



Colliers Engineering & Design
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Replacement Antenna Mount Analysis Report and PMI Requirements

Mount Analysis-R
SMART Tool Project #: 10302468
Colliers Engineering & Design Project #: 25777026

June 12, 2025

Site Information

Site ID: 5000246390-VZW / OLD LYME SOUTH CT
Site Name: OLD LYME SOUTH CT
Carrier Name: Verizon Wireless
Address: 125 Mile Creek Road
Old Lyme, Connecticut 06371
New London County
Latitude: 41.305653°
Longitude: -72.297361°

Structure Information

Tower Type: 170-Ft Monopole
Mount Type: 12.50-Ft Platform

FUZE ID # 16272021

Analysis Results

Platform: **42.0% Pass w/ Mount Replacement***
(1-Site Pro 1 RMQP-496-HK)

***Antennas and equipment to be installed in compliance with PMI Requirements of this mount analysis.**

***Contractor PMI Requirements:

Included at the end of this MA report

Available & Submitted via portal at <https://pmi.vzwsmart.com>

**For additional questions and support, please reach out to:
pmisupport@colliersengineering.com**

Report Prepared By: Chris Lemkan



Executive Summary:

The objective of this report is to determine the capacity of the proposed antenna support mount at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards. The proposed mount was assumed to be installed properly to the existing tower per the manufacturer's instructions. Colliers Engineering & Design cannot verify that the proposed mount will fit properly and is not liable for any fit-up issues during installation.

This analysis is inclusive of the mount structure only and does not address the structural capacity of the supporting structure. This mounting frame was not analyzed as an anchor attachment point for fall protection. All climbing activities are required to have a fall protection plan completed by a competent person.

Sources of Information:

Document Type	Remarks
<i>Radio Frequency Data Sheet (RFDS)</i>	<i>Verizon RFDS, Site ID: 324614, dated: June 2, 2025</i>
<i>Mount Specification</i>	<i>Site Pro 1, P/N: RMQP-496-HK</i>
<i>Previous Mount Analysis Report</i>	<i>Colliers Engineering & Design, Project #: 25777026, dated: May 21, 2025</i>

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H 2022 Connecticut State Building Code (CSBC), Effective October 1, 2022*
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 130 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.00 in Risk Category: II Exposure Category: C Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, K_e : 0.999
Seismic Parameters:	S_s : 0.201 g S_1 : 0.053 g
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph Maintenance Load, L_v : 250 lbs. Maintenance Load, L_m : 500 lbs.
Analysis Software:	RISA-3D (V22)

Final Loading Configuration:

The following equipment has been considered for the analysis of the mount:

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
160.00	161.00	6	JMA Wireless	MX06FHG865-HG	Added
		3	Samsung	MT6413-77A	
		3	Samsung	RF4801d-25A	
		3	Samsung	RF4461d-13A	
		1	Raycap	3x6 Hybrid/NGOVP	
		2	Raycap	RVZDC-3315-PF-48	Retained

It is acceptable to install up to three (3) OVPs with dimensions not to exceed 30" x 17" x 13" and 40 lbs. at any location, other than the mount face, without affecting the structural capacity of the mount. If OVP units are installed on the mount face, a mount re-analysis may be required unless replacing an existing OVP.

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Colliers Engineering & Design and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Colliers Engineering & Design to verify deviation will not adversely impact the analysis.
2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.
3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Colliers Engineering & Design is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
- Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - HSS (Rectangular) ASTM 500 (Gr. B-46)
 - Pipe ASTM A53 (Gr. B-35)
 - Threaded Rod F1554 (Gr. 36)
 - Bolts ASTM A325

Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Colliers Engineering & Design.

Analysis Results:

Component	Utilization %	Pass/Fail
Standoff Horizontal	14.5 %	Pass
Platform Crossmember	10.9 %	Pass
Corner Plate	18.8 %	Pass
Grating Support	15.0 %	Pass
Cross Arm Plate	36.7 %	Pass
Face Horizontal	10.5 %	Pass
Mount Pipe	42.0 %	Pass
Support Rail	31.9 %	Pass
Kicker	4.0 %	Pass
Support Rail Corner	40.4 %	Pass
Mount Connection	15.6 %	Pass
Mount-Tower Interaction	4.4 %	Pass

Structure Rating – (Controlling Utilization of all Components)	42.0%
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Mount Connection Envelope Reactions:

Connection Description	Elev. AGL (Ft)	Node Label	Envelope Wind Reactions				Envelope Wind + Ice Reactions			
			Axial (Lbs)	Lateral (Lbs)	Moment (K-Ft)	Torsion (K-Ft)	Axial (Lbs)	Lateral (Lbs)	Moment (K-Ft)	Torsion (K-Ft)
Sector A Standoff	160.0	N1	707	4645	0.586	1.786	1077	3045	1.074	0.440
Sector C Standoff	160.0	N30	723	4828	0.577	1.686	1092	3035	1.090	0.408
Sector B Standoff	160.0	N58	697	4651	0.583	1.769	1058	3059	1.063	0.439
Sector C Reinforcement	157.5	N179	1479	2441	0.000	0.000	1544	2529	0.000	0.000
Sector B Reinforcement	157.5	N180	1448	2389	0.000	0.000	1558	2552	0.000	0.000
Sector A Reinforcement	157.5	N200	1446	2386	0.000	0.000	1544	2529	0.000	0.000

Notes:

- Axial loads act along the axis of the tower
- Lateral reactions act perpendicular to the tower
- Moment loads introduce bending moment to the tower
- Torsion loads introduce twisting moment to the tower
- Batch solutions by individual load cases are included at the end of this document

Mount Steel (EPA)a per ANSI/TIA-222-H Section 2.6.11.2:

Ice Thickness (In)	Mount Pipes Excluded		Mount Pipes Included	
	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)
0	28.1	28.1	45.2	45.2
0.5	37.8	37.8	62.1	62.1
1	46.0	46.0	77.5	77.5

Notes:

- (EPA)a values listed above may be used in the absence of more precise information
- (EPA)a values in the table above include 3 sector(s).
- Ka factors included in (EPA)a calculations

Requirements:

The proposed antenna mount is **SUFFICIENT** for the final loading configuration (attachment 2) upon completion of the mount replacement (attachment 3) and requirements below.

Refer to document at the end of this form for special instructions. Contact EOR if special instructions are not available.

ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other, if required. Separate review fees will apply.

Attachments:

1. **Contractor Required Post Installation Inspection (PMI) Report Deliverables**
2. Antenna Placement Diagrams
3. Mount Manufacturer Drawings
4. Existing Mount Photos
5. Analysis Calculations
6. Mount-Tower Interaction

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – **New Mount Passing MA**

Electronic pdf version of this can be downloaded at <https://pmi.vzwsmart.com>

For additional questions and support, please reach out to pmisupport@colliersengineering.com

MDG #: 5000246390

SMART Project #: 10302468

Fuze Project ID: 16272021

Purpose – to provide SMART Tool structural vendor the proper documentation in order to complete the required Mount Desktop review of the Post Modification Inspection Report.

- Contractor is responsible for making certain the photos provided as noted below provide confirmation that the installation was completed in accordance with this Passing Mount Analysis.
- Contractor shall relay any data that can impact the performance of the mount, this includes safety issues.

Base Requirements:

- If installation will cause damage to the structure, the climbing facility, or safety climb if present or any installed system, SMART Tool vendor to be notified prior to install. Any special photos outside of the standard requirements will be indicated on the drawings.
- Provide “as built mount drawings” showing contractor’s name, contact information, preparer’s signature, and date. Any deviations from the drawings (Proposed modification) shall be shown. NOTE: If loading is different than what is conveyed in the passing mount analysis (MA) contact the SMART Tool vendor immediately.
- Each photo should be time and date stamped.
- Photos should be high resolution.
- Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope. If there is conflict, contact the SMART Tool engineer for recommendations.
- The PMI can be accessed at the following portal: <https://pmi.vzwsmart.com>

Photo Requirements:

- *Photos taken at ground level*
 - Photo of Gate Signs showing the tower owner, site name, and number.
 - Overall tower structure after installation.
 - Photos of the mount after installation; if the mounts are at different rad elevations, pictures must be provided for all elevations that equipment was installed.
- *Photos taken at Mount Elevation*
 - Photos showing the safety climb wire rope above and below the mount prior to installation.
 - Photos showing the climbing facility and safety climb if present.
 - Photos showing each individual sector after installation of mounts. Each entire sector shall be in one photo to show the interconnection of members.

- These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.
- Photos that show the model number of each antenna and piece of equipment installed per sector.
- Photos of each installed mount; pictures shall also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
- Photos showing the installed mount elevation.

Antenna & Equipment Placement and Geometry Confirmation:

- The contractor shall certify that the antenna & equipment placement and geometry is in accordance with the sketch and table as included in the mount analysis and noted below.

☐ The contractor certifies that the photos support and the equipment on the mount is as depicted on the sketch and table included in this form and with the mount analysis provided.

OR

☐ The contractor notes that the equipment on the mount is not in accordance with the sketch and has noted the differences below and provided photo documentation of any alterations.

Special Instructions / Validation as required from the MA or any other information the contractor deems necessary to share that was identified:

Issue:

Refer to document at the end of this form for special instructions. Contact EOR if special instructions are not available.

Response:

Special Instruction Confirmation:

☐ The contractor has read and acknowledges the above special instructions.

Contractor certifies that the climbing facility / safety climb was not damaged prior to starting work:

☐ Yes ☐ No

Contractor certifies no new damage created during the current installation:

☐ Yes ☐ No

Contractor to certify the condition of the safety climb and verify no damage when leaving the site:

☐ Safety Climb in Good Condition

☐ Safety Climb Damaged

Comments:

New Mount Certification:

- ☐ The contractor certifies that the New Mount installed is as specified in the Passing Mount Analysis.
- ☐ The contractor notes that the New Mount installed is not as specified and engineering approval was received for the New Mount installed.

Contractor to provide measurement from top of the highest equipment/steel to the bottom of the lowest equipment/steel by documenting it using the most appropriate illustration below along with supporting photos (highest and lowest measurement across all sectors):

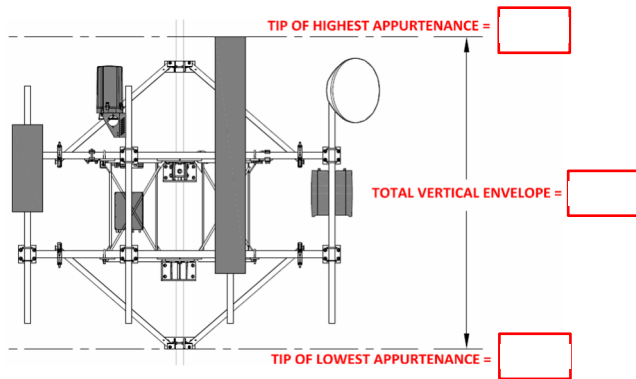


Illustration #1

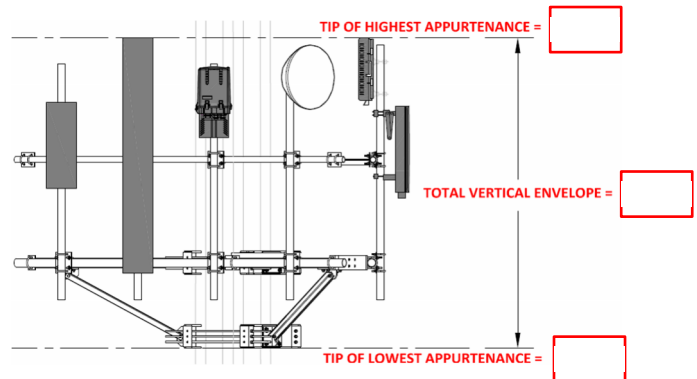


Illustration #2

Certifying Individual:

Company:	
Employee Name:	
Contact Phone:	
Email:	
Date:	



MDG #: **5000246390**

Site Name: **OLD LYME SOUTH CT**

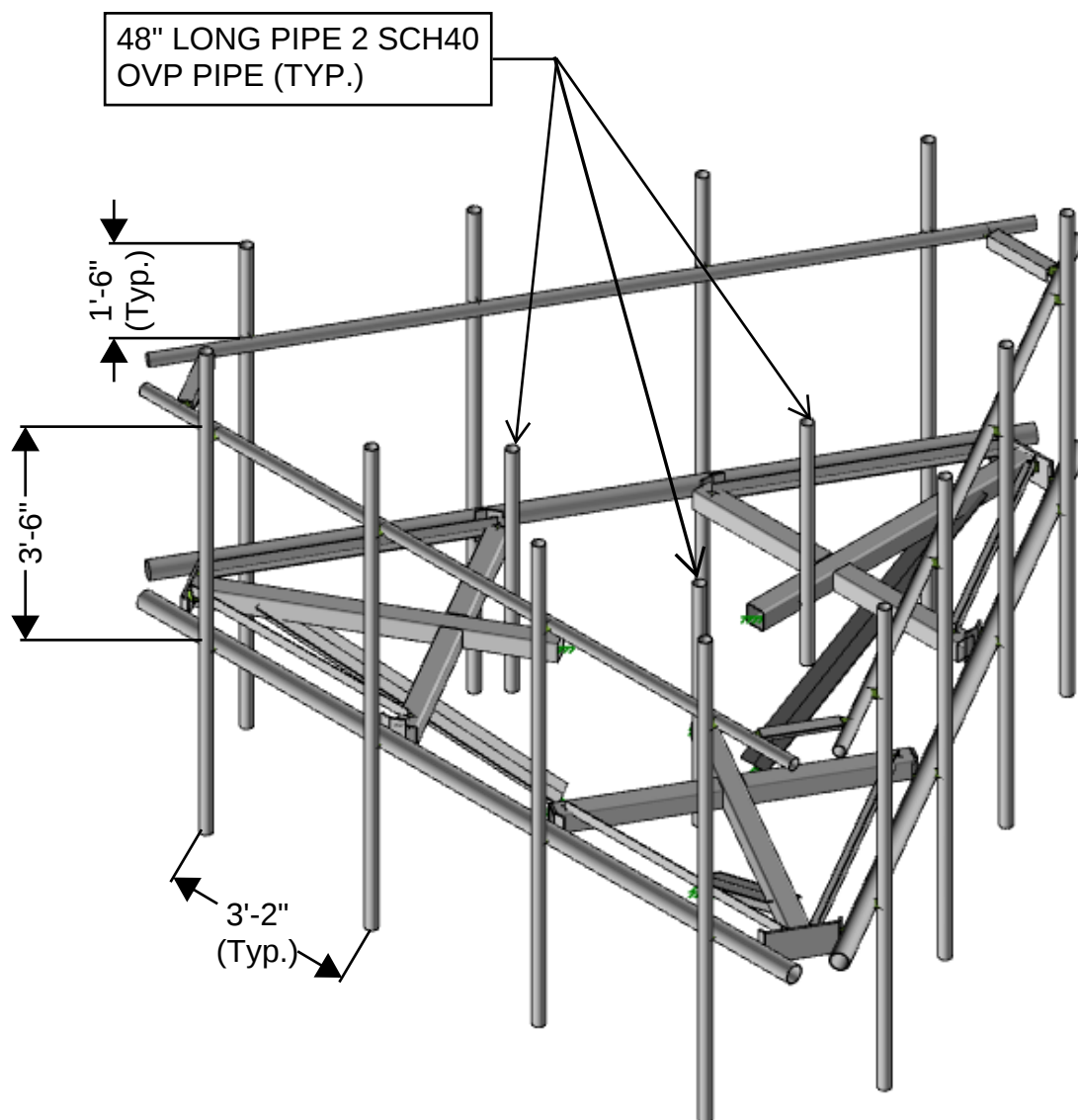
Fuze ID #: **16272021**

Colliers Engineering & Design Project #: **25777026**

PMI INSTRUCTIONS:

1. Contractor shall install the proposed mount model *RMQP-496-HK* mount in accordance with manufacturer specifications and the Mount Replacement Sketch. Contact EOR if these documents are not available
2. Contractor shall install included kicker kit 30" below platform collar. Refer to Mount Replacement Sketch
3. Threaded rod from proposed kits shall be trimmed to extend no more than 3" beyond the lock nut. Treat all cut ends with (2) coats of Zinga or Zinc Kote
4. Contractor shall install retained and proposed OVPs on three new 48" long PIPE 2 SCH 40 OVP pipes on every standoff horizontal.
5. Contractor shall install mount pipes with vertical offsets as shown in the Mount Replacement Sketch.
6. Contractor shall inspect climbing facilities and safety climb and ensure they are in good condition. Contractor shall install safety climb wire rope guides in locations where wire rope is contacting the mount or mount-to-tower connection steel. Wire brush clean any observed corrosion and protect with two (2) coats of Zinga or Zinc Kote. Contractor shall provide photos of wire rope guide installation as part of PMI documents. Contact EOR if additional guidance is required

Mount Replacement Sketch



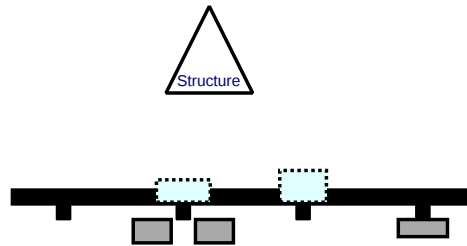
Sector: **A**
 Structure Type: Monopole
 Mount Elev: 160.00

10301276

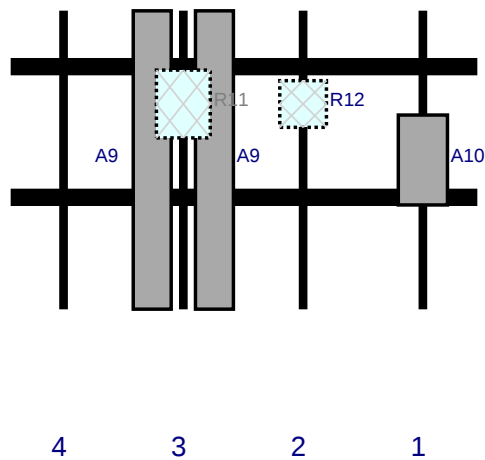
6/12/2025

Page: 1

Plan View



Front View - Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
OVP	3x6 Hybrid/NGOVP	29.5	16.5		Member					Added	
OVP1	RVZDC-3315-PF-48	29.5	16.5		Member					Retained	
A10	MT6413-77A	28.9	15.8	132.5	1	a	Front	48	0	Added	
R12	RF4461d-13A	15	15	94	2	a	Behind	30	0	Added	
A9	MX06FHG865-HG	95.9	12.2	55.5	3	a	Front	48	-10	Added	
A9	MX06FHG865-HG	95.9	12.2	55.5	3	b	Front	48	10	Added	
R11	RF4801d-25A	21.8	17.3	55.5	3	a	Behind	30	0	Added	

Sector: **B**
 Structure Type: Monopole
 Mount Elev: 160.00

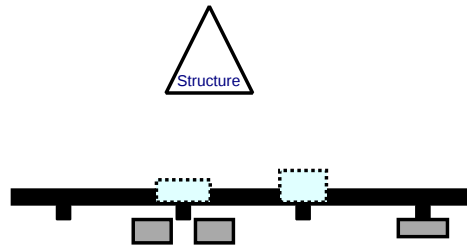
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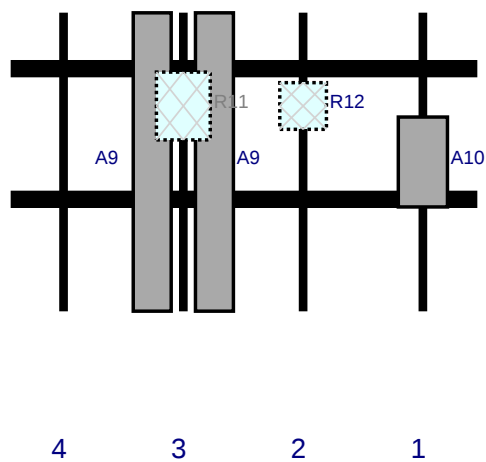


Page: 2

Plan View



Front View - Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A10	MT6413-77A	28.9	15.8	132.5	1	a	Front	48	0	Added	
R12	RF4461d-13A	15	15	94	2	a	Behind	30	0	Added	
A9	MX06FHG865-HG	95.9	12.2	55.5	3	a	Front	48	-10	Added	
A9	MX06FHG865-HG	95.9	12.2	55.5	3	b	Front	48	10	Added	
R11	RF4801d-25A	21.8	17.3	55.5	3	a	Behind	30	0	Added	

Sector: **C**
 Structure Type: Monopole
 Mount Elev: 160.00

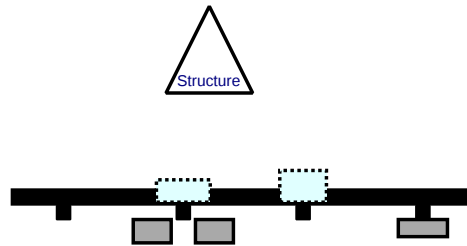
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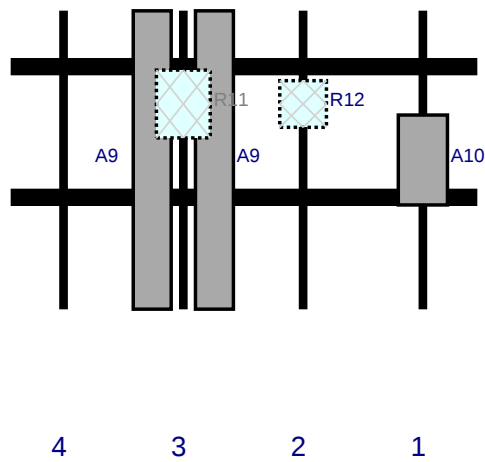


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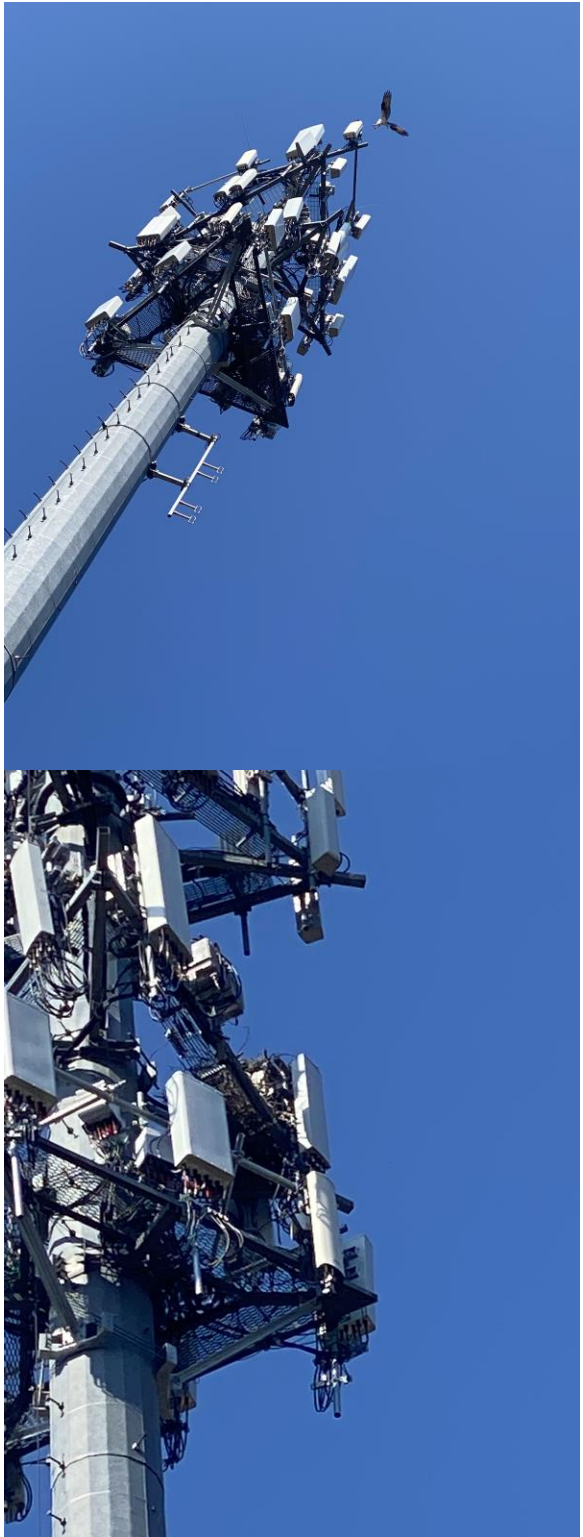
Plan View

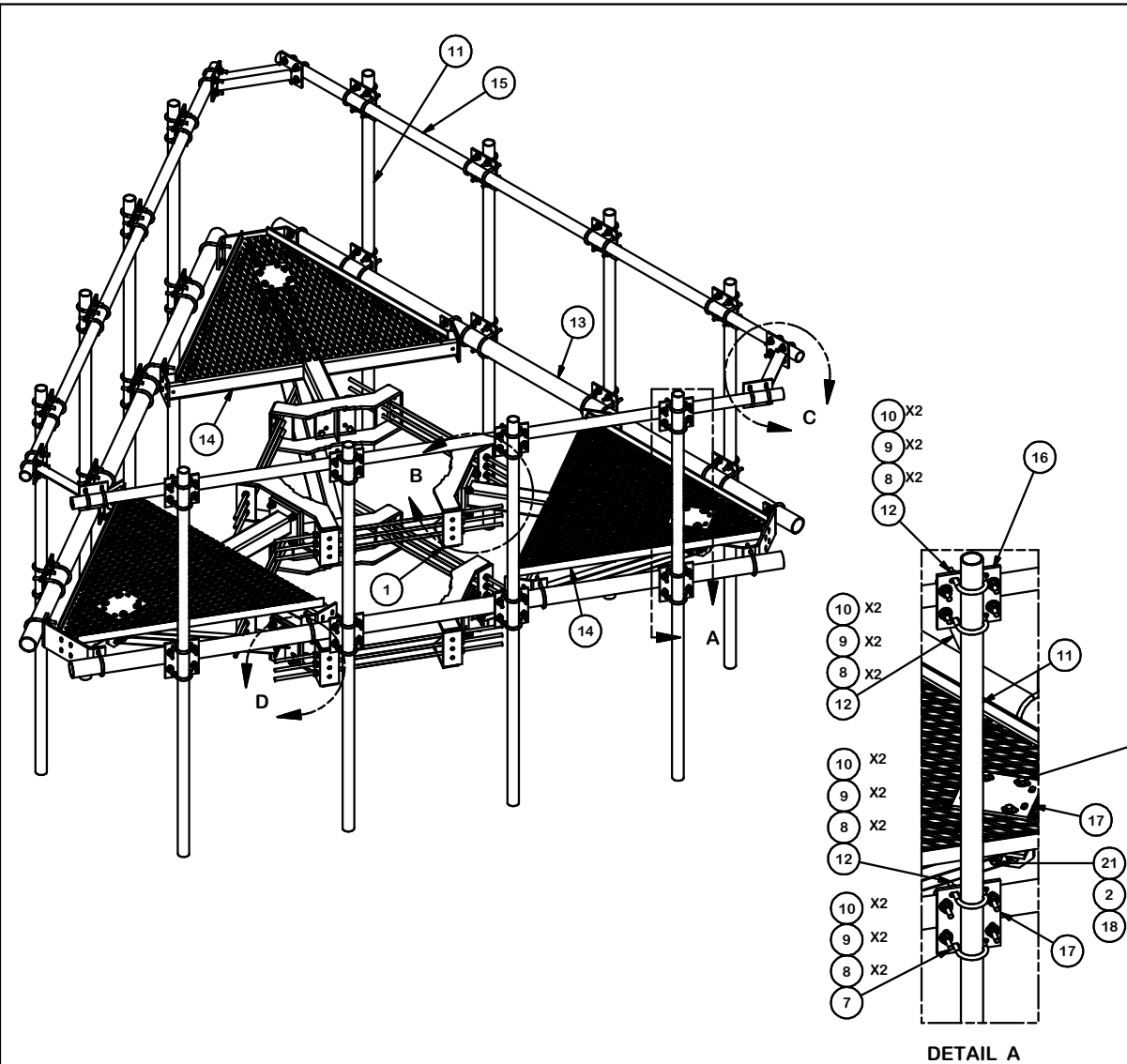


Front View - Looking at Structure

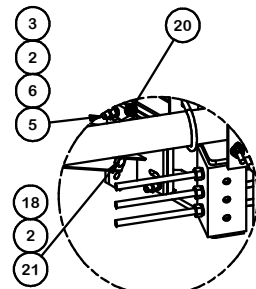
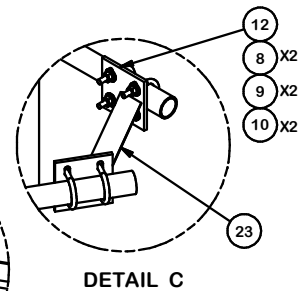
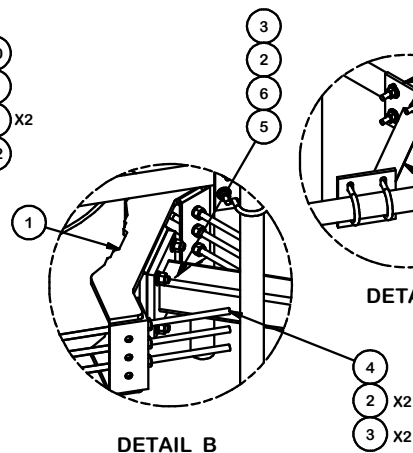
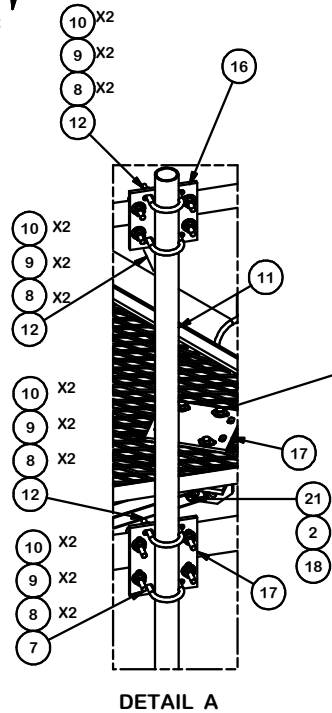


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A10	MT6413-77A	28.9	15.8	132.5	1	a	Front	48	0	Added	
R12	RF4461d-13A	15	15	94	2	a	Behind	30	0	Added	
A9	MX06FHG865-HG	95.9	12.2	55.5	3	a	Front	48	-10	Added	
A9	MX06FHG865-HG	95.9	12.2	55.5	3	b	Front	48	10	Added	
R11	RF4801d-25A	21.8	17.3	55.5	3	a	Behind	30	0	Added	





PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	6	X-LWRM	RING MOUNT WELDMENT		68.81	412.85
2	66	G58LW	5/8" HDG LOCKWASHER		0.03	1.72
3	60	A58NUT	5/8" HDG A325 HEX NUT		0.13	7.79
4	18	G58R-24	5/8" x 24" THREADED ROD (HDG.)		2.09	37.63
4	18	G58R-48	5/8" x 48" THREADED ROD (HDG.)		4.18	75.27
5	24	A58234	5/8" x 2-3/4" HDG A325 HEX BOLT	2 3/4 in	0.36	8.54
6	24	A58FW	5/8" HDG A325 FLATWASHER		0.03	0.82
7	36	X-UB1306	1/2" X 3-5/8" X 6" X 3" U-BOLT (HDG.)		0.83	29.82
8	264	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	9.00
9	252	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	3.50
10	252	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	18.05
11	12	P296	2-3/8" X 96" SCH. 40 GALVANIZED PIPE	96 in	30.76	369.08
12	84	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.63	52.51
13	3	P3150	3-1/2" X 150" (3" SCH 40) GALVANIZED PIPE	150 in	94.80	284.40
14	3	X-SV196	LOW PROFILE PLATFORM CORNER		212.10	636.31
15	3	P2150	2-3/8" O.D. X 150" SCH 40 GALVANIZED PIPE	150 in	45.77	137.31
16	12	SCX2	CROSSOVER PLATE	7 in	4.80	57.56
17	15	SCX4	CROSSOVER PLATE	8 1/2 in	6.02	90.32
18	6	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	0.78
19	6	X-253993	PLATFORM REINFORCEMENT KIT ANGLE	52 25/32 in	14.33	85.99
20	6	X-TBW	T-BRACKET WELDMENT		13.60	81.60
21	6	G5802	5/8" x 2" HDG HEX BOLT GR5		0.27	1.62
22	12	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	5 1/2 in	0.41	4.91
23	3	X-AHCP	ANGLE HANDRAIL CORNER PLATE		12.92	38.76
TOTAL WT. #						2445.81

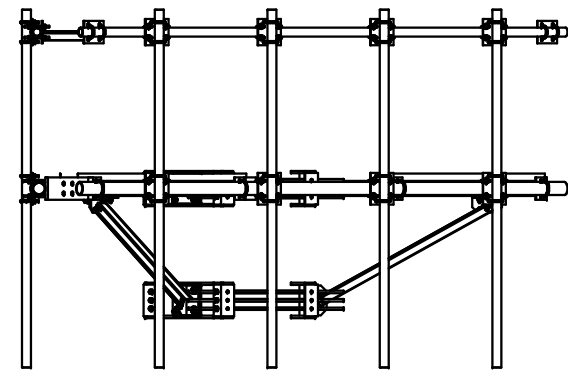
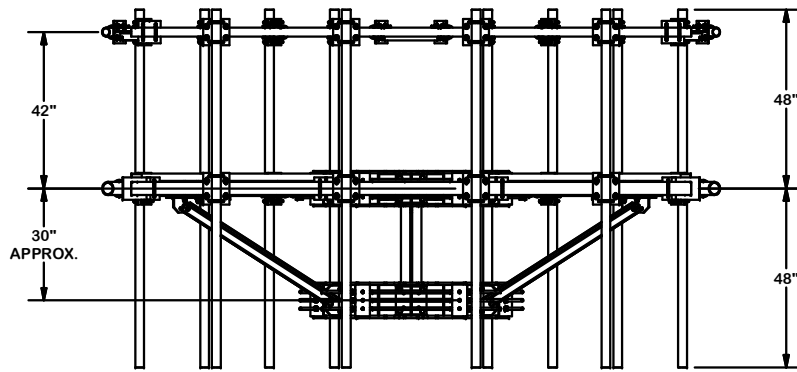
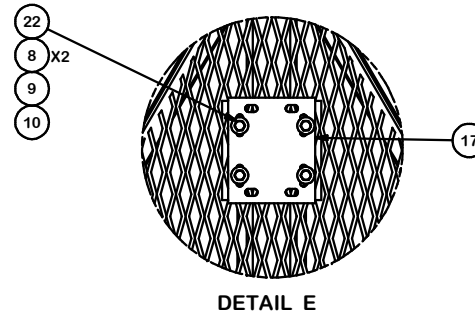
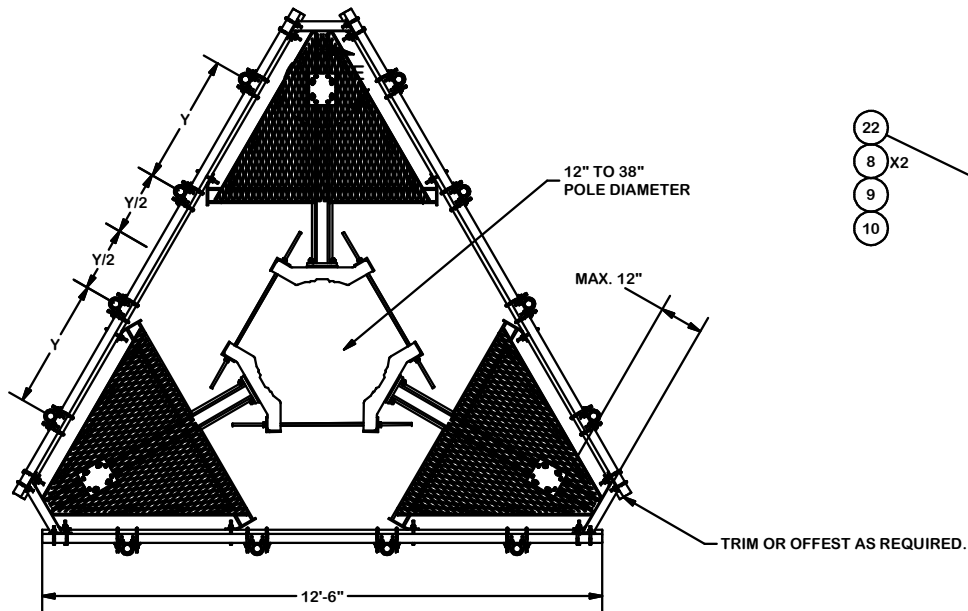


REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
B	RELOCATED MOUNT PIPE POSITIONS	4488	JET	5/23/2021
A	CHANGED X-253992 TO X-TBW	4488	CEK	9/20/2018
REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
REVISION HISTORY				

TOLERANCE NOTES	
TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE: SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$) DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES BENDS ARE $\pm 1/2$ DEGREE ALL OTHER MACHINING ($\pm 0.030"$) ALL OTHER ASSEMBLY ($\pm 0.060"$)	
PROPRIETARY NOTE: THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.	

