



# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

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

E-Mail: [siting.council@ct.gov](mailto:siting.council@ct.gov)

[www.ct.gov/csc](http://www.ct.gov/csc)

### VIA ELECTRONIC MAIL

November 20, 2019

Kristina Cottone  
Smartlink, LLC  
85 Rangeway Road, Building 3, Suite 102  
North Billerica, MA 01862

RE: **EM-AT&T-102-191112** - AT&T Mobility, LLC notice of intent to modify an existing telecommunications facility located at 267 Norwich Westerly Road, North Stonington, Connecticut.

Dear Ms. Cottone:

The Connecticut Siting Council (Council) is in receipt of your correspondence of November 15, 2019 submitted in response to the Council's November 15, 2019 notification of an incomplete request for exempt modification with regard to the above-referenced matter.

The submission renders the request for exempt modification complete and the Council will process the request in accordance with the Federal Communications Commission 60-day timeframe.

Thank you for your attention and cooperation.

Sincerely,

Melanie A. Bachman  
Executive Director

MAB/IN/emr



## Robidoux, Evan

---

**From:** Kristina Cottone <kristina.cottone@smartlinkllc.com>  
**Sent:** Friday, November 15, 2019 4:00 PM  
**To:** Robidoux, Evan  
**Cc:** CSC-DL Siting Council  
**Subject:** RE: Council Incomplete Letter for EM-AT&T-102-191112 (267 Norwich Westerly Road, North Stonington)  
**Attachments:** Original Decision.pdf; 10071175\_DE125\_190905\_CTL05725.pdf

Please see attached

Thank you,



**Kristina Cottone | Real Estate Specialist  
Smartlink**

85 Rangeway Road – Building 3 Suite 102  
North Billerica MA, 01862  
(m) 978.551.8627  
[Kristina.cottone@Smartlinkllc.com](mailto:Kristina.cottone@Smartlinkllc.com)  
[smartlinkllc.com](http://smartlinkllc.com)

**Proud Sponsor of the Chesapeake Bayhawks, 5-Time Major League Lacrosse Champions! [www.thebayhawks.com](http://www.thebayhawks.com)**

This electronic mail (including any attachments) may contain information that is privileged, confidential, and/or otherwise protected from disclosure to anyone other than its intended recipient(s). Any dissemination or use of this electronic email or its contents (including any attachments) by persons other than the intended recipient(s) is strictly prohibited. If you have received this message in error, please notify us immediately by reply email that we may correct our internal records. Please then delete the original message (including any attachments) in its entirety. Thank you.

**From:** Robidoux, Evan <Evan.Robidoux@ct.gov>  
**Sent:** Friday, November 15, 2019 3:35 PM  
**To:** Kristina Cottone <kristina.cottone@smartlinkllc.com>  
**Cc:** CSC-DL Siting Council <Siting.Council@ct.gov>  
**Subject:** Council Incomplete Letter for EM-AT&T-102-191112 (267 Norwich Westerly Road, North Stonington)

**Warning:** This message was sent from outside the company and could contain attachments. Please do not open unless you recognize the source of this email and know the content is safe.

Please see the attached correspondence.

Evan Robidoux  
Clerk Typist  
Connecticut Siting Council  
10 Franklin Square

New Britain, CT 06051



Town of

**NORTH STONINGTON, CT.**

PLANNING &amp; ZONING COMMISSION

May 13, 1999

**CERTIFIED MAIL**

SBA Inc.  
 125 Shaw Street  
 Suite 116  
 New London, Connecticut 06320

**NOTICE OF DECISION**

At the Special Meeting of the North Stonington Planning & Zoning Commission held on Thursday, May 6, 1999, at the New Town Hall located at 40 Main Street, North Stonington, Connecticut, the Commission acted as follows:

SP#99-031 Application of SBA Inc., of 125 Shaw Street, Suite 116, New London, Connecticut and Sprint Spectrum, LP (Sprint PCS) of 9 Barnes Industrial Road, Wallingford, Connecticut to allow a Special Permit for a 150' multi-tenant monopole and related equipment on land located at the intersection of Route 2/Rocky Hollow Road at 267 Norwich-Westerly Road (a.k.a. Route 2) land is owned by North Stonington Volunteer Fire Co. Inc., Tax map #221, Lot #1.01, was approved with the following conditions applied:

1). Iron Pins shall be set before signing and the proper symbol shall be shown on Sheet S-1, enlarged view.

2). Note shall be amended to the site plan indicating that no more than 4 antenna support platforms each holding no more than 12 panel antennas, are approved; and the installation of additional support platforms and/or antennas shall require an approved site plan modification.

3). Note symbols #8 through #10 on Sheet C-2 shall be removed from the site plan or labeled as "omitted".

4). SE&SC narrative note #17 on Sheet C-4 shall be moved to under note #10 and renumbered.

5). The words "with topsoil added" shall be inserted into note #13 on Sheet C-4 after the word "roughened."

6). A description of the lightening suppression system shall be added to the site plan.

\*No further pages were made available

## Mount Analysis Report

September 5, 2019

Site Name	North Stonington South
Site Number	CTL05725
FA Number	10071175
Client	Smartlink
Carrier	AT&T
PTN Number	2051A0QAPS/ 2051A0Q92V/ 2051A0QA6F/ 2051A0Q8XV/ 2051A0Q7QV
PACE Number	MRCTB041588/ MRCTB041383/ MRCTB041404/ MRCTB041792/ MRCTB041632
Infinigy Job Number	1106-A0001-B
Site Location	267 Norwich Westerly Road, North Stonington, CT 6359 41° 26' 13.5" N NAD83 71° 52' 53.4" W NAD83
Mount Type	Mount Platform
Mount Centerline E.L.	107.0 ft.
Mount Usage	<b>81.1%</b>
Overall Result	<b>Pass</b>

Upon reviewing the results of this analysis, it is our opinion that the mount meets the specified TIA and ASCE code requirements. The mount and connections are therefore deemed adequate to support the final loading as listed in this report.



Ishan Patel, E.I.T  
Project Engineer I

**Contents**

Introduction.....	3
Supporting Documentation.....	3
Analysis Code Requirements.....	3
Conclusion.....	3
Final Configuration Loading.....	4
Structure Usages.....	4
Mount Connection Usages.....	4
Assumptions and Limitations.....	5
Calculations.....	Appended

**Introduction**

Infinigy Engineering has been requested to perform a mount analysis on the existing AT&T mount. All supporting documents have been obtained from the client and are assumed to be accurate and applicable to this site. The mount was analyzed using RISA-3D Version 17.0.4 analysis software.

**Supporting Documentation**

<b>RFDS</b>	RFDS ID #3133994, dated July 9, 2019
<b>Site Photos</b>	Smartlink Provided, dated June 25, 2019
<b>Mount Specifications</b>	Newave LPCP-14, dated September 5, 2019

**Analysis Code Requirements**

Wind Speed	135 mph (3-Second Gust, $V_{ULT}$ )
Wind Speed w/ ice	50 mph (3-Second Gust, $V_{ASD}$ ) w/ 1.275" ice
TIA Revision	ANSI/TIA-222-H
Adopted IBC	2015 IBC/ 2018 Connecticut State Building Code
Structure Class	II
Exposure Category	B
Topographic Category	1
Spectral Response	$S_s=0.16$ g, $S_1=0.06$ g
Site Class	D=Stiff Soil (Assumed)
HMSL	174 ft

**Conclusion**

Upon reviewing the results of this analysis, it is our opinion that the mount meets the specified TIA and ASCE code requirements. The mount and connections are therefore deemed adequate to support the final loading as listed in this report.

If you have any questions, require additional information, or actual conditions differ from those as detailed in this report please contact me via the information below:

Ishan Patel, M.S., E.I.T  
 Project Engineer I | **INFINIGY**  
 2500 W Higgins Road Suite 500, Hoffman Estates, IL 60169  
 (M) (832) -7167721  
[ipatel@infinigy.com](mailto:ipatel@infinigy.com) | [www.infinigy.com](http://www.infinigy.com)

**Final Configuration Loading**

Mount CL (ft)	Rad. HT (ft)	Verti. O/S (ft)	Hori. O/S (ft) <sup>(1)</sup>	Qty	Appurtenance <sup>(2), (3)</sup>	Carrier
107.0	107.0	0.0	8.5, 13.5	6	CCI DMP65R-BU8DA	AT&T
			2.0	3	POWERWAVE 7770.00	
			8.5	3	ERICSSON RRUS 4478 B14	
			8.5	3	ERICSSON RADIO 8843 B2/B66A	
			13.5	3	ERICSSON RADIO 4449 B5/B12	
			2.0	3	POWERWAVE LGP21401	
			2.0	3	POWERWAVE LGP21401	
			9.5	2	RAYCAP DC SQUID	

- (1) Horizontal Offset is defined as the distance from the left most edge of the mount face horizontal when viewed facing the tower.
- (2) Radios are mounted behind antennas at respective locations see appended documents for vertical locations.
- (3) Raycaps are mounted on the standoff arms see appended documents for the exact location.

**Structure Usages**

Stand-off	63.8%	Pass
Mount-Pipe	81.1%	Pass
Horizontal	26.4%	Pass
<b>Results</b>	<b>81.1%</b>	<b>Pass</b>

**Mount Connection Usages**

Reaction Data	Design Capacity *	Analysis Reactions	Results
Max Tension (lbs.)	10.17	9.37	46.1%
Max Shear (lbs.)	6.21	3.40	27.4%
Unity Check	-	-	28.7%
<b>*Assumed (2) 0.625" A307 threaded rods. Contractor to field verify prior to proposed installation.</b>			

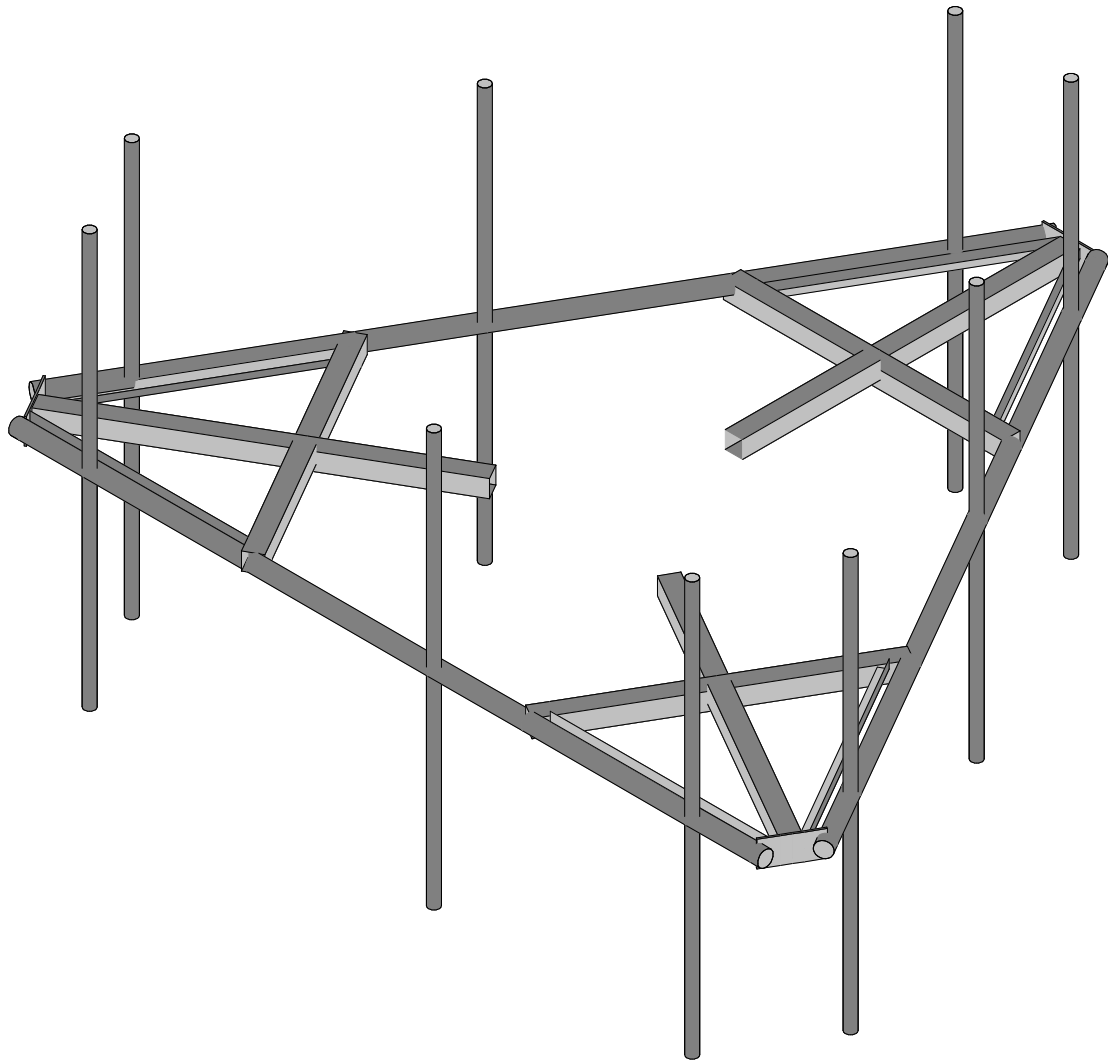


## **Assumptions and Limitations**

Our structural calculations are completed assuming all information provided to Infinigy Engineering is accurate and applicable to this site. For the purposes of calculations, we assume an overall structure condition of “like new” and all members and connections to be free of corrosion and/or structural defects. The structure owner and/or contractor shall verify the structure’s condition prior to installation of any proposed equipment. If actual conditions differ from those described in this report Infinigy Engineering should be notified immediately to complete a revised evaluation.

Our evaluation is completed using standard TIA, AISC, ACI, and ASCE methods and procedures. Our structural results are proprietary and should not be used by others as their own. Infinigy Engineering is not responsible for decisions made by others that are or are not based on our supplied assumptions and conclusions.

This report is an evaluation of the proposed carriers mount structure only and does not reflect adequacy of the existing tower, other mounts, or coax mounting attachments. These elements are assumed to be adequate for the purposes of this analysis and are assumed to have been installed per their manufacturer requirements.



Envelope Only Solution

Infinigy Engineering PLLC

IP

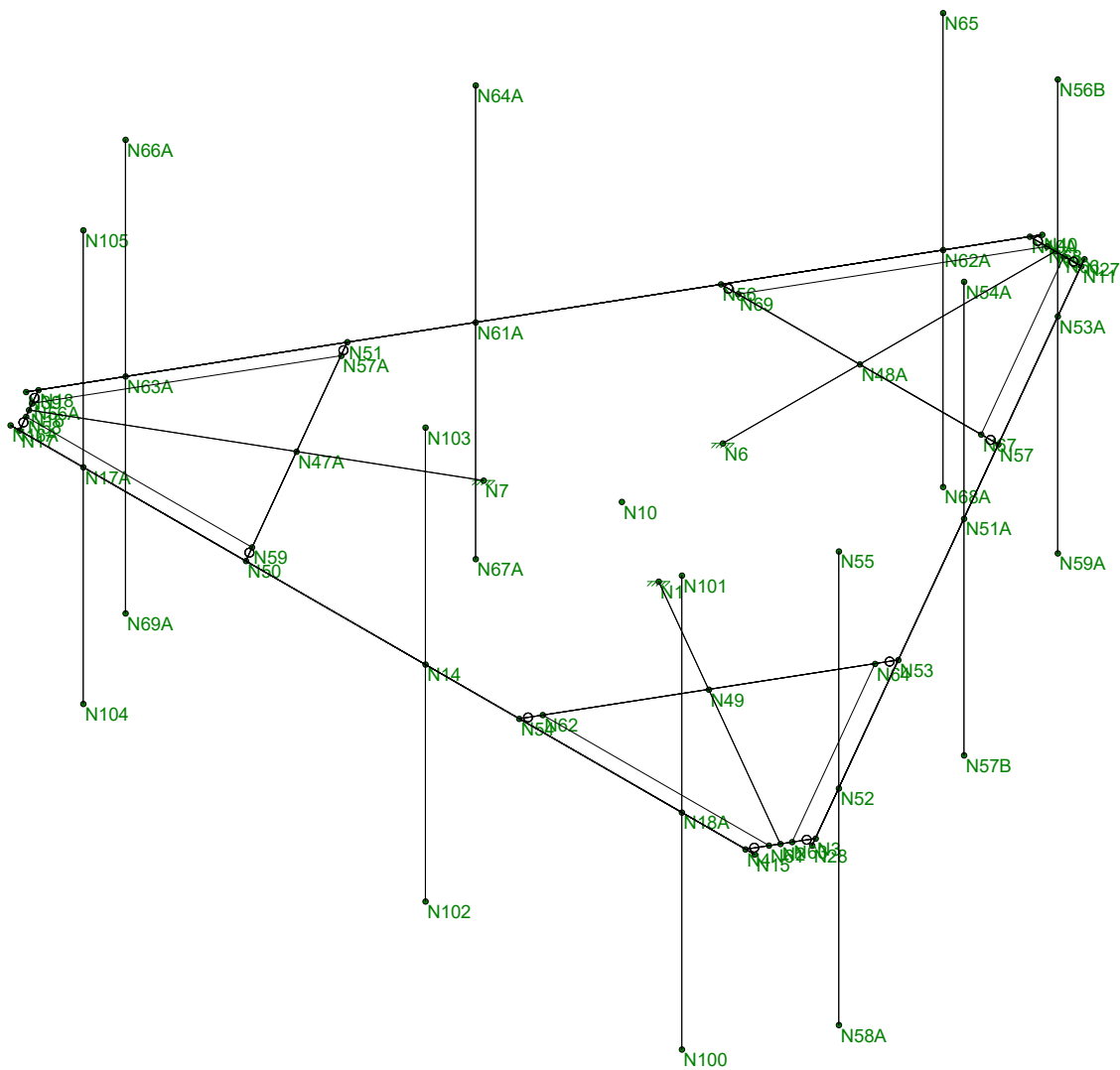
1106-A0001-B

CTL05725

Existing Configuration

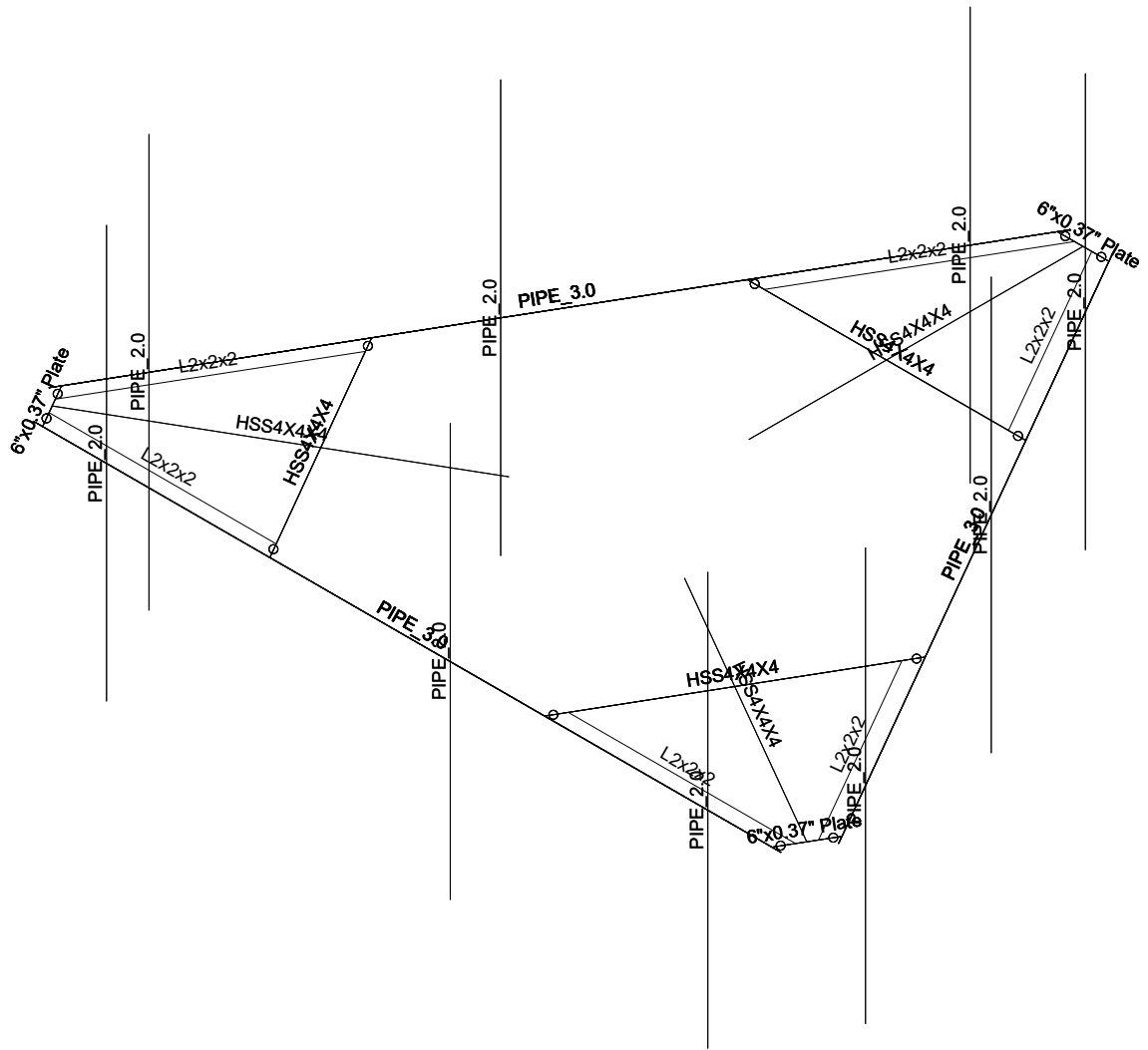
Sept 5, 2019 at 9:16 AM

CTL05725\_RISA 3D\_loaded.r3d



Envelope Only Solution

Infinigy Engineering PLLC	CTL05725	Existing Configuration
IP		Sept 5, 2019 at 9:16 AM
1106-A0001-B		CTL05725_RISA 3D_loaded.r3d



