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# Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10097861
Maser Consulting Connecticut Project #: 21777344A

August 26, 2021

| | | |
|---|---|---|
| ***Site Information*** | *Site ID:* | *467767-VZW / PRESTON CITY CT* |
| | *Site Name:* | *PRESTON CITY CT* |
| | *Carrier Name:* | *Verizon Wireless* |
| | *Address:* | *101 Pierce Road*<br>*Preston City, Connecticut 06365*<br>*New London County* |
| | *Latitude:* | *41.538183°* |
| | *Longitude:* | *-71.951667°* |
| ***Structure Information*** | *Tower Type:* | *155-Ft Monopole* |
| | *Mount Type:* | *13.33-Ft T-Arm* |

**FUZE ID # 16272096**

## Analysis Results

T-Arm: **62.8% Pass**

******Contractor PMI Requirements*:**
***Included at the end of this MA report***
***Available & Submitted via portal at https://pmi.vzwsmart.com***
***Contractor - Please Review Specific Site PMI Requirements Upon Award***
***Requirements also Noted on Mount Modification Drawings***
***Requirements may also be Noted on A & E drawings***

Report Prepared By: Zachary Bandilla


Digitally signed by Justin Linette
Date: 2021.08.26 15:09:33-04'00'

## Executive Summary:

The objective of this report is to summarize the analysis results of the antenna support mount including the proposed modifications at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards.

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 |
|---|---|
| *Radio Frequency Data Sheet (RFDS)* | *Verizon RFDS Site ID: 617628, dated August 12, 2021* |
| *Desktop Mount Mapping* | *Colliers Engineering & Design, Project #: 21777344, dated April 7, 2021* |
| *Previous Mount Analysis* | *Maser Consulting Connecticut, Project #: 21777344A, Dated August 20, 2021* |
| *Mount Modification Drawings* | *Maser Consulting Connecticut, Project #: 21777344A, Dated August 26, 2021* |

## Analysis Criteria:

| | | |
|---|---|---|
| Codes and Standards: | ANSI/TIA-222-H | |
| Wind Parameters: | Basic Wind Speed (Ultimate 3-sec. Gust), $V_{ULT}$: | 125 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, $K_e$: | 0.990 |
| Seismic Parameters: | $S_S$: | 0.189 |
| | $S_1$: | 0.053 |
| Maintenance Parameters: | Wind Speed (3-sec. Gust): | 30 mph |
| | Maintenance Live Load, Lv: | 250 lbs. |
| | Maintenance Live Load, Lm: | 500 lbs. |
| Analysis Software: | RISA-3D (V17) | |

## Final Loading Configuration:

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

| Mount Elevation (ft) | Equipment Elevation (ft) | Quantity | Manufacturer | Model | Status |
|---|---|---|---|---|---|
| 132.00 | 134.00 | 3 | Samsung | MT6407-77A | Added |
| | | 3 | Commscope | CBC78T-DS-43 | |
| | | 3 | Samsung | RF4439d-25A | |
| | | 3 | Samsung | RF4440d-13A | |
| | | 6 | Andrew | JAHH-65B-R3B | Retained |
| | | 6 | Antel | LPA-80063/6CF | |
| | | 1 | - | OVP-12 | |

It is acceptable to install up to any three (3) of the OVP model numbers listed below as required 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.

| Model Number | Ports | AKA |
|---|---|---|
| DB-B1-6C-12AB-0Z | 6 | OVP-6 |
| RVZDC-6627-PF-48 | 12 | OVP-12 |

## Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Maser Consulting Connecticut 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 Maser Consulting Connecticut 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.

   Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping and reported in the Mount Mapping Report are assumed to be corrected and documented as part of the PMI process and are not considered in the mount analysis.

   The mount analysis and the mount mapping are not a condition assessment of the mount. Proper maintenance and condition assessments are still required post analysis.

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped by Maser Consulting Connecticut, 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. Maser Consulting Connecticut 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

8. Any mount modifications listed under Sources of Information are assumed to have been installed per the design specifications.

**Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Maser Consulting Connecticut.**

## Analysis Results:

| Component | Utilization % | Pass/Fail |
|---|---|---|
| *Antenna Pipe* | *46.9 %* | *Pass* |
| *Face Horizontal* | *49.6 %* | *Pass* |
| *Vertical Pipe* | *11.9 %* | *Pass* |
| *Standoff* | *60.7 %* | *Pass* |
| *Mod Horizontal* | *57.4 %* | *Pass* |
| *Mod Standoff* | *58.2 %* | *Pass* |
| *Connection Check* | *62.8 %* | *Pass* |

| **Structure Rating – *(Controlling Utilization of all Components)*** | **62.8%** |
|---|---|

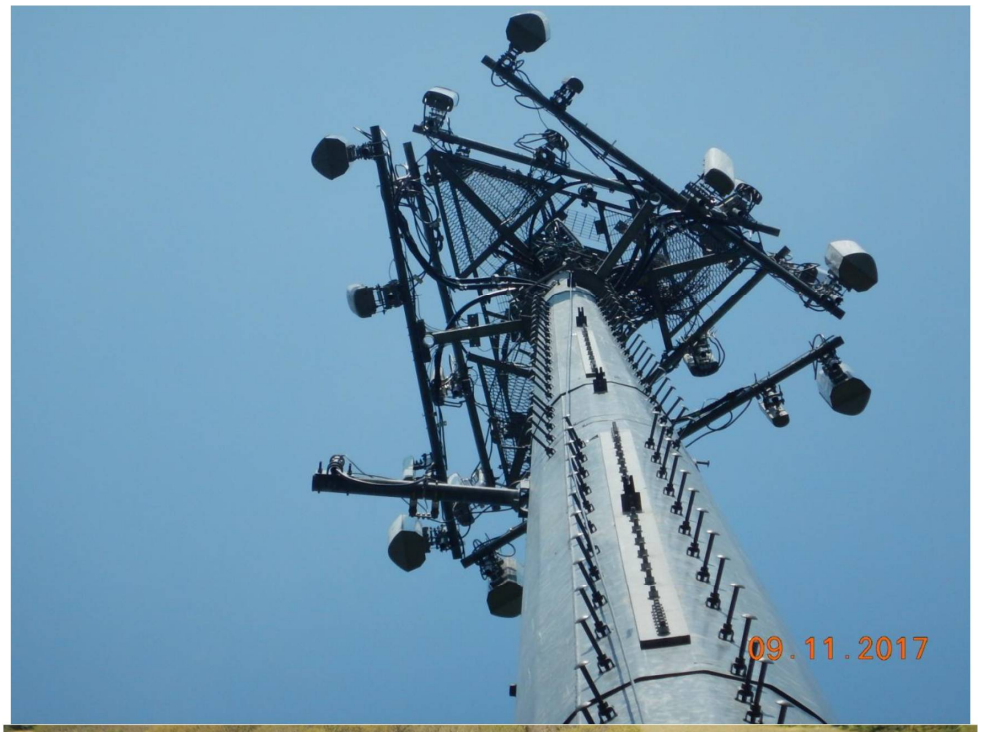
## Recommendation:

The existing mounts will be **SUFFICIENT** for the final loading after the proposed modifications are successfully completed.

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. Mount Photos
2. Mount Mapping Report (for reference only)
3. Analysis Calculations
4. **Contractor Required PMI Report Deliverables**
5. Antenna Placement Diagrams


09.11.2017


09.11.2017

# Desktop Mount Mapping Form

| | | | |
|---|---|---|---|
| **Site Name:** | PRESTON CITY CT | **Tower Type:** | Monopole |
| **Site ID:** | 467767 | **Tower Owner:** | Crown |
| **FUZE Project ID:** | | **Tower Height (Ft.):** | 155 |
| **Customer:** | Verizon Wireless | **Mount Elevation (Ft.):** | 129.3 |
| **TES Project No.** | 21777344 | **Date:** | 4/7/2021 |



| Document Type | Provided? (Yes/No) | Engineering Firm | Project No. | Dated | Comments/Remarks |
|---|---|---|---|---|---|
| Previous Mount Mapping | No | | | | |
| Previous Mapping Photos | No | | | | |
| Previous Mount Analysis | Yes | Dewberry | 50002925/50095231 | 9/14/2017 | Add a VSK-M monopole stabilizer kit by Connect-it Wireless. This will include an upper rail (face pipe (2-7/8" diameter) and have two stabilizer arms at 2- |
| Previous Mount Modifications | No | | | | |
| Previous Structural Analysis | No | | | | |
| Construction Drawings | No | | | | |
| Closeout Package | No | | | | |
| Closeout Photos | No | | | | |
| Handover Package | No | | | | |
| New Build 445 Documentation | No | | | | |
| Other | No | | | | |
| Previous PMI | No | | | | |

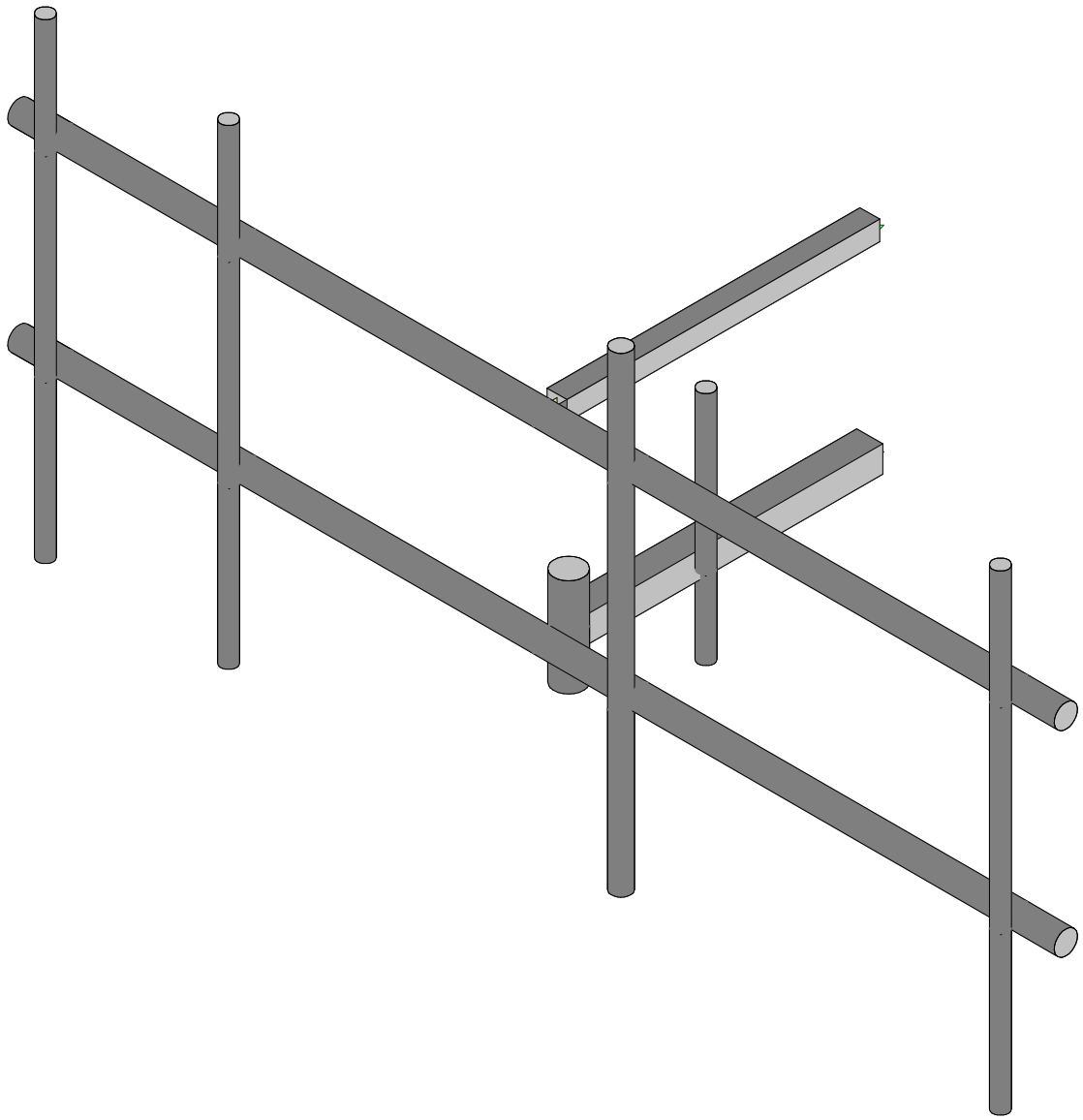
**The desktop mount mapping is based on the engineering review of the available site documents in FUZE, as listed above, in place of a full mount mapping. It is assumed that the information provided in the documents listed above, provide an accurate representation of the existing mount. EOR reserves the right and will typically require additional clarification and verification as will be included in the PMI requirements. During the PMI process, the GC on site will be required to confirm all questions, confirmations, and validations as posed by the EOR The engineering review for this desktop mount mapping was performed in accordance to the ANSI/TIA-222-H requirements and Verizon's NSTD446 standard.**

MOUNT PHOTO

Photo taken from: Mount Analysis

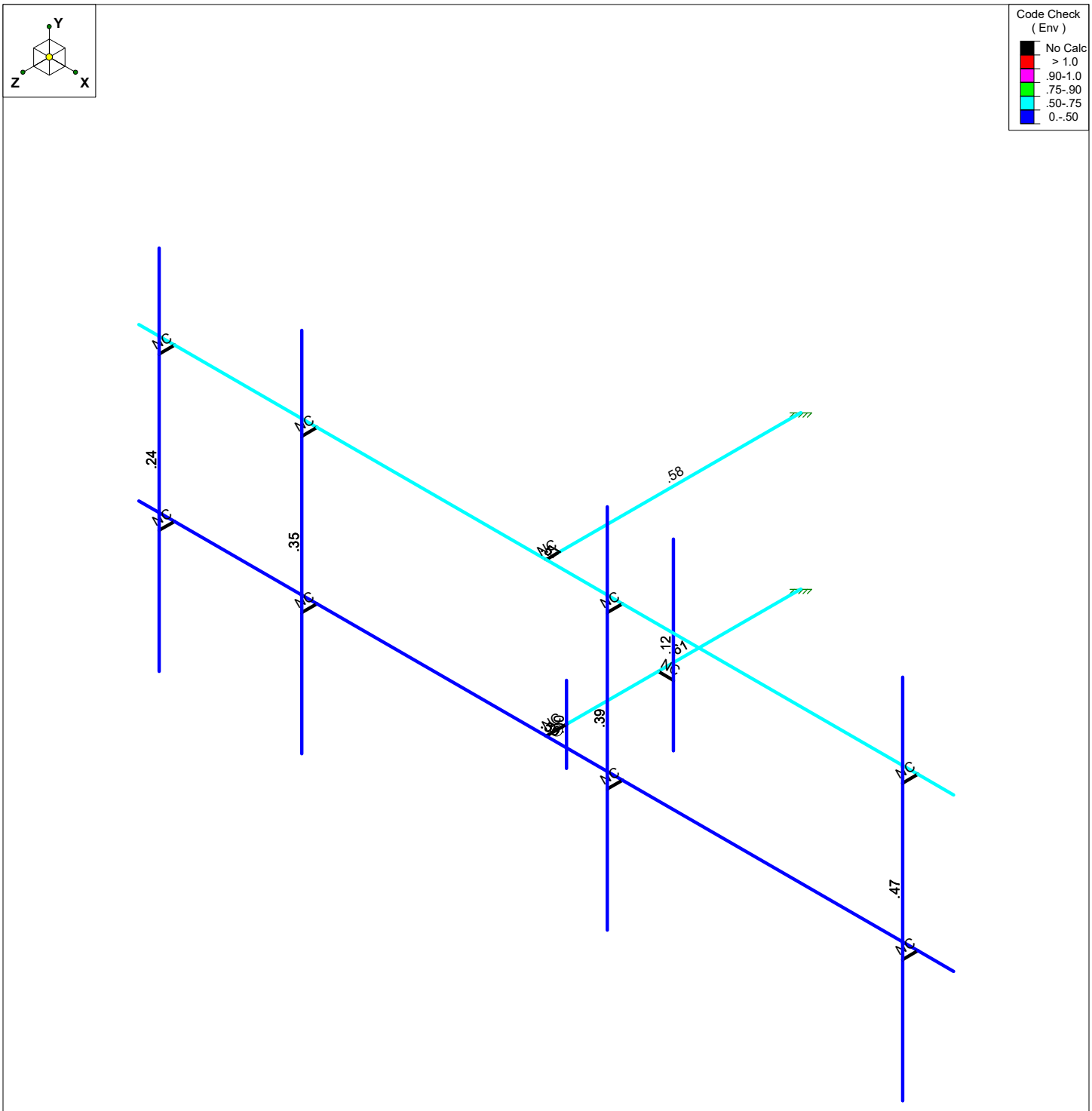
MOUNT PHOTO

Photo taken from: Mount Analysis



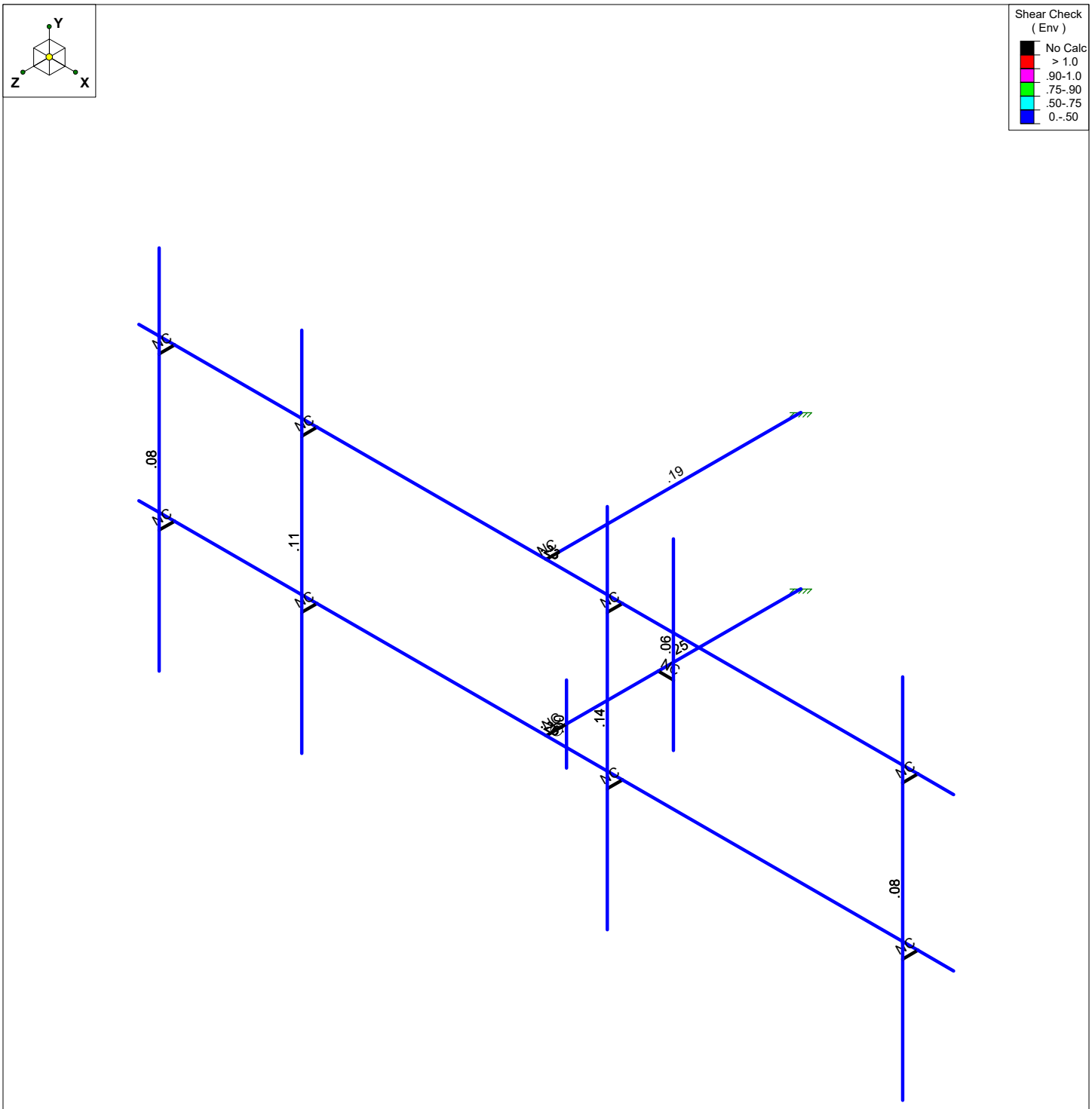

Envelope Only Solution

| | | |
|---|---|---|
| Maser Consulting | 467767-VZW_MT_LOT_SectorA_H | SK - 1 |
| DAB | | Aug 25, 2021 at 6:58 AM |
| Project No. 10052223 | | LOADED_467767-VZW_MT_LOT_... |




Member Code Checks Displayed (Enveloped)
Envelope Only Solution

| | | |
|---|---|---|
| Maser Consulting | 467767-VZW_MT_LOT_SectorA_H | SK - 2 |
| DAB | | Aug 25, 2021 at 6:58 AM |
| Project No. 10052223 | | LOADED_467767-VZW_MT_LOT_... |




Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

| | | |
|---|---|---|
| Maser Consulting | 467767-VZW_MT_LOT_SectorA_H | SK - 3 |
| DAB | | Aug 25, 2021 at 6:58 AM |
| Project No. 10052223 | | LOADED_467767-VZW_MT_LOT_... |

## Basic Load Cases

| | BLC Description | Category | X Gravity | Y Gravity | Z Gravity | Joint | Point | Distributed | Area(Me... | Surface(P... |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Antenna D | None | | | | | 42 | | | |
| 2 | Antenna Di | None | | | | | 42 | | | |
| 3 | Antenna Wo (0 Deg) | None | | | | | 42 | | | |
| 4 | Antenna Wo (30 Deg) | None | | | | | 42 | | | |
| 5 | Antenna Wo (60 Deg) | None | | | | | 42 | | | |
| 6 | Antenna Wo (90 Deg) | None | | | | | 42 | | | |
| 7 | Antenna Wo (120 Deg) | None | | | | | 42 | | | |
| 8 | Antenna Wo (150 Deg) | None | | | | | 42 | | | |
| 9 | Antenna Wo (180 Deg) | None | | | | | 42 | | | |
| 10 | Antenna Wo (210 Deg) | None | | | | | 42 | | | |
| 11 | Antenna Wo (240 Deg) | None | | | | | 42 | | | |
| 12 | Antenna Wo (270 Deg) | None | | | | | 42 | | | |
| 13 | Antenna Wo (300 Deg) | None | | | | | 42 | | | |
| 14 | Antenna Wo (330 Deg) | None | | | | | 42 | | | |
| 15 | Antenna Wi (0 Deg) | None | | | | | 42 | | | |
| 16 | Antenna Wi (30 Deg) | None | | | | | 42 | | | |
| 17 | Antenna Wi (60 Deg) | None | | | | | 42 | | | |
| 18 | Antenna Wi (90 Deg) | None | | | | | 42 | | | |
| 19 | Antenna Wi (120 Deg) | None | | | | | 42 | | | |
| 20 | Antenna Wi (150 Deg) | None | | | | | 42 | | | |
| 21 | Antenna Wi (180 Deg) | None | | | | | 42 | | | |
| 22 | Antenna Wi (210 Deg) | None | | | | | 42 | | | |
| 23 | Antenna Wi (240 Deg) | None | | | | | 42 | | | |
| 24 | Antenna Wi (270 Deg) | None | | | | | 42 | | | |
| 25 | Antenna Wi (300 Deg) | None | | | | | 42 | | | |
| 26 | Antenna Wi (330 Deg) | None | | | | | 42 | | | |
| 27 | Antenna Wm (0 Deg) | None | | | | | 42 | | | |
| 28 | Antenna Wm (30 Deg) | None | | | | | 42 | | | |
| 29 | Antenna Wm (60 Deg) | None | | | | | 42 | | | |
| 30 | Antenna Wm (90 Deg) | None | | | | | 42 | | | |
| 31 | Antenna Wm (120 Deg) | None | | | | | 42 | | | |
| 32 | Antenna Wm (150 Deg) | None | | | | | 42 | | | |
| 33 | Antenna Wm (180 Deg) | None | | | | | 42 | | | |
| 34 | Antenna Wm (210 Deg) | None | | | | | 42 | | | |
| 35 | Antenna Wm (240 Deg) | None | | | | | 42 | | | |
| 36 | Antenna Wm (270 Deg) | None | | | | | 42 | | | |
| 37 | Antenna Wm (300 Deg) | None | | | | | 42 | | | |
| 38 | Antenna Wm (330 Deg) | None | | | | | 42 | | | |
| 39 | Structure D | None | | -1 | | | | | | |
| 40 | Structure Di | None | | | | | | 10 | | |
| 41 | Structure Wo (0 Deg) | None | | | | | | 20 | | |
| 42 | Structure Wo (30 Deg) | None | | | | | | 20 | | |
| 43 | Structure Wo (60 Deg) | None | | | | | | 20 | | |
| 44 | Structure Wo (90 Deg) | None | | | | | | 20 | | |
| 45 | Structure Wo (120 D... | None | | | | | | 20 | | |
| 46 | Structure Wo (150 D... | None | | | | | | 20 | | |
| 47 | Structure Wo (180 D... | None | | | | | | 20 | | |
| 48 | Structure Wo (210 D... | None | | | | | | 20 | | |
| 49 | Structure Wo (240 D... | None | | | | | | 20 | | |
| 50 | Structure Wo (270 D... | None | | | | | | 20 | | |
| 51 | Structure Wo (300 D... | None | | | | | | 20 | | |
| 52 | Structure Wo (330 D... | None | | | | | | 20 | | |
| 53 | Structure Wi (0 Deg) | None | | | | | | 20 | | |
| 54 | Structure Wi (30 Deg) | None | | | | | | 20 | | |
| 55 | Structure Wi (60 Deg) | None | | | | | | 20 | | |
| 56 | Structure Wi (90 Deg) | None | | | | | | 20 | | |

## Basic Load Cases (Continued)

| | BLC Description | Category | X Gravity | Y Gravity | Z Gravity | Joint | Point | Distributed | Area(Me... | Surface(P... |
|---|---|---|---|---|---|---|---|---|---|---|
| 57 | Structure Wi (120 De... | None | | | | | | 20 | | |
| 58 | Structure Wi (150 De... | None | | | | | | 20 | | |
| 59 | Structure Wi (180 De... | None | | | | | | 20 | | |
| 60 | Structure Wi (210 De... | None | | | | | | 20 | | |
| 61 | Structure Wi (240 De... | None | | | | | | 20 | | |
| 62 | Structure Wi (270 De... | None | | | | | | 20 | | |
| 63 | Structure Wi (300 De... | None | | | | | | 20 | | |
| 64 | Structure Wi (330 De... | None | | | | | | 20 | | |
| 65 | Structure Wm (0 Deg) | None | | | | | | 20 | | |
| 66 | Structure Wm (30 De... | None | | | | | | 20 | | |
| 67 | Structure Wm (60 De... | None | | | | | | 20 | | |
| 68 | Structure Wm (90 De... | None | | | | | | 20 | | |
| 69 | Structure Wm (120 D... | None | | | | | | 20 | | |
| 70 | Structure Wm (150 D... | None | | | | | | 20 | | |
| 71 | Structure Wm (180 D... | None | | | | | | 20 | | |
| 72 | Structure Wm (210 D... | None | | | | | | 20 | | |
| 73 | Structure Wm (240 D... | None | | | | | | 20 | | |
| 74 | Structure Wm (270 D... | None | | | | | | 20 | | |
| 75 | Structure Wm (300 D... | None | | | | | | 20 | | |
| 76 | Structure Wm (330 D... | None | | | | | | 20 | | |
| 77 | Lm1 | None | | | | | 1 | | | |
| 78 | Lm2 | None | | | | | 1 | | | |
| 79 | Lv1 | None | | | | | 1 | | | |
| 80 | Lv2 | None | | | | | 1 | | | |