DESCRIPTION	
12' 6" LOW PROFILE PLATFORM WITH TWELVE 2-3/8" ANTENNA MOUNTING PIPES, AND SUPPORT RAIL	
CPD NO. 4488	DRAWN BY CEK 7/14/2014
CLASS 81	SUB 02
DRAWING USAGE CUSTOMER	CHECKED BY BMC 7/14/2014

 A valmont COMPANY		Locations: New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX
Engineering Support Team: 1-888-753-7446		
PART NO.	RMQP-496-HK	
DWG. NO.	RMQP-496-HK	



TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
 SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$)
 DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
 LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
 BENDS ARE $\pm 1/2$ DEGREE
 ALL OTHER MACHINING ($\pm 0.030"$)
 ALL OTHER ASSEMBLY ($\pm 0.060"$)

PROPRIETARY NOTE:
 THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION

12' 6" LOW PROFILE PLATFORM
 WITH TWELVE 2-3/8" ANTENNA MOUNTING
 PIPES, AND SUPPORT RAIL

CPD NO.	DRAWN BY	ENG. APPROVAL
4488	CEK 7/14/2014	
CLASS	DRAWING USAGE	CHECKED BY
81 02	CUSTOMER	BMC 7/14/2014

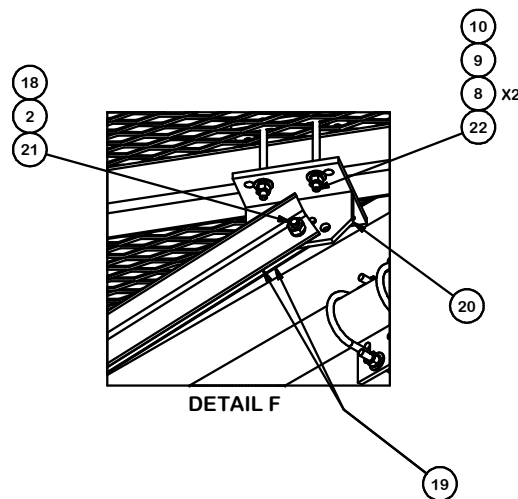
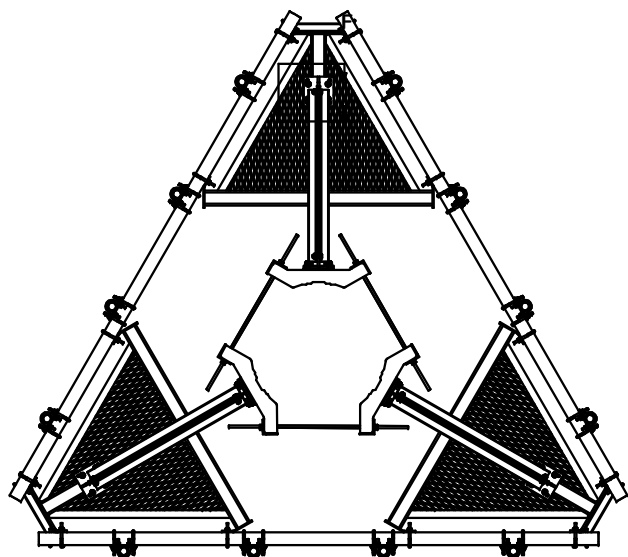
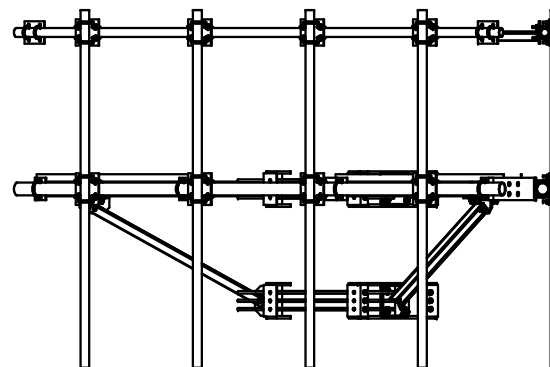
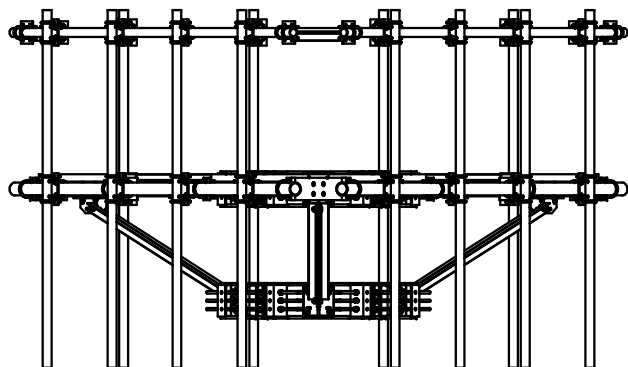


Engineering
 Support Team:
 1-888-753-7446

Locations:
 New York, NY
 Atlanta, GA
 Los Angeles, CA
 Plymouth, IN
 Salem, OR
 Dallas, TX

PART NO.	RMQP-496-HK
DWG. NO.	RMQP-496-HK

REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
B	RELOCATED MOUNT PIPE POSITIONS	4488	JET	5/23/2021
A	CHANGED X-253992 TO X-TBW	4488	CEK	9/20/2018
REVISION HISTORY				

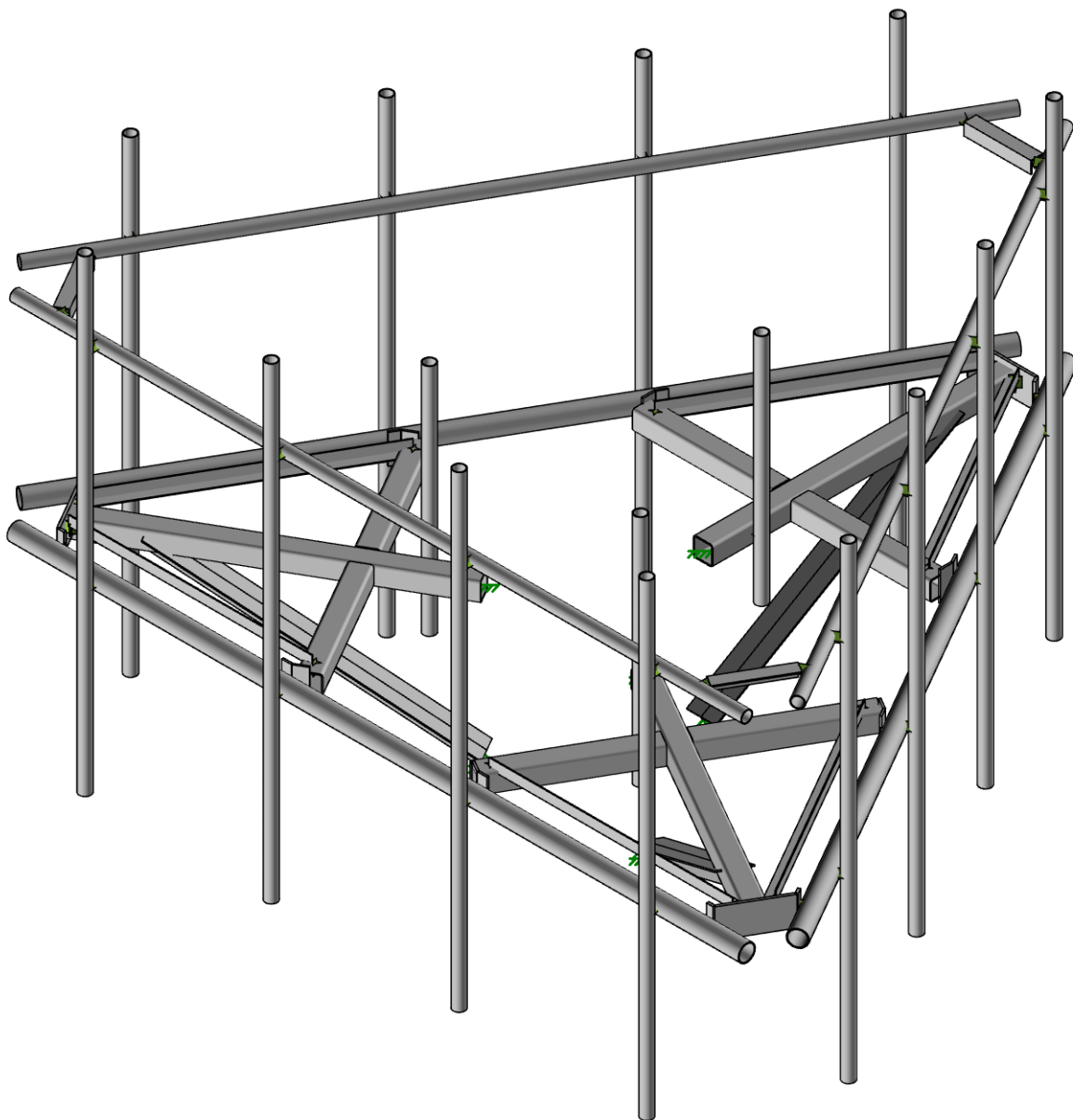
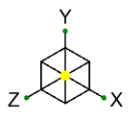


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A	CHANGED X-253992 TO X-TBW	4488	CEK	9/20/2018
REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
REVISION HISTORY				

TOLERANCE NOTES TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE: SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$) DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES BENDS ARE $\pm 1/2$ DEGREE ALL OTHER MACHINING ($\pm 0.030"$) ALL OTHER ASSEMBLY ($\pm 0.060"$) PROPRIETARY NOTE: THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.				
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DESCRIPTION 12' 6" LOW PROFILE PLATFORM WITH TWELVE 2-3/8" ANTENNA MOUNTING PIPES, AND SUPPORT RAIL			
CPD NO.	DRAWN BY	ENG. APPROVAL	
4488	CEK 7/14/2014		
CLASS	SUB	DRAWING USAGE	CHECKED BY
81	02	CUSTOMER	BMC 7/14/2014

SITE PRO 1 A valmont COMPANY		Locations: New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX
Engineering Support Team: 1-888-753-7446		
PART NO.	RMQP-496-HK	
DWG. NO.	RMQP-496-HK	



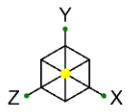
Envelope Only Solution



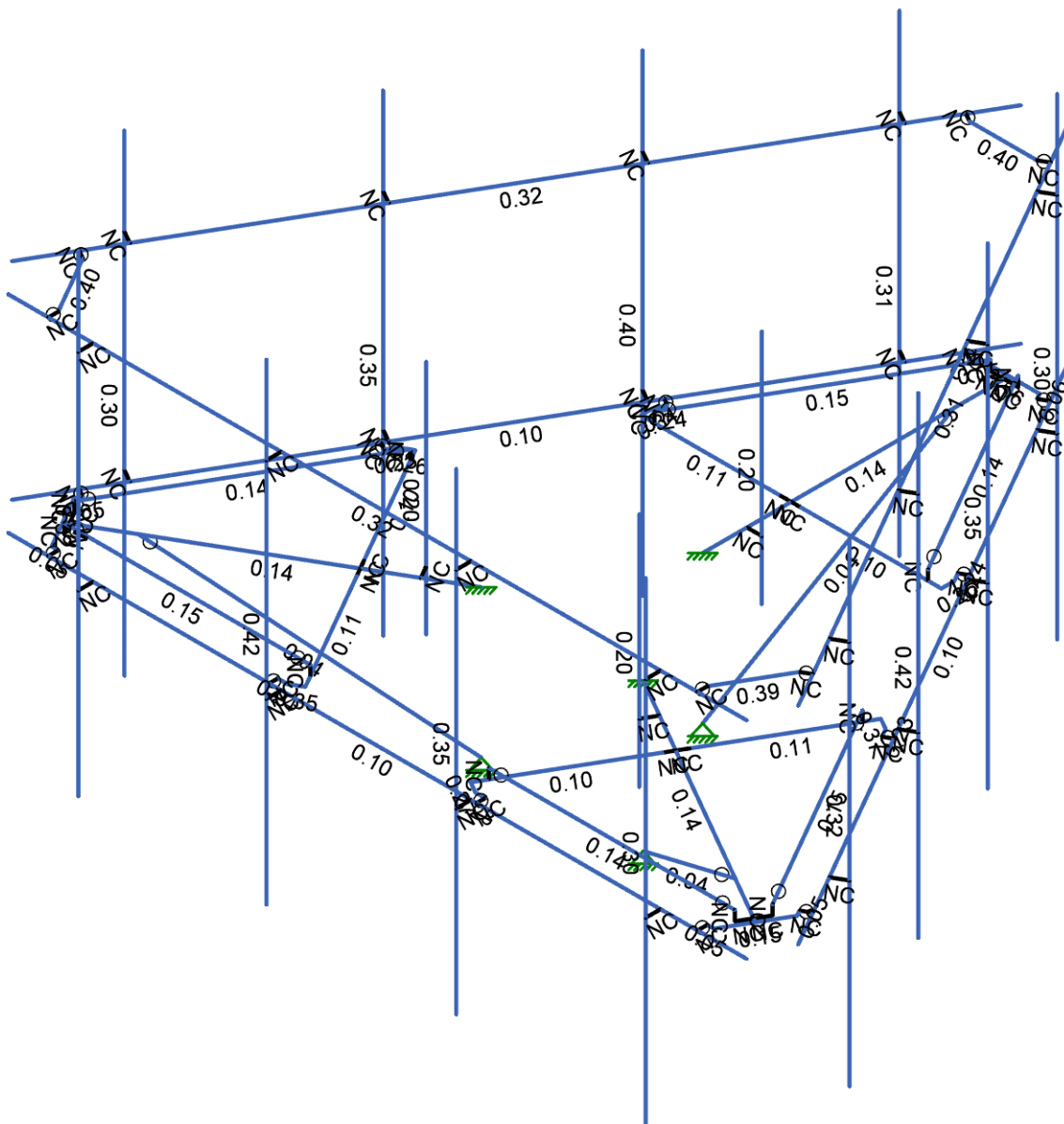
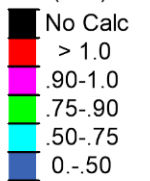
SK-1

Jun 12, 2025 at 11:58 AM

5000246390-VZW_MT_LO_...



Code Check
(Env)



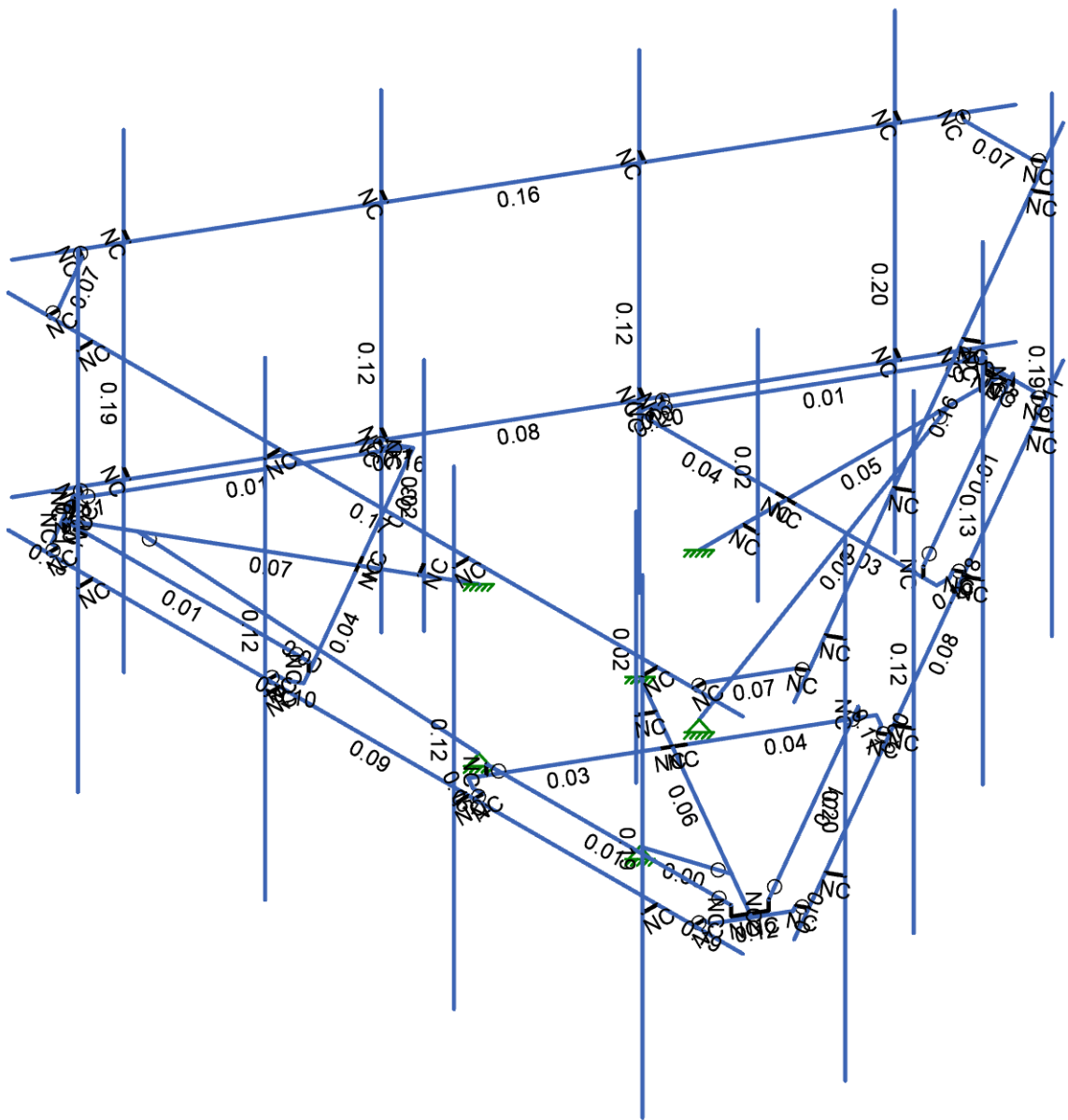
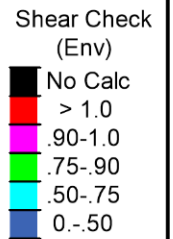
Member Code Checks Displayed (Enveloped)
Envelope Only Solution



SK-2

Jun 12, 2025 at 11:58 AM

5000246390-VZW_MT_LO_...



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution



SK-3

Jun 12, 2025 at 11:58 AM

5000246390-VZW_MT_LO_...

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Point	Distributed	Area(Member)
1	Antenna D	None				81		
2	Antenna Di	None				81		
3	Antenna Wo (0 Deg)	None				81		
4	Antenna Wo (30 Deg)	None				81		
5	Antenna Wo (60 Deg)	None				81		
6	Antenna Wo (90 Deg)	None				81		
7	Antenna Wo (120 Deg)	None				81		
8	Antenna Wo (150 Deg)	None				81		
9	Antenna Wo (180 Deg)	None				81		
10	Antenna Wo (210 Deg)	None				81		
11	Antenna Wo (240 Deg)	None				81		
12	Antenna Wo (270 Deg)	None				81		
13	Antenna Wo (300 Deg)	None				81		
14	Antenna Wo (330 Deg)	None				81		
15	Antenna Wi (0 Deg)	None				81		
16	Antenna Wi (30 Deg)	None				81		
17	Antenna Wi (60 Deg)	None				81		
18	Antenna Wi (90 Deg)	None				81		
19	Antenna Wi (120 Deg)	None				81		
20	Antenna Wi (150 Deg)	None				81		
21	Antenna Wi (180 Deg)	None				81		
22	Antenna Wi (210 Deg)	None				81		
23	Antenna Wi (240 Deg)	None				81		
24	Antenna Wi (270 Deg)	None				81		
25	Antenna Wi (300 Deg)	None				81		
26	Antenna Wi (330 Deg)	None				81		
27	Antenna Wm (0 Deg)	None				81		
28	Antenna Wm (30 Deg)	None				81		
29	Antenna Wm (60 Deg)	None				81		
30	Antenna Wm (90 Deg)	None				81		
31	Antenna Wm (120 Deg)	None				81		
32	Antenna Wm (150 Deg)	None				81		
33	Antenna Wm (180 Deg)	None				81		
34	Antenna Wm (210 Deg)	None				81		
35	Antenna Wm (240 Deg)	None				81		
36	Antenna Wm (270 Deg)	None				81		
37	Antenna Wm (300 Deg)	None				81		
38	Antenna Wm (330 Deg)	None				81		
39	Structure D	None		-1				3
40	Structure Di	None					63	3
41	Structure Wo (0 Deg)	None					126	
42	Structure Wo (30 Deg)	None					126	
43	Structure Wo (60 Deg)	None					126	
44	Structure Wo (90 Deg)	None					126	
45	Structure Wo (120 Deg)	None					126	
46	Structure Wo (150 Deg)	None					126	
47	Structure Wo (180 Deg)	None					126	
48	Structure Wo (210 Deg)	None					126	
49	Structure Wo (240 Deg)	None					126	
50	Structure Wo (270 Deg)	None					126	
51	Structure Wo (300 Deg)	None					126	
52	Structure Wo (330 Deg)	None					126	
53	Structure Wi (0 Deg)	None					126	
54	Structure Wi (30 Deg)	None					126	
55	Structure Wi (60 Deg)	None					126	

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Point	Distributed	Area(Member)
56	Structure Wi (90 Deg)	None					126	
57	Structure Wi (120 Deg)	None					126	
58	Structure Wi (150 Deg)	None					126	
59	Structure Wi (180 Deg)	None					126	
60	Structure Wi (210 Deg)	None					126	
61	Structure Wi (240 Deg)	None					126	
62	Structure Wi (270 Deg)	None					126	
63	Structure Wi (300 Deg)	None					126	
64	Structure Wi (330 Deg)	None					126	
65	Structure Wm (0 Deg)	None					126	
66	Structure Wm (30 Deg)	None					126	
67	Structure Wm (60 Deg)	None					126	
68	Structure Wm (90 Deg)	None					126	
69	Structure Wm (120 Deg)	None					126	
70	Structure Wm (150 Deg)	None					126	
71	Structure Wm (180 Deg)	None					126	
72	Structure Wm (210 Deg)	None					126	
73	Structure Wm (240 Deg)	None					126	
74	Structure Wm (270 Deg)	None					126	
75	Structure Wm (300 Deg)	None					126	
76	Structure Wm (330 Deg)	None					126	
77	Lm1	None				1		
78	Lm2	None				1		
79	Lv1	None				1		
80	Lv2	None				1		
81	Antenna Ev	None				81		
82	Antenna Eh (0 Deg)	None				54		
83	Antenna Eh (90 Deg)	None				54		
84	Structure Ev	ELY						
85	Structure Eh (0 Deg)	ELZ			-0.03			
86	Structure Eh (90 Deg)	ELX	0.03					
87	BLC 39 Transient Area Loads	None					30	
88	BLC 40 Transient Area Loads	None					30	

Load Combinations

	Description	Solve	P-Delta	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor
1	1.2D+1.0Wo (0 Deg)	Yes	Y	1	1.2	39	1.2	3	1	41	1								
2	1.2D+1.0Wo (30 Deg)	Yes	Y	1	1.2	39	1.2	4	1	42	1								
3	1.2D+1.0Wo (60 Deg)	Yes	Y	1	1.2	39	1.2	5	1	43	1								
4	1.2D+1.0Wo (90 Deg)	Yes	Y	1	1.2	39	1.2	6	1	44	1								
5	1.2D+1.0Wo (120 Deg)	Yes	Y	1	1.2	39	1.2	7	1	45	1								
6	1.2D+1.0Wo (150 Deg)	Yes	Y	1	1.2	39	1.2	8	1	46	1								
7	1.2D+1.0Wo (180 Deg)	Yes	Y	1	1.2	39	1.2	9	1	47	1								
8	1.2D+1.0Wo (210 Deg)	Yes	Y	1	1.2	39	1.2	10	1	48	1								
9	1.2D+1.0Wo (240 Deg)	Yes	Y	1	1.2	39	1.2	11	1	49	1								
10	1.2D+1.0Wo (270 Deg)	Yes	Y	1	1.2	39	1.2	12	1	50	1								
11	1.2D+1.0Wo (300 Deg)	Yes	Y	1	1.2	39	1.2	13	1	51	1								
12	1.2D+1.0Wo (330 Deg)	Yes	Y	1	1.2	39	1.2	14	1	52	1								
13	1.2D + 1.0Di + 1.0Wi (0 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	15	1	53	1				
14	1.2D + 1.0Di + 1.0Wi (30 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	16	1	54	1				
15	1.2D + 1.0Di + 1.0Wi (60 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	17	1	55	1				
16	1.2D + 1.0Di + 1.0Wi (90 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	18	1	56	1				
17	1.2D + 1.0Di + 1.0Wi (120 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	19	1	57	1				
18	1.2D + 1.0Di + 1.0Wi (150 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	20	1	58	1				
19	1.2D + 1.0Di + 1.0Wi (180 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	21	1	59	1				

Load Combinations (Continued)

Description	Solve	P-Delta	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor
20 1.2D + 1.0Di + 1.0Wi (210 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	22	1	60	1				
21 1.2D + 1.0Di + 1.0Wi (240 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	23	1	61	1				
22 1.2D + 1.0Di + 1.0Wi (270 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	24	1	62	1				
23 1.2D + 1.0Di + 1.0Wi (300 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	25	1	63	1				
24 1.2D + 1.0Di + 1.0Wi (330 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	26	1	64	1				
25 1.2D + 1.5Lm1 + 1.0Wm (0 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	27	1	65	1						
26 1.2D + 1.5Lm1 + 1.0Wm (30 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	28	1	66	1						
27 1.2D + 1.5Lm1 + 1.0Wm (60 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	29	1	67	1						
28 1.2D + 1.5Lm1 + 1.0Wm (90 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	30	1	68	1						
29 1.2D + 1.5Lm1 + 1.0Wm (120 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	31	1	69	1						
30 1.2D + 1.5Lm1 + 1.0Wm (150 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	32	1	70	1						
31 1.2D + 1.5Lm1 + 1.0Wm (180 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	33	1	71	1						
32 1.2D + 1.5Lm1 + 1.0Wm (210 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	34	1	72	1						
33 1.2D + 1.5Lm1 + 1.0Wm (240 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	35	1	73	1						
34 1.2D + 1.5Lm1 + 1.0Wm (270 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	36	1	74	1						
35 1.2D + 1.5Lm1 + 1.0Wm (300 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	37	1	75	1						
36 1.2D + 1.5Lm1 + 1.0Wm (330 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	38	1	76	1						
37 1.2D + 1.5Lm2 + 1.0Wm (0 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	27	1	65	1						
38 1.2D + 1.5Lm2 + 1.0Wm (30 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	28	1	66	1						
39 1.2D + 1.5Lm2 + 1.0Wm (60 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	29	1	67	1						
40 1.2D + 1.5Lm2 + 1.0Wm (90 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	30	1	68	1						
41 1.2D + 1.5Lm2 + 1.0Wm (120 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	31	1	69	1						
42 1.2D + 1.5Lm2 + 1.0Wm (150 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	32	1	70	1						
43 1.2D + 1.5Lm2 + 1.0Wm (180 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	33	1	71	1						
44 1.2D + 1.5Lm2 + 1.0Wm (210 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	34	1	72	1						
45 1.2D + 1.5Lm2 + 1.0Wm (240 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	35	1	73	1						
46 1.2D + 1.5Lm2 + 1.0Wm (270 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	36	1	74	1						
47 1.2D + 1.5Lm2 + 1.0Wm (300 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	37	1	75	1						
48 1.2D + 1.5Lm2 + 1.0Wm (330 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	38	1	76	1						
49 1.2D + 1.5Lv1	Yes	Y	1	1.2	39	1.2	79	1.5										
50 1.2D + 1.5Lv2	Yes	Y	1	1.2	39	1.2	80	1.5										
51 1.4D	Yes	Y	1	1.4	39	1.4												
52 1.2D + 1.0Ev + 1.0Eh (0 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	1	83		ELZ	1	ELX	
53 1.2D + 1.0Ev + 1.0Eh (30 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	0.866	83	0.5	ELZ	0.866	ELX	0.5
54 1.2D + 1.0Ev + 1.0Eh (60 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	0.5	83	0.866	ELZ	0.5	ELX	0.866
55 1.2D + 1.0Ev + 1.0Eh (90 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82		83	1	ELZ		ELX	1
56 1.2D + 1.0Ev + 1.0Eh (120 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-0.5	83	0.866	ELZ	-0.5	ELX	0.866
57 1.2D + 1.0Ev + 1.0Eh (150 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-0.866	83	0.5	ELZ	-0.866	ELX	0.5
58 1.2D + 1.0Ev + 1.0Eh (180 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-1	83		ELZ	-1	ELX	
59 1.2D + 1.0Ev + 1.0Eh (210 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-0.866	83	-0.5	ELZ	-0.866	ELX	-0.5
60 1.2D + 1.0Ev + 1.0Eh (240 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-0.5	83	-0.866	ELZ	-0.5	ELX	-0.866
61 1.2D + 1.0Ev + 1.0Eh (270 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82		83	-1	ELZ		ELX	-1
62 1.2D + 1.0Ev + 1.0Eh (300 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	0.5	83	-0.866	ELZ	0.5	ELX	-0.866
63 1.2D + 1.0Ev + 1.0Eh (330 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	0.866	83	-0.5	ELZ	0.866	ELX	-0.5
64 0.9D - 1.0Ev + 1.0Eh (0 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	1	83		ELZ	1	ELX	
65 0.9D - 1.0Ev + 1.0Eh (30 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	0.866	83	0.5	ELZ	0.866	ELX	0.5
66 0.9D - 1.0Ev + 1.0Eh (60 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	0.5	83	0.866	ELZ	0.5	ELX	0.866
67 0.9D - 1.0Ev + 1.0Eh (90 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82		83	1	ELZ		ELX	1
68 0.9D - 1.0Ev + 1.0Eh (120 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-0.5	83	0.866	ELZ	-0.5	ELX	0.866
69 0.9D - 1.0Ev + 1.0Eh (150 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-0.866	83	0.5	ELZ	-0.866	ELX	0.5
70 0.9D - 1.0Ev + 1.0Eh (180 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-1	83		ELZ	-1	ELX	
71 0.9D - 1.0Ev + 1.0Eh (210 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-0.866	83	-0.5	ELZ	-0.866	ELX	-0.5
72 0.9D - 1.0Ev + 1.0Eh (240 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-0.5	83	-0.866	ELZ	-0.5	ELX	-0.866
73 0.9D - 1.0Ev + 1.0Eh (270 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82		83	-1	ELZ		ELX	-1
74 0.9D - 1.0Ev + 1.0Eh (300 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	0.5	83	-0.866	ELZ	0.5	ELX	-0.866

Load Combinations (Continued)

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
75	0.9D - 1.0Ev + 1.0Eh (330 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	0.866	83	-0.5	ELZ	0.866	ELX	-0.5		

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in²]	Iyy [in⁴]	Izz [in⁴]	J [in⁴]
1	Face Horizontal	PIPE 3.0	Beam	Pipe	A53 Gr.B	Typical	2.07	2.85	2.85	5.69
2	Standoff Horizontal	HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical	3.37	7.8	7.8	12.8
3	Corner Plate	PL1/2X6	Beam	BAR	A36 Gr.36	Typical	3	0.062	9	0.237
4	Platform Crossmember	HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical	3.37	7.8	7.8	12.8
5	Grating Support	L2X2X3	Beam	Single Angle	A36 Gr.36	Typical	0.722	0.271	0.271	0.009
6	Mount Pipe	PIPE 2.0	Column	Pipe	A53 Gr.B	Typical	1.02	0.627	0.627	1.25
7	Cross Arm Plate	PL3/8X6	Column	RECT	A36 Gr.36	Typical	2.25	0.026	6.75	0.101
8	Kicker	LL3X3X4X0	Column	Double Angle (No Gap)	A36 Gr.36	Typical	2.88	4.5	2.46	0.063
9	Support Rail Corner	L2.5X2.5X4	Column	Single Angle	A36 Gr.36	Typical	1.19	0.692	0.692	0.026
10	Support Rail	PIPE 2.0	Column	HSS Pipe	A53 Gr.B	Typical	1.02	0.627	0.627	1.25

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [$10^{-6}/^{\circ}\text{F}^{-1}$]	Density [k/ft ³]	Yield [ksi]	Ry	Fu [ksi]	Rt
1	A992	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	0.3	0.65	0.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	0.3	0.65	0.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	0.3	0.65	0.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	0.3	0.65	0.49	35	1.6	60	1.2
7	A1085	29000	11154	0.3	0.65	0.49	50	1.4	65	1.3
8	Q235	29000	11154	0.3	0.65	0.49	35	1.5	58	1.2