Envelope Only Solution

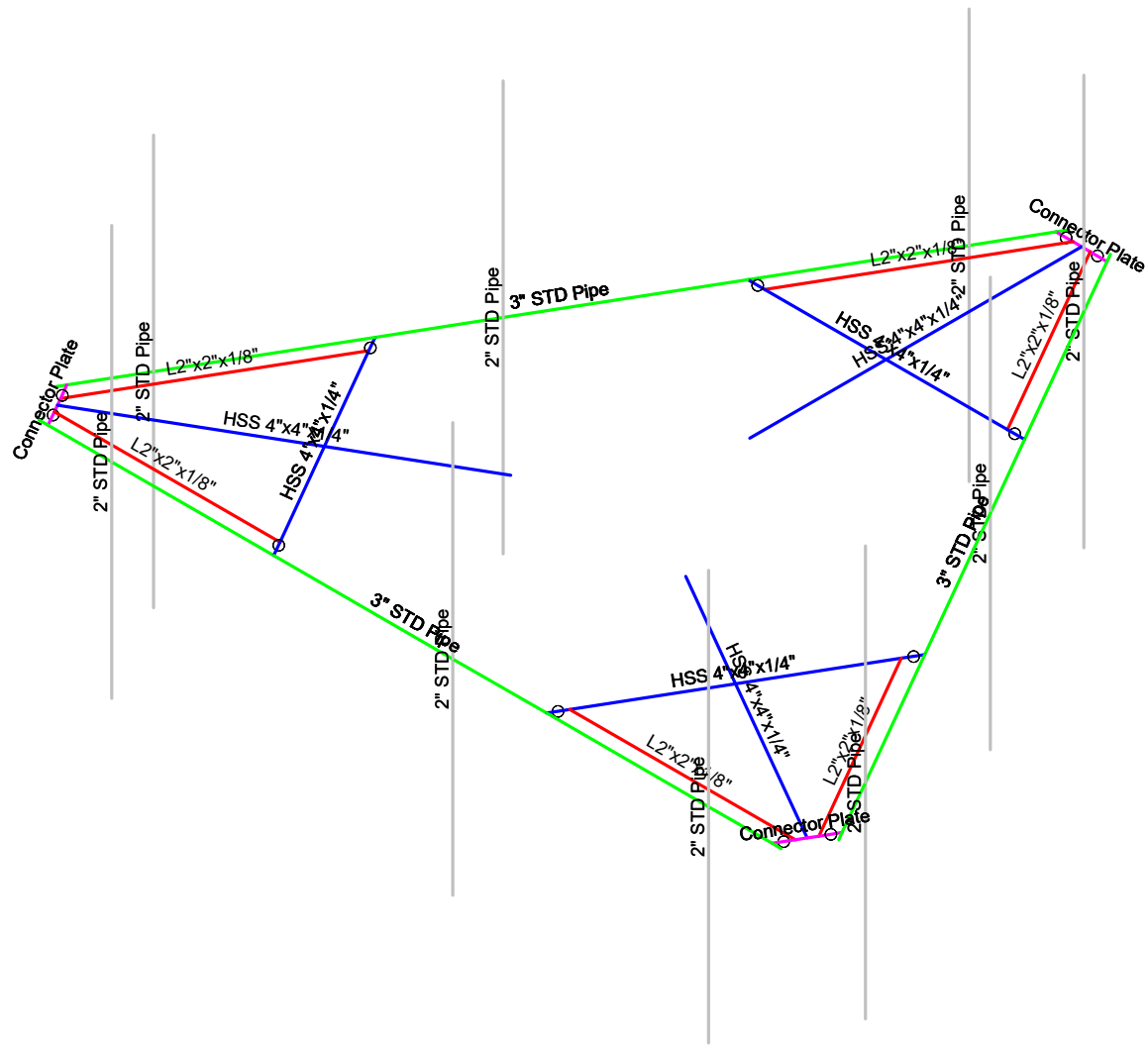
Infinigy Engineering PLLC
IP
1106-A0001-B

CTL05725

Existing Configuration
Sept 5, 2019 at 9:16 AM
CTL05725_RISA 3D_loaded.r3d

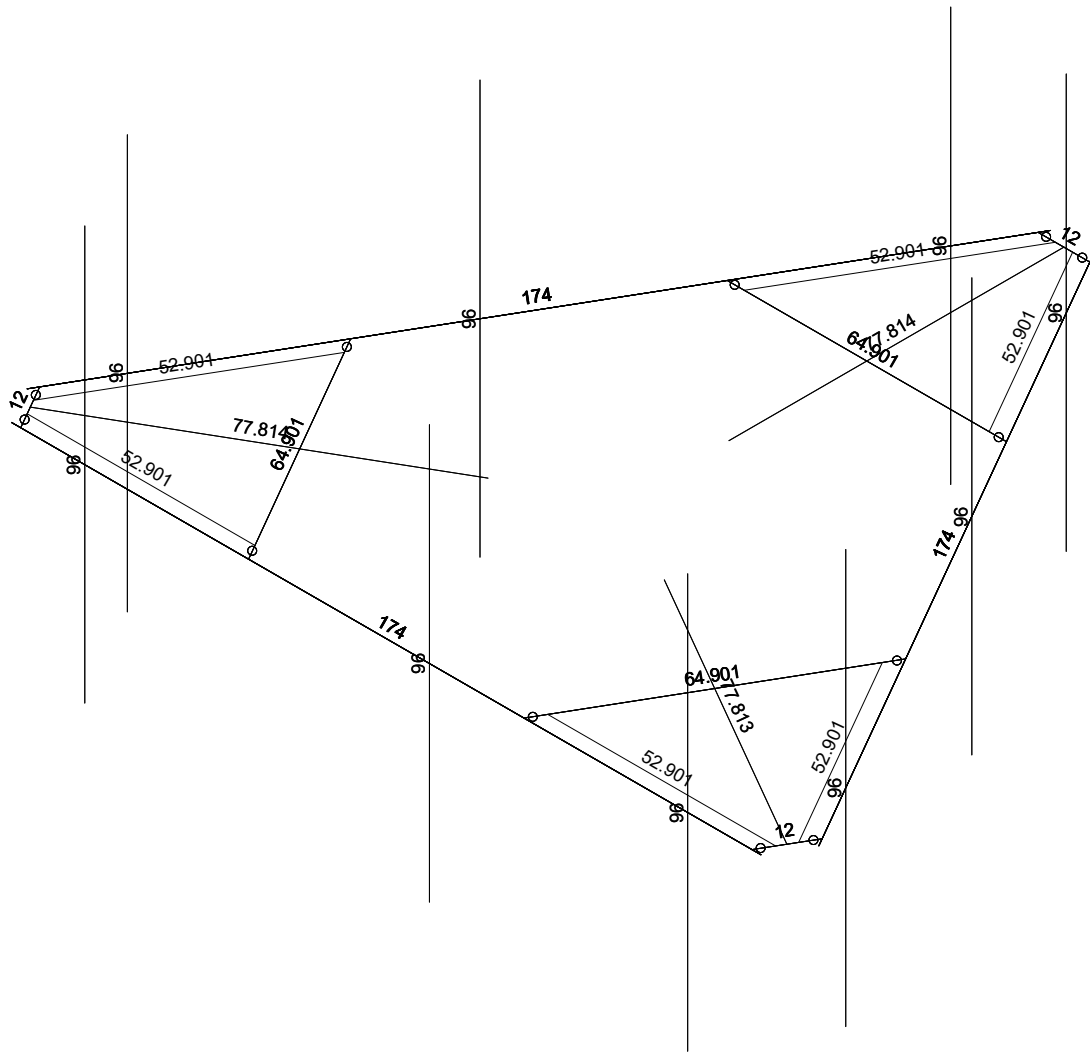


Section Sets	
	HSS 4"x4"x1/4"
	3" STD Pipe
	L2"x2"x1/8"
	2" STD Pipe
	Connector Plate



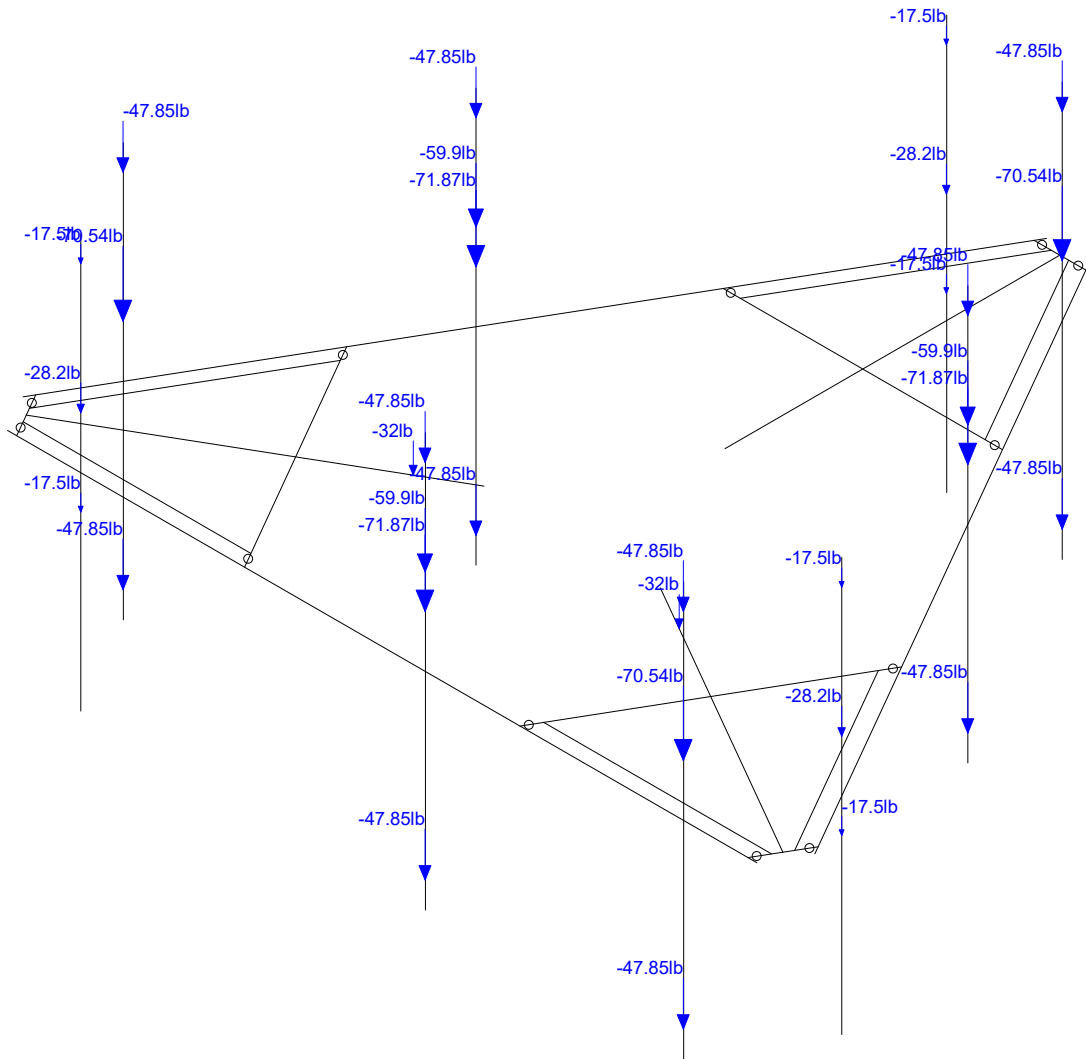
Envelope Only Solution

Infinigy Engineering PLLC	CTL05725	Existing Configuration
IP		Sept 5, 2019 at 9:16 AM
1106-A0001-B		CTL05725_RISA 3D_loaded.r3d



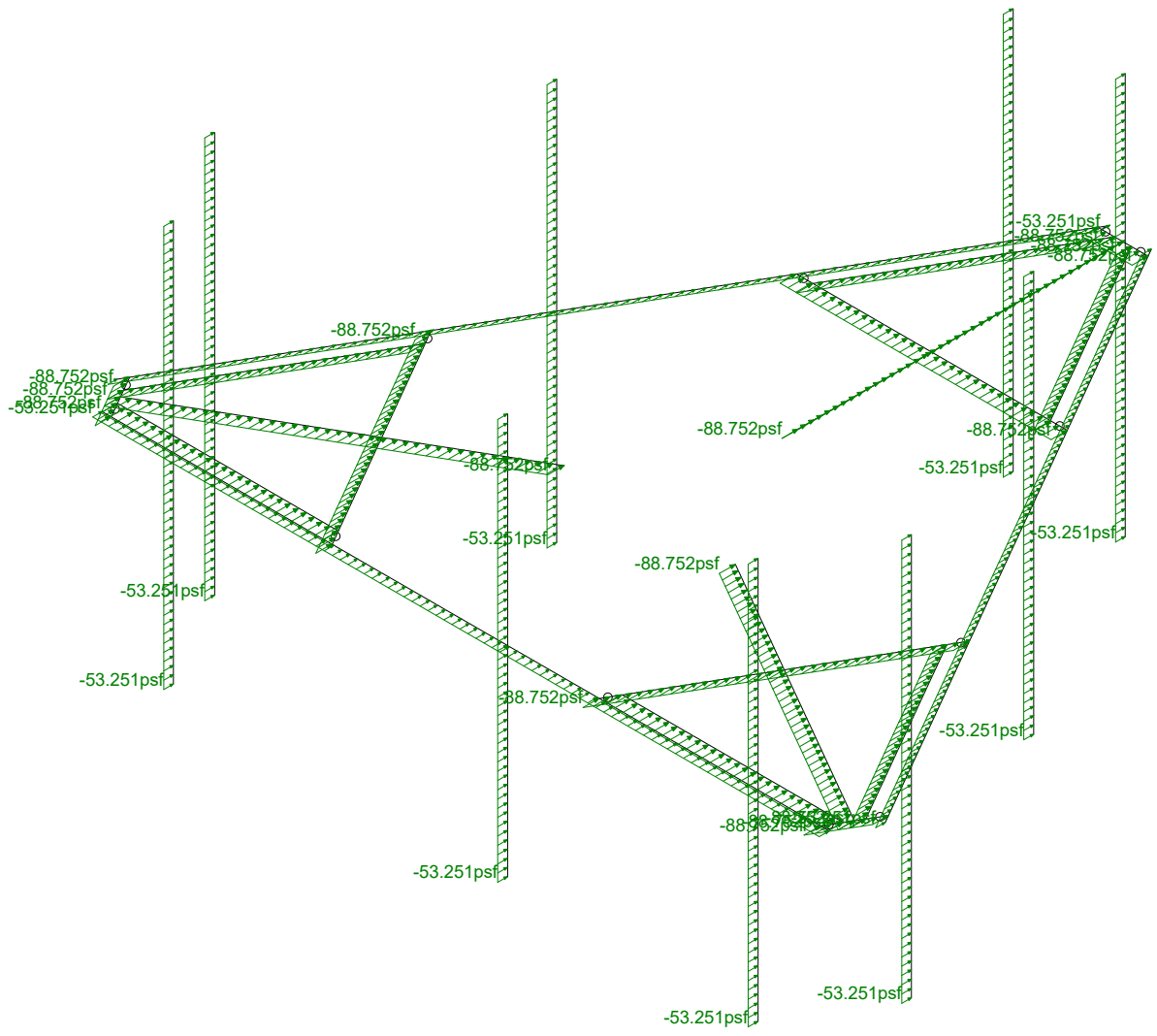
Member Length (in) Displayed  
Envelope Only Solution

Infinigy Engineering PLLC	CTL05725	Existing Configuration
IP		Sept 5, 2019 at 9:16 AM
1106-A0001-B		CTL05725_RISA 3D_loaded.r3d



Loads: BLC 1, Self Weight  
Envelope Only Solution

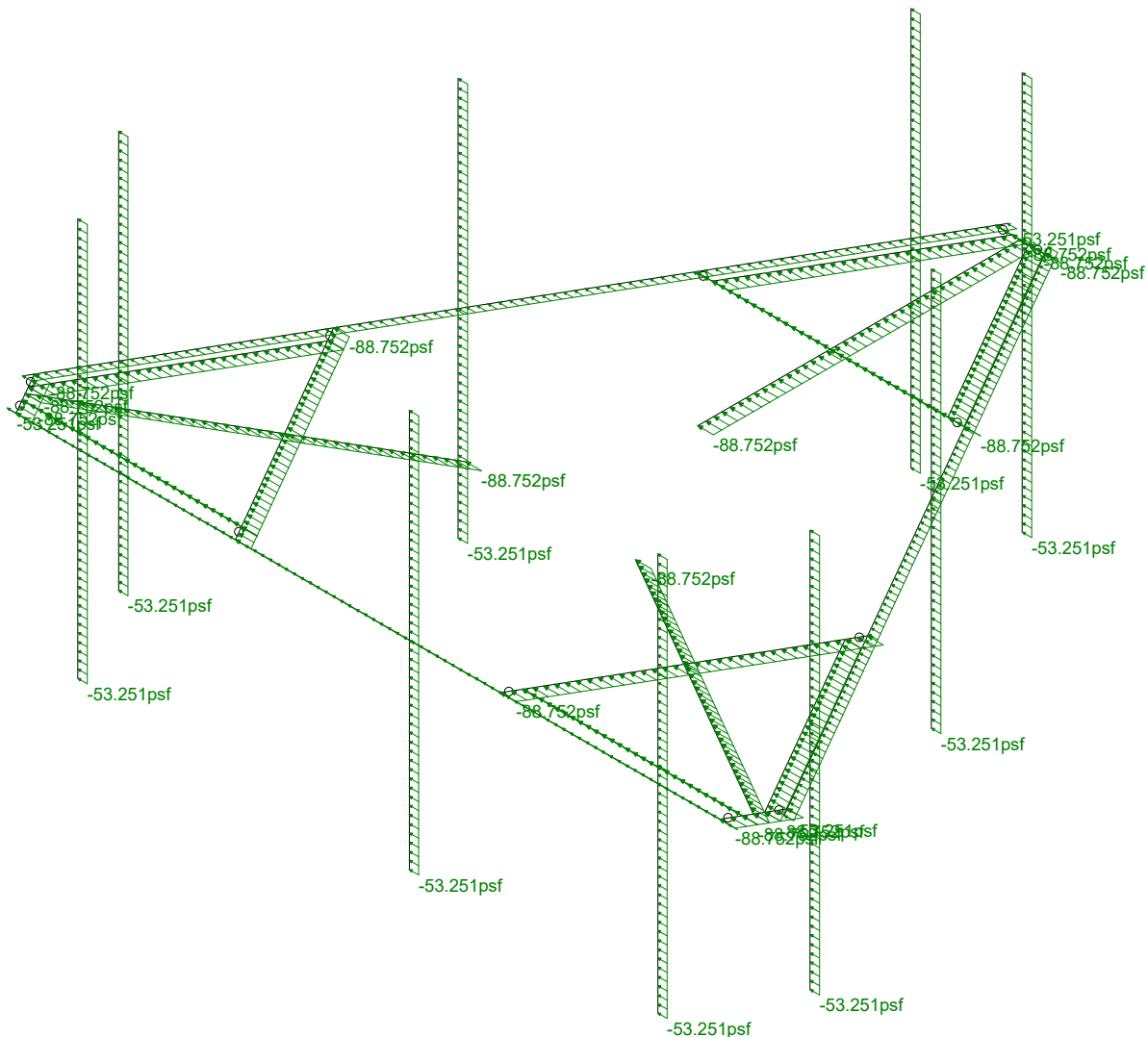
Infinigy Engineering PLLC	CTL05725	Existing Configuration
IP		Sept 5, 2019 at 9:15 AM
1106-A0001-B		CTL05725_RISA 3D_loaded.r3d



Loads: BLC 14, Distr. Wind Load Z  
Envelope Only Solution

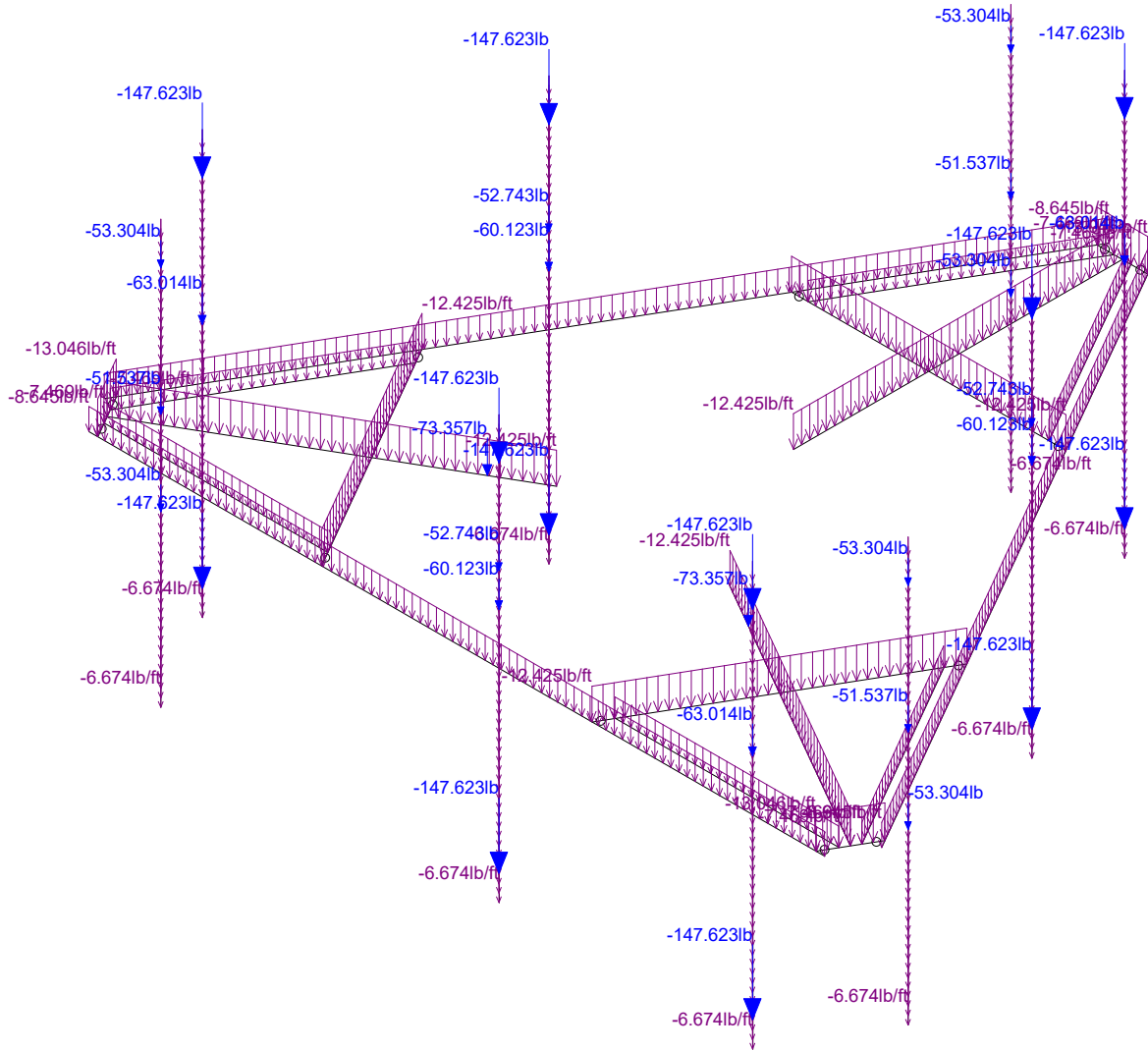
Infinigy Engineering PLLC	CTL05725	Existing Configuration
IP		Sept 5, 2019 at 9:15 AM
1106-A0001-B		CTL05725_RISA 3D_loaded.r3d