## Load Combinations

| | Description | Solve | P... | SR... | BLC | Fact... | BLC | Fact... | BLC | Fact... | BLC | Fact... | BLC | Fact... | BLC | Fact... | BLC | Fact... | BLC | Fact... | BLC | Fact... | BLC | Fact... |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.2D+1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 3 | 1 | 41 | 1 | | | | | | | | | | | | |
| 2 | 1.2D+1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 4 | 1 | 42 | 1 | | | | | | | | | | | | |
| 3 | 1.2D+1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 5 | 1 | 43 | 1 | | | | | | | | | | | | |
| 4 | 1.2D+1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 6 | 1 | 44 | 1 | | | | | | | | | | | | |
| 5 | 1.2D+1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 7 | 1 | 45 | 1 | | | | | | | | | | | | |
| 6 | 1.2D+1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 8 | 1 | 46 | 1 | | | | | | | | | | | | |
| 7 | 1.2D+1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 9 | 1 | 47 | 1 | | | | | | | | | | | | |
| 8 | 1.2D+1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 10 | 1 | 48 | 1 | | | | | | | | | | | | |
| 9 | 1.2D+1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 11 | 1 | 49 | 1 | | | | | | | | | | | | |
| 10 | 1.2D+1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 12 | 1 | 50 | 1 | | | | | | | | | | | | |
| 11 | 1.2D+1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 13 | 1 | 51 | 1 | | | | | | | | | | | | |
| 12 | 1.2D+1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 14 | 1 | 52 | 1 | | | | | | | | | | | | |
| 13 | 1.2D + 1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 15 | 1 | 53 | 1 | | | | | | | | |
| 14 | 1.2D + 1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 16 | 1 | 54 | 1 | | | | | | | | |
| 15 | 1.2D + 1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 17 | 1 | 55 | 1 | | | | | | | | |
| 16 | 1.2D + 1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 18 | 1 | 56 | 1 | | | | | | | | |
| 17 | 1.2D + 1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 19 | 1 | 57 | 1 | | | | | | | | |
| 18 | 1.2D + 1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 20 | 1 | 58 | 1 | | | | | | | | |
| 19 | 1.2D + 1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 21 | 1 | 59 | 1 | | | | | | | | |
| 20 | 1.2D + 1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 22 | 1 | 60 | 1 | | | | | | | | |
| 21 | 1.2D + 1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 23 | 1 | 61 | 1 | | | | | | | | |
| 22 | 1.2D + 1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 24 | 1 | 62 | 1 | | | | | | | | |
| 23 | 1.2D + 1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 25 | 1 | 63 | 1 | | | | | | | | |
| 24 | 1.2D + 1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 26 | 1 | 64 | 1 | | | | | | | | |
| 25 | 1.2D + 1.5... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 27 | 1 | 65 | 1 | | | | | | | | | | |
| 26 | 1.2D + 1.5... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 28 | 1 | 66 | 1 | | | | | | | | | | |
| 27 | 1.2D + 1.5... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 29 | 1 | 67 | 1 | | | | | | | | | | |
| 28 | 1.2D + 1.5... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 30 | 1 | 68 | 1 | | | | | | | | | | |

## Load Combinations (Continued)

| | Description | Solve | P... | SR.. | BLC | Fact.. | BLC | Fact.. | BLC | Fact.. | BLC | Fact.. | BLC | Fact.. | BLC | Fact.. | BLC | Fact.. | BLC | Fact.. | BLC | Fact.. | BLC | Fact... |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 29 | 1.2D + 1.5... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 31 | 1 | 69 | 1 | | | | | | | | | | |
| 30 | 1.2D + 1.5... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 32 | 1 | 70 | 1 | | | | | | | | | | |
| 31 | 1.2D + 1.5... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 33 | 1 | 71 | 1 | | | | | | | | | | |
| 32 | 1.2D + 1.5... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 34 | 1 | 72 | 1 | | | | | | | | | | |
| 33 | 1.2D + 1.5... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 35 | 1 | 73 | 1 | | | | | | | | | | |
| 34 | 1.2D + 1.5... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 36 | 1 | 74 | 1 | | | | | | | | | | |
| 35 | 1.2D + 1.5... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 37 | 1 | 75 | 1 | | | | | | | | | | |
| 36 | 1.2D + 1.5... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 38 | 1 | 76 | 1 | | | | | | | | | | |
| 37 | 1.2D + 1.5... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 27 | 1 | 65 | 1 | | | | | | | | | | |
| 38 | 1.2D + 1.5... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 28 | 1 | 66 | 1 | | | | | | | | | | |
| 39 | 1.2D + 1.5... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 29 | 1 | 67 | 1 | | | | | | | | | | |
| 40 | 1.2D + 1.5... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 30 | 1 | 68 | 1 | | | | | | | | | | |
| 41 | 1.2D + 1.5... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 31 | 1 | 69 | 1 | | | | | | | | | | |
| 42 | 1.2D + 1.5... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 32 | 1 | 70 | 1 | | | | | | | | | | |
| 43 | 1.2D + 1.5... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 33 | 1 | 71 | 1 | | | | | | | | | | |
| 44 | 1.2D + 1.5... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 34 | 1 | 72 | 1 | | | | | | | | | | |
| 45 | 1.2D + 1.5... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 35 | 1 | 73 | 1 | | | | | | | | | | |
| 46 | 1.2D + 1.5... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 36 | 1 | 74 | 1 | | | | | | | | | | |
| 47 | 1.2D + 1.5... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 37 | 1 | 75 | 1 | | | | | | | | | | |
| 48 | 1.2D + 1.5... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 38 | 1 | 76 | 1 | | | | | | | | | | |
| 49 | 1.2D + 1.5... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 79 | 1.5 | | | | | | | | | | | | | | |
| 50 | 1.2D + 1.5... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 80 | 1.5 | | | | | | | | | | | | | | |
| 51 | 1.4D | Yes | Y | | 1 | 1.4 | 39 | 1.4 | | | | | | | | | | | | | | | | |
| 52 | Seismic M... | | Y | | 1 | 1 | 39 | 1 | | | | | | | | | | | | | | | | |
| 53 | 1.2D + 1.0... | | Y | | 1 | 1.2 | 39 | 1.2 | SX | | SY | 1 | SZ | -1 | | | | | | | | | | |
| 54 | 1.2D + 1.0... | | Y | | 1 | 1.2 | 39 | 1.2 | SX | .5 | SY | 1 | SZ | -.866 | | | | | | | | | | |
| 55 | 1.2D + 1.0... | | Y | | 1 | 1.2 | 39 | 1.2 | SX | .866 | SY | 1 | SZ | -.5 | | | | | | | | | | |
| 56 | 1.2D + 1.0... | | Y | | 1 | 1.2 | 39 | 1.2 | SX | 1 | SY | 1 | SZ | | | | | | | | | | | |
| 57 | 1.2D + 1.0... | | Y | | 1 | 1.2 | 39 | 1.2 | SX | .866 | SY | 1 | SZ | .5 | | | | | | | | | | |
| 58 | 1.2D + 1.0... | | Y | | 1 | 1.2 | 39 | 1.2 | SX | .5 | SY | 1 | SZ | .866 | | | | | | | | | | |
| 59 | 1.2D + 1.0... | | Y | | 1 | 1.2 | 39 | 1.2 | SX | | SY | 1 | SZ | 1 | | | | | | | | | | |
| 60 | 1.2D + 1.0... | | Y | | 1 | 1.2 | 39 | 1.2 | SX | -.5 | SY | 1 | SZ | .866 | | | | | | | | | | |
| 61 | 1.2D + 1.0... | | Y | | 1 | 1.2 | 39 | 1.2 | SX | -.866 | SY | 1 | SZ | .5 | | | | | | | | | | |
| 62 | 1.2D + 1.0... | | Y | | 1 | 1.2 | 39 | 1.2 | SX | -1 | SY | 1 | SZ | | | | | | | | | | | |
| 63 | 1.2D + 1.0... | | Y | | 1 | 1.2 | 39 | 1.2 | SX | -.866 | SY | 1 | SZ | -.5 | | | | | | | | | | |
| 64 | 1.2D + 1.0... | | Y | | 1 | 1.2 | 39 | 1.2 | SX | -.5 | SY | 1 | SZ | -.866 | | | | | | | | | | |

## Joint Coordinates and Temperatures

| | Label | X [ft] | Y [ft] | Z [ft] | Temp [F] | Detach From Diap... |
|---|---|---|---|---|---|---|
| 1 | N1 | 0 | 0 | -1.208333 | 0 | |
| 2 | N2 | 0 | 0 | 2.625 | 0 | |
| 3 | N3 | 0 | 0 | 2.958333 | 0 | |
| 4 | N4 | 0 | -.625 | 2.625 | 0 | |
| 5 | N5 | 0 | .625 | 2.625 | 0 | |
| 6 | N6 | 6.666667 | 0 | 2.958333 | 0 | |
| 7 | N7 | -6.666667 | 0 | 2.958333 | 0 | |
| 8 | N8 | -6.083333 | 0 | 2.958333 | 0 | |
| 9 | N9 | 6.083333 | 0 | 2.958333 | 0 | |
| 10 | N10 | -6.083333 | 0 | 3.208333 | 0 | |
| 11 | N11 | 6.083333 | 0 | 3.208333 | 0 | |
| 12 | N12 | -6.083333 | 4 | 3.208333 | 0 | |
| 13 | N13 | 6.083333 | 4 | 3.208333 | 0 | |
| 14 | N14 | -6.083333 | -2 | 3.208333 | 0 | |
| 15 | N15 | 6.083333 | -2 | 3.208333 | 0 | |
| 16 | N16 | -3.75 | 0 | 2.958333 | 0 | |

## Joint Coordinates and Temperatures (Continued)

| | Label | X [ft] | Y [ft] | Z [ft] | Temp [F] | Detach From Diap... |
|---|---|---|---|---|---|---|
| 17 | N17 | -3.75 | 0 | 3.208333 | 0 | |
| 18 | N18 | -3.75 | 4 | 3.208333 | 0 | |
| 19 | N19 | -3.75 | -2 | 3.208333 | 0 | |
| 20 | N20 | 1.25 | 0 | 2.958333 | 0 | |
| 21 | N21 | 1.25 | 0 | 3.208333 | 0 | |
| 22 | N22 | 1.25 | 4 | 3.208333 | 0 | |
| 23 | N23 | 1.25 | -2 | 3.208333 | 0 | |
| 24 | N24 | .25 | 2 | 1.124667 | 0 | |
| 25 | N25 | .25 | -1 | 1.124667 | 0 | |
| 26 | N26 | .25 | 0 | 1.124667 | 0 | |
| 27 | N27 | 0 | 0 | 1.124667 | 0 | |
| 28 | N28 | 6.666667 | 2.5 | 2.958333 | 0 | |
| 29 | N29 | -6.666667 | 2.5 | 2.958333 | 0 | |
| 30 | N30 | -6.083333 | 2.5 | 2.958333 | 0 | |
| 31 | N31 | 6.083333 | 2.5 | 2.958333 | 0 | |
| 32 | N32 | -6.083333 | 2.5 | 3.208333 | 0 | |
| 33 | N33 | 6.083333 | 2.5 | 3.208333 | 0 | |
| 34 | N34 | -3.75 | 2.5 | 2.958333 | 0 | |
| 35 | N35 | -3.75 | 2.5 | 3.208333 | 0 | |
| 36 | N36 | 1.25 | 2.5 | 2.958333 | 0 | |
| 37 | N37 | 1.25 | 2.5 | 3.208333 | 0 | |
| 38 | N38 | 0 | 2.5 | -1.208333 | 0 | |
| 39 | N39 | 0 | 2.5 | 2.775 | 0 | |
| 40 | N40 | 0 | 2.5 | 2.958333 | 0 | |

## Hot Rolled Steel Section Sets

| | Label | Shape | Type | Design L... | Material | Design ... | A [in2] | Iyy [in4] | Izz [in4] | J [in4] |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Antenna Pipe 2 | PIPE_2.5 | Column | Pipe | A53 Gr. B | Typical | 1.61 | 1.45 | 1.45 | 2.89 |
| 2 | Antenna Pipe | PIPE_2.0 | Column | Pipe | A53 Gr. B | Typical | 1.02 | .627 | .627 | 1.25 |
| 3 | Face Horizontal | PIPE_3.0 | Beam | Pipe | A53 Gr. B | Typical | 2.07 | 2.85 | 2.85 | 5.69 |
| 4 | Vertical Pipe | PIPE_4.0 | Column | Pipe | A53 Gr. B | Typical | 2.96 | 6.82 | 6.82 | 13.6 |
| 5 | Standoff | HSS4X4X3 | Beam | SquareT... | A500 Gr. B 46 | Typical | 2.58 | 6.21 | 6.21 | 10 |
| 6 | Mod Horizontal | PIPE_3.0 | Beam | Single A... | A36 Gr.36 | Typical | 2.07 | 2.85 | 2.85 | 5.69 |
| 7 | Mod Standoff | HSS3X3X4 | Beam | Tube | A500 Gr. B 46 | Typical | 2.44 | 3.02 | 3.02 | 5.08 |

## Hot Rolled Steel Design Parameters

| | Label | Shape | Length[ft] | Lbyy[ft] | Lbzz[ft] | Lcomp top[ft] | Lcomp bot[ft] | L-torqu... | Kyy | Kzz | Cb | Function |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | M3 | Standoff | 3.833 | | | Lbyy | | | | | | Lateral |
| 2 | M4 | Vertical Pipe | 1.25 | | | Lbyy | | | | | | Lateral |
| 3 | M5 | Face Horizo... | 13.333 | | | Lbyy | | | | | | Lateral |
| 4 | MP1A | Antenna Pipe | 6 | | | Lbyy | | | | | | Lateral |
| 5 | MP4A | Antenna Pipe | 6 | | | Lbyy | | | | | | Lateral |
| 6 | MP3A | Antenna Pipe | 6 | | | Lbyy | | | | | | Lateral |
| 7 | MP2A | Antenna Pip... | 6 | | | Lbyy | | | | | | Lateral |
| 8 | M13 | Antenna Pipe | 3 | | | Lbyy | | | | | | Lateral |
| 9 | M15 | Mod Horizo... | 13.333 | | | Lbyy | | | | | | Lateral |
| 10 | M21 | Mod Standoff | 3.983 | | | Lbyy | | | | | | Lateral |

## Member Primary Data

| | Label | I Joint | J Joint | K Joint | Rotate(deg) | Section/Shape | Type | Design List | Material | Design Rules |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | M1 | N2 | N3 | | | RIGID | None | None | RIGID | Typical |
| 2 | M3 | N1 | N2 | | | Standoff | Beam | SquareTube | A500 Gr. ... | Typical |

## Member Primary Data (Continued)

| | Label | I Joint | J Joint | K Joint | Rotate(deg) | Section/Shape | Type | Design List | Material | Design Rules |
|---|---|---|---|---|---|---|---|---|---|---|
| 3 | M4 | N5 | N4 | | | Vertical Pipe | Column | Pipe | A53 Gr. B | Typical |
| 4 | M5 | N7 | N6 | | | Face Horizontal | Beam | Pipe | A53 Gr. B | Typical |
| 5 | MP1A | N13 | N15 | | | Antenna Pipe | Column | Pipe | A53 Gr. B | Typical |
| 6 | MP4A | N12 | N14 | | | Antenna Pipe | Column | Pipe | A53 Gr. B | Typical |
| 7 | M9 | N8 | N10 | | | RIGID | None | None | RIGID | Typical |
| 8 | M11 | N9 | N11 | | | RIGID | None | None | RIGID | Typical |
| 9 | MP3A | N18 | N19 | | | Antenna Pipe | Column | Pipe | A53 Gr. B | Typical |
| 10 | M12A | N16 | N17 | | | RIGID | None | None | RIGID | Typical |
| 11 | MP2A | N22 | N23 | | | Antenna Pipe 2 | Column | Pipe | A53 Gr. B | Typical |
| 12 | M12 | N20 | N21 | | | RIGID | None | None | RIGID | Typical |
| 13 | M13 | N24 | N25 | | | Antenna Pipe | Column | Pipe | A53 Gr. B | Typical |
| 14 | M14 | N27 | N26 | | | RIGID | None | None | RIGID | Typical |
| 15 | M15 | N29 | N28 | | | Mod Horizontal | Beam | Single Angle | A36 Gr.36 | Typical |
| 16 | M16 | N30 | N32 | | | RIGID | None | None | RIGID | Typical |
| 17 | M17 | N31 | N33 | | | RIGID | None | None | RIGID | Typical |
| 18 | M18 | N34 | N35 | | | RIGID | None | None | RIGID | Typical |
| 19 | M19 | N36 | N37 | | | RIGID | None | None | RIGID | Typical |
| 20 | M20 | N39 | N40 | | | RIGID | None | None | RIGID | Typical |
| 21 | M21 | N38 | N39 | | | Mod Standoff | Beam | Tube | A500 Gr. ... | Typical |