Member Primary Data

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
1	M1	N1	N6		Standoff Horizontal	Beam	SquareTube	A500 Gr.B Rect	Typical
2	M2	N10	N12		Platform Crossmember	Beam	SquareTube	A500 Gr.B Rect	Typical
3	M3	N11	N2		Platform Crossmember	Beam	SquareTube	A500 Gr.B Rect	Typical
4	M4	N21	N22		Corner Plate	Beam	BAR	A36 Gr.36	Typical
5	M5	N4	N9	240	RIGID	None	None	RIGID	Typical
6	M6	N3	N8	240	RIGID	None	None	RIGID	Typical
7	M7	N26	N3		Grating Support	Beam	Single Angle	A36 Gr.36	Typical
8	M8	N4	N28		Grating Support	Beam	Single Angle	A36 Gr.36	Typical
9	M9	N28	N29	240	RIGID	None	None	RIGID	Typical
10	M10	N11	N5		RIGID	None	None	RIGID	Typical
11	M11	N5	N12		RIGID	None	None	RIGID	Typical
12	M12	N10	N14		Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
13	M13	N14	N15		Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
14	M14	N15	N19		RIGID	None	None	RIGID	Typical
15	M15	N22	N16		Corner Plate	Beam	BAR	A36 Gr.36	Typical
16	M16	N16	N23		RIGID	None	None	RIGID	Typical
17	M17	N2	N13		Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
18	M18	N13	N17		Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
19	M19	N17	N20		RIGID	None	None	RIGID	Typical
20	M20	N21	N18		Corner Plate	Beam	BAR	A36 Gr.36	Typical
21	M21	N18	N24		RIGID	None	None	RIGID	Typical
22	M22	N29	N25		RIGID	None	None	RIGID	Typical
23	M23	N25	N27		RIGID	None	None	RIGID	Typical
24	M24	N26	N27	240	RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
25	M25	N30	N35		Standoff Horizontal	Beam	SquareTube	A500 Gr.B Rect	Typical
26	M26	N38	N40		Platform Crossmember	Beam	SquareTube	A500 Gr.B Rect	Typical
27	M27	N39	N31		Platform Crossmember	Beam	SquareTube	A500 Gr.B Rect	Typical
28	M28	N49	N50		Corner Plate	Beam	BAR	A36 Gr.36	Typical
29	M29	N33	N37	240	RIGID	None	None	RIGID	Typical
30	M30	N32	N36	240	RIGID	None	None	RIGID	Typical
31	M31	N54	N32		Grating Support	Beam	Single Angle	A36 Gr.36	Typical
32	M32	N33	N56		Grating Support	Beam	Single Angle	A36 Gr.36	Typical
33	M33	N56	N57	240	RIGID	None	None	RIGID	Typical
34	M34	N39	N34		RIGID	None	None	RIGID	Typical
35	M35	N34	N40		RIGID	None	None	RIGID	Typical
36	M36	N38	N42		Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
37	M37	N42	N43		Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
38	M38	N43	N47		RIGID	None	None	RIGID	Typical
39	M39	N50	N44		Corner Plate	Beam	BAR	A36 Gr.36	Typical
40	M40	N44	N51		RIGID	None	None	RIGID	Typical
41	M41	N31	N41		Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
42	M42	N41	N45		Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
43	M43	N45	N48		RIGID	None	None	RIGID	Typical
44	M44	N49	N46		Corner Plate	Beam	BAR	A36 Gr.36	Typical
45	M45	N46	N52		RIGID	None	None	RIGID	Typical
46	M46	N57	N53		RIGID	None	None	RIGID	Typical
47	M47	N53	N55		RIGID	None	None	RIGID	Typical
48	M48	N54	N55	240	RIGID	None	None	RIGID	Typical
49	M49	N58	N63		Standoff Horizontal	Beam	SquareTube	A500 Gr.B Rect	Typical
50	M50	N66	N68		Platform Crossmember	Beam	SquareTube	A500 Gr.B Rect	Typical
51	M51	N67	N59		Platform Crossmember	Beam	SquareTube	A500 Gr.B Rect	Typical
52	M52	N77	N78		Corner Plate	Beam	BAR	A36 Gr.36	Typical
53	M53	N61	N65	240	RIGID	None	None	RIGID	Typical
54	M54	N60	N64	240	RIGID	None	None	RIGID	Typical
55	M55	N82	N60		Grating Support	Beam	Single Angle	A36 Gr.36	Typical
56	M56	N61	N84		Grating Support	Beam	Single Angle	A36 Gr.36	Typical
57	M57	N84	N85	240	RIGID	None	None	RIGID	Typical
58	M58	N67	N62		RIGID	None	None	RIGID	Typical
59	M59	N62	N68		RIGID	None	None	RIGID	Typical
60	M60	N66	N70		Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
61	M61	N70	N71		Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
62	M62	N71	N75		RIGID	None	None	RIGID	Typical
63	M63	N78	N72		Corner Plate	Beam	BAR	A36 Gr.36	Typical
64	M64	N72	N79		RIGID	None	None	RIGID	Typical
65	M65	N59	N69		Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
66	M66	N69	N73		Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
67	M67	N73	N76		RIGID	None	None	RIGID	Typical
68	M68	N77	N74		Corner Plate	Beam	BAR	A36 Gr.36	Typical
69	M69	N74	N80		RIGID	None	None	RIGID	Typical
70	M70	N85	N81		RIGID	None	None	RIGID	Typical
71	M71	N81	N83		RIGID	None	None	RIGID	Typical
72	M72	N82	N83	240	RIGID	None	None	RIGID	Typical
73	LV	N86	N87		Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
74	M74	N88	N89		Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
75	M75	N90	N91		Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
76	M76	N92	N93		RIGID	None	None	RIGID	Typical
77	MP1A	N94	N95		Mount Pipe	Column	Pipe	A53 Gr.B	Typical
78	L2	N96	N97		RIGID	None	None	RIGID	Typical
79	MP2A	N98	N99		Mount Pipe	Column	Pipe	A53 Gr.B	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
80	L1	N100	N101		RIGID	None	None	RIGID	Typical
81	MP3A	N102	N103		Mount Pipe	Column	Pipe	A53 Gr.B	Typical
82	M82	N104	N105		RIGID	None	None	RIGID	Typical
83	MP4A	N106	N107		Mount Pipe	Column	Pipe	A53 Gr.B	Typical
84	M84	N108	N109		RIGID	None	None	RIGID	Typical
85	MP1C	N110	N111	240	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
86	M90	N120	N121		RIGID	None	None	RIGID	Typical
87	MP4C	N122	N123	240	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
88	M92	N124	N125		RIGID	None	None	RIGID	Typical
89	MP1B	N126	N127	120	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
90	M98	N136	N137		RIGID	None	None	RIGID	Typical
91	MP4B	N138	N139	120	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
92	M101	N142	N143		RIGID	None	None	RIGID	Typical
93	OVP	N144	N145		Mount Pipe	Column	Pipe	A53 Gr.B	Typical
94	M103	N146	N147		Support Rail	Column	HSS Pipe	A53 Gr.B	Typical
95	M104	N148	N149		Support Rail	Column	HSS Pipe	A53 Gr.B	Typical
96	M105	N150	N151		Support Rail	Column	HSS Pipe	A53 Gr.B	Typical
97	M106	N152	N153		RIGID	None	None	RIGID	Typical
98	M107	N154	N155		RIGID	None	None	RIGID	Typical
99	M108	N156	N157		RIGID	None	None	RIGID	Typical
100	M109	N158	N159		RIGID	None	None	RIGID	Typical
101	M110	N160	N161		RIGID	None	None	RIGID	Typical
102	M113	N166	N167		RIGID	None	None	RIGID	Typical
103	M114	N168	N169		RIGID	None	None	RIGID	Typical
104	M117	N174	N175		RIGID	None	None	RIGID	Typical
105	M118	N178	N179		Kicker	Column	Double Angle (No Gap)	A36 Gr.36	Typical
106	MP2C	N170	N172	240	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
107	M112	N162	N186		RIGID	None	None	RIGID	Typical
108	M115	N165	N163		RIGID	None	None	RIGID	Typical
109	M116	N164	N171		RIGID	None	None	RIGID	Typical
110	M121	N173	N184		RIGID	None	None	RIGID	Typical
111	MP3C	N185	N187	240	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
112	MP2B	N192	N194	120	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
113	M124	N188	N198		RIGID	None	None	RIGID	Typical
114	M125	N191	N189		RIGID	None	None	RIGID	Typical
115	M126	N190	N193		RIGID	None	None	RIGID	Typical
116	M127	N195	N196		RIGID	None	None	RIGID	Typical
117	MP3B	N197	N199	120	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
118	M119	N181	N180		Kicker	Column	Double Angle (No Gap)	A36 Gr.36	Typical
119	M120	N201	N200		Kicker	Column	Double Angle (No Gap)	A36 Gr.36	Typical
120	M122	N204	N202		RIGID	None	None	RIGID	Typical
121	M123	N206	N203		RIGID	None	None	RIGID	Typical
122	M128	N205	N207		RIGID	None	None	RIGID	Typical
123	M129	N208	N209		RIGID	None	None	RIGID	Typical
124	M130	N210	N211		RIGID	None	None	RIGID	Typical
125	M131	N212	N213		RIGID	None	None	RIGID	Typical
126	M132	N206	N210	180	Support Rail Corner	Column	Single Angle	A36 Gr.36	Typical
127	M133	N208	N204	180	Support Rail Corner	Column	Single Angle	A36 Gr.36	Typical
128	M134	N212	N205	180	Support Rail Corner	Column	Single Angle	A36 Gr.36	Typical
129	M135	N217	N215		RIGID	None	None	RIGID	Typical
130	OVP1	N216	N214		Mount Pipe	Column	Pipe	A53 Gr.B	Typical
131	M136	N221	N219		RIGID	None	None	RIGID	Typical
132	OVP2	N220	N218		Mount Pipe	Column	Pipe	A53 Gr.B	Typical

Member Advanced Data

	Label	I Release	J Release	Col-Wall Vert Release	Physical	Deflection Ratio Options	Seismic DR
1	M1				Yes	N/A	None
2	M2				Yes	Default	None
3	M3				Yes	Default	None
4	M4				Yes	Default	None
5	M5				Yes	** NA **	None
6	M6				Yes	** NA **	None
7	M7	OOOOOX	OOOOOX		Yes	Default	None
8	M8	OOOOOX	OOOOOX		Yes	Default	None
9	M9				Yes	** NA **	None
10	M10				Yes	** NA **	None
11	M11				Yes	** NA **	None
12	M12				Yes	** NA **	None
13	M13				Yes	** NA **	None
14	M14		BenPIN		Yes	** NA **	None
15	M15				Yes	N/A	None
16	M16		BenPIN		Yes	** NA **	None
17	M17				Yes	** NA **	None
18	M18				Yes	** NA **	None
19	M19		BenPIN		Yes	** NA **	None
20	M20				Yes	N/A	None
21	M21		BenPIN		Yes	** NA **	None
22	M22				Yes	** NA **	None
23	M23				Yes	** NA **	None
24	M24				Yes	** NA **	None
25	M25				Yes	N/A	None
26	M26				Yes	Default	None
27	M27				Yes	Default	None
28	M28				Yes	Default	None
29	M29				Yes	** NA **	None
30	M30				Yes	** NA **	None
31	M31	OOOOOX	OOOOOX		Yes	Default	None
32	M32	OOOOOX	OOOOOX		Yes	Default	None
33	M33				Yes	** NA **	None
34	M34				Yes	** NA **	None
35	M35				Yes	** NA **	None
36	M36				Yes	** NA **	None
37	M37				Yes	** NA **	None
38	M38		BenPIN		Yes	** NA **	None
39	M39				Yes	N/A	None
40	M40		BenPIN		Yes	** NA **	None
41	M41				Yes	** NA **	None
42	M42				Yes	** NA **	None
43	M43		BenPIN		Yes	** NA **	None
44	M44				Yes	N/A	None
45	M45		BenPIN		Yes	** NA **	None
46	M46				Yes	** NA **	None
47	M47				Yes	** NA **	None
48	M48				Yes	** NA **	None
49	M49				Yes	N/A	None
50	M50				Yes	Default	None
51	M51				Yes	Default	None
52	M52				Yes	Default	None
53	M53				Yes	** NA **	None
54	M54				Yes	** NA **	None
55	M55	OOOOOX	OOOOOX		Yes	Default	None

Member Advanced Data (Continued)

	Label	I Release	J Release	Col-Wall Vert Release	Physical	Deflection Ratio Options	Seismic DR
56	M56	OOOOOX	OOOOOX		Yes	Default	None
57	M57				Yes	** NA **	None
58	M58				Yes	** NA **	None
59	M59				Yes	** NA **	None
60	M60				Yes	** NA **	None
61	M61				Yes	** NA **	None
62	M62		BenPIN		Yes	** NA **	None
63	M63				Yes	N/A	None
64	M64		BenPIN		Yes	** NA **	None
65	M65				Yes	** NA **	None
66	M66				Yes	** NA **	None
67	M67		BenPIN		Yes	** NA **	None
68	M68				Yes	N/A	None
69	M69		BenPIN		Yes	** NA **	None
70	M70				Yes	** NA **	None
71	M71				Yes	** NA **	None
72	M72				Yes	** NA **	None
73	LV				Yes	Default	None
74	M74				Yes	N/A	None
75	M75				Yes	N/A	None
76	M76				Yes	** NA **	None
77	MP1A				Yes	** NA **	None
78	L2				Yes	** NA **	None
79	MP2A				Yes	** NA **	None
80	L1				Yes	** NA **	None
81	MP3A				Yes	** NA **	None
82	M82				Yes	** NA **	None
83	MP4A				Yes	** NA **	None
84	M84				Yes	** NA **	None
85	MP1C				Yes	** NA **	None
86	M90				Yes	** NA **	None
87	MP4C				Yes	** NA **	None
88	M92				Yes	** NA **	None
89	MP1B				Yes	** NA **	None
90	M98				Yes	** NA **	None
91	MP4B				Yes	** NA **	None
92	M101				Yes	** NA **	None
93	OVP				Yes	** NA **	None
94	M103				Yes	** NA **	None
95	M104				Yes	** NA **	None
96	M105				Yes	** NA **	None
97	M106				Yes	** NA **	None
98	M107				Yes	** NA **	None
99	M108				Yes	** NA **	None
100	M109				Yes	** NA **	None
101	M110				Yes	** NA **	None
102	M113				Yes	** NA **	None
103	M114				Yes	** NA **	None
104	M117				Yes	** NA **	None
105	M118	BenPIN			Yes	** NA **	None
106	MP2C				Yes	** NA **	None
107	M112				Yes	** NA **	None
108	M115				Yes	** NA **	None
109	M116				Yes	** NA **	None
110	M121				Yes	** NA **	None

Member Advanced Data (Continued)

	Label	I Release	J Release	Col-Wall Vert Release	Physical	Deflection Ratio Options	Seismic DR
111	MP3C				Yes	** NA **	None
112	MP2B				Yes	** NA **	None
113	M124				Yes	** NA **	None
114	M125				Yes	** NA **	None
115	M126				Yes	** NA **	None
116	M127				Yes	** NA **	None
117	MP3B				Yes	** NA **	None
118	M119	BenPIN			Yes	** NA **	None
119	M120	BenPIN			Yes	** NA **	None
120	M122		OOOOOX		Yes	** NA **	None
121	M123		OOOOOX		Yes	** NA **	None
122	M128		OOOOOX		Yes	** NA **	None
123	M129		OOOOOX		Yes	** NA **	None
124	M130		OOOOOX		Yes	** NA **	None
125	M131		OOOOOX		Yes	** NA **	None
126	M132				Yes	** NA **	None
127	M133				Yes	** NA **	None
128	M134				Yes	** NA **	None
129	M135				Yes	** NA **	None
130	OVP1				Yes	** NA **	None
131	M136				Yes	** NA **	None
132	OVP2				Yes	** NA **	None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	Y	-38.5	1.5
2	MP3A	My	-0.019	1.5
3	MP3A	Mz	-0.032	1.5
4	MP3A	Y	-38.5	6.5
5	MP3A	My	-0.019	6.5
6	MP3A	Mz	-0.032	6.5
7	MP3B	Y	-38.5	1.5
8	MP3B	My	0.037	1.5
9	MP3B	Mz	0.001	1.5
10	MP3B	Y	-38.5	6.5
11	MP3B	My	0.037	6.5
12	MP3B	Mz	0.001	6.5
13	MP3C	Y	-38.5	1.5
14	MP3C	My	-0.014	1.5
15	MP3C	Mz	0.035	1.5
16	MP3C	Y	-38.5	6.5
17	MP3C	My	-0.014	6.5
18	MP3C	Mz	0.035	6.5
19	MP3A	Y	-38.5	1.5
20	MP3A	My	-0.019	1.5
21	MP3A	Mz	0.032	1.5
22	MP3A	Y	-38.5	6.5
23	MP3A	My	-0.019	6.5
24	MP3A	Mz	0.032	6.5
25	MP3B	Y	-38.5	1.5
26	MP3B	My	-0.016	1.5
27	MP3B	Mz	-0.034	1.5
28	MP3B	Y	-38.5	6.5
29	MP3B	My	-0.016	6.5
30	MP3B	Mz	-0.034	6.5

Member Point Loads (BLC 1 : Antenna D) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
31	MP3C	Y	-38.5	1.5
32	MP3C	My	0.037	1.5
33	MP3C	Mz	-0.004	1.5
34	MP3C	Y	-38.5	6.5
35	MP3C	My	0.037	6.5
36	MP3C	Mz	-0.004	6.5
37	MP1A	Y	-28.65	3
38	MP1A	My	-0.014	3
39	MP1A	Mz	0	3
40	MP1A	Y	-28.65	5
41	MP1A	My	-0.014	5
42	MP1A	Mz	0	5
43	MP1B	Y	-28.65	3
44	MP1B	My	0.008	3
45	MP1B	Mz	-0.012	3
46	MP1B	Y	-28.65	5
47	MP1B	My	0.008	5
48	MP1B	Mz	-0.012	5
49	MP1C	Y	-28.65	3
50	MP1C	My	0.009	3
51	MP1C	Mz	0.011	3
52	MP1C	Y	-28.65	5
53	MP1C	My	0.009	5
54	MP1C	Mz	0.011	5
55	MP3A	Y	-87.9	2.5
56	MP3A	My	0.044	2.5
57	MP3A	Mz	0	2.5
58	MP3B	Y	-87.9	2.5
59	MP3B	My	-0.024	2.5
60	MP3B	Mz	0.037	2.5
61	MP3C	Y	-87.9	2.5
62	MP3C	My	-0.026	2.5
63	MP3C	Mz	-0.035	2.5
64	MP2A	Y	-79.1	2.5
65	MP2A	My	0.04	2.5
66	MP2A	Mz	0	2.5
67	MP2B	Y	-79.1	2.5
68	MP2B	My	-0.022	2.5
69	MP2B	Mz	0.033	2.5
70	MP2C	Y	-79.1	2.5
71	MP2C	My	-0.024	2.5
72	MP2C	Mz	-0.032	2.5
73	OVP	Y	-32	1
74	OVP	My	0	1
75	OVP	Mz	0	1
76	OVP1	Y	-32	1
77	OVP1	My	0	1
78	OVP1	Mz	0	1
79	OVP2	Y	-32	1
80	OVP2	My	0	1
81	OVP2	Mz	0	1

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	Y	-83.346	1.5
2	MP3A	My	-0.042	1.5
3	MP3A	Mz	-0.069	1.5
4	MP3A	Y	-83.346	6.5
5	MP3A	My	-0.042	6.5
6	MP3A	Mz	-0.069	6.5
7	MP3B	Y	-83.346	1.5
8	MP3B	My	0.081	1.5
9	MP3B	Mz	0.003	1.5
10	MP3B	Y	-83.346	6.5
11	MP3B	My	0.081	6.5
12	MP3B	Mz	0.003	6.5
13	MP3C	Y	-83.346	1.5
14	MP3C	My	-0.03	1.5
15	MP3C	Mz	0.075	1.5
16	MP3C	Y	-83.346	6.5
17	MP3C	My	-0.03	6.5
18	MP3C	Mz	0.075	6.5
19	MP3A	Y	-83.346	1.5
20	MP3A	My	-0.042	1.5
21	MP3A	Mz	0.069	1.5
22	MP3A	Y	-83.346	6.5
23	MP3A	My	-0.042	6.5
24	MP3A	Mz	0.069	6.5
25	MP3B	Y	-83.346	1.5
26	MP3B	My	-0.036	1.5
27	MP3B	Mz	-0.073	1.5
28	MP3B	Y	-83.346	6.5
29	MP3B	My	-0.036	6.5
30	MP3B	Mz	-0.073	6.5
31	MP3C	Y	-83.346	1.5
32	MP3C	My	0.081	1.5
33	MP3C	Mz	-0.009	1.5
34	MP3C	Y	-83.346	6.5
35	MP3C	My	0.081	6.5
36	MP3C	Mz	-0.009	6.5
37	MP1A	Y	-30.272	3
38	MP1A	My	-0.015	3
39	MP1A	Mz	0	3
40	MP1A	Y	-30.272	5
41	MP1A	My	-0.015	5
42	MP1A	Mz	0	5
43	MP1B	Y	-30.272	3
44	MP1B	My	0.008	3
45	MP1B	Mz	-0.013	3
46	MP1B	Y	-30.272	5
47	MP1B	My	0.008	5
48	MP1B	Mz	-0.013	5
49	MP1C	Y	-30.272	3
50	MP1C	My	0.009	3
51	MP1C	Mz	0.012	3
52	MP1C	Y	-30.272	5
53	MP1C	My	0.009	5
54	MP1C	Mz	0.012	5
55	MP3A	Y	-56.673	2.5

Member Point Loads (BLC 2 : Antenna Di) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP3A	My	0.028	2.5
57	MP3A	Mz	0	2.5
58	MP3B	Y	-56.673	2.5
59	MP3B	My	-0.015	2.5
60	MP3B	Mz	0.024	2.5
61	MP3C	Y	-56.673	2.5
62	MP3C	My	-0.017	2.5
63	MP3C	Mz	-0.023	2.5
64	MP2A	Y	-46.133	2.5
65	MP2A	My	0.023	2.5
66	MP2A	Mz	0	2.5
67	MP2B	Y	-46.133	2.5
68	MP2B	My	-0.013	2.5
69	MP2B	Mz	0.019	2.5
70	MP2C	Y	-46.133	2.5
71	MP2C	My	-0.014	2.5
72	MP2C	Mz	-0.018	2.5
73	OVP	Y	-89.334	1
74	OVP	My	0	1
75	OVP	Mz	0	1
76	OVP1	Y	-89.334	1
77	OVP1	My	0	1
78	OVP1	Mz	0	1
79	OVP2	Y	-89.334	1
80	OVP2	My	0	1
81	OVP2	Mz	0	1

Member Point Loads (BLC 3 : Antenna Wo (0 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	1.5
2	MP3A	Z	-190.957	1.5
3	MP3A	Mx	0.159	1.5
4	MP3A	X	0	6.5
5	MP3A	Z	-190.957	6.5
6	MP3A	Mx	0.159	6.5
7	MP3B	X	0	1.5
8	MP3B	Z	-120.171	1.5
9	MP3B	Mx	-0.004	1.5
10	MP3B	X	0	6.5
11	MP3B	Z	-120.171	6.5
12	MP3B	Mx	-0.004	6.5
13	MP3C	X	0	1.5
14	MP3C	Z	-126.767	1.5
15	MP3C	Mx	-0.114	1.5
16	MP3C	X	0	6.5
17	MP3C	Z	-126.767	6.5
18	MP3C	Mx	-0.114	6.5
19	MP3A	X	0	1.5
20	MP3A	Z	-190.957	1.5
21	MP3A	Mx	-0.159	1.5
22	MP3A	X	0	6.5
23	MP3A	Z	-190.957	6.5
24	MP3A	Mx	-0.159	6.5
25	MP3B	X	0	1.5
26	MP3B	Z	-120.171	1.5

Member Point Loads (BLC 3 : Antenna Wo (0 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
27	MP3B	Mx	0.105	1.5
28	MP3B	X	0	6.5
29	MP3B	Z	-120.171	6.5
30	MP3B	Mx	0.105	6.5
31	MP3C	X	0	1.5
32	MP3C	Z	-126.767	1.5
33	MP3C	Mx	0.013	1.5
34	MP3C	X	0	6.5
35	MP3C	Z	-126.767	6.5
36	MP3C	Mx	0.013	6.5
37	MP1A	X	0	3
38	MP1A	Z	-81.544	3
39	MP1A	Mx	0	3
40	MP1A	X	0	5
41	MP1A	Z	-81.544	5
42	MP1A	Mx	0	5
43	MP1B	X	0	3
44	MP1B	Z	-44.336	3
45	MP1B	Mx	0.019	3
46	MP1B	X	0	5
47	MP1B	Z	-44.336	5
48	MP1B	Mx	0.019	5
49	MP1C	X	0	3
50	MP1C	Z	-47.803	3
51	MP1C	Mx	-0.019	3
52	MP1C	X	0	5
53	MP1C	Z	-47.803	5
54	MP1C	Mx	-0.019	5
55	MP3A	X	0	2.5
56	MP3A	Z	-162.056	2.5
57	MP3A	Mx	0	2.5
58	MP3B	X	0	2.5
59	MP3B	Z	-96.481	2.5
60	MP3B	Mx	-0.04	2.5
61	MP3C	X	0	2.5
62	MP3C	Z	-102.592	2.5
63	MP3C	Mx	0.041	2.5
64	MP2A	X	0	2.5
65	MP2A	Z	-96.511	2.5
66	MP2A	Mx	0	2.5
67	MP2B	X	0	2.5
68	MP2B	Z	-74.912	2.5
69	MP2B	Mx	-0.031	2.5
70	MP2C	X	0	2.5
71	MP2C	Z	-76.925	2.5
72	MP2C	Mx	0.031	2.5
73	OVP	X	0	1
74	OVP	Z	-160.251	1
75	OVP	Mx	0	1
76	OVP1	X	0	1
77	OVP1	Z	-160.251	1
78	OVP1	Mx	0	1
79	OVP2	X	0	1
80	OVP2	Z	-160.251	1
81	OVP2	Mx	0	1



Company :
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Job Number :
Model Name :

6/12/2025
11:59:05 AM
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Member Point Loads (BLC 3 : Antenna Wo (0 Deg)) (Continued)

Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
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Member Point Loads (BLC 4 : Antenna Wo (30 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	82.899	1.5
2	MP3A	Z	-143.585	1.5
3	MP3A	Mx	0.078	1.5
4	MP3A	X	82.899	6.5
5	MP3A	Z	-143.585	6.5
6	MP3A	Mx	0.078	6.5
7	MP3B	X	45.297	1.5
8	MP3B	Z	-78.456	1.5
9	MP3B	Mx	0.041	1.5
10	MP3B	X	45.297	6.5
11	MP3B	Z	-78.456	6.5
12	MP3B	Mx	0.041	6.5
13	MP3C	X	87.796	1.5
14	MP3C	Z	-152.068	1.5
15	MP3C	Mx	-0.169	1.5
16	MP3C	X	87.796	6.5
17	MP3C	Z	-152.068	6.5
18	MP3C	Mx	-0.169	6.5
19	MP3A	X	82.899	1.5
20	MP3A	Z	-143.585	1.5
21	MP3A	Mx	-0.161	1.5
22	MP3A	X	82.899	6.5
23	MP3A	Z	-143.585	6.5
24	MP3A	Mx	-0.161	6.5
25	MP3B	X	45.297	1.5
26	MP3B	Z	-78.456	1.5
27	MP3B	Mx	0.049	1.5
28	MP3B	X	45.297	6.5
29	MP3B	Z	-78.456	6.5
30	MP3B	Mx	0.049	6.5
31	MP3C	X	87.796	1.5
32	MP3C	Z	-152.068	1.5
33	MP3C	Mx	0.1	1.5
34	MP3C	X	87.796	6.5
35	MP3C	Z	-152.068	6.5
36	MP3C	Mx	0.1	6.5
37	MP1A	X	34.159	3
38	MP1A	Z	-59.166	3
39	MP1A	Mx	-0.017	3
40	MP1A	X	34.159	5
41	MP1A	Z	-59.166	5
42	MP1A	Mx	-0.017	5
43	MP1B	X	14.394	3
44	MP1B	Z	-24.932	3
45	MP1B	Mx	0.014	3
46	MP1B	X	14.394	5
47	MP1B	Z	-24.932	5
48	MP1B	Mx	0.014	5
49	MP1C	X	36.734	3
50	MP1C	Z	-63.625	3
51	MP1C	Mx	-0.014	3
52	MP1C	X	36.734	5
53	MP1C	Z	-63.625	5
54	MP1C	Mx	-0.014	5
55	MP3A	X	69.374	2.5

Member Point Loads (BLC 4 : Antenna Wo (30 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP3A	Z	-120.159	2.5
57	MP3A	Mx	0.035	2.5
58	MP3B	X	34.54	2.5
59	MP3B	Z	-59.826	2.5
60	MP3B	Mx	-0.034	2.5
61	MP3C	X	73.911	2.5
62	MP3C	Z	-128.018	2.5
63	MP3C	Mx	0.029	2.5
64	MP2A	X	44.417	2.5
65	MP2A	Z	-76.932	2.5
66	MP2A	Mx	0.022	2.5
67	MP2B	X	32.943	2.5
68	MP2B	Z	-57.06	2.5
69	MP2B	Mx	-0.033	2.5
70	MP2C	X	45.911	2.5
71	MP2C	Z	-79.521	2.5
72	MP2C	Mx	0.018	2.5
73	OVP	X	71.312	1
74	OVP	Z	-123.516	1
75	OVP	Mx	0	1
76	OVP1	X	71.312	1
77	OVP1	Z	-123.516	1
78	OVP1	Mx	0	1
79	OVP2	X	71.312	1
80	OVP2	Z	-123.516	1
81	OVP2	Mx	0	1

Member Point Loads (BLC 5 : Antenna Wo (60 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	100.007	1.5
2	MP3A	Z	-57.739	1.5
3	MP3A	Mx	-0.002	1.5
4	MP3A	X	100.007	6.5
5	MP3A	Z	-57.739	6.5
6	MP3A	Mx	-0.002	6.5
7	MP3B	X	96.181	1.5
8	MP3B	Z	-55.53	1.5
9	MP3B	Mx	0.091	1.5
10	MP3B	X	96.181	6.5
11	MP3B	Z	-55.53	6.5
12	MP3B	Mx	0.091	6.5
13	MP3C	X	164.079	1.5
14	MP3C	Z	-94.731	1.5
15	MP3C	Mx	-0.145	1.5
16	MP3C	X	164.079	6.5
17	MP3C	Z	-94.731	6.5
18	MP3C	Mx	-0.145	6.5
19	MP3A	X	100.007	1.5
20	MP3A	Z	-57.739	1.5
21	MP3A	Mx	-0.098	1.5
22	MP3A	X	100.007	6.5
23	MP3A	Z	-57.739	6.5
24	MP3A	Mx	-0.098	6.5
25	MP3B	X	96.181	1.5
26	MP3B	Z	-55.53	1.5

Member Point Loads (BLC 5 : Antenna Wo (60 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
27	MP3B	Mx	0.007	1.5
28	MP3B	X	96.181	6.5
29	MP3B	Z	-55.53	6.5
30	MP3B	Mx	0.007	6.5
31	MP3C	X	164.079	1.5
32	MP3C	Z	-94.731	1.5
33	MP3C	Mx	0.168	1.5
34	MP3C	X	164.079	6.5
35	MP3C	Z	-94.731	6.5
36	MP3C	Mx	0.168	6.5
37	MP1A	X	36.259	3
38	MP1A	Z	-20.934	3
39	MP1A	Mx	-0.018	3
40	MP1A	X	36.259	5
41	MP1A	Z	-20.934	5
42	MP1A	Mx	-0.018	5
43	MP1B	X	34.248	3
44	MP1B	Z	-19.773	3
45	MP1B	Mx	0.018	3
46	MP1B	X	34.248	5
47	MP1B	Z	-19.773	5
48	MP1B	Mx	0.018	5
49	MP1C	X	69.939	3
50	MP1C	Z	-40.379	3
51	MP1C	Mx	0.005	3
52	MP1C	X	69.939	5
53	MP1C	Z	-40.379	5
54	MP1C	Mx	0.005	5
55	MP3A	X	79.79	2.5
56	MP3A	Z	-46.067	2.5
57	MP3A	Mx	0.04	2.5
58	MP3B	X	76.246	2.5
59	MP3B	Z	-44.02	2.5
60	MP3B	Mx	-0.039	2.5
61	MP3C	X	139.145	2.5
62	MP3C	Z	-80.336	2.5
63	MP3C	Mx	-0.01	2.5
64	MP2A	X	63.635	2.5
65	MP2A	Z	-36.74	2.5
66	MP2A	Mx	0.032	2.5
67	MP2B	X	62.468	2.5
68	MP2B	Z	-36.066	2.5
69	MP2B	Mx	-0.032	2.5
70	MP2C	X	83.186	2.5
71	MP2C	Z	-48.027	2.5
72	MP2C	Mx	-0.006	2.5
73	OVP	X	109.435	1
74	OVP	Z	-63.183	1
75	OVP	Mx	0	1
76	OVP1	X	109.435	1
77	OVP1	Z	-63.183	1
78	OVP1	Mx	0	1
79	OVP2	X	109.435	1
80	OVP2	Z	-63.183	1
81	OVP2	Mx	0	1



Company :
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6/12/2025
11:59:05 AM
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Member Point Loads (BLC 5 : Antenna Wo (60 Deg)) (Continued)

Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
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Member Point Loads (BLC 6 : Antenna Wo (90 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	90.318	1.5
2	MP3A	Z	0	1.5
3	MP3A	Mx	-0.045	1.5
4	MP3A	X	90.318	6.5
5	MP3A	Z	0	6.5
6	MP3A	Mx	-0.045	6.5
7	MP3B	X	161.104	1.5
8	MP3B	Z	0	1.5
9	MP3B	Mx	0.156	1.5
10	MP3B	X	161.104	6.5
11	MP3B	Z	0	6.5
12	MP3B	Mx	0.156	6.5
13	MP3C	X	154.508	1.5
14	MP3C	Z	0	1.5
15	MP3C	Mx	-0.056	1.5
16	MP3C	X	154.508	6.5
17	MP3C	Z	0	6.5
18	MP3C	Mx	-0.056	6.5
19	MP3A	X	90.318	1.5
20	MP3A	Z	0	1.5
21	MP3A	Mx	-0.045	1.5
22	MP3A	X	90.318	6.5
23	MP3A	Z	0	6.5
24	MP3A	Mx	-0.045	6.5
25	MP3B	X	161.104	1.5
26	MP3B	Z	0	1.5
27	MP3B	Mx	-0.069	1.5
28	MP3B	X	161.104	6.5
29	MP3B	Z	0	6.5
30	MP3B	Mx	-0.069	6.5
31	MP3C	X	154.508	1.5
32	MP3C	Z	0	1.5
33	MP3C	Mx	0.149	1.5
34	MP3C	X	154.508	6.5
35	MP3C	Z	0	6.5
36	MP3C	Mx	0.149	6.5
37	MP1A	X	28.644	3
38	MP1A	Z	0	3
39	MP1A	Mx	-0.014	3
40	MP1A	X	28.644	5
41	MP1A	Z	0	5
42	MP1A	Mx	-0.014	5
43	MP1B	X	65.852	3
44	MP1B	Z	0	3
45	MP1B	Mx	0.018	3
46	MP1B	X	65.852	5
47	MP1B	Z	0	5
48	MP1B	Mx	0.018	5
49	MP1C	X	62.384	3
50	MP1C	Z	0	3
51	MP1C	Mx	0.019	3
52	MP1C	X	62.384	5
53	MP1C	Z	0	5
54	MP1C	Mx	0.019	5
55	MP3A	X	68.826	2.5

Member Point Loads (BLC 6 : Antenna Wo (90 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP3A	Z	0	2.5
57	MP3A	Mx	0.034	2.5
58	MP3B	X	134.401	2.5
59	MP3B	Z	0	2.5
60	MP3B	Mx	-0.037	2.5
61	MP3C	X	128.289	2.5
62	MP3C	Z	0	2.5
63	MP3C	Mx	-0.039	2.5
64	MP2A	X	65.803	2.5
65	MP2A	Z	0	2.5
66	MP2A	Mx	0.033	2.5
67	MP2B	X	87.402	2.5
68	MP2B	Z	0	2.5
69	MP2B	Mx	-0.024	2.5
70	MP2C	X	85.389	2.5
71	MP2C	Z	0	2.5
72	MP2C	Mx	-0.026	2.5
73	OVP	X	127.733	1
74	OVP	Z	0	1
75	OVP	Mx	0	1
76	OVP1	X	127.733	1
77	OVP1	Z	0	1
78	OVP1	Mx	0	1
79	OVP2	X	127.733	1
80	OVP2	Z	0	1
81	OVP2	Mx	0	1

Member Point Loads (BLC 7 : Antenna Wo (120 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	100.007	1.5
2	MP3A	Z	57.739	1.5
3	MP3A	Mx	-0.098	1.5
4	MP3A	X	100.007	6.5
5	MP3A	Z	57.739	6.5
6	MP3A	Mx	-0.098	6.5
7	MP3B	X	165.135	1.5
8	MP3B	Z	95.341	1.5
9	MP3B	Mx	0.164	1.5
10	MP3B	X	165.135	6.5
11	MP3B	Z	95.341	6.5
12	MP3B	Mx	0.164	6.5
13	MP3C	X	91.524	1.5
14	MP3C	Z	52.841	1.5
15	MP3C	Mx	0.014	1.5
16	MP3C	X	91.524	6.5
17	MP3C	Z	52.841	6.5
18	MP3C	Mx	0.014	6.5
19	MP3A	X	100.007	1.5
20	MP3A	Z	57.739	1.5
21	MP3A	Mx	-0.002	1.5
22	MP3A	X	100.007	6.5
23	MP3A	Z	57.739	6.5
24	MP3A	Mx	-0.002	6.5
25	MP3B	X	165.135	1.5
26	MP3B	Z	95.341	1.5

Member Point Loads (BLC 7 : Antenna Wo (120 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
27	MP3B	Mx	-0.154	1.5
28	MP3B	X	165.135	6.5
29	MP3B	Z	95.341	6.5
30	MP3B	Mx	-0.154	6.5
31	MP3C	X	91.524	1.5
32	MP3C	Z	52.841	1.5
33	MP3C	Mx	0.083	1.5
34	MP3C	X	91.524	6.5
35	MP3C	Z	52.841	6.5
36	MP3C	Mx	0.083	6.5
37	MP1A	X	36.259	3
38	MP1A	Z	20.934	3
39	MP1A	Mx	-0.018	3
40	MP1A	X	36.259	5
41	MP1A	Z	20.934	5
42	MP1A	Mx	-0.018	5
43	MP1B	X	70.494	3
44	MP1B	Z	40.7	3
45	MP1B	Mx	0.002	3
46	MP1B	X	70.494	5
47	MP1B	Z	40.7	5
48	MP1B	Mx	0.002	5
49	MP1C	X	31.8	3
50	MP1C	Z	18.36	3
51	MP1C	Mx	0.017	3
52	MP1C	X	31.8	5
53	MP1C	Z	18.36	5
54	MP1C	Mx	0.017	5
55	MP3A	X	79.79	2.5
56	MP3A	Z	46.067	2.5
57	MP3A	Mx	0.04	2.5
58	MP3B	X	140.123	2.5
59	MP3B	Z	80.9	2.5
60	MP3B	Mx	-0.004	2.5
61	MP3C	X	71.931	2.5
62	MP3C	Z	41.53	2.5
63	MP3C	Mx	-0.038	2.5
64	MP2A	X	63.635	2.5
65	MP2A	Z	36.74	2.5
66	MP2A	Mx	0.032	2.5
67	MP2B	X	83.508	2.5
68	MP2B	Z	48.213	2.5
69	MP2B	Mx	-0.003	2.5
70	MP2C	X	61.047	2.5
71	MP2C	Z	35.246	2.5
72	MP2C	Mx	-0.032	2.5
73	OVP	X	125.886	1
74	OVP	Z	72.68	1
75	OVP	Mx	0	1
76	OVP1	X	125.886	1
77	OVP1	Z	72.68	1
78	OVP1	Mx	0	1
79	OVP2	X	125.886	1
80	OVP2	Z	72.68	1
81	OVP2	Mx	0	1