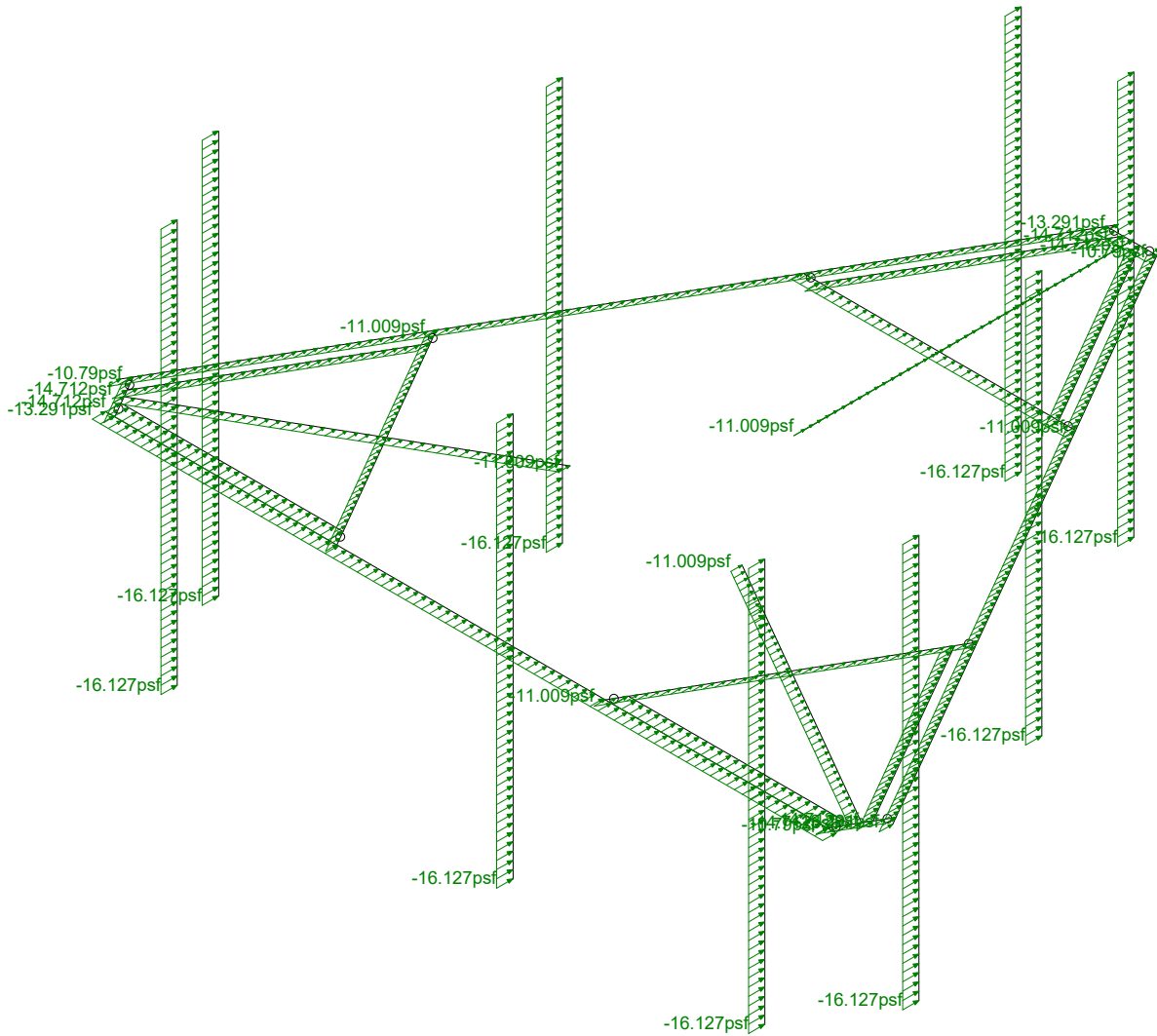
Loads: BLC 15, Distr. Wind Load X  
Envelope Only Solution

Infinigy Engineering PLLC	CTL05725	Existing Configuration
IP		Sept 5, 2019 at 9:15 AM
1106-A0001-B		CTL05725_RISA 3D_loaded.r3d



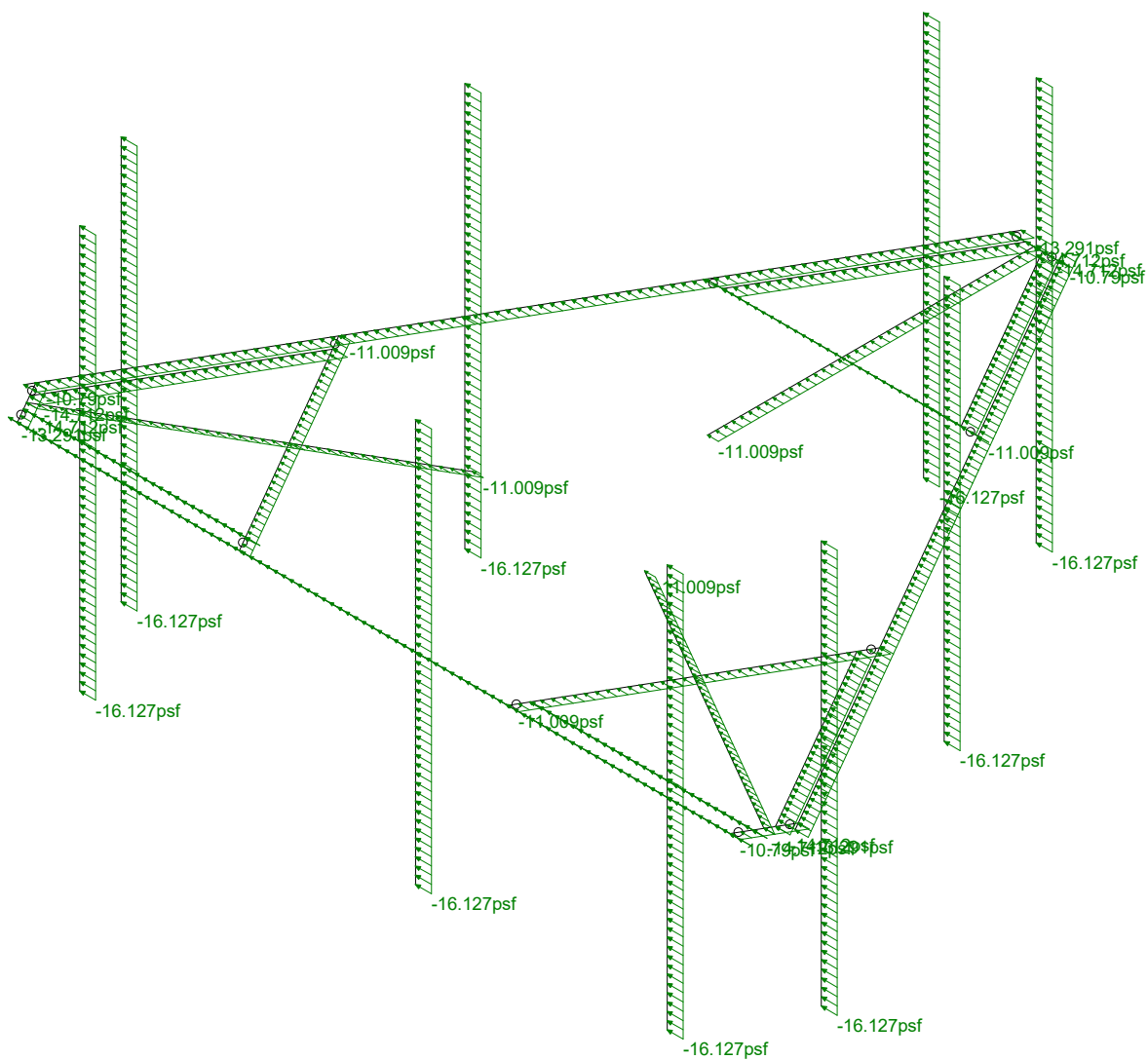
Loads: BLC 16, Ice Weight  
Envelope Only Solution

Infinigy Engineering PLLC		Existing Configuration
IP	CTL05725	Sept 5, 2019 at 9:15 AM
1106-A0001-B		CTL05725_RISA 3D_loaded.r3d



Loads: BLC 29, Distr. Ice Wind Load Z  
Envelope Only Solution

Infinigy Engineering PLLC	CTL05725	Existing Configuration
IP		Sept 5, 2019 at 9:15 AM
1106-A0001-B		CTL05725_RISA 3D_loaded.r3d



Loads: BLC 30, Distr. Ice Wind Load X  
Envelope Only Solution

Infinigy Engineering PLLC
IP
1106-A0001-B

CTL05725
----------

Existing Configuration
Sept 5, 2019 at 9:15 AM
CTL05725_RISA 3D_loaded.r3d

# Program Inputs



Infinigy Wind Load Calculator V1.2.0

Project Information		
Client:	Smartlink	
Carrier:	AT&T Mobility	
Engineer:	IP	

Code Standards		
Building Code:	2015 IBC	
TIA Standard:	TIA-222-H	
ASCE Standard:	ASCE 7-10	

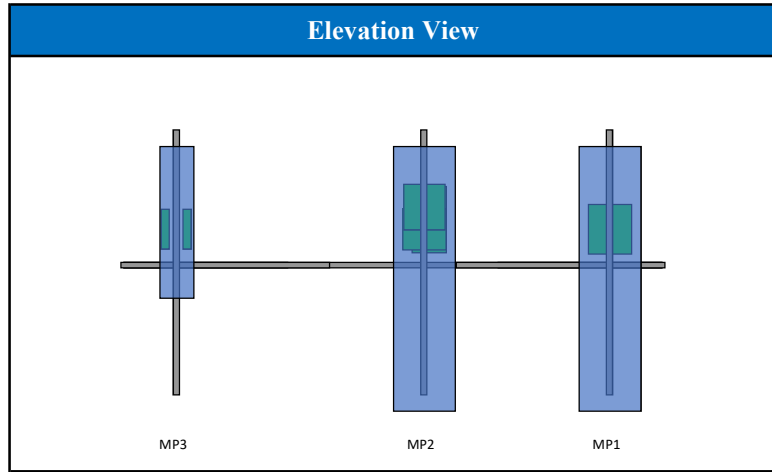
Mount Information		
Mount Type:	Platform	
Num Sectors:	3	
Centerline AGL:	107.0	ft
Roof Height AGL:	0.0	ft

Site Information		
Risk Category:	II	
Exposure Category:	B	
Topo Category:	1	
Site Class:	D - Stiff Soil	
Ground Elevation:	174	ft

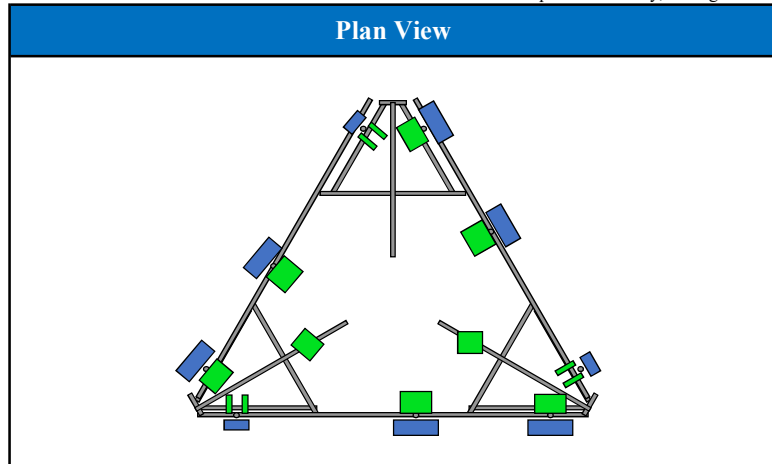
Wind and Ice Data		
Ultimate Wind:	135	mph
Basic Wind:	N/A	mph
Ice Wind:	50	mph
Ice Thickness:	1.275	in

Topographic Data		
Topo Feature:	N/A	
Crest Height:	N/A	ft
Slope Distance:	N/A	ft
Crest Distance:	N/A	ft

Seismic Data		
S <sub>s</sub> :	0.16	g
S <sub>1</sub> :	0.06	g
a <sub>p</sub> :	1.0	
R <sub>p</sub> :	2.50	
Ω <sub>o</sub> :	1.0	
S <sub>DS</sub> :	0.17	
S <sub>DI</sub> :	0.09	
F <sub>s</sub> :	1.60	
F <sub>v</sub> :	2.40	



\*Alpha Sector Only, Facing Tower



\*Alpha Sector at Bottom

Appurtenance Information**											
Appurtenance Name	Elevation	Qty.	q <sub>z</sub> (psf)	EPA <sub>N</sub> (ft <sup>2</sup> )	EPA <sub>T</sub> (ft <sup>2</sup> )	Wind F <sub>z</sub> (lbs)	Wind F <sub>x</sub> (lbs)	Weight (lbs)	Seismic F (lbs)	Member (α sector)	
CCI ANTENNAS DMP65R-BU8DA	107.0	3	44.38	17.36	8.12	693.45	324.39	95.70	8.27	MP1	
CCI ANTENNAS DMP65R-BU8DA	107.0	3	44.38	17.36	8.12	693.45	324.39	95.70	8.27	MP2	
OWERWAVE TECHNOLOGIES 7770	107.0	3	44.38	5.51	2.93	220.00	116.95	35.00	3.02	MP3	
ERICSSON TME-RRUS 4478 B14	107.0	3	44.38	1.84	1.06	73.59	42.28	59.90	5.18	MP2	
ERICSSON TME-RADIO 8843 B2/B66	107.0	3	44.38	1.74	1.36	69.56	54.27	71.87	6.21	MP2	
ERICSSON TME-RADIO 4449 B5/B12	107.0	3	44.38	2.09	1.41	83.27	56.27	70.54	6.09	MP1	
OWERWAVE TECHNOLOGIES TME-LGF	107.0	3	44.38	1.10	0.35	44.09	13.86	14.10	1.22	MP3	
OWERWAVE TECHNOLOGIES TME-LGF	107.0	3	44.38	1.10	0.35	44.09	13.86	14.10	1.22	MP3	
RAYCAP DC SQUID	107.0	2	44.38	0.92	0.92	36.61	36.61	32.00	2.76	M1	

## Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N1	N2			HSS 4"x4"x1/4"	Beam	Tube	A53 Gr.B	Typical
2	M2	N4	N3			Connector Plate	Beam	RECT	A36 Gr.36	Typical
3	M3	N6	N9			HSS 4"x4"x1/4"	Beam	Tube	A53 Gr.B	Typical
4	M4	N11	N10A			Connector Plate	Beam	RECT	A36 Gr.36	Typical
5	M5	N7	N16			HSS 4"x4"x1/4"	Beam	Tube	A53 Gr.B	Typical
6	M6	N18	N17			Connector Plate	Beam	RECT	A36 Gr.36	Typical
7	M7	N16A	N15			3" STD Pipe	Beam	Pipe	A53 Gr.B	Typical
8	MP1	N100	N101			2" STD Pipe	Beam	Pipe	A53 Gr.B	Typical
9	MP2	N102	N103			2" STD Pipe	Beam	Pipe	A53 Gr.B	Typical
10	MP3	N104	N105			2" STD Pipe	Beam	Pipe	A53 Gr.B	Typical
11	M11	N28	N27			3" STD Pipe	Beam	Pipe	A53 Gr.B	Typical
12	M15	N40	N39			3" STD Pipe	Beam	Pipe	A53 Gr.B	Typical
13	M19	N51	N50			HSS 4"x4"x1/4"	Beam	Tube	A53 Gr.B	Typical
14	M20	N54	N53			HSS 4"x4"x1/4"	Beam	Tube	A53 Gr.B	Typical
15	M21	N57	N56			HSS 4"x4"x1/4"	Beam	Tube	A53 Gr.B	Typical
16	M22	N56A	N57A			L2"x2"x1/8"	Beam	Single Angle	A36 Gr.36	Typical
17	M23	N58	N59		270	L2"x2"x1/8"	Beam	Single Angle	A36 Gr.36	Typical
18	M24	N61	N62			L2"x2"x1/8"	Beam	Single Angle	A36 Gr.36	Typical
19	M25	N63	N64		270	L2"x2"x1/8"	Beam	Single Angle	A36 Gr.36	Typical
20	M26	N66	N67			L2"x2"x1/8"	Beam	Single Angle	A36 Gr.36	Typical
21	M27	N68	N69		270	L2"x2"x1/8"	Beam	Single Angle	A36 Gr.36	Typical
22	MP7	N59A	N56B			2" STD Pipe	Beam	Pipe	A53 Gr.B	Typical
23	MP8	N57B	N54A			2" STD Pipe	Beam	Pipe	A53 Gr.B	Typical
24	MP9	N58A	N55			2" STD Pipe	Beam	Pipe	A53 Gr.B	Typical
25	MP4	N69A	N66A			2" STD Pipe	Beam	Pipe	A53 Gr.B	Typical
26	MP5	N67A	N64A			2" STD Pipe	Beam	Pipe	A53 Gr.B	Typical
27	MP6	N68A	N65			2" STD Pipe	Beam	Pipe	A53 Gr.B	Typical

## Material Takeoff

	Material	Size	Pieces	Length[in]	Weight[K]
1	Hot Rolled Steel				
2	A36 Gr.36	6"x0.37" Plate	3	36	.023
3	A36 Gr.36	L2x2x2	6	317.4	.044
4	A53 Gr.B	HSS4X4X4	6	428.1	.409
5	A53 Gr.B	PIPE 2.0	9	864	.25
6	A53 Gr.B	PIPE_3.0	3	522	.306
7	Total HR Steel		27	2167.6	1.032

## Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me... Surface(...
1	Self Weight	DL		-1			35	
2	Wind Load AZI 0	WLZ					70	
3	Wind Load AZI 30	None					70	
4	Wind Load AZI 60	None					70	
5	Wind Load AZI 90	WLX					70	
6	Wind Load AZI 120	None					70	
7	Wind Load AZI 150	None					70	
8	Wind Load AZI 180	None					70	
9	Wind Load AZI 210	None					70	
10	Wind Load AZI 240	None					70	
11	Wind Load AZI 270	None					70	
12	Wind Load AZI 300	None					70	
13	Wind Load AZI 330	None					70	

## Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me... Surface(...		
14	Distr. Wind Load Z	WLZ						27		
15	Distr. Wind Load X	WLX						27		
16	Ice Weight	OL1					35	27		
17	Ice Wind Load AZI 0	OL2					70			
18	Ice Wind Load AZI 30	None					70			
19	Ice Wind Load AZI 60	None					70			
20	Ice Wind Load AZI 90	OL3					70			
21	Ice Wind Load AZI 120	None					70			
22	Ice Wind Load AZI 150	None					70			
23	Ice Wind Load AZI 180	None					70			
24	Ice Wind Load AZI 210	None					70			
25	Ice Wind Load AZI 240	None					70			
26	Ice Wind Load AZI 270	None					70			
27	Ice Wind Load AZI 300	None					70			
28	Ice Wind Load AZI 330	None					70			
29	Distr. Ice Wind Load Z	OL2						27		
30	Distr. Ice Wind Load X	OL3						27		
31	Seismic Load Z	ELZ			-0.086		35			
32	Seismic Load X	ELX	-0.086				35			
33	Service Live Loads	LL								
34	Maintenance Load 1	LL				1				
35	Maintenance Load 2	LL				1				
36	Maintenance Load 3	LL				1				
37	Maintenance Load 4	LL				1				
38	Maintenance Load 5	LL				1				
39	Maintenance Load 6	LL				1				
40	Maintenance Load 7	LL				1				
41	Maintenance Load 8	LL				1				
42	Maintenance Load 9	LL				1				