## Member Advanced Data

| | Label | I Release | J Release | I Offset[in] | J Offset[in] | T/C Only | Physical | Defl Rat... | Analysis ... | Inactive | Seismic... |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | M1 | OOOOXO | | | | | Yes | ** NA ** | | | None |
| 2 | M3 | | | | | | Yes | Default | | | None |
| 3 | M4 | | | | | | Yes | ** NA ** | | | None |
| 4 | M5 | | | | | | Yes | Default | | | None |
| 5 | MP1A | | | | | | Yes | ** NA ** | | | None |
| 6 | MP4A | | | | | | Yes | ** NA ** | | | None |
| 7 | M9 | | | | | | Yes | ** NA ** | | | None |
| 8 | M11 | | | | | | Yes | ** NA ** | | | None |
| 9 | MP3A | | | | | | Yes | ** NA ** | | | None |
| 10 | M12A | | | | | | Yes | ** NA ** | | | None |
| 11 | MP2A | | | | | | Yes | ** NA ** | | | None |
| 12 | M12 | | | | | | Yes | ** NA ** | | | None |
| 13 | M13 | | | | | | Yes | ** NA ** | | | None |
| 14 | M14 | | | | | | Yes | ** NA ** | | | None |
| 15 | M15 | | | | | | Yes | | | | None |
| 16 | M16 | | | | | | Yes | ** NA ** | | | None |
| 17 | M17 | | | | | | Yes | ** NA ** | | | None |
| 18 | M18 | | | | | | Yes | ** NA ** | | | None |
| 19 | M19 | | | | | | Yes | ** NA ** | | | None |
| 20 | M20 | | | | | | Yes | ** NA ** | | | None |
| 21 | M21 | | | | | | Yes | Default | | | None |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | Y | -43.55 | 1 |
| 2 | MP3A | My | -.022 | 1 |
| 3 | MP3A | Mz | 0 | 1 |
| 4 | MP3A | Y | -43.55 | 4 |
| 5 | MP3A | My | -.022 | 4 |
| 6 | MP3A | Mz | 0 | 4 |
| 7 | MP2A | Y | -10.4 | .75 |
| 8 | MP2A | My | -.003 | .75 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 9 | MP2A | Mz | .004 | .75 |
| 10 | MP2A | Y | -74.7 | 2.75 |
| 11 | MP2A | My | .037 | 2.75 |
| 12 | MP2A | Mz | 0 | 2.75 |
| 13 | MP1A | Y | -70.3 | 2.75 |
| 14 | MP1A | My | .035 | 2.75 |
| 15 | MP1A | Mz | 0 | 2.75 |
| 16 | MP2A | Y | -31.65 | .5 |
| 17 | MP2A | My | -.016 | .5 |
| 18 | MP2A | Mz | .024 | .5 |
| 19 | MP2A | Y | -31.65 | 4.5 |
| 20 | MP2A | My | -.016 | 4.5 |
| 21 | MP2A | Mz | .024 | 4.5 |
| 22 | MP2A | Y | -31.65 | .5 |
| 23 | MP2A | My | -.016 | .5 |
| 24 | MP2A | Mz | -.024 | .5 |
| 25 | MP2A | Y | -31.65 | 4.5 |
| 26 | MP2A | My | -.016 | 4.5 |
| 27 | MP2A | Mz | -.024 | 4.5 |
| 28 | MP1A | Y | -13.5 | .5 |
| 29 | MP1A | My | -.007 | .5 |
| 30 | MP1A | Mz | 0 | .5 |
| 31 | MP1A | Y | -13.5 | 4.5 |
| 32 | MP1A | My | -.007 | 4.5 |
| 33 | MP1A | Mz | 0 | 4.5 |
| 34 | MP4A | Y | -13.5 | .5 |
| 35 | MP4A | My | -.007 | .5 |
| 36 | MP4A | Mz | 0 | .5 |
| 37 | MP4A | Y | -13.5 | 4.5 |
| 38 | MP4A | My | -.007 | 4.5 |
| 39 | MP4A | Mz | 0 | 4.5 |
| 40 | M13 | Y | -32 | 1 |
| 41 | M13 | My | -.016 | 1 |
| 42 | M13 | Mz | 0 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | Y | -35.431 | 1 |
| 2 | MP3A | My | -.018 | 1 |
| 3 | MP3A | Mz | 0 | 1 |
| 4 | MP3A | Y | -35.431 | 4 |
| 5 | MP3A | My | -.018 | 4 |
| 6 | MP3A | Mz | 0 | 4 |
| 7 | MP2A | Y | -10.678 | .75 |
| 8 | MP2A | My | -.003 | .75 |
| 9 | MP2A | Mz | .004 | .75 |
| 10 | MP2A | Y | -44.667 | 2.75 |
| 11 | MP2A | My | .022 | 2.75 |
| 12 | MP2A | Mz | 0 | 2.75 |
| 13 | MP1A | Y | -42.536 | 2.75 |
| 14 | MP1A | My | .021 | 2.75 |
| 15 | MP1A | Mz | 0 | 2.75 |
| 16 | MP2A | Y | -69.596 | .5 |
| 17 | MP2A | My | -.035 | .5 |
| 18 | MP2A | Mz | .052 | .5 |
| 19 | MP2A | Y | -69.596 | 4.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 20 | MP2A | My | -.035 | 4.5 |
| 21 | MP2A | Mz | .052 | 4.5 |
| 22 | MP2A | Y | -69.596 | .5 |
| 23 | MP2A | My | -.035 | .5 |
| 24 | MP2A | Mz | -.052 | .5 |
| 25 | MP2A | Y | -69.596 | 4.5 |
| 26 | MP2A | My | -.035 | 4.5 |
| 27 | MP2A | Mz | -.052 | 4.5 |
| 28 | MP1A | Y | -88.233 | .5 |
| 29 | MP1A | My | -.044 | .5 |
| 30 | MP1A | Mz | 0 | .5 |
| 31 | MP1A | Y | -88.233 | 4.5 |
| 32 | MP1A | My | -.044 | 4.5 |
| 33 | MP1A | Mz | 0 | 4.5 |
| 34 | MP4A | Y | -88.233 | .5 |
| 35 | MP4A | My | -.044 | .5 |
| 36 | MP4A | Mz | 0 | .5 |
| 37 | MP4A | Y | -88.233 | 4.5 |
| 38 | MP4A | My | -.044 | 4.5 |
| 39 | MP4A | Mz | 0 | 4.5 |
| 40 | M13 | Y | -87.471 | 1 |
| 41 | M13 | My | -.044 | 1 |
| 42 | M13 | 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 |
| 2 | MP3A | Z | -106.713 | 1 |
| 3 | MP3A | Mx | 0 | 1 |
| 4 | MP3A | X | 0 | 4 |
| 5 | MP3A | Z | -106.713 | 4 |
| 6 | MP3A | Mx | 0 | 4 |
| 7 | MP2A | X | 0 | .75 |
| 8 | MP2A | Z | -13.764 | .75 |
| 9 | MP2A | Mx | -.005 | .75 |
| 10 | MP2A | X | 0 | 2.75 |
| 11 | MP2A | Z | -84.916 | 2.75 |
| 12 | MP2A | Mx | 0 | 2.75 |
| 13 | MP1A | X | 0 | 2.75 |
| 14 | MP1A | Z | -84.916 | 2.75 |
| 15 | MP1A | Mx | 0 | 2.75 |
| 16 | MP2A | X | 0 | .5 |
| 17 | MP2A | Z | -206.842 | .5 |
| 18 | MP2A | Mx | -.155 | .5 |
| 19 | MP2A | X | 0 | 4.5 |
| 20 | MP2A | Z | -206.842 | 4.5 |
| 21 | MP2A | Mx | -.155 | 4.5 |
| 22 | MP2A | X | 0 | .5 |
| 23 | MP2A | Z | -206.842 | .5 |
| 24 | MP2A | Mx | .155 | .5 |
| 25 | MP2A | X | 0 | 4.5 |
| 26 | MP2A | Z | -206.842 | 4.5 |
| 27 | MP2A | Mx | .155 | 4.5 |
| 28 | MP1A | X | 0 | .5 |
| 29 | MP1A | Z | -217.967 | .5 |
| 30 | MP1A | Mx | 0 | .5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 31 | MP1A | X | 0 | 4.5 |
| 32 | MP1A | Z | -217.967 | 4.5 |
| 33 | MP1A | Mx | 0 | 4.5 |
| 34 | MP4A | X | 0 | .5 |
| 35 | MP4A | Z | -217.967 | .5 |
| 36 | MP4A | Mx | 0 | .5 |
| 37 | MP4A | X | 0 | 4.5 |
| 38 | MP4A | Z | -217.967 | 4.5 |
| 39 | MP4A | Mx | 0 | 4.5 |
| 40 | M13 | X | 0 | 1 |
| 41 | M13 | Z | -184.364 | 1 |
| 42 | M13 | Mx | 0 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | 45.24 | 1 |
| 2 | MP3A | Z | -78.357 | 1 |
| 3 | MP3A | Mx | -.023 | 1 |
| 4 | MP3A | X | 45.24 | 4 |
| 5 | MP3A | Z | -78.357 | 4 |
| 6 | MP3A | Mx | -.023 | 4 |
| 7 | MP2A | X | 5.891 | .75 |
| 8 | MP2A | Z | -10.203 | .75 |
| 9 | MP2A | Mx | -.006 | .75 |
| 10 | MP2A | X | 38.939 | 2.75 |
| 11 | MP2A | Z | -67.444 | 2.75 |
| 12 | MP2A | Mx | .019 | 2.75 |
| 13 | MP1A | X | 38.3 | 2.75 |
| 14 | MP1A | Z | -66.338 | 2.75 |
| 15 | MP1A | Mx | .019 | 2.75 |
| 16 | MP2A | X | 94.547 | .5 |
| 17 | MP2A | Z | -163.76 | .5 |
| 18 | MP2A | Mx | -.17 | .5 |
| 19 | MP2A | X | 94.547 | 4.5 |
| 20 | MP2A | Z | -163.76 | 4.5 |
| 21 | MP2A | Mx | -.17 | 4.5 |
| 22 | MP2A | X | 94.547 | .5 |
| 23 | MP2A | Z | -163.76 | .5 |
| 24 | MP2A | Mx | .076 | .5 |
| 25 | MP2A | X | 94.547 | 4.5 |
| 26 | MP2A | Z | -163.76 | 4.5 |
| 27 | MP2A | Mx | .076 | 4.5 |
| 28 | MP1A | X | 106.074 | .5 |
| 29 | MP1A | Z | -183.725 | .5 |
| 30 | MP1A | Mx | -.053 | .5 |
| 31 | MP1A | X | 106.074 | 4.5 |
| 32 | MP1A | Z | -183.725 | 4.5 |
| 33 | MP1A | Mx | -.053 | 4.5 |
| 34 | MP4A | X | 106.074 | .5 |
| 35 | MP4A | Z | -183.725 | .5 |
| 36 | MP4A | Mx | -.053 | .5 |
| 37 | MP4A | X | 106.074 | 4.5 |
| 38 | MP4A | Z | -183.725 | 4.5 |
| 39 | MP4A | Mx | -.053 | 4.5 |
| 40 | M13 | X | 86.719 | 1 |
| 41 | M13 | Z | -150.201 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 42 | M13 | Mx | -.043 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | 50.24 | 1 |
| 2 | MP3A | Z | -29.006 | 1 |
| 3 | MP3A | Mx | -.025 | 1 |
| 4 | MP3A | X | 50.24 | 4 |
| 5 | MP3A | Z | -29.006 | 4 |
| 6 | MP3A | Mx | -.025 | 4 |
| 7 | MP2A | X | 10.592 | .75 |
| 8 | MP2A | Z | -6.115 | .75 |
| 9 | MP2A | Mx | -.006 | .75 |
| 10 | MP2A | X | 55.253 | 2.75 |
| 11 | MP2A | Z | -31.9 | 2.75 |
| 12 | MP2A | Mx | .028 | 2.75 |
| 13 | MP1A | X | 51.935 | 2.75 |
| 14 | MP1A | Z | -29.985 | 2.75 |
| 15 | MP1A | Mx | .026 | 2.75 |
| 16 | MP2A | X | 133.02 | .5 |
| 17 | MP2A | Z | -76.799 | .5 |
| 18 | MP2A | Mx | -.124 | .5 |
| 19 | MP2A | X | 133.02 | 4.5 |
| 20 | MP2A | Z | -76.799 | 4.5 |
| 21 | MP2A | Mx | -.124 | 4.5 |
| 22 | MP2A | X | 133.02 | .5 |
| 23 | MP2A | Z | -76.799 | .5 |
| 24 | MP2A | Mx | -.009 | .5 |
| 25 | MP2A | X | 133.02 | 4.5 |
| 26 | MP2A | Z | -76.799 | 4.5 |
| 27 | MP2A | Mx | -.009 | 4.5 |
| 28 | MP1A | X | 173.645 | .5 |
| 29 | MP1A | Z | -100.254 | .5 |
| 30 | MP1A | Mx | -.087 | .5 |
| 31 | MP1A | X | 173.645 | 4.5 |
| 32 | MP1A | Z | -100.254 | 4.5 |
| 33 | MP1A | Mx | -.087 | 4.5 |
| 34 | MP4A | X | 173.645 | .5 |
| 35 | MP4A | Z | -100.254 | .5 |
| 36 | MP4A | Mx | -.087 | .5 |
| 37 | MP4A | X | 173.645 | 4.5 |
| 38 | MP4A | Z | -100.254 | 4.5 |
| 39 | MP4A | Mx | -.087 | 4.5 |
| 40 | M13 | X | 131.275 | 1 |
| 41 | M13 | Z | -75.792 | 1 |
| 42 | M13 | Mx | -.066 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | 41.778 | 1 |
| 2 | MP3A | Z | 0 | 1 |
| 3 | MP3A | Mx | -.021 | 1 |
| 4 | MP3A | X | 41.778 | 4 |
| 5 | MP3A | Z | 0 | 4 |
| 6 | MP3A | Mx | -.021 | 4 |
| 7 | MP2A | X | 14.663 | .75 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 8 | MP2A | Z | 0 | .75 |
| 9 | MP2A | Mx | -.005 | .75 |
| 10 | MP2A | X | 56.762 | 2.75 |
| 11 | MP2A | Z | 0 | 2.75 |
| 12 | MP2A | Mx | .028 | 2.75 |
| 13 | MP1A | X | 51.654 | 2.75 |
| 14 | MP1A | Z | 0 | 2.75 |
| 15 | MP1A | Mx | .026 | 2.75 |
| 16 | MP2A | X | 135.851 | .5 |
| 17 | MP2A | Z | 0 | .5 |
| 18 | MP2A | Mx | -.068 | .5 |
| 19 | MP2A | X | 135.851 | 4.5 |
| 20 | MP2A | Z | 0 | 4.5 |
| 21 | MP2A | Mx | -.068 | 4.5 |
| 22 | MP2A | X | 135.851 | .5 |
| 23 | MP2A | Z | 0 | .5 |
| 24 | MP2A | Mx | -.068 | .5 |
| 25 | MP2A | X | 135.851 | 4.5 |
| 26 | MP2A | Z | 0 | 4.5 |
| 27 | MP2A | Mx | -.068 | 4.5 |
| 28 | MP1A | X | 194.689 | .5 |
| 29 | MP1A | Z | 0 | .5 |
| 30 | MP1A | Mx | -.097 | .5 |
| 31 | MP1A | X | 194.689 | 4.5 |
| 32 | MP1A | Z | 0 | 4.5 |
| 33 | MP1A | Mx | -.097 | 4.5 |
| 34 | MP4A | X | 194.689 | .5 |
| 35 | MP4A | Z | 0 | .5 |
| 36 | MP4A | Mx | -.097 | .5 |
| 37 | MP4A | X | 194.689 | 4.5 |
| 38 | MP4A | Z | 0 | 4.5 |
| 39 | MP4A | Mx | -.097 | 4.5 |
| 40 | M13 | X | 140.657 | 1 |
| 41 | M13 | Z | 0 | 1 |
| 42 | M13 | Mx | -.07 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | 50.24 | 1 |
| 2 | MP3A | Z | 29.006 | 1 |
| 3 | MP3A | Mx | -.025 | 1 |
| 4 | MP3A | X | 50.24 | 4 |
| 5 | MP3A | Z | 29.006 | 4 |
| 6 | MP3A | Mx | -.025 | 4 |
| 7 | MP2A | X | 14.415 | .75 |
| 8 | MP2A | Z | 8.323 | .75 |
| 9 | MP2A | Mx | -.001 | .75 |
| 10 | MP2A | X | 55.253 | 2.75 |
| 11 | MP2A | Z | 31.9 | 2.75 |
| 12 | MP2A | Mx | .028 | 2.75 |
| 13 | MP1A | X | 51.935 | 2.75 |
| 14 | MP1A | Z | 29.985 | 2.75 |
| 15 | MP1A | Mx | .026 | 2.75 |
| 16 | MP2A | X | 133.02 | .5 |
| 17 | MP2A | Z | 76.799 | .5 |
| 18 | MP2A | Mx | -.009 | .5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 19 | MP2A | X | 133.02 | 4.5 |
| 20 | MP2A | Z | 76.799 | 4.5 |
| 21 | MP2A | Mx | -.009 | 4.5 |
| 22 | MP2A | X | 133.02 | .5 |
| 23 | MP2A | Z | 76.799 | .5 |
| 24 | MP2A | Mx | -.124 | .5 |
| 25 | MP2A | X | 133.02 | 4.5 |
| 26 | MP2A | Z | 76.799 | 4.5 |
| 27 | MP2A | Mx | -.124 | 4.5 |
| 28 | MP1A | X | 173.645 | .5 |
| 29 | MP1A | Z | 100.254 | .5 |
| 30 | MP1A | Mx | -.087 | .5 |
| 31 | MP1A | X | 173.645 | 4.5 |
| 32 | MP1A | Z | 100.254 | 4.5 |
| 33 | MP1A | Mx | -.087 | 4.5 |
| 34 | MP4A | X | 173.645 | .5 |
| 35 | MP4A | Z | 100.254 | .5 |
| 36 | MP4A | Mx | -.087 | .5 |
| 37 | MP4A | X | 173.645 | 4.5 |
| 38 | MP4A | Z | 100.254 | 4.5 |
| 39 | MP4A | Mx | -.087 | 4.5 |
| 40 | M13 | X | 131.275 | 1 |
| 41 | M13 | Z | 75.792 | 1 |
| 42 | M13 | Mx | -.066 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | 45.24 | 1 |
| 2 | MP3A | Z | 78.357 | 1 |
| 3 | MP3A | Mx | -.023 | 1 |
| 4 | MP3A | X | 45.24 | 4 |
| 5 | MP3A | Z | 78.357 | 4 |
| 6 | MP3A | Mx | -.023 | 4 |
| 7 | MP2A | X | 8.098 | .75 |
| 8 | MP2A | Z | 14.026 | .75 |
| 9 | MP2A | Mx | .003 | .75 |
| 10 | MP2A | X | 38.939 | 2.75 |
| 11 | MP2A | Z | 67.444 | 2.75 |
| 12 | MP2A | Mx | .019 | 2.75 |
| 13 | MP1A | X | 38.3 | 2.75 |
| 14 | MP1A | Z | 66.338 | 2.75 |
| 15 | MP1A | Mx | .019 | 2.75 |
| 16 | MP2A | X | 94.547 | .5 |
| 17 | MP2A | Z | 163.76 | .5 |
| 18 | MP2A | Mx | .076 | .5 |
| 19 | MP2A | X | 94.547 | 4.5 |
| 20 | MP2A | Z | 163.76 | 4.5 |
| 21 | MP2A | Mx | .076 | 4.5 |
| 22 | MP2A | X | 94.547 | .5 |
| 23 | MP2A | Z | 163.76 | .5 |
| 24 | MP2A | Mx | -.17 | .5 |
| 25 | MP2A | X | 94.547 | 4.5 |
| 26 | MP2A | Z | 163.76 | 4.5 |
| 27 | MP2A | Mx | -.17 | 4.5 |
| 28 | MP1A | X | 106.074 | .5 |
| 29 | MP1A | Z | 183.725 | .5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 30 | MP1A | Mx | -.053 | .5 |
| 31 | MP1A | X | 106.074 | 4.5 |
| 32 | MP1A | Z | 183.725 | 4.5 |
| 33 | MP1A | Mx | -.053 | 4.5 |
| 34 | MP4A | X | 106.074 | .5 |
| 35 | MP4A | Z | 183.725 | .5 |
| 36 | MP4A | Mx | -.053 | .5 |
| 37 | MP4A | X | 106.074 | 4.5 |
| 38 | MP4A | Z | 183.725 | 4.5 |
| 39 | MP4A | Mx | -.053 | 4.5 |
| 40 | M13 | X | 86.719 | 1 |
| 41 | M13 | Z | 150.201 | 1 |
| 42 | M13 | Mx | -.043 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | 0 | 1 |
| 2 | MP3A | Z | 106.713 | 1 |
| 3 | MP3A | Mx | 0 | 1 |
| 4 | MP3A | X | 0 | 4 |
| 5 | MP3A | Z | 106.713 | 4 |
| 6 | MP3A | Mx | 0 | 4 |
| 7 | MP2A | X | 0 | .75 |
| 8 | MP2A | Z | 13.764 | .75 |
| 9 | MP2A | Mx | .005 | .75 |
| 10 | MP2A | X | 0 | 2.75 |
| 11 | MP2A | Z | 84.916 | 2.75 |
| 12 | MP2A | Mx | 0 | 2.75 |
| 13 | MP1A | X | 0 | 2.75 |
| 14 | MP1A | Z | 84.916 | 2.75 |
| 15 | MP1A | Mx | 0 | 2.75 |
| 16 | MP2A | X | 0 | .5 |
| 17 | MP2A | Z | 206.842 | .5 |
| 18 | MP2A | Mx | .155 | .5 |
| 19 | MP2A | X | 0 | 4.5 |
| 20 | MP2A | Z | 206.842 | 4.5 |
| 21 | MP2A | Mx | .155 | 4.5 |
| 22 | MP2A | X | 0 | .5 |
| 23 | MP2A | Z | 206.842 | .5 |
| 24 | MP2A | Mx | -.155 | .5 |
| 25 | MP2A | X | 0 | 4.5 |
| 26 | MP2A | Z | 206.842 | 4.5 |
| 27 | MP2A | Mx | -.155 | 4.5 |
| 28 | MP1A | X | 0 | .5 |
| 29 | MP1A | Z | 217.967 | .5 |
| 30 | MP1A | Mx | 0 | .5 |
| 31 | MP1A | X | 0 | 4.5 |
| 32 | MP1A | Z | 217.967 | 4.5 |
| 33 | MP1A | Mx | 0 | 4.5 |
| 34 | MP4A | X | 0 | .5 |
| 35 | MP4A | Z | 217.967 | .5 |
| 36 | MP4A | Mx | 0 | .5 |
| 37 | MP4A | X | 0 | 4.5 |
| 38 | MP4A | Z | 217.967 | 4.5 |
| 39 | MP4A | Mx | 0 | 4.5 |
| 40 | M13 | X | 0 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 41 | M13 | Z | 184.364 | 1 |
| 42 | M13 | Mx | 0 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | -45.24 | 1 |
| 2 | MP3A | Z | 78.357 | 1 |
| 3 | MP3A | Mx | .023 | 1 |
| 4 | MP3A | X | -45.24 | 4 |
| 5 | MP3A | Z | 78.357 | 4 |
| 6 | MP3A | Mx | .023 | 4 |
| 7 | MP2A | X | -5.891 | .75 |
| 8 | MP2A | Z | 10.203 | .75 |
| 9 | MP2A | Mx | .006 | .75 |
| 10 | MP2A | X | -38.939 | 2.75 |
| 11 | MP2A | Z | 67.444 | 2.75 |
| 12 | MP2A | Mx | -.019 | 2.75 |
| 13 | MP1A | X | -38.3 | 2.75 |
| 14 | MP1A | Z | 66.338 | 2.75 |
| 15 | MP1A | Mx | -.019 | 2.75 |
| 16 | MP2A | X | -94.547 | .5 |
| 17 | MP2A | Z | 163.76 | .5 |
| 18 | MP2A | Mx | .17 | .5 |
| 19 | MP2A | X | -94.547 | 4.5 |
| 20 | MP2A | Z | 163.76 | 4.5 |
| 21 | MP2A | Mx | .17 | 4.5 |
| 22 | MP2A | X | -94.547 | .5 |
| 23 | MP2A | Z | 163.76 | .5 |
| 24 | MP2A | Mx | -.076 | .5 |
| 25 | MP2A | X | -94.547 | 4.5 |
| 26 | MP2A | Z | 163.76 | 4.5 |
| 27 | MP2A | Mx | -.076 | 4.5 |
| 28 | MP1A | X | -106.074 | .5 |
| 29 | MP1A | Z | 183.725 | .5 |
| 30 | MP1A | Mx | .053 | .5 |
| 31 | MP1A | X | -106.074 | 4.5 |
| 32 | MP1A | Z | 183.725 | 4.5 |
| 33 | MP1A | Mx | .053 | 4.5 |
| 34 | MP4A | X | -106.074 | .5 |
| 35 | MP4A | Z | 183.725 | .5 |
| 36 | MP4A | Mx | .053 | .5 |
| 37 | MP4A | X | -106.074 | 4.5 |
| 38 | MP4A | Z | 183.725 | 4.5 |
| 39 | MP4A | Mx | .053 | 4.5 |
| 40 | M13 | X | -86.719 | 1 |
| 41 | M13 | Z | 150.201 | 1 |
| 42 | M13 | Mx | .043 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | -50.24 | 1 |
| 2 | MP3A | Z | 29.006 | 1 |
| 3 | MP3A | Mx | .025 | 1 |
| 4 | MP3A | X | -50.24 | 4 |
| 5 | MP3A | Z | 29.006 | 4 |
| 6 | MP3A | Mx | .025 | 4 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 7 | MP2A | X | -10.592 | .75 |
| 8 | MP2A | Z | 6.115 | .75 |
| 9 | MP2A | Mx | .006 | .75 |
| 10 | MP2A | X | -55.253 | 2.75 |
| 11 | MP2A | Z | 31.9 | 2.75 |
| 12 | MP2A | Mx | -.028 | 2.75 |
| 13 | MP1A | X | -51.935 | 2.75 |
| 14 | MP1A | Z | 29.985 | 2.75 |
| 15 | MP1A | Mx | -.026 | 2.75 |
| 16 | MP2A | X | -133.02 | .5 |
| 17 | MP2A | Z | 76.799 | .5 |
| 18 | MP2A | Mx | .124 | .5 |
| 19 | MP2A | X | -133.02 | 4.5 |
| 20 | MP2A | Z | 76.799 | 4.5 |
| 21 | MP2A | Mx | .124 | 4.5 |
| 22 | MP2A | X | -133.02 | .5 |
| 23 | MP2A | Z | 76.799 | .5 |
| 24 | MP2A | Mx | .009 | .5 |
| 25 | MP2A | X | -133.02 | 4.5 |
| 26 | MP2A | Z | 76.799 | 4.5 |
| 27 | MP2A | Mx | .009 | 4.5 |
| 28 | MP1A | X | -173.645 | .5 |
| 29 | MP1A | Z | 100.254 | .5 |
| 30 | MP1A | Mx | .087 | .5 |
| 31 | MP1A | X | -173.645 | 4.5 |
| 32 | MP1A | Z | 100.254 | 4.5 |
| 33 | MP1A | Mx | .087 | 4.5 |
| 34 | MP4A | X | -173.645 | .5 |
| 35 | MP4A | Z | 100.254 | .5 |
| 36 | MP4A | Mx | .087 | .5 |
| 37 | MP4A | X | -173.645 | 4.5 |
| 38 | MP4A | Z | 100.254 | 4.5 |
| 39 | MP4A | Mx | .087 | 4.5 |
| 40 | M13 | X | -131.275 | 1 |
| 41 | M13 | Z | 75.792 | 1 |
| 42 | M13 | Mx | .066 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | -41.778 | 1 |
| 2 | MP3A | Z | 0 | 1 |
| 3 | MP3A | Mx | .021 | 1 |
| 4 | MP3A | X | -41.778 | 4 |
| 5 | MP3A | Z | 0 | 4 |
| 6 | MP3A | Mx | .021 | 4 |
| 7 | MP2A | X | -14.663 | .75 |
| 8 | MP2A | Z | 0 | .75 |
| 9 | MP2A | Mx | .005 | .75 |
| 10 | MP2A | X | -56.762 | 2.75 |
| 11 | MP2A | Z | 0 | 2.75 |
| 12 | MP2A | Mx | -.028 | 2.75 |
| 13 | MP1A | X | -51.654 | 2.75 |
| 14 | MP1A | Z | 0 | 2.75 |
| 15 | MP1A | Mx | -.026 | 2.75 |
| 16 | MP2A | X | -135.851 | .5 |
| 17 | MP2A | Z | 0 | .5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 18 | MP2A | Mx | .068 | .5 |
| 19 | MP2A | X | -135.851 | 4.5 |
| 20 | MP2A | Z | 0 | 4.5 |
| 21 | MP2A | Mx | .068 | 4.5 |
| 22 | MP2A | X | -135.851 | .5 |
| 23 | MP2A | Z | 0 | .5 |
| 24 | MP2A | Mx | .068 | .5 |
| 25 | MP2A | X | -135.851 | 4.5 |
| 26 | MP2A | Z | 0 | 4.5 |
| 27 | MP2A | Mx | .068 | 4.5 |
| 28 | MP1A | X | -194.689 | .5 |
| 29 | MP1A | Z | 0 | .5 |
| 30 | MP1A | Mx | .097 | .5 |
| 31 | MP1A | X | -194.689 | 4.5 |
| 32 | MP1A | Z | 0 | 4.5 |
| 33 | MP1A | Mx | .097 | 4.5 |
| 34 | MP4A | X | -194.689 | .5 |
| 35 | MP4A | Z | 0 | .5 |
| 36 | MP4A | Mx | .097 | .5 |
| 37 | MP4A | X | -194.689 | 4.5 |
| 38 | MP4A | Z | 0 | 4.5 |
| 39 | MP4A | Mx | .097 | 4.5 |
| 40 | M13 | X | -140.657 | 1 |
| 41 | M13 | Z | 0 | 1 |
| 42 | M13 | Mx | .07 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | -50.24 | 1 |