Company :
Designer :
Job Number :
Model Name :

6/12/2025
11:59:05 AM
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Member Point Loads (BLC 7 : Antenna Wo (120 Deg)) (Continued)

Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
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Member Point Loads (BLC 8 : Antenna Wo (150 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	82.899	1.5
2	MP3A	Z	143.585	1.5
3	MP3A	Mx	-0.161	1.5
4	MP3A	X	82.899	6.5
5	MP3A	Z	143.585	6.5
6	MP3A	Mx	-0.161	6.5
7	MP3B	X	85.107	1.5
8	MP3B	Z	147.41	1.5
9	MP3B	Mx	0.088	1.5
10	MP3B	X	85.107	6.5
11	MP3B	Z	147.41	6.5
12	MP3B	Mx	0.088	6.5
13	MP3C	X	45.906	1.5
14	MP3C	Z	79.512	1.5
15	MP3C	Mx	0.055	1.5
16	MP3C	X	45.906	6.5
17	MP3C	Z	79.512	6.5
18	MP3C	Mx	0.055	6.5
19	MP3A	X	82.899	1.5
20	MP3A	Z	143.585	1.5
21	MP3A	Mx	0.078	1.5
22	MP3A	X	82.899	6.5
23	MP3A	Z	143.585	6.5
24	MP3A	Mx	0.078	6.5
25	MP3B	X	85.107	1.5
26	MP3B	Z	147.41	1.5
27	MP3B	Mx	-0.165	1.5
28	MP3B	X	85.107	6.5
29	MP3B	Z	147.41	6.5
30	MP3B	Mx	-0.165	6.5
31	MP3C	X	45.906	1.5
32	MP3C	Z	79.512	1.5
33	MP3C	Mx	0.036	1.5
34	MP3C	X	45.906	6.5
35	MP3C	Z	79.512	6.5
36	MP3C	Mx	0.036	6.5
37	MP1A	X	34.159	3
38	MP1A	Z	59.166	3
39	MP1A	Mx	-0.017	3
40	MP1A	X	34.159	5
41	MP1A	Z	59.166	5
42	MP1A	Mx	-0.017	5
43	MP1B	X	35.32	3
44	MP1B	Z	61.177	3
45	MP1B	Mx	-0.016	3
46	MP1B	X	35.32	5
47	MP1B	Z	61.177	5
48	MP1B	Mx	-0.016	5
49	MP1C	X	14.715	3
50	MP1C	Z	25.487	3
51	MP1C	Mx	0.015	3
52	MP1C	X	14.715	5
53	MP1C	Z	25.487	5
54	MP1C	Mx	0.015	5
55	MP3A	X	69.374	2.5

Member Point Loads (BLC 8 : Antenna Wo (150 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP3A	Z	120.159	2.5
57	MP3A	Mx	0.035	2.5
58	MP3B	X	71.42	2.5
59	MP3B	Z	123.703	2.5
60	MP3B	Mx	0.032	2.5
61	MP3C	X	35.105	2.5
62	MP3C	Z	60.804	2.5
63	MP3C	Mx	-0.035	2.5
64	MP2A	X	44.417	2.5
65	MP2A	Z	76.932	2.5
66	MP2A	Mx	0.022	2.5
67	MP2B	X	45.091	2.5
68	MP2B	Z	78.1	2.5
69	MP2B	Mx	0.02	2.5
70	MP2C	X	33.129	2.5
71	MP2C	Z	57.382	2.5
72	MP2C	Mx	-0.033	2.5
73	OVP	X	80.81	1
74	OVP	Z	139.966	1
75	OVP	Mx	0	1
76	OVP1	X	80.81	1
77	OVP1	Z	139.966	1
78	OVP1	Mx	0	1
79	OVP2	X	80.81	1
80	OVP2	Z	139.966	1
81	OVP2	Mx	0	1

Member Point Loads (BLC 9 : Antenna Wo (180 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	1.5
2	MP3A	Z	190.957	1.5
3	MP3A	Mx	-0.159	1.5
4	MP3A	X	0	6.5
5	MP3A	Z	190.957	6.5
6	MP3A	Mx	-0.159	6.5
7	MP3B	X	0	1.5
8	MP3B	Z	120.171	1.5
9	MP3B	Mx	0.004	1.5
10	MP3B	X	0	6.5
11	MP3B	Z	120.171	6.5
12	MP3B	Mx	0.004	6.5
13	MP3C	X	0	1.5
14	MP3C	Z	126.767	1.5
15	MP3C	Mx	0.114	1.5
16	MP3C	X	0	6.5
17	MP3C	Z	126.767	6.5
18	MP3C	Mx	0.114	6.5
19	MP3A	X	0	1.5
20	MP3A	Z	190.957	1.5
21	MP3A	Mx	0.159	1.5
22	MP3A	X	0	6.5
23	MP3A	Z	190.957	6.5
24	MP3A	Mx	0.159	6.5
25	MP3B	X	0	1.5
26	MP3B	Z	120.171	1.5

Member Point Loads (BLC 9 : Antenna Wo (180 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
27	MP3B	Mx	-0.105	1.5
28	MP3B	X	0	6.5
29	MP3B	Z	120.171	6.5
30	MP3B	Mx	-0.105	6.5
31	MP3C	X	0	1.5
32	MP3C	Z	126.767	1.5
33	MP3C	Mx	-0.013	1.5
34	MP3C	X	0	6.5
35	MP3C	Z	126.767	6.5
36	MP3C	Mx	-0.013	6.5
37	MP1A	X	0	3
38	MP1A	Z	81.544	3
39	MP1A	Mx	0	3
40	MP1A	X	0	5
41	MP1A	Z	81.544	5
42	MP1A	Mx	0	5
43	MP1B	X	0	3
44	MP1B	Z	44.336	3
45	MP1B	Mx	-0.019	3
46	MP1B	X	0	5
47	MP1B	Z	44.336	5
48	MP1B	Mx	-0.019	5
49	MP1C	X	0	3
50	MP1C	Z	47.803	3
51	MP1C	Mx	0.019	3
52	MP1C	X	0	5
53	MP1C	Z	47.803	5
54	MP1C	Mx	0.019	5
55	MP3A	X	0	2.5
56	MP3A	Z	162.056	2.5
57	MP3A	Mx	0	2.5
58	MP3B	X	0	2.5
59	MP3B	Z	96.481	2.5
60	MP3B	Mx	0.04	2.5
61	MP3C	X	0	2.5
62	MP3C	Z	102.592	2.5
63	MP3C	Mx	-0.041	2.5
64	MP2A	X	0	2.5
65	MP2A	Z	96.511	2.5
66	MP2A	Mx	0	2.5
67	MP2B	X	0	2.5
68	MP2B	Z	74.912	2.5
69	MP2B	Mx	0.031	2.5
70	MP2C	X	0	2.5
71	MP2C	Z	76.925	2.5
72	MP2C	Mx	-0.031	2.5
73	OVP	X	0	1
74	OVP	Z	160.251	1
75	OVP	Mx	0	1
76	OVP1	X	0	1
77	OVP1	Z	160.251	1
78	OVP1	Mx	0	1
79	OVP2	X	0	1
80	OVP2	Z	160.251	1
81	OVP2	Mx	0	1



Company :
Designer :
Job Number :
Model Name :

6/12/2025
11:59:05 AM
Checked By : _____

Member Point Loads (BLC 9 : Antenna Wo (180 Deg)) (Continued)

Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
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Member Point Loads (BLC 10 : Antenna Wo (210 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-82.899	1.5
2	MP3A	Z	143.585	1.5
3	MP3A	Mx	-0.078	1.5
4	MP3A	X	-82.899	6.5
5	MP3A	Z	143.585	6.5
6	MP3A	Mx	-0.078	6.5
7	MP3B	X	-45.297	1.5
8	MP3B	Z	78.456	1.5
9	MP3B	Mx	-0.041	1.5
10	MP3B	X	-45.297	6.5
11	MP3B	Z	78.456	6.5
12	MP3B	Mx	-0.041	6.5
13	MP3C	X	-87.796	1.5
14	MP3C	Z	152.068	1.5
15	MP3C	Mx	0.169	1.5
16	MP3C	X	-87.796	6.5
17	MP3C	Z	152.068	6.5
18	MP3C	Mx	0.169	6.5
19	MP3A	X	-82.899	1.5
20	MP3A	Z	143.585	1.5
21	MP3A	Mx	0.161	1.5
22	MP3A	X	-82.899	6.5
23	MP3A	Z	143.585	6.5
24	MP3A	Mx	0.161	6.5
25	MP3B	X	-45.297	1.5
26	MP3B	Z	78.456	1.5
27	MP3B	Mx	-0.049	1.5
28	MP3B	X	-45.297	6.5
29	MP3B	Z	78.456	6.5
30	MP3B	Mx	-0.049	6.5
31	MP3C	X	-87.796	1.5
32	MP3C	Z	152.068	1.5
33	MP3C	Mx	-0.1	1.5
34	MP3C	X	-87.796	6.5
35	MP3C	Z	152.068	6.5
36	MP3C	Mx	-0.1	6.5
37	MP1A	X	-34.159	3
38	MP1A	Z	59.166	3
39	MP1A	Mx	0.017	3
40	MP1A	X	-34.159	5
41	MP1A	Z	59.166	5
42	MP1A	Mx	0.017	5
43	MP1B	X	-14.394	3
44	MP1B	Z	24.932	3
45	MP1B	Mx	-0.014	3
46	MP1B	X	-14.394	5
47	MP1B	Z	24.932	5
48	MP1B	Mx	-0.014	5
49	MP1C	X	-36.734	3
50	MP1C	Z	63.625	3
51	MP1C	Mx	0.014	3
52	MP1C	X	-36.734	5
53	MP1C	Z	63.625	5
54	MP1C	Mx	0.014	5
55	MP3A	X	-69.374	2.5

Member Point Loads (BLC 10 : Antenna Wo (210 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP3A	Z	120.159	2.5
57	MP3A	Mx	-0.035	2.5
58	MP3B	X	-34.54	2.5
59	MP3B	Z	59.826	2.5
60	MP3B	Mx	0.034	2.5
61	MP3C	X	-73.911	2.5
62	MP3C	Z	128.018	2.5
63	MP3C	Mx	-0.029	2.5
64	MP2A	X	-44.417	2.5
65	MP2A	Z	76.932	2.5
66	MP2A	Mx	-0.022	2.5
67	MP2B	X	-32.943	2.5
68	MP2B	Z	57.06	2.5
69	MP2B	Mx	0.033	2.5
70	MP2C	X	-45.911	2.5
71	MP2C	Z	79.521	2.5
72	MP2C	Mx	-0.018	2.5
73	OVP	X	-71.312	1
74	OVP	Z	123.516	1
75	OVP	Mx	0	1
76	OVP1	X	-71.312	1
77	OVP1	Z	123.516	1
78	OVP1	Mx	0	1
79	OVP2	X	-71.312	1
80	OVP2	Z	123.516	1
81	OVP2	Mx	0	1

Member Point Loads (BLC 11 : Antenna Wo (240 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-100.007	1.5
2	MP3A	Z	57.739	1.5
3	MP3A	Mx	0.002	1.5
4	MP3A	X	-100.007	6.5
5	MP3A	Z	57.739	6.5
6	MP3A	Mx	0.002	6.5
7	MP3B	X	-96.181	1.5
8	MP3B	Z	55.53	1.5
9	MP3B	Mx	-0.091	1.5
10	MP3B	X	-96.181	6.5
11	MP3B	Z	55.53	6.5
12	MP3B	Mx	-0.091	6.5
13	MP3C	X	-164.079	1.5
14	MP3C	Z	94.731	1.5
15	MP3C	Mx	0.145	1.5
16	MP3C	X	-164.079	6.5
17	MP3C	Z	94.731	6.5
18	MP3C	Mx	0.145	6.5
19	MP3A	X	-100.007	1.5
20	MP3A	Z	57.739	1.5
21	MP3A	Mx	0.098	1.5
22	MP3A	X	-100.007	6.5
23	MP3A	Z	57.739	6.5
24	MP3A	Mx	0.098	6.5
25	MP3B	X	-96.181	1.5
26	MP3B	Z	55.53	1.5

Member Point Loads (BLC 11 : Antenna Wo (240 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
27	MP3B	Mx	-0.007	1.5
28	MP3B	X	-96.181	6.5
29	MP3B	Z	55.53	6.5
30	MP3B	Mx	-0.007	6.5
31	MP3C	X	-164.079	1.5
32	MP3C	Z	94.731	1.5
33	MP3C	Mx	-0.168	1.5
34	MP3C	X	-164.079	6.5
35	MP3C	Z	94.731	6.5
36	MP3C	Mx	-0.168	6.5
37	MP1A	X	-36.259	3
38	MP1A	Z	20.934	3
39	MP1A	Mx	0.018	3
40	MP1A	X	-36.259	5
41	MP1A	Z	20.934	5
42	MP1A	Mx	0.018	5
43	MP1B	X	-34.248	3
44	MP1B	Z	19.773	3
45	MP1B	Mx	-0.018	3
46	MP1B	X	-34.248	5
47	MP1B	Z	19.773	5
48	MP1B	Mx	-0.018	5
49	MP1C	X	-69.939	3
50	MP1C	Z	40.379	3
51	MP1C	Mx	-0.005	3
52	MP1C	X	-69.939	5
53	MP1C	Z	40.379	5
54	MP1C	Mx	-0.005	5
55	MP3A	X	-79.79	2.5
56	MP3A	Z	46.067	2.5
57	MP3A	Mx	-0.04	2.5
58	MP3B	X	-76.246	2.5
59	MP3B	Z	44.02	2.5
60	MP3B	Mx	0.039	2.5
61	MP3C	X	-139.145	2.5
62	MP3C	Z	80.336	2.5
63	MP3C	Mx	0.01	2.5
64	MP2A	X	-63.635	2.5
65	MP2A	Z	36.74	2.5
66	MP2A	Mx	-0.032	2.5
67	MP2B	X	-62.468	2.5
68	MP2B	Z	36.066	2.5
69	MP2B	Mx	0.032	2.5
70	MP2C	X	-83.186	2.5
71	MP2C	Z	48.027	2.5
72	MP2C	Mx	0.006	2.5
73	OVP	X	-109.435	1
74	OVP	Z	63.183	1
75	OVP	Mx	0	1
76	OVP1	X	-109.435	1
77	OVP1	Z	63.183	1
78	OVP1	Mx	0	1
79	OVP2	X	-109.435	1
80	OVP2	Z	63.183	1
81	OVP2	Mx	0	1



Company :
Designer :
Job Number :
Model Name :

6/12/2025
11:59:05 AM
Checked By : _____

Member Point Loads (BLC 11 : Antenna Wo (240 Deg)) (Continued)

Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
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Member Point Loads (BLC 12 : Antenna Wo (270 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-90.318	1.5
2	MP3A	Z	0	1.5
3	MP3A	Mx	0.045	1.5
4	MP3A	X	-90.318	6.5
5	MP3A	Z	0	6.5
6	MP3A	Mx	0.045	6.5
7	MP3B	X	-161.104	1.5
8	MP3B	Z	0	1.5
9	MP3B	Mx	-0.156	1.5
10	MP3B	X	-161.104	6.5
11	MP3B	Z	0	6.5
12	MP3B	Mx	-0.156	6.5
13	MP3C	X	-154.508	1.5
14	MP3C	Z	0	1.5
15	MP3C	Mx	0.056	1.5
16	MP3C	X	-154.508	6.5
17	MP3C	Z	0	6.5
18	MP3C	Mx	0.056	6.5
19	MP3A	X	-90.318	1.5
20	MP3A	Z	0	1.5
21	MP3A	Mx	0.045	1.5
22	MP3A	X	-90.318	6.5
23	MP3A	Z	0	6.5
24	MP3A	Mx	0.045	6.5
25	MP3B	X	-161.104	1.5
26	MP3B	Z	0	1.5
27	MP3B	Mx	0.069	1.5
28	MP3B	X	-161.104	6.5
29	MP3B	Z	0	6.5
30	MP3B	Mx	0.069	6.5
31	MP3C	X	-154.508	1.5
32	MP3C	Z	0	1.5
33	MP3C	Mx	-0.149	1.5
34	MP3C	X	-154.508	6.5
35	MP3C	Z	0	6.5
36	MP3C	Mx	-0.149	6.5
37	MP1A	X	-28.644	3
38	MP1A	Z	0	3
39	MP1A	Mx	0.014	3
40	MP1A	X	-28.644	5
41	MP1A	Z	0	5
42	MP1A	Mx	0.014	5
43	MP1B	X	-65.852	3
44	MP1B	Z	0	3
45	MP1B	Mx	-0.018	3
46	MP1B	X	-65.852	5
47	MP1B	Z	0	5
48	MP1B	Mx	-0.018	5
49	MP1C	X	-62.384	3
50	MP1C	Z	0	3
51	MP1C	Mx	-0.019	3
52	MP1C	X	-62.384	5
53	MP1C	Z	0	5
54	MP1C	Mx	-0.019	5
55	MP3A	X	-68.826	2.5

Member Point Loads (BLC 12 : Antenna Wo (270 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP3A	Z	0	2.5
57	MP3A	Mx	-0.034	2.5
58	MP3B	X	-134.401	2.5
59	MP3B	Z	0	2.5
60	MP3B	Mx	0.037	2.5
61	MP3C	X	-128.289	2.5
62	MP3C	Z	0	2.5
63	MP3C	Mx	0.039	2.5
64	MP2A	X	-65.803	2.5
65	MP2A	Z	0	2.5
66	MP2A	Mx	-0.033	2.5
67	MP2B	X	-87.402	2.5
68	MP2B	Z	0	2.5
69	MP2B	Mx	0.024	2.5
70	MP2C	X	-85.389	2.5
71	MP2C	Z	0	2.5
72	MP2C	Mx	0.026	2.5
73	OVP	X	-127.733	1
74	OVP	Z	0	1
75	OVP	Mx	0	1
76	OVP1	X	-127.733	1
77	OVP1	Z	0	1
78	OVP1	Mx	0	1
79	OVP2	X	-127.733	1
80	OVP2	Z	0	1
81	OVP2	Mx	0	1

Member Point Loads (BLC 13 : Antenna Wo (300 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-100.007	1.5
2	MP3A	Z	-57.739	1.5
3	MP3A	Mx	0.098	1.5
4	MP3A	X	-100.007	6.5
5	MP3A	Z	-57.739	6.5
6	MP3A	Mx	0.098	6.5
7	MP3B	X	-165.135	1.5
8	MP3B	Z	-95.341	1.5
9	MP3B	Mx	-0.164	1.5
10	MP3B	X	-165.135	6.5
11	MP3B	Z	-95.341	6.5
12	MP3B	Mx	-0.164	6.5
13	MP3C	X	-91.524	1.5
14	MP3C	Z	-52.841	1.5
15	MP3C	Mx	-0.014	1.5
16	MP3C	X	-91.524	6.5
17	MP3C	Z	-52.841	6.5
18	MP3C	Mx	-0.014	6.5
19	MP3A	X	-100.007	1.5
20	MP3A	Z	-57.739	1.5
21	MP3A	Mx	0.002	1.5
22	MP3A	X	-100.007	6.5
23	MP3A	Z	-57.739	6.5
24	MP3A	Mx	0.002	6.5
25	MP3B	X	-165.135	1.5
26	MP3B	Z	-95.341	1.5

Member Point Loads (BLC 13 : Antenna Wo (300 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
27	MP3B	Mx	0.154	1.5
28	MP3B	X	-165.135	6.5
29	MP3B	Z	-95.341	6.5
30	MP3B	Mx	0.154	6.5
31	MP3C	X	-91.524	1.5
32	MP3C	Z	-52.841	1.5
33	MP3C	Mx	-0.083	1.5
34	MP3C	X	-91.524	6.5
35	MP3C	Z	-52.841	6.5
36	MP3C	Mx	-0.083	6.5
37	MP1A	X	-36.259	3
38	MP1A	Z	-20.934	3
39	MP1A	Mx	0.018	3
40	MP1A	X	-36.259	5
41	MP1A	Z	-20.934	5
42	MP1A	Mx	0.018	5
43	MP1B	X	-70.494	3
44	MP1B	Z	-40.7	3
45	MP1B	Mx	-0.002	3
46	MP1B	X	-70.494	5
47	MP1B	Z	-40.7	5
48	MP1B	Mx	-0.002	5
49	MP1C	X	-31.8	3
50	MP1C	Z	-18.36	3
51	MP1C	Mx	-0.017	3
52	MP1C	X	-31.8	5
53	MP1C	Z	-18.36	5
54	MP1C	Mx	-0.017	5
55	MP3A	X	-79.79	2.5
56	MP3A	Z	-46.067	2.5
57	MP3A	Mx	-0.04	2.5
58	MP3B	X	-140.123	2.5
59	MP3B	Z	-80.9	2.5
60	MP3B	Mx	0.004	2.5
61	MP3C	X	-71.931	2.5
62	MP3C	Z	-41.53	2.5
63	MP3C	Mx	0.038	2.5
64	MP2A	X	-63.635	2.5
65	MP2A	Z	-36.74	2.5
66	MP2A	Mx	-0.032	2.5
67	MP2B	X	-83.508	2.5
68	MP2B	Z	-48.213	2.5
69	MP2B	Mx	0.003	2.5
70	MP2C	X	-61.047	2.5
71	MP2C	Z	-35.246	2.5
72	MP2C	Mx	0.032	2.5
73	OVP	X	-125.886	1
74	OVP	Z	-72.68	1
75	OVP	Mx	0	1
76	OVP1	X	-125.886	1
77	OVP1	Z	-72.68	1
78	OVP1	Mx	0	1
79	OVP2	X	-125.886	1
80	OVP2	Z	-72.68	1
81	OVP2	Mx	0	1



Company :
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Model Name :

6/12/2025
11:59:05 AM
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Member Point Loads (BLC 13 : Antenna Wo (300 Deg)) (Continued)

Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
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Member Point Loads (BLC 14 : Antenna Wo (330 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-82.899	1.5
2	MP3A	Z	-143.585	1.5
3	MP3A	Mx	0.161	1.5
4	MP3A	X	-82.899	6.5
5	MP3A	Z	-143.585	6.5
6	MP3A	Mx	0.161	6.5
7	MP3B	X	-85.107	1.5
8	MP3B	Z	-147.41	1.5
9	MP3B	Mx	-0.088	1.5
10	MP3B	X	-85.107	6.5
11	MP3B	Z	-147.41	6.5
12	MP3B	Mx	-0.088	6.5
13	MP3C	X	-45.906	1.5
14	MP3C	Z	-79.512	1.5
15	MP3C	Mx	-0.055	1.5
16	MP3C	X	-45.906	6.5
17	MP3C	Z	-79.512	6.5
18	MP3C	Mx	-0.055	6.5
19	MP3A	X	-82.899	1.5
20	MP3A	Z	-143.585	1.5
21	MP3A	Mx	-0.078	1.5
22	MP3A	X	-82.899	6.5
23	MP3A	Z	-143.585	6.5
24	MP3A	Mx	-0.078	6.5
25	MP3B	X	-85.107	1.5
26	MP3B	Z	-147.41	1.5
27	MP3B	Mx	0.165	1.5
28	MP3B	X	-85.107	6.5
29	MP3B	Z	-147.41	6.5
30	MP3B	Mx	0.165	6.5
31	MP3C	X	-45.906	1.5
32	MP3C	Z	-79.512	1.5
33	MP3C	Mx	-0.036	1.5
34	MP3C	X	-45.906	6.5
35	MP3C	Z	-79.512	6.5
36	MP3C	Mx	-0.036	6.5
37	MP1A	X	-34.159	3
38	MP1A	Z	-59.166	3
39	MP1A	Mx	0.017	3
40	MP1A	X	-34.159	5
41	MP1A	Z	-59.166	5
42	MP1A	Mx	0.017	5
43	MP1B	X	-35.32	3
44	MP1B	Z	-61.177	3
45	MP1B	Mx	0.016	3
46	MP1B	X	-35.32	5
47	MP1B	Z	-61.177	5
48	MP1B	Mx	0.016	5
49	MP1C	X	-14.715	3
50	MP1C	Z	-25.487	3
51	MP1C	Mx	-0.015	3
52	MP1C	X	-14.715	5
53	MP1C	Z	-25.487	5
54	MP1C	Mx	-0.015	5
55	MP3A	X	-69.374	2.5

Member Point Loads (BLC 14 : Antenna Wo (330 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP3A	Z	-120.159	2.5
57	MP3A	Mx	-0.035	2.5
58	MP3B	X	-71.42	2.5
59	MP3B	Z	-123.703	2.5
60	MP3B	Mx	-0.032	2.5
61	MP3C	X	-35.105	2.5
62	MP3C	Z	-60.804	2.5
63	MP3C	Mx	0.035	2.5
64	MP2A	X	-44.417	2.5
65	MP2A	Z	-76.932	2.5
66	MP2A	Mx	-0.022	2.5
67	MP2B	X	-45.091	2.5
68	MP2B	Z	-78.1	2.5
69	MP2B	Mx	-0.02	2.5
70	MP2C	X	-33.129	2.5
71	MP2C	Z	-57.382	2.5
72	MP2C	Mx	0.033	2.5
73	OVP	X	-80.81	1
74	OVP	Z	-139.966	1
75	OVP	Mx	0	1
76	OVP1	X	-80.81	1
77	OVP1	Z	-139.966	1
78	OVP1	Mx	0	1
79	OVP2	X	-80.81	1
80	OVP2	Z	-139.966	1
81	OVP2	Mx	0	1

Member Point Loads (BLC 15 : Antenna Wi (0 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	1.5
2	MP3A	Z	-48.533	1.5
3	MP3A	Mx	0.04	1.5
4	MP3A	X	0	6.5
5	MP3A	Z	-48.533	6.5
6	MP3A	Mx	0.04	6.5
7	MP3B	X	0	1.5
8	MP3B	Z	-38.505	1.5
9	MP3B	Mx	-0.001	1.5
10	MP3B	X	0	6.5
11	MP3B	Z	-38.505	6.5
12	MP3B	Mx	-0.001	6.5
13	MP3C	X	0	1.5
14	MP3C	Z	-39.439	1.5
15	MP3C	Mx	-0.036	1.5
16	MP3C	X	0	6.5
17	MP3C	Z	-39.439	6.5
18	MP3C	Mx	-0.036	6.5
19	MP3A	X	0	1.5
20	MP3A	Z	-48.533	1.5
21	MP3A	Mx	-0.04	1.5
22	MP3A	X	0	6.5
23	MP3A	Z	-48.533	6.5
24	MP3A	Mx	-0.04	6.5
25	MP3B	X	0	1.5
26	MP3B	Z	-38.505	1.5

Member Point Loads (BLC 15 : Antenna Wi (0 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
27	MP3B	Mx	0.034	1.5
28	MP3B	X	0	6.5
29	MP3B	Z	-38.505	6.5
30	MP3B	Mx	0.034	6.5
31	MP3C	X	0	1.5
32	MP3C	Z	-39.439	1.5
33	MP3C	Mx	0.004	1.5
34	MP3C	X	0	6.5
35	MP3C	Z	-39.439	6.5
36	MP3C	Mx	0.004	6.5
37	MP1A	X	0	3
38	MP1A	Z	-16.57	3
39	MP1A	Mx	0	3
40	MP1A	X	0	5
41	MP1A	Z	-16.57	5
42	MP1A	Mx	0	5
43	MP1B	X	0	3
44	MP1B	Z	-9.843	3
45	MP1B	Mx	0.004	3
46	MP1B	X	0	5
47	MP1B	Z	-9.843	5
48	MP1B	Mx	0.004	5
49	MP1C	X	0	3
50	MP1C	Z	-10.47	3
51	MP1C	Mx	-0.004	3
52	MP1C	X	0	5
53	MP1C	Z	-10.47	5
54	MP1C	Mx	-0.004	5
55	MP3A	X	0	2.5
56	MP3A	Z	-27.596	2.5
57	MP3A	Mx	0	2.5
58	MP3B	X	0	2.5
59	MP3B	Z	-17.136	2.5
60	MP3B	Mx	-0.007	2.5
61	MP3C	X	0	2.5
62	MP3C	Z	-18.111	2.5
63	MP3C	Mx	0.007	2.5
64	MP2A	X	0	2.5
65	MP2A	Z	-17.126	2.5
66	MP2A	Mx	0	2.5
67	MP2B	X	0	2.5
68	MP2B	Z	-13.611	2.5
69	MP2B	Mx	-0.006	2.5
70	MP2C	X	0	2.5
71	MP2C	Z	-13.938	2.5
72	MP2C	Mx	0.006	2.5
73	OVP	X	0	1
74	OVP	Z	-34.515	1
75	OVP	Mx	0	1
76	OVP1	X	0	1
77	OVP1	Z	-34.515	1
78	OVP1	Mx	0	1
79	OVP2	X	0	1
80	OVP2	Z	-34.515	1
81	OVP2	Mx	0	1



Company :
Designer :
Job Number :
Model Name :

6/12/2025
11:59:05 AM
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Member Point Loads (BLC 15 : Antenna Wi (0 Deg)) (Continued)

Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
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Member Point Loads (BLC 16 : Antenna Wi (30 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	22.484	1.5
2	MP3A	Z	-38.944	1.5
3	MP3A	Mx	0.021	1.5
4	MP3A	X	22.484	6.5
5	MP3A	Z	-38.944	6.5
6	MP3A	Mx	0.021	6.5
7	MP3B	X	17.157	1.5
8	MP3B	Z	-29.717	1.5
9	MP3B	Mx	0.016	1.5
10	MP3B	X	17.157	6.5
11	MP3B	Z	-29.717	6.5
12	MP3B	Mx	0.016	6.5
13	MP3C	X	23.178	1.5
14	MP3C	Z	-40.146	1.5
15	MP3C	Mx	-0.045	1.5
16	MP3C	X	23.178	6.5
17	MP3C	Z	-40.146	6.5
18	MP3C	Mx	-0.045	6.5
19	MP3A	X	22.484	1.5
20	MP3A	Z	-38.944	1.5
21	MP3A	Mx	-0.044	1.5
22	MP3A	X	22.484	6.5
23	MP3A	Z	-38.944	6.5
24	MP3A	Mx	-0.044	6.5
25	MP3B	X	17.157	1.5
26	MP3B	Z	-29.717	1.5
27	MP3B	Mx	0.019	1.5
28	MP3B	X	17.157	6.5
29	MP3B	Z	-29.717	6.5
30	MP3B	Mx	0.019	6.5
31	MP3C	X	23.178	1.5
32	MP3C	Z	-40.146	1.5
33	MP3C	Mx	0.027	1.5
34	MP3C	X	23.178	6.5
35	MP3C	Z	-40.146	6.5
36	MP3C	Mx	0.027	6.5
37	MP1A	X	7.09	3
38	MP1A	Z	-12.279	3
39	MP1A	Mx	-0.004	3
40	MP1A	X	7.09	5
41	MP1A	Z	-12.279	5
42	MP1A	Mx	-0.004	5
43	MP1B	X	3.516	3
44	MP1B	Z	-6.09	3
45	MP1B	Mx	0.004	3
46	MP1B	X	3.516	5
47	MP1B	Z	-6.09	5
48	MP1B	Mx	0.004	5
49	MP1C	X	7.555	3
50	MP1C	Z	-13.086	3
51	MP1C	Mx	-0.003	3
52	MP1C	X	7.555	5
53	MP1C	Z	-13.086	5
54	MP1C	Mx	-0.003	5
55	MP3A	X	11.939	2.5

Member Point Loads (BLC 16 : Antenna Wi (30 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP3A	Z	-20.679	2.5
57	MP3A	Mx	0.006	2.5
58	MP3B	X	6.382	2.5
59	MP3B	Z	-11.055	2.5
60	MP3B	Mx	-0.006	2.5
61	MP3C	X	12.663	2.5
62	MP3C	Z	-21.933	2.5
63	MP3C	Mx	0.005	2.5
64	MP2A	X	7.938	2.5
65	MP2A	Z	-13.75	2.5
66	MP2A	Mx	0.004	2.5
67	MP2B	X	6.071	2.5
68	MP2B	Z	-10.515	2.5
69	MP2B	Mx	-0.006	2.5
70	MP2C	X	8.182	2.5
71	MP2C	Z	-14.171	2.5
72	MP2C	Mx	0.003	2.5
73	OVP	X	15.537	1
74	OVP	Z	-26.91	1
75	OVP	Mx	0	1
76	OVP1	X	15.537	1
77	OVP1	Z	-26.91	1
78	OVP1	Mx	0	1
79	OVP2	X	15.537	1
80	OVP2	Z	-26.91	1
81	OVP2	Mx	0	1

Member Point Loads (BLC 17 : Antenna Wi (60 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	32.77	1.5
2	MP3A	Z	-18.92	1.5
3	MP3A	Mx	-0.000618	1.5
4	MP3A	X	32.77	6.5
5	MP3A	Z	-18.92	6.5
6	MP3A	Mx	-0.000618	6.5
7	MP3B	X	32.228	1.5
8	MP3B	Z	-18.607	1.5
9	MP3B	Mx	0.031	1.5
10	MP3B	X	32.228	6.5
11	MP3B	Z	-18.607	6.5
12	MP3B	Mx	0.031	6.5
13	MP3C	X	41.847	1.5
14	MP3C	Z	-24.16	1.5
15	MP3C	Mx	-0.037	1.5
16	MP3C	X	41.847	6.5
17	MP3C	Z	-24.16	6.5
18	MP3C	Mx	-0.037	6.5
19	MP3A	X	32.77	1.5
20	MP3A	Z	-18.92	1.5
21	MP3A	Mx	-0.032	1.5
22	MP3A	X	32.77	6.5
23	MP3A	Z	-18.92	6.5
24	MP3A	Mx	-0.032	6.5
25	MP3B	X	32.228	1.5
26	MP3B	Z	-18.607	1.5

Member Point Loads (BLC 17 : Antenna Wi (60 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
27	MP3B	Mx	0.003	1.5
28	MP3B	X	32.228	6.5
29	MP3B	Z	-18.607	6.5
30	MP3B	Mx	0.003	6.5
31	MP3C	X	41.847	1.5
32	MP3C	Z	-24.16	1.5
33	MP3C	Mx	0.043	1.5
34	MP3C	X	41.847	6.5
35	MP3C	Z	-24.16	6.5
36	MP3C	Mx	0.043	6.5
37	MP1A	X	8.138	3
38	MP1A	Z	-4.699	3
39	MP1A	Mx	-0.004	3
40	MP1A	X	8.138	5
41	MP1A	Z	-4.699	5
42	MP1A	Mx	-0.004	5
43	MP1B	X	7.775	3
44	MP1B	Z	-4.489	3
45	MP1B	Mx	0.004	3
46	MP1B	X	7.775	5
47	MP1B	Z	-4.489	5
48	MP1B	Mx	0.004	5
49	MP1C	X	14.227	3
50	MP1C	Z	-8.214	3
51	MP1C	Mx	0.001	3
52	MP1C	X	14.227	5
53	MP1C	Z	-8.214	5
54	MP1C	Mx	0.001	5
55	MP3A	X	14.239	2.5
56	MP3A	Z	-8.221	2.5
57	MP3A	Mx	0.007	2.5
58	MP3B	X	13.674	2.5
59	MP3B	Z	-7.895	2.5
60	MP3B	Mx	-0.007	2.5
61	MP3C	X	23.708	2.5
62	MP3C	Z	-13.688	2.5
63	MP3C	Mx	-0.002	2.5
64	MP2A	X	11.585	2.5
65	MP2A	Z	-6.689	2.5
66	MP2A	Mx	0.006	2.5
67	MP2B	X	11.395	2.5
68	MP2B	Z	-6.579	2.5
69	MP2B	Mx	-0.006	2.5
70	MP2C	X	14.767	2.5
71	MP2C	Z	-8.526	2.5
72	MP2C	Mx	-0.001	2.5
73	OVP	X	24.161	1
74	OVP	Z	-13.949	1
75	OVP	Mx	0	1
76	OVP1	X	24.161	1
77	OVP1	Z	-13.949	1
78	OVP1	Mx	0	1
79	OVP2	X	24.161	1
80	OVP2	Z	-13.949	1
81	OVP2	Mx	0	1



Company :
Designer :
Job Number :
Model Name :

6/12/2025
11:59:05 AM
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Member Point Loads (BLC 17 : Antenna Wi (60 Deg)) (Continued)

Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
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Member Point Loads (BLC 18 : Antenna Wi (90 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	34.276	1.5
2	MP3A	Z	0	1.5
3	MP3A	Mx	-0.017	1.5
4	MP3A	X	34.276	6.5
5	MP3A	Z	0	6.5
6	MP3A	Mx	-0.017	6.5
7	MP3B	X	44.304	1.5
8	MP3B	Z	0	1.5
9	MP3B	Mx	0.043	1.5
10	MP3B	X	44.304	6.5
11	MP3B	Z	0	6.5
12	MP3B	Mx	0.043	6.5
13	MP3C	X	43.369	1.5
14	MP3C	Z	0	1.5
15	MP3C	Mx	-0.016	1.5
16	MP3C	X	43.369	6.5
17	MP3C	Z	0	6.5
18	MP3C	Mx	-0.016	6.5
19	MP3A	X	34.276	1.5
20	MP3A	Z	0	1.5
21	MP3A	Mx	-0.017	1.5
22	MP3A	X	34.276	6.5
23	MP3A	Z	0	6.5
24	MP3A	Mx	-0.017	6.5
25	MP3B	X	44.304	1.5
26	MP3B	Z	0	1.5
27	MP3B	Mx	-0.019	1.5
28	MP3B	X	44.304	6.5
29	MP3B	Z	0	6.5
30	MP3B	Mx	-0.019	6.5
31	MP3C	X	43.369	1.5
32	MP3C	Z	0	1.5
33	MP3C	Mx	0.042	1.5
34	MP3C	X	43.369	6.5
35	MP3C	Z	0	6.5
36	MP3C	Mx	0.042	6.5
37	MP1A	X	7.006	3
38	MP1A	Z	0	3
39	MP1A	Mx	-0.004	3
40	MP1A	X	7.006	5
41	MP1A	Z	0	5
42	MP1A	Mx	-0.004	5
43	MP1B	X	13.733	3
44	MP1B	Z	0	3
45	MP1B	Mx	0.004	3
46	MP1B	X	13.733	5
47	MP1B	Z	0	5
48	MP1B	Mx	0.004	5
49	MP1C	X	13.106	3
50	MP1C	Z	0	3
51	MP1C	Mx	0.004	3
52	MP1C	X	13.106	5
53	MP1C	Z	0	5
54	MP1C	Mx	0.004	5
55	MP3A	X	12.724	2.5

Member Point Loads (BLC 18 : Antenna Wi (90 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP3A	Z	0	2.5
57	MP3A	Mx	0.006	2.5
58	MP3B	X	23.185	2.5
59	MP3B	Z	0	2.5
60	MP3B	Mx	-0.006	2.5
61	MP3C	X	22.21	2.5
62	MP3C	Z	0	2.5
63	MP3C	Mx	-0.007	2.5
64	MP2A	X	12.128	2.5
65	MP2A	Z	0	2.5
66	MP2A	Mx	0.006	2.5
67	MP2B	X	15.643	2.5
68	MP2B	Z	0	2.5
69	MP2B	Mx	-0.004	2.5
70	MP2C	X	15.316	2.5
71	MP2C	Z	0	2.5
72	MP2C	Mx	-0.005	2.5
73	OVP	X	28.166	1
74	OVP	Z	0	1
75	OVP	Mx	0	1
76	OVP1	X	28.166	1
77	OVP1	Z	0	1
78	OVP1	Mx	0	1
79	OVP2	X	28.166	1
80	OVP2	Z	0	1
81	OVP2	Mx	0	1

Member Point Loads (BLC 19 : Antenna Wi (120 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	32.77	1.5
2	MP3A	Z	18.92	1.5
3	MP3A	Mx	-0.032	1.5
4	MP3A	X	32.77	6.5
5	MP3A	Z	18.92	6.5
6	MP3A	Mx	-0.032	6.5
7	MP3B	X	41.997	1.5
8	MP3B	Z	24.247	1.5
9	MP3B	Mx	0.042	1.5
10	MP3B	X	41.997	6.5
11	MP3B	Z	24.247	6.5
12	MP3B	Mx	0.042	6.5
13	MP3C	X	31.569	1.5
14	MP3C	Z	18.226	1.5
15	MP3C	Mx	0.005	1.5
16	MP3C	X	31.569	6.5
17	MP3C	Z	18.226	6.5
18	MP3C	Mx	0.005	6.5
19	MP3A	X	32.77	1.5
20	MP3A	Z	18.92	1.5
21	MP3A	Mx	-0.000618	1.5
22	MP3A	X	32.77	6.5
23	MP3A	Z	18.92	6.5
24	MP3A	Mx	-0.000618	6.5
25	MP3B	X	41.997	1.5
26	MP3B	Z	24.247	1.5

Member Point Loads (BLC 19 : Antenna Wi (120 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
27	MP3B	Mx	-0.039	1.5
28	MP3B	X	41.997	6.5
29	MP3B	Z	24.247	6.5
30	MP3B	Mx	-0.039	6.5
31	MP3C	X	31.569	1.5
32	MP3C	Z	18.226	1.5
33	MP3C	Mx	0.029	1.5
34	MP3C	X	31.569	6.5
35	MP3C	Z	18.226	6.5
36	MP3C	Mx	0.029	6.5
37	MP1A	X	8.138	3
38	MP1A	Z	4.699	3
39	MP1A	Mx	-0.004	3
40	MP1A	X	8.138	5
41	MP1A	Z	4.699	5
42	MP1A	Mx	-0.004	5
43	MP1B	X	14.327	3
44	MP1B	Z	8.272	3
45	MP1B	Mx	0.000433	3
46	MP1B	X	14.327	5
47	MP1B	Z	8.272	5
48	MP1B	Mx	0.000433	5
49	MP1C	X	7.332	3
50	MP1C	Z	4.233	3
51	MP1C	Mx	0.004	3
52	MP1C	X	7.332	5
53	MP1C	Z	4.233	5
54	MP1C	Mx	0.004	5
55	MP3A	X	14.239	2.5
56	MP3A	Z	8.221	2.5
57	MP3A	Mx	0.007	2.5
58	MP3B	X	23.864	2.5
59	MP3B	Z	13.778	2.5
60	MP3B	Mx	-0.000721	2.5
61	MP3C	X	12.986	2.5
62	MP3C	Z	7.497	2.5
63	MP3C	Mx	-0.007	2.5
64	MP2A	X	11.585	2.5
65	MP2A	Z	6.689	2.5
66	MP2A	Mx	0.006	2.5
67	MP2B	X	14.82	2.5
68	MP2B	Z	8.556	2.5
69	MP2B	Mx	-0.000448	2.5
70	MP2C	X	11.164	2.5
71	MP2C	Z	6.446	2.5
72	MP2C	Mx	-0.006	2.5
73	OVP	X	27.373	1
74	OVP	Z	15.804	1
75	OVP	Mx	0	1
76	OVP1	X	27.373	1
77	OVP1	Z	15.804	1
78	OVP1	Mx	0	1
79	OVP2	X	27.373	1
80	OVP2	Z	15.804	1
81	OVP2	Mx	0	1



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6/12/2025
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Member Point Loads (BLC 19 : Antenna Wi (120 Deg)) (Continued)

Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
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Member Point Loads (BLC 20 : Antenna Wi (150 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	22.484	1.5
2	MP3A	Z	38.944	1.5
3	MP3A	Mx	-0.044	1.5
4	MP3A	X	22.484	6.5
5	MP3A	Z	38.944	6.5
6	MP3A	Mx	-0.044	6.5
7	MP3B	X	22.797	1.5
8	MP3B	Z	39.486	1.5
9	MP3B	Mx	0.024	1.5
10	MP3B	X	22.797	6.5
11	MP3B	Z	39.486	6.5
12	MP3B	Mx	0.024	6.5
13	MP3C	X	17.244	1.5
14	MP3C	Z	29.867	1.5
15	MP3C	Mx	0.021	1.5
16	MP3C	X	17.244	6.5
17	MP3C	Z	29.867	6.5
18	MP3C	Mx	0.021	6.5
19	MP3A	X	22.484	1.5
20	MP3A	Z	38.944	1.5
21	MP3A	Mx	0.021	1.5
22	MP3A	X	22.484	6.5
23	MP3A	Z	38.944	6.5
24	MP3A	Mx	0.021	6.5
25	MP3B	X	22.797	1.5
26	MP3B	Z	39.486	1.5
27	MP3B	Mx	-0.044	1.5
28	MP3B	X	22.797	6.5
29	MP3B	Z	39.486	6.5
30	MP3B	Mx	-0.044	6.5
31	MP3C	X	17.244	1.5
32	MP3C	Z	29.867	1.5
33	MP3C	Mx	0.014	1.5
34	MP3C	X	17.244	6.5
35	MP3C	Z	29.867	6.5
36	MP3C	Mx	0.014	6.5
37	MP1A	X	7.09	3
38	MP1A	Z	12.279	3
39	MP1A	Mx	-0.004	3
40	MP1A	X	7.09	5
41	MP1A	Z	12.279	5
42	MP1A	Mx	-0.004	5
43	MP1B	X	7.299	3
44	MP1B	Z	12.643	3
45	MP1B	Mx	-0.003	3
46	MP1B	X	7.299	5
47	MP1B	Z	12.643	5
48	MP1B	Mx	-0.003	5
49	MP1C	X	3.574	3
50	MP1C	Z	6.191	3
51	MP1C	Mx	0.004	3
52	MP1C	X	3.574	5
53	MP1C	Z	6.191	5
54	MP1C	Mx	0.004	5
55	MP3A	X	11.939	2.5

Member Point Loads (BLC 20 : Antenna Wi (150 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP3A	Z	20.679	2.5
57	MP3A	Mx	0.006	2.5
58	MP3B	X	12.266	2.5
59	MP3B	Z	21.245	2.5
60	MP3B	Mx	0.006	2.5
61	MP3C	X	6.472	2.5
62	MP3C	Z	11.211	2.5
63	MP3C	Mx	-0.006	2.5
64	MP2A	X	7.938	2.5
65	MP2A	Z	13.75	2.5
66	MP2A	Mx	0.004	2.5
67	MP2B	X	8.048	2.5
68	MP2B	Z	13.939	2.5
69	MP2B	Mx	0.004	2.5
70	MP2C	X	6.101	2.5
71	MP2C	Z	10.568	2.5
72	MP2C	Mx	-0.006	2.5
73	OVP	X	17.391	1
74	OVP	Z	30.122	1
75	OVP	Mx	0	1
76	OVP1	X	17.391	1
77	OVP1	Z	30.122	1
78	OVP1	Mx	0	1
79	OVP2	X	17.391	1
80	OVP2	Z	30.122	1
81	OVP2	Mx	0	1

Member Point Loads (BLC 21 : Antenna Wi (180 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	1.5
2	MP3A	Z	48.533	1.5
3	MP3A	Mx	-0.04	1.5
4	MP3A	X	0	6.5
5	MP3A	Z	48.533	6.5
6	MP3A	Mx	-0.04	6.5
7	MP3B	X	0	1.5
8	MP3B	Z	38.505	1.5
9	MP3B	Mx	0.001	1.5
10	MP3B	X	0	6.5
11	MP3B	Z	38.505	6.5
12	MP3B	Mx	0.001	6.5
13	MP3C	X	0	1.5
14	MP3C	Z	39.439	1.5
15	MP3C	Mx	0.036	1.5
16	MP3C	X	0	6.5
17	MP3C	Z	39.439	6.5
18	MP3C	Mx	0.036	6.5
19	MP3A	X	0	1.5
20	MP3A	Z	48.533	1.5
21	MP3A	Mx	0.04	1.5
22	MP3A	X	0	6.5
23	MP3A	Z	48.533	6.5
24	MP3A	Mx	0.04	6.5
25	MP3B	X	0	1.5
26	MP3B	Z	38.505	1.5

Member Point Loads (BLC 21 : Antenna Wi (180 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
27	MP3B	Mx	-0.034	1.5
28	MP3B	X	0	6.5
29	MP3B	Z	38.505	6.5
30	MP3B	Mx	-0.034	6.5
31	MP3C	X	0	1.5
32	MP3C	Z	39.439	1.5
33	MP3C	Mx	-0.004	1.5
34	MP3C	X	0	6.5
35	MP3C	Z	39.439	6.5
36	MP3C	Mx	-0.004	6.5
37	MP1A	X	0	3
38	MP1A	Z	16.57	3
39	MP1A	Mx	0	3
40	MP1A	X	0	5
41	MP1A	Z	16.57	5
42	MP1A	Mx	0	5
43	MP1B	X	0	3
44	MP1B	Z	9.843	3
45	MP1B	Mx	-0.004	3
46	MP1B	X	0	5
47	MP1B	Z	9.843	5
48	MP1B	Mx	-0.004	5
49	MP1C	X	0	3
50	MP1C	Z	10.47	3
51	MP1C	Mx	0.004	3
52	MP1C	X	0	5
53	MP1C	Z	10.47	5
54	MP1C	Mx	0.004	5
55	MP3A	X	0	2.5
56	MP3A	Z	27.596	2.5
57	MP3A	Mx	0	2.5
58	MP3B	X	0	2.5
59	MP3B	Z	17.136	2.5
60	MP3B	Mx	0.007	2.5
61	MP3C	X	0	2.5
62	MP3C	Z	18.111	2.5
63	MP3C	Mx	-0.007	2.5
64	MP2A	X	0	2.5
65	MP2A	Z	17.126	2.5
66	MP2A	Mx	0	2.5
67	MP2B	X	0	2.5
68	MP2B	Z	13.611	2.5
69	MP2B	Mx	0.006	2.5
70	MP2C	X	0	2.5
71	MP2C	Z	13.938	2.5
72	MP2C	Mx	-0.006	2.5
73	OVP	X	0	1
74	OVP	Z	34.515	1
75	OVP	Mx	0	1
76	OVP1	X	0	1
77	OVP1	Z	34.515	1
78	OVP1	Mx	0	1
79	OVP2	X	0	1
80	OVP2	Z	34.515	1
81	OVP2	Mx	0	1



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Member Point Loads (BLC 21 : Antenna Wi (180 Deg)) (Continued)

Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
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Member Point Loads (BLC 22 : Antenna Wi (210 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-22.484	1.5
2	MP3A	Z	38.944	1.5
3	MP3A	Mx	-0.021	1.5
4	MP3A	X	-22.484	6.5
5	MP3A	Z	38.944	6.5
6	MP3A	Mx	-0.021	6.5
7	MP3B	X	-17.157	1.5
8	MP3B	Z	29.717	1.5
9	MP3B	Mx	-0.016	1.5
10	MP3B	X	-17.157	6.5
11	MP3B	Z	29.717	6.5
12	MP3B	Mx	-0.016	6.5
13	MP3C	X	-23.178	1.5
14	MP3C	Z	40.146	1.5
15	MP3C	Mx	0.045	1.5
16	MP3C	X	-23.178	6.5
17	MP3C	Z	40.146	6.5
18	MP3C	Mx	0.045	6.5
19	MP3A	X	-22.484	1.5
20	MP3A	Z	38.944	1.5
21	MP3A	Mx	0.044	1.5
22	MP3A	X	-22.484	6.5
23	MP3A	Z	38.944	6.5
24	MP3A	Mx	0.044	6.5
25	MP3B	X	-17.157	1.5
26	MP3B	Z	29.717	1.5
27	MP3B	Mx	-0.019	1.5
28	MP3B	X	-17.157	6.5
29	MP3B	Z	29.717	6.5
30	MP3B	Mx	-0.019	6.5
31	MP3C	X	-23.178	1.5
32	MP3C	Z	40.146	1.5
33	MP3C	Mx	-0.027	1.5
34	MP3C	X	-23.178	6.5
35	MP3C	Z	40.146	6.5
36	MP3C	Mx	-0.027	6.5
37	MP1A	X	-7.09	3
38	MP1A	Z	12.279	3
39	MP1A	Mx	0.004	3
40	MP1A	X	-7.09	5
41	MP1A	Z	12.279	5
42	MP1A	Mx	0.004	5
43	MP1B	X	-3.516	3
44	MP1B	Z	6.09	3
45	MP1B	Mx	-0.004	3
46	MP1B	X	-3.516	5
47	MP1B	Z	6.09	5
48	MP1B	Mx	-0.004	5
49	MP1C	X	-7.555	3
50	MP1C	Z	13.086	3
51	MP1C	Mx	0.003	3
52	MP1C	X	-7.555	5
53	MP1C	Z	13.086	5
54	MP1C	Mx	0.003	5
55	MP3A	X	-11.939	2.5

Member Point Loads (BLC 22 : Antenna Wi (210 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP3A	Z	20.679	2.5
57	MP3A	Mx	-0.006	2.5
58	MP3B	X	-6.382	2.5
59	MP3B	Z	11.055	2.5
60	MP3B	Mx	0.006	2.5
61	MP3C	X	-12.663	2.5
62	MP3C	Z	21.933	2.5
63	MP3C	Mx	-0.005	2.5
64	MP2A	X	-7.938	2.5
65	MP2A	Z	13.75	2.5
66	MP2A	Mx	-0.004	2.5
67	MP2B	X	-6.071	2.5
68	MP2B	Z	10.515	2.5
69	MP2B	Mx	0.006	2.5
70	MP2C	X	-8.182	2.5
71	MP2C	Z	14.171	2.5
72	MP2C	Mx	-0.003	2.5
73	OVP	X	-15.537	1
74	OVP	Z	26.91	1
75	OVP	Mx	0	1
76	OVP1	X	-15.537	1
77	OVP1	Z	26.91	1
78	OVP1	Mx	0	1
79	OVP2	X	-15.537	1
80	OVP2	Z	26.91	1
81	OVP2	Mx	0	1

Member Point Loads (BLC 23 : Antenna Wi (240 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-32.77	1.5
2	MP3A	Z	18.92	1.5
3	MP3A	Mx	0.000618	1.5
4	MP3A	X	-32.77	6.5
5	MP3A	Z	18.92	6.5
6	MP3A	Mx	0.000618	6.5
7	MP3B	X	-32.228	1.5
8	MP3B	Z	18.607	1.5
9	MP3B	Mx	-0.031	1.5
10	MP3B	X	-32.228	6.5
11	MP3B	Z	18.607	6.5
12	MP3B	Mx	-0.031	6.5
13	MP3C	X	-41.847	1.5
14	MP3C	Z	24.16	1.5
15	MP3C	Mx	0.037	1.5
16	MP3C	X	-41.847	6.5
17	MP3C	Z	24.16	6.5
18	MP3C	Mx	0.037	6.5
19	MP3A	X	-32.77	1.5
20	MP3A	Z	18.92	1.5
21	MP3A	Mx	0.032	1.5
22	MP3A	X	-32.77	6.5
23	MP3A	Z	18.92	6.5
24	MP3A	Mx	0.032	6.5
25	MP3B	X	-32.228	1.5
26	MP3B	Z	18.607	1.5

Member Point Loads (BLC 23 : Antenna Wi (240 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
27	MP3B	Mx	-0.003	1.5
28	MP3B	X	-32.228	6.5
29	MP3B	Z	18.607	6.5
30	MP3B	Mx	-0.003	6.5
31	MP3C	X	-41.847	1.5
32	MP3C	Z	24.16	1.5
33	MP3C	Mx	-0.043	1.5
34	MP3C	X	-41.847	6.5
35	MP3C	Z	24.16	6.5
36	MP3C	Mx	-0.043	6.5
37	MP1A	X	-8.138	3
38	MP1A	Z	4.699	3
39	MP1A	Mx	0.004	3
40	MP1A	X	-8.138	5
41	MP1A	Z	4.699	5
42	MP1A	Mx	0.004	5
43	MP1B	X	-7.775	3
44	MP1B	Z	4.489	3
45	MP1B	Mx	-0.004	3
46	MP1B	X	-7.775	5
47	MP1B	Z	4.489	5
48	MP1B	Mx	-0.004	5
49	MP1C	X	-14.227	3
50	MP1C	Z	8.214	3
51	MP1C	Mx	-0.001	3
52	MP1C	X	-14.227	5
53	MP1C	Z	8.214	5
54	MP1C	Mx	-0.001	5
55	MP3A	X	-14.239	2.5
56	MP3A	Z	8.221	2.5
57	MP3A	Mx	-0.007	2.5
58	MP3B	X	-13.674	2.5
59	MP3B	Z	7.895	2.5
60	MP3B	Mx	0.007	2.5
61	MP3C	X	-23.708	2.5
62	MP3C	Z	13.688	2.5
63	MP3C	Mx	0.002	2.5
64	MP2A	X	-11.585	2.5
65	MP2A	Z	6.689	2.5
66	MP2A	Mx	-0.006	2.5
67	MP2B	X	-11.395	2.5
68	MP2B	Z	6.579	2.5
69	MP2B	Mx	0.006	2.5
70	MP2C	X	-14.767	2.5
71	MP2C	Z	8.526	2.5
72	MP2C	Mx	0.001	2.5
73	OVP	X	-24.161	1
74	OVP	Z	13.949	1
75	OVP	Mx	0	1
76	OVP1	X	-24.161	1
77	OVP1	Z	13.949	1
78	OVP1	Mx	0	1
79	OVP2	X	-24.161	1
80	OVP2	Z	13.949	1
81	OVP2	Mx	0	1



Company :
Designer :
Job Number :
Model Name :

6/12/2025
11:59:05 AM
Checked By : _____

Member Point Loads (BLC 23 : Antenna Wi (240 Deg)) (Continued)

Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
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Member Point Loads (BLC 24 : Antenna Wi (270 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-34.276	1.5
2	MP3A	Z	0	1.5
3	MP3A	Mx	0.017	1.5
4	MP3A	X	-34.276	6.5
5	MP3A	Z	0	6.5
6	MP3A	Mx	0.017	6.5
7	MP3B	X	-44.304	1.5
8	MP3B	Z	0	1.5
9	MP3B	Mx	-0.043	1.5
10	MP3B	X	-44.304	6.5
11	MP3B	Z	0	6.5
12	MP3B	Mx	-0.043	6.5
13	MP3C	X	-43.369	1.5
14	MP3C	Z	0	1.5
15	MP3C	Mx	0.016	1.5
16	MP3C	X	-43.369	6.5
17	MP3C	Z	0	6.5
18	MP3C	Mx	0.016	6.5
19	MP3A	X	-34.276	1.5
20	MP3A	Z	0	1.5
21	MP3A	Mx	0.017	1.5
22	MP3A	X	-34.276	6.5
23	MP3A	Z	0	6.5
24	MP3A	Mx	0.017	6.5
25	MP3B	X	-44.304	1.5
26	MP3B	Z	0	1.5
27	MP3B	Mx	0.019	1.5
28	MP3B	X	-44.304	6.5
29	MP3B	Z	0	6.5
30	MP3B	Mx	0.019	6.5
31	MP3C	X	-43.369	1.5
32	MP3C	Z	0	1.5
33	MP3C	Mx	-0.042	1.5
34	MP3C	X	-43.369	6.5
35	MP3C	Z	0	6.5
36	MP3C	Mx	-0.042	6.5
37	MP1A	X	-7.006	3
38	MP1A	Z	0	3
39	MP1A	Mx	0.004	3
40	MP1A	X	-7.006	5
41	MP1A	Z	0	5
42	MP1A	Mx	0.004	5
43	MP1B	X	-13.733	3
44	MP1B	Z	0	3
45	MP1B	Mx	-0.004	3
46	MP1B	X	-13.733	5
47	MP1B	Z	0	5
48	MP1B	Mx	-0.004	5
49	MP1C	X	-13.106	3
50	MP1C	Z	0	3
51	MP1C	Mx	-0.004	3
52	MP1C	X	-13.106	5
53	MP1C	Z	0	5
54	MP1C	Mx	-0.004	5
55	MP3A	X	-12.724	2.5

Member Point Loads (BLC 24 : Antenna Wi (270 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP3A	Z	0	2.5
57	MP3A	Mx	-0.006	2.5
58	MP3B	X	-23.185	2.5
59	MP3B	Z	0	2.5
60	MP3B	Mx	0.006	2.5
61	MP3C	X	-22.21	2.5
62	MP3C	Z	0	2.5
63	MP3C	Mx	0.007	2.5
64	MP2A	X	-12.128	2.5
65	MP2A	Z	0	2.5
66	MP2A	Mx	-0.006	2.5
67	MP2B	X	-15.643	2.5
68	MP2B	Z	0	2.5
69	MP2B	Mx	0.004	2.5
70	MP2C	X	-15.316	2.5
71	MP2C	Z	0	2.5
72	MP2C	Mx	0.005	2.5
73	OVP	X	-28.166	1
74	OVP	Z	0	1
75	OVP	Mx	0	1
76	OVP1	X	-28.166	1
77	OVP1	Z	0	1
78	OVP1	Mx	0	1
79	OVP2	X	-28.166	1
80	OVP2	Z	0	1
81	OVP2	Mx	0	1

Member Point Loads (BLC 25 : Antenna Wi (300 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-32.77	1.5
2	MP3A	Z	-18.92	1.5
3	MP3A	Mx	0.032	1.5
4	MP3A	X	-32.77	6.5
5	MP3A	Z	-18.92	6.5
6	MP3A	Mx	0.032	6.5
7	MP3B	X	-41.997	1.5
8	MP3B	Z	-24.247	1.5
9	MP3B	Mx	-0.042	1.5
10	MP3B	X	-41.997	6.5
11	MP3B	Z	-24.247	6.5
12	MP3B	Mx	-0.042	6.5
13	MP3C	X	-31.569	1.5
14	MP3C	Z	-18.226	1.5
15	MP3C	Mx	-0.005	1.5
16	MP3C	X	-31.569	6.5
17	MP3C	Z	-18.226	6.5
18	MP3C	Mx	-0.005	6.5
19	MP3A	X	-32.77	1.5
20	MP3A	Z	-18.92	1.5
21	MP3A	Mx	0.000618	1.5
22	MP3A	X	-32.77	6.5
23	MP3A	Z	-18.92	6.5
24	MP3A	Mx	0.000618	6.5
25	MP3B	X	-41.997	1.5
26	MP3B	Z	-24.247	1.5

Member Point Loads (BLC 25 : Antenna Wi (300 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
27	MP3B	Mx	0.039	1.5
28	MP3B	X	-41.997	6.5
29	MP3B	Z	-24.247	6.5
30	MP3B	Mx	0.039	6.5
31	MP3C	X	-31.569	1.5
32	MP3C	Z	-18.226	1.5
33	MP3C	Mx	-0.029	1.5
34	MP3C	X	-31.569	6.5
35	MP3C	Z	-18.226	6.5
36	MP3C	Mx	-0.029	6.5
37	MP1A	X	-8.138	3
38	MP1A	Z	-4.699	3
39	MP1A	Mx	0.004	3
40	MP1A	X	-8.138	5
41	MP1A	Z	-4.699	5
42	MP1A	Mx	0.004	5
43	MP1B	X	-14.327	3
44	MP1B	Z	-8.272	3
45	MP1B	Mx	-0.000433	3
46	MP1B	X	-14.327	5
47	MP1B	Z	-8.272	5
48	MP1B	Mx	-0.000433	5
49	MP1C	X	-7.332	3
50	MP1C	Z	-4.233	3
51	MP1C	Mx	-0.004	3
52	MP1C	X	-7.332	5
53	MP1C	Z	-4.233	5
54	MP1C	Mx	-0.004	5
55	MP3A	X	-14.239	2.5
56	MP3A	Z	-8.221	2.5
57	MP3A	Mx	-0.007	2.5
58	MP3B	X	-23.864	2.5
59	MP3B	Z	-13.778	2.5
60	MP3B	Mx	0.000721	2.5
61	MP3C	X	-12.986	2.5
62	MP3C	Z	-7.497	2.5
63	MP3C	Mx	0.007	2.5
64	MP2A	X	-11.585	2.5
65	MP2A	Z	-6.689	2.5
66	MP2A	Mx	-0.006	2.5
67	MP2B	X	-14.82	2.5
68	MP2B	Z	-8.556	2.5
69	MP2B	Mx	0.000448	2.5
70	MP2C	X	-11.164	2.5
71	MP2C	Z	-6.446	2.5
72	MP2C	Mx	0.006	2.5
73	OVP	X	-27.373	1
74	OVP	Z	-15.804	1
75	OVP	Mx	0	1
76	OVP1	X	-27.373	1
77	OVP1	Z	-15.804	1
78	OVP1	Mx	0	1
79	OVP2	X	-27.373	1
80	OVP2	Z	-15.804	1
81	OVP2	Mx	0	1



Company :
Designer :
Job Number :
Model Name :

6/12/2025
11:59:05 AM
Checked By : _____

Member Point Loads (BLC 25 : Antenna Wi (300 Deg)) (Continued)

Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
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Member Point Loads (BLC 26 : Antenna Wi (330 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-22.484	1.5
2	MP3A	Z	-38.944	1.5
3	MP3A	Mx	0.044	1.5
4	MP3A	X	-22.484	6.5
5	MP3A	Z	-38.944	6.5
6	MP3A	Mx	0.044	6.5
7	MP3B	X	-22.797	1.5
8	MP3B	Z	-39.486	1.5
9	MP3B	Mx	-0.024	1.5
10	MP3B	X	-22.797	6.5
11	MP3B	Z	-39.486	6.5
12	MP3B	Mx	-0.024	6.5
13	MP3C	X	-17.244	1.5
14	MP3C	Z	-29.867	1.5
15	MP3C	Mx	-0.021	1.5
16	MP3C	X	-17.244	6.5
17	MP3C	Z	-29.867	6.5
18	MP3C	Mx	-0.021	6.5
19	MP3A	X	-22.484	1.5
20	MP3A	Z	-38.944	1.5
21	MP3A	Mx	-0.021	1.5
22	MP3A	X	-22.484	6.5
23	MP3A	Z	-38.944	6.5
24	MP3A	Mx	-0.021	6.5
25	MP3B	X	-22.797	1.5
26	MP3B	Z	-39.486	1.5
27	MP3B	Mx	0.044	1.5
28	MP3B	X	-22.797	6.5
29	MP3B	Z	-39.486	6.5
30	MP3B	Mx	0.044	6.5
31	MP3C	X	-17.244	1.5
32	MP3C	Z	-29.867	1.5
33	MP3C	Mx	-0.014	1.5
34	MP3C	X	-17.244	6.5
35	MP3C	Z	-29.867	6.5
36	MP3C	Mx	-0.014	6.5
37	MP1A	X	-7.09	3
38	MP1A	Z	-12.279	3
39	MP1A	Mx	0.004	3
40	MP1A	X	-7.09	5
41	MP1A	Z	-12.279	5
42	MP1A	Mx	0.004	5
43	MP1B	X	-7.299	3
44	MP1B	Z	-12.643	3
45	MP1B	Mx	0.003	3
46	MP1B	X	-7.299	5
47	MP1B	Z	-12.643	5
48	MP1B	Mx	0.003	5
49	MP1C	X	-3.574	3
50	MP1C	Z	-6.191	3
51	MP1C	Mx	-0.004	3
52	MP1C	X	-3.574	5
53	MP1C	Z	-6.191	5
54	MP1C	Mx	-0.004	5
55	MP3A	X	-11.939	2.5

Member Point Loads (BLC 26 : Antenna Wi (330 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP3A	Z	-20.679	2.5
57	MP3A	Mx	-0.006	2.5
58	MP3B	X	-12.266	2.5
59	MP3B	Z	-21.245	2.5
60	MP3B	Mx	-0.006	2.5
61	MP3C	X	-6.472	2.5
62	MP3C	Z	-11.211	2.5
63	MP3C	Mx	0.006	2.5
64	MP2A	X	-7.938	2.5
65	MP2A	Z	-13.75	2.5
66	MP2A	Mx	-0.004	2.5
67	MP2B	X	-8.048	2.5
68	MP2B	Z	-13.939	2.5
69	MP2B	Mx	-0.004	2.5
70	MP2C	X	-6.101	2.5
71	MP2C	Z	-10.568	2.5
72	MP2C	Mx	0.006	2.5
73	OVP	X	-17.391	1
74	OVP	Z	-30.122	1
75	OVP	Mx	0	1
76	OVP1	X	-17.391	1
77	OVP1	Z	-30.122	1
78	OVP1	Mx	0	1
79	OVP2	X	-17.391	1
80	OVP2	Z	-30.122	1
81	OVP2	Mx	0	1

Member Point Loads (BLC 27 : Antenna Wm (0 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	1.5
2	MP3A	Z	-10.169	1.5
3	MP3A	Mx	0.008	1.5
4	MP3A	X	0	6.5
5	MP3A	Z	-10.169	6.5
6	MP3A	Mx	0.008	6.5
7	MP3B	X	0	1.5
8	MP3B	Z	-6.4	1.5
9	MP3B	Mx	-0.000221	1.5
10	MP3B	X	0	6.5
11	MP3B	Z	-6.4	6.5
12	MP3B	Mx	-0.000221	6.5
13	MP3C	X	0	1.5
14	MP3C	Z	-6.751	1.5
15	MP3C	Mx	-0.006	1.5
16	MP3C	X	0	6.5
17	MP3C	Z	-6.751	6.5
18	MP3C	Mx	-0.006	6.5
19	MP3A	X	0	1.5
20	MP3A	Z	-10.169	1.5
21	MP3A	Mx	-0.008	1.5
22	MP3A	X	0	6.5
23	MP3A	Z	-10.169	6.5
24	MP3A	Mx	-0.008	6.5
25	MP3B	X	0	1.5
26	MP3B	Z	-6.4	1.5

Member Point Loads (BLC 27 : Antenna Wm (0 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
27	MP3B	Mx	0.006	1.5
28	MP3B	X	0	6.5
29	MP3B	Z	-6.4	6.5
30	MP3B	Mx	0.006	6.5
31	MP3C	X	0	1.5
32	MP3C	Z	-6.751	1.5
33	MP3C	Mx	0.00069	1.5
34	MP3C	X	0	6.5
35	MP3C	Z	-6.751	6.5
36	MP3C	Mx	0.00069	6.5
37	MP1A	X	0	3
38	MP1A	Z	-4.343	3
39	MP1A	Mx	0	3
40	MP1A	X	0	5
41	MP1A	Z	-4.343	5
42	MP1A	Mx	0	5
43	MP1B	X	0	3
44	MP1B	Z	-2.361	3
45	MP1B	Mx	0.00099	3
46	MP1B	X	0	5
47	MP1B	Z	-2.361	5
48	MP1B	Mx	0.00099	5
49	MP1C	X	0	3
50	MP1C	Z	-2.546	3
51	MP1C	Mx	-0.001	3
52	MP1C	X	0	5
53	MP1C	Z	-2.546	5
54	MP1C	Mx	-0.001	5
55	MP3A	X	0	2.5
56	MP3A	Z	-8.63	2.5
57	MP3A	Mx	0	2.5
58	MP3B	X	0	2.5
59	MP3B	Z	-5.138	2.5
60	MP3B	Mx	-0.002	2.5
61	MP3C	X	0	2.5
62	MP3C	Z	-5.463	2.5
63	MP3C	Mx	0.002	2.5
64	MP2A	X	0	2.5
65	MP2A	Z	-5.14	2.5
66	MP2A	Mx	0	2.5
67	MP2B	X	0	2.5
68	MP2B	Z	-3.989	2.5
69	MP2B	Mx	-0.002	2.5
70	MP2C	X	0	2.5
71	MP2C	Z	-4.097	2.5
72	MP2C	Mx	0.002	2.5
73	OVP	X	0	1
74	OVP	Z	-8.534	1
75	OVP	Mx	0	1
76	OVP1	X	0	1
77	OVP1	Z	-8.534	1
78	OVP1	Mx	0	1
79	OVP2	X	0	1
80	OVP2	Z	-8.534	1
81	OVP2	Mx	0	1



Company :
Designer :
Job Number :
Model Name :

6/12/2025
11:59:05 AM
Checked By : _____

Member Point Loads (BLC 27 : Antenna Wm (0 Deg)) (Continued)

Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
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Member Point Loads (BLC 28 : Antenna Wm (30 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	4.415	1.5
2	MP3A	Z	-7.647	1.5
3	MP3A	Mx	0.004	1.5
4	MP3A	X	4.415	6.5
5	MP3A	Z	-7.647	6.5
6	MP3A	Mx	0.004	6.5
7	MP3B	X	2.412	1.5
8	MP3B	Z	-4.178	1.5
9	MP3B	Mx	0.002	1.5
10	MP3B	X	2.412	6.5
11	MP3B	Z	-4.178	6.5
12	MP3B	Mx	0.002	6.5
13	MP3C	X	4.676	1.5
14	MP3C	Z	-8.098	1.5
15	MP3C	Mx	-0.009	1.5
16	MP3C	X	4.676	6.5
17	MP3C	Z	-8.098	6.5
18	MP3C	Mx	-0.009	6.5
19	MP3A	X	4.415	1.5
20	MP3A	Z	-7.647	1.5
21	MP3A	Mx	-0.009	1.5
22	MP3A	X	4.415	6.5
23	MP3A	Z	-7.647	6.5
24	MP3A	Mx	-0.009	6.5
25	MP3B	X	2.412	1.5
26	MP3B	Z	-4.178	1.5
27	MP3B	Mx	0.003	1.5
28	MP3B	X	2.412	6.5
29	MP3B	Z	-4.178	6.5
30	MP3B	Mx	0.003	6.5
31	MP3C	X	4.676	1.5
32	MP3C	Z	-8.098	1.5
33	MP3C	Mx	0.005	1.5
34	MP3C	X	4.676	6.5
35	MP3C	Z	-8.098	6.5
36	MP3C	Mx	0.005	6.5
37	MP1A	X	1.819	3
38	MP1A	Z	-3.151	3
39	MP1A	Mx	-0.000909	3
40	MP1A	X	1.819	5
41	MP1A	Z	-3.151	5
42	MP1A	Mx	-0.000909	5
43	MP1B	X	0.767	3
44	MP1B	Z	-1.328	3
45	MP1B	Mx	0.000766	3
46	MP1B	X	0.767	5
47	MP1B	Z	-1.328	5
48	MP1B	Mx	0.000766	5
49	MP1C	X	1.956	3
50	MP1C	Z	-3.388	3
51	MP1C	Mx	-0.000764	3
52	MP1C	X	1.956	5
53	MP1C	Z	-3.388	5
54	MP1C	Mx	-0.000764	5
55	MP3A	X	3.694	2.5

Member Point Loads (BLC 28 : Antenna Wm (30 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP3A	Z	-6.399	2.5
57	MP3A	Mx	0.002	2.5
58	MP3B	X	1.839	2.5
59	MP3B	Z	-3.186	2.5
60	MP3B	Mx	-0.002	2.5
61	MP3C	X	3.936	2.5
62	MP3C	Z	-6.818	2.5
63	MP3C	Mx	0.002	2.5
64	MP2A	X	2.365	2.5
65	MP2A	Z	-4.097	2.5
66	MP2A	Mx	0.001	2.5
67	MP2B	X	1.754	2.5
68	MP2B	Z	-3.039	2.5
69	MP2B	Mx	-0.002	2.5
70	MP2C	X	2.445	2.5
71	MP2C	Z	-4.235	2.5
72	MP2C	Mx	0.000955	2.5
73	OVP	X	3.798	1
74	OVP	Z	-6.578	1
75	OVP	Mx	0	1
76	OVP1	X	3.798	1
77	OVP1	Z	-6.578	1
78	OVP1	Mx	0	1
79	OVP2	X	3.798	1
80	OVP2	Z	-6.578	1
81	OVP2	Mx	0	1

Member Point Loads (BLC 29 : Antenna Wm (60 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	5.326	1.5
2	MP3A	Z	-3.075	1.5
3	MP3A	Mx	-0.0001	1.5
4	MP3A	X	5.326	6.5
5	MP3A	Z	-3.075	6.5
6	MP3A	Mx	-0.0001	6.5
7	MP3B	X	5.122	1.5
8	MP3B	Z	-2.957	1.5
9	MP3B	Mx	0.005	1.5
10	MP3B	X	5.122	6.5
11	MP3B	Z	-2.957	6.5
12	MP3B	Mx	0.005	6.5
13	MP3C	X	8.738	1.5
14	MP3C	Z	-5.045	1.5
15	MP3C	Mx	-0.008	1.5
16	MP3C	X	8.738	6.5
17	MP3C	Z	-5.045	6.5
18	MP3C	Mx	-0.008	6.5
19	MP3A	X	5.326	1.5
20	MP3A	Z	-3.075	1.5
21	MP3A	Mx	-0.005	1.5
22	MP3A	X	5.326	6.5
23	MP3A	Z	-3.075	6.5
24	MP3A	Mx	-0.005	6.5
25	MP3B	X	5.122	1.5
26	MP3B	Z	-2.957	1.5

Member Point Loads (BLC 29 : Antenna Wm (60 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
27	MP3B	Mx	0.000397	1.5
28	MP3B	X	5.122	6.5
29	MP3B	Z	-2.957	6.5
30	MP3B	Mx	0.000397	6.5
31	MP3C	X	8.738	1.5
32	MP3C	Z	-5.045	1.5
33	MP3C	Mx	0.009	1.5
34	MP3C	X	8.738	6.5
35	MP3C	Z	-5.045	6.5
36	MP3C	Mx	0.009	6.5
37	MP1A	X	1.931	3
38	MP1A	Z	-1.115	3
39	MP1A	Mx	-0.000966	3
40	MP1A	X	1.931	5
41	MP1A	Z	-1.115	5
42	MP1A	Mx	-0.000966	5
43	MP1B	X	1.824	3
44	MP1B	Z	-1.053	3
45	MP1B	Mx	0.000938	3
46	MP1B	X	1.824	5
47	MP1B	Z	-1.053	5
48	MP1B	Mx	0.000938	5
49	MP1C	X	3.725	3
50	MP1C	Z	-2.15	3
51	MP1C	Mx	0.000262	3
52	MP1C	X	3.725	5
53	MP1C	Z	-2.15	5
54	MP1C	Mx	0.000262	5
55	MP3A	X	4.249	2.5
56	MP3A	Z	-2.453	2.5
57	MP3A	Mx	0.002	2.5
58	MP3B	X	4.06	2.5
59	MP3B	Z	-2.344	2.5
60	MP3B	Mx	-0.002	2.5
61	MP3C	X	7.41	2.5
62	MP3C	Z	-4.278	2.5
63	MP3C	Mx	-0.000521	2.5
64	MP2A	X	3.389	2.5
65	MP2A	Z	-1.957	2.5
66	MP2A	Mx	0.002	2.5
67	MP2B	X	3.327	2.5
68	MP2B	Z	-1.921	2.5
69	MP2B	Mx	-0.002	2.5
70	MP2C	X	4.43	2.5
71	MP2C	Z	-2.558	2.5
72	MP2C	Mx	-0.000312	2.5
73	OVP	X	5.828	1
74	OVP	Z	-3.365	1
75	OVP	Mx	0	1
76	OVP1	X	5.828	1
77	OVP1	Z	-3.365	1
78	OVP1	Mx	0	1
79	OVP2	X	5.828	1
80	OVP2	Z	-3.365	1
81	OVP2	Mx	0	1



Company :
Designer :
Job Number :
Model Name :

6/12/2025
11:59:05 AM
Checked By : _____

Member Point Loads (BLC 29 : Antenna Wm (60 Deg)) (Continued)

Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
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Member Point Loads (BLC 30 : Antenna Wm (90 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	4.81	1.5
2	MP3A	Z	0	1.5
3	MP3A	Mx	-0.002	1.5
4	MP3A	X	4.81	6.5
5	MP3A	Z	0	6.5
6	MP3A	Mx	-0.002	6.5
7	MP3B	X	8.58	1.5
8	MP3B	Z	0	1.5
9	MP3B	Mx	0.008	1.5
10	MP3B	X	8.58	6.5
11	MP3B	Z	0	6.5
12	MP3B	Mx	0.008	6.5
13	MP3C	X	8.228	1.5
14	MP3C	Z	0	1.5
15	MP3C	Mx	-0.003	1.5
16	MP3C	X	8.228	6.5
17	MP3C	Z	0	6.5
18	MP3C	Mx	-0.003	6.5
19	MP3A	X	4.81	1.5
20	MP3A	Z	0	1.5
21	MP3A	Mx	-0.002	1.5
22	MP3A	X	4.81	6.5
23	MP3A	Z	0	6.5
24	MP3A	Mx	-0.002	6.5
25	MP3B	X	8.58	1.5
26	MP3B	Z	0	1.5
27	MP3B	Mx	-0.004	1.5
28	MP3B	X	8.58	6.5
29	MP3B	Z	0	6.5
30	MP3B	Mx	-0.004	6.5
31	MP3C	X	8.228	1.5
32	MP3C	Z	0	1.5
33	MP3C	Mx	0.008	1.5
34	MP3C	X	8.228	6.5
35	MP3C	Z	0	6.5
36	MP3C	Mx	0.008	6.5
37	MP1A	X	1.525	3
38	MP1A	Z	0	3
39	MP1A	Mx	-0.000762	3
40	MP1A	X	1.525	5
41	MP1A	Z	0	5
42	MP1A	Mx	-0.000762	5
43	MP1B	X	3.507	3
44	MP1B	Z	0	3
45	MP1B	Mx	0.000955	3
46	MP1B	X	3.507	5
47	MP1B	Z	0	5
48	MP1B	Mx	0.000955	5
49	MP1C	X	3.322	3
50	MP1C	Z	0	3
51	MP1C	Mx	0.001	3
52	MP1C	X	3.322	5
53	MP1C	Z	0	5
54	MP1C	Mx	0.001	5
55	MP3A	X	3.665	2.5

Member Point Loads (BLC 30 : Antenna Wm (90 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP3A	Z	0	2.5
57	MP3A	Mx	0.002	2.5
58	MP3B	X	7.157	2.5
59	MP3B	Z	0	2.5
60	MP3B	Mx	-0.002	2.5
61	MP3C	X	6.832	2.5
62	MP3C	Z	0	2.5
63	MP3C	Mx	-0.002	2.5
64	MP2A	X	3.504	2.5
65	MP2A	Z	0	2.5
66	MP2A	Mx	0.002	2.5
67	MP2B	X	4.655	2.5
68	MP2B	Z	0	2.5
69	MP2B	Mx	-0.001	2.5
70	MP2C	X	4.547	2.5
71	MP2C	Z	0	2.5
72	MP2C	Mx	-0.001	2.5
73	OVP	X	6.802	1
74	OVP	Z	0	1
75	OVP	Mx	0	1
76	OVP1	X	6.802	1
77	OVP1	Z	0	1
78	OVP1	Mx	0	1
79	OVP2	X	6.802	1
80	OVP2	Z	0	1
81	OVP2	Mx	0	1

Member Point Loads (BLC 31 : Antenna Wm (120 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	5.326	1.5
2	MP3A	Z	3.075	1.5
3	MP3A	Mx	-0.005	1.5
4	MP3A	X	5.326	6.5
5	MP3A	Z	3.075	6.5
6	MP3A	Mx	-0.005	6.5
7	MP3B	X	8.794	1.5
8	MP3B	Z	5.077	1.5
9	MP3B	Mx	0.009	1.5
10	MP3B	X	8.794	6.5
11	MP3B	Z	5.077	6.5
12	MP3B	Mx	0.009	6.5
13	MP3C	X	4.874	1.5
14	MP3C	Z	2.814	1.5
15	MP3C	Mx	0.000758	1.5
16	MP3C	X	4.874	6.5
17	MP3C	Z	2.814	6.5
18	MP3C	Mx	0.000758	6.5
19	MP3A	X	5.326	1.5
20	MP3A	Z	3.075	1.5
21	MP3A	Mx	-0.0001	1.5
22	MP3A	X	5.326	6.5
23	MP3A	Z	3.075	6.5
24	MP3A	Mx	-0.0001	6.5
25	MP3B	X	8.794	1.5
26	MP3B	Z	5.077	1.5

Member Point Loads (BLC 31 : Antenna Wm (120 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
27	MP3B	Mx	-0.008	1.5
28	MP3B	X	8.794	6.5
29	MP3B	Z	5.077	6.5
30	MP3B	Mx	-0.008	6.5
31	MP3C	X	4.874	1.5
32	MP3C	Z	2.814	1.5
33	MP3C	Mx	0.004	1.5
34	MP3C	X	4.874	6.5
35	MP3C	Z	2.814	6.5
36	MP3C	Mx	0.004	6.5
37	MP1A	X	1.931	3
38	MP1A	Z	1.115	3
39	MP1A	Mx	-0.000966	3
40	MP1A	X	1.931	5
41	MP1A	Z	1.115	5
42	MP1A	Mx	-0.000966	5
43	MP1B	X	3.754	3
44	MP1B	Z	2.167	3
45	MP1B	Mx	0.000114	3
46	MP1B	X	3.754	5
47	MP1B	Z	2.167	5
48	MP1B	Mx	0.000114	5
49	MP1C	X	1.694	3
50	MP1C	Z	0.978	3
51	MP1C	Mx	0.0009	3
52	MP1C	X	1.694	5
53	MP1C	Z	0.978	5
54	MP1C	Mx	0.0009	5
55	MP3A	X	4.249	2.5
56	MP3A	Z	2.453	2.5
57	MP3A	Mx	0.002	2.5
58	MP3B	X	7.462	2.5
59	MP3B	Z	4.308	2.5
60	MP3B	Mx	-0.000226	2.5
61	MP3C	X	3.831	2.5
62	MP3C	Z	2.212	2.5
63	MP3C	Mx	-0.002	2.5
64	MP2A	X	3.389	2.5
65	MP2A	Z	1.957	2.5
66	MP2A	Mx	0.002	2.5
67	MP2B	X	4.447	2.5
68	MP2B	Z	2.568	2.5
69	MP2B	Mx	-0.000134	2.5
70	MP2C	X	3.251	2.5
71	MP2C	Z	1.877	2.5
72	MP2C	Mx	-0.002	2.5
73	OVP	X	6.704	1
74	OVP	Z	3.871	1
75	OVP	Mx	0	1
76	OVP1	X	6.704	1
77	OVP1	Z	3.871	1
78	OVP1	Mx	0	1
79	OVP2	X	6.704	1
80	OVP2	Z	3.871	1
81	OVP2	Mx	0	1



Company :
Designer :
Job Number :
Model Name :

6/12/2025
11:59:05 AM
Checked By : _____

Member Point Loads (BLC 31 : Antenna Wm (120 Deg)) (Continued)

Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
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Member Point Loads (BLC 32 : Antenna Wm (150 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	4.415	1.5
2	MP3A	Z	7.647	1.5
3	MP3A	Mx	-0.009	1.5
4	MP3A	X	4.415	6.5
5	MP3A	Z	7.647	6.5
6	MP3A	Mx	-0.009	6.5
7	MP3B	X	4.532	1.5
8	MP3B	Z	7.85	1.5
9	MP3B	Mx	0.005	1.5
10	MP3B	X	4.532	6.5
11	MP3B	Z	7.85	6.5
12	MP3B	Mx	0.005	6.5
13	MP3C	X	2.445	1.5
14	MP3C	Z	4.234	1.5
15	MP3C	Mx	0.003	1.5
16	MP3C	X	2.445	6.5
17	MP3C	Z	4.234	6.5
18	MP3C	Mx	0.003	6.5
19	MP3A	X	4.415	1.5
20	MP3A	Z	7.647	1.5
21	MP3A	Mx	0.004	1.5
22	MP3A	X	4.415	6.5
23	MP3A	Z	7.647	6.5
24	MP3A	Mx	0.004	6.5
25	MP3B	X	4.532	1.5
26	MP3B	Z	7.85	1.5
27	MP3B	Mx	-0.009	1.5
28	MP3B	X	4.532	6.5
29	MP3B	Z	7.85	6.5
30	MP3B	Mx	-0.009	6.5
31	MP3C	X	2.445	1.5
32	MP3C	Z	4.234	1.5
33	MP3C	Mx	0.002	1.5
34	MP3C	X	2.445	6.5
35	MP3C	Z	4.234	6.5
36	MP3C	Mx	0.002	6.5
37	MP1A	X	1.819	3
38	MP1A	Z	3.151	3
39	MP1A	Mx	-0.000909	3
40	MP1A	X	1.819	5
41	MP1A	Z	3.151	5
42	MP1A	Mx	-0.000909	5
43	MP1B	X	1.881	3
44	MP1B	Z	3.258	3
45	MP1B	Mx	-0.000854	3
46	MP1B	X	1.881	5
47	MP1B	Z	3.258	5
48	MP1B	Mx	-0.000854	5
49	MP1C	X	0.784	3
50	MP1C	Z	1.357	3
51	MP1C	Mx	0.000778	3
52	MP1C	X	0.784	5
53	MP1C	Z	1.357	5
54	MP1C	Mx	0.000778	5
55	MP3A	X	3.694	2.5

Member Point Loads (BLC 32 : Antenna Wm (150 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP3A	Z	6.399	2.5
57	MP3A	Mx	0.002	2.5
58	MP3B	X	3.803	2.5
59	MP3B	Z	6.588	2.5
60	MP3B	Mx	0.002	2.5
61	MP3C	X	1.87	2.5
62	MP3C	Z	3.238	2.5
63	MP3C	Mx	-0.002	2.5
64	MP2A	X	2.365	2.5
65	MP2A	Z	4.097	2.5
66	MP2A	Mx	0.001	2.5
67	MP2B	X	2.401	2.5
68	MP2B	Z	4.159	2.5
69	MP2B	Mx	0.001	2.5
70	MP2C	X	1.764	2.5
71	MP2C	Z	3.056	2.5
72	MP2C	Mx	-0.002	2.5
73	OVP	X	4.303	1
74	OVP	Z	7.454	1
75	OVP	Mx	0	1
76	OVP1	X	4.303	1
77	OVP1	Z	7.454	1
78	OVP1	Mx	0	1
79	OVP2	X	4.303	1
80	OVP2	Z	7.454	1
81	OVP2	Mx	0	1

Member Point Loads (BLC 33 : Antenna Wm (180 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	1.5
2	MP3A	Z	10.169	1.5
3	MP3A	Mx	-0.008	1.5
4	MP3A	X	0	6.5
5	MP3A	Z	10.169	6.5
6	MP3A	Mx	-0.008	6.5
7	MP3B	X	0	1.5
8	MP3B	Z	6.4	1.5
9	MP3B	Mx	0.000221	1.5
10	MP3B	X	0	6.5
11	MP3B	Z	6.4	6.5
12	MP3B	Mx	0.000221	6.5
13	MP3C	X	0	1.5
14	MP3C	Z	6.751	1.5
15	MP3C	Mx	0.006	1.5
16	MP3C	X	0	6.5
17	MP3C	Z	6.751	6.5
18	MP3C	Mx	0.006	6.5
19	MP3A	X	0	1.5
20	MP3A	Z	10.169	1.5
21	MP3A	Mx	0.008	1.5
22	MP3A	X	0	6.5
23	MP3A	Z	10.169	6.5
24	MP3A	Mx	0.008	6.5
25	MP3B	X	0	1.5
26	MP3B	Z	6.4	1.5

Member Point Loads (BLC 33 : Antenna Wm (180 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
27	MP3B	Mx	-0.006	1.5
28	MP3B	X	0	6.5
29	MP3B	Z	6.4	6.5
30	MP3B	Mx	-0.006	6.5
31	MP3C	X	0	1.5
32	MP3C	Z	6.751	1.5
33	MP3C	Mx	-0.00069	1.5
34	MP3C	X	0	6.5
35	MP3C	Z	6.751	6.5
36	MP3C	Mx	-0.00069	6.5
37	MP1A	X	0	3
38	MP1A	Z	4.343	3
39	MP1A	Mx	0	3
40	MP1A	X	0	5
41	MP1A	Z	4.343	5
42	MP1A	Mx	0	5
43	MP1B	X	0	3
44	MP1B	Z	2.361	3
45	MP1B	Mx	-0.00099	3
46	MP1B	X	0	5
47	MP1B	Z	2.361	5
48	MP1B	Mx	-0.00099	5
49	MP1C	X	0	3
50	MP1C	Z	2.546	3
51	MP1C	Mx	0.001	3
52	MP1C	X	0	5
53	MP1C	Z	2.546	5
54	MP1C	Mx	0.001	5
55	MP3A	X	0	2.5
56	MP3A	Z	8.63	2.5
57	MP3A	Mx	0	2.5
58	MP3B	X	0	2.5
59	MP3B	Z	5.138	2.5
60	MP3B	Mx	0.002	2.5
61	MP3C	X	0	2.5
62	MP3C	Z	5.463	2.5
63	MP3C	Mx	-0.002	2.5
64	MP2A	X	0	2.5
65	MP2A	Z	5.14	2.5
66	MP2A	Mx	0	2.5
67	MP2B	X	0	2.5
68	MP2B	Z	3.989	2.5
69	MP2B	Mx	0.002	2.5
70	MP2C	X	0	2.5
71	MP2C	Z	4.097	2.5
72	MP2C	Mx	-0.002	2.5
73	OVP	X	0	1
74	OVP	Z	8.534	1
75	OVP	Mx	0	1
76	OVP1	X	0	1
77	OVP1	Z	8.534	1
78	OVP1	Mx	0	1
79	OVP2	X	0	1
80	OVP2	Z	8.534	1
81	OVP2	Mx	0	1



Company :
Designer :
Job Number :
Model Name :

6/12/2025
11:59:05 AM
Checked By : _____

Member Point Loads (BLC 33 : Antenna Wm (180 Deg)) (Continued)

Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
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Member Point Loads (BLC 34 : Antenna Wm (210 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-4.415	1.5
2	MP3A	Z	7.647	1.5
3	MP3A	Mx	-0.004	1.5
4	MP3A	X	-4.415	6.5
5	MP3A	Z	7.647	6.5
6	MP3A	Mx	-0.004	6.5
7	MP3B	X	-2.412	1.5
8	MP3B	Z	4.178	1.5
9	MP3B	Mx	-0.002	1.5
10	MP3B	X	-2.412	6.5
11	MP3B	Z	4.178	6.5
12	MP3B	Mx	-0.002	6.5
13	MP3C	X	-4.676	1.5
14	MP3C	Z	8.098	1.5
15	MP3C	Mx	0.009	1.5
16	MP3C	X	-4.676	6.5
17	MP3C	Z	8.098	6.5
18	MP3C	Mx	0.009	6.5
19	MP3A	X	-4.415	1.5
20	MP3A	Z	7.647	1.5
21	MP3A	Mx	0.009	1.5
22	MP3A	X	-4.415	6.5
23	MP3A	Z	7.647	6.5
24	MP3A	Mx	0.009	6.5
25	MP3B	X	-2.412	1.5
26	MP3B	Z	4.178	1.5
27	MP3B	Mx	-0.003	1.5
28	MP3B	X	-2.412	6.5
29	MP3B	Z	4.178	6.5
30	MP3B	Mx	-0.003	6.5
31	MP3C	X	-4.676	1.5
32	MP3C	Z	8.098	1.5
33	MP3C	Mx	-0.005	1.5
34	MP3C	X	-4.676	6.5
35	MP3C	Z	8.098	6.5
36	MP3C	Mx	-0.005	6.5
37	MP1A	X	-1.819	3
38	MP1A	Z	3.151	3
39	MP1A	Mx	0.000909	3
40	MP1A	X	-1.819	5
41	MP1A	Z	3.151	5
42	MP1A	Mx	0.000909	5
43	MP1B	X	-0.767	3
44	MP1B	Z	1.328	3
45	MP1B	Mx	-0.000766	3
46	MP1B	X	-0.767	5
47	MP1B	Z	1.328	5
48	MP1B	Mx	-0.000766	5
49	MP1C	X	-1.956	3
50	MP1C	Z	3.388	3
51	MP1C	Mx	0.000764	3
52	MP1C	X	-1.956	5
53	MP1C	Z	3.388	5
54	MP1C	Mx	0.000764	5
55	MP3A	X	-3.694	2.5

Member Point Loads (BLC 34 : Antenna Wm (210 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP3A	Z	6.399	2.5
57	MP3A	Mx	-0.002	2.5
58	MP3B	X	-1.839	2.5
59	MP3B	Z	3.186	2.5
60	MP3B	Mx	0.002	2.5
61	MP3C	X	-3.936	2.5
62	MP3C	Z	6.818	2.5
63	MP3C	Mx	-0.002	2.5
64	MP2A	X	-2.365	2.5
65	MP2A	Z	4.097	2.5
66	MP2A	Mx	-0.001	2.5
67	MP2B	X	-1.754	2.5
68	MP2B	Z	3.039	2.5
69	MP2B	Mx	0.002	2.5
70	MP2C	X	-2.445	2.5
71	MP2C	Z	4.235	2.5
72	MP2C	Mx	-0.000955	2.5
73	OVP	X	-3.798	1
74	OVP	Z	6.578	1
75	OVP	Mx	0	1
76	OVP1	X	-3.798	1
77	OVP1	Z	6.578	1
78	OVP1	Mx	0	1
79	OVP2	X	-3.798	1
80	OVP2	Z	6.578	1
81	OVP2	Mx	0	1

Member Point Loads (BLC 35 : Antenna Wm (240 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-5.326	1.5
2	MP3A	Z	3.075	1.5
3	MP3A	Mx	0.0001	1.5
4	MP3A	X	-5.326	6.5
5	MP3A	Z	3.075	6.5
6	MP3A	Mx	0.0001	6.5
7	MP3B	X	-5.122	1.5
8	MP3B	Z	2.957	1.5
9	MP3B	Mx	-0.005	1.5
10	MP3B	X	-5.122	6.5
11	MP3B	Z	2.957	6.5
12	MP3B	Mx	-0.005	6.5
13	MP3C	X	-8.738	1.5
14	MP3C	Z	5.045	1.5
15	MP3C	Mx	0.008	1.5
16	MP3C	X	-8.738	6.5
17	MP3C	Z	5.045	6.5
18	MP3C	Mx	0.008	6.5
19	MP3A	X	-5.326	1.5
20	MP3A	Z	3.075	1.5
21	MP3A	Mx	0.005	1.5
22	MP3A	X	-5.326	6.5
23	MP3A	Z	3.075	6.5
24	MP3A	Mx	0.005	6.5
25	MP3B	X	-5.122	1.5
26	MP3B	Z	2.957	1.5

Member Point Loads (BLC 35 : Antenna Wm (240 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
27	MP3B	Mx	-0.000397	1.5
28	MP3B	X	-5.122	6.5
29	MP3B	Z	2.957	6.5
30	MP3B	Mx	-0.000397	6.5
31	MP3C	X	-8.738	1.5
32	MP3C	Z	5.045	1.5
33	MP3C	Mx	-0.009	1.5
34	MP3C	X	-8.738	6.5
35	MP3C	Z	5.045	6.5
36	MP3C	Mx	-0.009	6.5
37	MP1A	X	-1.931	3
38	MP1A	Z	1.115	3
39	MP1A	Mx	0.000966	3
40	MP1A	X	-1.931	5
41	MP1A	Z	1.115	5
42	MP1A	Mx	0.000966	5
43	MP1B	X	-1.824	3
44	MP1B	Z	1.053	3
45	MP1B	Mx	-0.000938	3
46	MP1B	X	-1.824	5
47	MP1B	Z	1.053	5
48	MP1B	Mx	-0.000938	5
49	MP1C	X	-3.725	3
50	MP1C	Z	2.15	3
51	MP1C	Mx	-0.000262	3
52	MP1C	X	-3.725	5
53	MP1C	Z	2.15	5
54	MP1C	Mx	-0.000262	5
55	MP3A	X	-4.249	2.5
56	MP3A	Z	2.453	2.5
57	MP3A	Mx	-0.002	2.5
58	MP3B	X	-4.06	2.5
59	MP3B	Z	2.344	2.5
60	MP3B	Mx	0.002	2.5
61	MP3C	X	-7.41	2.5
62	MP3C	Z	4.278	2.5
63	MP3C	Mx	0.000521	2.5
64	MP2A	X	-3.389	2.5
65	MP2A	Z	1.957	2.5
66	MP2A	Mx	-0.002	2.5
67	MP2B	X	-3.327	2.5
68	MP2B	Z	1.921	2.5
69	MP2B	Mx	0.002	2.5
70	MP2C	X	-4.43	2.5
71	MP2C	Z	2.558	2.5
72	MP2C	Mx	0.000312	2.5
73	OVP	X	-5.828	1
74	OVP	Z	3.365	1
75	OVP	Mx	0	1
76	OVP1	X	-5.828	1
77	OVP1	Z	3.365	1
78	OVP1	Mx	0	1
79	OVP2	X	-5.828	1
80	OVP2	Z	3.365	1
81	OVP2	Mx	0	1



Company :
Designer :
Job Number :
Model Name :

6/12/2025
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Member Point Loads (BLC 35 : Antenna Wm (240 Deg)) (Continued)

Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
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Member Point Loads (BLC 36 : Antenna Wm (270 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-4.81	1.5
2	MP3A	Z	0	1.5
3	MP3A	Mx	0.002	1.5
4	MP3A	X	-4.81	6.5
5	MP3A	Z	0	6.5
6	MP3A	Mx	0.002	6.5
7	MP3B	X	-8.58	1.5
8	MP3B	Z	0	1.5
9	MP3B	Mx	-0.008	1.5
10	MP3B	X	-8.58	6.5
11	MP3B	Z	0	6.5
12	MP3B	Mx	-0.008	6.5
13	MP3C	X	-8.228	1.5
14	MP3C	Z	0	1.5
15	MP3C	Mx	0.003	1.5
16	MP3C	X	-8.228	6.5
17	MP3C	Z	0	6.5
18	MP3C	Mx	0.003	6.5
19	MP3A	X	-4.81	1.5
20	MP3A	Z	0	1.5
21	MP3A	Mx	0.002	1.5
22	MP3A	X	-4.81	6.5
23	MP3A	Z	0	6.5
24	MP3A	Mx	0.002	6.5
25	MP3B	X	-8.58	1.5
26	MP3B	Z	0	1.5
27	MP3B	Mx	0.004	1.5
28	MP3B	X	-8.58	6.5
29	MP3B	Z	0	6.5
30	MP3B	Mx	0.004	6.5
31	MP3C	X	-8.228	1.5
32	MP3C	Z	0	1.5
33	MP3C	Mx	-0.008	1.5
34	MP3C	X	-8.228	6.5
35	MP3C	Z	0	6.5
36	MP3C	Mx	-0.008	6.5
37	MP1A	X	-1.525	3
38	MP1A	Z	0	3
39	MP1A	Mx	0.000762	3
40	MP1A	X	-1.525	5
41	MP1A	Z	0	5
42	MP1A	Mx	0.000762	5
43	MP1B	X	-3.507	3
44	MP1B	Z	0	3
45	MP1B	Mx	-0.000955	3
46	MP1B	X	-3.507	5
47	MP1B	Z	0	5
48	MP1B	Mx	-0.000955	5
49	MP1C	X	-3.322	3
50	MP1C	Z	0	3
51	MP1C	Mx	-0.001	3
52	MP1C	X	-3.322	5
53	MP1C	Z	0	5
54	MP1C	Mx	-0.001	5
55	MP3A	X	-3.665	2.5

Member Point Loads (BLC 36 : Antenna Wm (270 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP3A	Z	0	2.5
57	MP3A	Mx	-0.002	2.5
58	MP3B	X	-7.157	2.5
59	MP3B	Z	0	2.5
60	MP3B	Mx	0.002	2.5
61	MP3C	X	-6.832	2.5
62	MP3C	Z	0	2.5
63	MP3C	Mx	0.002	2.5
64	MP2A	X	-3.504	2.5
65	MP2A	Z	0	2.5
66	MP2A	Mx	-0.002	2.5
67	MP2B	X	-4.655	2.5
68	MP2B	Z	0	2.5
69	MP2B	Mx	0.001	2.5
70	MP2C	X	-4.547	2.5
71	MP2C	Z	0	2.5
72	MP2C	Mx	0.001	2.5
73	OVP	X	-6.802	1
74	OVP	Z	0	1
75	OVP	Mx	0	1
76	OVP1	X	-6.802	1
77	OVP1	Z	0	1
78	OVP1	Mx	0	1
79	OVP2	X	-6.802	1
80	OVP2	Z	0	1
81	OVP2	Mx	0	1

Member Point Loads (BLC 37 : Antenna Wm (300 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-5.326	1.5
2	MP3A	Z	-3.075	1.5
3	MP3A	Mx	0.005	1.5
4	MP3A	X	-5.326	6.5
5	MP3A	Z	-3.075	6.5
6	MP3A	Mx	0.005	6.5
7	MP3B	X	-8.794	1.5
8	MP3B	Z	-5.077	1.5
9	MP3B	Mx	-0.009	1.5
10	MP3B	X	-8.794	6.5
11	MP3B	Z	-5.077	6.5
12	MP3B	Mx	-0.009	6.5
13	MP3C	X	-4.874	1.5
14	MP3C	Z	-2.814	1.5
15	MP3C	Mx	-0.000758	1.5
16	MP3C	X	-4.874	6.5
17	MP3C	Z	-2.814	6.5
18	MP3C	Mx	-0.000758	6.5
19	MP3A	X	-5.326	1.5
20	MP3A	Z	-3.075	1.5
21	MP3A	Mx	0.0001	1.5
22	MP3A	X	-5.326	6.5
23	MP3A	Z	-3.075	6.5
24	MP3A	Mx	0.0001	6.5
25	MP3B	X	-8.794	1.5
26	MP3B	Z	-5.077	1.5

Member Point Loads (BLC 37 : Antenna Wm (300 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
27	MP3B	Mx	0.008	1.5
28	MP3B	X	-8.794	6.5
29	MP3B	Z	-5.077	6.5
30	MP3B	Mx	0.008	6.5
31	MP3C	X	-4.874	1.5
32	MP3C	Z	-2.814	1.5
33	MP3C	Mx	-0.004	1.5
34	MP3C	X	-4.874	6.5
35	MP3C	Z	-2.814	6.5
36	MP3C	Mx	-0.004	6.5
37	MP1A	X	-1.931	3
38	MP1A	Z	-1.115	3
39	MP1A	Mx	0.000966	3
40	MP1A	X	-1.931	5
41	MP1A	Z	-1.115	5
42	MP1A	Mx	0.000966	5
43	MP1B	X	-3.754	3
44	MP1B	Z	-2.167	3
45	MP1B	Mx	-0.000114	3
46	MP1B	X	-3.754	5
47	MP1B	Z	-2.167	5
48	MP1B	Mx	-0.000114	5
49	MP1C	X	-1.694	3
50	MP1C	Z	-0.978	3
51	MP1C	Mx	-0.0009	3
52	MP1C	X	-1.694	5
53	MP1C	Z	-0.978	5
54	MP1C	Mx	-0.0009	5
55	MP3A	X	-4.249	2.5
56	MP3A	Z	-2.453	2.5
57	MP3A	Mx	-0.002	2.5
58	MP3B	X	-7.462	2.5
59	MP3B	Z	-4.308	2.5
60	MP3B	Mx	0.000226	2.5
61	MP3C	X	-3.831	2.5
62	MP3C	Z	-2.212	2.5
63	MP3C	Mx	0.002	2.5
64	MP2A	X	-3.389	2.5
65	MP2A	Z	-1.957	2.5
66	MP2A	Mx	-0.002	2.5
67	MP2B	X	-4.447	2.5
68	MP2B	Z	-2.568	2.5
69	MP2B	Mx	0.000134	2.5
70	MP2C	X	-3.251	2.5
71	MP2C	Z	-1.877	2.5
72	MP2C	Mx	0.002	2.5
73	OVP	X	-6.704	1
74	OVP	Z	-3.871	1
75	OVP	Mx	0	1
76	OVP1	X	-6.704	1
77	OVP1	Z	-3.871	1
78	OVP1	Mx	0	1
79	OVP2	X	-6.704	1
80	OVP2	Z	-3.871	1
81	OVP2	Mx	0	1



Company :
Designer :
Job Number :
Model Name :

6/12/2025
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Member Point Loads (BLC 37 : Antenna Wm (300 Deg)) (Continued)

Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
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Member Point Loads (BLC 38 : Antenna Wm (330 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-4.415	1.5
2	MP3A	Z	-7.647	1.5
3	MP3A	Mx	0.009	1.5
4	MP3A	X	-4.415	6.5
5	MP3A	Z	-7.647	6.5
6	MP3A	Mx	0.009	6.5
7	MP3B	X	-4.532	1.5
8	MP3B	Z	-7.85	1.5
9	MP3B	Mx	-0.005	1.5
10	MP3B	X	-4.532	6.5
11	MP3B	Z	-7.85	6.5
12	MP3B	Mx	-0.005	6.5
13	MP3C	X	-2.445	1.5
14	MP3C	Z	-4.234	1.5
15	MP3C	Mx	-0.003	1.5
16	MP3C	X	-2.445	6.5
17	MP3C	Z	-4.234	6.5
18	MP3C	Mx	-0.003	6.5
19	MP3A	X	-4.415	1.5
20	MP3A	Z	-7.647	1.5
21	MP3A	Mx	-0.004	1.5
22	MP3A	X	-4.415	6.5
23	MP3A	Z	-7.647	6.5
24	MP3A	Mx	-0.004	6.5
25	MP3B	X	-4.532	1.5
26	MP3B	Z	-7.85	1.5
27	MP3B	Mx	0.009	1.5
28	MP3B	X	-4.532	6.5
29	MP3B	Z	-7.85	6.5
30	MP3B	Mx	0.009	6.5
31	MP3C	X	-2.445	1.5
32	MP3C	Z	-4.234	1.5
33	MP3C	Mx	-0.002	1.5
34	MP3C	X	-2.445	6.5
35	MP3C	Z	-4.234	6.5
36	MP3C	Mx	-0.002	6.5
37	MP1A	X	-1.819	3
38	MP1A	Z	-3.151	3
39	MP1A	Mx	0.000909	3
40	MP1A	X	-1.819	5
41	MP1A	Z	-3.151	5
42	MP1A	Mx	0.000909	5
43	MP1B	X	-1.881	3
44	MP1B	Z	-3.258	3
45	MP1B	Mx	0.000854	3
46	MP1B	X	-1.881	5
47	MP1B	Z	-3.258	5
48	MP1B	Mx	0.000854	5
49	MP1C	X	-0.784	3
50	MP1C	Z	-1.357	3
51	MP1C	Mx	-0.000778	3
52	MP1C	X	-0.784	5
53	MP1C	Z	-1.357	5
54	MP1C	Mx	-0.000778	5
55	MP3A	X	-3.694	2.5