## Load Combinations

	Description	Solve	PDelta	S...	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
1	1.4DL	Yes	Y		1	1.4												
2	1.2DL + 1WL AZI 0	Yes	Y		1	1.2	2	1	14	1	15							
3	1.2DL + 1WL AZI 30	Yes	Y		1	1.2	3	1	14	.866	15	.5						
4	1.2DL + 1WL AZI 60	Yes	Y		1	1.2	4	1	14	.5	15	.866						
5	1.2DL + 1WL AZI 90	Yes	Y		1	1.2	5	1	14		15	1						
6	1.2DL + 1WL AZI 120	Yes	Y		1	1.2	6	1	14	-.5	15	.866						
7	1.2DL + 1WL AZI 150	Yes	Y		1	1.2	7	1	14	-.866	15	.5						
8	1.2DL + 1WL AZI 180	Yes	Y		1	1.2	8	1	14	-1	15							
9	1.2DL + 1WL AZI 210	Yes	Y		1	1.2	9	1	14	-.866	15	-.5						
10	1.2DL + 1WL AZI 240	Yes	Y		1	1.2	10	1	14	-.5	15	-.866						
11	1.2DL + 1WL AZI 270	Yes	Y		1	1.2	11	1	14		15	-1						
12	1.2DL + 1WL AZI 300	Yes	Y		1	1.2	12	1	14	.5	15	-.866						
13	1.2DL + 1WL AZI 330	Yes	Y		1	1.2	13	1	14	.866	15	-.5						
14	0.9DL + 1WL AZI 0	Yes	Y		1	.9	2	1	14	1	15							
15	0.9DL + 1WL AZI 30	Yes	Y		1	.9	3	1	14	.866	15	.5						
16	0.9DL + 1WL AZI 60	Yes	Y		1	.9	4	1	14	.5	15	.866						
17	0.9DL + 1WL AZI 90	Yes	Y		1	.9	5	1	14		15	1						
18	0.9DL + 1WL AZI 120	Yes	Y		1	.9	6	1	14	-.5	15	.866						
19	0.9DL + 1WL AZI 150	Yes	Y		1	.9	7	1	14	-.866	15	.5						
20	0.9DL + 1WL AZI 180	Yes	Y		1	.9	8	1	14	-1	15							
21	0.9DL + 1WL AZI 210	Yes	Y		1	.9	9	1	14	-.866	15	-.5						
22	0.9DL + 1WL AZI 240	Yes	Y		1	.9	10	1	14	-.5	15	-.866						
23	0.9DL + 1WL AZI 270	Yes	Y		1	.9	11	1	14		15	-1						

## Load Combinations (Continued)

	Description	Solve	PDelta	S...	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC
24	0.9DL + 1WL AZI 300	Yes	Y		1	.9	12	1	14	.5	15	-8...							
25	0.9DL + 1WL AZI 330	Yes	Y		1	.9	13	1	14	.866	15	-5							
26	1.2D + 1.0Di	Yes	Y		1	1.2	16	1											
27	1.2D + 1.0Di + 1.0Wi AZI 0	Yes	Y		1	1.2	16	1	17	1	29	1 ...							
28	1.2D + 1.0Di + 1.0Wi AZI 30	Yes	Y		1	1.2	16	1	18	1	29	866...5							
29	1.2D + 1.0Di + 1.0Wi AZI 60	Yes	Y		1	1.2	16	1	19	1	29	.5 ...							
30	1.2D + 1.0Di + 1.0Wi AZI 90	Yes	Y		1	1.2	16	1	20	1	29	...1							
31	1.2D + 1.0Di + 1.0Wi AZI 1...	Yes	Y		1	1.2	16	1	21	1	29	-.5 ...							
32	1.2D + 1.0Di + 1.0Wi AZI 1...	Yes	Y		1	1.2	16	1	22	1	29	-8...5							
33	1.2D + 1.0Di + 1.0Wi AZI 1...	Yes	Y		1	1.2	16	1	23	1	29	-1 ...							
34	1.2D + 1.0Di + 1.0Wi AZI 2...	Yes	Y		1	1.2	16	1	24	1	29	-8...-							
35	1.2D + 1.0Di + 1.0Wi AZI 2...	Yes	Y		1	1.2	16	1	25	1	29	-.5 ...-							
36	1.2D + 1.0Di + 1.0Wi AZI 2...	Yes	Y		1	1.2	16	1	26	1	29	...-1							
37	1.2D + 1.0Di + 1.0Wi AZI 3...	Yes	Y		1	1.2	16	1	27	1	29	.5 ...-							
38	1.2D + 1.0Di + 1.0Wi AZI 3...	Yes	Y		1	1.2	16	1	28	1	29	866...-							
39	(1.2 + 0.2Sds)DL + 1.0E A...	Yes	Y		1	1.235	31	1	32										
40	(1.2 + 0.2Sds)DL + 1.0E A...	Yes	Y		1	1.235	31	.866	32	.5									
41	(1.2 + 0.2Sds)DL + 1.0E A...	Yes	Y		1	1.235	31	.5	32	.866									
42	(1.2 + 0.2Sds)DL + 1.0E A...	Yes	Y		1	1.235	31		32	1									
43	(1.2 + 0.2Sds)DL + 1.0E A...	Yes	Y		1	1.235	31	-.5	32	.866									
44	(1.2 + 0.2Sds)DL + 1.0E A...	Yes	Y		1	1.235	31	-.866	32	.5									
45	(1.2 + 0.2Sds)DL + 1.0E A...	Yes	Y		1	1.235	31	-1	32										
46	(1.2 + 0.2Sds)DL + 1.0E A...	Yes	Y		1	1.235	31	-.866	32	-.5									
47	(1.2 + 0.2Sds)DL + 1.0E A...	Yes	Y		1	1.235	31	-.5	32	-.866									
48	(1.2 + 0.2Sds)DL + 1.0E A...	Yes	Y		1	1.235	31		32	-1									
49	(1.2 + 0.2Sds)DL + 1.0E A...	Yes	Y		1	1.235	31	.5	32	-.866									
50	(1.2 + 0.2Sds)DL + 1.0E A...	Yes	Y		1	1.235	31	.866	32	-.5									
51	(0.9 - 0.2Sds)DL + 1.0E A...	Yes	Y		1	.865	31	1	32										
52	(0.9 - 0.2Sds)DL + 1.0E A...	Yes	Y		1	.865	31	.866	32	.5									
53	(0.9 - 0.2Sds)DL + 1.0E A...	Yes	Y		1	.865	31	.5	32	.866									
54	(0.9 - 0.2Sds)DL + 1.0E A...	Yes	Y		1	.865	31		32	1									
55	(0.9 - 0.2Sds)DL + 1.0E A...	Yes	Y		1	.865	31	-.5	32	.866									
56	(0.9 - 0.2Sds)DL + 1.0E A...	Yes	Y		1	.865	31	-.866	32	.5									
57	(0.9 - 0.2Sds)DL + 1.0E A...	Yes	Y		1	.865	31	-1	32										
58	(0.9 - 0.2Sds)DL + 1.0E A...	Yes	Y		1	.865	31	-.866	32	-.5									
59	(0.9 - 0.2Sds)DL + 1.0E A...	Yes	Y		1	.865	31	-.5	32	-.866									
60	(0.9 - 0.2Sds)DL + 1.0E A...	Yes	Y		1	.865	31		32	-1									
61	(0.9 - 0.2Sds)DL + 1.0E A...	Yes	Y		1	.865	31	.5	32	-.866									
62	(0.9 - 0.2Sds)DL + 1.0E A...	Yes	Y		1	.865	31	.866	32	-.5									
63	1.0DL + 1.5LL + 1.0SWL (...)	Yes	Y		1	1	2	.198	14	.198	15	...							
64	1.0DL + 1.5LL + 1.0SWL (...)	Yes	Y		1	1	3	.198	14	.171	15	.099...							
65	1.0DL + 1.5LL + 1.0SWL (...)	Yes	Y		1	1	4	.198	14	.099	15	.171...							
66	1.0DL + 1.5LL + 1.0SWL (...)	Yes	Y		1	1	5	.198	14		15	.198...							
67	1.0DL + 1.5LL + 1.0SWL (...)	Yes	Y		1	1	6	.198	14	-.099	15	.171...							
68	1.0DL + 1.5LL + 1.0SWL (...)	Yes	Y		1	1	7	.198	14	-.171	15	.099...							
69	1.0DL + 1.5LL + 1.0SWL (...)	Yes	Y		1	1	8	.198	14	-.198	15	...							
70	1.0DL + 1.5LL + 1.0SWL (...)	Yes	Y		1	1	9	.198	14	-.171	15	-.0...							
71	1.0DL + 1.5LL + 1.0SWL (...)	Yes	Y		1	1	10	.198	14	-.099	15	-.1...							
72	1.0DL + 1.5LL + 1.0SWL (...)	Yes	Y		1	1	11	.198	14		15	-.1...							
73	1.0DL + 1.5LL + 1.0SWL (...)	Yes	Y		1	1	12	.198	14	.099	15	-.1...							
74	1.0DL + 1.5LL + 1.0SWL (...)	Yes	Y		1	1	13	.198	14	.171	15	-.0...							
75	1.2DL + 1.5LL	Yes	Y		1	1.2	33	1.5											
76	1.2DL + 1.5LM-MP1 + 1S...	Yes	Y		1	1.2	34	1.5	2	.049	14	.049...							
77	1.2DL + 1.5LM-MP1 + 1S...	Yes	Y		1	1.2	34	1.5	3	.049	14	.043...							
78	1.2DL + 1.5LM-MP1 + 1S...	Yes	Y		1	1.2	34	1.5	4	.049	14	.025...							
79	1.2DL + 1.5LM-MP1 + 1S...	Yes	Y		1	1.2	34	1.5	5	.049	14	...							
80	1.2DL + 1.5LM-MP1 + 1S...	Yes	Y		1	1.2	34	1.5	6	.049	14	-.0...							



## Load Combinations (Continued)

	Description	Solve	PDelta	S...	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Fa.....
81	1.2DL + 1.5LM-MP1 + 1S...	Yes	Y		1	1.2	34	1.5	7	.049	14	-0.0	.....	
82	1.2DL + 1.5LM-MP1 + 1S...	Yes	Y		1	1.2	34	1.5	8	.049	14	-0.0	.....	
83	1.2DL + 1.5LM-MP1 + 1S...	Yes	Y		1	1.2	34	1.5	9	.049	14	-0.0	.....	
84	1.2DL + 1.5LM-MP1 + 1S...	Yes	Y		1	1.2	34	1.5	10	.049	14	-0.0	.....	
85	1.2DL + 1.5LM-MP1 + 1S...	Yes	Y		1	1.2	34	1.5	11	.049	14	-0.0	.....	
86	1.2DL + 1.5LM-MP1 + 1S...	Yes	Y		1	1.2	34	1.5	12	.049	14	.025	.....	
87	1.2DL + 1.5LM-MP1 + 1S...	Yes	Y		1	1.2	34	1.5	13	.049	14	.043	.....	
88	1.2DL + 1.5LM-MP2 + 1S...	Yes	Y		1	1.2	35	1.5	2	.049	14	.049	.....	
89	1.2DL + 1.5LM-MP2 + 1S...	Yes	Y		1	1.2	35	1.5	3	.049	14	.043	.....	
90	1.2DL + 1.5LM-MP2 + 1S...	Yes	Y		1	1.2	35	1.5	4	.049	14	.025	.....	
91	1.2DL + 1.5LM-MP2 + 1S...	Yes	Y		1	1.2	35	1.5	5	.049	14	-0.0	.....	
92	1.2DL + 1.5LM-MP2 + 1S...	Yes	Y		1	1.2	35	1.5	6	.049	14	-0.0	.....	
93	1.2DL + 1.5LM-MP2 + 1S...	Yes	Y		1	1.2	35	1.5	7	.049	14	-0.0	.....	
94	1.2DL + 1.5LM-MP2 + 1S...	Yes	Y		1	1.2	35	1.5	8	.049	14	-0.0	.....	
95	1.2DL + 1.5LM-MP2 + 1S...	Yes	Y		1	1.2	35	1.5	9	.049	14	-0.0	.....	
96	1.2DL + 1.5LM-MP2 + 1S...	Yes	Y		1	1.2	35	1.5	10	.049	14	-0.0	.....	
97	1.2DL + 1.5LM-MP2 + 1S...	Yes	Y		1	1.2	35	1.5	11	.049	14	-0.0	.....	
98	1.2DL + 1.5LM-MP2 + 1S...	Yes	Y		1	1.2	35	1.5	12	.049	14	.025	.....	
99	1.2DL + 1.5LM-MP2 + 1S...	Yes	Y		1	1.2	35	1.5	13	.049	14	.043	.....	
100	1.2DL + 1.5LM-MP3 + 1S...	Yes	Y		1	1.2	36	1.5	2	.049	14	.049	.....	
101	1.2DL + 1.5LM-MP3 + 1S...	Yes	Y		1	1.2	36	1.5	3	.049	14	.043	.....	
102	1.2DL + 1.5LM-MP3 + 1S...	Yes	Y		1	1.2	36	1.5	4	.049	14	.025	.....	
103	1.2DL + 1.5LM-MP3 + 1S...	Yes	Y		1	1.2	36	1.5	5	.049	14	-0.0	.....	
104	1.2DL + 1.5LM-MP3 + 1S...	Yes	Y		1	1.2	36	1.5	6	.049	14	-0.0	.....	
105	1.2DL + 1.5LM-MP3 + 1S...	Yes	Y		1	1.2	36	1.5	7	.049	14	-0.0	.....	
106	1.2DL + 1.5LM-MP3 + 1S...	Yes	Y		1	1.2	36	1.5	8	.049	14	-0.0	.....	
107	1.2DL + 1.5LM-MP3 + 1S...	Yes	Y		1	1.2	36	1.5	9	.049	14	-0.0	.....	
108	1.2DL + 1.5LM-MP3 + 1S...	Yes	Y		1	1.2	36	1.5	10	.049	14	-0.0	.....	
109	1.2DL + 1.5LM-MP3 + 1S...	Yes	Y		1	1.2	36	1.5	11	.049	14	-0.0	.....	
110	1.2DL + 1.5LM-MP3 + 1S...	Yes	Y		1	1.2	36	1.5	12	.049	14	.025	.....	
111	1.2DL + 1.5LM-MP3 + 1S...	Yes	Y		1	1.2	36	1.5	13	.049	14	.043	.....	
112	1.2DL + 1.5LM-MP4 + 1S...	Yes	Y		1	1.2	37	1.5	2	.049	14	.049	.....	
113	1.2DL + 1.5LM-MP4 + 1S...	Yes	Y		1	1.2	37	1.5	3	.049	14	.043	.....	
114	1.2DL + 1.5LM-MP4 + 1S...	Yes	Y		1	1.2	37	1.5	4	.049	14	.025	.....	
115	1.2DL + 1.5LM-MP4 + 1S...	Yes	Y		1	1.2	37	1.5	5	.049	14	-0.0	.....	
116	1.2DL + 1.5LM-MP4 + 1S...	Yes	Y		1	1.2	37	1.5	6	.049	14	-0.0	.....	
117	1.2DL + 1.5LM-MP4 + 1S...	Yes	Y		1	1.2	37	1.5	7	.049	14	-0.0	.....	
118	1.2DL + 1.5LM-MP4 + 1S...	Yes	Y		1	1.2	37	1.5	8	.049	14	-0.0	.....	
119	1.2DL + 1.5LM-MP4 + 1S...	Yes	Y		1	1.2	37	1.5	9	.049	14	-0.0	.....	
120	1.2DL + 1.5LM-MP4 + 1S...	Yes	Y		1	1.2	37	1.5	10	.049	14	-0.0	.....	
121	1.2DL + 1.5LM-MP4 + 1S...	Yes	Y		1	1.2	37	1.5	11	.049	14	-0.0	.....	
122	1.2DL + 1.5LM-MP4 + 1S...	Yes	Y		1	1.2	37	1.5	12	.049	14	.025	.....	
123	1.2DL + 1.5LM-MP4 + 1S...	Yes	Y		1	1.2	37	1.5	13	.049	14	.043	.....	
124	1.2DL + 1.5LM-MP5 + 1S...	Yes	Y		1	1.2	38	1.5	2	.049	14	.049	.....	
125	1.2DL + 1.5LM-MP5 + 1S...	Yes	Y		1	1.2	38	1.5	3	.049	14	.043	.....	
126	1.2DL + 1.5LM-MP5 + 1S...	Yes	Y		1	1.2	38	1.5	4	.049	14	.025	.....	
127	1.2DL + 1.5LM-MP5 + 1S...	Yes	Y		1	1.2	38	1.5	5	.049	14	-0.0	.....	
128	1.2DL + 1.5LM-MP5 + 1S...	Yes	Y		1	1.2	38	1.5	6	.049	14	-0.0	.....	
129	1.2DL + 1.5LM-MP5 + 1S...	Yes	Y		1	1.2	38	1.5	7	.049	14	-0.0	.....	
130	1.2DL + 1.5LM-MP5 + 1S...	Yes	Y		1	1.2	38	1.5	8	.049	14	-0.0	.....	
131	1.2DL + 1.5LM-MP5 + 1S...	Yes	Y		1	1.2	38	1.5	9	.049	14	-0.0	.....	
132	1.2DL + 1.5LM-MP5 + 1S...	Yes	Y		1	1.2	38	1.5	10	.049	14	-0.0	.....	
133	1.2DL + 1.5LM-MP5 + 1S...	Yes	Y		1	1.2	38	1.5	11	.049	14	-0.0	.....	
134	1.2DL + 1.5LM-MP5 + 1S...	Yes	Y		1	1.2	38	1.5	12	.049	14	.025	.....	
135	1.2DL + 1.5LM-MP5 + 1S...	Yes	Y		1	1.2	38	1.5	13	.049	14	.043	.....	
136	1.2DL + 1.5LM-MP6 + 1S...	Yes	Y		1	1.2	39	1.5	2	.049	14	.049	.....	
137	1.2DL + 1.5LM-MP6 + 1S...	Yes	Y		1	1.2	39	1.5	3	.049	14	.043	.....	

## Load Combinations (Continued)

	Description	Solve	PDelta	S...	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC
138	1.2DL + 1.5LM-MP6 + 1S...	Yes	Y		1	1.2	39	1.5	4	.049	14	.025					
139	1.2DL + 1.5LM-MP6 + 1S...	Yes	Y		1	1.2	39	1.5	5	.049	14						
140	1.2DL + 1.5LM-MP6 + 1S...	Yes	Y		1	1.2	39	1.5	6	.049	14	-0.					
141	1.2DL + 1.5LM-MP6 + 1S...	Yes	Y		1	1.2	39	1.5	7	.049	14	-0.					
142	1.2DL + 1.5LM-MP6 + 1S...	Yes	Y		1	1.2	39	1.5	8	.049	14	-0.					
143	1.2DL + 1.5LM-MP6 + 1S...	Yes	Y		1	1.2	39	1.5	9	.049	14	-0.					
144	1.2DL + 1.5LM-MP6 + 1S...	Yes	Y		1	1.2	39	1.5	10	.049	14	-0.					
145	1.2DL + 1.5LM-MP6 + 1S...	Yes	Y		1	1.2	39	1.5	11	.049	14						
146	1.2DL + 1.5LM-MP6 + 1S...	Yes	Y		1	1.2	39	1.5	12	.049	14	.025					
147	1.2DL + 1.5LM-MP6 + 1S...	Yes	Y		1	1.2	39	1.5	13	.049	14	.043					
148	1.2DL + 1.5LM-MP7 + 1S...	Yes	Y		1	1.2	40	1.5	2	.049	14	.049					
149	1.2DL + 1.5LM-MP7 + 1S...	Yes	Y		1	1.2	40	1.5	3	.049	14	.043					
150	1.2DL + 1.5LM-MP7 + 1S...	Yes	Y		1	1.2	40	1.5	4	.049	14	.025					
151	1.2DL + 1.5LM-MP7 + 1S...	Yes	Y		1	1.2	40	1.5	5	.049	14						
152	1.2DL + 1.5LM-MP7 + 1S...	Yes	Y		1	1.2	40	1.5	6	.049	14	-0.					
153	1.2DL + 1.5LM-MP7 + 1S...	Yes	Y		1	1.2	40	1.5	7	.049	14	-0.					
154	1.2DL + 1.5LM-MP7 + 1S...	Yes	Y		1	1.2	40	1.5	8	.049	14	-0.					
155	1.2DL + 1.5LM-MP7 + 1S...	Yes	Y		1	1.2	40	1.5	9	.049	14	-0.					
156	1.2DL + 1.5LM-MP7 + 1S...	Yes	Y		1	1.2	40	1.5	10	.049	14	-0.					
157	1.2DL + 1.5LM-MP7 + 1S...	Yes	Y		1	1.2	40	1.5	11	.049	14						
158	1.2DL + 1.5LM-MP7 + 1S...	Yes	Y		1	1.2	40	1.5	12	.049	14	.025					
159	1.2DL + 1.5LM-MP7 + 1S...	Yes	Y		1	1.2	40	1.5	13	.049	14	.043					
160	1.2DL + 1.5LM-MP8 + 1S...	Yes	Y		1	1.2	41	1.5	2	.049	14	.049					
161	1.2DL + 1.5LM-MP8 + 1S...	Yes	Y		1	1.2	41	1.5	3	.049	14	.043					
162	1.2DL + 1.5LM-MP8 + 1S...	Yes	Y		1	1.2	41	1.5	4	.049	14	.025					
163	1.2DL + 1.5LM-MP8 + 1S...	Yes	Y		1	1.2	41	1.5	5	.049	14						
164	1.2DL + 1.5LM-MP8 + 1S...	Yes	Y		1	1.2	41	1.5	6	.049	14	-0.					
165	1.2DL + 1.5LM-MP8 + 1S...	Yes	Y		1	1.2	41	1.5	7	.049	14	-0.					
166	1.2DL + 1.5LM-MP8 + 1S...	Yes	Y		1	1.2	41	1.5	8	.049	14	-0.					
167	1.2DL + 1.5LM-MP8 + 1S...	Yes	Y		1	1.2	41	1.5	9	.049	14	-0.					
168	1.2DL + 1.5LM-MP8 + 1S...	Yes	Y		1	1.2	41	1.5	10	.049	14	-0.					
169	1.2DL + 1.5LM-MP8 + 1S...	Yes	Y		1	1.2	41	1.5	11	.049	14						
170	1.2DL + 1.5LM-MP8 + 1S...	Yes	Y		1	1.2	41	1.5	12	.049	14	.025					
171	1.2DL + 1.5LM-MP8 + 1S...	Yes	Y		1	1.2	41	1.5	13	.049	14	.043					
172	1.2DL + 1.5LM-MP9 + 1S...	Yes	Y		1	1.2	42	1.5	2	.049	14	.049					
173	1.2DL + 1.5LM-MP9 + 1S...	Yes	Y		1	1.2	42	1.5	3	.049	14	.043					
174	1.2DL + 1.5LM-MP9 + 1S...	Yes	Y		1	1.2	42	1.5	4	.049	14	.025					
175	1.2DL + 1.5LM-MP9 + 1S...	Yes	Y		1	1.2	42	1.5	5	.049	14						
176	1.2DL + 1.5LM-MP9 + 1S...	Yes	Y		1	1.2	42	1.5	6	.049	14	-0.					
177	1.2DL + 1.5LM-MP9 + 1S...	Yes	Y		1	1.2	42	1.5	7	.049	14	-0.					
178	1.2DL + 1.5LM-MP9 + 1S...	Yes	Y		1	1.2	42	1.5	8	.049	14	-0.					
179	1.2DL + 1.5LM-MP9 + 1S...	Yes	Y		1	1.2	42	1.5	9	.049	14	-0.					
180	1.2DL + 1.5LM-MP9 + 1S...	Yes	Y		1	1.2	42	1.5	10	.049	14	-0.					
181	1.2DL + 1.5LM-MP9 + 1S...	Yes	Y		1	1.2	42	1.5	11	.049	14						
182	1.2DL + 1.5LM-MP9 + 1S...	Yes	Y		1	1.2	42	1.5	12	.049	14	.025					