| 2 | MP3A | Z | -29.006 | 1 |
| 3 | MP3A | Mx | .025 | 1 |
| 4 | MP3A | X | -50.24 | 4 |
| 5 | MP3A | Z | -29.006 | 4 |
| 6 | MP3A | Mx | .025 | 4 |
| 7 | MP2A | X | -14.415 | .75 |
| 8 | MP2A | Z | -8.323 | .75 |
| 9 | MP2A | Mx | .001 | .75 |
| 10 | MP2A | X | -55.253 | 2.75 |
| 11 | MP2A | Z | -31.9 | 2.75 |
| 12 | MP2A | Mx | -.028 | 2.75 |
| 13 | MP1A | X | -51.935 | 2.75 |
| 14 | MP1A | Z | -29.985 | 2.75 |
| 15 | MP1A | Mx | -.026 | 2.75 |
| 16 | MP2A | X | -133.02 | .5 |
| 17 | MP2A | Z | -76.799 | .5 |
| 18 | MP2A | Mx | .009 | .5 |
| 19 | MP2A | X | -133.02 | 4.5 |
| 20 | MP2A | Z | -76.799 | 4.5 |
| 21 | MP2A | Mx | .009 | 4.5 |
| 22 | MP2A | X | -133.02 | .5 |
| 23 | MP2A | Z | -76.799 | .5 |
| 24 | MP2A | Mx | .124 | .5 |
| 25 | MP2A | X | -133.02 | 4.5 |
| 26 | MP2A | Z | -76.799 | 4.5 |
| 27 | MP2A | Mx | .124 | 4.5 |
| 28 | MP1A | X | -173.645 | .5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 29 | MP1A | Z | -100.254 | .5 |
| 30 | MP1A | Mx | .087 | .5 |
| 31 | MP1A | X | -173.645 | 4.5 |
| 32 | MP1A | Z | -100.254 | 4.5 |
| 33 | MP1A | Mx | .087 | 4.5 |
| 34 | MP4A | X | -173.645 | .5 |
| 35 | MP4A | Z | -100.254 | .5 |
| 36 | MP4A | Mx | .087 | .5 |
| 37 | MP4A | X | -173.645 | 4.5 |
| 38 | MP4A | Z | -100.254 | 4.5 |
| 39 | MP4A | Mx | .087 | 4.5 |
| 40 | M13 | X | -131.275 | 1 |
| 41 | M13 | Z | -75.792 | 1 |
| 42 | M13 | Mx | .066 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | -45.24 | 1 |
| 2 | MP3A | Z | -78.357 | 1 |
| 3 | MP3A | Mx | .023 | 1 |
| 4 | MP3A | X | -45.24 | 4 |
| 5 | MP3A | Z | -78.357 | 4 |
| 6 | MP3A | Mx | .023 | 4 |
| 7 | MP2A | X | -8.098 | .75 |
| 8 | MP2A | Z | -14.026 | .75 |
| 9 | MP2A | Mx | -.003 | .75 |
| 10 | MP2A | X | -38.939 | 2.75 |
| 11 | MP2A | Z | -67.444 | 2.75 |
| 12 | MP2A | Mx | -.019 | 2.75 |
| 13 | MP1A | X | -38.3 | 2.75 |
| 14 | MP1A | Z | -66.338 | 2.75 |
| 15 | MP1A | Mx | -.019 | 2.75 |
| 16 | MP2A | X | -94.547 | .5 |
| 17 | MP2A | Z | -163.76 | .5 |
| 18 | MP2A | Mx | -.076 | .5 |
| 19 | MP2A | X | -94.547 | 4.5 |
| 20 | MP2A | Z | -163.76 | 4.5 |
| 21 | MP2A | Mx | -.076 | 4.5 |
| 22 | MP2A | X | -94.547 | .5 |
| 23 | MP2A | Z | -163.76 | .5 |
| 24 | MP2A | Mx | .17 | .5 |
| 25 | MP2A | X | -94.547 | 4.5 |
| 26 | MP2A | Z | -163.76 | 4.5 |
| 27 | MP2A | Mx | .17 | 4.5 |
| 28 | MP1A | X | -106.074 | .5 |
| 29 | MP1A | Z | -183.725 | .5 |
| 30 | MP1A | Mx | .053 | .5 |
| 31 | MP1A | X | -106.074 | 4.5 |
| 32 | MP1A | Z | -183.725 | 4.5 |
| 33 | MP1A | Mx | .053 | 4.5 |
| 34 | MP4A | X | -106.074 | .5 |
| 35 | MP4A | Z | -183.725 | .5 |
| 36 | MP4A | Mx | .053 | .5 |
| 37 | MP4A | X | -106.074 | 4.5 |
| 38 | MP4A | Z | -183.725 | 4.5 |
| 39 | MP4A | Mx | .053 | 4.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 40 | M13 | X | -86.719 | 1 |
| 41 | M13 | Z | -150.201 | 1 |
| 42 | M13 | Mx | .043 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | 0 | 1 |
| 2 | MP3A | Z | -19.278 | 1 |
| 3 | MP3A | Mx | 0 | 1 |
| 4 | MP3A | X | 0 | 4 |
| 5 | MP3A | Z | -19.278 | 4 |
| 6 | MP3A | Mx | 0 | 4 |
| 7 | MP2A | X | 0 | .75 |
| 8 | MP2A | Z | -3.362 | .75 |
| 9 | MP2A | Mx | -.001 | .75 |
| 10 | MP2A | X | 0 | 2.75 |
| 11 | MP2A | Z | -16.244 | 2.75 |
| 12 | MP2A | Mx | 0 | 2.75 |
| 13 | MP1A | X | 0 | 2.75 |
| 14 | MP1A | Z | -16.244 | 2.75 |
| 15 | MP1A | Mx | 0 | 2.75 |
| 16 | MP2A | X | 0 | .5 |
| 17 | MP2A | Z | -36.25 | .5 |
| 18 | MP2A | Mx | -.027 | .5 |
| 19 | MP2A | X | 0 | 4.5 |
| 20 | MP2A | Z | -36.25 | 4.5 |
| 21 | MP2A | Mx | -.027 | 4.5 |
| 22 | MP2A | X | 0 | .5 |
| 23 | MP2A | Z | -36.25 | .5 |
| 24 | MP2A | Mx | .027 | .5 |
| 25 | MP2A | X | 0 | 4.5 |
| 26 | MP2A | Z | -36.25 | 4.5 |
| 27 | MP2A | Mx | .027 | 4.5 |
| 28 | MP1A | X | 0 | .5 |
| 29 | MP1A | Z | -38.035 | .5 |
| 30 | MP1A | Mx | 0 | .5 |
| 31 | MP1A | X | 0 | 4.5 |
| 32 | MP1A | Z | -38.035 | 4.5 |
| 33 | MP1A | Mx | 0 | 4.5 |
| 34 | MP4A | X | 0 | .5 |
| 35 | MP4A | Z | -38.035 | .5 |
| 36 | MP4A | Mx | 0 | .5 |
| 37 | MP4A | X | 0 | 4.5 |
| 38 | MP4A | Z | -38.035 | 4.5 |
| 39 | MP4A | Mx | 0 | 4.5 |
| 40 | M13 | X | 0 | 1 |
| 41 | M13 | Z | -33.39 | 1 |
| 42 | M13 | Mx | 0 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | 8.255 | 1 |
| 2 | MP3A | Z | -14.299 | 1 |
| 3 | MP3A | Mx | -.004 | 1 |
| 4 | MP3A | X | 8.255 | 4 |
| 5 | MP3A | Z | -14.299 | 4 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 6 | MP3A | Mx | -.004 | 4 |
| 7 | MP2A | X | 1.492 | .75 |
| 8 | MP2A | Z | -2.585 | .75 |
| 9 | MP2A | Mx | -.001 | .75 |
| 10 | MP2A | X | 7.503 | 2.75 |
| 11 | MP2A | Z | -12.996 | 2.75 |
| 12 | MP2A | Mx | .004 | 2.75 |
| 13 | MP1A | X | 7.392 | 2.75 |
| 14 | MP1A | Z | -12.804 | 2.75 |
| 15 | MP1A | Mx | .004 | 2.75 |
| 16 | MP2A | X | 16.684 | .5 |
| 17 | MP2A | Z | -28.898 | .5 |
| 18 | MP2A | Mx | -.03 | .5 |
| 19 | MP2A | X | 16.684 | 4.5 |
| 20 | MP2A | Z | -28.898 | 4.5 |
| 21 | MP2A | Mx | -.03 | 4.5 |
| 22 | MP2A | X | 16.684 | .5 |
| 23 | MP2A | Z | -28.898 | .5 |
| 24 | MP2A | Mx | .013 | .5 |
| 25 | MP2A | X | 16.684 | 4.5 |
| 26 | MP2A | Z | -28.898 | 4.5 |
| 27 | MP2A | Mx | .013 | 4.5 |
| 28 | MP1A | X | 18.54 | .5 |
| 29 | MP1A | Z | -32.113 | .5 |
| 30 | MP1A | Mx | -.009 | .5 |
| 31 | MP1A | X | 18.54 | 4.5 |
| 32 | MP1A | Z | -32.113 | 4.5 |
| 33 | MP1A | Mx | -.009 | 4.5 |
| 34 | MP4A | X | 18.54 | .5 |
| 35 | MP4A | Z | -32.113 | .5 |
| 36 | MP4A | Mx | -.009 | .5 |
| 37 | MP4A | X | 18.54 | 4.5 |
| 38 | MP4A | Z | -32.113 | 4.5 |
| 39 | MP4A | Mx | -.009 | 4.5 |
| 40 | M13 | X | 15.785 | 1 |
| 41 | M13 | Z | -27.34 | 1 |
| 42 | M13 | Mx | -.008 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | 9.505 | 1 |
| 2 | MP3A | Z | -5.488 | 1 |
| 3 | MP3A | Mx | -.005 | 1 |
| 4 | MP3A | X | 9.505 | 4 |
| 5 | MP3A | Z | -5.488 | 4 |
| 6 | MP3A | Mx | -.005 | 4 |
| 7 | MP2A | X | 2.659 | .75 |
| 8 | MP2A | Z | -1.535 | .75 |
| 9 | MP2A | Mx | -.001 | .75 |
| 10 | MP2A | X | 10.854 | 2.75 |
| 11 | MP2A | Z | -6.267 | 2.75 |
| 12 | MP2A | Mx | .005 | 2.75 |
| 13 | MP1A | X | 10.276 | 2.75 |
| 14 | MP1A | Z | -5.933 | 2.75 |
| 15 | MP1A | Mx | .005 | 2.75 |
| 16 | MP2A | X | 23.907 | .5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 17 | MP2A | Z | -13.803 | .5 |
| 18 | MP2A | Mx | -.022 | .5 |
| 19 | MP2A | X | 23.907 | 4.5 |
| 20 | MP2A | Z | -13.803 | 4.5 |
| 21 | MP2A | Mx | -.022 | 4.5 |
| 22 | MP2A | X | 23.907 | .5 |
| 23 | MP2A | Z | -13.803 | .5 |
| 24 | MP2A | Mx | -.002 | .5 |
| 25 | MP2A | X | 23.907 | 4.5 |
| 26 | MP2A | Z | -13.803 | 4.5 |
| 27 | MP2A | Mx | -.002 | 4.5 |
| 28 | MP1A | X | 30.459 | .5 |
| 29 | MP1A | Z | -17.586 | .5 |
| 30 | MP1A | Mx | -.015 | .5 |
| 31 | MP1A | X | 30.459 | 4.5 |
| 32 | MP1A | Z | -17.586 | 4.5 |
| 33 | MP1A | Mx | -.015 | 4.5 |
| 34 | MP4A | X | 30.459 | .5 |
| 35 | MP4A | Z | -17.586 | .5 |
| 36 | MP4A | Mx | -.015 | .5 |
| 37 | MP4A | X | 30.459 | 4.5 |
| 38 | MP4A | Z | -17.586 | 4.5 |
| 39 | MP4A | Mx | -.015 | 4.5 |
| 40 | M13 | X | 24.186 | 1 |
| 41 | M13 | Z | -13.964 | 1 |
| 42 | M13 | Mx | -.012 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | 8.208 | 1 |
| 2 | MP3A | Z | 0 | 1 |
| 3 | MP3A | Mx | -.004 | 1 |
| 4 | MP3A | X | 8.208 | 4 |
| 5 | MP3A | Z | 0 | 4 |
| 6 | MP3A | Mx | -.004 | 4 |
| 7 | MP2A | X | 3.533 | .75 |
| 8 | MP2A | Z | 0 | .75 |
| 9 | MP2A | Mx | -.001 | .75 |
| 10 | MP2A | X | 11.297 | 2.75 |
| 11 | MP2A | Z | 0 | 2.75 |
| 12 | MP2A | Mx | .006 | 2.75 |
| 13 | MP1A | X | 10.407 | 2.75 |
| 14 | MP1A | Z | 0 | 2.75 |
| 15 | MP1A | Mx | .005 | 2.75 |
| 16 | MP2A | X | 24.724 | .5 |
| 17 | MP2A | Z | 0 | .5 |
| 18 | MP2A | Mx | -.012 | .5 |
| 19 | MP2A | X | 24.724 | 4.5 |
| 20 | MP2A | Z | 0 | 4.5 |
| 21 | MP2A | Mx | -.012 | 4.5 |
| 22 | MP2A | X | 24.724 | .5 |
| 23 | MP2A | Z | 0 | .5 |
| 24 | MP2A | Mx | -.012 | .5 |
| 25 | MP2A | X | 24.724 | 4.5 |
| 26 | MP2A | Z | 0 | 4.5 |
| 27 | MP2A | Mx | -.012 | 4.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 28 | MP1A | X | 34.216 | .5 |
| 29 | MP1A | Z | 0 | .5 |
| 30 | MP1A | Mx | -.017 | .5 |
| 31 | MP1A | X | 34.216 | 4.5 |
| 32 | MP1A | Z | 0 | 4.5 |
| 33 | MP1A | Mx | -.017 | 4.5 |
| 34 | MP4A | X | 34.216 | .5 |
| 35 | MP4A | Z | 0 | .5 |
| 36 | MP4A | Mx | -.017 | .5 |
| 37 | MP4A | X | 34.216 | 4.5 |
| 38 | MP4A | Z | 0 | 4.5 |
| 39 | MP4A | Mx | -.017 | 4.5 |
| 40 | M13 | X | 26.108 | 1 |
| 41 | M13 | Z | 0 | 1 |
| 42 | M13 | Mx | -.013 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | 9.505 | 1 |
| 2 | MP3A | Z | 5.488 | 1 |
| 3 | MP3A | Mx | -.005 | 1 |
| 4 | MP3A | X | 9.505 | 4 |
| 5 | MP3A | Z | 5.488 | 4 |
| 6 | MP3A | Mx | -.005 | 4 |
| 7 | MP2A | X | 3.386 | .75 |
| 8 | MP2A | Z | 1.955 | .75 |
| 9 | MP2A | Mx | -.000339 | .75 |
| 10 | MP2A | X | 10.854 | 2.75 |
| 11 | MP2A | Z | 6.267 | 2.75 |
| 12 | MP2A | Mx | .005 | 2.75 |
| 13 | MP1A | X | 10.276 | 2.75 |
| 14 | MP1A | Z | 5.933 | 2.75 |
| 15 | MP1A | Mx | .005 | 2.75 |
| 16 | MP2A | X | 23.907 | .5 |
| 17 | MP2A | Z | 13.803 | .5 |
| 18 | MP2A | Mx | -.002 | .5 |
| 19 | MP2A | X | 23.907 | 4.5 |
| 20 | MP2A | Z | 13.803 | 4.5 |
| 21 | MP2A | Mx | -.002 | 4.5 |
| 22 | MP2A | X | 23.907 | .5 |
| 23 | MP2A | Z | 13.803 | .5 |
| 24 | MP2A | Mx | -.022 | .5 |
| 25 | MP2A | X | 23.907 | 4.5 |
| 26 | MP2A | Z | 13.803 | 4.5 |
| 27 | MP2A | Mx | -.022 | 4.5 |
| 28 | MP1A | X | 30.459 | .5 |
| 29 | MP1A | Z | 17.586 | .5 |
| 30 | MP1A | Mx | -.015 | .5 |
| 31 | MP1A | X | 30.459 | 4.5 |
| 32 | MP1A | Z | 17.586 | 4.5 |
| 33 | MP1A | Mx | -.015 | 4.5 |
| 34 | MP4A | X | 30.459 | .5 |
| 35 | MP4A | Z | 17.586 | .5 |
| 36 | MP4A | Mx | -.015 | .5 |
| 37 | MP4A | X | 30.459 | 4.5 |
| 38 | MP4A | Z | 17.586 | 4.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 39 | MP4A | Mx | -.015 | 4.5 |
| 40 | M13 | X | 24.186 | 1 |
| 41 | M13 | Z | 13.964 | 1 |
| 42 | M13 | Mx | -.012 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | 8.255 | 1 |
| 2 | MP3A | Z | 14.299 | 1 |
| 3 | MP3A | Mx | -.004 | 1 |
| 4 | MP3A | X | 8.255 | 4 |
| 5 | MP3A | Z | 14.299 | 4 |
| 6 | MP3A | Mx | -.004 | 4 |
| 7 | MP2A | X | 1.912 | .75 |
| 8 | MP2A | Z | 3.312 | .75 |
| 9 | MP2A | Mx | .000654 | .75 |
| 10 | MP2A | X | 7.503 | 2.75 |
| 11 | MP2A | Z | 12.996 | 2.75 |
| 12 | MP2A | Mx | .004 | 2.75 |
| 13 | MP1A | X | 7.392 | 2.75 |
| 14 | MP1A | Z | 12.804 | 2.75 |
| 15 | MP1A | Mx | .004 | 2.75 |
| 16 | MP2A | X | 16.684 | .5 |
| 17 | MP2A | Z | 28.898 | .5 |
| 18 | MP2A | Mx | .013 | .5 |
| 19 | MP2A | X | 16.684 | 4.5 |
| 20 | MP2A | Z | 28.898 | 4.5 |
| 21 | MP2A | Mx | .013 | 4.5 |
| 22 | MP2A | X | 16.684 | .5 |
| 23 | MP2A | Z | 28.898 | .5 |
| 24 | MP2A | Mx | -.03 | .5 |
| 25 | MP2A | X | 16.684 | 4.5 |
| 26 | MP2A | Z | 28.898 | 4.5 |
| 27 | MP2A | Mx | -.03 | 4.5 |
| 28 | MP1A | X | 18.54 | .5 |
| 29 | MP1A | Z | 32.113 | .5 |
| 30 | MP1A | Mx | -.009 | .5 |
| 31 | MP1A | X | 18.54 | 4.5 |
| 32 | MP1A | Z | 32.113 | 4.5 |
| 33 | MP1A | Mx | -.009 | 4.5 |
| 34 | MP4A | X | 18.54 | .5 |
| 35 | MP4A | Z | 32.113 | .5 |
| 36 | MP4A | Mx | -.009 | .5 |
| 37 | MP4A | X | 18.54 | 4.5 |
| 38 | MP4A | Z | 32.113 | 4.5 |
| 39 | MP4A | Mx | -.009 | 4.5 |
| 40 | M13 | X | 15.785 | 1 |
| 41 | M13 | Z | 27.34 | 1 |
| 42 | M13 | Mx | -.008 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | 0 | 1 |
| 2 | MP3A | Z | 19.278 | 1 |
| 3 | MP3A | Mx | 0 | 1 |
| 4 | MP3A | X | 0 | 4 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 5 | MP3A | Z | 19.278 | 4 |
| 6 | MP3A | Mx | 0 | 4 |
| 7 | MP2A | X | 0 | .75 |
| 8 | MP2A | Z | 3.362 | .75 |
| 9 | MP2A | Mx | .001 | .75 |
| 10 | MP2A | X | 0 | 2.75 |
| 11 | MP2A | Z | 16.244 | 2.75 |
| 12 | MP2A | Mx | 0 | 2.75 |
| 13 | MP1A | X | 0 | 2.75 |
| 14 | MP1A | Z | 16.244 | 2.75 |
| 15 | MP1A | Mx | 0 | 2.75 |
| 16 | MP2A | X | 0 | .5 |
| 17 | MP2A | Z | 36.25 | .5 |
| 18 | MP2A | Mx | .027 | .5 |
| 19 | MP2A | X | 0 | 4.5 |
| 20 | MP2A | Z | 36.25 | 4.5 |
| 21 | MP2A | Mx | .027 | 4.5 |
| 22 | MP2A | X | 0 | .5 |
| 23 | MP2A | Z | 36.25 | .5 |
| 24 | MP2A | Mx | -.027 | .5 |
| 25 | MP2A | X | 0 | 4.5 |
| 26 | MP2A | Z | 36.25 | 4.5 |
| 27 | MP2A | Mx | -.027 | 4.5 |
| 28 | MP1A | X | 0 | .5 |
| 29 | MP1A | Z | 38.035 | .5 |
| 30 | MP1A | Mx | 0 | .5 |
| 31 | MP1A | X | 0 | 4.5 |
| 32 | MP1A | Z | 38.035 | 4.5 |
| 33 | MP1A | Mx | 0 | 4.5 |
| 34 | MP4A | X | 0 | .5 |
| 35 | MP4A | Z | 38.035 | .5 |
| 36 | MP4A | Mx | 0 | .5 |
| 37 | MP4A | X | 0 | 4.5 |
| 38 | MP4A | Z | 38.035 | 4.5 |
| 39 | MP4A | Mx | 0 | 4.5 |
| 40 | M13 | X | 0 | 1 |
| 41 | M13 | Z | 33.39 | 1 |
| 42 | M13 | Mx | 0 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | -8.255 | 1 |
| 2 | MP3A | Z | 14.299 | 1 |
| 3 | MP3A | Mx | .004 | 1 |
| 4 | MP3A | X | -8.255 | 4 |
| 5 | MP3A | Z | 14.299 | 4 |
| 6 | MP3A | Mx | .004 | 4 |
| 7 | MP2A | X | -1.492 | .75 |
| 8 | MP2A | Z | 2.585 | .75 |
| 9 | MP2A | Mx | .001 | .75 |
| 10 | MP2A | X | -7.503 | 2.75 |
| 11 | MP2A | Z | 12.996 | 2.75 |
| 12 | MP2A | Mx | -.004 | 2.75 |
| 13 | MP1A | X | -7.392 | 2.75 |
| 14 | MP1A | Z | 12.804 | 2.75 |
| 15 | MP1A | Mx | -.004 | 2.75 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 16 | MP2A | X | -16.684 | .5 |
| 17 | MP2A | Z | 28.898 | .5 |
| 18 | MP2A | Mx | .03 | .5 |
| 19 | MP2A | X | -16.684 | 4.5 |
| 20 | MP2A | Z | 28.898 | 4.5 |
| 21 | MP2A | Mx | .03 | 4.5 |
| 22 | MP2A | X | -16.684 | .5 |
| 23 | MP2A | Z | 28.898 | .5 |
| 24 | MP2A | Mx | -.013 | .5 |
| 25 | MP2A | X | -16.684 | 4.5 |
| 26 | MP2A | Z | 28.898 | 4.5 |
| 27 | MP2A | Mx | -.013 | 4.5 |
| 28 | MP1A | X | -18.54 | .5 |
| 29 | MP1A | Z | 32.113 | .5 |
| 30 | MP1A | Mx | .009 | .5 |
| 31 | MP1A | X | -18.54 | 4.5 |
| 32 | MP1A | Z | 32.113 | 4.5 |
| 33 | MP1A | Mx | .009 | 4.5 |
| 34 | MP4A | X | -18.54 | .5 |
| 35 | MP4A | Z | 32.113 | .5 |
| 36 | MP4A | Mx | .009 | .5 |
| 37 | MP4A | X | -18.54 | 4.5 |
| 38 | MP4A | Z | 32.113 | 4.5 |
| 39 | MP4A | Mx | .009 | 4.5 |
| 40 | M13 | X | -15.785 | 1 |
| 41 | M13 | Z | 27.34 | 1 |
| 42 | M13 | Mx | .008 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | -9.505 | 1 |
| 2 | MP3A | Z | 5.488 | 1 |
| 3 | MP3A | Mx | .005 | 1 |
| 4 | MP3A | X | -9.505 | 4 |
| 5 | MP3A | Z | 5.488 | 4 |
| 6 | MP3A | Mx | .005 | 4 |
| 7 | MP2A | X | -2.659 | .75 |
| 8 | MP2A | Z | 1.535 | .75 |
| 9 | MP2A | Mx | .001 | .75 |
| 10 | MP2A | X | -10.854 | 2.75 |
| 11 | MP2A | Z | 6.267 | 2.75 |
| 12 | MP2A | Mx | -.005 | 2.75 |
| 13 | MP1A | X | -10.276 | 2.75 |
| 14 | MP1A | Z | 5.933 | 2.75 |
| 15 | MP1A | Mx | -.005 | 2.75 |
| 16 | MP2A | X | -23.907 | .5 |
| 17 | MP2A | Z | 13.803 | .5 |
| 18 | MP2A | Mx | .022 | .5 |
| 19 | MP2A | X | -23.907 | 4.5 |
| 20 | MP2A | Z | 13.803 | 4.5 |
| 21 | MP2A | Mx | .022 | 4.5 |
| 22 | MP2A | X | -23.907 | .5 |
| 23 | MP2A | Z | 13.803 | .5 |
| 24 | MP2A | Mx | .002 | .5 |
| 25 | MP2A | X | -23.907 | 4.5 |
| 26 | MP2A | Z | 13.803 | 4.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 27 | MP2A | Mx | .002 | 4.5 |
| 28 | MP1A | X | -30.459 | .5 |
| 29 | MP1A | Z | 17.586 | .5 |
| 30 | MP1A | Mx | .015 | .5 |
| 31 | MP1A | X | -30.459 | 4.5 |
| 32 | MP1A | Z | 17.586 | 4.5 |
| 33 | MP1A | Mx | .015 | 4.5 |
| 34 | MP4A | X | -30.459 | .5 |
| 35 | MP4A | Z | 17.586 | .5 |
| 36 | MP4A | Mx | .015 | .5 |
| 37 | MP4A | X | -30.459 | 4.5 |
| 38 | MP4A | Z | 17.586 | 4.5 |
| 39 | MP4A | Mx | .015 | 4.5 |
| 40 | M13 | X | -24.186 | 1 |
| 41 | M13 | Z | 13.964 | 1 |
| 42 | M13 | Mx | .012 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | -8.208 | 1 |
| 2 | MP3A | Z | 0 | 1 |
| 3 | MP3A | Mx | .004 | 1 |
| 4 | MP3A | X | -8.208 | 4 |
| 5 | MP3A | Z | 0 | 4 |
| 6 | MP3A | Mx | .004 | 4 |
| 7 | MP2A | X | -3.533 | .75 |
| 8 | MP2A | Z | 0 | .75 |
| 9 | MP2A | Mx | .001 | .75 |
| 10 | MP2A | X | -11.297 | 2.75 |
| 11 | MP2A | Z | 0 | 2.75 |
| 12 | MP2A | Mx | -.006 | 2.75 |
| 13 | MP1A | X | -10.407 | 2.75 |
| 14 | MP1A | Z | 0 | 2.75 |
| 15 | MP1A | Mx | -.005 | 2.75 |
| 16 | MP2A | X | -24.724 | .5 |
| 17 | MP2A | Z | 0 | .5 |
| 18 | MP2A | Mx | .012 | .5 |
| 19 | MP2A | X | -24.724 | 4.5 |
| 20 | MP2A | Z | 0 | 4.5 |
| 21 | MP2A | Mx | .012 | 4.5 |
| 22 | MP2A | X | -24.724 | .5 |
| 23 | MP2A | Z | 0 | .5 |
| 24 | MP2A | Mx | .012 | .5 |
| 25 | MP2A | X | -24.724 | 4.5 |
| 26 | MP2A | Z | 0 | 4.5 |
| 27 | MP2A | Mx | .012 | 4.5 |
| 28 | MP1A | X | -34.216 | .5 |
| 29 | MP1A | Z | 0 | .5 |
| 30 | MP1A | Mx | .017 | .5 |
| 31 | MP1A | X | -34.216 | 4.5 |
| 32 | MP1A | Z | 0 | 4.5 |
| 33 | MP1A | Mx | .017 | 4.5 |
| 34 | MP4A | X | -34.216 | .5 |
| 35 | MP4A | Z | 0 | .5 |
| 36 | MP4A | Mx | .017 | .5 |
| 37 | MP4A | X | -34.216 | 4.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 38 | MP4A | Z | 0 | 4.5 |
| 39 | MP4A | Mx | .017 | 4.5 |
| 40 | M13 | X | -26.108 | 1 |
| 41 | M13 | Z | 0 | 1 |
| 42 | M13 | Mx | .013 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | -9.505 | 1 |
| 2 | MP3A | Z | -5.488 | 1 |
| 3 | MP3A | Mx | .005 | 1 |
| 4 | MP3A | X | -9.505 | 4 |
| 5 | MP3A | Z | -5.488 | 4 |
| 6 | MP3A | Mx | .005 | 4 |
| 7 | MP2A | X | -3.386 | .75 |
| 8 | MP2A | Z | -1.955 | .75 |
| 9 | MP2A | Mx | .000339 | .75 |
| 10 | MP2A | X | -10.854 | 2.75 |
| 11 | MP2A | Z | -6.267 | 2.75 |
| 12 | MP2A | Mx | -.005 | 2.75 |
| 13 | MP1A | X | -10.276 | 2.75 |
| 14 | MP1A | Z | -5.933 | 2.75 |
| 15 | MP1A | Mx | -.005 | 2.75 |
| 16 | MP2A | X | -23.907 | .5 |
| 17 | MP2A | Z | -13.803 | .5 |
| 18 | MP2A | Mx | .002 | .5 |
| 19 | MP2A | X | -23.907 | 4.5 |
| 20 | MP2A | Z | -13.803 | 4.5 |
| 21 | MP2A | Mx | .002 | 4.5 |
| 22 | MP2A | X | -23.907 | .5 |
| 23 | MP2A | Z | -13.803 | .5 |
| 24 | MP2A | Mx | .022 | .5 |
| 25 | MP2A | X | -23.907 | 4.5 |
| 26 | MP2A | Z | -13.803 | 4.5 |
| 27 | MP2A | Mx | .022 | 4.5 |
| 28 | MP1A | X | -30.459 | .5 |
| 29 | MP1A | Z | -17.586 | .5 |
| 30 | MP1A | Mx | .015 | .5 |
| 31 | MP1A | X | -30.459 | 4.5 |
| 32 | MP1A | Z | -17.586 | 4.5 |
| 33 | MP1A | Mx | .015 | 4.5 |
| 34 | MP4A | X | -30.459 | .5 |
| 35 | MP4A | Z | -17.586 | .5 |
| 36 | MP4A | Mx | .015 | .5 |
| 37 | MP4A | X | -30.459 | 4.5 |
| 38 | MP4A | Z | -17.586 | 4.5 |
| 39 | MP4A | Mx | .015 | 4.5 |
| 40 | M13 | X | -24.186 | 1 |
| 41 | M13 | Z | -13.964 | 1 |
