.095	30.6	5	.043	0 z 5	30.861	49.266	2.75	2.75	... H1-1b
941	M1049	HSS2x2x3	.137	61.2	2	.052	51 z 5	30.861	49.266	2.75	2.75	... H1-1b
942	M1050	HSS2x2x3	.128	61.2	2	.017	51... z 2	30.861	49.266	2.75	2.75	... H1-1b
943	M1051	HSS2x2x3	.105	0	2	.019	51 z 2	30.861	49.266	2.75	2.75	... H1-1b
944	M1052	HSS2x2x3	.111	61.2	2	.052	51... z 5	30.861	49.266	2.75	2.75	... H1-1b
945	M1053	HSS2x2x3	.108	0	2	.066	0 z 5	30.861	49.266	2.75	2.75	... H1-1b
946	M1062	HSS2x2x3	.381	0	5	.041	0 z 2	46.437	49.266	2.75	2.75	... H1-1b
947	M1063	HSS2x2x3	.084	0	5	.010	0 z 2	30.861	49.266	2.75	2.75	... H1-1b
948	M1064	HSS2x2x3	.114	0	5	.011	0 z 2	30.861	49.266	2.75	2.75	... H1-1b
949	M1065	HSS2x2x3	.110	0	5	.013	51 z 2	30.861	49.266	2.75	2.75	... H1-1b
950	M1066	HSS2x2x3	.274	0	5	.083	0 z 2	44.238	49.266	2.75	2.75	... H1-1b
951	M1067	HSS2x2x3	.073	0	5	.012	0 z 2	29.089	49.266	2.75	2.75	... H1-1b
952	M1068	HSS2x2x3	.053	0	5	.009	0 z 2	29.473	49.266	2.75	2.75	... H1-1b
953	M1069	HSS2x2x3	.053	0	4	.006	0 z 2	29.812	49.266	2.75	2.75	... H1-1b
954	M1070	HSS2x2x3	.588	0	5	.131	0 z 5	47.049	49.266	2.75	2.75	... H1-1b
955	M1071	HSS2x2x3	.512	0	5	.132	0 z 5	47.592	49.266	2.75	2.75	... H1-1b
956	M1072	HSS2x2x3	.149	0	5	.035	0 z 5	47.049	49.266	2.75	2.75	... H1-1b
957	M1073	HSS2x2x3	.206	16...	5	.051	0 z 5	47.592	49.266	2.75	2.75	... H1-1b
958	M1074	HSS2x2x3	.296	0	5	.048	0 y 5	44.238	49.266	2.75	2.75	... H1-1b
959	M1075	HSS2x2x3	.363	29...	5	.043	0 z 5	44.238	49.266	2.75	2.75	... H1-1b
960	M1076	HSS2x2x3	.108	61.2	5	.075	61.2 z 5	30.861	49.266	2.75	2.75	... H1-1b
961	M1077	HSS2x2x3	.209	16...	5	.055	0 z 5	47.592	49.266	2.75	2.75	... H1-1b
962	M1078	HSS2x2x3	.085	61.2	5	.026	61.2 z 2	30.861	49.266	2.75	2.75	... H1-1b
963	M1079	HSS2x2x3	.090	61.2	2	.091	61.2 z 5	30.861	49.266	2.75	2.75	... H1-1b
964	M1080	HSS2x2x3	.384	29...	5	.047	0 z 5	44.238	49.266	2.75	2.75	... H1-1b
965	M1081	HSS2x2x3	.081	33...	5	.046	54... z 5	30.861	49.266	2.75	2.75	... H1-1b
966	M1082	HSS2x2x3	.128	61.2	5	.030	54... z 2	30.861	49.266	2.75	2.75	... H1-1b
967	M1083	HSS2x2x3	.105	0	5	.068	61.2 z 5	30.861	49.266	2.75	2.75	... H1-1b
968	M1084	HSS2x2x3	.306	0	5	.022	29... z 5	44.238	49.266	2.75	2.75	... H1-1b
969	M1085	HSS2x2x3	.586	29...	5	.081	29... z 5	44.238	49.266	2.75	2.75	... H1-1b
970	M1086	HSS2x2x3	.424	0	5	.052	29... z 5	44.238	49.266	2.75	2.75	... H1-1b
971	M1087	HSS2x2x3	.741	29...	5	.079	29... z 2	44.238	49.266	2.75	2.75	... H1-1b
972	M1088	HSS2x2x3	.367	0	5	.053	0 y 5	44.238	49.266	2.75	2.75	... H1-1b
973	M1089	HSS2x2x3	.586	29...	5	.089	29... z 5	44.238	49.266	2.75	2.75	... H1-1b
974	M1090	HSS2x2x3	.165	29...	5	.027	0 y 5	44.238	49.266	2.75	2.75	... H1-1b
975	M1091	HSS2x2x3	.231	29...	5	.083	29... z 2	44.238	49.266	2.75	2.75	... H1-1b
976	M1092	HSS2x2x3	.155	0	5	.041	0 z 5	30.861	49.266	2.75	2.75	... H1-1b
977	M1093	HSS2x2x3	.156	61.2	5	.050	51 z 5	30.861	49.266	2.75	2.75	... H1-1b
978	M1094	HSS2x2x3	.174	0	5	.017	51... z 5	30.861	49.266	2.75	2.75	... H1-1b
979	M1095	HSS2x2x3	.171	0	5	.019	0 y 5	30.861	49.266	2.75	2.75	... H1-1b
980	M1096	HSS2x2x3	.171	0	5	.050	51... z 5	30.861	49.266	2.75	2.75	... H1-1b
981	M1097	HSS2x2x3	.173	0	5	.063	0 z 5	30.861	49.266	2.75	2.75	... H1-1b



SINGLE
BOUNDARY
CONDITION
FOR FOOTING
LOADS



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						196	104
3	F	None						196	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	N541A	max	16.938	4	50.917	4	29.098	5	630.667	5	-.073	1	0	3
2		min	-.109	2	0	3	0	1	0	4	-40.09	2	-91.499	4
3	N542A	max	.109	2	50.915	4	29.098	2	630.656	5	40.09	2	91.497	4
4		min	-16.938	4	0	2	0	4	-.008	4	.071	1	0	3
5	Totals:	max	0	5	101.832	4	58.196	2						
6		min	0	3	0	2	0	1						