## Envelope Joint Reactions

Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC	
1	N1	max	2372.408	16	2522.339	35	2148.838	14	-813.275	15	2709.222	19	6407.587	35
		min	-2391.269	10	626.405	16	-2160.257	8	-4131.261	34	-2709.562	25	1372.616	17
3	N6	max	1683.234	17	2410.437	27	2918.946	2	7504.884	27	2877.486	23	1042.024	134
		min	-1684.016	23	593.326	20	-2896.928	20	1590.219	20	-2877.413	17	-487.558	164
5	N7	max	2511.71	5	2522.153	31	1680.365	14	-709.181	25	2892.013	15	-1467.046	23
		min	-2493.882	23	629.833	24	-1691.112	8	-3576.182	105	-2891.595	21	-6776.401	31
7	Totals:	max	6328.161	17	7417.305	38	6745.18	14						

## Envelope Joint Reactions (Continued)

Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
8	min -6328.161	11	2135.066	51	-6745.18	8						

## Envelope AISC 15th(360-16): LRFD Steel Code Checks

Member	Shape	Code Check	Loc[in]	LC	Shear	Loc[in]	Dir	LC	phi*Pnc...	phi*Pnt...	phi*Mn...	phi*Mn...	Cb	Eqn
1	MP2	PIPE 2.0	.811	48	8	.056	48	8	14916.0...	32130	1871.625	1871.625	1...	H1-1b
2	MP8	PIPE 2.0	.811	48	12	.056	48	12	14916.0...	32130	1871.625	1871.625	1...	H1-1b
3	MP5	PIPE 2.0	.799	48	4	.055	48	4	14916.0...	32130	1871.625	1871.625	1...	H1-1b
4	MP1	PIPE 2.0	.748	48	8	.049	48	8	14916.0...	32130	1871.625	1871.625	1...	H1-1b
5	MP7	PIPE 2.0	.748	48	12	.049	48	12	14916.0...	32130	1871.625	1871.625	1...	H1-1b
6	MP4	PIPE 2.0	.737	48	4	.049	48	4	14916.0...	32130	1871.625	1871.625	1...	H1-1b
7	M1	HSS4X4X4	.638	0	33	.154	0	y 94	101302...	106155	12311.25	12311.25	1	H1-1b
8	M5	HSS4X4X4	.637	0	28	.154	0	y 162	101302...	106155	12311.25	12311.25	1	H1-1b
9	M3	HSS4X4X4	.633	0	36	.152	0	y 134	101302...	106155	12311.25	12311.25	1	H1-1b
10	M24	L2x2x2	.426	52.901	9	.020	52.9...	z 8	10404.9...	15908.4	402.563	760.515	1...	H2-1
11	M2	6"x0.37" Plate	.397	6	9	.259	12	y 12	37008.8...	71928	554.445	8991	1...	H1-1b
12	M26	L2x2x2	.397	52.901	25	.017	52.9...	z 12	10404.9...	15908.4	402.563	766.866	2...	H2-1
13	M4	6"x0.37" Plate	.396	6	13	.256	12	y 4	37008.8...	71928	554.445	8991	1...	H1-1b
14	M22	L2x2x2	.395	52.901	17	.017	52.9...	z 4	10404.9...	15908.4	402.563	761.834	1...	H2-1
15	M23	L2x2x2	.357	52.901	7	.019	52.9...	y 8	10404.9...	15908.4	402.563	758.174	1...	H2-1
16	M6	6"x0.37" Plate	.350	5.875	5	.260	12	y 8	37008.8...	71928	554.445	8991	2...	H1-1b
17	M25	L2x2x2	.342	52.901	23	.016	52.9...	y 12	10404.9...	15908.4	402.563	761.936	1...	H2-1
18	M27	L2x2x2	.340	52.901	15	.016	52.9...	y 4	10404.9...	15908.4	402.563	766.607	2...	H2-1
19	MP3	PIPE 2.0	.302	48	8	.025	48	8	14916.0...	32130	1871.625	1871.625	1...	H1-1b
20	MP9	PIPE 2.0	.302	48	12	.025	48	12	14916.0...	32130	1871.625	1871.625	1...	H1-1b
21	MP6	PIPE 2.0	.298	48	4	.025	48	4	14916.0...	32130	1871.625	1871.625	1...	H1-1b
22	M7	PIPE 3.0	.264	56.188	28	.087	54.3...	8	55995.4...	65205	5748.75	5748.75	1	H1-1b
23	M11	PIPE 3.0	.264	56.188	32	.086	54.3...	12	55995.4...	65205	5748.75	5748.75	1	H1-1b
24	M15	PIPE 3.0	.264	56.188	36	.086	54.3...	4	55995.4...	65205	5748.75	5748.75	1	H1-1b
25	M20	HSS4X4X4	.229	32.451	33	.110	3.38	z 8	104265...	106155	12311.25	12311.25	1	H1-1b
26	M21	HSS4X4X4	.228	32.451	38	.107	3.38	z 12	104265...	106155	12311.25	12311.25	1	H1-1b
27	M19	HSS4X4X4	.224	31.775	29	.110	61.5...	z 2	104265...	106155	12311.25	12311.25	1	H1-1b

## Hot Rolled Steel Section Sets

Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]	
1	HSS 4"x4"x1/4"	HSS4X4X4	Beam	Tube	A53 Gr.B	Typical	3.37	7.8	7.8	12.8
2	3" STD Pipe	PIPE 3.0	Beam	Pipe	A53 Gr.B	Typical	2.07	2.85	2.85	5.69
3	L2"x2"x1/8"	L2x2x2	Beam	Single Angle	A36 Gr.36	Typical	.491	.189	.189	.003
4	2" STD Pipe	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
5	Connector Plate	6"x0.37" Plate	Beam	RECT	A36 Gr.36	Typical	2.22	.025	6.66	.097

## Joint Boundary Conditions

Joint Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot.[k-ft/rad]	Y Rot.[k-ft/rad]	Z Rot.[k-ft/rad]
1	N1	Reaction	Reaction	Reaction	Reaction	Reaction
2	N6	Reaction	Reaction	Reaction	Reaction	Reaction
3	N7	Reaction	Reaction	Reaction	Reaction	Reaction

## Member Advanced Data

Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1					Yes				None
2	M2	BenPIN	BenPIN			Yes				None
3	M3					Yes				None

## Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
4	M4	BenPIN	BenPIN				Yes				None
5	M5						Yes				None
6	M6	BenPIN	BenPIN				Yes				None
7	M7						Yes				None
8	MP1						Yes				None
9	MP2						Yes				None
10	MP3						Yes				None
11	M11						Yes				None
12	M15						Yes				None
13	M19	BenPIN	BenPIN				Yes				None
14	M20	BenPIN	BenPIN				Yes				None
15	M21	BenPIN	BenPIN				Yes				None
16	M22						Yes				None
17	M23						Yes				None
18	M24						Yes				None
19	M25						Yes				None
20	M26						Yes				None
21	M27						Yes				None
22	MP7						Yes				None
23	MP8						Yes				None
24	MP9						Yes				None
25	MP4						Yes				None
26	MP5						Yes				None
27	MP6						Yes				None

## Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/...	Density[k/ft^3]	Yield[psi]	Ry	Fu[psi]	Rt
1	A992	29000	11154	.3	.65	.49	50000	1.1	65000	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36000	1.5	58000	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50000	1.1	65000	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	.527	42000	1.4	58000	1.3
5	A500 Gr.B Rect	29000	11154	.3	.65	.527	46000	1.4	58000	1.3
6	A53 Gr.B	29000	11154	.3	.65	.49	35000	1.6	60000	1.2
7	A1085	29000	11154	.3	.65	.49	50000	1.4	65000	1.3

## Joint Loads and Enforced Displacements (BLC 34 : Maintenance Load 1)

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2...
1	N18A	L	Y	-500

## Joint Loads and Enforced Displacements (BLC 35 : Maintenance Load 2)

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2...
1	N14	L	Y	-500

## Joint Loads and Enforced Displacements (BLC 36 : Maintenance Load 3)

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2...
1	N17A	L	Y	-500

## Joint Loads and Enforced Displacements (BLC 37 : Maintenance Load 4)

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2...
1	N53A	L	Y	-500

**Joint Loads and Enforced Displacements (BLC 38 : Maintenance Load 5)**

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2...
1	N51A	L	Y	-500

**Joint Loads and Enforced Displacements (BLC 39 : Maintenance Load 6)**

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2...
1	N52	L	Y	-500

**Joint Loads and Enforced Displacements (BLC 40 : Maintenance Load 7)**

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2...
1	N63A	L	Y	-500

**Joint Loads and Enforced Displacements (BLC 41 : Maintenance Load 8)**

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2...
1	N61A	L	Y	-500

**Joint Loads and Enforced Displacements (BLC 42 : Maintenance Load 9)**

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2...
1	N62A	L	Y	-500

**Member Point Loads (BLC 1 : Self Weight)**

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Y	-47.85	90
2	MP1	Y	-47.85	6
3	MP2	Y	-47.85	90
4	MP2	Y	-47.85	6
5	MP3	Y	-17.5	90
6	MP3	Y	-17.5	40
7	MP2	Y	-59.9	68
8	MP2	Y	-71.87	60
9	MP1	Y	-70.54	60
10	MP3	Y	-14.1	60
11	MP3	Y	-14.1	60
12	M1	Y	-32	12
13	MP4	Y	-47.85	90
14	MP4	Y	-47.85	6
15	MP5	Y	-47.85	90
16	MP5	Y	-47.85	6
17	MP6	Y	-17.5	90
18	MP6	Y	-17.5	40
19	MP5	Y	-59.9	68
20	MP5	Y	-71.87	60
21	MP4	Y	-70.54	60
22	MP6	Y	-14.1	60
23	MP6	Y	-14.1	60
24	M5	Y	-32	12
25	MP7	Y	-47.85	90
26	MP7	Y	-47.85	6
27	MP8	Y	-47.85	90
28	MP8	Y	-47.85	6
29	MP9	Y	-17.5	90
30	MP9	Y	-17.5	40
31	MP8	Y	-59.9	68
32	MP8	Y	-71.87	60
33	MP7	Y	-70.54	60

### Member Point Loads (BLC 1 : Self Weight) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
34	MP9	Y	-14.1	60
35	MP9	Y	-14.1	60

### Member Point Loads (BLC 2 : Wind Load AZI 0)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	90
2	MP1	Z	-346.73	90
3	MP1	X	0	6
4	MP1	Z	-346.73	6
5	MP2	X	0	90
6	MP2	Z	-346.73	90
7	MP2	X	0	6
8	MP2	Z	-346.73	6
9	MP3	X	0	90
10	MP3	Z	-110	90
11	MP3	X	0	40
12	MP3	Z	-110	40
13	MP2	X	0	68
14	MP2	Z	-73.59	68
15	MP2	X	0	60
16	MP2	Z	-69.56	60
17	MP1	X	0	60
18	MP1	Z	-83.27	60
19	MP3	X	0	60
20	MP3	Z	-44.09	60
21	MP3	X	0	60
22	MP3	Z	-44.09	60
23	M1	X	0	12
24	M1	Z	-36.61	12
25	MP4	X	0	90
26	MP4	Z	-238.44	90
27	MP4	X	0	6
28	MP4	Z	-238.44	6
29	MP5	X	0	90
30	MP5	Z	-238.44	90
31	MP5	X	0	6
32	MP5	Z	-238.44	6
33	MP6	X	0	90
34	MP6	Z	-79.76	90
35	MP6	X	0	40
36	MP6	Z	-79.76	40
37	MP5	X	0	68
38	MP5	Z	-55.22	68
39	MP5	X	0	60
40	MP5	Z	-60.59	60
41	MP4	X	0	60
42	MP4	Z	-67.43	60
43	MP6	X	0	60
44	MP6	Z	-26.35	60
45	MP6	X	0	60
46	MP6	Z	-26.35	60
47	M5	X	0	12
48	M5	Z	-36.61	12
49	MP7	X	0	90
50	MP7	Z	-208.33	90
51	MP7	X	0	6

### Member Point Loads (BLC 2 : Wind Load AZI 0) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
52	MP7	Z	-208.33	6
53	MP8	X	0	90
54	MP8	Z	-208.33	90
55	MP8	X	0	6
56	MP8	Z	-208.33	6
57	MP9	X	0	90
58	MP9	Z	-71.36	90
59	MP9	X	0	40
60	MP9	Z	-71.36	40
61	MP8	X	0	68
62	MP8	Z	-50.11	68
63	MP8	X	0	60
64	MP8	Z	-58.09	60
65	MP7	X	0	60
66	MP7	Z	-63.02	60
67	MP9	X	0	60
68	MP9	Z	-21.42	60
69	MP9	X	0	60
70	MP9	Z	-21.42	60

### Member Point Loads (BLC 3 : Wind Load AZI 30)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	-150.3	90
2	MP1	Z	-260.32	90
3	MP1	X	-150.3	6
4	MP1	Z	-260.32	6
5	MP2	X	-150.3	90
6	MP2	Z	-260.32	90
7	MP2	X	-150.3	6
8	MP2	Z	-260.32	6
9	MP3	X	-48.56	90
10	MP3	Z	-84.11	90
11	MP3	X	-48.56	40
12	MP3	Z	-84.11	40
13	MP2	X	-32.88	68
14	MP2	Z	-56.95	68
15	MP2	X	-32.87	60
16	MP2	Z	-56.93	60
17	MP1	X	-38.26	60
18	MP1	Z	-66.27	60
19	MP3	X	-18.27	60
20	MP3	Z	-31.64	60
21	MP3	X	-18.27	60
22	MP3	Z	-31.64	60
23	M1	X	-18.31	12
24	M1	Z	-31.71	12
25	MP4	X	-162.57	90
26	MP4	Z	-281.58	90
27	MP4	X	-162.57	6
28	MP4	Z	-281.58	6
29	MP5	X	-162.57	90
30	MP5	Z	-281.58	90
31	MP5	X	-162.57	6
32	MP5	Z	-281.58	6
33	MP6	X	-51.99	90
34	MP6	Z	-90.04	90

## Member Point Loads (BLC 3 : Wind Load AZI 30) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
35	MP6	X	-51.99	40
36	MP6	Z	-90.04	40
37	MP5	X	-34.96	68
38	MP5	Z	-60.56	68
39	MP5	X	-33.88	60
40	MP5	Z	-58.69	60
41	MP4	X	-40.06	60
42	MP4	Z	-69.38	60
43	MP6	X	-20.28	60
44	MP6	Z	-35.12	60
45	MP6	X	-20.28	60
46	MP6	Z	-35.12	60
47	M5	X	-18.31	12
48	M5	Z	-31.71	12
49	MP7	X	-81.1	90
50	MP7	Z	-140.46	90
51	MP7	X	-81.1	6
52	MP7	Z	-140.46	6
53	MP8	X	-81.1	90
54	MP8	Z	-140.46	90
55	MP8	X	-81.1	6
56	MP8	Z	-140.46	6
57	MP9	X	-29.24	90
58	MP9	Z	-50.64	90
59	MP9	X	-29.24	40
60	MP9	Z	-50.64	40
61	MP8	X	-21.14	68
62	MP8	Z	-36.62	68
63	MP8	X	-27.14	60
64	MP8	Z	-47	60
65	MP7	X	-28.14	60
66	MP7	Z	-48.73	60
67	MP9	X	-6.93	60
68	MP9	Z	-12.01	60
69	MP9	X	-6.93	60
70	MP9	Z	-12.01	60

## Member Point Loads (BLC 4 : Wind Load AZI 60)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	-180.42	90
2	MP1	Z	-104.16	90
3	MP1	X	-180.42	6
4	MP1	Z	-104.16	6
5	MP2	X	-180.42	90
6	MP2	Z	-104.16	90
7	MP2	X	-180.42	6
8	MP2	Z	-104.16	6
9	MP3	X	-61.8	90
10	MP3	Z	-35.68	90
11	MP3	X	-61.8	40
12	MP3	Z	-35.68	40
13	MP2	X	-43.4	68
14	MP2	Z	-25.06	68
15	MP2	X	-50.31	60
16	MP2	Z	-29.05	60
17	MP1	X	-54.58	60



### Member Point Loads (BLC 4 : Wind Load AZI 60) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
18	MP1	Z	-31.51	60
19	MP3	X	-18.55	60
20	MP3	Z	-10.71	60
21	MP3	X	-18.55	60
22	MP3	Z	-10.71	60
23	M1	X	-31.71	12
24	M1	Z	-18.31	12
25	MP4	X	-295.45	90
26	MP4	Z	-170.58	90
27	MP4	X	-295.45	6
28	MP4	Z	-170.58	6
29	MP5	X	-295.45	90
30	MP5	Z	-170.58	90
31	MP5	X	-295.45	6
32	MP5	Z	-170.58	6
33	MP6	X	-93.92	90
34	MP6	Z	-54.22	90
35	MP6	X	-93.92	40
36	MP6	Z	-54.22	40
37	MP5	X	-62.91	68
38	MP5	Z	-36.32	68
39	MP5	X	-59.84	60
40	MP5	Z	-34.55	60
41	MP4	X	-71.41	60
42	MP4	Z	-41.23	60
43	MP6	X	-37.4	60
44	MP6	Z	-21.59	60
45	MP6	X	-37.4	60
46	MP6	Z	-21.59	60
47	M5	X	-31.71	12
48	M5	Z	-18.31	12
49	MP7	X	-180.42	90
50	MP7	Z	-104.16	90
51	MP7	X	-180.42	6
52	MP7	Z	-104.16	6
53	MP8	X	-180.42	90
54	MP8	Z	-104.16	90
55	MP8	X	-180.42	6
56	MP8	Z	-104.16	6
57	MP9	X	-61.8	90
58	MP9	Z	-35.68	90
59	MP9	X	-61.8	40
60	MP9	Z	-35.68	40
61	MP8	X	-43.4	68
62	MP8	Z	-25.06	68
63	MP8	X	-50.31	60
64	MP8	Z	-29.05	60
65	MP7	X	-54.58	60
66	MP7	Z	-31.51	60
67	MP9	X	-18.55	60
68	MP9	Z	-10.71	60
69	MP9	X	-18.55	60
70	MP9	Z	-10.71	60

### Member Point Loads (BLC 5 : Wind Load AZI 90)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
--	--------------	-----------	---------------------	----------------

## Member Point Loads (BLC 5 : Wind Load AZI 90) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-162.19	90
2	MP1	Z	0	90
3	MP1	X	-162.19	6
4	MP1	Z	0	6
5	MP2	X	-162.19	90
6	MP2	Z	0	90
7	MP2	X	-162.19	6
8	MP2	Z	0	6
9	MP3	X	-58.47	90
10	MP3	Z	0	90
11	MP3	X	-58.47	40
12	MP3	Z	0	40
13	MP2	X	-42.28	68
14	MP2	Z	0	68
15	MP2	X	-54.27	60
16	MP2	Z	0	60
17	MP1	X	-56.27	60
18	MP1	Z	0	60
19	MP3	X	-13.86	60
20	MP3	Z	0	60
21	MP3	X	-13.86	60
22	MP3	Z	0	60
23	M1	X	-36.61	12
24	M1	Z	0	12
25	MP4	X	-270.48	90
26	MP4	Z	0	90
27	MP4	X	-270.48	6
28	MP4	Z	0	6
29	MP5	X	-270.48	90
30	MP5	Z	0	90
31	MP5	X	-270.48	6
32	MP5	Z	0	6
33	MP6	X	-88.71	90
34	MP6	Z	0	90
35	MP6	X	-88.71	40
36	MP6	Z	0	40
37	MP5	X	-60.65	68
38	MP5	Z	0	68
39	MP5	X	-63.24	60
40	MP5	Z	0	60
41	MP4	X	-72.12	60
42	MP4	Z	0	60
43	MP6	X	-31.6	60
44	MP6	Z	0	60
45	MP6	X	-31.6	60
46	MP6	Z	0	60
47	M5	X	-36.61	12
48	M5	Z	0	12
49	MP7	X	-300.59	90
50	MP7	Z	0	90
51	MP7	X	-300.59	6
52	MP7	Z	0	6
53	MP8	X	-300.59	90
54	MP8	Z	0	90
55	MP8	X	-300.59	6
56	MP8	Z	0	6
57	MP9	X	-97.12	90

### Member Point Loads (BLC 5 : Wind Load AZI 90) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
58	MP9	Z	0	90
59	MP9	X	-97.12	40
60	MP9	Z	0	40
61	MP8	X	-65.76	68
62	MP8	Z	0	68
63	MP8	X	-65.74	60
64	MP8	Z	0	60
65	MP7	X	-76.52	60
66	MP7	Z	0	60
67	MP9	X	-36.53	60
68	MP9	Z	0	60
69	MP9	X	-36.53	60
70	MP9	Z	0	60