| 42 | M13 | Mx | .012 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | -8.255 | 1 |
| 2 | MP3A | Z | -14.299 | 1 |
| 3 | MP3A | Mx | .004 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 4 | MP3A | X | -8.255 | 4 |
| 5 | MP3A | Z | -14.299 | 4 |
| 6 | MP3A | Mx | .004 | 4 |
| 7 | MP2A | X | -1.912 | .75 |
| 8 | MP2A | Z | -3.312 | .75 |
| 9 | MP2A | Mx | -.000654 | .75 |
| 10 | MP2A | X | -7.503 | 2.75 |
| 11 | MP2A | Z | -12.996 | 2.75 |
| 12 | MP2A | Mx | -.004 | 2.75 |
| 13 | MP1A | X | -7.392 | 2.75 |
| 14 | MP1A | Z | -12.804 | 2.75 |
| 15 | MP1A | Mx | -.004 | 2.75 |
| 16 | MP2A | X | -16.684 | .5 |
| 17 | MP2A | Z | -28.898 | .5 |
| 18 | MP2A | Mx | -.013 | .5 |
| 19 | MP2A | X | -16.684 | 4.5 |
| 20 | MP2A | Z | -28.898 | 4.5 |
| 21 | MP2A | Mx | -.013 | 4.5 |
| 22 | MP2A | X | -16.684 | .5 |
| 23 | MP2A | Z | -28.898 | .5 |
| 24 | MP2A | Mx | .03 | .5 |
| 25 | MP2A | X | -16.684 | 4.5 |
| 26 | MP2A | Z | -28.898 | 4.5 |
| 27 | MP2A | Mx | .03 | 4.5 |
| 28 | MP1A | X | -18.54 | .5 |
| 29 | MP1A | Z | -32.113 | .5 |
| 30 | MP1A | Mx | .009 | .5 |
| 31 | MP1A | X | -18.54 | 4.5 |
| 32 | MP1A | Z | -32.113 | 4.5 |
| 33 | MP1A | Mx | .009 | 4.5 |
| 34 | MP4A | X | -18.54 | .5 |
| 35 | MP4A | Z | -32.113 | .5 |
| 36 | MP4A | Mx | .009 | .5 |
| 37 | MP4A | X | -18.54 | 4.5 |
| 38 | MP4A | Z | -32.113 | 4.5 |
| 39 | MP4A | Mx | .009 | 4.5 |
| 40 | M13 | X | -15.785 | 1 |
| 41 | M13 | Z | -27.34 | 1 |
| 42 | M13 | Mx | .008 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | 0 | 1 |
| 2 | MP3A | Z | -6.147 | 1 |
| 3 | MP3A | Mx | 0 | 1 |
| 4 | MP3A | X | 0 | 4 |
| 5 | MP3A | Z | -6.147 | 4 |
| 6 | MP3A | Mx | 0 | 4 |
| 7 | MP2A | X | 0 | .75 |
| 8 | MP2A | Z | -.793 | .75 |
| 9 | MP2A | Mx | -.000304 | .75 |
| 10 | MP2A | X | 0 | 2.75 |
| 11 | MP2A | Z | -4.891 | 2.75 |
| 12 | MP2A | Mx | 0 | 2.75 |
| 13 | MP1A | X | 0 | 2.75 |
| 14 | MP1A | Z | -4.891 | 2.75 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 15 | MP1A | Mx | 0 | 2.75 |
| 16 | MP2A | X | 0 | .5 |
| 17 | MP2A | Z | -11.914 | .5 |
| 18 | MP2A | Mx | -.009 | .5 |
| 19 | MP2A | X | 0 | 4.5 |
| 20 | MP2A | Z | -11.914 | 4.5 |
| 21 | MP2A | Mx | -.009 | 4.5 |
| 22 | MP2A | X | 0 | .5 |
| 23 | MP2A | Z | -11.914 | .5 |
| 24 | MP2A | Mx | .009 | .5 |
| 25 | MP2A | X | 0 | 4.5 |
| 26 | MP2A | Z | -11.914 | 4.5 |
| 27 | MP2A | Mx | .009 | 4.5 |
| 28 | MP1A | X | 0 | .5 |
| 29 | MP1A | Z | -12.555 | .5 |
| 30 | MP1A | Mx | 0 | .5 |
| 31 | MP1A | X | 0 | 4.5 |
| 32 | MP1A | Z | -12.555 | 4.5 |
| 33 | MP1A | Mx | 0 | 4.5 |
| 34 | MP4A | X | 0 | .5 |
| 35 | MP4A | Z | -12.555 | .5 |
| 36 | MP4A | Mx | 0 | .5 |
| 37 | MP4A | X | 0 | 4.5 |
| 38 | MP4A | Z | -12.555 | 4.5 |
| 39 | MP4A | Mx | 0 | 4.5 |
| 40 | M13 | X | 0 | 1 |
| 41 | M13 | Z | -10.619 | 1 |
| 42 | M13 | Mx | 0 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | 2.606 | 1 |
| 2 | MP3A | Z | -4.513 | 1 |
| 3 | MP3A | Mx | -.001 | 1 |
| 4 | MP3A | X | 2.606 | 4 |
| 5 | MP3A | Z | -4.513 | 4 |
| 6 | MP3A | Mx | -.001 | 4 |
| 7 | MP2A | X | .339 | .75 |
| 8 | MP2A | Z | -.588 | .75 |
| 9 | MP2A | Mx | -.000334 | .75 |
| 10 | MP2A | X | 2.243 | 2.75 |
| 11 | MP2A | Z | -3.885 | 2.75 |
| 12 | MP2A | Mx | .001 | 2.75 |
| 13 | MP1A | X | 2.206 | 2.75 |
| 14 | MP1A | Z | -3.821 | 2.75 |
| 15 | MP1A | Mx | .001 | 2.75 |
| 16 | MP2A | X | 5.446 | .5 |
| 17 | MP2A | Z | -9.433 | .5 |
| 18 | MP2A | Mx | -.01 | .5 |
| 19 | MP2A | X | 5.446 | 4.5 |
| 20 | MP2A | Z | -9.433 | 4.5 |
| 21 | MP2A | Mx | -.01 | 4.5 |
| 22 | MP2A | X | 5.446 | .5 |
| 23 | MP2A | Z | -9.433 | .5 |
| 24 | MP2A | Mx | .004 | .5 |
| 25 | MP2A | X | 5.446 | 4.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 26 | MP2A | Z | -9.433 | 4.5 |
| 27 | MP2A | Mx | .004 | 4.5 |
| 28 | MP1A | X | 6.11 | .5 |
| 29 | MP1A | Z | -10.583 | .5 |
| 30 | MP1A | Mx | -.003 | .5 |
| 31 | MP1A | X | 6.11 | 4.5 |
| 32 | MP1A | Z | -10.583 | 4.5 |
| 33 | MP1A | Mx | -.003 | 4.5 |
| 34 | MP4A | X | 6.11 | .5 |
| 35 | MP4A | Z | -10.583 | .5 |
| 36 | MP4A | Mx | -.003 | .5 |
| 37 | MP4A | X | 6.11 | 4.5 |
| 38 | MP4A | Z | -10.583 | 4.5 |
| 39 | MP4A | Mx | -.003 | 4.5 |
| 40 | M13 | X | 4.995 | 1 |
| 41 | M13 | Z | -8.652 | 1 |
| 42 | M13 | Mx | -.002 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | 2.894 | 1 |
| 2 | MP3A | Z | -1.671 | 1 |
| 3 | MP3A | Mx | -.001 | 1 |
| 4 | MP3A | X | 2.894 | 4 |
| 5 | MP3A | Z | -1.671 | 4 |
| 6 | MP3A | Mx | -.001 | 4 |
| 7 | MP2A | X | .61 | .75 |
| 8 | MP2A | Z | -.352 | .75 |
| 9 | MP2A | Mx | -.000331 | .75 |
| 10 | MP2A | X | 3.183 | 2.75 |
| 11 | MP2A | Z | -1.837 | 2.75 |
| 12 | MP2A | Mx | .002 | 2.75 |
| 13 | MP1A | X | 2.991 | 2.75 |
| 14 | MP1A | Z | -1.727 | 2.75 |
| 15 | MP1A | Mx | .001 | 2.75 |
| 16 | MP2A | X | 7.662 | .5 |
| 17 | MP2A | Z | -4.424 | .5 |
| 18 | MP2A | Mx | -.007 | .5 |
| 19 | MP2A | X | 7.662 | 4.5 |
| 20 | MP2A | Z | -4.424 | 4.5 |
| 21 | MP2A | Mx | -.007 | 4.5 |
| 22 | MP2A | X | 7.662 | .5 |
| 23 | MP2A | Z | -4.424 | .5 |
| 24 | MP2A | Mx | -.000513 | .5 |
| 25 | MP2A | X | 7.662 | 4.5 |
| 26 | MP2A | Z | -4.424 | 4.5 |
| 27 | MP2A | Mx | -.000513 | 4.5 |
| 28 | MP1A | X | 10.002 | .5 |
| 29 | MP1A | Z | -5.775 | .5 |
| 30 | MP1A | Mx | -.005 | .5 |
| 31 | MP1A | X | 10.002 | 4.5 |
| 32 | MP1A | Z | -5.775 | 4.5 |
| 33 | MP1A | Mx | -.005 | 4.5 |
| 34 | MP4A | X | 10.002 | .5 |
| 35 | MP4A | Z | -5.775 | .5 |
| 36 | MP4A | Mx | -.005 | .5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 37 | MP4A | X | 10.002 | 4.5 |
| 38 | MP4A | Z | -5.775 | 4.5 |
| 39 | MP4A | Mx | -.005 | 4.5 |
| 40 | M13 | X | 7.561 | 1 |
| 41 | M13 | Z | -4.366 | 1 |
| 42 | M13 | Mx | -.004 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | 2.406 | 1 |
| 2 | MP3A | Z | 0 | 1 |
| 3 | MP3A | Mx | -.001 | 1 |
| 4 | MP3A | X | 2.406 | 4 |
| 5 | MP3A | Z | 0 | 4 |
| 6 | MP3A | Mx | -.001 | 4 |
| 7 | MP2A | X | .845 | .75 |
| 8 | MP2A | Z | 0 | .75 |
| 9 | MP2A | Mx | -.000272 | .75 |
| 10 | MP2A | X | 3.27 | 2.75 |
| 11 | MP2A | Z | 0 | 2.75 |
| 12 | MP2A | Mx | .002 | 2.75 |
| 13 | MP1A | X | 2.975 | 2.75 |
| 14 | MP1A | Z | 0 | 2.75 |
| 15 | MP1A | Mx | .001 | 2.75 |
| 16 | MP2A | X | 7.825 | .5 |
| 17 | MP2A | Z | 0 | .5 |
| 18 | MP2A | Mx | -.004 | .5 |
| 19 | MP2A | X | 7.825 | 4.5 |
| 20 | MP2A | Z | 0 | 4.5 |
| 21 | MP2A | Mx | -.004 | 4.5 |
| 22 | MP2A | X | 7.825 | .5 |
| 23 | MP2A | Z | 0 | .5 |
| 24 | MP2A | Mx | -.004 | .5 |
| 25 | MP2A | X | 7.825 | 4.5 |
| 26 | MP2A | Z | 0 | 4.5 |
| 27 | MP2A | Mx | -.004 | 4.5 |
| 28 | MP1A | X | 11.214 | .5 |
| 29 | MP1A | Z | 0 | .5 |
| 30 | MP1A | Mx | -.006 | .5 |
| 31 | MP1A | X | 11.214 | 4.5 |
| 32 | MP1A | Z | 0 | 4.5 |
| 33 | MP1A | Mx | -.006 | 4.5 |
| 34 | MP4A | X | 11.214 | .5 |
| 35 | MP4A | Z | 0 | .5 |
| 36 | MP4A | Mx | -.006 | .5 |
| 37 | MP4A | X | 11.214 | 4.5 |
| 38 | MP4A | Z | 0 | 4.5 |
| 39 | MP4A | Mx | -.006 | 4.5 |
| 40 | M13 | X | 8.102 | 1 |
| 41 | M13 | Z | 0 | 1 |
| 42 | M13 | Mx | -.004 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | 2.894 | 1 |
| 2 | MP3A | Z | 1.671 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 3 | MP3A | Mx | -.001 | 1 |
| 4 | MP3A | X | 2.894 | 4 |
| 5 | MP3A | Z | 1.671 | 4 |
| 6 | MP3A | Mx | -.001 | 4 |
| 7 | MP2A | X | .83 | .75 |
| 8 | MP2A | Z | .479 | .75 |
| 9 | MP2A | Mx | -8.3e-5 | .75 |
| 10 | MP2A | X | 3.183 | 2.75 |
| 11 | MP2A | Z | 1.837 | 2.75 |
| 12 | MP2A | Mx | .002 | 2.75 |
| 13 | MP1A | X | 2.991 | 2.75 |
| 14 | MP1A | Z | 1.727 | 2.75 |
| 15 | MP1A | Mx | .001 | 2.75 |
| 16 | MP2A | X | 7.662 | .5 |
| 17 | MP2A | Z | 4.424 | .5 |
| 18 | MP2A | Mx | -.000513 | .5 |
| 19 | MP2A | X | 7.662 | 4.5 |
| 20 | MP2A | Z | 4.424 | 4.5 |
| 21 | MP2A | Mx | -.000513 | 4.5 |
| 22 | MP2A | X | 7.662 | .5 |
| 23 | MP2A | Z | 4.424 | .5 |
| 24 | MP2A | Mx | -.007 | .5 |
| 25 | MP2A | X | 7.662 | 4.5 |
| 26 | MP2A | Z | 4.424 | 4.5 |
| 27 | MP2A | Mx | -.007 | 4.5 |
| 28 | MP1A | X | 10.002 | .5 |
| 29 | MP1A | Z | 5.775 | .5 |
| 30 | MP1A | Mx | -.005 | .5 |
| 31 | MP1A | X | 10.002 | 4.5 |
| 32 | MP1A | Z | 5.775 | 4.5 |
| 33 | MP1A | Mx | -.005 | 4.5 |
| 34 | MP4A | X | 10.002 | .5 |
| 35 | MP4A | Z | 5.775 | .5 |
| 36 | MP4A | Mx | -.005 | .5 |
| 37 | MP4A | X | 10.002 | 4.5 |
| 38 | MP4A | Z | 5.775 | 4.5 |
| 39 | MP4A | Mx | -.005 | 4.5 |
| 40 | M13 | X | 7.561 | 1 |
| 41 | M13 | Z | 4.366 | 1 |
| 42 | M13 | Mx | -.004 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | 2.606 | 1 |
| 2 | MP3A | Z | 4.513 | 1 |
| 3 | MP3A | Mx | -.001 | 1 |
| 4 | MP3A | X | 2.606 | 4 |
| 5 | MP3A | Z | 4.513 | 4 |
| 6 | MP3A | Mx | -.001 | 4 |
| 7 | MP2A | X | .466 | .75 |
| 8 | MP2A | Z | .808 | .75 |
| 9 | MP2A | Mx | .00016 | .75 |
| 10 | MP2A | X | 2.243 | 2.75 |
| 11 | MP2A | Z | 3.885 | 2.75 |
| 12 | MP2A | Mx | .001 | 2.75 |
| 13 | MP1A | X | 2.206 | 2.75 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 14 | MP1A | Z | 3.821 | 2.75 |
| 15 | MP1A | Mx | .001 | 2.75 |
| 16 | MP2A | X | 5.446 | .5 |
| 17 | MP2A | Z | 9.433 | .5 |
| 18 | MP2A | Mx | .004 | .5 |
| 19 | MP2A | X | 5.446 | 4.5 |
| 20 | MP2A | Z | 9.433 | 4.5 |
| 21 | MP2A | Mx | .004 | 4.5 |
| 22 | MP2A | X | 5.446 | .5 |
| 23 | MP2A | Z | 9.433 | .5 |
| 24 | MP2A | Mx | -.01 | .5 |
| 25 | MP2A | X | 5.446 | 4.5 |
| 26 | MP2A | Z | 9.433 | 4.5 |
| 27 | MP2A | Mx | -.01 | 4.5 |
| 28 | MP1A | X | 6.11 | .5 |
| 29 | MP1A | Z | 10.583 | .5 |
| 30 | MP1A | Mx | -.003 | .5 |
| 31 | MP1A | X | 6.11 | 4.5 |
| 32 | MP1A | Z | 10.583 | 4.5 |
| 33 | MP1A | Mx | -.003 | 4.5 |
| 34 | MP4A | X | 6.11 | .5 |
| 35 | MP4A | Z | 10.583 | .5 |
| 36 | MP4A | Mx | -.003 | .5 |
| 37 | MP4A | X | 6.11 | 4.5 |
| 38 | MP4A | Z | 10.583 | 4.5 |
| 39 | MP4A | Mx | -.003 | 4.5 |
| 40 | M13 | X | 4.995 | 1 |
| 41 | M13 | Z | 8.652 | 1 |
| 42 | M13 | Mx | -.002 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | 0 | 1 |
| 2 | MP3A | Z | 6.147 | 1 |
| 3 | MP3A | Mx | 0 | 1 |
| 4 | MP3A | X | 0 | 4 |
| 5 | MP3A | Z | 6.147 | 4 |
| 6 | MP3A | Mx | 0 | 4 |
| 7 | MP2A | X | 0 | .75 |
| 8 | MP2A | Z | .793 | .75 |
| 9 | MP2A | Mx | .000304 | .75 |
| 10 | MP2A | X | 0 | 2.75 |
| 11 | MP2A | Z | 4.891 | 2.75 |
| 12 | MP2A | Mx | 0 | 2.75 |
| 13 | MP1A | X | 0 | 2.75 |
| 14 | MP1A | Z | 4.891 | 2.75 |
| 15 | MP1A | Mx | 0 | 2.75 |
| 16 | MP2A | X | 0 | .5 |
| 17 | MP2A | Z | 11.914 | .5 |
| 18 | MP2A | Mx | .009 | .5 |
| 19 | MP2A | X | 0 | 4.5 |
| 20 | MP2A | Z | 11.914 | 4.5 |
| 21 | MP2A | Mx | .009 | 4.5 |
| 22 | MP2A | X | 0 | .5 |
| 23 | MP2A | Z | 11.914 | .5 |
| 24 | MP2A | Mx | -.009 | .5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 25 | MP2A | X | 0 | 4.5 |
| 26 | MP2A | Z | 11.914 | 4.5 |
| 27 | MP2A | Mx | -.009 | 4.5 |
| 28 | MP1A | X | 0 | .5 |
| 29 | MP1A | Z | 12.555 | .5 |
| 30 | MP1A | Mx | 0 | .5 |
| 31 | MP1A | X | 0 | 4.5 |
| 32 | MP1A | Z | 12.555 | 4.5 |
| 33 | MP1A | Mx | 0 | 4.5 |
| 34 | MP4A | X | 0 | .5 |
| 35 | MP4A | Z | 12.555 | .5 |
| 36 | MP4A | Mx | 0 | .5 |
| 37 | MP4A | X | 0 | 4.5 |
| 38 | MP4A | Z | 12.555 | 4.5 |
| 39 | MP4A | Mx | 0 | 4.5 |
| 40 | M13 | X | 0 | 1 |
| 41 | M13 | Z | 10.619 | 1 |
| 42 | M13 | Mx | 0 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | -2.606 | 1 |
| 2 | MP3A | Z | 4.513 | 1 |
| 3 | MP3A | Mx | .001 | 1 |
| 4 | MP3A | X | -2.606 | 4 |
| 5 | MP3A | Z | 4.513 | 4 |
| 6 | MP3A | Mx | .001 | 4 |
| 7 | MP2A | X | -.339 | .75 |
| 8 | MP2A | Z | .588 | .75 |
| 9 | MP2A | Mx | .000334 | .75 |
| 10 | MP2A | X | -2.243 | 2.75 |
| 11 | MP2A | Z | 3.885 | 2.75 |
| 12 | MP2A | Mx | -.001 | 2.75 |
| 13 | MP1A | X | -2.206 | 2.75 |
| 14 | MP1A | Z | 3.821 | 2.75 |
| 15 | MP1A | Mx | -.001 | 2.75 |
| 16 | MP2A | X | -5.446 | .5 |
| 17 | MP2A | Z | 9.433 | .5 |
| 18 | MP2A | Mx | .01 | .5 |
| 19 | MP2A | X | -5.446 | 4.5 |
| 20 | MP2A | Z | 9.433 | 4.5 |
| 21 | MP2A | Mx | .01 | 4.5 |
| 22 | MP2A | X | -5.446 | .5 |
| 23 | MP2A | Z | 9.433 | .5 |
| 24 | MP2A | Mx | -.004 | .5 |
| 25 | MP2A | X | -5.446 | 4.5 |
| 26 | MP2A | Z | 9.433 | 4.5 |
| 27 | MP2A | Mx | -.004 | 4.5 |
| 28 | MP1A | X | -6.11 | .5 |
| 29 | MP1A | Z | 10.583 | .5 |
| 30 | MP1A | Mx | .003 | .5 |
| 31 | MP1A | X | -6.11 | 4.5 |
| 32 | MP1A | Z | 10.583 | 4.5 |
| 33 | MP1A | Mx | .003 | 4.5 |
| 34 | MP4A | X | -6.11 | .5 |
| 35 | MP4A | Z | 10.583 | .5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 36 | MP4A | Mx | .003 | .5 |
| 37 | MP4A | X | -6.11 | 4.5 |
| 38 | MP4A | Z | 10.583 | 4.5 |
| 39 | MP4A | Mx | .003 | 4.5 |
| 40 | M13 | X | -4.995 | 1 |
| 41 | M13 | Z | 8.652 | 1 |
| 42 | M13 | Mx | .002 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | -2.894 | 1 |
| 2 | MP3A | Z | 1.671 | 1 |
| 3 | MP3A | Mx | .001 | 1 |
| 4 | MP3A | X | -2.894 | 4 |
| 5 | MP3A | Z | 1.671 | 4 |
| 6 | MP3A | Mx | .001 | 4 |
| 7 | MP2A | X | -.61 | .75 |
| 8 | MP2A | Z | .352 | .75 |
| 9 | MP2A | Mx | .000331 | .75 |
| 10 | MP2A | X | -3.183 | 2.75 |
| 11 | MP2A | Z | 1.837 | 2.75 |
| 12 | MP2A | Mx | -.002 | 2.75 |
| 13 | MP1A | X | -2.991 | 2.75 |
| 14 | MP1A | Z | 1.727 | 2.75 |
| 15 | MP1A | Mx | -.001 | 2.75 |
| 16 | MP2A | X | -7.662 | .5 |
| 17 | MP2A | Z | 4.424 | .5 |
| 18 | MP2A | Mx | .007 | .5 |
| 19 | MP2A | X | -7.662 | 4.5 |
| 20 | MP2A | Z | 4.424 | 4.5 |
| 21 | MP2A | Mx | .007 | 4.5 |
| 22 | MP2A | X | -7.662 | .5 |
| 23 | MP2A | Z | 4.424 | .5 |
| 24 | MP2A | Mx | .000513 | .5 |
| 25 | MP2A | X | -7.662 | 4.5 |
| 26 | MP2A | Z | 4.424 | 4.5 |
| 27 | MP2A | Mx | .000513 | 4.5 |
| 28 | MP1A | X | -10.002 | .5 |
| 29 | MP1A | Z | 5.775 | .5 |
| 30 | MP1A | Mx | .005 | .5 |
| 31 | MP1A | X | -10.002 | 4.5 |
| 32 | MP1A | Z | 5.775 | 4.5 |
| 33 | MP1A | Mx | .005 | 4.5 |
| 34 | MP4A | X | -10.002 | .5 |
| 35 | MP4A | Z | 5.775 | .5 |
| 36 | MP4A | Mx | .005 | .5 |
| 37 | MP4A | X | -10.002 | 4.5 |
| 38 | MP4A | Z | 5.775 | 4.5 |
| 39 | MP4A | Mx | .005 | 4.5 |
| 40 | M13 | X | -7.561 | 1 |
| 41 | M13 | Z | 4.366 | 1 |
| 42 | M13 | Mx | .004 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | -2.406 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 2 | MP3A | Z | 0 | 1 |
| 3 | MP3A | Mx | .001 | 1 |
| 4 | MP3A | X | -2.406 | 4 |
| 5 | MP3A | Z | 0 | 4 |
| 6 | MP3A | Mx | .001 | 4 |
| 7 | MP2A | X | -.845 | .75 |
| 8 | MP2A | Z | 0 | .75 |
| 9 | MP2A | Mx | .000272 | .75 |
| 10 | MP2A | X | -3.27 | 2.75 |
| 11 | MP2A | Z | 0 | 2.75 |
| 12 | MP2A | Mx | -.002 | 2.75 |
| 13 | MP1A | X | -2.975 | 2.75 |
| 14 | MP1A | Z | 0 | 2.75 |
| 15 | MP1A | Mx | -.001 | 2.75 |
| 16 | MP2A | X | -7.825 | .5 |
| 17 | MP2A | Z | 0 | .5 |
| 18 | MP2A | Mx | .004 | .5 |
| 19 | MP2A | X | -7.825 | 4.5 |
| 20 | MP2A | Z | 0 | 4.5 |
| 21 | MP2A | Mx | .004 | 4.5 |
| 22 | MP2A | X | -7.825 | .5 |
| 23 | MP2A | Z | 0 | .5 |
| 24 | MP2A | Mx | .004 | .5 |
| 25 | MP2A | X | -7.825 | 4.5 |
| 26 | MP2A | Z | 0 | 4.5 |
| 27 | MP2A | Mx | .004 | 4.5 |
| 28 | MP1A | X | -11.214 | .5 |
| 29 | MP1A | Z | 0 | .5 |
| 30 | MP1A | Mx | .006 | .5 |
| 31 | MP1A | X | -11.214 | 4.5 |
| 32 | MP1A | Z | 0 | 4.5 |
| 33 | MP1A | Mx | .006 | 4.5 |
| 34 | MP4A | X | -11.214 | .5 |
| 35 | MP4A | Z | 0 | .5 |
| 36 | MP4A | Mx | .006 | .5 |
| 37 | MP4A | X | -11.214 | 4.5 |
| 38 | MP4A | Z | 0 | 4.5 |
| 39 | MP4A | Mx | .006 | 4.5 |
| 40 | M13 | X | -8.102 | 1 |
| 41 | M13 | Z | 0 | 1 |
| 42 | M13 | Mx | .004 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | -2.894 | 1 |
| 2 | MP3A | Z | -1.671 | 1 |
| 3 | MP3A | Mx | .001 | 1 |
| 4 | MP3A | X | -2.894 | 4 |
| 5 | MP3A | Z | -1.671 | 4 |
| 6 | MP3A | Mx | .001 | 4 |
| 7 | MP2A | X | -.83 | .75 |
| 8 | MP2A | Z | -.479 | .75 |
| 9 | MP2A | Mx | 8.3e-5 | .75 |
| 10 | MP2A | X | -3.183 | 2.75 |
| 11 | MP2A | Z | -1.837 | 2.75 |
| 12 | MP2A | Mx | -.002 | 2.75 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 13 | MP1A | X | -2.991 | 2.75 |
| 14 | MP1A | Z | -1.727 | 2.75 |
| 15 | MP1A | Mx | -.001 | 2.75 |
| 16 | MP2A | X | -7.662 | .5 |
| 17 | MP2A | Z | -4.424 | .5 |
| 18 | MP2A | Mx | .000513 | .5 |
| 19 | MP2A | X | -7.662 | 4.5 |
| 20 | MP2A | Z | -4.424 | 4.5 |
| 21 | MP2A | Mx | .000513 | 4.5 |
| 22 | MP2A | X | -7.662 | .5 |
| 23 | MP2A | Z | -4.424 | .5 |
| 24 | MP2A | Mx | .007 | .5 |
| 25 | MP2A | X | -7.662 | 4.5 |
| 26 | MP2A | Z | -4.424 | 4.5 |
| 27 | MP2A | Mx | .007 | 4.5 |
| 28 | MP1A | X | -10.002 | .5 |
| 29 | MP1A | Z | -5.775 | .5 |
| 30 | MP1A | Mx | .005 | .5 |
| 31 | MP1A | X | -10.002 | 4.5 |
| 32 | MP1A | Z | -5.775 | 4.5 |
| 33 | MP1A | Mx | .005 | 4.5 |
| 34 | MP4A | X | -10.002 | .5 |
| 35 | MP4A | Z | -5.775 | .5 |
| 36 | MP4A | Mx | .005 | .5 |
| 37 | MP4A | X | -10.002 | 4.5 |
| 38 | MP4A | Z | -5.775 | 4.5 |
| 39 | MP4A | Mx | .005 | 4.5 |
| 40 | M13 | X | -7.561 | 1 |
| 41 | M13 | Z | -4.366 | 1 |
| 42 | M13 | Mx | .004 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP3A | X | -2.606 | 1 |
| 2 | MP3A | Z | -4.513 | 1 |
| 3 | MP3A | Mx | .001 | 1 |
| 4 | MP3A | X | -2.606 | 4 |
| 5 | MP3A | Z | -4.513 | 4 |
| 6 | MP3A | Mx | .001 | 4 |
| 7 | MP2A | X | -.466 | .75 |
| 8 | MP2A | Z | -.808 | .75 |
| 9 | MP2A | Mx | -.00016 | .75 |
| 10 | MP2A | X | -2.243 | 2.75 |
| 11 | MP2A | Z | -3.885 | 2.75 |
| 12 | MP2A | Mx | -.001 | 2.75 |
| 13 | MP1A | X | -2.206 | 2.75 |
| 14 | MP1A | Z | -3.821 | 2.75 |
| 15 | MP1A | Mx | -.001 | 2.75 |
| 16 | MP2A | X | -5.446 | .5 |
| 17 | MP2A | Z | -9.433 | .5 |
| 18 | MP2A | Mx | -.004 | .5 |
| 19 | MP2A | X | -5.446 | 4.5 |
| 20 | MP2A | Z | -9.433 | 4.5 |
| 21 | MP2A | Mx | -.004 | 4.5 |
| 22 | MP2A | X | -5.446 | .5 |
| 23 | MP2A | Z | -9.433 | .5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 24 | MP2A | Mx | .01 | .5 |
| 25 | MP2A | X | -5.446 | 4.5 |
| 26 | MP2A | Z | -9.433 | 4.5 |
| 27 | MP2A | Mx | .01 | 4.5 |
| 28 | MP1A | X | -6.11 | .5 |
| 29 | MP1A | Z | -10.583 | .5 |
| 30 | MP1A | Mx | .003 | .5 |
| 31 | MP1A | X | -6.11 | 4.5 |
| 32 | MP1A | Z | -10.583 | 4.5 |
| 33 | MP1A | Mx | .003 | 4.5 |
| 34 | MP4A | X | -6.11 | .5 |
| 35 | MP4A | Z | -10.583 | .5 |
| 36 | MP4A | Mx | .003 | .5 |
| 37 | MP4A | X | -6.11 | 4.5 |
| 38 | MP4A | Z | -10.583 | 4.5 |
| 39 | MP4A | Mx | .003 | 4.5 |
| 40 | M13 | X | -4.995 | 1 |
| 41 | M13 | Z | -8.652 | 1 |
| 42 | M13 | Mx | .002 | 1 |