Member Point Loads (BLC 38 : Antenna Wm (330 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP3A	Z	-6.399	2.5
57	MP3A	Mx	-0.002	2.5
58	MP3B	X	-3.803	2.5
59	MP3B	Z	-6.588	2.5
60	MP3B	Mx	-0.002	2.5
61	MP3C	X	-1.87	2.5
62	MP3C	Z	-3.238	2.5
63	MP3C	Mx	0.002	2.5
64	MP2A	X	-2.365	2.5
65	MP2A	Z	-4.097	2.5
66	MP2A	Mx	-0.001	2.5
67	MP2B	X	-2.401	2.5
68	MP2B	Z	-4.159	2.5
69	MP2B	Mx	-0.001	2.5
70	MP2C	X	-1.764	2.5
71	MP2C	Z	-3.056	2.5
72	MP2C	Mx	0.002	2.5
73	OVP	X	-4.303	1
74	OVP	Z	-7.454	1
75	OVP	Mx	0	1
76	OVP1	X	-4.303	1
77	OVP1	Z	-7.454	1
78	OVP1	Mx	0	1
79	OVP2	X	-4.303	1
80	OVP2	Z	-7.454	1
81	OVP2	Mx	0	1

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	L1	Y	-500	0

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	M76	Y	-500	0

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	LV	Y	-250	%50

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	LV	Y	-250	%100

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	Y	0	1.5
2	MP3A	My	0	1.5
3	MP3A	Mz	0	1.5
4	MP3A	Y	0	6.5

Member Point Loads (BLC 81 : Antenna Ev) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
5	MP3A	My	0	6.5
6	MP3A	Mz	0	6.5
7	MP3B	Y	0	1.5
8	MP3B	My	0	1.5
9	MP3B	Mz	0	1.5
10	MP3B	Y	0	6.5
11	MP3B	My	0	6.5
12	MP3B	Mz	0	6.5
13	MP3C	Y	0	1.5
14	MP3C	My	0	1.5
15	MP3C	Mz	0	1.5
16	MP3C	Y	0	6.5
17	MP3C	My	0	6.5
18	MP3C	Mz	0	6.5
19	MP3A	Y	0	1.5
20	MP3A	My	0	1.5
21	MP3A	Mz	0	1.5
22	MP3A	Y	0	6.5
23	MP3A	My	0	6.5
24	MP3A	Mz	0	6.5
25	MP3B	Y	0	1.5
26	MP3B	My	0	1.5
27	MP3B	Mz	0	1.5
28	MP3B	Y	0	6.5
29	MP3B	My	0	6.5
30	MP3B	Mz	0	6.5
31	MP3C	Y	0	1.5
32	MP3C	My	0	1.5
33	MP3C	Mz	0	1.5
34	MP3C	Y	0	6.5
35	MP3C	My	0	6.5
36	MP3C	Mz	0	6.5
37	MP1A	Y	0	3
38	MP1A	My	0	3
39	MP1A	Mz	0	3
40	MP1A	Y	0	5
41	MP1A	My	0	5
42	MP1A	Mz	0	5
43	MP1B	Y	0	3
44	MP1B	My	0	3
45	MP1B	Mz	0	3
46	MP1B	Y	0	5
47	MP1B	My	0	5
48	MP1B	Mz	0	5
49	MP1C	Y	0	3
50	MP1C	My	0	3
51	MP1C	Mz	0	3
52	MP1C	Y	0	5
53	MP1C	My	0	5
54	MP1C	Mz	0	5
55	MP3A	Y	0	2.5
56	MP3A	My	0	2.5
57	MP3A	Mz	0	2.5
58	MP3B	Y	0	2.5
59	MP3B	My	0	2.5

Member Point Loads (BLC 81 : Antenna Ev) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
60	MP3B	Mz	0	2.5
61	MP3C	Y	0	2.5
62	MP3C	My	0	2.5
63	MP3C	Mz	0	2.5
64	MP2A	Y	0	2.5
65	MP2A	My	0	2.5
66	MP2A	Mz	0	2.5
67	MP2B	Y	0	2.5
68	MP2B	My	0	2.5
69	MP2B	Mz	0	2.5
70	MP2C	Y	0	2.5
71	MP2C	My	0	2.5
72	MP2C	Mz	0	2.5
73	OVP	Y	0	1
74	OVP	My	0	1
75	OVP	Mz	0	1
76	OVP1	Y	0	1
77	OVP1	My	0	1
78	OVP1	Mz	0	1
79	OVP2	Y	0	1
80	OVP2	My	0	1
81	OVP2	Mz	0	1

Member Point Loads (BLC 82 : Antenna Eh (0 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	Z	-1.155	1.5
2	MP3A	Mx	0.000963	1.5
3	MP3A	Z	-1.155	6.5
4	MP3A	Mx	0.000963	6.5
5	MP3B	Z	-1.155	1.5
6	MP3B	Mx	-4e-5	1.5
7	MP3B	Z	-1.155	6.5
8	MP3B	Mx	-4e-5	6.5
9	MP3C	Z	-1.155	1.5
10	MP3C	Mx	-0.001	1.5
11	MP3C	Z	-1.155	6.5
12	MP3C	Mx	-0.001	6.5
13	MP3A	Z	-1.155	1.5
14	MP3A	Mx	-0.000963	1.5
15	MP3A	Z	-1.155	6.5
16	MP3A	Mx	-0.000963	6.5
17	MP3B	Z	-1.155	1.5
18	MP3B	Mx	0.001	1.5
19	MP3B	Z	-1.155	6.5
20	MP3B	Mx	0.001	6.5
21	MP3C	Z	-1.155	1.5
22	MP3C	Mx	0.000118	1.5
23	MP3C	Z	-1.155	6.5
24	MP3C	Mx	0.000118	6.5
25	MP1A	Z	-0.86	3
26	MP1A	Mx	0	3
27	MP1A	Z	-0.86	5
28	MP1A	Mx	0	5
29	MP1B	Z	-0.86	3
30	MP1B	Mx	0.00036	3

Member Point Loads (BLC 82 : Antenna Eh (0 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
31	MP1B	Z	-0.86	5
32	MP1B	Mx	0.00036	5
33	MP1C	Z	-0.86	3
34	MP1C	Mx	-0.000343	3
35	MP1C	Z	-0.86	5
36	MP1C	Mx	-0.000343	5
37	MP3A	Z	-2.637	2.5
38	MP3A	Mx	0	2.5
39	MP3B	Z	-2.637	2.5
40	MP3B	Mx	-0.001	2.5
41	MP3C	Z	-2.637	2.5
42	MP3C	Mx	0.001	2.5
43	MP2A	Z	-2.373	2.5
44	MP2A	Mx	0	2.5
45	MP2B	Z	-2.373	2.5
46	MP2B	Mx	-0.000995	2.5
47	MP2C	Z	-2.373	2.5
48	MP2C	Mx	0.000948	2.5
49	OVP	Z	-0.96	1
50	OVP	Mx	0	1
51	OVP1	Z	-0.96	1
52	OVP1	Mx	0	1
53	OVP2	Z	-0.96	1
54	OVP2	Mx	0	1

Member Point Loads (BLC 83 : Antenna Eh (90 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	1.155	1.5
2	MP3A	Mx	-0.000578	1.5
3	MP3A	X	1.155	6.5
4	MP3A	Mx	-0.000578	6.5
5	MP3B	X	1.155	1.5
6	MP3B	Mx	0.001	1.5
7	MP3B	X	1.155	6.5
8	MP3B	Mx	0.001	6.5
9	MP3C	X	1.155	1.5
10	MP3C	Mx	-0.000421	1.5
11	MP3C	X	1.155	6.5
12	MP3C	Mx	-0.000421	6.5
13	MP3A	X	1.155	1.5
14	MP3A	Mx	-0.000578	1.5
15	MP3A	X	1.155	6.5
16	MP3A	Mx	-0.000578	6.5
17	MP3B	X	1.155	1.5
18	MP3B	Mx	-0.000493	1.5
19	MP3B	X	1.155	6.5
20	MP3B	Mx	-0.000493	6.5
21	MP3C	X	1.155	1.5
22	MP3C	Mx	0.001	1.5
23	MP3C	X	1.155	6.5
24	MP3C	Mx	0.001	6.5
25	MP1A	X	0.86	3
26	MP1A	Mx	-0.00043	3
27	MP1A	X	0.86	5
28	MP1A	Mx	-0.00043	5

Member Point Loads (BLC 83 : Antenna Eh (90 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
29	MP1B	X	0.86	3
30	MP1B	Mx	0.000234	3
31	MP1B	X	0.86	5
32	MP1B	Mx	0.000234	5
33	MP1C	X	0.86	3
34	MP1C	Mx	0.000259	3
35	MP1C	X	0.86	5
36	MP1C	Mx	0.000259	5
37	MP3A	X	2.637	2.5
38	MP3A	Mx	0.001	2.5
39	MP3B	X	2.637	2.5
40	MP3B	Mx	-0.000718	2.5
41	MP3C	X	2.637	2.5
42	MP3C	Mx	-0.000793	2.5
43	MP2A	X	2.373	2.5
44	MP2A	Mx	0.001	2.5
45	MP2B	X	2.373	2.5
46	MP2B	Mx	-0.000646	2.5
47	MP2C	X	2.373	2.5
48	MP2C	Mx	-0.000714	2.5
49	OVP	X	0.96	1
50	OVP	Mx	0	1
51	OVP1	X	0.96	1
52	OVP1	Mx	0	1
53	OVP2	X	0.96	1
54	OVP2	Mx	0	1

Member Area Loads (BLC 39 : Structure D)

	Node A	Node B	Node C	Node D	Direction	Load	Direction A	Magnitude [ksf]	Direction B	Magnitude [ksf]	Direction C	Magnitude [ksf]	Direction D	Magnitude [ksf]	Exclude Braces
1	N61	N60	N82	N84	Y	Two Way		-0.005		-0.005		-0.005		-0.005	Yes
2	N33	N32	N54	N56	Y	Two Way		-0.005		-0.005		-0.005		-0.005	Yes
3	N3	N4	N28	N26	Y	Two Way		-0.005		-0.005		-0.005		-0.005	Yes

Member Area Loads (BLC 40 : Structure Di)

	Node A	Node B	Node C	Node D	Direction	Load	Direction A	Magnitude [ksf]	Direction B	Magnitude [ksf]	Direction C	Magnitude [ksf]	Direction D	Magnitude [ksf]	Exclude Braces
1	N61	N60	N82	N84	Y	Two Way		-0.011		-0.011		-0.011		-0.011	Yes
2	N33	N32	N54	N56	Y	Two Way		-0.011		-0.011		-0.011		-0.011	Yes
3	N3	N4	N28	N26	Y	Two Way		-0.011		-0.011		-0.011		-0.011	Yes

Envelope Node Reactions

	Node Label		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N1	max	2353.47	11	1077.01	23	1411.548	1	-0.11	4	1.772	8	0.978	22
2		min	-4065.269	5	230.766	5	-2394.183	7	-0.638	34	-1.786	2	0.22	42
3	N30	max	1406.614	10	1091.785	19	4827.337	1	1.086	19	1.683	4	0.059	6
4		min	-1402.773	4	223.323	1	-2864.259	7	0.369	64	-1.686	10	-0.125	24
5	N58	max	3989.136	9	1057.741	15	1633.072	1	-0.208	12	1.769	12	-0.233	50
6		min	-2267.493	3	229.296	9	-2621.409	7	-1.073	30	-1.759	6	-0.85	14
7	N179	max	57.186	10	1544.02	13	353.169	7	0	75	0	75	0	75
8		min	-57.253	4	-193.174	7	-2528.597	13	0	1	0	1	0	1
9	N180	max	246.229	3	1557.664	21	1275.855	21	0	75	0	75	0	75
10		min	-2209.958	21	-152.669	3	-142.171	3	0	1	0	1	0	1
11	N200	max	2190.043	17	1544.148	17	1264.367	17	0	75	0	75	0	75

Envelope Node Reactions (Continued)

Node Label		X [lb]		LC	Y [lb]		LC	Z [lb]		LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
12		min	-255.977	11	-159.292	11	-147.798	11	0	1	0	1	0	1	0	1
13	Totals:	max	5561.665	10	7059.883	20	5859.943	1								
14		min	-5561.666	4	2503.709	65	-5859.943	7								

Node Reactions

LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
1	N1	470.061	574.938	1411.548	-0.175	-0.834	0.493
2	N30	91.514	223.323	4827.337	0.42	-0.106	-0.079
3	N58	-606.309	614.754	1633.072	-0.223	0.847	-0.514
4	N179	-0.037	1478.884	-2441.323	0	0	0
5	N180	-263.517	207.982	201.748	0	0	0
6	N200	308.315	238.394	227.561	0	0	0
7	Totals:	0.027	3338.276	5859.943			
8	COG (ft):	X: 0	Y: 0.999	Z: 0			
9	N1	-1734.146	434.697	711.231	-0.138	-1.786	0.445
10	N30	-229.735	262.673	4379.862	0.415	-0.421	-0.037
11	N58	-1948.879	680.551	1598.982	-0.261	-0.285	-0.512
12	N179	-17.768	1358.85	-2233.118	0	0	0
13	N180	128.658	-69.6	-55.439	0	0	0
14	N200	916.901	671.103	595.337	0	0	0
15	Totals:	-2884.968	3338.275	4996.855			
16	COG (ft):	X: 0	Y: 0.999	Z: 0			
17	N1	-3366.24	324.604	-683.851	-0.117	-0.862	0.396
18	N30	-920.605	371.304	3009.382	0.453	0.747	-0.011
19	N58	-2267.493	696.883	1403.575	-0.293	0.054	-0.504
20	N179	-42.748	1032.934	-1682.322	0	0	0
21	N180	246.229	-152.669	-142.171	0	0	0
22	N200	1483.1	1065.22	905.689	0	0	0
23	Totals:	-4867.757	3338.275	2810.303			
24	COG (ft):	X: 0	Y: 0.999	Z: 0			
25	N1	-3963.441	260.188	-1833.452	-0.11	0.242	0.389
26	N30	-1402.773	504.365	838.609	0.526	1.683	0.021
27	N58	-2090.692	662.635	941.702	-0.313	0.367	-0.475
28	N179	-57.253	616.779	-999.345	0	0	0
29	N180	66.151	-38.237	-57.086	0	0	0
30	N200	1886.342	1332.549	1109.514	0	0	0
31	Totals:	-5561.666	3338.278	-0.058			
32	COG (ft):	X: 0	Y: 0.999	Z: 0			
33	N1	-4065.269	230.766	-2246.899	-0.137	-0.122	0.394
34	N30	-1081.706	616.347	-1282.545	0.569	0.802	0.058
35	N58	-1391.708	565.838	-306.67	-0.336	-0.811	-0.401
36	N179	-42.968	221.51	-352.084	0	0	0
37	N180	-379.264	257.435	169.417	0	0	0
38	N200	2066.403	1446.385	1192.931	0	0	0
39	Totals:	-4894.51	3338.28	-2825.85			
40	COG (ft):	X: 0	Y: 0.999	Z: 0			
41	N1	-3667.426	257.981	-2385.243	-0.196	-0.404	0.382
42	N30	-431.928	692.881	-2538.367	0.569	-0.264	0.059
43	N58	251.512	429.36	-1848.617	-0.353	-1.759	-0.316
44	N179	-16.313	-75.009	148.333	0	0	0
45	N180	-978.852	674.374	499.157	0	0	0
46	N200	1942.565	1358.694	1101.076	0	0	0
47	Totals:	-2900.443	3338.282	-5023.661			
48	COG (ft):	X: 0	Y: 0.999	Z: 0			
49	N1	-2181.996	362.301	-2394.183	-0.254	0.821	0.386

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
50	7	N30	-88.688	723.46	-2864.259	0.572	0.105	0.018
51	7	N58	2327.687	311.05	-2621.409	-0.338	-0.836	-0.278
52	7	N179	-0.006	-193.174	353.169	0	0	0
53	7	N180	-1557.492	1086.646	849.724	0	0	0
54	7	N200	1500.466	1048	817.015	0	0	0
55	7	Totals:	-0.028	3338.283	-5859.943			
56	7	COG (ft):	X: 0	Y: 0.999	Z: 0			
57	8	N1	19.103	502.226	-1695.378	-0.29	1.772	0.434
58	8	N30	238	684.035	-2420.125	0.577	0.417	-0.024
59	8	N58	3671.575	245.55	-2581.596	-0.3	0.3	-0.281
60	8	N179	16.321	-73.337	145.493	0	0	0
61	8	N180	-1951.571	1364.747	1106.089	0	0	0
62	8	N200	891.539	615.062	448.661	0	0	0
63	8	Totals:	2884.967	3338.284	-4996.856			
64	8	COG (ft):	X: 0	Y: 0.999	Z: 0			
65	9	N1	1654.583	612.634	-299.598	-0.312	0.848	0.483
66	9	N30	924.419	575.02	-1047.859	0.538	-0.748	-0.05
67	9	N58	3989.136	229.296	-2391.463	-0.268	-0.043	-0.289
68	9	N179	42.931	252.181	-404.229	0	0	0
69	9	N180	-2068.981	1448.134	1194.421	0	0	0
70	9	N200	325.667	221.019	138.426	0	0	0
71	9	Totals:	4867.756	3338.283	-2810.303			
72	9	COG (ft):	X: 0	Y: 0.999	Z: 0			
73	10	N1	2255.557	677.347	846.074	-0.319	-0.252	0.491
74	10	N30	1406.614	441.658	1126.735	0.464	-1.686	-0.083
75	10	N58	3807.321	263.512	-1932.72	-0.248	-0.358	-0.317
76	10	N179	57.186	668.144	-1086.696	0	0	0
77	10	N180	-1887.696	1333.438	1110.183	0	0	0
78	10	N200	-77.318	-45.819	-63.518	0	0	0
79	10	Totals:	5561.665	3338.281	0.057			
80	10	COG (ft):	X: 0	Y: 0.999	Z: 0			
81	11	N1	2353.47	706.849	1263.038	-0.292	0.109	0.486
82	11	N30	1084.604	329.988	3244.67	0.423	-0.804	-0.12
83	11	N58	3111.611	359.969	-681.732	-0.225	0.822	-0.391
84	11	N179	42.9	1063.42	-1734.184	0	0	0
85	11	N180	-1442.099	1037.343	881.855	0	0	0
86	11	N200	-255.977	-159.292	-147.798	0	0	0
87	11	Totals:	4894.509	3338.278	2825.849			
88	11	COG (ft):	X: 0	Y: 0.999	Z: 0			
89	12	N1	1955.231	679.615	1407.241	-0.233	0.389	0.498
90	12	N30	429.385	253.79	4499.38	0.423	0.265	-0.12
91	12	N58	1471.801	496.148	857.972	-0.208	1.769	-0.475
92	12	N179	17.849	1360.373	-2235.717	0	0	0
93	12	N180	-841.87	620.186	552.114	0	0	0
94	12	N200	-131.954	-71.836	-57.33	0	0	0
95	12	Totals:	2900.442	3338.277	5023.66			
96	12	COG (ft):	X: 0	Y: 0.999	Z: 0			
97	13	N1	-1460.533	1041.232	-540.48	-0.411	-0.239	0.971
98	13	N30	33.4	964.521	3034.465	1.03	-0.032	-0.117
99	13	N58	1432.766	1036.341	-480.894	-0.625	0.243	-0.845
100	13	N179	0.001	1544.02	-2528.597	0	0	0
101	13	N180	-1744.305	1238.805	1017.919	0	0	0
102	13	N200	1738.677	1234.962	1014.601	0	0	0
103	13	Totals:	0.006	7059.881	1517.013			
104	13	COG (ft):	X: 0	Y: 0.986	Z: 0			

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
105	14	N1	-2012.049	1006.329	-730.801	-0.399	-0.44	0.957
106	14	N30	-66.504	975.836	2906.799	1.032	-0.066	-0.109
107	14	N58	1079.905	1054.099	-460.879	-0.633	-0.003	-0.85
108	14	N179	-3.681	1512.866	-2474.449	0	0	0
109	14	N180	-1641.294	1166.662	951.779	0	0	0
110	14	N200	1893.096	1344.087	1107.484	0	0	0
111	14	Totals:	-750.528	7059.881	1299.934			
112	14	COG (ft):	X: 0	Y: 0.986	Z: 0			
113	15	N1	-2440.46	977.105	-1076.164	-0.389	-0.243	0.943
114	15	N30	-237.077	1003.007	2540.479	1.045	0.198	-0.103
115	15	N58	977.166	1057.741	-508.484	-0.639	0.044	-0.849
116	15	N179	-9.366	1431.173	-2335.9	0	0	0
117	15	N180	-1609.438	1144.477	929.195	0	0	0
118	15	N200	2040.669	1446.376	1188.993	0	0	0
119	15	Totals:	-1278.506	7059.881	738.12			
120	15	COG (ft):	X: 0	Y: 0.986	Z: 0			
121	16	N1	-2628.662	959.523	-1366.126	-0.383	-0.002	0.939
122	16	N30	-346.804	1036.708	1981.904	1.067	0.397	-0.095
123	16	N58	1030.116	1047.347	-651.443	-0.641	0.079	-0.84
124	16	N179	-12.62	1324.815	-2160.423	0	0	0
125	16	N180	-1656.587	1174.584	952.242	0	0	0
126	16	N200	2147.059	1516.904	1243.829	0	0	0
127	16	Totals:	-1467.497	7059.881	-0.017			
128	16	COG (ft):	X: 0	Y: 0.986	Z: 0			
129	17	N1	-2657.598	953.627	-1486.288	-0.387	-0.053	0.94
130	17	N30	-273.525	1066.282	1436.543	1.082	0.207	-0.084
131	17	N58	1238.082	1022.172	-977.364	-0.643	-0.188	-0.82
132	17	N179	-9.43	1222.229	-1991.377	0	0	0
133	17	N180	-1772.289	1251.425	1012.384	0	0	0
134	17	N200	2190.043	1544.148	1264.367	0	0	0
135	17	Totals:	-1284.717	7059.882	-741.735			
136	17	COG (ft):	X: 0	Y: 0.986	Z: 0			
137	18	N1	-2521.725	962.847	-1522.65	-0.401	-0.083	0.941
138	18	N30	-122.42	1085.843	1102.423	1.086	-0.029	-0.081
139	18	N58	1667.041	987.919	-1358.364	-0.645	-0.39	-0.797
140	18	N179	-3.64	1146.932	-1863.735	0	0	0
141	18	N180	-1926.21	1358.018	1097.515	0	0	0
142	18	N200	2152.835	1518.323	1238.65	0	0	0
143	18	Totals:	-754.119	7059.882	-1306.159			
144	18	COG (ft):	X: 0	Y: 0.986	Z: 0			
145	19	N1	-2126.334	989.372	-1502.18	-0.416	0.189	0.946
146	19	N30	-26.519	1091.785	1013.091	1.086	0.021	-0.089
147	19	N58	2188.719	957.305	-1566.134	-0.642	-0.194	-0.782
148	19	N179	-0.003	1119.152	-1815.339	0	0	0
149	19	N180	-2075.002	1463.3	1187.097	0	0	0
150	19	N200	2039.131	1438.969	1166.449	0	0	0
151	19	Totals:	-0.009	7059.883	-1517.017			
152	19	COG (ft):	X: 0	Y: 0.986	Z: 0			
153	20	N1	-1574.987	1024.256	-1311.967	-0.428	0.39	0.96
154	20	N30	73.691	1080.462	1140.61	1.084	0.055	-0.098
155	20	N58	2541.625	939.569	-1585.834	-0.634	0.053	-0.777
156	20	N179	3.61	1150.301	-1869.467	0	0	0
157	20	N180	-2178.108	1535.463	1253.19	0	0	0
158	20	N200	1884.695	1329.832	1073.53	0	0	0
159	20	Totals:	750.524	7059.883	-1299.938			

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
160	20	COG (ft):	X: 0	Y: 0.986	Z: 0			
161	21	N1	-1146.366	1053.501	-966.583	-0.439	0.193	0.974
162	21	N30	244.038	1053.262	1507.064	1.071	-0.209	-0.103
163	21	N58	2644.273	935.935	-1538.521	-0.628	0.005	-0.778
164	21	N179	9.378	1231.978	-2007.962	0	0	0
165	21	N180	-2209.958	1557.664	1275.855	0	0	0
166	21	N200	1737.138	1227.543	992.025	0	0	0
167	21	Totals:	1278.502	7059.883	-738.123			
168	21	COG (ft):	X: 0	Y: 0.986	Z: 0			
169	22	N1	-957.932	1071.106	-676.816	-0.445	-0.048	0.978
170	22	N30	353.749	1019.543	2065.85	1.05	-0.408	-0.111
171	22	N58	2591.063	946.323	-1395.756	-0.626	-0.029	-0.787
172	22	N179	12.613	1338.325	-2183.407	0	0	0
173	22	N180	-2162.755	1527.55	1252.853	0	0	0
174	22	N200	1630.756	1157.035	937.289	0	0	0
175	22	Totals:	1467.494	7059.882	0.014			
176	22	COG (ft):	X: 0	Y: 0.986	Z: 0			
177	23	N1	-929.201	1077.01	-556.431	-0.44	0.003	0.977
178	23	N30	280.388	989.991	2611.025	1.035	-0.218	-0.122
179	23	N58	2383.311	971.472	-1069.72	-0.624	0.237	-0.807
180	23	N179	9.419	1440.91	-2352.465	0	0	0
181	23	N180	-2047.046	1450.692	1192.617	0	0	0
182	23	N200	1587.842	1129.808	916.706	0	0	0
183	23	Totals:	1284.713	7059.882	741.731			
184	23	COG (ft):	X: 0	Y: 0.986	Z: 0			
185	24	N1	-1065.121	1067.784	-519.751	-0.426	0.033	0.977
186	24	N30	128.993	970.454	2945.052	1.031	0.019	-0.125
187	24	N58	1954.55	1005.706	-688.826	-0.622	0.439	-0.83
188	24	N179	3.716	1516.224	-2480.164	0	0	0
189	24	N180	-1893.086	1344.087	1107.488	0	0	0
190	24	N200	1625.063	1155.625	942.356	0	0	0
191	24	Totals:	754.116	7059.881	1306.156			
192	24	COG (ft):	X: 0	Y: 0.986	Z: 0			
193	25	N1	-861.605	694.102	-435.548	-0.631	-0.051	0.468
194	25	N30	5.68	345.004	1154.45	0.372	-0.007	0.029
195	25	N58	1182.489	804.055	-610.819	-1.066	0.051	-0.389
196	25	N179	-0.002	670.962	-1090.186	0	0	0
197	25	N180	-1279.538	897.947	741.351	0	0	0
198	25	N200	952.977	676.203	552.821	0	0	0
199	25	Totals:	0.001	4088.273	312.07			
200	25	COG (ft):	X: -0.285	Y: 0.816	Z: 0.733			
201	26	N1	-978.9	686.64	-472.792	-0.629	-0.102	0.465
202	26	N30	-11.564	347.106	1130.713	0.372	-0.024	0.031
203	26	N58	1110.943	807.561	-612.797	-1.068	-0.009	-0.389
204	26	N179	-0.91	664.576	-1079.114	0	0	0
205	26	N180	-1258.589	883.149	727.687	0	0	0
206	26	N200	985.382	699.241	572.41	0	0	0
207	26	Totals:	-153.639	4088.273	266.107			
208	26	COG (ft):	X: -0.285	Y: 0.816	Z: 0.733			
209	27	N1	-1065.878	680.781	-547.092	-0.627	-0.052	0.463
210	27	N30	-48.244	352.906	1057.705	0.374	0.038	0.032
211	27	N58	1093.994	808.442	-623.063	-1.07	0.009	-0.389
212	27	N179	-2.282	647.231	-1049.812	0	0	0
213	27	N180	-1252.318	878.703	723.003	0	0	0
214	27	N200	1015.496	720.209	588.921	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
215	27	Totals:	-259.232	4088.273	149.662			
216	27	COG (ft):	X: -0.285	Y: 0.816	Z: 0.733			
217	28	N1	-1097.755	677.359	-608.206	-0.627	0.006	0.462
218	28	N30	-73.926	360.003	942.022	0.377	0.088	0.034
219	28	N58	1103.535	806.637	-647.571	-1.071	0.026	-0.387
220	28	N179	-3.049	625.073	-1013.452	0	0	0
221	28	N180	-1261.923	884.788	727.487	0	0	0
222	28	N200	1036.937	734.414	599.716	0	0	0
223	28	Totals:	-296.182	4088.273	-0.003			
224	28	COG (ft):	X: -0.285	Y: 0.816	Z: 0.733			
225	29	N1	-1103.069	675.793	-630.304	-0.628	-0.013	0.462
226	29	N30	-56.81	365.96	829.164	0.38	0.041	0.036
227	29	N58	1140.65	801.524	-714.129	-1.072	-0.037	-0.383
228	29	N179	-2.288	604.024	-978.979	0	0	0
229	29	N180	-1285.607	900.52	739.592	0	0	0
230	29	N200	1046.469	740.452	604.165	0	0	0
231	29	Totals:	-260.655	4088.273	-150.49			
232	29	COG (ft):	X: -0.285	Y: 0.816	Z: 0.733			
233	30	N1	-1081.851	677.24	-637.805	-0.632	-0.028	0.462
234	30	N30	-22.076	370.031	762.344	0.38	-0.016	0.036
235	30	N58	1228.037	794.299	-796.195	-1.073	-0.087	-0.379
236	30	N179	-0.907	588.229	-952.313	0	0	0
237	30	N180	-1317.51	922.701	757.144	0	0	0
238	30	N200	1039.848	735.773	599.292	0	0	0
239	30	Totals:	-154.46	4088.273	-267.532			
240	30	COG (ft):	X: -0.285	Y: 0.816	Z: 0.733			
241	31	N1	-1002.736	682.809	-638.166	-0.635	0.037	0.462
242	31	N30	-3.94	371.658	744.949	0.38	0.004	0.034
243	31	N58	1338.641	788.004	-837.379	-1.072	-0.038	-0.377
244	31	N179	0	581.933	-941.394	0	0	0
245	31	N180	-1348.306	944.637	775.78	0	0	0
246	31	N200	1016.34	719.233	584.142	0	0	0
247	31	Totals:	-0.002	4088.273	-312.069			
248	31	COG (ft):	X: -0.285	Y: 0.816	Z: 0.733			
249	32	N1	-885.45	690.271	-600.927	-0.637	0.088	0.465
250	32	N30	13.32	369.555	768.676	0.38	0.021	0.031
251	32	N58	1410.191	784.499	-835.385	-1.07	0.022	-0.377
252	32	N179	0.904	588.318	-952.464	0	0	0
253	32	N180	-1369.26	959.437	789.442	0	0	0
254	32	N200	983.934	696.194	564.552	0	0	0
255	32	Totals:	153.638	4088.273	-266.106			
256	32	COG (ft):	X: -0.285	Y: 0.816	Z: 0.733			
257	33	N1	-798.463	696.13	-526.625	-0.638	0.039	0.467
258	33	N30	49.987	363.754	841.69	0.378	-0.041	0.03
259	33	N58	1427.136	783.618	-825.134	-1.069	0.004	-0.377
260	33	N179	2.281	605.661	-981.763	0	0	0
261	33	N180	-1375.53	963.883	794.13	0	0	0
262	33	N200	953.82	675.227	548.041	0	0	0
263	33	Totals:	259.232	4088.273	-149.662			
264	33	COG (ft):	X: -0.285	Y: 0.816	Z: 0.733			
265	34	N1	-766.575	699.553	-465.523	-0.638	-0.02	0.468
266	34	N30	75.669	356.656	957.384	0.374	-0.091	0.028
267	34	N58	1417.581	785.424	-800.635	-1.067	-0.013	-0.379
268	34	N179	3.047	627.819	-1018.122	0	0	0
269	34	N180	-1365.922	957.798	789.648	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
270	34	N200	932.381	661.023	537.251	0	0	0
271	34	Totals:	296.182	4088.273	0.003			
272	34	COG (ft):	X: -0.285	Y: 0.816	Z: 0.733			
273	35	N1	-761.272	701.12	-443.415	-0.637	-0.001	0.467
274	35	N30	58.551	350.7	1070.232	0.372	-0.044	0.026
275	35	N58	1380.476	790.536	-734.069	-1.066	0.05	-0.383
276	35	N179	2.285	648.868	-1052.596	0	0	0
277	35	N180	-1342.237	942.064	777.538	0	0	0
278	35	N200	922.852	654.986	532.8	0	0	0
279	35	Totals:	260.655	4088.273	150.49			
280	35	COG (ft):	X: -0.285	Y: 0.816	Z: 0.733			
281	36	N1	-782.491	699.672	-435.897	-0.634	0.014	0.468
282	36	N30	23.802	346.63	1137.049	0.372	0.013	0.026
283	36	N58	1293.098	797.759	-652.01	-1.065	0.1	-0.387
284	36	N179	0.91	664.664	-1079.265	0	0	0
285	36	N180	-1310.333	919.882	759.986	0	0	0
286	36	N200	929.474	659.665	537.669	0	0	0
287	36	Totals:	154.46	4088.273	267.532			
288	36	COG (ft):	X: -0.285	Y: 0.816	Z: 0.733			
289	37	N1	-1933.18	435.629	-1052.171	-0.569	-0.048	0.226
290	37	N30	1.383	399.512	1140.114	0.429	0.007	-0.106
291	37	N58	735.523	542.284	-359.312	-0.381	0.039	-0.427
292	37	N179	0.012	677.457	-1101.229	0	0	0
293	37	N180	-856.351	610.595	497.06	0	0	0
294	37	N200	2052.616	1422.798	1187.606	0	0	0
295	37	Totals:	0.001	4088.275	312.069			
296	37	COG (ft):	X: 0.893	Y: 0.816	Z: 0.733			
297	38	N1	-2050.495	428.185	-1089.378	-0.567	-0.099	0.224
298	38	N30	-15.864	401.612	1116.362	0.429	-0.009	-0.103
299	38	N58	663.988	545.778	-361.262	-0.383	-0.021	-0.427
300	38	N179	-0.897	671.071	-1090.157	0	0	0
301	38	N180	-835.416	595.798	483.382	0	0	0
302	38	N200	2085.047	1445.83	1207.159	0	0	0
303	38	Totals:	-153.639	4088.275	266.106			
304	38	COG (ft):	X: 0.893	Y: 0.816	Z: 0.733			
305	39	N1	-2137.459	422.338	-1163.723	-0.566	-0.05	0.221
306	39	N30	-52.539	407.41	1043.324	0.431	0.053	-0.102
307	39	N58	647.037	546.643	-371.532	-0.385	-0.003	-0.426
308	39	N179	-2.269	653.723	-1060.849	0	0	0
309	39	N180	-829.154	591.363	478.72	0	0	0
310	39	N200	2115.153	1466.798	1223.721	0	0	0
311	39	Totals:	-259.232	4088.275	149.661			
312	39	COG (ft):	X: 0.893	Y: 0.816	Z: 0.733			
313	40	N1	-2169.331	418.916	-1224.882	-0.565	0.009	0.221
314	40	N30	-78.213	414.504	927.617	0.435	0.103	-0.1
315	40	N58	656.578	544.82	-396.048	-0.386	0.013	-0.425
316	40	N179	-3.036	631.562	-1024.485	0	0	0
317	40	N180	-838.769	597.46	483.228	0	0	0
318	40	N200	2136.589	1481.012	1234.566	0	0	0
319	40	Totals:	-296.182	4088.275	-0.004			
320	40	COG (ft):	X: 0.893	Y: 0.816	Z: 0.733			
321	41	N1	-2174.689	417.352	-1246.956	-0.567	-0.01	0.221
322	41	N30	-61.092	420.463	814.73	0.437	0.056	-0.098
323	41	N58	693.722	539.677	-462.589	-0.387	-0.049	-0.421
324	41	N179	-2.275	610.507	-990.001	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
325	41	N180	-862.487	613.212	495.332	0	0	0
326	41	N200	2146.167	1487.064	1238.992	0	0	0
327	41	Totals:	-260.655	4088.275	-150.491			
328	41	COG (ft):	X: 0.893	Y: 0.816	Z: 0.733			
329	42	N1	-2153.517	418.802	-1254.436	-0.57	-0.025	0.22
330	42	N30	-26.352	424.535	747.871	0.437	-0.001	-0.098
331	42	N58	781.143	532.417	-544.644	-0.388	-0.1	-0.416
332	42	N179	-0.896	594.7	-963.316	0	0	0
333	42	N180	-894.428	635.418	512.888	0	0	0
334	42	N200	2139.589	1482.403	1234.103	0	0	0
335	42	Totals:	-154.46	4088.275	-267.533			
336	42	COG (ft):	X: 0.893	Y: 0.816	Z: 0.733			
337	43	N1	-2074.395	424.361	-1254.846	-0.573	0.04	0.221
338	43	N30	-8.207	426.163	730.455	0.437	0.019	-0.101
339	43	N58	891.752	526.108	-585.854	-0.387	-0.051	-0.414
340	43	N179	0.011	588.395	-952.382	0	0	0
341	43	N180	-925.232	657.369	531.551	0	0	0
342	43	N200	2116.069	1465.879	1219.006	0	0	0
343	43	Totals:	-0.002	4088.276	-312.07			
344	43	COG (ft):	X: 0.893	Y: 0.816	Z: 0.733			
345	44	N1	-1957.089	431.804	-1217.644	-0.575	0.091	0.223
346	44	N30	9.056	424.063	754.198	0.438	0.035	-0.103
347	44	N58	963.29	522.614	-583.887	-0.385	0.01	-0.414
348	44	N179	0.916	594.781	-963.452	0	0	0
349	44	N180	-946.172	672.168	545.227	0	0	0
350	44	N200	2083.637	1442.847	1199.451	0	0	0
351	44	Totals:	153.638	4088.276	-266.107			
352	44	COG (ft):	X: 0.893	Y: 0.816	Z: 0.733			
353	45	N1	-1870.115	437.652	-1143.297	-0.576	0.041	0.226
354	45	N30	45.717	418.265	827.241	0.436	-0.027	-0.104
355	45	N58	980.238	521.749	-573.632	-0.384	-0.008	-0.415
356	45	N179	2.293	612.127	-992.757	0	0	0
357	45	N180	-952.434	676.604	549.893	0	0	0
358	45	N200	2053.532	1421.878	1182.889	0	0	0
359	45	Totals:	259.231	4088.276	-149.663			
360	45	COG (ft):	X: 0.893	Y: 0.816	Z: 0.733			
361	46	N1	-1838.233	441.074	-1082.149	-0.577	-0.017	0.226
362	46	N30	71.392	411.169	942.959	0.432	-0.077	-0.106
363	46	N58	970.683	523.572	-549.125	-0.383	-0.025	-0.416
364	46	N179	3.059	634.288	-1029.12	0	0	0
365	46	N180	-942.815	670.506	545.387	0	0	0
366	46	N200	2032.096	1407.666	1172.05	0	0	0
367	46	Totals:	296.182	4088.275	0.002			
368	46	COG (ft):	X: 0.893	Y: 0.816	Z: 0.733			
369	47	N1	-1832.886	442.639	-1060.065	-0.575	0.002	0.226
370	47	N30	54.268	405.212	1055.836	0.429	-0.03	-0.108
371	47	N58	933.548	528.714	-482.577	-0.381	0.038	-0.42
372	47	N179	2.298	655.343	-1063.604	0	0	0
373	47	N180	-919.096	654.752	533.278	0	0	0
374	47	N200	2022.522	1401.615	1167.621	0	0	0
375	47	Totals:	260.655	4088.275	150.489			
376	47	COG (ft):	X: 0.893	Y: 0.816	Z: 0.733			
377	48	N1	-1854.059	441.189	-1052.568	-0.572	0.017	0.227
378	48	N30	19.512	401.14	1122.692	0.429	0.027	-0.108
379	48	N58	846.136	535.974	-400.528	-0.381	0.088	-0.425