### Member Point Loads (BLC 6 : Wind Load AZI 120)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	-180.42	90
2	MP1	Z	104.16	90
3	MP1	X	-180.42	6
4	MP1	Z	104.16	6
5	MP2	X	-180.42	90
6	MP2	Z	104.16	90
7	MP2	X	-180.42	6
8	MP2	Z	104.16	6
9	MP3	X	-61.8	90
10	MP3	Z	35.68	90
11	MP3	X	-61.8	40
12	MP3	Z	35.68	40
13	MP2	X	-43.4	68
14	MP2	Z	25.06	68
15	MP2	X	-50.31	60
16	MP2	Z	29.05	60
17	MP1	X	-54.58	60
18	MP1	Z	31.51	60
19	MP3	X	-18.55	60
20	MP3	Z	10.71	60
21	MP3	X	-18.55	60
22	MP3	Z	10.71	60
23	M1	X	-31.71	12
24	M1	Z	18.31	12
25	MP4	X	-159.16	90
26	MP4	Z	91.89	90
27	MP4	X	-159.16	6
28	MP4	Z	91.89	6
29	MP5	X	-159.16	90
30	MP5	Z	91.89	90
31	MP5	X	-159.16	6
32	MP5	Z	91.89	6
33	MP6	X	-55.86	90
34	MP6	Z	32.25	90
35	MP6	X	-55.86	40
36	MP6	Z	32.25	40
37	MP5	X	-39.79	68
38	MP5	Z	22.97	68
39	MP5	X	-48.55	60
40	MP5	Z	28.03	60

### Member Point Loads (BLC 6 : Wind Load AZI 120) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
41	MP4	X	-51.47	60
42	MP4	Z	29.71	60
43	MP6	X	-15.07	60
44	MP6	Z	8.7	60
45	MP6	X	-15.07	60
46	MP6	Z	8.7	60
47	M5	X	-31.71	12
48	M5	Z	18.31	12
49	MP7	X	-300.27	90
50	MP7	Z	173.36	90
51	MP7	X	-300.27	6
52	MP7	Z	173.36	6
53	MP8	X	-300.27	90
54	MP8	Z	173.36	90
55	MP8	X	-300.27	6
56	MP8	Z	173.36	6
57	MP9	X	-95.26	90
58	MP9	Z	55	90
59	MP9	X	-95.26	40
60	MP9	Z	55	40
61	MP8	X	-63.73	68
62	MP8	Z	36.79	68
63	MP8	X	-60.24	60
64	MP8	Z	34.78	60
65	MP7	X	-72.12	60
66	MP7	Z	41.64	60
67	MP9	X	-38.18	60
68	MP9	Z	22.05	60
69	MP9	X	-38.18	60
70	MP9	Z	22.05	60

### Member Point Loads (BLC 7 : Wind Load AZI 150)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	-150.3	90
2	MP1	Z	260.32	90
3	MP1	X	-150.3	6
4	MP1	Z	260.32	6
5	MP2	X	-150.3	90
6	MP2	Z	260.32	90
7	MP2	X	-150.3	6
8	MP2	Z	260.32	6
9	MP3	X	-48.56	90
10	MP3	Z	84.11	90
11	MP3	X	-48.56	40
12	MP3	Z	84.11	40
13	MP2	X	-32.88	68
14	MP2	Z	56.95	68
15	MP2	X	-32.87	60
16	MP2	Z	56.93	60
17	MP1	X	-38.26	60
18	MP1	Z	66.27	60
19	MP3	X	-18.27	60
20	MP3	Z	31.64	60
21	MP3	X	-18.27	60
22	MP3	Z	31.64	60
23	M1	X	-18.31	12

## Member Point Loads (BLC 7 : Wind Load AZI 150) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
24	M1	Z	31.71	12
25	MP4	X	-83.88	90
26	MP4	Z	145.28	90
27	MP4	X	-83.88	6
28	MP4	Z	145.28	6
29	MP5	X	-83.88	90
30	MP5	Z	145.28	90
31	MP5	X	-83.88	6
32	MP5	Z	145.28	6
33	MP6	X	-30.01	90
34	MP6	Z	51.99	90
35	MP6	X	-30.01	40
36	MP6	Z	51.99	40
37	MP5	X	-21.61	68
38	MP5	Z	37.44	68
39	MP5	X	-27.37	60
40	MP5	Z	47.4	60
41	MP4	X	-28.54	60
42	MP4	Z	49.44	60
43	MP6	X	-7.39	60
44	MP6	Z	12.8	60
45	MP6	X	-7.39	60
46	MP6	Z	12.8	60
47	M5	X	-18.31	12
48	M5	Z	31.71	12
49	MP7	X	-150.3	90
50	MP7	Z	260.32	90
51	MP7	X	-150.3	6
52	MP7	Z	260.32	6
53	MP8	X	-150.3	90
54	MP8	Z	260.32	90
55	MP8	X	-150.3	6
56	MP8	Z	260.32	6
57	MP9	X	-48.56	90
58	MP9	Z	84.11	90
59	MP9	X	-48.56	40
60	MP9	Z	84.11	40
61	MP8	X	-32.88	68
62	MP8	Z	56.95	68
63	MP8	X	-32.87	60
64	MP8	Z	56.93	60
65	MP7	X	-38.26	60
66	MP7	Z	66.27	60
67	MP9	X	-18.27	60
68	MP9	Z	31.64	60
69	MP9	X	-18.27	60
70	MP9	Z	31.64	60

## Member Point Loads (BLC 8 : Wind Load AZI 180)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	0	90
2	MP1	Z	346.73	90
3	MP1	X	0	6
4	MP1	Z	346.73	6
5	MP2	X	0	90
6	MP2	Z	346.73	90

## Member Point Loads (BLC 8 : Wind Load AZI 180) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
7	MP2	X	0	6
8	MP2	Z	346.73	6
9	MP3	X	0	90
10	MP3	Z	110	90
11	MP3	X	0	40
12	MP3	Z	110	40
13	MP2	X	0	68
14	MP2	Z	73.59	68
15	MP2	X	0	60
16	MP2	Z	69.56	60
17	MP1	X	0	60
18	MP1	Z	83.27	60
19	MP3	X	0	60
20	MP3	Z	44.09	60
21	MP3	X	0	60
22	MP3	Z	44.09	60
23	M1	X	0	12
24	M1	Z	36.61	12
25	MP4	X	0	90
26	MP4	Z	238.44	90
27	MP4	X	0	6
28	MP4	Z	238.44	6
29	MP5	X	0	90
30	MP5	Z	238.44	90
31	MP5	X	0	6
32	MP5	Z	238.44	6
33	MP6	X	0	90
34	MP6	Z	79.76	90
35	MP6	X	0	40
36	MP6	Z	79.76	40
37	MP5	X	0	68
38	MP5	Z	55.22	68
39	MP5	X	0	60
40	MP5	Z	60.59	60
41	MP4	X	0	60
42	MP4	Z	67.43	60
43	MP6	X	0	60
44	MP6	Z	26.35	60
45	MP6	X	0	60
46	MP6	Z	26.35	60
47	M5	X	0	12
48	M5	Z	36.61	12
49	MP7	X	0	90
50	MP7	Z	208.33	90
51	MP7	X	0	6
52	MP7	Z	208.33	6
53	MP8	X	0	90
54	MP8	Z	208.33	90
55	MP8	X	0	6
56	MP8	Z	208.33	6
57	MP9	X	0	90
58	MP9	Z	71.36	90
59	MP9	X	0	40
60	MP9	Z	71.36	40
61	MP8	X	0	68
62	MP8	Z	50.11	68
63	MP8	X	0	60

### Member Point Loads (BLC 8 : Wind Load AZI 180) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
64	MP8	Z	58.09	60
65	MP7	X	0	60
66	MP7	Z	63.02	60
67	MP9	X	0	60
68	MP9	Z	21.42	60
69	MP9	X	0	60
70	MP9	Z	21.42	60

### Member Point Loads (BLC 9 : Wind Load AZI 210)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	150.3	90
2	MP1	Z	260.32	90
3	MP1	X	150.3	6
4	MP1	Z	260.32	6
5	MP2	X	150.3	90
6	MP2	Z	260.32	90
7	MP2	X	150.3	6
8	MP2	Z	260.32	6
9	MP3	X	48.56	90
10	MP3	Z	84.11	90
11	MP3	X	48.56	40
12	MP3	Z	84.11	40
13	MP2	X	32.88	68
14	MP2	Z	56.95	68
15	MP2	X	32.87	60
16	MP2	Z	56.93	60
17	MP1	X	38.26	60
18	MP1	Z	66.27	60
19	MP3	X	18.27	60
20	MP3	Z	31.64	60
21	MP3	X	18.27	60
22	MP3	Z	31.64	60
23	M1	X	18.31	12
24	M1	Z	31.71	12
25	MP4	X	162.57	90
26	MP4	Z	281.58	90
27	MP4	X	162.57	6
28	MP4	Z	281.58	6
29	MP5	X	162.57	90
30	MP5	Z	281.58	90
31	MP5	X	162.57	6
32	MP5	Z	281.58	6
33	MP6	X	51.99	90
34	MP6	Z	90.04	90
35	MP6	X	51.99	40
36	MP6	Z	90.04	40
37	MP5	X	34.96	68
38	MP5	Z	60.56	68
39	MP5	X	33.88	60
40	MP5	Z	58.69	60
41	MP4	X	40.06	60
42	MP4	Z	69.38	60
43	MP6	X	20.28	60
44	MP6	Z	35.12	60
45	MP6	X	20.28	60
46	MP6	Z	35.12	60

## Member Point Loads (BLC 9 : Wind Load AZI 210) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
47	M5	X	18.31	12
48	M5	Z	31.71	12
49	MP7	X	81.1	90
50	MP7	Z	140.46	90
51	MP7	X	81.1	6
52	MP7	Z	140.46	6
53	MP8	X	81.1	90
54	MP8	Z	140.46	90
55	MP8	X	81.1	6
56	MP8	Z	140.46	6
57	MP9	X	29.24	90
58	MP9	Z	50.64	90
59	MP9	X	29.24	40
60	MP9	Z	50.64	40
61	MP8	X	21.14	68
62	MP8	Z	36.62	68
63	MP8	X	27.14	60
64	MP8	Z	47	60
65	MP7	X	28.14	60
66	MP7	Z	48.73	60
67	MP9	X	6.93	60
68	MP9	Z	12.01	60
69	MP9	X	6.93	60
70	MP9	Z	12.01	60

## Member Point Loads (BLC 10 : Wind Load AZI 240)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	180.42	90
2	MP1	Z	104.16	90
3	MP1	X	180.42	6
4	MP1	Z	104.16	6
5	MP2	X	180.42	90
6	MP2	Z	104.16	90
7	MP2	X	180.42	6
8	MP2	Z	104.16	6
9	MP3	X	61.8	90
10	MP3	Z	35.68	90
11	MP3	X	61.8	40
12	MP3	Z	35.68	40
13	MP2	X	43.4	68
14	MP2	Z	25.06	68
15	MP2	X	50.31	60
16	MP2	Z	29.05	60
17	MP1	X	54.58	60
18	MP1	Z	31.51	60
19	MP3	X	18.55	60
20	MP3	Z	10.71	60
21	MP3	X	18.55	60
22	MP3	Z	10.71	60
23	M1	X	31.71	12
24	M1	Z	18.31	12
25	MP4	X	295.45	90
26	MP4	Z	170.58	90
27	MP4	X	295.45	6
28	MP4	Z	170.58	6
29	MP5	X	295.45	90



## Member Point Loads (BLC 10 : Wind Load AZI 240) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
30	MP5	Z	170.58	90
31	MP5	X	295.45	6
32	MP5	Z	170.58	6
33	MP6	X	93.92	90
34	MP6	Z	54.22	90
35	MP6	X	93.92	40
36	MP6	Z	54.22	40
37	MP5	X	62.91	68
38	MP5	Z	36.32	68
39	MP5	X	59.84	60
40	MP5	Z	34.55	60
41	MP4	X	71.41	60
42	MP4	Z	41.23	60
43	MP6	X	37.4	60
44	MP6	Z	21.59	60
45	MP6	X	37.4	60
46	MP6	Z	21.59	60
47	M5	X	31.71	12
48	M5	Z	18.31	12
49	MP7	X	180.42	90
50	MP7	Z	104.16	90
51	MP7	X	180.42	6
52	MP7	Z	104.16	6
53	MP8	X	180.42	90
54	MP8	Z	104.16	90
55	MP8	X	180.42	6
56	MP8	Z	104.16	6
57	MP9	X	61.8	90
58	MP9	Z	35.68	90
59	MP9	X	61.8	40
60	MP9	Z	35.68	40
61	MP8	X	43.4	68
62	MP8	Z	25.06	68
63	MP8	X	50.31	60
64	MP8	Z	29.05	60
65	MP7	X	54.58	60
66	MP7	Z	31.51	60
67	MP9	X	18.55	60
68	MP9	Z	10.71	60
69	MP9	X	18.55	60
70	MP9	Z	10.71	60

## Member Point Loads (BLC 11 : Wind Load AZI 270)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	162.19	90
2	MP1	Z	0	90
3	MP1	X	162.19	6
4	MP1	Z	0	6
5	MP2	X	162.19	90
6	MP2	Z	0	90
7	MP2	X	162.19	6
8	MP2	Z	0	6
9	MP3	X	58.47	90
10	MP3	Z	0	90
11	MP3	X	58.47	40
12	MP3	Z	0	40

## Member Point Loads (BLC 11 : Wind Load AZI 270) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
13	MP2	X	42.28	68
14	MP2	Z	0	68
15	MP2	X	54.27	60
16	MP2	Z	0	60
17	MP1	X	56.27	60
18	MP1	Z	0	60
19	MP3	X	13.86	60
20	MP3	Z	0	60
21	MP3	X	13.86	60
22	MP3	Z	0	60
23	M1	X	36.61	12
24	M1	Z	0	12
25	MP4	X	270.48	90
26	MP4	Z	0	90
27	MP4	X	270.48	6
28	MP4	Z	0	6
29	MP5	X	270.48	90
30	MP5	Z	0	90
31	MP5	X	270.48	6
32	MP5	Z	0	6
33	MP6	X	88.71	90
34	MP6	Z	0	90
35	MP6	X	88.71	40
36	MP6	Z	0	40
37	MP5	X	60.65	68
38	MP5	Z	0	68
39	MP5	X	63.24	60
40	MP5	Z	0	60
41	MP4	X	72.12	60
42	MP4	Z	0	60
43	MP6	X	31.6	60
44	MP6	Z	0	60
45	MP6	X	31.6	60
46	MP6	Z	0	60
47	M5	X	36.61	12
48	M5	Z	0	12
49	MP7	X	300.59	90
50	MP7	Z	0	90
51	MP7	X	300.59	6
52	MP7	Z	0	6
53	MP8	X	300.59	90
54	MP8	Z	0	90
55	MP8	X	300.59	6
56	MP8	Z	0	6
57	MP9	X	97.12	90
58	MP9	Z	0	90
59	MP9	X	97.12	40
60	MP9	Z	0	40
61	MP8	X	65.76	68
62	MP8	Z	0	68
63	MP8	X	65.74	60
64	MP8	Z	0	60
65	MP7	X	76.52	60
66	MP7	Z	0	60
67	MP9	X	36.53	60
68	MP9	Z	0	60
69	MP9	X	36.53	60

### Member Point Loads (BLC 11 : Wind Load AZI 270) (Continued)

Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
70 MP9	Z	0	60

### Member Point Loads (BLC 12 : Wind Load AZI 300)

Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1 MP1	X	180.42	90
2 MP1	Z	-104.16	90
3 MP1	X	180.42	6
4 MP1	Z	-104.16	6
5 MP2	X	180.42	90
6 MP2	Z	-104.16	90
7 MP2	X	180.42	6
8 MP2	Z	-104.16	6
9 MP3	X	61.8	90
10 MP3	Z	-35.68	90
11 MP3	X	61.8	40
12 MP3	Z	-35.68	40
13 MP2	X	43.4	68
14 MP2	Z	-25.06	68
15 MP2	X	50.31	60
16 MP2	Z	-29.05	60
17 MP1	X	54.58	60
18 MP1	Z	-31.51	60
19 MP3	X	18.55	60
20 MP3	Z	-10.71	60
21 MP3	X	18.55	60
22 MP3	Z	-10.71	60
23 M1	X	31.71	12
24 M1	Z	-18.31	12
25 MP4	X	159.16	90
26 MP4	Z	-91.89	90
27 MP4	X	159.16	6
28 MP4	Z	-91.89	6
29 MP5	X	159.16	90
30 MP5	Z	-91.89	90
31 MP5	X	159.16	6
32 MP5	Z	-91.89	6
33 MP6	X	55.86	90
34 MP6	Z	-32.25	90
35 MP6	X	55.86	40
36 MP6	Z	-32.25	40
37 MP5	X	39.79	68
38 MP5	Z	-22.97	68
39 MP5	X	48.55	60
40 MP5	Z	-28.03	60
41 MP4	X	51.47	60
42 MP4	Z	-29.71	60
43 MP6	X	15.07	60
44 MP6	Z	-8.7	60
45 MP6	X	15.07	60
46 MP6	Z	-8.7	60
47 M5	X	31.71	12
48 M5	Z	-18.31	12
49 MP7	X	300.27	90
50 MP7	Z	-173.36	90
51 MP7	X	300.27	6
52 MP7	Z	-173.36	6

### Member Point Loads (BLC 12 : Wind Load AZI 300) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
53	MP8	X	300.27	90
54	MP8	Z	-173.36	90
55	MP8	X	300.27	6
56	MP8	Z	-173.36	6
57	MP9	X	95.26	90
58	MP9	Z	-55	90
59	MP9	X	95.26	40
60	MP9	Z	-55	40
61	MP8	X	63.73	68
62	MP8	Z	-36.79	68
63	MP8	X	60.24	60
64	MP8	Z	-34.78	60
65	MP7	X	72.12	60
66	MP7	Z	-41.64	60
67	MP9	X	38.18	60
68	MP9	Z	-22.05	60
69	MP9	X	38.18	60
70	MP9	Z	-22.05	60

### Member Point Loads (BLC 13 : Wind Load AZI 330)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	150.3	90
2	MP1	Z	-260.32	90
3	MP1	X	150.3	6
4	MP1	Z	-260.32	6
5	MP2	X	150.3	90
6	MP2	Z	-260.32	90
7	MP2	X	150.3	6
8	MP2	Z	-260.32	6
9	MP3	X	48.56	90
10	MP3	Z	-84.11	90
11	MP3	X	48.56	40
12	MP3	Z	-84.11	40
13	MP2	X	32.88	68
14	MP2	Z	-56.95	68
15	MP2	X	32.87	60
16	MP2	Z	-56.93	60
17	MP1	X	38.26	60
18	MP1	Z	-66.27	60
19	MP3	X	18.27	60
20	MP3	Z	-31.64	60
21	MP3	X	18.27	60
22	MP3	Z	-31.64	60
23	M1	X	18.31	12
24	M1	Z	-31.71	12
25	MP4	X	83.88	90
26	MP4	Z	-145.28	90
27	MP4	X	83.88	6
28	MP4	Z	-145.28	6
29	MP5	X	83.88	90
30	MP5	Z	-145.28	90
31	MP5	X	83.88	6
32	MP5	Z	-145.28	6
33	MP6	X	30.01	90
34	MP6	Z	-51.99	90
35	MP6	X	30.01	40

## Member Point Loads (BLC 13 : Wind Load AZI 330) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
36	MP6	Z	-51.99	40
37	MP5	X	21.61	68
38	MP5	Z	-37.44	68
39	MP5	X	27.37	60
40	MP5	Z	-47.4	60
41	MP4	X	28.54	60
42	MP4	Z	-49.44	60
43	MP6	X	7.39	60
44	MP6	Z	-12.8	60
45	MP6	X	7.39	60
46	MP6	Z	-12.8	60
47	M5	X	18.31	12
48	M5	Z	-31.71	12
49	MP7	X	150.3	90
50	MP7	Z	-260.32	90
51	MP7	X	150.3	6
52	MP7	Z	-260.32	6
53	MP8	X	150.3	90
54	MP8	Z	-260.32	90
55	MP8	X	150.3	6
56	MP8	Z	-260.32	6
57	MP9	X	48.56	90
58	MP9	Z	-84.11	90
59	MP9	X	48.56	40
60	MP9	Z	-84.11	40
61	MP8	X	32.88	68
62	MP8	Z	-56.95	68
63	MP8	X	32.87	60
64	MP8	Z	-56.93	60
65	MP7	X	38.26	60
66	MP7	Z	-66.27	60
67	MP9	X	18.27	60
68	MP9	Z	-31.64	60
69	MP9	X	18.27	60
70	MP9	Z	-31.64	60

## Member Point Loads (BLC 16 : Ice Weight)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	Y	-147.623	90
2	MP1	Y	-147.623	6
3	MP2	Y	-147.623	90
4	MP2	Y	-147.623	6
5	MP3	Y	-53.304	90
6	MP3	Y	-53.304	40
7	MP2	Y	-52.743	68
8	MP2	Y	-60.123	60
9	MP1	Y	-63.014	60
10	MP3	Y	-25.769	60
11	MP3	Y	-25.769	60
12	M1	Y	-73.357	12
13	MP4	Y	-147.623	90
14	MP4	Y	-147.623	6
15	MP5	Y	-147.623	90
16	MP5	Y	-147.623	6
17	MP6	Y	-53.304	90
18	MP6	Y	-53.304	40

### Member Point Loads (BLC 16 : Ice Weight) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
19	MP5	Y	-52.743	68
20	MP5	Y	-60.123	60
21	MP4	Y	-63.014	60
22	MP6	Y	-25.769	60
23	MP6	Y	-25.769	60
24	M5	Y	-73.357	12
25	MP7	Y	-147.623	90
26	MP7	Y	-147.623	6
27	MP8	Y	-147.623	90
28	MP8	Y	-147.623	6
29	MP9	Y	-53.304	90
30	MP9	Y	-53.304	40
31	MP8	Y	-52.743	68
32	MP8	Y	-60.123	60
33	MP7	Y	-63.014	60
34	MP9	Y	-25.769	60
35	MP9	Y	-25.769	60