## Member Point Loads (BLC 77 : Lm1)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | M5 | Y | -500 | %96 |

## Member Point Loads (BLC 78 : Lm2)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | M5 | Y | -500 | %59.5 |

## Member Point Loads (BLC 79 : Lv1)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | M5 | Y | -250 | %50 |

## Member Point Loads (BLC 80 : Lv2)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | M5 | Y | -250 | 0 |

## Member Distributed Loads (BLC 40 : Structure Di)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | Y | -9.551 | -9.551 | 0 | %100 |
| 2 | M4 | Y | -7.927 | -7.927 | 0 | %100 |
| 3 | M5 | Y | -6.524 | -6.524 | 0 | %100 |
| 4 | MP1A | Y | -4.945 | -4.945 | 0 | %100 |
| 5 | MP4A | Y | -4.945 | -4.945 | 0 | %100 |
| 6 | MP3A | Y | -4.945 | -4.945 | 0 | %100 |
| 7 | MP2A | Y | -5.647 | -5.647 | 0 | %100 |
| 8 | M13 | Y | -4.945 | -4.945 | 0 | %100 |
| 9 | M15 | Y | -6.524 | -6.524 | 0 | %100 |
| 10 | M21 | Y | -7.566 | -7.566 | 0 | %100 |

## Member Distributed Loads (BLC 41 : Structure Wo (0 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | 0 | 0 | 0 | %100 |
| 2 | M3 | Z | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 41 : Structure Wo (0 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 3 | M4 | X | 0 | 0 | 0 | %100 |
| 4 | M4 | Z | -10.502 | -10.502 | 0 | %100 |
| 5 | M5 | X | 0 | 0 | 0 | %100 |
| 6 | M5 | Z | -14.754 | -14.754 | 0 | %100 |
| 7 | MP1A | X | 0 | 0 | 0 | %100 |
| 8 | MP1A | Z | -10.785 | -10.785 | 0 | %100 |
| 9 | MP4A | X | 0 | 0 | 0 | %100 |
| 10 | MP4A | Z | -10.785 | -10.785 | 0 | %100 |
| 11 | MP3A | X | 0 | 0 | 0 | %100 |
| 12 | MP3A | Z | -10.785 | -10.785 | 0 | %100 |
| 13 | MP2A | X | 0 | 0 | 0 | %100 |
| 14 | MP2A | Z | -13.055 | -13.055 | 0 | %100 |
| 15 | M13 | X | 0 | 0 | 0 | %100 |
| 16 | M13 | Z | -8.819 | -8.819 | 0 | %100 |
| 17 | M15 | X | 0 | 0 | 0 | %100 |
| 18 | M15 | Z | -14.754 | -14.754 | 0 | %100 |
| 19 | M21 | X | 0 | 0 | 0 | %100 |
| 20 | M21 | Z | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 42 : Structure Wo (30 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | 2.035 | 2.035 | 0 | %100 |
| 2 | M3 | Z | -3.524 | -3.524 | 0 | %100 |
| 3 | M4 | X | 5.251 | 5.251 | 0 | %100 |
| 4 | M4 | Z | -9.095 | -9.095 | 0 | %100 |
| 5 | M5 | X | 5.533 | 5.533 | 0 | %100 |
| 6 | M5 | Z | -9.583 | -9.583 | 0 | %100 |
| 7 | MP1A | X | 5.392 | 5.392 | 0 | %100 |
| 8 | MP1A | Z | -9.34 | -9.34 | 0 | %100 |
| 9 | MP4A | X | 5.392 | 5.392 | 0 | %100 |
| 10 | MP4A | Z | -9.34 | -9.34 | 0 | %100 |
| 11 | MP3A | X | 5.392 | 5.392 | 0 | %100 |
| 12 | MP3A | Z | -9.34 | -9.34 | 0 | %100 |
| 13 | MP2A | X | 6.528 | 6.528 | 0 | %100 |
| 14 | MP2A | Z | -11.306 | -11.306 | 0 | %100 |
| 15 | M13 | X | 4.41 | 4.41 | 0 | %100 |
| 16 | M13 | Z | -7.638 | -7.638 | 0 | %100 |
| 17 | M15 | X | 5.533 | 5.533 | 0 | %100 |
| 18 | M15 | Z | -9.583 | -9.583 | 0 | %100 |
| 19 | M21 | X | 1.524 | 1.524 | 0 | %100 |
| 20 | M21 | Z | -2.639 | -2.639 | 0 | %100 |

## Member Distributed Loads (BLC 43 : Structure Wo (60 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | 10.573 | 10.573 | 0 | %100 |
| 2 | M3 | Z | -6.104 | -6.104 | 0 | %100 |
| 3 | M4 | X | 9.095 | 9.095 | 0 | %100 |
| 4 | M4 | Z | -5.251 | -5.251 | 0 | %100 |
| 5 | M5 | X | 3.194 | 3.194 | 0 | %100 |
| 6 | M5 | Z | -1.844 | -1.844 | 0 | %100 |
| 7 | MP1A | X | 9.34 | 9.34 | 0 | %100 |
| 8 | MP1A | Z | -5.392 | -5.392 | 0 | %100 |
| 9 | MP4A | X | 9.34 | 9.34 | 0 | %100 |
| 10 | MP4A | Z | -5.392 | -5.392 | 0 | %100 |
| 11 | MP3A | X | 9.34 | 9.34 | 0 | %100 |
| 12 | MP3A | Z | -5.392 | -5.392 | 0 | %100 |

## Member Distributed Loads (BLC 43 : Structure Wo (60 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 13 | MP2A | X | 11.306 | 11.306 | 0 | %100 |
| 14 | MP2A | Z | -6.528 | -6.528 | 0 | %100 |
| 15 | M13 | X | 7.638 | 7.638 | 0 | %100 |
| 16 | M13 | Z | -4.41 | -4.41 | 0 | %100 |
| 17 | M15 | X | 3.194 | 3.194 | 0 | %100 |
| 18 | M15 | Z | -1.844 | -1.844 | 0 | %100 |
| 19 | M21 | X | 7.917 | 7.917 | 0 | %100 |
| 20 | M21 | Z | -4.571 | -4.571 | 0 | %100 |

## Member Distributed Loads (BLC 44 : Structure Wo (90 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | 16.278 | 16.278 | 0 | %100 |
| 2 | M3 | Z | 0 | 0 | 0 | %100 |
| 3 | M4 | X | 10.502 | 10.502 | 0 | %100 |
| 4 | M4 | Z | 0 | 0 | 0 | %100 |
| 5 | M5 | X | 0 | 0 | 0 | %100 |
| 6 | M5 | Z | 0 | 0 | 0 | %100 |
| 7 | MP1A | X | 10.785 | 10.785 | 0 | %100 |
| 8 | MP1A | Z | 0 | 0 | 0 | %100 |
| 9 | MP4A | X | 10.785 | 10.785 | 0 | %100 |
| 10 | MP4A | Z | 0 | 0 | 0 | %100 |
| 11 | MP3A | X | 10.785 | 10.785 | 0 | %100 |
| 12 | MP3A | Z | 0 | 0 | 0 | %100 |
| 13 | MP2A | X | 13.055 | 13.055 | 0 | %100 |
| 14 | MP2A | Z | 0 | 0 | 0 | %100 |
| 15 | M13 | X | 8.819 | 8.819 | 0 | %100 |
| 16 | M13 | Z | 0 | 0 | 0 | %100 |
| 17 | M15 | X | 0 | 0 | 0 | %100 |
| 18 | M15 | Z | 0 | 0 | 0 | %100 |
| 19 | M21 | X | 12.189 | 12.189 | 0 | %100 |
| 20 | M21 | Z | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 45 : Structure Wo (120 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | 10.573 | 10.573 | 0 | %100 |
| 2 | M3 | Z | 6.104 | 6.104 | 0 | %100 |
| 3 | M4 | X | 9.095 | 9.095 | 0 | %100 |
| 4 | M4 | Z | 5.251 | 5.251 | 0 | %100 |
| 5 | M5 | X | 3.194 | 3.194 | 0 | %100 |
| 6 | M5 | Z | 1.844 | 1.844 | 0 | %100 |
| 7 | MP1A | X | 9.34 | 9.34 | 0 | %100 |
| 8 | MP1A | Z | 5.392 | 5.392 | 0 | %100 |
| 9 | MP4A | X | 9.34 | 9.34 | 0 | %100 |
| 10 | MP4A | Z | 5.392 | 5.392 | 0 | %100 |
| 11 | MP3A | X | 9.34 | 9.34 | 0 | %100 |
| 12 | MP3A | Z | 5.392 | 5.392 | 0 | %100 |
| 13 | MP2A | X | 11.306 | 11.306 | 0 | %100 |
| 14 | MP2A | Z | 6.528 | 6.528 | 0 | %100 |
| 15 | M13 | X | 7.638 | 7.638 | 0 | %100 |
| 16 | M13 | Z | 4.41 | 4.41 | 0 | %100 |
| 17 | M15 | X | 3.194 | 3.194 | 0 | %100 |
| 18 | M15 | Z | 1.844 | 1.844 | 0 | %100 |
| 19 | M21 | X | 7.917 | 7.917 | 0 | %100 |
| 20 | M21 | Z | 4.571 | 4.571 | 0 | %100 |

## Member Distributed Loads (BLC 46 : Structure Wo (150 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | 2.035 | 2.035 | 0 | %100 |
| 2 | M3 | Z | 3.524 | 3.524 | 0 | %100 |
| 3 | M4 | X | 5.251 | 5.251 | 0 | %100 |
| 4 | M4 | Z | 9.095 | 9.095 | 0 | %100 |
| 5 | M5 | X | 5.533 | 5.533 | 0 | %100 |
| 6 | M5 | Z | 9.583 | 9.583 | 0 | %100 |
| 7 | MP1A | X | 5.392 | 5.392 | 0 | %100 |
| 8 | MP1A | Z | 9.34 | 9.34 | 0 | %100 |
| 9 | MP4A | X | 5.392 | 5.392 | 0 | %100 |
| 10 | MP4A | Z | 9.34 | 9.34 | 0 | %100 |
| 11 | MP3A | X | 5.392 | 5.392 | 0 | %100 |
| 12 | MP3A | Z | 9.34 | 9.34 | 0 | %100 |
| 13 | MP2A | X | 6.528 | 6.528 | 0 | %100 |
| 14 | MP2A | Z | 11.306 | 11.306 | 0 | %100 |
| 15 | M13 | X | 4.41 | 4.41 | 0 | %100 |
| 16 | M13 | Z | 7.638 | 7.638 | 0 | %100 |
| 17 | M15 | X | 5.533 | 5.533 | 0 | %100 |
| 18 | M15 | Z | 9.583 | 9.583 | 0 | %100 |
| 19 | M21 | X | 1.524 | 1.524 | 0 | %100 |
| 20 | M21 | Z | 2.639 | 2.639 | 0 | %100 |

## Member Distributed Loads (BLC 47 : Structure Wo (180 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | 0 | 0 | 0 | %100 |
| 2 | M3 | Z | 0 | 0 | 0 | %100 |
| 3 | M4 | X | 0 | 0 | 0 | %100 |
| 4 | M4 | Z | 10.502 | 10.502 | 0 | %100 |
| 5 | M5 | X | 0 | 0 | 0 | %100 |
| 6 | M5 | Z | 14.754 | 14.754 | 0 | %100 |
| 7 | MP1A | X | 0 | 0 | 0 | %100 |
| 8 | MP1A | Z | 10.785 | 10.785 | 0 | %100 |
| 9 | MP4A | X | 0 | 0 | 0 | %100 |
| 10 | MP4A | Z | 10.785 | 10.785 | 0 | %100 |
| 11 | MP3A | X | 0 | 0 | 0 | %100 |
| 12 | MP3A | Z | 10.785 | 10.785 | 0 | %100 |
| 13 | MP2A | X | 0 | 0 | 0 | %100 |
| 14 | MP2A | Z | 13.055 | 13.055 | 0 | %100 |
| 15 | M13 | X | 0 | 0 | 0 | %100 |
| 16 | M13 | Z | 8.819 | 8.819 | 0 | %100 |
| 17 | M15 | X | 0 | 0 | 0 | %100 |
| 18 | M15 | Z | 14.754 | 14.754 | 0 | %100 |
| 19 | M21 | X | 0 | 0 | 0 | %100 |
| 20 | M21 | Z | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 48 : Structure Wo (210 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | -2.035 | -2.035 | 0 | %100 |
| 2 | M3 | Z | 3.524 | 3.524 | 0 | %100 |
| 3 | M4 | X | -5.251 | -5.251 | 0 | %100 |
| 4 | M4 | Z | 9.095 | 9.095 | 0 | %100 |
| 5 | M5 | X | -5.533 | -5.533 | 0 | %100 |
| 6 | M5 | Z | 9.583 | 9.583 | 0 | %100 |
| 7 | MP1A | X | -5.392 | -5.392 | 0 | %100 |
| 8 | MP1A | Z | 9.34 | 9.34 | 0 | %100 |
| 9 | MP4A | X | -5.392 | -5.392 | 0 | %100 |
| 10 | MP4A | Z | 9.34 | 9.34 | 0 | %100 |

## Member Distributed Loads (BLC 48 : Structure Wo (210 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 11 | MP3A | X | -5.392 | -5.392 | 0 | %100 |
| 12 | MP3A | Z | 9.34 | 9.34 | 0 | %100 |
| 13 | MP2A | X | -6.528 | -6.528 | 0 | %100 |
| 14 | MP2A | Z | 11.306 | 11.306 | 0 | %100 |
| 15 | M13 | X | -4.41 | -4.41 | 0 | %100 |
| 16 | M13 | Z | 7.638 | 7.638 | 0 | %100 |
| 17 | M15 | X | -5.533 | -5.533 | 0 | %100 |
| 18 | M15 | Z | 9.583 | 9.583 | 0 | %100 |
| 19 | M21 | X | -1.524 | -1.524 | 0 | %100 |
| 20 | M21 | Z | 2.639 | 2.639 | 0 | %100 |

## Member Distributed Loads (BLC 49 : Structure Wo (240 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | -10.573 | -10.573 | 0 | %100 |
| 2 | M3 | Z | 6.104 | 6.104 | 0 | %100 |
| 3 | M4 | X | -9.095 | -9.095 | 0 | %100 |
| 4 | M4 | Z | 5.251 | 5.251 | 0 | %100 |
| 5 | M5 | X | -3.194 | -3.194 | 0 | %100 |
| 6 | M5 | Z | 1.844 | 1.844 | 0 | %100 |
| 7 | MP1A | X | -9.34 | -9.34 | 0 | %100 |
| 8 | MP1A | Z | 5.392 | 5.392 | 0 | %100 |
| 9 | MP4A | X | -9.34 | -9.34 | 0 | %100 |
| 10 | MP4A | Z | 5.392 | 5.392 | 0 | %100 |
| 11 | MP3A | X | -9.34 | -9.34 | 0 | %100 |
| 12 | MP3A | Z | 5.392 | 5.392 | 0 | %100 |
| 13 | MP2A | X | -11.306 | -11.306 | 0 | %100 |
| 14 | MP2A | Z | 6.528 | 6.528 | 0 | %100 |
| 15 | M13 | X | -7.638 | -7.638 | 0 | %100 |
| 16 | M13 | Z | 4.41 | 4.41 | 0 | %100 |
| 17 | M15 | X | -3.194 | -3.194 | 0 | %100 |
| 18 | M15 | Z | 1.844 | 1.844 | 0 | %100 |
| 19 | M21 | X | -7.917 | -7.917 | 0 | %100 |
| 20 | M21 | Z | 4.571 | 4.571 | 0 | %100 |

## Member Distributed Loads (BLC 50 : Structure Wo (270 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | -16.278 | -16.278 | 0 | %100 |
| 2 | M3 | Z | 0 | 0 | 0 | %100 |
| 3 | M4 | X | -10.502 | -10.502 | 0 | %100 |
| 4 | M4 | Z | 0 | 0 | 0 | %100 |
| 5 | M5 | X | 0 | 0 | 0 | %100 |
| 6 | M5 | Z | 0 | 0 | 0 | %100 |
| 7 | MP1A | X | -10.785 | -10.785 | 0 | %100 |
| 8 | MP1A | Z | 0 | 0 | 0 | %100 |
| 9 | MP4A | X | -10.785 | -10.785 | 0 | %100 |
| 10 | MP4A | Z | 0 | 0 | 0 | %100 |
| 11 | MP3A | X | -10.785 | -10.785 | 0 | %100 |
| 12 | MP3A | Z | 0 | 0 | 0 | %100 |
| 13 | MP2A | X | -13.055 | -13.055 | 0 | %100 |
| 14 | MP2A | Z | 0 | 0 | 0 | %100 |
| 15 | M13 | X | -8.819 | -8.819 | 0 | %100 |
| 16 | M13 | Z | 0 | 0 | 0 | %100 |
| 17 | M15 | X | 0 | 0 | 0 | %100 |
| 18 | M15 | Z | 0 | 0 | 0 | %100 |
| 19 | M21 | X | -12.189 | -12.189 | 0 | %100 |
| 20 | M21 | Z | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 51 : Structure Wo (300 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | -10.573 | -10.573 | 0 | %100 |
| 2 | M3 | Z | -6.104 | -6.104 | 0 | %100 |
| 3 | M4 | X | -9.095 | -9.095 | 0 | %100 |
| 4 | M4 | Z | -5.251 | -5.251 | 0 | %100 |
| 5 | M5 | X | -3.194 | -3.194 | 0 | %100 |
| 6 | M5 | Z | -1.844 | -1.844 | 0 | %100 |
| 7 | MP1A | X | -9.34 | -9.34 | 0 | %100 |
| 8 | MP1A | Z | -5.392 | -5.392 | 0 | %100 |
| 9 | MP4A | X | -9.34 | -9.34 | 0 | %100 |
| 10 | MP4A | Z | -5.392 | -5.392 | 0 | %100 |
| 11 | MP3A | X | -9.34 | -9.34 | 0 | %100 |
| 12 | MP3A | Z | -5.392 | -5.392 | 0 | %100 |
| 13 | MP2A | X | -11.306 | -11.306 | 0 | %100 |
| 14 | MP2A | Z | -6.528 | -6.528 | 0 | %100 |
| 15 | M13 | X | -7.638 | -7.638 | 0 | %100 |
| 16 | M13 | Z | -4.41 | -4.41 | 0 | %100 |
| 17 | M15 | X | -3.194 | -3.194 | 0 | %100 |
| 18 | M15 | Z | -1.844 | -1.844 | 0 | %100 |
| 19 | M21 | X | -7.917 | -7.917 | 0 | %100 |
| 20 | M21 | Z | -4.571 | -4.571 | 0 | %100 |

## Member Distributed Loads (BLC 52 : Structure Wo (330 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | -2.035 | -2.035 | 0 | %100 |
| 2 | M3 | Z | -3.524 | -3.524 | 0 | %100 |
| 3 | M4 | X | -5.251 | -5.251 | 0 | %100 |
| 4 | M4 | Z | -9.095 | -9.095 | 0 | %100 |
| 5 | M5 | X | -5.533 | -5.533 | 0 | %100 |
| 6 | M5 | Z | -9.583 | -9.583 | 0 | %100 |
| 7 | MP1A | X | -5.392 | -5.392 | 0 | %100 |
| 8 | MP1A | Z | -9.34 | -9.34 | 0 | %100 |
| 9 | MP4A | X | -5.392 | -5.392 | 0 | %100 |
| 10 | MP4A | Z | -9.34 | -9.34 | 0 | %100 |
| 11 | MP3A | X | -5.392 | -5.392 | 0 | %100 |
| 12 | MP3A | Z | -9.34 | -9.34 | 0 | %100 |
| 13 | MP2A | X | -6.528 | -6.528 | 0 | %100 |
| 14 | MP2A | Z | -11.306 | -11.306 | 0 | %100 |
| 15 | M13 | X | -4.41 | -4.41 | 0 | %100 |
| 16 | M13 | Z | -7.638 | -7.638 | 0 | %100 |
| 17 | M15 | X | -5.533 | -5.533 | 0 | %100 |
| 18 | M15 | Z | -9.583 | -9.583 | 0 | %100 |
| 19 | M21 | X | -1.524 | -1.524 | 0 | %100 |
| 20 | M21 | Z | -2.639 | -2.639 | 0 | %100 |

## Member Distributed Loads (BLC 53 : Structure Wi (0 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | 0 | 0 | 0 | %100 |
| 2 | M3 | Z | 0 | 0 | 0 | %100 |
| 3 | M4 | X | 0 | 0 | 0 | %100 |
| 4 | M4 | Z | -3.056 | -3.056 | 0 | %100 |
| 5 | M5 | X | 0 | 0 | 0 | %100 |
| 6 | M5 | Z | -4.212 | -4.212 | 0 | %100 |
| 7 | MP1A | X | 0 | 0 | 0 | %100 |
| 8 | MP1A | Z | -3.395 | -3.395 | 0 | %100 |
| 9 | MP4A | X | 0 | 0 | 0 | %100 |
| 10 | MP4A | Z | -3.395 | -3.395 | 0 | %100 |

## Member Distributed Loads (BLC 53 : Structure Wi (0 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 11 | MP3A | X | 0 | 0 | 0 | %100 |
| 12 | MP3A | Z | -3.395 | -3.395 | 0 | %100 |
| 13 | MP2A | X | 0 | 0 | 0 | %100 |
| 14 | MP2A | Z | -3.758 | -3.758 | 0 | %100 |
| 15 | M13 | X | 0 | 0 | 0 | %100 |
| 16 | M13 | Z | -2.792 | -2.792 | 0 | %100 |
| 17 | M15 | X | 0 | 0 | 0 | %100 |
| 18 | M15 | Z | -4.212 | -4.212 | 0 | %100 |
| 19 | M21 | X | 0 | 0 | 0 | %100 |
| 20 | M21 | Z | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 54 : Structure Wi (30 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | .515 | .515 | 0 | %100 |
| 2 | M3 | Z | -.892 | -.892 | 0 | %100 |
| 3 | M4 | X | 1.528 | 1.528 | 0 | %100 |
| 4 | M4 | Z | -2.646 | -2.646 | 0 | %100 |
| 5 | M5 | X | 1.58 | 1.58 | 0 | %100 |
| 6 | M5 | Z | -2.736 | -2.736 | 0 | %100 |
| 7 | MP1A | X | 1.697 | 1.697 | 0 | %100 |
| 8 | MP1A | Z | -2.94 | -2.94 | 0 | %100 |
| 9 | MP4A | X | 1.697 | 1.697 | 0 | %100 |
| 10 | MP4A | Z | -2.94 | -2.94 | 0 | %100 |
| 11 | MP3A | X | 1.697 | 1.697 | 0 | %100 |
| 12 | MP3A | Z | -2.94 | -2.94 | 0 | %100 |
| 13 | MP2A | X | 1.879 | 1.879 | 0 | %100 |
| 14 | MP2A | Z | -3.255 | -3.255 | 0 | %100 |
| 15 | M13 | X | 1.396 | 1.396 | 0 | %100 |
| 16 | M13 | Z | -2.418 | -2.418 | 0 | %100 |
| 17 | M15 | X | 1.58 | 1.58 | 0 | %100 |
| 18 | M15 | Z | -2.736 | -2.736 | 0 | %100 |
| 19 | M21 | X | .436 | .436 | 0 | %100 |
| 20 | M21 | Z | -.756 | -.756 | 0 | %100 |

## Member Distributed Loads (BLC 55 : Structure Wi (60 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | 2.676 | 2.676 | 0 | %100 |
| 2 | M3 | Z | -1.545 | -1.545 | 0 | %100 |
| 3 | M4 | X | 2.646 | 2.646 | 0 | %100 |
| 4 | M4 | Z | -1.528 | -1.528 | 0 | %100 |
| 5 | M5 | X | .912 | .912 | 0 | %100 |
| 6 | M5 | Z | -.527 | -.527 | 0 | %100 |
| 7 | MP1A | X | 2.94 | 2.94 | 0 | %100 |
| 8 | MP1A | Z | -1.697 | -1.697 | 0 | %100 |
| 9 | MP4A | X | 2.94 | 2.94 | 0 | %100 |
| 10 | MP4A | Z | -1.697 | -1.697 | 0 | %100 |
| 11 | MP3A | X | 2.94 | 2.94 | 0 | %100 |
| 12 | MP3A | Z | -1.697 | -1.697 | 0 | %100 |
| 13 | MP2A | X | 3.255 | 3.255 | 0 | %100 |
| 14 | MP2A | Z | -1.879 | -1.879 | 0 | %100 |
| 15 | M13 | X | 2.418 | 2.418 | 0 | %100 |
| 16 | M13 | Z | -1.396 | -1.396 | 0 | %100 |
| 17 | M15 | X | .912 | .912 | 0 | %100 |
| 18 | M15 | Z | -.527 | -.527 | 0 | %100 |
| 19 | M21 | X | 2.267 | 2.267 | 0 | %100 |
| 20 | M21 | Z | -1.309 | -1.309 | 0 | %100 |

## Member Distributed Loads (BLC 56 : Structure Wi (90 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | 4.12 | 4.12 | 0 | %100 |
| 2 | M3 | Z | 0 | 0 | 0 | %100 |
| 3 | M4 | X | 3.056 | 3.056 | 0 | %100 |
| 4 | M4 | Z | 0 | 0 | 0 | %100 |
| 5 | M5 | X | 0 | 0 | 0 | %100 |
| 6 | M5 | Z | 0 | 0 | 0 | %100 |
| 7 | MP1A | X | 3.395 | 3.395 | 0 | %100 |
| 8 | MP1A | Z | 0 | 0 | 0 | %100 |
| 9 | MP4A | X | 3.395 | 3.395 | 0 | %100 |
| 10 | MP4A | Z | 0 | 0 | 0 | %100 |
| 11 | MP3A | X | 3.395 | 3.395 | 0 | %100 |
| 12 | MP3A | Z | 0 | 0 | 0 | %100 |
| 13 | MP2A | X | 3.758 | 3.758 | 0 | %100 |
| 14 | MP2A | Z | 0 | 0 | 0 | %100 |
| 15 | M13 | X | 2.792 | 2.792 | 0 | %100 |
| 16 | M13 | Z | 0 | 0 | 0 | %100 |
| 17 | M15 | X | 0 | 0 | 0 | %100 |
| 18 | M15 | Z | 0 | 0 | 0 | %100 |
| 19 | M21 | X | 3.49 | 3.49 | 0 | %100 |
| 20 | M21 | Z | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 57 : Structure Wi (120 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | 2.676 | 2.676 | 0 | %100 |
| 2 | M3 | Z | 1.545 | 1.545 | 0 | %100 |
| 3 | M4 | X | 2.646 | 2.646 | 0 | %100 |
| 4 | M4 | Z | 1.528 | 1.528 | 0 | %100 |
| 5 | M5 | X | .912 | .912 | 0 | %100 |
| 6 | M5 | Z | .527 | .527 | 0 | %100 |
| 7 | MP1A | X | 2.94 | 2.94 | 0 | %100 |
| 8 | MP1A | Z | 1.697 | 1.697 | 0 | %100 |
| 9 | MP4A | X | 2.94 | 2.94 | 0 | %100 |
| 10 | MP4A | Z | 1.697 | 1.697 | 0 | %100 |
| 11 | MP3A | X | 2.94 | 2.94 | 0 | %100 |
| 12 | MP3A | Z | 1.697 | 1.697 | 0 | %100 |
| 13 | MP2A | X | 3.255 | 3.255 | 0 | %100 |
| 14 | MP2A | Z | 1.879 | 1.879 | 0 | %100 |
| 15 | M13 | X | 2.418 | 2.418 | 0 | %100 |
| 16 | M13 | Z | 1.396 | 1.396 | 0 | %100 |
| 17 | M15 | X | .912 | .912 | 0 | %100 |
| 18 | M15 | Z | .527 | .527 | 0 | %100 |
| 19 | M21 | X | 2.267 | 2.267 | 0 | %100 |
| 20 | M21 | Z | 1.309 | 1.309 | 0 | %100 |

## Member Distributed Loads (BLC 58 : Structure Wi (150 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | .515 | .515 | 0 | %100 |
| 2 | M3 | Z | .892 | .892 | 0 | %100 |
| 3 | M4 | X | 1.528 | 1.528 | 0 | %100 |
| 4 | M4 | Z | 2.646 | 2.646 | 0 | %100 |
| 5 | M5 | X | 1.58 | 1.58 | 0 | %100 |
| 6 | M5 | Z | 2.736 | 2.736 | 0 | %100 |
| 7 | MP1A | X | 1.697 | 1.697 | 0 | %100 |
| 8 | MP1A | Z | 2.94 | 2.94 | 0 | %100 |
| 9 | MP4A | X | 1.697 | 1.697 | 0 | %100 |
| 10 | MP4A | Z | 2.94 | 2.94 | 0 | %100 |

## Member Distributed Loads (BLC 58 : Structure Wi (150 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 11 | MP3A | X | 1.697 | 1.697 | 0 | %100 |
| 12 | MP3A | Z | 2.94 | 2.94 | 0 | %100 |
| 13 | MP2A | X | 1.879 | 1.879 | 0 | %100 |
| 14 | MP2A | Z | 3.255 | 3.255 | 0 | %100 |
| 15 | M13 | X | 1.396 | 1.396 | 0 | %100 |
| 16 | M13 | Z | 2.418 | 2.418 | 0 | %100 |
| 17 | M15 | X | 1.58 | 1.58 | 0 | %100 |
| 18 | M15 | Z | 2.736 | 2.736 | 0 | %100 |
| 19 | M21 | X | .436 | .436 | 0 | %100 |
| 20 | M21 | Z | .756 | .756 | 0 | %100 |