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
380	48	N179	0.924	671.151	-1090.293	0	0	0
381	48	N180	-887.154	632.547	515.722	0	0	0
382	48	N200	2029.101	1406.275	1172.506	0	0	0
383	48	Totals:	154.46	4088.275	267.532			
384	48	COG (ft):	X: 0.893	Y: 0.816	Z: 0.733			
385	49	N1	-958.895	623.2	-551.979	-0.541	-0.007	0.444
386	49	N30	0.925	412.112	963.87	0.432	0	-0.032
387	49	N58	955.695	615.008	-548.447	-0.597	0.006	-0.402
388	49	N179	0	634.108	-1028.815	0	0	0
389	49	N180	-1008.122	713.652	582.03	0	0	0
390	49	N200	1010.397	715.195	583.34	0	0	0
391	49	Totals:	0	3713.276	0			
392	49	COG (ft):	X: 0.008	Y: 0.898	Z: 0.404			
393	50	N1	-810.714	480.394	-471.665	-0.22	0.004	0.45
394	50	N30	4.788	456.003	949.09	0.478	-0.011	-0.001
395	50	N58	1598.336	343.861	-918.173	-0.318	0.004	-0.233
396	50	N179	-0.009	638.212	-1035.793	0	0	0
397	50	N180	-1674.955	1166.422	966.998	0	0	0
398	50	N200	882.553	628.386	509.544	0	0	0
399	50	Totals:	0	3713.279	0			
400	50	COG (ft):	X: -0.623	Y: 0.898	Z: 0.404			
401	51	N1	-996.186	546.656	-573.191	-0.25	-0.007	0.513
402	51	N30	1.077	551.957	1142.465	0.578	-0.001	-0.036
403	51	N58	1002.313	539.982	-574.769	-0.327	0.007	-0.462
404	51	N179	0	749.862	-1217.431	0	0	0
405	51	N180	-1062.702	755.548	613.545	0	0	0
406	51	N200	1055.497	750.654	609.381	0	0	0
407	51	Totals:	-0.001	3894.659	0			
408	51	COG (ft):	X: 0	Y: 0.999	Z: 0			
409	52	N1	-835.603	469.912	-467.147	-0.216	-0.017	0.44
410	52	N30	1.401	469.881	1036.487	0.493	-0.001	-0.031
411	52	N58	839.815	464.715	-467.342	-0.282	0.017	-0.397
412	52	N179	0	654.327	-1062.472	0	0	0
413	52	N180	-902.059	641.629	521.521	0	0	0
414	52	N200	896.445	637.816	518.276	0	0	0
415	52	Totals:	0	3338.279	79.323			
416	52	COG (ft):	X: 0	Y: 0.999	Z: 0			
417	53	N1	-861.542	468.258	-479.702	-0.215	-0.019	0.439
418	53	N30	-5.61	470.464	1028.389	0.494	0.006	-0.032
419	53	N58	819.488	465.785	-461.269	-0.282	0.013	-0.398
420	53	N179	-0.36	652.664	-1059.742	0	0	0
421	53	N180	-896.295	637.47	517.888	0	0	0
422	53	N200	904.657	643.638	523.129	0	0	0
423	53	Totals:	-39.662	3338.279	68.693			
424	53	COG (ft):	X: 0	Y: 0.999	Z: 0			
425	54	N1	-885.419	466.686	-495.361	-0.214	-0.017	0.438
426	54	N30	-10.87	471.755	1007.124	0.495	0.011	-0.032
427	54	N58	809.777	466.066	-463.605	-0.281	0.006	-0.398
428	54	N179	-0.624	648.344	-1052.66	0	0	0
429	54	N180	-894.436	636.028	516.399	0	0	0
430	54	N200	912.878	649.4	527.764	0	0	0
431	54	Totals:	-68.695	3338.279	39.66			
432	54	COG (ft):	X: 0	Y: 0.999	Z: 0			
433	55	N1	-900.841	465.616	-509.933	-0.213	-0.013	0.437
434	55	N30	-12.971	473.409	978.386	0.496	0.012	-0.032

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
435	55	N58	813.283	465.482	-473.723	-0.281	0	-0.398
436	55	N179	-0.721	642.522	-1043.122	0	0	0
437	55	N180	-896.98	637.69	517.451	0	0	0
438	55	N200	918.906	653.56	530.939	0	0	0
439	55	Totals:	-79.325	3338.279	-0.001			
440	55	COG (ft):	X: 0	Y: 0.999	Z: 0			
441	56	N1	-903.671	465.336	-519.509	-0.212	-0.007	0.438
442	56	N30	-11.348	474.981	949.877	0.497	0.011	-0.031
443	56	N58	829.071	464.191	-488.913	-0.28	-0.005	-0.397
444	56	N179	-0.624	636.759	-1033.685	0	0	0
445	56	N180	-903.247	642.012	520.764	0	0	0
446	56	N200	921.124	655.001	531.804	0	0	0
447	56	Totals:	-68.695	3338.279	-39.662			
448	56	COG (ft):	X: 0	Y: 0.999	Z: 0			
449	57	N1	-893.155	465.92	-521.526	-0.212	0	0.438
450	57	N30	-6.438	476.051	929.238	0.498	0.006	-0.031
451	57	N58	852.904	462.537	-505.103	-0.279	-0.007	-0.396
452	57	N179	-0.361	632.6	-1026.878	0	0	0
453	57	N180	-911.554	647.833	525.449	0	0	0
454	57	N200	918.94	653.338	530.126	0	0	0
455	57	Totals:	-39.663	3338.279	-68.694			
456	57	COG (ft):	X: 0	Y: 0.999	Z: 0			
457	58	N1	-872.107	467.212	-515.443	-0.213	0.005	0.439
458	58	N30	0.446	476.332	921.994	0.498	0	-0.03
459	58	N58	878.402	460.965	-517.958	-0.279	-0.006	-0.395
460	58	N179	0	631.158	-1024.523	0	0	0
461	58	N180	-919.679	653.596	530.251	0	0	0
462	58	N200	912.937	649.017	526.356	0	0	0
463	58	Totals:	-0.001	3338.279	-79.323			
464	58	COG (ft):	X: 0	Y: 0.999	Z: 0			
465	59	N1	-846.168	468.866	-502.889	-0.213	0.007	0.44
466	59	N30	7.457	475.749	930.093	0.498	-0.007	-0.03
467	59	N58	898.73	459.895	-524.03	-0.279	-0.001	-0.394
468	59	N179	0.361	632.821	-1027.253	0	0	0
469	59	N180	-925.443	657.755	533.884	0	0	0
470	59	N200	904.725	643.194	521.503	0	0	0
471	59	Totals:	39.661	3338.279	-68.693			
472	59	COG (ft):	X: 0	Y: 0.999	Z: 0			
473	60	N1	-822.291	470.438	-487.23	-0.214	0.005	0.441
474	60	N30	12.717	474.457	951.358	0.497	-0.011	-0.03
475	60	N58	908.44	459.615	-521.695	-0.28	0.005	-0.393
476	60	N179	0.625	637.141	-1034.335	0	0	0
477	60	N180	-927.301	659.196	535.373	0	0	0
478	60	N200	896.504	637.432	516.868	0	0	0
479	60	Totals:	68.694	3338.279	-39.661			
480	60	COG (ft):	X: 0	Y: 0.999	Z: 0			
481	61	N1	-806.868	471.508	-472.658	-0.215	0	0.442
482	61	N30	14.818	472.804	980.096	0.495	-0.013	-0.03
483	61	N58	904.934	460.198	-511.577	-0.28	0.012	-0.394
484	61	N179	0.721	642.963	-1043.872	0	0	0
485	61	N180	-924.757	657.534	534.32	0	0	0
486	61	N200	890.476	633.272	513.692	0	0	0
487	61	Totals:	79.323	3338.279	0.001			
488	61	COG (ft):	X: 0	Y: 0.999	Z: 0			
489	62	N1	-804.038	471.788	-463.082	-0.216	-0.006	0.441

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
490	62	N30	13.195	471.232	1008.604	0.494	-0.012	-0.03
491	62	N58	889.147	461.49	-496.387	-0.281	0.017	-0.394
492	62	N179	0.625	648.725	-1053.31	0	0	0
493	62	N180	-918.491	653.213	531.008	0	0	0
494	62	N200	888.258	631.831	512.828	0	0	0
495	62	Totals:	68.694	3338.279	39.662			
496	62	COG (ft):	X: 0	Y: 0.999	Z: 0			
497	63	N1	-814.555	471.204	-461.065	-0.216	-0.012	0.441
498	63	N30	8.284	470.162	1029.244	0.493	-0.007	-0.031
499	63	N58	865.313	463.143	-480.197	-0.281	0.019	-0.396
500	63	N179	0.361	652.885	-1060.117	0	0	0
501	63	N180	-910.183	647.392	526.323	0	0	0
502	63	N200	890.442	633.494	514.505	0	0	0
503	63	Totals:	39.662	3338.279	68.694			
504	63	COG (ft):	X: 0	Y: 0.999	Z: 0			
505	64	N1	-622.127	352.771	-344.313	-0.162	-0.016	0.33
506	64	N30	1.171	351.604	791.641	0.369	-0.001	-0.024
507	64	N58	625.029	349.004	-344.17	-0.212	0.016	-0.298
508	64	N179	0	493.637	-801.566	0	0	0
509	64	N180	-674.327	479.73	390.042	0	0	0
510	64	N200	670.254	476.964	387.689	0	0	0
511	64	Totals:	0	2503.709	79.323			
512	64	COG (ft):	X: 0	Y: 0.999	Z: 0			
513	65	N1	-648.059	351.117	-356.863	-0.161	-0.017	0.329
514	65	N30	-5.842	352.188	783.545	0.37	0.006	-0.024
515	65	N58	604.707	350.074	-338.102	-0.212	0.011	-0.299
516	65	N179	-0.361	491.975	-798.838	0	0	0
517	65	N180	-668.568	475.573	386.412	0	0	0
518	65	N200	678.46	482.782	392.539	0	0	0
519	65	Totals:	-39.662	2503.709	68.693			
520	65	COG (ft):	X: 0	Y: 0.999	Z: 0			
521	66	N1	-671.927	349.545	-372.518	-0.16	-0.016	0.328
522	66	N30	-11.104	353.479	762.287	0.371	0.011	-0.024
523	66	N58	594.998	350.354	-340.441	-0.211	0.005	-0.299
524	66	N179	-0.625	487.657	-791.761	0	0	0
525	66	N180	-666.711	474.133	384.924	0	0	0
526	66	N200	686.675	488.541	397.17	0	0	0
527	66	Totals:	-68.695	2503.709	39.661			
528	66	COG (ft):	X: 0	Y: 0.999	Z: 0			
529	67	N1	-687.343	348.475	-387.087	-0.16	-0.011	0.328
530	67	N30	-13.205	355.133	733.558	0.372	0.013	-0.024
531	67	N58	598.501	349.77	-350.559	-0.211	-0.002	-0.299
532	67	N179	-0.722	481.84	-782.231	0	0	0
533	67	N180	-669.254	475.794	385.975	0	0	0
534	67	N200	692.698	492.697	400.342	0	0	0
535	67	Totals:	-79.324	2503.709	-0.001			
536	67	COG (ft):	X: 0	Y: 0.999	Z: 0			
537	68	N1	-690.17	348.195	-396.663	-0.159	-0.005	0.328
538	68	N30	-11.582	356.706	705.059	0.373	0.011	-0.024
539	68	N58	614.282	348.478	-365.747	-0.21	-0.007	-0.298
540	68	N179	-0.625	476.081	-772.801	0	0	0
541	68	N180	-675.516	480.113	389.285	0	0	0
542	68	N200	694.915	494.137	401.205	0	0	0
543	68	Totals:	-68.695	2503.709	-39.662			
544	68	COG (ft):	X: 0	Y: 0.999	Z: 0			

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
545	69	N1	-679.654	348.779	-398.683	-0.159	0.001	0.328
546	69	N30	-6.67	357.776	684.427	0.374	0.006	-0.023
547	69	N58	638.107	346.825	-381.933	-0.209	-0.008	-0.297
548	69	N179	-0.361	471.925	-765.999	0	0	0
549	69	N180	-683.817	485.93	393.966	0	0	0
550	69	N200	692.733	492.475	399.528	0	0	0
551	69	Totals:	-39.663	2503.71	-68.694			
552	69	COG (ft):	X: 0	Y: 0.999	Z: 0			
553	70	N1	-658.612	350.072	-392.605	-0.159	0.006	0.329
554	70	N30	0.215	358.056	677.186	0.374	0	-0.022
555	70	N58	663.597	345.252	-394.782	-0.209	-0.007	-0.296
556	70	N179	0	470.484	-763.646	0	0	0
557	70	N180	-691.936	491.689	398.764	0	0	0
558	70	N200	686.735	488.157	395.76	0	0	0
559	70	Totals:	-0.001	2503.71	-79.323			
560	70	COG (ft):	X: 0	Y: 0.999	Z: 0			
561	71	N1	-632.68	351.726	-380.056	-0.16	0.008	0.33
562	71	N30	7.228	357.473	685.282	0.374	-0.006	-0.022
563	71	N58	683.918	344.182	-400.85	-0.209	-0.002	-0.295
564	71	N179	0.361	472.145	-766.374	0	0	0
565	71	N180	-697.694	495.845	402.394	0	0	0
566	71	N200	678.529	482.338	390.91	0	0	0
567	71	Totals:	39.661	2503.71	-68.693			
568	71	COG (ft):	X: 0	Y: 0.999	Z: 0			
569	72	N1	-608.811	353.298	-364.401	-0.161	0.007	0.331
570	72	N30	12.49	356.181	706.54	0.373	-0.011	-0.022
571	72	N58	693.627	343.902	-398.512	-0.21	0.004	-0.294
572	72	N179	0.625	476.463	-773.451	0	0	0
573	72	N180	-699.551	497.286	403.883	0	0	0
574	72	N200	670.314	476.58	386.279	0	0	0
575	72	Totals:	68.694	2503.71	-39.661			
576	72	COG (ft):	X: 0	Y: 0.999	Z: 0			
577	73	N1	-593.396	354.368	-349.832	-0.162	0.002	0.332
578	73	N30	14.591	354.528	735.269	0.371	-0.013	-0.022
579	73	N58	690.124	344.486	-388.393	-0.21	0.01	-0.295
580	73	N179	0.722	482.281	-782.981	0	0	0
581	73	N180	-697.008	495.625	402.832	0	0	0
582	73	N200	664.291	472.423	383.107	0	0	0
583	73	Totals:	79.324	2503.709	0.001			
584	73	COG (ft):	X: 0	Y: 0.999	Z: 0			
585	74	N1	-590.569	354.648	-340.255	-0.162	-0.004	0.332
586	74	N30	12.967	352.955	763.768	0.37	-0.012	-0.022
587	74	N58	674.343	345.778	-373.206	-0.211	0.015	-0.295
588	74	N179	0.625	488.04	-792.411	0	0	0
589	74	N180	-690.746	491.306	399.522	0	0	0
590	74	N200	662.074	470.983	382.244	0	0	0
591	74	Totals:	68.694	2503.709	39.662			
592	74	COG (ft):	X: 0	Y: 0.999	Z: 0			
593	75	N1	-601.085	354.063	-338.235	-0.163	-0.011	0.331
594	75	N30	8.056	351.885	784.4	0.369	-0.007	-0.023
595	75	N58	650.518	347.431	-357.02	-0.211	0.017	-0.297
596	75	N179	0.361	492.196	-799.213	0	0	0
597	75	N180	-682.445	485.489	394.841	0	0	0
598	75	N200	664.256	472.645	383.921	0	0	0
599	75	Totals:	39.662	2503.709	68.694			

Node Reactions (Continued)

LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
600	75	COG (ft):	X: 0	Y: 0.999	Z: 0		

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

Member	Shape	Code Check	Loc[ft]	LC	Shear	Check	Loc[ft]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn
1	M1	HSS4X4X4	0.145	0	8	0.056	0.757	z	8	124657.752	139518	16.181	16.181	2.553	H1-1b
2	M2	HSS4X4X4	0.097	2.375	18	0.033	0.223	z	6	136263.03	139518	16.181	16.181	1.66	H1-1b
3	M3	HSS4X4X4	0.109	0	16	0.037	2.152	z	4	136263.03	139518	16.181	16.181	1.669	H1-1b
4	M4	PL1/2X6	0.147	0.516	5	0.116	0.516	y	39	66009.234	97200	1.012	12.15	1.217	H1-1b
5	M7	L2X2X3	0.138	0	6	0.011	4.162	y	21	9823.122	23392.8	0.558	1.113	1.331	H2-1
6	M8	L2X2X3	0.15	4.162	3	0.011	4.162	y	13	9823.122	23392.8	0.558	1.07	1.119	H2-1
7	M12	PL3/8X6	0.27	0	8	0.154	0	y	10	70677.955	72900	0.57	9.113	1.601	H1-1b
8	M13	PL3/8X6	0.234	0.167	12	0.171	0	y	24	71601.737	72900	0.57	9.113	1.221	H1-1b
9	M15	PL1/2X6	0.053	0.112	5	0.188	0	y	40	96757.507	97200	1.012	12.15	1.355	H1-1b
10	M17	PL3/8X6	0.367	0	2	0.109	0	y	11	70677.955	72900	0.57	9.113	1.26	H1-1b
11	M18	PL3/8X6	0.229	0.167	10	0.2	0	y	19	71601.737	72900	0.57	9.113	1.415	H1-1b
12	M20	PL1/2X6	0.05	0.112	5	0.101	0	y	6	96757.507	97200	1.012	12.15	1.283	H1-1b
13	M25	HSS4X4X4	0.14	0	4	0.053	0.757	z	4	124657.752	139518	16.181	16.181	2.561	H1-1b
14	M26	HSS4X4X4	0.099	2.375	14	0.034	0.223	z	2	136263.03	139518	16.181	16.181	1.659	H1-1b
15	M27	HSS4X4X4	0.109	0	24	0.038	2.152	z	12	136263.03	139518	16.181	16.181	1.677	H1-1b
16	M28	PL1/2X6	0.157	0.516	1	0.084	0.516	y	23	66009.234	97200	1.012	12.15	1.215	H1-1b
17	M31	L2X2X3	0.14	0	2	0.011	0	y	17	9823.122	23392.8	0.558	1.122	1.382	H2-1
18	M32	L2X2X3	0.15	4.162	12	0.011	4.162	y	21	9823.122	23392.8	0.558	1.113	1.331	H2-1
19	M36	PL3/8X6	0.249	0	4	0.157	0	y	7	70677.955	72900	0.57	9.113	1.569	H1-1b
20	M37	PL3/8X6	0.238	0.167	8	0.175	0	y	20	71601.737	72900	0.57	9.113	1.221	H1-1b
21	M39	PL1/2X6	0.056	0.112	1	0.11	0	y	12	96757.507	97200	1.012	12.15	1.354	H1-1b
22	M41	PL3/8X6	0.343	0	10	0.102	0	y	8	70677.955	72900	0.57	9.113	1.244	H1-1b
23	M42	PL3/8X6	0.239	0.167	6	0.201	0	y	15	71601.737	72900	0.57	9.113	1.519	H1-1b
24	M44	PL1/2X6	0.052	0.112	1	0.101	0	y	2	96757.507	97200	1.012	12.15	1.28	H1-1b
25	M49	HSS4X4X4	0.144	0	12	0.075	0	y	30	124657.752	139518	16.181	16.181	2.548	H1-1b
26	M50	HSS4X4X4	0.096	2.375	22	0.033	0.223	z	10	136263.03	139518	16.181	16.181	1.659	H1-1b
27	M51	HSS4X4X4	0.108	0	20	0.039	0	y	25	136263.03	139518	16.181	16.181	1.676	H1-1b
28	M52	PL1/2X6	0.15	0.516	9	0.083	0.516	y	19	66009.234	97200	1.012	12.15	1.216	H1-1b
29	M55	L2X2X3	0.137	0	10	0.011	0	y	13	9823.122	23392.8	0.558	1.122	1.382	H2-1
30	M56	L2X2X3	0.15	4.162	7	0.011	4.162	y	17	9823.122	23392.8	0.558	1.07	1.12	H2-1
31	M60	PL3/8X6	0.263	0	12	0.156	0	y	2	70677.955	72900	0.57	9.113	1.6	H1-1b
32	M61	PL3/8X6	0.228	0.167	4	0.166	0	y	16	71601.737	72900	0.57	9.113	1.218	H1-1b
33	M63	PL1/2X6	0.053	0.112	9	0.111	0	y	8	96757.507	97200	1.012	12.15	1.353	H1-1b
34	M65	PL3/8X6	0.355	0	6	0.103	0	y	3	70677.955	72900	0.57	9.113	1.249	H1-1b
35	M66	PL3/8X6	0.238	0.167	2	0.223	0	y	35	71601.737	72900	0.57	9.113	1.46	H1-1b
36	M68	PL1/2X6	0.051	0.112	9	0.129	0	y	50	96757.507	97200	1.012	12.15	1.283	H1-1b
37	LV	PIPE 3.0	0.1	7.943	10	0.089	8.073		8	28250.554	65205	5.749	5.749	1	H1-1b
38	M74	PIPE 3.0	0.102	7.943	6	0.081	8.073		4	28250.554	65205	5.749	5.749	1	H1-1b
39	M75	PIPE 3.0	0.105	7.943	2	0.084	8.073		12	28250.554	65205	5.749	5.749	1	H1-1b
40	MP1A	PIPE 2.0	0.304	4.917	5	0.192	1.5		7	14916.096	32130	1.872	1.872	1	H1-1b
41	MP2A	PIPE 2.0	0.346	4.917	3	0.125	2.417		6	14916.096	32130	1.872	1.872	1	H1-1b
42	MP3A	PIPE 2.0	0.42	4.917	1	0.119	2.417		8	14916.096	32130	1.872	1.872	1	H1-1b
43	MP4A	PIPE 2.0	0.317	4.917	9	0.205	1.5		7	14916.096	32130	1.872	1.872	1	H1-1b
44	MP1C	PIPE 2.0	0.301	4.917	1	0.191	1.5		3	14916.096	32130	1.872	1.872	1	H1-1b
45	MP4C	PIPE 2.0	0.316	4.917	6	0.201	1.5		3	14916.096	32130	1.872	1.872	1	H1-1b
46	MP1B	PIPE 2.0	0.302	4.917	9	0.187	1.5		11	14916.096	32130	1.872	1.872	1	H1-1b
47	MP4B	PIPE 2.0	0.314	4.917	1	0.202	1.5		11	14916.096	32130	1.872	1.872	1	H1-1b
48	OVP	PIPE 2.0	0.201	3	12	0.02	3		12	26521.424	32130	1.872	1.872	1	H1-1b
49	M103	PIPE 2.0	0.319	7.943	7	0.165	10.938		8	6295.422	32130	1.872	1.872	1	H1-1b
50	M104	PIPE 2.0	0.311	7.943	3	0.156	1.563		2	6295.422	32130	1.872	1.872	1	H1-1b
51	M105	PIPE 2.0	0.319	7.943	11	0.162	10.937		12	6295.422	32130	1.872	1.872	1	H1-1b

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

	Member	Shape	Code	Check	Loc[ft]	LC	Shear	Check	Loc[ft]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn
52	M118	LL3X3X4X0	0.04	4.931	13	0.002	4.931	z	10	74992.051	93312	6.48	4.911	1	H1-1b*		
53	MP2C	PIPE 2.0	0.348	4.917	12	0.127	2.417		2	14916.096	32130	1.872	1.872	1	H1-1b		
54	MP3C	PIPE 2.0	0.417	4.917	8	0.119	2.417		4	14916.096	32130	1.872	1.872	1	H1-1b		
55	MP2B	PIPE 2.0	0.35	4.917	7	0.121	2.417		10	14916.096	32130	1.872	1.872	1	H1-1b		
56	MP3B	PIPE 2.0	0.4	4.917	5	0.119	2.417		12	14916.096	32130	1.872	1.872	1	H1-1b		
57	M119	LL3X3X4X0	0.04	4.931	21	0.002	4.931	z	6	74992.051	93312	6.48	4.911	1	H1-1b*		
58	M120	LL3X3X4X0	0.04	4.931	17	0.002	4.931	z	2	74992.051	93312	6.48	4.911	1	H1-1b*		
59	M132	L2.5X2.5X4	0.404	1.143	7	0.07	1.143	z	6	36946.275	38556	1.114	2.537	1.5	H2-1		
60	M133	L2.5X2.5X4	0.39	1.143	3	0.072	1.143	z	8	36946.275	38556	1.114	2.537	1.5	H2-1		
61	M134	L2.5X2.5X4	0.403	1.143	11	0.068	1.143	z	4	36946.275	38556	1.114	2.537	1.5	H2-1		
62	OVP1	PIPE 2.0	0.201	3	6	0.02	3		6	26521.424	32130	1.872	1.872	1	H1-1b		
63	OVP2	PIPE 2.0	0.201	3	6	0.02	3		6	26521.424	32130	1.872	1.872	1	H1-1b		

I. Mount-to-Tower Connection Check

Custom Orientation Required

No

Tower Connection Bolt Checks

Yes

Bolt Orientation

Parallel

Bolt Quantity per Reaction:

4

d_x (in) (Delta X of typ. bolt config. sketch) :

6

d_y (in) (Delta Y of typ. bolt config. sketch) :

6

Bolt Type:

A325N

Bolt Diameter (in):

0.625

Required Tensile Strength / bolt (kips):

2.5

Required Shear Strength / bolt (kips):

0.5

Tensile Capacity / bolt (kips):

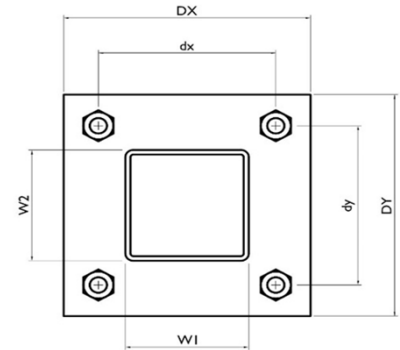
20.7

Shear Capacity / bolt (kips):

12.4

Bolt Overall Utilization:

12.2%



Tower Connection Baseplate Checks

Yes

Connecting Standoff Member Shape:

Rect Tube

Weld Stiffener Configuration:

No Stiffeners

Plate Width, D_x (in):

8

Plate Height, D_y (in):

8

W_1 (in):

4

W_2 (in):

4

Member Thickness (in):

0.25

Stiffener location a_1 (in):

Stiffener location b_1 (in):

Stiffener location a_2 (in):

Stiffener location b_2 (in):

F_y (ksi, plate):

36

Plate Thickness (in):

0.75

Length of Yield Line, L_y (in):

5.85

Bolt Eccentricity, e (in):

1.65

M_u (kip-in):

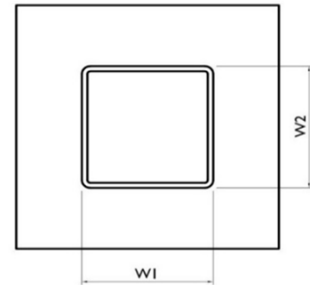
4.16

$\Phi * M_n$ (kip-in):

26.65

Plate Bending Utilization:

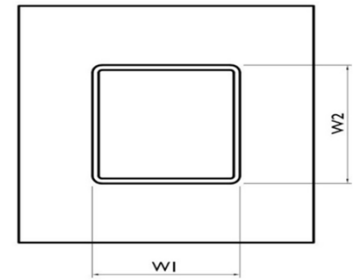
15.6%



Tower Connection Weld Checks

Weld Shape:
 Weld Stiffener Configuration:
 Stiffener Notch Length, n (in):
 Weld Size (1/16 in):
 W1 (in):
 W2 (in):
 Weld Total Length (in):
 Z_x (in³/in):
 Z_y (in³/in):
 J_p (in⁴/in):
 c_x (in)
 c_y (in)
 Required combined strength (kip/in):
 Weld Capacity (kip/in):
 Weld Utilization:

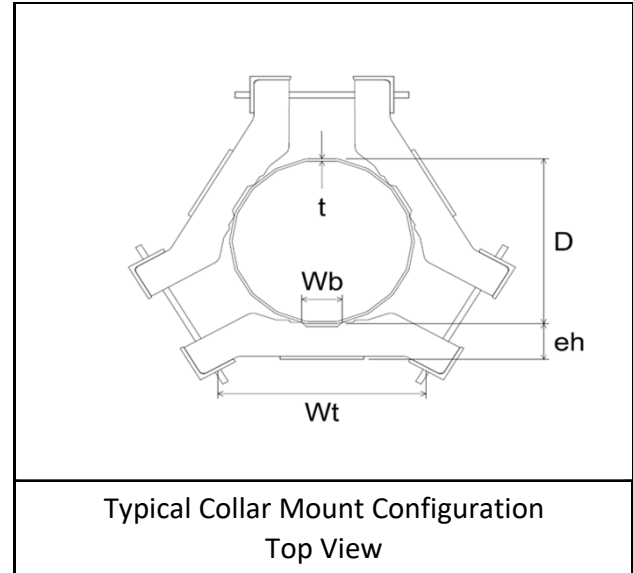
Yes
Rectangle
None
-
6
4
4
16.00
21.33
21.33
85.33
2.25
2.25
0.92
8.35
11.0%



 TES A CONGRUEX COMPANY	Collar # 1 Interaction Check			
	Customer:	Verizon	Project No:	25777026
	Carrier:	Verizon	Date:	6/12/2025
	Site Name:	OLD LYME SOUTH CT	TIA Standard:	ANSI/TIA-222-I
	Site Number:	5000246390	Engineer Name:	C. Lemkan

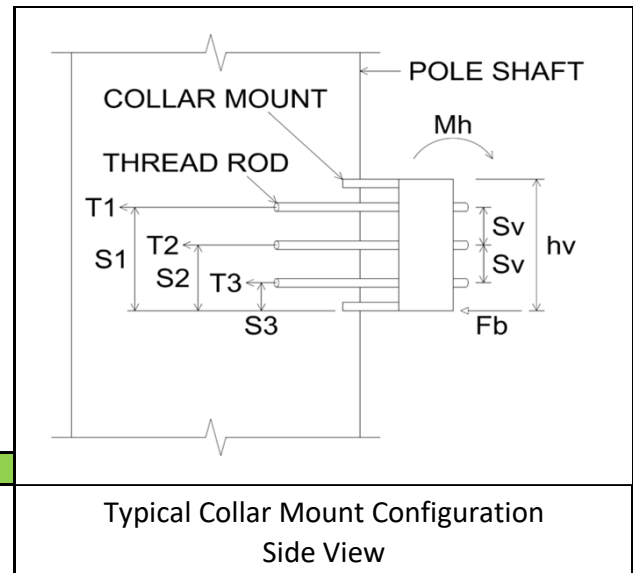
Collar Mount and Pole Shaft Data:

Max Moment, M_h [K-Ft] =	0.519
Collar Shape	3-sided
Vertical or Horizontal Bearing	Horizontal
# of Vert. Levels of Thread Rods	3
Collar Height, h_v [In]	9.5625
Thread Rod Vert. Spacing, S_v [In]	2.25
Thread Rod Width, W_t [In]	20.57
Bearing Width, W_b [In]	4
Add'l Horiz. Offset from Pole [In]	4
Pole Shaft Diameter, D [In]	29.01
Pole Thickness, t [In]	0.25
Pole F_y [KSI]	65
Thread Rod	0.625" SAE J429 Gr 5
Thread Rod Diameter [In]	0.625
Thread Rod F_y [KSI]	92
Thread Rod F_u [KSI]	120
Thread Rod Threads Per Inch	11



Thread Rod Check:

S_1 [In] =	7.03
S_2 [In] =	4.78
S_3 [In] =	2.53
y [In] =	6.05
δ [K] =	0.15
β =	0.19
T_1 [K] =	0.32
T_2 [K] =	0.19
T_3 [K] =	0.06
Thread Rod ϕ =	0.65
Thread Rod Capacity, ϕR_{nt} [K] =	17.63
Max Thread Rod Usage [%] =	1.84
	Pass



Pole Shaft Check:

Bearing Force, F_b [K] =	1.00
Pole Shaft ϕ =	0.90
Pole Shaft ϕR_n [K] =	22.638
Max Pole Shaft Usage [%] =	4.42
	Pass