### Member Point Loads (BLC 17 : Ice Wind Load AZI 0)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	0	90
2	MP1	Z	-23.25	90
3	MP1	X	0	6
4	MP1	Z	-23.25	6
5	MP2	X	0	90
6	MP2	Z	-23.25	90
7	MP2	X	0	6
8	MP2	Z	-23.25	6
9	MP3	X	0	90
10	MP3	Z	-9.41	90
11	MP3	X	0	40
12	MP3	Z	-9.41	40
13	MP2	X	0	68
14	MP2	Z	-6.42	68
15	MP2	X	0	60
16	MP2	Z	-6.01	60
17	MP1	X	0	60
18	MP1	Z	-7.01	60
19	MP3	X	0	60
20	MP3	Z	-4.91	60
21	MP3	X	0	60
22	MP3	Z	-4.91	60
23	M1	X	0	12
24	M1	Z	-8.2	12
25	MP4	X	0	90
26	MP4	Z	-18.94	90
27	MP4	X	0	6
28	MP4	Z	-18.94	6
29	MP5	X	0	90
30	MP5	Z	-18.94	90
31	MP5	X	0	6
32	MP5	Z	-18.94	6
33	MP6	X	0	90
34	MP6	Z	-7.99	90
35	MP6	X	0	40
36	MP6	Z	-7.99	40

### Member Point Loads (BLC 17 : Ice Wind Load AZI 0) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
37	MP5	X	0	68
38	MP5	Z	-5.67	68
39	MP5	X	0	60
40	MP5	Z	-5.67	60
41	MP4	X	0	60
42	MP4	Z	-6.4	60
43	MP6	X	0	60
44	MP6	Z	-3.53	60
45	MP6	X	0	60
46	MP6	Z	-3.53	60
47	M5	X	0	12
48	M5	Z	-8.2	12
49	MP7	X	0	90
50	MP7	Z	-17.74	90
51	MP7	X	0	6
52	MP7	Z	-17.74	6
53	MP8	X	0	90
54	MP8	Z	-17.74	90
55	MP8	X	0	6
56	MP8	Z	-17.74	6
57	MP9	X	0	90
58	MP9	Z	-7.6	90
59	MP9	X	0	40
60	MP9	Z	-7.6	40
61	MP8	X	0	68
62	MP8	Z	-5.46	68
63	MP8	X	0	60
64	MP8	Z	-5.57	60
65	MP7	X	0	60
66	MP7	Z	-6.23	60
67	MP9	X	0	60
68	MP9	Z	-3.15	60
69	MP9	X	0	60
70	MP9	Z	-3.15	60

### Member Point Loads (BLC 18 : Ice Wind Load AZI 30)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	-10.71	90
2	MP1	Z	-18.54	90
3	MP1	X	-10.71	6
4	MP1	Z	-18.54	6
5	MP2	X	-10.71	90
6	MP2	Z	-18.54	90
7	MP2	X	-10.71	6
8	MP2	Z	-18.54	6
9	MP3	X	-4.4	90
10	MP3	Z	-7.62	90
11	MP3	X	-4.4	40
12	MP3	Z	-7.62	40
13	MP2	X	-3.05	68
14	MP2	Z	-5.28	68
15	MP2	X	-2.93	60
16	MP2	Z	-5.08	60
17	MP1	X	-3.37	60
18	MP1	Z	-5.84	60
19	MP3	X	-2.16	60

## Member Point Loads (BLC 18 : Ice Wind Load AZI 30) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
20	MP3	Z	-3.74	60
21	MP3	X	-2.16	60
22	MP3	Z	-3.74	60
23	M1	X	-4.1	12
24	M1	Z	-7.1	12
25	MP4	X	-11.19	90
26	MP4	Z	-19.39	90
27	MP4	X	-11.19	6
28	MP4	Z	-19.39	6
29	MP5	X	-11.19	90
30	MP5	Z	-19.39	90
31	MP5	X	-11.19	6
32	MP5	Z	-19.39	6
33	MP6	X	-4.56	90
34	MP6	Z	-7.9	90
35	MP6	X	-4.56	40
36	MP6	Z	-7.9	40
37	MP5	X	-3.14	68
38	MP5	Z	-5.43	68
39	MP5	X	-2.97	60
40	MP5	Z	-5.15	60
41	MP4	X	-3.44	60
42	MP4	Z	-5.97	60
43	MP6	X	-2.32	60
44	MP6	Z	-4.01	60
45	MP6	X	-2.32	60
46	MP6	Z	-4.01	60
47	M5	X	-4.1	12
48	M5	Z	-7.1	12
49	MP7	X	-7.95	90
50	MP7	Z	-13.77	90
51	MP7	X	-7.95	6
52	MP7	Z	-13.77	6
53	MP8	X	-7.95	90
54	MP8	Z	-13.77	90
55	MP8	X	-7.95	6
56	MP8	Z	-13.77	6
57	MP9	X	-3.5	90
58	MP9	Z	-6.06	90
59	MP9	X	-3.5	40
60	MP9	Z	-6.06	40
61	MP8	X	-2.57	68
62	MP8	Z	-4.45	68
63	MP8	X	-2.71	60
64	MP8	Z	-4.7	60
65	MP7	X	-2.98	60
66	MP7	Z	-5.17	60
67	MP9	X	-1.28	60
68	MP9	Z	-2.22	60
69	MP9	X	-1.28	60
70	MP9	Z	-2.22	60

## Member Point Loads (BLC 19 : Ice Wind Load AZI 60)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	-15.36	90
2	MP1	Z	-8.87	90



## Member Point Loads (BLC 19 : Ice Wind Load AZI 60) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
3	MP1	X	-15.36	6
4	MP1	Z	-8.87	6
5	MP2	X	-15.36	90
6	MP2	Z	-8.87	90
7	MP2	X	-15.36	6
8	MP2	Z	-8.87	6
9	MP3	X	-6.58	90
10	MP3	Z	-3.8	90
11	MP3	X	-6.58	40
12	MP3	Z	-3.8	40
13	MP2	X	-4.73	68
14	MP2	Z	-2.73	68
15	MP2	X	-4.82	60
16	MP2	Z	-2.79	60
17	MP1	X	-5.39	60
18	MP1	Z	-3.11	60
19	MP3	X	-2.73	60
20	MP3	Z	-1.58	60
21	MP3	X	-2.73	60
22	MP3	Z	-1.58	60
23	M1	X	-7.1	12
24	M1	Z	-4.1	12
25	MP4	X	-19.94	90
26	MP4	Z	-11.51	90
27	MP4	X	-19.94	6
28	MP4	Z	-11.51	6
29	MP5	X	-19.94	90
30	MP5	Z	-11.51	90
31	MP5	X	-19.94	6
32	MP5	Z	-11.51	6
33	MP6	X	-8.08	90
34	MP6	Z	-4.67	90
35	MP6	X	-8.08	40
36	MP6	Z	-4.67	40
37	MP5	X	-5.53	68
38	MP5	Z	-3.19	68
39	MP5	X	-5.19	60
40	MP5	Z	-3	60
41	MP4	X	-6.04	60
42	MP4	Z	-3.49	60
43	MP6	X	-4.19	60
44	MP6	Z	-2.42	60
45	MP6	X	-4.19	60
46	MP6	Z	-2.42	60
47	M5	X	-7.1	12
48	M5	Z	-4.1	12
49	MP7	X	-15.36	90
50	MP7	Z	-8.87	90
51	MP7	X	-15.36	6
52	MP7	Z	-8.87	6
53	MP8	X	-15.36	90
54	MP8	Z	-8.87	90
55	MP8	X	-15.36	6
56	MP8	Z	-8.87	6
57	MP9	X	-6.58	90
58	MP9	Z	-3.8	90
59	MP9	X	-6.58	40

### Member Point Loads (BLC 19 : Ice Wind Load AZI 60) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
60	MP9	Z	-3.8	40
61	MP8	X	-4.73	68
62	MP8	Z	-2.73	68
63	MP8	X	-4.82	60
64	MP8	Z	-2.79	60
65	MP7	X	-5.39	60
66	MP7	Z	-3.11	60
67	MP9	X	-2.73	60
68	MP9	Z	-1.58	60
69	MP9	X	-2.73	60
70	MP9	Z	-1.58	60

### Member Point Loads (BLC 20 : Ice Wind Load AZI 90)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	-15.9	90
2	MP1	Z	0	90
3	MP1	X	-15.9	6
4	MP1	Z	0	6
5	MP2	X	-15.9	90
6	MP2	Z	0	90
7	MP2	X	-15.9	6
8	MP2	Z	0	6
9	MP3	X	-7	90
10	MP3	Z	0	90
11	MP3	X	-7	40
12	MP3	Z	0	40
13	MP2	X	-5.14	68
14	MP2	Z	0	68
15	MP2	X	-5.42	60
16	MP2	Z	0	60
17	MP1	X	-5.97	60
18	MP1	Z	0	60
19	MP3	X	-2.57	60
20	MP3	Z	0	60
21	MP3	X	-2.57	60
22	MP3	Z	0	60
23	M1	X	-8.2	12
24	M1	Z	0	12
25	MP4	X	-20.21	90
26	MP4	Z	0	90
27	MP4	X	-20.21	6
28	MP4	Z	0	6
29	MP5	X	-20.21	90
30	MP5	Z	0	90
31	MP5	X	-20.21	6
32	MP5	Z	0	6
33	MP6	X	-8.41	90
34	MP6	Z	0	90
35	MP6	X	-8.41	40
36	MP6	Z	0	40
37	MP5	X	-5.89	68
38	MP5	Z	0	68
39	MP5	X	-5.77	60
40	MP5	Z	0	60
41	MP4	X	-6.58	60
42	MP4	Z	0	60

### Member Point Loads (BLC 20 : Ice Wind Load AZI 90) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
43	MP6	X	-3.94	60
44	MP6	Z	0	60
45	MP6	X	-3.94	60
46	MP6	Z	0	60
47	M5	X	-8.2	12
48	M5	Z	0	12
49	MP7	X	-21.41	90
50	MP7	Z	0	90
51	MP7	X	-21.41	6
52	MP7	Z	0	6
53	MP8	X	-21.41	90
54	MP8	Z	0	90
55	MP8	X	-21.41	6
56	MP8	Z	0	6
57	MP9	X	-8.8	90
58	MP9	Z	0	90
59	MP9	X	-8.8	40
60	MP9	Z	0	40
61	MP8	X	-6.1	68
62	MP8	Z	0	68
63	MP8	X	-5.87	60
64	MP8	Z	0	60
65	MP7	X	-6.75	60
66	MP7	Z	0	60
67	MP9	X	-4.32	60
68	MP9	Z	0	60
69	MP9	X	-4.32	60
70	MP9	Z	0	60

### Member Point Loads (BLC 21 : Ice Wind Load AZI 120)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	-15.36	90
2	MP1	Z	8.87	90
3	MP1	X	-15.36	6
4	MP1	Z	8.87	6
5	MP2	X	-15.36	90
6	MP2	Z	8.87	90
7	MP2	X	-15.36	6
8	MP2	Z	8.87	6
9	MP3	X	-6.58	90
10	MP3	Z	3.8	90
11	MP3	X	-6.58	40
12	MP3	Z	3.8	40
13	MP2	X	-4.73	68
14	MP2	Z	2.73	68
15	MP2	X	-4.82	60
16	MP2	Z	2.79	60
17	MP1	X	-5.39	60
18	MP1	Z	3.11	60
19	MP3	X	-2.73	60
20	MP3	Z	1.58	60
21	MP3	X	-2.73	60
22	MP3	Z	1.58	60
23	M1	X	-7.1	12
24	M1	Z	4.1	12
25	MP4	X	-14.52	90

### Member Point Loads (BLC 21 : Ice Wind Load AZI 120) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
26	MP4	Z	8.38	90
27	MP4	X	-14.52	6
28	MP4	Z	8.38	6
29	MP5	X	-14.52	90
30	MP5	Z	8.38	90
31	MP5	X	-14.52	6
32	MP5	Z	8.38	6
33	MP6	X	-6.3	90
34	MP6	Z	3.64	90
35	MP6	X	-6.3	40
36	MP6	Z	3.64	40
37	MP5	X	-4.58	68
38	MP5	Z	2.65	68
39	MP5	X	-4.76	60
40	MP5	Z	2.75	60
41	MP4	X	-5.27	60
42	MP4	Z	3.04	60
43	MP6	X	-2.46	60
44	MP6	Z	1.42	60
45	MP6	X	-2.46	60
46	MP6	Z	1.42	60
47	M5	X	-7.1	12
48	M5	Z	4.1	12
49	MP7	X	-20.13	90
50	MP7	Z	11.62	90
51	MP7	X	-20.13	6
52	MP7	Z	11.62	6
53	MP8	X	-20.13	90
54	MP8	Z	11.62	90
55	MP8	X	-20.13	6
56	MP8	Z	11.62	6
57	MP9	X	-8.15	90
58	MP9	Z	4.7	90
59	MP9	X	-8.15	40
60	MP9	Z	4.7	40
61	MP8	X	-5.56	68
62	MP8	Z	3.21	68
63	MP8	X	-5.21	60
64	MP8	Z	3.01	60
65	MP7	X	-6.07	60
66	MP7	Z	3.51	60
67	MP9	X	-4.25	60
68	MP9	Z	2.45	60
69	MP9	X	-4.25	60
70	MP9	Z	2.45	60

### Member Point Loads (BLC 22 : Ice Wind Load AZI 150)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	-10.71	90
2	MP1	Z	18.54	90
3	MP1	X	-10.71	6
4	MP1	Z	18.54	6
5	MP2	X	-10.71	90
6	MP2	Z	18.54	90
7	MP2	X	-10.71	6
8	MP2	Z	18.54	6

## Member Point Loads (BLC 22 : Ice Wind Load AZI 150) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
9	MP3	X	-4.4	90
10	MP3	Z	7.62	90
11	MP3	X	-4.4	40
12	MP3	Z	7.62	40
13	MP2	X	-3.05	68
14	MP2	Z	5.28	68
15	MP2	X	-2.93	60
16	MP2	Z	5.08	60
17	MP1	X	-3.37	60
18	MP1	Z	5.84	60
19	MP3	X	-2.16	60
20	MP3	Z	3.74	60
21	MP3	X	-2.16	60
22	MP3	Z	3.74	60
23	M1	X	-4.1	12
24	M1	Z	7.1	12
25	MP4	X	-8.06	90
26	MP4	Z	13.96	90
27	MP4	X	-8.06	6
28	MP4	Z	13.96	6
29	MP5	X	-8.06	90
30	MP5	Z	13.96	90
31	MP5	X	-8.06	6
32	MP5	Z	13.96	6
33	MP6	X	-3.54	90
34	MP6	Z	6.12	90
35	MP6	X	-3.54	40
36	MP6	Z	6.12	40
37	MP5	X	-2.59	68
38	MP5	Z	4.49	68
39	MP5	X	-2.72	60
40	MP5	Z	4.71	60
41	MP4	X	-3	60
42	MP4	Z	5.19	60
43	MP6	X	-1.32	60
44	MP6	Z	2.28	60
45	MP6	X	-1.32	60
46	MP6	Z	2.28	60
47	M5	X	-4.1	12
48	M5	Z	7.1	12
49	MP7	X	-10.71	90
50	MP7	Z	18.54	90
51	MP7	X	-10.71	6
52	MP7	Z	18.54	6
53	MP8	X	-10.71	90
54	MP8	Z	18.54	90
55	MP8	X	-10.71	6
56	MP8	Z	18.54	6
57	MP9	X	-4.4	90
58	MP9	Z	7.62	90
59	MP9	X	-4.4	40
60	MP9	Z	7.62	40
61	MP8	X	-3.05	68
62	MP8	Z	5.28	68
63	MP8	X	-2.93	60
64	MP8	Z	5.08	60
65	MP7	X	-3.37	60

### Member Point Loads (BLC 22 : Ice Wind Load AZI 150) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
66	MP7	Z	5.84	60
67	MP9	X	-2.16	60
68	MP9	Z	3.74	60
69	MP9	X	-2.16	60
70	MP9	Z	3.74	60

### Member Point Loads (BLC 23 : Ice Wind Load AZI 180)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	0	90
2	MP1	Z	23.25	90
3	MP1	X	0	6
4	MP1	Z	23.25	6
5	MP2	X	0	90
6	MP2	Z	23.25	90
7	MP2	X	0	6
8	MP2	Z	23.25	6
9	MP3	X	0	90
10	MP3	Z	9.41	90
11	MP3	X	0	40
12	MP3	Z	9.41	40
13	MP2	X	0	68
14	MP2	Z	6.42	68
15	MP2	X	0	60
16	MP2	Z	6.01	60
17	MP1	X	0	60
18	MP1	Z	7.01	60
19	MP3	X	0	60
20	MP3	Z	4.91	60
21	MP3	X	0	60
22	MP3	Z	4.91	60
23	M1	X	0	12
24	M1	Z	8.2	12
25	MP4	X	0	90
26	MP4	Z	18.94	90
27	MP4	X	0	6
28	MP4	Z	18.94	6
29	MP5	X	0	90
30	MP5	Z	18.94	90
31	MP5	X	0	6
32	MP5	Z	18.94	6
33	MP6	X	0	90
34	MP6	Z	7.99	90
35	MP6	X	0	40
36	MP6	Z	7.99	40
37	MP5	X	0	68
38	MP5	Z	5.67	68
39	MP5	X	0	60
40	MP5	Z	5.67	60
41	MP4	X	0	60
42	MP4	Z	6.4	60
43	MP6	X	0	60
44	MP6	Z	3.53	60
45	MP6	X	0	60
46	MP6	Z	3.53	60
47	M5	X	0	12
48	M5	Z	8.2	12

### Member Point Loads (BLC 23 : Ice Wind Load AZI 180) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
49	MP7	X	0	90
50	MP7	Z	17.74	90
51	MP7	X	0	6
52	MP7	Z	17.74	6
53	MP8	X	0	90
54	MP8	Z	17.74	90
55	MP8	X	0	6
56	MP8	Z	17.74	6
57	MP9	X	0	90
58	MP9	Z	7.6	90
59	MP9	X	0	40
60	MP9	Z	7.6	40
61	MP8	X	0	68
62	MP8	Z	5.46	68
63	MP8	X	0	60
64	MP8	Z	5.57	60
65	MP7	X	0	60
66	MP7	Z	6.23	60
67	MP9	X	0	60
68	MP9	Z	3.15	60
69	MP9	X	0	60
70	MP9	Z	3.15	60

### Member Point Loads (BLC 24 : Ice Wind Load AZI 210)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	10.71	90
2	MP1	Z	18.54	90
3	MP1	X	10.71	6
4	MP1	Z	18.54	6
5	MP2	X	10.71	90
6	MP2	Z	18.54	90
7	MP2	X	10.71	6
8	MP2	Z	18.54	6
9	MP3	X	4.4	90
10	MP3	Z	7.62	90
11	MP3	X	4.4	40
12	MP3	Z	7.62	40
13	MP2	X	3.05	68
14	MP2	Z	5.28	68
15	MP2	X	2.93	60
16	MP2	Z	5.08	60
17	MP1	X	3.37	60
18	MP1	Z	5.84	60
19	MP3	X	2.16	60
20	MP3	Z	3.74	60
21	MP3	X	2.16	60
22	MP3	Z	3.74	60
23	M1	X	4.1	12
24	M1	Z	7.1	12
25	MP4	X	11.19	90
26	MP4	Z	19.39	90
27	MP4	X	11.19	6
28	MP4	Z	19.39	6
29	MP5	X	11.19	90
30	MP5	Z	19.39	90
31	MP5	X	11.19	6

**Member Point Loads (BLC 24 : Ice Wind Load AZI 210) (Continued)**

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
32	MP5	Z	19.39	6
33	MP6	X	4.56	90
34	MP6	Z	7.9	90
35	MP6	X	4.56	40
36	MP6	Z	7.9	40
37	MP5	X	3.14	68
38	MP5	Z	5.43	68
39	MP5	X	2.97	60
40	MP5	Z	5.15	60
41	MP4	X	3.44	60
42	MP4	Z	5.97	60
43	MP6	X	2.32	60
44	MP6	Z	4.01	60
45	MP6	X	2.32	60
46	MP6	Z	4.01	60
47	M5	X	4.1	12
48	M5	Z	7.1	12
49	MP7	X	7.95	90
50	MP7	Z	13.77	90
51	MP7	X	7.95	6
52	MP7	Z	13.77	6
53	MP8	X	7.95	90
54	MP8	Z	13.77	90
55	MP8	X	7.95	6
56	MP8	Z	13.77	6
57	MP9	X	3.5	90
58	MP9	Z	6.06	90
59	MP9	X	3.5	40
60	MP9	Z	6.06	40
61	MP8	X	2.57	68
62	MP8	Z	4.45	68
63	MP8	X	2.71	60
64	MP8	Z	4.7	60
65	MP7	X	2.98	60
66	MP7	Z	5.17	60
67	MP9	X	1.28	60
68	MP9	Z	2.22	60
69	MP9	X	1.28	60
70	MP9	Z	2.22	60

**Member Point Loads (BLC 25 : Ice Wind Load AZI 240)**

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	15.36	90
2	MP1	Z	8.87	90
3	MP1	X	15.36	6
4	MP1	Z	8.87	6
5	MP2	X	15.36	90
6	MP2	Z	8.87	90
7	MP2	X	15.36	6
8	MP2	Z	8.87	6
9	MP3	X	6.58	90
10	MP3	Z	3.8	90
11	MP3	X	6.58	40
12	MP3	Z	3.8	40
13	MP2	X	4.73	68
14	MP2	Z	2.73	68