## Member Distributed Loads (BLC 59 : Structure Wi (180 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | 0 | 0 | 0 | %100 |
| 2 | M3 | Z | 0 | 0 | 0 | %100 |
| 3 | M4 | X | 0 | 0 | 0 | %100 |
| 4 | M4 | Z | 3.056 | 3.056 | 0 | %100 |
| 5 | M5 | X | 0 | 0 | 0 | %100 |
| 6 | M5 | Z | 4.212 | 4.212 | 0 | %100 |
| 7 | MP1A | X | 0 | 0 | 0 | %100 |
| 8 | MP1A | Z | 3.395 | 3.395 | 0 | %100 |
| 9 | MP4A | X | 0 | 0 | 0 | %100 |
| 10 | MP4A | Z | 3.395 | 3.395 | 0 | %100 |
| 11 | MP3A | X | 0 | 0 | 0 | %100 |
| 12 | MP3A | Z | 3.395 | 3.395 | 0 | %100 |
| 13 | MP2A | X | 0 | 0 | 0 | %100 |
| 14 | MP2A | Z | 3.758 | 3.758 | 0 | %100 |
| 15 | M13 | X | 0 | 0 | 0 | %100 |
| 16 | M13 | Z | 2.792 | 2.792 | 0 | %100 |
| 17 | M15 | X | 0 | 0 | 0 | %100 |
| 18 | M15 | Z | 4.212 | 4.212 | 0 | %100 |
| 19 | M21 | X | 0 | 0 | 0 | %100 |
| 20 | M21 | Z | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 60 : Structure Wi (210 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | -.515 | -.515 | 0 | %100 |
| 2 | M3 | Z | .892 | .892 | 0 | %100 |
| 3 | M4 | X | -1.528 | -1.528 | 0 | %100 |
| 4 | M4 | Z | 2.646 | 2.646 | 0 | %100 |
| 5 | M5 | X | -1.58 | -1.58 | 0 | %100 |
| 6 | M5 | Z | 2.736 | 2.736 | 0 | %100 |
| 7 | MP1A | X | -1.697 | -1.697 | 0 | %100 |
| 8 | MP1A | Z | 2.94 | 2.94 | 0 | %100 |
| 9 | MP4A | X | -1.697 | -1.697 | 0 | %100 |
| 10 | MP4A | Z | 2.94 | 2.94 | 0 | %100 |
| 11 | MP3A | X | -1.697 | -1.697 | 0 | %100 |
| 12 | MP3A | Z | 2.94 | 2.94 | 0 | %100 |
| 13 | MP2A | X | -1.879 | -1.879 | 0 | %100 |
| 14 | MP2A | Z | 3.255 | 3.255 | 0 | %100 |
| 15 | M13 | X | -1.396 | -1.396 | 0 | %100 |
| 16 | M13 | Z | 2.418 | 2.418 | 0 | %100 |
| 17 | M15 | X | -1.58 | -1.58 | 0 | %100 |
| 18 | M15 | Z | 2.736 | 2.736 | 0 | %100 |
| 19 | M21 | X | -.436 | -.436 | 0 | %100 |
| 20 | M21 | Z | .756 | .756 | 0 | %100 |

## Member Distributed Loads (BLC 61 : Structure Wi (240 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | -2.676 | -2.676 | 0 | %100 |
| 2 | M3 | Z | 1.545 | 1.545 | 0 | %100 |
| 3 | M4 | X | -2.646 | -2.646 | 0 | %100 |
| 4 | M4 | Z | 1.528 | 1.528 | 0 | %100 |
| 5 | M5 | X | -.912 | -.912 | 0 | %100 |
| 6 | M5 | Z | .527 | .527 | 0 | %100 |
| 7 | MP1A | X | -2.94 | -2.94 | 0 | %100 |
| 8 | MP1A | Z | 1.697 | 1.697 | 0 | %100 |
| 9 | MP4A | X | -2.94 | -2.94 | 0 | %100 |
| 10 | MP4A | Z | 1.697 | 1.697 | 0 | %100 |
| 11 | MP3A | X | -2.94 | -2.94 | 0 | %100 |
| 12 | MP3A | Z | 1.697 | 1.697 | 0 | %100 |
| 13 | MP2A | X | -3.255 | -3.255 | 0 | %100 |
| 14 | MP2A | Z | 1.879 | 1.879 | 0 | %100 |
| 15 | M13 | X | -2.418 | -2.418 | 0 | %100 |
| 16 | M13 | Z | 1.396 | 1.396 | 0 | %100 |
| 17 | M15 | X | -.912 | -.912 | 0 | %100 |
| 18 | M15 | Z | .527 | .527 | 0 | %100 |
| 19 | M21 | X | -2.267 | -2.267 | 0 | %100 |
| 20 | M21 | Z | 1.309 | 1.309 | 0 | %100 |

## Member Distributed Loads (BLC 62 : Structure Wi (270 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | -4.12 | -4.12 | 0 | %100 |
| 2 | M3 | Z | 0 | 0 | 0 | %100 |
| 3 | M4 | X | -3.056 | -3.056 | 0 | %100 |
| 4 | M4 | Z | 0 | 0 | 0 | %100 |
| 5 | M5 | X | 0 | 0 | 0 | %100 |
| 6 | M5 | Z | 0 | 0 | 0 | %100 |
| 7 | MP1A | X | -3.395 | -3.395 | 0 | %100 |
| 8 | MP1A | Z | 0 | 0 | 0 | %100 |
| 9 | MP4A | X | -3.395 | -3.395 | 0 | %100 |
| 10 | MP4A | Z | 0 | 0 | 0 | %100 |
| 11 | MP3A | X | -3.395 | -3.395 | 0 | %100 |
| 12 | MP3A | Z | 0 | 0 | 0 | %100 |
| 13 | MP2A | X | -3.758 | -3.758 | 0 | %100 |
| 14 | MP2A | Z | 0 | 0 | 0 | %100 |
| 15 | M13 | X | -2.792 | -2.792 | 0 | %100 |
| 16 | M13 | Z | 0 | 0 | 0 | %100 |
| 17 | M15 | X | 0 | 0 | 0 | %100 |
| 18 | M15 | Z | 0 | 0 | 0 | %100 |
| 19 | M21 | X | -3.49 | -3.49 | 0 | %100 |
| 20 | M21 | Z | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 63 : Structure Wi (300 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | -2.676 | -2.676 | 0 | %100 |
| 2 | M3 | Z | -1.545 | -1.545 | 0 | %100 |
| 3 | M4 | X | -2.646 | -2.646 | 0 | %100 |
| 4 | M4 | Z | -1.528 | -1.528 | 0 | %100 |
| 5 | M5 | X | -.912 | -.912 | 0 | %100 |
| 6 | M5 | Z | -.527 | -.527 | 0 | %100 |
| 7 | MP1A | X | -2.94 | -2.94 | 0 | %100 |
| 8 | MP1A | Z | -1.697 | -1.697 | 0 | %100 |
| 9 | MP4A | X | -2.94 | -2.94 | 0 | %100 |
| 10 | MP4A | Z | -1.697 | -1.697 | 0 | %100 |

## Member Distributed Loads (BLC 63 : Structure Wi (300 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 11 | MP3A | X | -2.94 | -2.94 | 0 | %100 |
| 12 | MP3A | Z | -1.697 | -1.697 | 0 | %100 |
| 13 | MP2A | X | -3.255 | -3.255 | 0 | %100 |
| 14 | MP2A | Z | -1.879 | -1.879 | 0 | %100 |
| 15 | M13 | X | -2.418 | -2.418 | 0 | %100 |
| 16 | M13 | Z | -1.396 | -1.396 | 0 | %100 |
| 17 | M15 | X | -.912 | -.912 | 0 | %100 |
| 18 | M15 | Z | -.527 | -.527 | 0 | %100 |
| 19 | M21 | X | -2.267 | -2.267 | 0 | %100 |
| 20 | M21 | Z | -1.309 | -1.309 | 0 | %100 |

## Member Distributed Loads (BLC 64 : Structure Wi (330 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | -.515 | -.515 | 0 | %100 |
| 2 | M3 | Z | -.892 | -.892 | 0 | %100 |
| 3 | M4 | X | -1.528 | -1.528 | 0 | %100 |
| 4 | M4 | Z | -2.646 | -2.646 | 0 | %100 |
| 5 | M5 | X | -1.58 | -1.58 | 0 | %100 |
| 6 | M5 | Z | -2.736 | -2.736 | 0 | %100 |
| 7 | MP1A | X | -1.697 | -1.697 | 0 | %100 |
| 8 | MP1A | Z | -2.94 | -2.94 | 0 | %100 |
| 9 | MP4A | X | -1.697 | -1.697 | 0 | %100 |
| 10 | MP4A | Z | -2.94 | -2.94 | 0 | %100 |
| 11 | MP3A | X | -1.697 | -1.697 | 0 | %100 |
| 12 | MP3A | Z | -2.94 | -2.94 | 0 | %100 |
| 13 | MP2A | X | -1.879 | -1.879 | 0 | %100 |
| 14 | MP2A | Z | -3.255 | -3.255 | 0 | %100 |
| 15 | M13 | X | -1.396 | -1.396 | 0 | %100 |
| 16 | M13 | Z | -2.418 | -2.418 | 0 | %100 |
| 17 | M15 | X | -1.58 | -1.58 | 0 | %100 |
| 18 | M15 | Z | -2.736 | -2.736 | 0 | %100 |
| 19 | M21 | X | -.436 | -.436 | 0 | %100 |
| 20 | M21 | Z | -.756 | -.756 | 0 | %100 |

## Member Distributed Loads (BLC 65 : Structure Wm (0 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | 0 | 0 | 0 | %100 |
| 2 | M3 | Z | 0 | 0 | 0 | %100 |
| 3 | M4 | X | 0 | 0 | 0 | %100 |
| 4 | M4 | Z | -.605 | -.605 | 0 | %100 |
| 5 | M5 | X | 0 | 0 | 0 | %100 |
| 6 | M5 | Z | -.85 | -.85 | 0 | %100 |
| 7 | MP1A | X | 0 | 0 | 0 | %100 |
| 8 | MP1A | Z | -.621 | -.621 | 0 | %100 |
| 9 | MP4A | X | 0 | 0 | 0 | %100 |
| 10 | MP4A | Z | -.621 | -.621 | 0 | %100 |
| 11 | MP3A | X | 0 | 0 | 0 | %100 |
| 12 | MP3A | Z | -.621 | -.621 | 0 | %100 |
| 13 | MP2A | X | 0 | 0 | 0 | %100 |
| 14 | MP2A | Z | -.752 | -.752 | 0 | %100 |
| 15 | M13 | X | 0 | 0 | 0 | %100 |
| 16 | M13 | Z | -.508 | -.508 | 0 | %100 |
| 17 | M15 | X | 0 | 0 | 0 | %100 |
| 18 | M15 | Z | -.85 | -.85 | 0 | %100 |
| 19 | M21 | X | 0 | 0 | 0 | %100 |
| 20 | M21 | Z | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 66 : Structure Wm (30 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | .117 | .117 | 0 | %100 |
| 2 | M3 | Z | -.203 | -.203 | 0 | %100 |
| 3 | M4 | X | .302 | .302 | 0 | %100 |
| 4 | M4 | Z | -.524 | -.524 | 0 | %100 |
| 5 | M5 | X | .319 | .319 | 0 | %100 |
| 6 | M5 | Z | -.552 | -.552 | 0 | %100 |
| 7 | MP1A | X | .311 | .311 | 0 | %100 |
| 8 | MP1A | Z | -.538 | -.538 | 0 | %100 |
| 9 | MP4A | X | .311 | .311 | 0 | %100 |
| 10 | MP4A | Z | -.538 | -.538 | 0 | %100 |
| 11 | MP3A | X | .311 | .311 | 0 | %100 |
| 12 | MP3A | Z | -.538 | -.538 | 0 | %100 |
| 13 | MP2A | X | .376 | .376 | 0 | %100 |
| 14 | MP2A | Z | -.651 | -.651 | 0 | %100 |
| 15 | M13 | X | .254 | .254 | 0 | %100 |
| 16 | M13 | Z | -.44 | -.44 | 0 | %100 |
| 17 | M15 | X | .319 | .319 | 0 | %100 |
| 18 | M15 | Z | -.552 | -.552 | 0 | %100 |
| 19 | M21 | X | .088 | .088 | 0 | %100 |
| 20 | M21 | Z | -.152 | -.152 | 0 | %100 |

## Member Distributed Loads (BLC 67 : Structure Wm (60 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | .609 | .609 | 0 | %100 |
| 2 | M3 | Z | -.352 | -.352 | 0 | %100 |
| 3 | M4 | X | .524 | .524 | 0 | %100 |
| 4 | M4 | Z | -.302 | -.302 | 0 | %100 |
| 5 | M5 | X | .184 | .184 | 0 | %100 |
| 6 | M5 | Z | -.106 | -.106 | 0 | %100 |
| 7 | MP1A | X | .538 | .538 | 0 | %100 |
| 8 | MP1A | Z | -.311 | -.311 | 0 | %100 |
| 9 | MP4A | X | .538 | .538 | 0 | %100 |
| 10 | MP4A | Z | -.311 | -.311 | 0 | %100 |
| 11 | MP3A | X | .538 | .538 | 0 | %100 |
| 12 | MP3A | Z | -.311 | -.311 | 0 | %100 |
| 13 | MP2A | X | .651 | .651 | 0 | %100 |
| 14 | MP2A | Z | -.376 | -.376 | 0 | %100 |
| 15 | M13 | X | .44 | .44 | 0 | %100 |
| 16 | M13 | Z | -.254 | -.254 | 0 | %100 |
| 17 | M15 | X | .184 | .184 | 0 | %100 |
| 18 | M15 | Z | -.106 | -.106 | 0 | %100 |
| 19 | M21 | X | .456 | .456 | 0 | %100 |
| 20 | M21 | Z | -.263 | -.263 | 0 | %100 |

## Member Distributed Loads (BLC 68 : Structure Wm (90 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | .938 | .938 | 0 | %100 |
| 2 | M3 | Z | 0 | 0 | 0 | %100 |
| 3 | M4 | X | .605 | .605 | 0 | %100 |
| 4 | M4 | Z | 0 | 0 | 0 | %100 |
| 5 | M5 | X | 0 | 0 | 0 | %100 |
| 6 | M5 | Z | 0 | 0 | 0 | %100 |
| 7 | MP1A | X | .621 | .621 | 0 | %100 |
| 8 | MP1A | Z | 0 | 0 | 0 | %100 |
| 9 | MP4A | X | .621 | .621 | 0 | %100 |
| 10 | MP4A | Z | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 68 : Structure Wm (90 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 11 | MP3A | X | .621 | .621 | 0 | %100 |
| 12 | MP3A | Z | 0 | 0 | 0 | %100 |
| 13 | MP2A | X | .752 | .752 | 0 | %100 |
| 14 | MP2A | Z | 0 | 0 | 0 | %100 |
| 15 | M13 | X | .508 | .508 | 0 | %100 |
| 16 | M13 | Z | 0 | 0 | 0 | %100 |
| 17 | M15 | X | 0 | 0 | 0 | %100 |
| 18 | M15 | Z | 0 | 0 | 0 | %100 |
| 19 | M21 | X | .702 | .702 | 0 | %100 |
| 20 | M21 | Z | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 69 : Structure Wm (120 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | .609 | .609 | 0 | %100 |
| 2 | M3 | Z | .352 | .352 | 0 | %100 |
| 3 | M4 | X | .524 | .524 | 0 | %100 |
| 4 | M4 | Z | .302 | .302 | 0 | %100 |
| 5 | M5 | X | .184 | .184 | 0 | %100 |
| 6 | M5 | Z | .106 | .106 | 0 | %100 |
| 7 | MP1A | X | .538 | .538 | 0 | %100 |
| 8 | MP1A | Z | .311 | .311 | 0 | %100 |
| 9 | MP4A | X | .538 | .538 | 0 | %100 |
| 10 | MP4A | Z | .311 | .311 | 0 | %100 |
| 11 | MP3A | X | .538 | .538 | 0 | %100 |
| 12 | MP3A | Z | .311 | .311 | 0 | %100 |
| 13 | MP2A | X | .651 | .651 | 0 | %100 |
| 14 | MP2A | Z | .376 | .376 | 0 | %100 |
| 15 | M13 | X | .44 | .44 | 0 | %100 |
| 16 | M13 | Z | .254 | .254 | 0 | %100 |
| 17 | M15 | X | .184 | .184 | 0 | %100 |
| 18 | M15 | Z | .106 | .106 | 0 | %100 |
| 19 | M21 | X | .456 | .456 | 0 | %100 |
| 20 | M21 | Z | .263 | .263 | 0 | %100 |

## Member Distributed Loads (BLC 70 : Structure Wm (150 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | .117 | .117 | 0 | %100 |
| 2 | M3 | Z | .203 | .203 | 0 | %100 |
| 3 | M4 | X | .302 | .302 | 0 | %100 |
| 4 | M4 | Z | .524 | .524 | 0 | %100 |
| 5 | M5 | X | .319 | .319 | 0 | %100 |
| 6 | M5 | Z | .552 | .552 | 0 | %100 |
| 7 | MP1A | X | .311 | .311 | 0 | %100 |
| 8 | MP1A | Z | .538 | .538 | 0 | %100 |
| 9 | MP4A | X | .311 | .311 | 0 | %100 |
| 10 | MP4A | Z | .538 | .538 | 0 | %100 |
| 11 | MP3A | X | .311 | .311 | 0 | %100 |
| 12 | MP3A | Z | .538 | .538 | 0 | %100 |
| 13 | MP2A | X | .376 | .376 | 0 | %100 |
| 14 | MP2A | Z | .651 | .651 | 0 | %100 |
| 15 | M13 | X | .254 | .254 | 0 | %100 |
| 16 | M13 | Z | .44 | .44 | 0 | %100 |
| 17 | M15 | X | .319 | .319 | 0 | %100 |
| 18 | M15 | Z | .552 | .552 | 0 | %100 |
| 19 | M21 | X | .088 | .088 | 0 | %100 |
| 20 | M21 | Z | .152 | .152 | 0 | %100 |

## Member Distributed Loads (BLC 71 : Structure Wm (180 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | 0 | 0 | 0 | %100 |
| 2 | M3 | Z | 0 | 0 | 0 | %100 |
| 3 | M4 | X | 0 | 0 | 0 | %100 |
| 4 | M4 | Z | .605 | .605 | 0 | %100 |
| 5 | M5 | X | 0 | 0 | 0 | %100 |
| 6 | M5 | Z | .85 | .85 | 0 | %100 |
| 7 | MP1A | X | 0 | 0 | 0 | %100 |
| 8 | MP1A | Z | .621 | .621 | 0 | %100 |
| 9 | MP4A | X | 0 | 0 | 0 | %100 |
| 10 | MP4A | Z | .621 | .621 | 0 | %100 |
| 11 | MP3A | X | 0 | 0 | 0 | %100 |
| 12 | MP3A | Z | .621 | .621 | 0 | %100 |
| 13 | MP2A | X | 0 | 0 | 0 | %100 |
| 14 | MP2A | Z | .752 | .752 | 0 | %100 |
| 15 | M13 | X | 0 | 0 | 0 | %100 |
| 16 | M13 | Z | .508 | .508 | 0 | %100 |
| 17 | M15 | X | 0 | 0 | 0 | %100 |
| 18 | M15 | Z | .85 | .85 | 0 | %100 |
| 19 | M21 | X | 0 | 0 | 0 | %100 |
| 20 | M21 | Z | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 72 : Structure Wm (210 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | -.117 | -.117 | 0 | %100 |
| 2 | M3 | Z | .203 | .203 | 0 | %100 |
| 3 | M4 | X | -.302 | -.302 | 0 | %100 |
| 4 | M4 | Z | .524 | .524 | 0 | %100 |
| 5 | M5 | X | -.319 | -.319 | 0 | %100 |
| 6 | M5 | Z | .552 | .552 | 0 | %100 |
| 7 | MP1A | X | -.311 | -.311 | 0 | %100 |
| 8 | MP1A | Z | .538 | .538 | 0 | %100 |
| 9 | MP4A | X | -.311 | -.311 | 0 | %100 |
| 10 | MP4A | Z | .538 | .538 | 0 | %100 |
| 11 | MP3A | X | -.311 | -.311 | 0 | %100 |
| 12 | MP3A | Z | .538 | .538 | 0 | %100 |
| 13 | MP2A | X | -.376 | -.376 | 0 | %100 |
| 14 | MP2A | Z | .651 | .651 | 0 | %100 |
| 15 | M13 | X | -.254 | -.254 | 0 | %100 |
| 16 | M13 | Z | .44 | .44 | 0 | %100 |
| 17 | M15 | X | -.319 | -.319 | 0 | %100 |
| 18 | M15 | Z | .552 | .552 | 0 | %100 |
| 19 | M21 | X | -.088 | -.088 | 0 | %100 |
| 20 | M21 | Z | .152 | .152 | 0 | %100 |

## Member Distributed Loads (BLC 73 : Structure Wm (240 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | -.609 | -.609 | 0 | %100 |
| 2 | M3 | Z | .352 | .352 | 0 | %100 |
| 3 | M4 | X | -.524 | -.524 | 0 | %100 |
| 4 | M4 | Z | .302 | .302 | 0 | %100 |
| 5 | M5 | X | -.184 | -.184 | 0 | %100 |
| 6 | M5 | Z | .106 | .106 | 0 | %100 |
| 7 | MP1A | X | -.538 | -.538 | 0 | %100 |
| 8 | MP1A | Z | .311 | .311 | 0 | %100 |
| 9 | MP4A | X | -.538 | -.538 | 0 | %100 |
| 10 | MP4A | Z | .311 | .311 | 0 | %100 |

## Member Distributed Loads (BLC 73 : Structure Wm (240 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 11 | MP3A | X | -.538 | -.538 | 0 | %100 |
| 12 | MP3A | Z | .311 | .311 | 0 | %100 |
| 13 | MP2A | X | -.651 | -.651 | 0 | %100 |
| 14 | MP2A | Z | .376 | .376 | 0 | %100 |
| 15 | M13 | X | -.44 | -.44 | 0 | %100 |
| 16 | M13 | Z | .254 | .254 | 0 | %100 |
| 17 | M15 | X | -.184 | -.184 | 0 | %100 |
| 18 | M15 | Z | .106 | .106 | 0 | %100 |
| 19 | M21 | X | -.456 | -.456 | 0 | %100 |
| 20 | M21 | Z | .263 | .263 | 0 | %100 |

## Member Distributed Loads (BLC 74 : Structure Wm (270 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | -.938 | -.938 | 0 | %100 |
| 2 | M3 | Z | 0 | 0 | 0 | %100 |
| 3 | M4 | X | -.605 | -.605 | 0 | %100 |
| 4 | M4 | Z | 0 | 0 | 0 | %100 |
| 5 | M5 | X | 0 | 0 | 0 | %100 |
| 6 | M5 | Z | 0 | 0 | 0 | %100 |
| 7 | MP1A | X | -.621 | -.621 | 0 | %100 |
| 8 | MP1A | Z | 0 | 0 | 0 | %100 |
| 9 | MP4A | X | -.621 | -.621 | 0 | %100 |
| 10 | MP4A | Z | 0 | 0 | 0 | %100 |
| 11 | MP3A | X | -.621 | -.621 | 0 | %100 |
| 12 | MP3A | Z | 0 | 0 | 0 | %100 |
| 13 | MP2A | X | -.752 | -.752 | 0 | %100 |
| 14 | MP2A | Z | 0 | 0 | 0 | %100 |
| 15 | M13 | X | -.508 | -.508 | 0 | %100 |
| 16 | M13 | Z | 0 | 0 | 0 | %100 |
| 17 | M15 | X | 0 | 0 | 0 | %100 |
| 18 | M15 | Z | 0 | 0 | 0 | %100 |
| 19 | M21 | X | -.702 | -.702 | 0 | %100 |
| 20 | M21 | Z | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 75 : Structure Wm (300 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | -.609 | -.609 | 0 | %100 |
| 2 | M3 | Z | -.352 | -.352 | 0 | %100 |
| 3 | M4 | X | -.524 | -.524 | 0 | %100 |
| 4 | M4 | Z | -.302 | -.302 | 0 | %100 |
| 5 | M5 | X | -.184 | -.184 | 0 | %100 |
| 6 | M5 | Z | -.106 | -.106 | 0 | %100 |
| 7 | MP1A | X | -.538 | -.538 | 0 | %100 |
| 8 | MP1A | Z | -.311 | -.311 | 0 | %100 |
| 9 | MP4A | X | -.538 | -.538 | 0 | %100 |
| 10 | MP4A | Z | -.311 | -.311 | 0 | %100 |
| 11 | MP3A | X | -.538 | -.538 | 0 | %100 |
| 12 | MP3A | Z | -.311 | -.311 | 0 | %100 |
| 13 | MP2A | X | -.651 | -.651 | 0 | %100 |
| 14 | MP2A | Z | -.376 | -.376 | 0 | %100 |
| 15 | M13 | X | -.44 | -.44 | 0 | %100 |
| 16 | M13 | Z | -.254 | -.254 | 0 | %100 |
| 17 | M15 | X | -.184 | -.184 | 0 | %100 |
| 18 | M15 | Z | -.106 | -.106 | 0 | %100 |
| 19 | M21 | X | -.456 | -.456 | 0 | %100 |
| 20 | M21 | Z | -.263 | -.263 | 0 | %100 |

## Member Distributed Loads (BLC 76 : Structure Wm (330 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M3 | X | -.117 | -.117 | 0 | %100 |
| 2 | M3 | Z | -.203 | -.203 | 0 | %100 |
| 3 | M4 | X | -.302 | -.302 | 0 | %100 |
| 4 | M4 | Z | -.524 | -.524 | 0 | %100 |
| 5 | M5 | X | -.319 | -.319 | 0 | %100 |
| 6 | M5 | Z | -.552 | -.552 | 0 | %100 |
| 7 | MP1A | X | -.311 | -.311 | 0 | %100 |
| 8 | MP1A | Z | -.538 | -.538 | 0 | %100 |
| 9 | MP4A | X | -.311 | -.311 | 0 | %100 |
| 10 | MP4A | Z | -.538 | -.538 | 0 | %100 |
| 11 | MP3A | X | -.311 | -.311 | 0 | %100 |
| 12 | MP3A | Z | -.538 | -.538 | 0 | %100 |
| 13 | MP2A | X | -.376 | -.376 | 0 | %100 |
| 14 | MP2A | Z | -.651 | -.651 | 0 | %100 |
| 15 | M13 | X | -.254 | -.254 | 0 | %100 |
| 16 | M13 | Z | -.44 | -.44 | 0 | %100 |
| 17 | M15 | X | -.319 | -.319 | 0 | %100 |
| 18 | M15 | Z | -.552 | -.552 | 0 | %100 |
| 19 | M21 | X | -.088 | -.088 | 0 | %100 |
| 20 | M21 | Z | -.152 | -.152 | 0 | %100 |

## Member Area Loads

| Joint A | Joint B | Joint C | Joint D | Direction | Distribution | Magnitude[ksf] |
|---|---|---|---|---|---|---|
| No Data to Print ... | | | | | | |

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

| | Member | Shape | Code Check | Loc[ft] | LC | Shear Check | Loc..... | | LC | phi*Pn... | phi*Pn... | phi*Mn... | phi*Mn..... | | Eqn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | M3 | HSS4X4X3 | .607 | 0 | 9 | .255 | 0 | y | 27 | 10067... | 106812 | 12.662 | 12.662 | 2... | H1-1b |
| 2 | M4 | PIPE_4.0 | .000 | .625 | 5 | .000 | .625 | | 5 | 92775... | 93240 | 10.631 | 10.631 | 1... | H1-1b |
| 3 | M5 | PIPE_3.0 | .496 | 6.667 | 1 | .259 | 6.667 | | 21 | 25150... | 65205 | 5.749 | 5.749 | 1... | H1-1b |
| 4 | MP1A | PIPE_2.0 | .469 | 4 | 33 | .085 | 1.5 | | 27 | 20866... | 32130 | 1.872 | 1.872 | 1... | H1-1b |
| 5 | MP4A | PIPE_2.0 | .235 | 4 | 50 | .081 | 4 | | 4 | 20866... | 32130 | 1.872 | 1.872 | 2... | H1-1b |
| 6 | MP3A | PIPE_2.0 | .349 | 4 | 15 | .110 | 4 | | 16 | 20866... | 32130 | 1.872 | 1.872 | 1... | H1-1b |
| 7 | MP2A | PIPE_2.5 | .394 | 4 | 21 | .138 | 2.75 | | 16 | 37773... | 50715 | 3.596 | 3.596 | 2... | H1-1b |
| 8 | M13 | PIPE_2.0 | .119 | 2 | 7 | .059 | 2 | | 4 | 28843... | 32130 | 1.872 | 1.872 | 1 | H1-1b |
| 9 | M15 | PIPE_3.0 | .574 | 6.667 | 7 | .234 | 6.667 | | 21 | 25150... | 67068 | 5.913 | 5.913 | 1... | H1-1b |
| 10 | M21 | HSS3X3X4 | .582 | 0 | 3 | .189 | 0 | y | 27 | 89219... | 101016 | 8.556 | 8.556 | 2... | H1-1b |