## Member Point Loads (BLC 25 : Ice Wind Load AZI 240) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
15	MP2	X	4.82	60
16	MP2	Z	2.79	60
17	MP1	X	5.39	60
18	MP1	Z	3.11	60
19	MP3	X	2.73	60
20	MP3	Z	1.58	60
21	MP3	X	2.73	60
22	MP3	Z	1.58	60
23	M1	X	7.1	12
24	M1	Z	4.1	12
25	MP4	X	19.94	90
26	MP4	Z	11.51	90
27	MP4	X	19.94	6
28	MP4	Z	11.51	6
29	MP5	X	19.94	90
30	MP5	Z	11.51	90
31	MP5	X	19.94	6
32	MP5	Z	11.51	6
33	MP6	X	8.08	90
34	MP6	Z	4.67	90
35	MP6	X	8.08	40
36	MP6	Z	4.67	40
37	MP5	X	5.53	68
38	MP5	Z	3.19	68
39	MP5	X	5.19	60
40	MP5	Z	3	60
41	MP4	X	6.04	60
42	MP4	Z	3.49	60
43	MP6	X	4.19	60
44	MP6	Z	2.42	60
45	MP6	X	4.19	60
46	MP6	Z	2.42	60
47	M5	X	7.1	12
48	M5	Z	4.1	12
49	MP7	X	15.36	90
50	MP7	Z	8.87	90
51	MP7	X	15.36	6
52	MP7	Z	8.87	6
53	MP8	X	15.36	90
54	MP8	Z	8.87	90
55	MP8	X	15.36	6
56	MP8	Z	8.87	6
57	MP9	X	6.58	90
58	MP9	Z	3.8	90
59	MP9	X	6.58	40
60	MP9	Z	3.8	40
61	MP8	X	4.73	68
62	MP8	Z	2.73	68
63	MP8	X	4.82	60
64	MP8	Z	2.79	60
65	MP7	X	5.39	60
66	MP7	Z	3.11	60
67	MP9	X	2.73	60
68	MP9	Z	1.58	60
69	MP9	X	2.73	60
70	MP9	Z	1.58	60

## Member Point Loads (BLC 26 : Ice Wind Load AZI 270)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	15.9	90
2	MP1	Z	0	90
3	MP1	X	15.9	6
4	MP1	Z	0	6
5	MP2	X	15.9	90
6	MP2	Z	0	90
7	MP2	X	15.9	6
8	MP2	Z	0	6
9	MP3	X	7	90
10	MP3	Z	0	90
11	MP3	X	7	40
12	MP3	Z	0	40
13	MP2	X	5.14	68
14	MP2	Z	0	68
15	MP2	X	5.42	60
16	MP2	Z	0	60
17	MP1	X	5.97	60
18	MP1	Z	0	60
19	MP3	X	2.57	60
20	MP3	Z	0	60
21	MP3	X	2.57	60
22	MP3	Z	0	60
23	M1	X	8.2	12
24	M1	Z	0	12
25	MP4	X	20.21	90
26	MP4	Z	0	90
27	MP4	X	20.21	6
28	MP4	Z	0	6
29	MP5	X	20.21	90
30	MP5	Z	0	90
31	MP5	X	20.21	6
32	MP5	Z	0	6
33	MP6	X	8.41	90
34	MP6	Z	0	90
35	MP6	X	8.41	40
36	MP6	Z	0	40
37	MP5	X	5.89	68
38	MP5	Z	0	68
39	MP5	X	5.77	60
40	MP5	Z	0	60
41	MP4	X	6.58	60
42	MP4	Z	0	60
43	MP6	X	3.94	60
44	MP6	Z	0	60
45	MP6	X	3.94	60
46	MP6	Z	0	60
47	M5	X	8.2	12
48	M5	Z	0	12
49	MP7	X	21.41	90
50	MP7	Z	0	90
51	MP7	X	21.41	6
52	MP7	Z	0	6
53	MP8	X	21.41	90
54	MP8	Z	0	90
55	MP8	X	21.41	6
56	MP8	Z	0	6
57	MP9	X	8.8	90

## Member Point Loads (BLC 26 : Ice Wind Load AZI 270) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
58	MP9	Z	0	90
59	MP9	X	8.8	40
60	MP9	Z	0	40
61	MP8	X	6.1	68
62	MP8	Z	0	68
63	MP8	X	5.87	60
64	MP8	Z	0	60
65	MP7	X	6.75	60
66	MP7	Z	0	60
67	MP9	X	4.32	60
68	MP9	Z	0	60
69	MP9	X	4.32	60
70	MP9	Z	0	60

## Member Point Loads (BLC 27 : Ice Wind Load AZI 300)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	15.36	90
2	MP1	Z	-8.87	90
3	MP1	X	15.36	6
4	MP1	Z	-8.87	6
5	MP2	X	15.36	90
6	MP2	Z	-8.87	90
7	MP2	X	15.36	6
8	MP2	Z	-8.87	6
9	MP3	X	6.58	90
10	MP3	Z	-3.8	90
11	MP3	X	6.58	40
12	MP3	Z	-3.8	40
13	MP2	X	4.73	68
14	MP2	Z	-2.73	68
15	MP2	X	4.82	60
16	MP2	Z	-2.79	60
17	MP1	X	5.39	60
18	MP1	Z	-3.11	60
19	MP3	X	2.73	60
20	MP3	Z	-1.58	60
21	MP3	X	2.73	60
22	MP3	Z	-1.58	60
23	M1	X	7.1	12
24	M1	Z	-4.1	12
25	MP4	X	14.52	90
26	MP4	Z	-8.38	90
27	MP4	X	14.52	6
28	MP4	Z	-8.38	6
29	MP5	X	14.52	90
30	MP5	Z	-8.38	90
31	MP5	X	14.52	6
32	MP5	Z	-8.38	6
33	MP6	X	6.3	90
34	MP6	Z	-3.64	90
35	MP6	X	6.3	40
36	MP6	Z	-3.64	40
37	MP5	X	4.58	68
38	MP5	Z	-2.65	68
39	MP5	X	4.76	60
40	MP5	Z	-2.75	60

## Member Point Loads (BLC 27 : Ice Wind Load AZI 300) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
41	MP4	X	5.27	60
42	MP4	Z	-3.04	60
43	MP6	X	2.46	60
44	MP6	Z	-1.42	60
45	MP6	X	2.46	60
46	MP6	Z	-1.42	60
47	M5	X	7.1	12
48	M5	Z	-4.1	12
49	MP7	X	20.13	90
50	MP7	Z	-11.62	90
51	MP7	X	20.13	6
52	MP7	Z	-11.62	6
53	MP8	X	20.13	90
54	MP8	Z	-11.62	90
55	MP8	X	20.13	6
56	MP8	Z	-11.62	6
57	MP9	X	8.15	90
58	MP9	Z	-4.7	90
59	MP9	X	8.15	40
60	MP9	Z	-4.7	40
61	MP8	X	5.56	68
62	MP8	Z	-3.21	68
63	MP8	X	5.21	60
64	MP8	Z	-3.01	60
65	MP7	X	6.07	60
66	MP7	Z	-3.51	60
67	MP9	X	4.25	60
68	MP9	Z	-2.45	60
69	MP9	X	4.25	60
70	MP9	Z	-2.45	60

## Member Point Loads (BLC 28 : Ice Wind Load AZI 330)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	10.71	90
2	MP1	Z	-18.54	90
3	MP1	X	10.71	6
4	MP1	Z	-18.54	6
5	MP2	X	10.71	90
6	MP2	Z	-18.54	90
7	MP2	X	10.71	6
8	MP2	Z	-18.54	6
9	MP3	X	4.4	90
10	MP3	Z	-7.62	90
11	MP3	X	4.4	40
12	MP3	Z	-7.62	40
13	MP2	X	3.05	68
14	MP2	Z	-5.28	68
15	MP2	X	2.93	60
16	MP2	Z	-5.08	60
17	MP1	X	3.37	60
18	MP1	Z	-5.84	60
19	MP3	X	2.16	60
20	MP3	Z	-3.74	60
21	MP3	X	2.16	60
22	MP3	Z	-3.74	60
23	M1	X	4.1	12

## Member Point Loads (BLC 28 : Ice Wind Load AZI 330) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
24	M1	Z	-7.1	12
25	MP4	X	8.06	90
26	MP4	Z	-13.96	90
27	MP4	X	8.06	6
28	MP4	Z	-13.96	6
29	MP5	X	8.06	90
30	MP5	Z	-13.96	90
31	MP5	X	8.06	6
32	MP5	Z	-13.96	6
33	MP6	X	3.54	90
34	MP6	Z	-6.12	90
35	MP6	X	3.54	40
36	MP6	Z	-6.12	40
37	MP5	X	2.59	68
38	MP5	Z	-4.49	68
39	MP5	X	2.72	60
40	MP5	Z	-4.71	60
41	MP4	X	3	60
42	MP4	Z	-5.19	60
43	MP6	X	1.32	60
44	MP6	Z	-2.28	60
45	MP6	X	1.32	60
46	MP6	Z	-2.28	60
47	M5	X	4.1	12
48	M5	Z	-7.1	12
49	MP7	X	10.71	90
50	MP7	Z	-18.54	90
51	MP7	X	10.71	6
52	MP7	Z	-18.54	6
53	MP8	X	10.71	90
54	MP8	Z	-18.54	90
55	MP8	X	10.71	6
56	MP8	Z	-18.54	6
57	MP9	X	4.4	90
58	MP9	Z	-7.62	90
59	MP9	X	4.4	40
60	MP9	Z	-7.62	40
61	MP8	X	3.05	68
62	MP8	Z	-5.28	68
63	MP8	X	2.93	60
64	MP8	Z	-5.08	60
65	MP7	X	3.37	60
66	MP7	Z	-5.84	60
67	MP9	X	2.16	60
68	MP9	Z	-3.74	60
69	MP9	X	2.16	60
70	MP9	Z	-3.74	60

## Member Point Loads (BLC 31 : Seismic Load Z)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	Z	-4.134	90
2	MP1	Z	-4.134	6
3	MP2	Z	-4.134	90
4	MP2	Z	-4.134	6
5	MP3	Z	-1.512	90
6	MP3	Z	-1.512	40

## Member Point Loads (BLC 31 : Seismic Load Z) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
7	MP2	Z	-5.175	68
8	MP2	Z	-6.21	60
9	MP1	Z	-6.095	60
10	MP3	Z	-1.218	60
11	MP3	Z	-1.218	60
12	M1	Z	-2.765	12
13	MP4	Z	-4.134	90
14	MP4	Z	-4.134	6
15	MP5	Z	-4.134	90
16	MP5	Z	-4.134	6
17	MP6	Z	-1.512	90
18	MP6	Z	-1.512	40
19	MP5	Z	-5.175	68
20	MP5	Z	-6.21	60
21	MP4	Z	-6.095	60
22	MP6	Z	-1.218	60
23	MP6	Z	-1.218	60
24	M5	Z	-2.765	12
25	MP7	Z	-4.134	90
26	MP7	Z	-4.134	6
27	MP8	Z	-4.134	90
28	MP8	Z	-4.134	6
29	MP9	Z	-1.512	90
30	MP9	Z	-1.512	40
31	MP8	Z	-5.175	68
32	MP8	Z	-6.21	60
33	MP7	Z	-6.095	60
34	MP9	Z	-1.218	60
35	MP9	Z	-1.218	60

## Member Point Loads (BLC 32 : Seismic Load X)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	-4.134	90
2	MP1	X	-4.134	6
3	MP2	X	-4.134	90
4	MP2	X	-4.134	6
5	MP3	X	-1.512	90
6	MP3	X	-1.512	40
7	MP2	X	-5.175	68
8	MP2	X	-6.21	60
9	MP1	X	-6.095	60
10	MP3	X	-1.218	60
11	MP3	X	-1.218	60
12	M1	X	-2.765	12
13	MP4	X	-4.134	90
14	MP4	X	-4.134	6
15	MP5	X	-4.134	90
16	MP5	X	-4.134	6
17	MP6	X	-1.512	90
18	MP6	X	-1.512	40
19	MP5	X	-5.175	68
20	MP5	X	-6.21	60
21	MP4	X	-6.095	60
22	MP6	X	-1.218	60
23	MP6	X	-1.218	60
24	M5	X	-2.765	12

## Member Point Loads (BLC 32 : Seismic Load X) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
25	MP7	X	-4.134	90
26	MP7	X	-4.134	6
27	MP8	X	-4.134	90
28	MP8	X	-4.134	6
29	MP9	X	-1.512	90
30	MP9	X	-1.512	40
31	MP8	X	-5.175	68
32	MP8	X	-6.21	60
33	MP7	X	-6.095	60
34	MP9	X	-1.218	60
35	MP9	X	-1.218	60

## Member Distributed Loads (BLC 14 : Distr. Wind Load Z)

	Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/f...	Start Location[in, %]	End Location[in, %]
1	M1	SZ	-88.752	-88.752	0	%100
2	M2	SZ	-88.752	-88.752	0	%100
3	M3	SZ	-88.752	-88.752	0	%100
4	M4	SZ	-88.752	-88.752	0	%100
5	M5	SZ	-88.752	-88.752	0	%100
6	M6	SZ	-88.752	-88.752	0	%100
7	M7	SZ	-53.251	-53.251	0	%100
8	MP1	SZ	-53.251	-53.251	0	%100
9	MP2	SZ	-53.251	-53.251	0	%100
10	MP3	SZ	-53.251	-53.251	0	%100
11	M11	SZ	-53.251	-53.251	0	%100
12	M15	SZ	-53.251	-53.251	0	%100
13	M19	SZ	-88.752	-88.752	0	%100
14	M20	SZ	-88.752	-88.752	0	%100
15	M21	SZ	-88.752	-88.752	0	%100
16	M22	SZ	-88.752	-88.752	0	%100
17	M23	SZ	-88.752	-88.752	0	%100
18	M24	SZ	-88.752	-88.752	0	%100
19	M25	SZ	-88.752	-88.752	0	%100
20	M26	SZ	-88.752	-88.752	0	%100
21	M27	SZ	-88.752	-88.752	0	%100
22	MP7	SZ	-53.251	-53.251	0	%100
23	MP8	SZ	-53.251	-53.251	0	%100
24	MP9	SZ	-53.251	-53.251	0	%100
25	MP4	SZ	-53.251	-53.251	0	%100
26	MP5	SZ	-53.251	-53.251	0	%100
27	MP6	SZ	-53.251	-53.251	0	%100

## Member Distributed Loads (BLC 15 : Distr. Wind Load X)

	Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/f...	Start Location[in, %]	End Location[in, %]
1	M1	SX	-88.752	-88.752	0	%100
2	M2	SX	-88.752	-88.752	0	%100
3	M3	SX	-88.752	-88.752	0	%100
4	M4	SX	-88.752	-88.752	0	%100
5	M5	SX	-88.752	-88.752	0	%100
6	M6	SX	-88.752	-88.752	0	%100
7	M7	SX	-53.251	-53.251	0	%100
8	MP1	SX	-53.251	-53.251	0	%100
9	MP2	SX	-53.251	-53.251	0	%100
10	MP3	SX	-53.251	-53.251	0	%100
11	M11	SX	-53.251	-53.251	0	%100

### Member Distributed Loads (BLC 15 : Distr. Wind Load X) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft.F.psf]	End Magnitude[lb/f...	Start Location[in.%]	End Location[in.%]
12	M15	SX	-53.251	-53.251	0	%100
13	M19	SX	-88.752	-88.752	0	%100
14	M20	SX	-88.752	-88.752	0	%100
15	M21	SX	-88.752	-88.752	0	%100
16	M22	SX	-88.752	-88.752	0	%100
17	M23	SX	-88.752	-88.752	0	%100
18	M24	SX	-88.752	-88.752	0	%100
19	M25	SX	-88.752	-88.752	0	%100
20	M26	SX	-88.752	-88.752	0	%100
21	M27	SX	-88.752	-88.752	0	%100
22	MP7	SX	-53.251	-53.251	0	%100
23	MP8	SX	-53.251	-53.251	0	%100
24	MP9	SX	-53.251	-53.251	0	%100
25	MP4	SX	-53.251	-53.251	0	%100
26	MP5	SX	-53.251	-53.251	0	%100
27	MP6	SX	-53.251	-53.251	0	%100

### Member Distributed Loads (BLC 16 : Ice Weight)

	Member Label	Direction	Start Magnitude[lb/ft.F.psf]	End Magnitude[lb/f...	Start Location[in.%]	End Location[in.%]
1	M1	Y	-12.425	-12.425	0	%100
2	M2	Y	-13.046	-13.046	0	%100
3	M3	Y	-12.425	-12.425	0	%100
4	M4	Y	-13.046	-13.046	0	%100
5	M5	Y	-12.425	-12.425	0	%100
6	M6	Y	-13.046	-13.046	0	%100
7	M7	Y	-8.645	-8.645	0	%100
8	MP1	Y	-6.674	-6.674	0	%100
9	MP2	Y	-6.674	-6.674	0	%100
10	MP3	Y	-6.674	-6.674	0	%100
11	M11	Y	-8.645	-8.645	0	%100
12	M15	Y	-8.645	-8.645	0	%100
13	M19	Y	-12.425	-12.425	0	%100
14	M20	Y	-12.425	-12.425	0	%100
15	M21	Y	-12.425	-12.425	0	%100
16	M22	Y	-7.469	-7.469	0	%100
17	M23	Y	-7.469	-7.469	0	%100
18	M24	Y	-7.469	-7.469	0	%100
19	M25	Y	-7.469	-7.469	0	%100
20	M26	Y	-7.469	-7.469	0	%100
21	M27	Y	-7.469	-7.469	0	%100
22	MP7	Y	-6.674	-6.674	0	%100
23	MP8	Y	-6.674	-6.674	0	%100
24	MP9	Y	-6.674	-6.674	0	%100
25	MP4	Y	-6.674	-6.674	0	%100
26	MP5	Y	-6.674	-6.674	0	%100
27	MP6	Y	-6.674	-6.674	0	%100

### Member Distributed Loads (BLC 29 : Distr. Ice Wind Load Z)

	Member Label	Direction	Start Magnitude[lb/ft.F.psf]	End Magnitude[lb/f...	Start Location[in.%]	End Location[in.%]
1	M1	SZ	-11.009	-11.009	0	%100
2	M2	SZ	-10.79	-10.79	0	%100
3	M3	SZ	-11.009	-11.009	0	%100
4	M4	SZ	-10.79	-10.79	0	%100
5	M5	SZ	-11.009	-11.009	0	%100
6	M6	SZ	-10.79	-10.79	0	%100
7	M7	SZ	-13.291	-13.291	0	%100



### Member Distributed Loads (BLC 29 : Distr. Ice Wind Load Z) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft.F.psf]	End Magnitude[lb/f...	Start Location[in.%]	End Location[in.%]
8	MP1	SZ	-16.127	-16.127	0	%100
9	MP2	SZ	-16.127	-16.127	0	%100
10	MP3	SZ	-16.127	-16.127	0	%100
11	M11	SZ	-13.291	-13.291	0	%100
12	M15	SZ	-13.291	-13.291	0	%100
13	M19	SZ	-11.009	-11.009	0	%100
14	M20	SZ	-11.009	-11.009	0	%100
15	M21	SZ	-11.009	-11.009	0	%100
16	M22	SZ	-14.712	-14.712	0	%100
17	M23	SZ	-14.712	-14.712	0	%100
18	M24	SZ	-14.712	-14.712	0	%100
19	M25	SZ	-14.712	-14.712	0	%100
20	M26	SZ	-14.712	-14.712	0	%100
21	M27	SZ	-14.712	-14.712	0	%100
22	MP7	SZ	-16.127	-16.127	0	%100
23	MP8	SZ	-16.127	-16.127	0	%100
24	MP9	SZ	-16.127	-16.127	0	%100
25	MP4	SZ	-16.127	-16.127	0	%100
26	MP5	SZ	-16.127	-16.127	0	%100
27	MP6	SZ	-16.127	-16.127	0	%100

### Member Distributed Loads (BLC 30 : Distr. Ice Wind Load X)

	Member Label	Direction	Start Magnitude[lb/ft.F.psf]	End Magnitude[lb/f...	Start Location[in.%]	End Location[in.%]
1	M1	SX	-11.009	-11.009	0	%100
2	M2	SX	-10.79	-10.79	0	%100
3	M3	SX	-11.009	-11.009	0	%100
4	M4	SX	-10.79	-10.79	0	%100
5	M5	SX	-11.009	-11.009	0	%100
6	M6	SX	-10.79	-10.79	0	%100
7	M7	SX	-13.291	-13.291	0	%100
8	MP1	SX	-16.127	-16.127	0	%100
9	MP2	SX	-16.127	-16.127	0	%100
10	MP3	SX	-16.127	-16.127	0	%100
11	M11	SX	-13.291	-13.291	0	%100
12	M15	SX	-13.291	-13.291	0	%100
13	M19	SX	-11.009	-11.009	0	%100
14	M20	SX	-11.009	-11.009	0	%100
15	M21	SX	-11.009	-11.009	0	%100
16	M22	SX	-14.712	-14.712	0	%100
17	M23	SX	-14.712	-14.712	0	%100
18	M24	SX	-14.712	-14.712	0	%100
19	M25	SX	-14.712	-14.712	0	%100
20	M26	SX	-14.712	-14.712	0	%100
21	M27	SX	-14.712	-14.712	0	%100
22	MP7	SX	-16.127	-16.127	0	%100
23	MP8	SX	-16.127	-16.127	0	%100
24	MP9	SX	-16.127	-16.127	0	%100
25	MP4	SX	-16.127	-16.127	0	%100
26	MP5	SX	-16.127	-16.127	0	%100
27	MP6	SX	-16.127	-16.127	0	%100

Site Name:	9/5/2019
Client:	Smartlink
Carrier:	AT&T
Engineer:	IP
Date:	9/5/2019
Job #:	1106-A0001-B
Site #	CTL05725

<b>Code:</b>	LRFD
<b>Bolt Diameter</b>	0.625
<b>Bolt Grade:</b>	A307
<b>Threads Excluded?:</b>	N
<b>Axial (lbs):</b>	9371.07
<b>Shear (lbs):</b>	3404.37

<b>Bolt Info:</b>	
Yield Strength ( $F_{yb}$ )	36.0 ksi
Ultimate Strength ( $F_{ub}$ )	60.0 ksi
Threads/in ( $n$ )	11
Gross Area ( $A_{gb}$ )	0.307 in <sup>2</sup>
Net Area ( $A_{nb}$ )	0.226 in <sup>2</sup>

Bolt Capacity (Assumed 5/8" A307 threaded rods)				
	Ult Load / Bolt	Factored Load ( $\phi=0.75$ )	# of Bolts	Factor Joint Capacity
Axial (lb)	13560.1	10170.1	2	20340
Shear(lb)	8283.5	6212.6	2	12425

Interaction Check	
$T / \phi T_n$	46.1%
$V / \phi V_n$	27.4%
$\leq 1.0$	28.7%
	OK