## Envelope Joint Reactions

| | Joint | | X [lb] | LC | Y [lb] | LC | Z [lb] | LC | MX [k-ft] | LC | MY [k-ft] | LC | MZ [k-ft] | LC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | N1 | max | 1603.554 | 10 | 1414.084 | 18 | 1913.231 | 1 | -1.603 | 12 | 5.863 | 10 | 2.305 | 27 |
| 2 | | min | -1484.407 | 4 | 545.92 | 1 | -936.07 | 7 | -4.362 | 18 | -5.436 | 3 | -.956 | 50 |
| 3 | N38 | max | 521.41 | 11 | 878.28 | 24 | 1072.795 | 1 | -.977 | 7 | 3.481 | 10 | 1.212 | 27 |
| 4 | | min | -663.286 | 29 | 318.851 | 7 | -2049.926 | 7 | -2.385 | 13 | -3.921 | 3 | -.531 | 50 |
| 5 | Totals: | max | 2092.348 | 10 | 2269.481 | 15 | 2986.026 | 1 | | | | | | |
| 6 | | min | -2092.342 | 4 | 993.596 | 9 | -2985.996 | 7 | | | | | | |

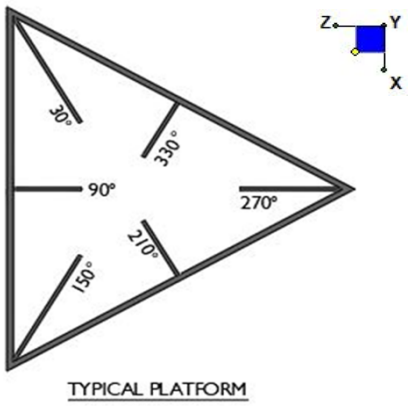
| | | | |
|---|---|---|---|
| Client: | VERIZON WIRELESS | Date: | 8/25/2021 |
| Site Name: | PRESTON CITY CT | | |
| Project No. | 21777344A | | |
| Title: | Mount Analysis | Page: | 1 |

Version 3.1

# I. Mount-to-Tower Connection Check - Proposed

*RISA Model Data*

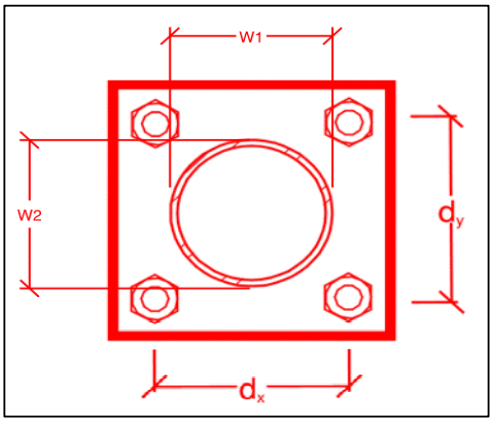
| Nodes *(labeled per RISA)* | Orientation *(per graphic of typical platform)* |
|---|---|
| N38 | 90 |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |



TYPICAL PLATFORM

*Tower Connection Bolt Checks*

| | |
|---|---|
| Any moment resistance?: | yes |
| 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 (kips): | 16.6 |
| Required Shear Strength (kips): | 5.8 |
| Tensile Strength / bolt (kips): | 20.7 |
| Shear Strength / bolt (kips): | 12.4 |
| Tensile Capacity Overall: | **20.0%*** |
| Shear Capacity Overall: | **11.6%** |




**Note: Tension reduction not required if tension or shear capacity < 30%*

*Tower Connection Plate and Weld Check*

| | |
|---|---|
| Connecting Standoff Member Shape: | Rect |
| Plate Width (in): | 8.25 |
| Plate Height (in): | 8.25 |
| W1 (in): | 3 |
| W2 (in): | 3 |
| Fy (ksi, plate): | 36 |
| $t_{Plate}$ (in): | 0.75 |
| Weld Size (1/16 in): | 5 |
| Phi*Rn (kip/in): | 6.96 |
| Required Weld Strength (kip/in): | 4.10 |
| Plate Bending Capacity: | **40.3%** |
| Weld Capacity: | **59.0%** |

*Max Plate Bending Strengths*

| | |
|---|---|
| $Mu_{xx}$ *(kip-in)* : | 3.2 |
| Phi*$Mn_{xx}$ *(kip-in)* : | 37.6 |
| $Mu_{yy}$ *(kip-in)* : | 12.0 |
| Phi*$Mn_{yy}$ *(kip-in)* : | 37.6 |

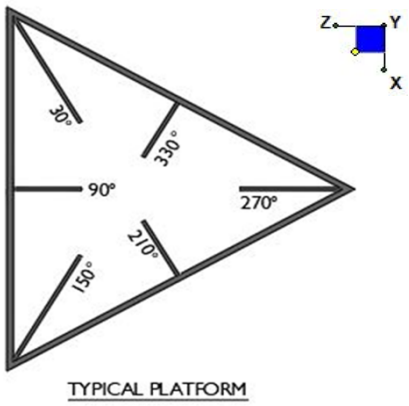
| | | | |
|---|---|---|---|
| Client: | VERIZON WIRELESS | Date: | 8/25/2021 |
| Site Name: | PRESTON CITY CT | | |
| Project No. | 21777344A | | |
| Title: | Mount Analysis | Page: | 1 |

Version 3.1

# I. Mount-to-Tower Connection Check - Existing

*RISA Model Data*

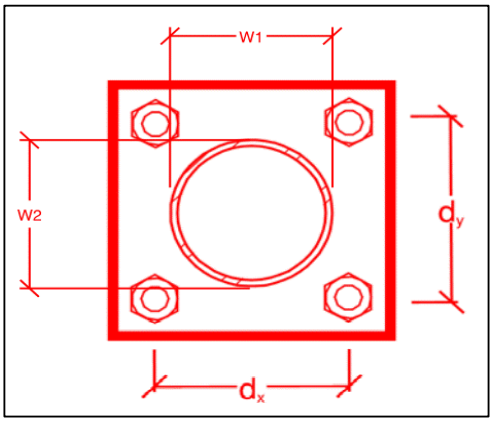
| Nodes *(labeled per RISA)* | Orientation *(per graphic of typical platform)* |
|---|---|
| N1 | 90 |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |



TYPICAL PLATFORM

*Tower Connection Bolt Checks*

| | |
|---|---|
| Any moment resistance?: | yes |
| 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): | 0.5 |
| Required Tensile Strength (kips): | 25.0 |
| Required Shear Strength (kips): | 10.4 |
| Tensile Strength / bolt (kips): | 13.3 |
| Shear Strength / bolt (kips): | 8.0 |
| Tensile Capacity Overall: | **47.1%*** |
| Shear Capacity Overall: | **32.8%** |




**Note: Tension reduction not required if tension or shear capacity < 30%*

*Tower Connection Plate and Weld Check*

| | |
|---|---|
| Connecting Standoff Member Shape: | Rect |
| Plate Width (in): | 8 |
| Plate Height (in): | 8 |
| W1 (in): | 4 |
| W2 (in): | 4 |
| Fy (ksi, plate): | 36 |
| $t_{Plate}$ (in): | 0.625 |
| Weld Size (1/16 in): | 4 |
| Phi*Rn (kip/in): | 5.57 |
| Required Weld Strength (kip/in): | 3.50 |
| Plate Bending Capacity: | **61.1%** |
| Weld Capacity: | **62.8%** |

*Max Plate Bending Strengths*

| | |
|---|---|
| $Mu_{xx}$ *(kip-in)* : | 3.5 |
| Phi*$Mn_{xx}$ *(kip-in)* : | 25.3 |
| $Mu_{yy}$ *(kip-in)* : | 11.9 |
| Phi*$Mn_{yy}$ *(kip-in)* : | 25.3 |

# Mount Desktop – Post Modification Inspection (PMI) Report Requirements

## Documents & Photos Required from Contractor – Mount Modification

**Purpose** – to provide Maser Consulting Connecticut 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 modification was completed in accordance with the modification drawings.
- Contractor shall relay any data that can impact the performance of the mount or the mount modification, this includes safety issues.

**Base Requirements:**

- Any special photos outside of the standard requirements will be indicated on the drawings
- Provide "as built drawings" showing contractor's name, preparer's signature, and date. Any deviations from the drawings (proposed modification) must be shown.
- Notation that all hardware was properly installed, and the existing hardware was inspected for any issues.
- Verification that loading is as communicated in the modification drawings. NOTE If loading is different than what is conveyed in the modification drawing contact Maser Consulting Connecticut immediately.
- Each photo should be time and date stamped
- Photos should be high resolution and submitted in a Zip File and should be organized in the file structure as depicted in Schedule A attached.
- 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.
- The photos in the file structure should be uploaded **to** https://pmi.vzwsmart.com as depicted on the drawings

**Photo Requirements:**

- *Base and "During Installation Photos"*
  - Base pictures include
    - Photo of Gate Signs showing the tower owner, site name, and number
    - Photo of carrier shelter showing the carrier site name and number if available
    - Photos of the galvanizing compound and/or paint used (if applicable), clearly showing the label and name
  - "During Installation Photos if provided - must be placed only in this folder
- *Photos taken at ground level*
  - Overall tower structure before and after installation of the modifications
  - Photos of the appropriate mount before and after installation of the modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed

- *Photos taken at Mount Elevation*
    - Photos showing each individual sector before and also after installation of modifications. Each entire sector must be in one photo to show in the inter-connection of members.
        - These photos should also certify that the placement and geometry of the equipment on the mount is as depicted on the sketch and table in the mount analysis
    - Close-up photos of each installed modification per the modification drawings; pictures should also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
    - Photos showing the measurements of the installed modification member sizes (i.e. lengths, widths, depths, diameters, thicknesses)
    - Photos showing the elevation or distances of the installed modifications from the appropriate reference locations shown in the modification drawings
    - Photos showing the installed modifications onto the tower with tape drop measurements (if applicable) (i.e. ring/collar mounts, tie-backs, V-bracing kits, etc.); if the existing mount elevation needs to be changed according to the modification drawings, a tape drop measurement shall be provided before the elevation change
    - Photos showing the safety climb wire rope above and below the mount prior to modification.
    - Photos showing the climbing facility and safety climb if present.

**Material Certification:**

- Materials utilized must be as per specification on the drawings or the equivalent as validated by Maser Consulting Connecticut.
    - If the drawings are as specified on the drawings
        - The contractor should provide the packing list or the materials utilized to perform the mount modification
    - If an equivalent is utilized
        - It is required that the Maser Consulting Connecticut certification of such is included in the contractor submission package. There may be an additional charge for this certification if the equivalent submission doesn't meet specifications as prescribed in the drawings.
- The contractor must certify that the materials meet these specifications by one of these methods.

☐ The Material utilized was as specified on the Maser Consulting Connecticut Mount Modification Drawings and included in the Material certification folder is a packing list or invoice for these materials

☐ The material utilized was an "equivalent" and included as part of the contractor submission is the Maser Consulting Connecticut certification, invoices, or specifications validating accepted status

Certifying Individual: Company _____
Name _____
Signature _____

**Antenna & equipment placement and Geometry Confirmation:**

- The contractor must certify that the antenna & equipment placement and geometry is in accordance with the antenna placement diagrams as included in this mount analysis.

☐ The contractor certifies that the photos support and the equipment on the mount is as depicted on the antenna placement diagrams as included in this mount analysis.

☐ The contractor notes that the equipment on the mount is not in accordance with the antenna placement diagrams and has accordingly marked up the diagrams or provided a diagram outlining the differences.

Certifying Individual: Company _____

Name _____

Signature _____

**Special Instructions / Validation as required from the MA or Mod Drawings:**

**Issue:**

| |
|---|
| Contractor shall install safety climb wire rope guide (Part #: Site Pro 1 - 120-203/317 or EOR approved equal) in locations where the wire rope is rubbing against mount to tower attachments. Contractor shall provide photos of safety climb wire rope guide installation. |

**Response:**

| |
|---|
| |

**Schedule A – Photo & Document File Structure**

- VzW Site Number / Name
  - Base & “During Installation” Photos
  - Pre-Installation Photos
    - Alpha
    - Beta
    - Gamma
    - Ground Level
    - Tape Drop
  - Post-Installation Photos
    - Alpha
    - Beta
    - Gamma
    - Ground Level
    - Tape Drop
    - Photos of climbing facility and safety climb – If Present
  - Certifications – Submission of this document including certifications
  - Specific Required Additional Photos

**Structure: 467767-VZW - PRESTON CITY CT**

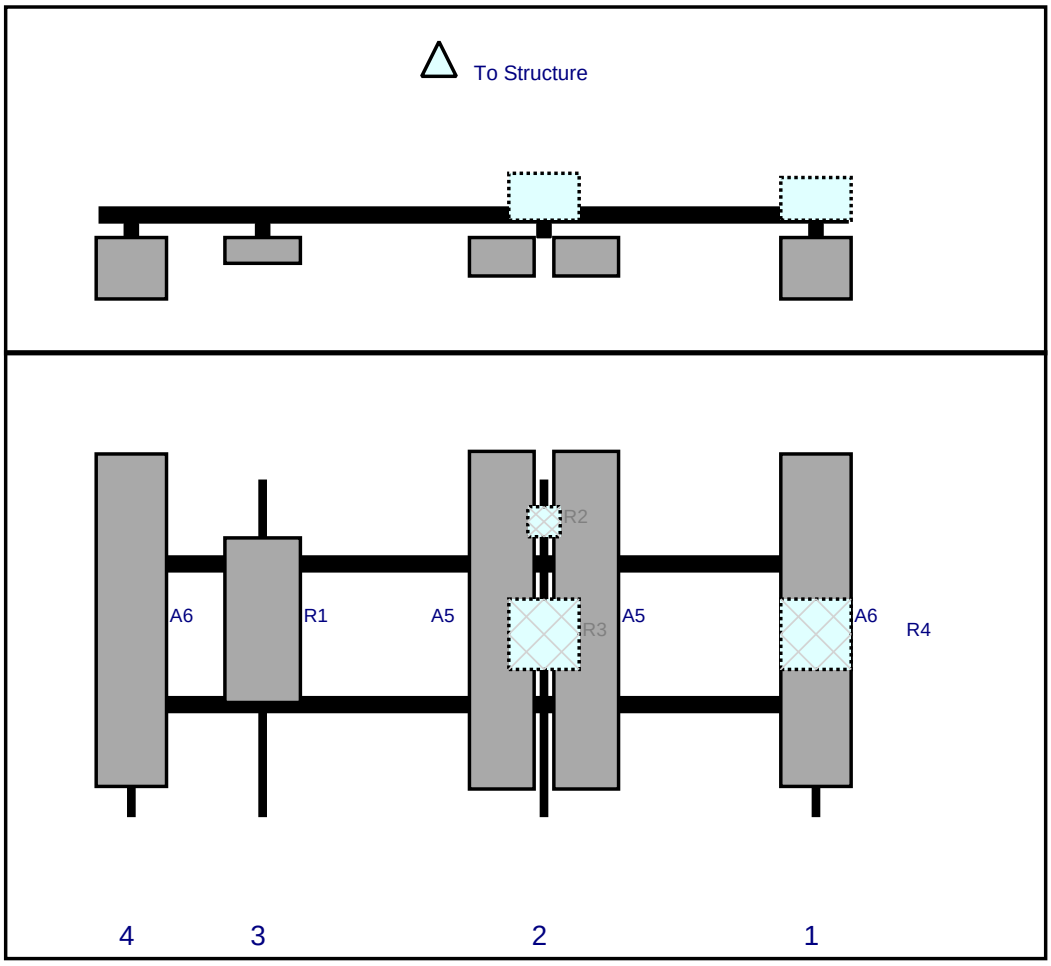
Sector: **A** 8/25/2021

Structure Type: Monopole 10052223

Mount Elev: 132.00 Page: 1

**Plan View**

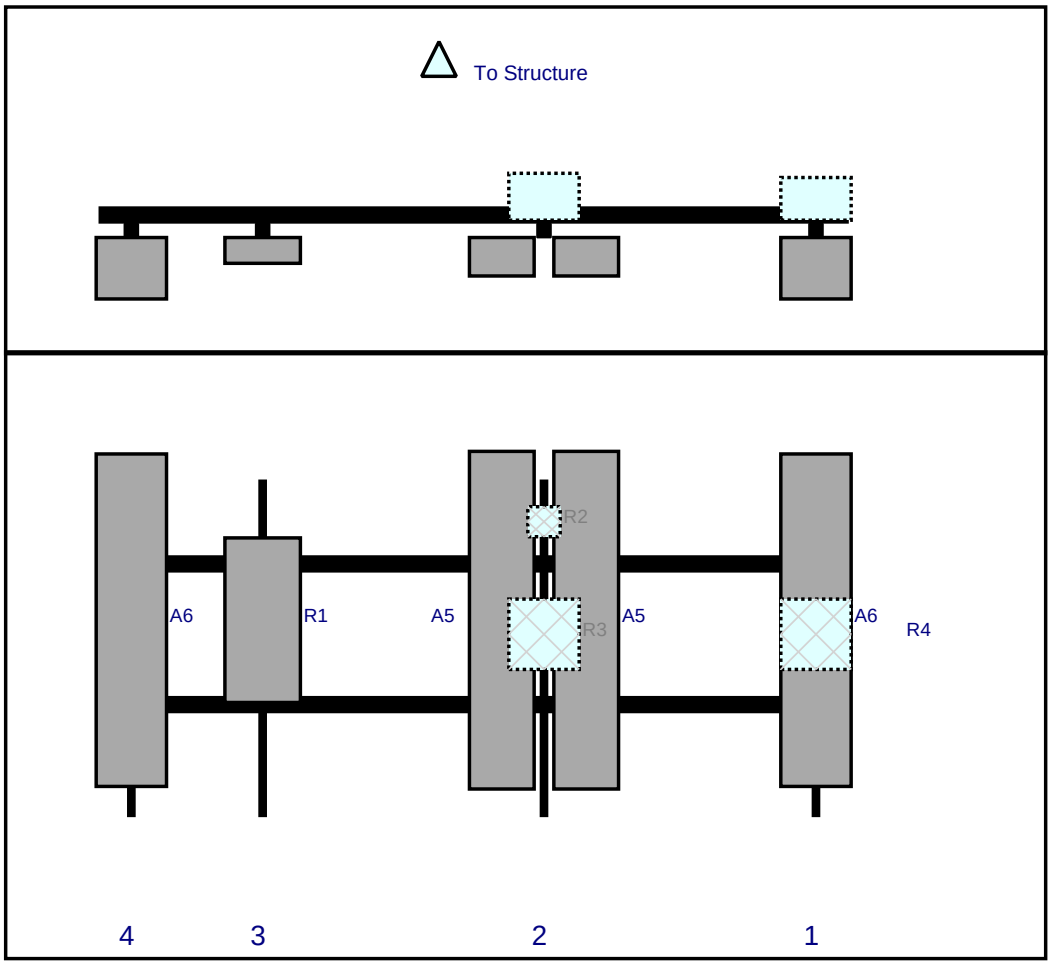
**Front View**
Looking at Structure




| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| A6 | LPA-80063/6CF | 70.9 | 15 | 153 | 1 | a | Front | 30 | 0 | Retained | |
| R4 | RF4440d-13A | 15 | 15 | 153 | 1 | a | Behind | 33 | 0 | Added | |
| A5 | JAHH-65B-R3B | 72 | 13.8 | 95 | 2 | a | Front | 30 | 9 | Retained | |
| A5 | JAHH-65B-R3B | 72 | 13.8 | 95 | 2 | b | Front | 30 | -9 | Retained | |
| R2 | CBC78T-DS-43 | 6.4 | 6.9 | 95 | 2 | a | Behind | 9 | 0 | Added | |
| R3 | RF4439d-25A | 15 | 15 | 95 | 2 | a | Behind | 33 | 0 | Added | |
| R1 | MT6407-77A | 35.1 | 16.1 | 35 | 3 | a | Front | 30 | 0 | Added | |
| A6 | LPA-80063/6CF | 70.9 | 15 | 7 | 4 | a | Front | 30 | 0 | Retained | |

**Plan View**

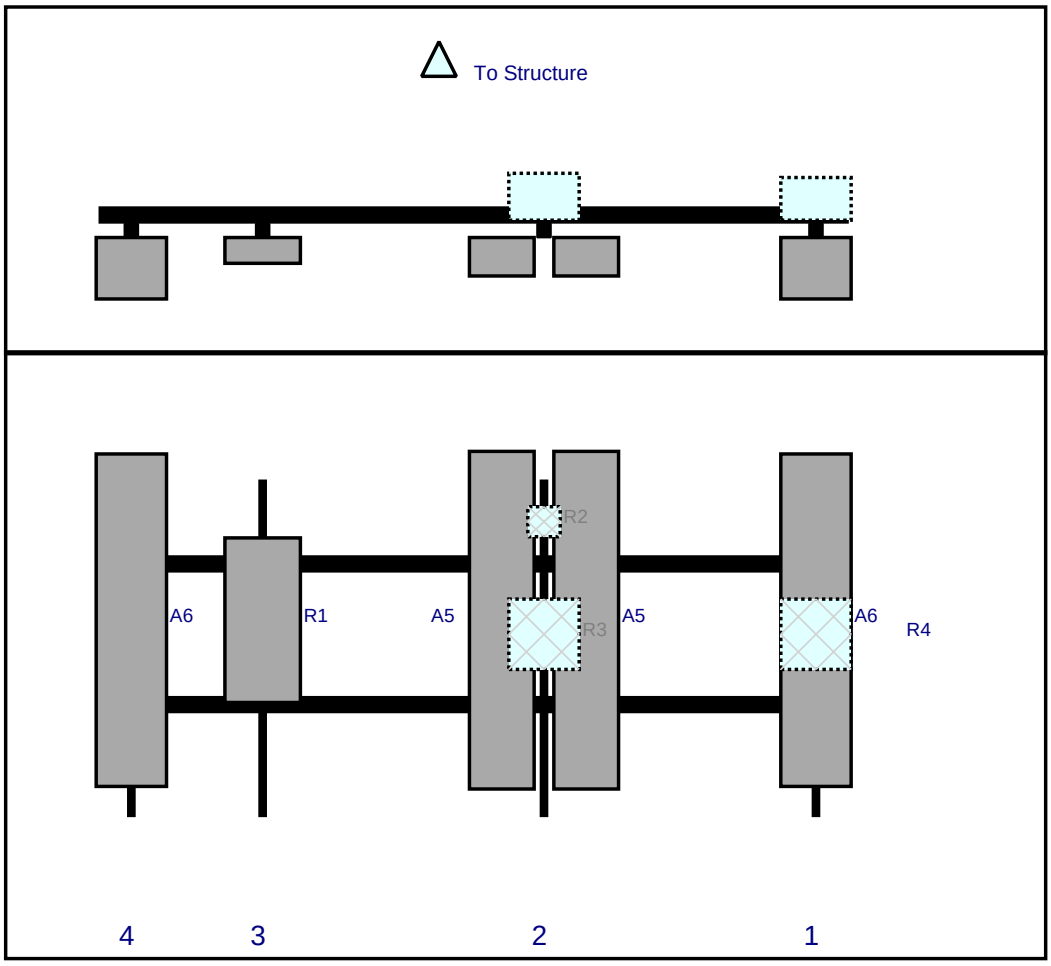
**Front View**
Looking at Structure




| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| A6 | LPA-80063/6CF | 70.9 | 15 | 153 | 1 | a | Front | 30 | 0 | Retained | |
| R4 | RF4440d-13A | 15 | 15 | 153 | 1 | a | Behind | 33 | 0 | Added | |
| A5 | JAHH-65B-R3B | 72 | 13.8 | 95 | 2 | a | Front | 30 | 9 | Retained | |
| A5 | JAHH-65B-R3B | 72 | 13.8 | 95 | 2 | b | Front | 30 | -9 | Retained | |
| R2 | CBC78T-DS-43 | 6.4 | 6.9 | 95 | 2 | a | Behind | 9 | 0 | Added | |
| R3 | RF4439d-25A | 15 | 15 | 95 | 2 | a | Behind | 33 | 0 | Added | |
| A6 | LPA-80063/6CF | 70.9 | 15 | 7 | 4 | a | Front | 30 | 0 | Retained | |
| R1 | MT6407-77A | 35.1 | 16.1 | 35 | 3 | a | Front | 30 | 0 | Added | |

**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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| A5 | JAHH-65B-R3B | 72 | 13.8 | 95 | 2 | a | Front | 30 | 9 | Retained | |
| A5 | JAHH-65B-R3B | 72 | 13.8 | 95 | 2 | b | Front | 30 | -9 | Retained | |
| R2 | CBC78T-DS-43 | 6.4 | 6.9 | 95 | 2 | a | Behind | 9 | 0 | Added | |
| R3 | RF4439d-25A | 15 | 15 | 95 | 2 | a | Behind | 33 | 0 | Added | |
| R1 | MT6407-77A | 35.1 | 16.1 | 35 | 3 | a | Front | 30 | 0 | Added | |
| A6 | LPA-80063/6CF | 70.9 | 15 | 7 | 4 | a | Front | 30 | 0 | Retained | |
| A6 | LPA-80063/6CF | 70.9 | 15 | 153 | 1 | a | Front | 30 | 0 | Retained | |
| R4 | RF4440d-13A | 15 | 15 | 153 | 1 | a | Behind | 33 | 0 | Added | |

# Maser Consulting Connecticut

| | | |
|---|---|---|
| ***Site Information*** | Site ID: | 467767-VZW / PRESTON CITY CT |
| | Site Name: | PRESTON CITY CT |
| | Carrier Name: | Verizon Wireless |
| | Address: | 101 Pierce Road<br>Preston City, Connecticut 06365<br>New London County |
| | Latitude: | 41.538183° |
| | Longitude: | -71.951667° |
| ***Structure Information*** | Tower Type: | 155-Ft Monopole |
| | Mount Type: | 13.33-Ft T-Arm |

To Whom It May Concern,

We respectfully submit the above referenced Antenna Mount Structural Analysis report in conformance with ANSI/TIA-222-H, Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures.

The 2015 International Building Code states that, in Section 3108, telecommunication towers shall be designed and constructed in accordance with the provisions of TIA-222. The TIA-222-H is the latest revision of the TIA-222 Standard, effective as of January 01, 2018.

As with all ANSI standards and engineering best practice is to apply the most current revision of the standard. This ensures the engineer is applying all updates. As an example, the TIA-222-H standard includes updates to bring it in line with the latest AISC and ACI standards and it also incorporates the latest wind speed map by ASCE 7 based on updated studies of the wind data.

The TIA-222-H standard clarifies these specific requirements for the antenna mount analysis such as modeling method, seismic analysis, 30-degree increment wind direction and maintenance loading. Therefore, it is our opinion that TIA-222-H is the most appropriate standard for antenna mount structural analysis and is acceptable for use at this site to ensure the engineer is taking into account the most current engineering standard available.

Sincerely,

Digitally signed by Justin Linette
Date: 2021.08.26 15:09:53-04'00'

Justin Linette, PE
Technical Specialist