

September 12, 2023

Melanie A. Bachman
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

**RE: Notice of Exempt Modification for Verizon
Crown #806360_Crown_VZW
180 & 184 North Main Street, Branford, CT 06405
Latitude: 41° 17' 22.77"/Longitude: -72° 48' 42.22"**

Dear Ms. Bachman:

Verizon Wireless is requesting to file an exempt modification for an existing tower located at 180 & 184 North Main Street, Branford, CT 06405. The property is owned by Three M + M LTD and the tower is owned by Crown Castle. Verizon now intends to add one (1) interference mitigation filters to be installed at the 100-foot level of the tower of the 110-foot monopole. This modification may include B2, B5, B17, B14, B29, B30, B66 & n77 hardware that is 4G(LTE) and/or 5GNR capable through remote software configuration and either or both services may be turned on or off at various times.

Panned Modification:

Tower:

Installed New:

(1) Kaelus BSF0020F3V1-1 Twin Bandstop 900MHZ Interference Mitigation Filter

The proposed work in this application only pertains to the installation of interference mitigation filter(s) and does not involve any additional equipment that may be called out in the Mount Analysis and/or in Table 1 of the Structural Analysis Reports.

The facility was approved by the Connecticut Siting Council, Docket #122, on May 3, 1990. Please see attached.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to First Selectman James B. Cosgrove and Town Planner Harry Smith for the municipality. A copy is also being sent to Three M + M LTD as the property owner and Crown Castle is the tower owner. The proposed modifications will not result in an increase in the height of the existing tower.

1. The proposed modifications will not require the extension of the site boundary.
2. The proposed modification will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.

The Foundation for a Wireless World.

CrownCastle.com

Melanie A. Bachman

Page 2

3. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communication Commission safety standard.
4. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
5. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, Verizon respectfully submits that the proposed modifications to the above-reference telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2). Please send approval/rejection letter to Attn: Domenica Tatasciore.

Sincerely,



Domenica Tatasciore
Site Acquisition Specialist
1800 W. Park Drive
Westborough, MA 01581
(508) 621-9161/ Domenica.Tatasciore@crowncastle.com

Attachments

cc:

First Selectman James B. Cosgrove
Town of Branford
1019 Main Street
Branford, CT 06405
203-488-8394

Town Planner Harry Smith
Town of Branford
1019 Main Street
Branford, CT 06405
203-488-1255

Three M + M LTD, Property Owner
c/o Michael J. Infantino, Registered Agent
34 Sachem Road
Branford, CT 06405
203-488-8905

Crown Castle, Tower Owner

CROWN CASTLE USA INC.
2000 CORPORATE DRIVE
CANONSBURG PA 15317
724-416-2000

JPMorgan Chase Bank, N.A.
DALLAS TX
32-61/1110

2892715

SIX HUNDRED TWENTY FIVE AND 00/100*****

DATE 09/06/23

\$*****625.00

Pay To Connecticut Siting Council
The Ten Franklin Square
Order Of New Britain CT 06051

2695915

Rolt A. Cole VP and Controller
[Signature] ASST. CONTROLLER

VOID AFTER 180 DAYS

⑈ 2892715⑈ ⑆ 111000614⑆ 103410453⑈

Check No 2892715

Check Date 09/06/23

Stub 1 of 1

| | | | | |
|------------------------|----------|--------------|--------|--------|
| CKRQ 806360 654624 ZAP | 09/05/23 | Invoice Summ | 625.00 | 625.00 |
| | | | 625.00 | 625.00 |

From: TrackingUpdates@fedex.com
To: [Tatasciore, Domenica](#)
Subject: FedEx Shipment 773318247292: Your package has been delivered
Date: Tuesday, September 12, 2023 10:17:28 AM

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

FedEx



Hi. Your package was
delivered Tue, 09/12/2023 at
10:08am.



Delivered to 1019 MAIN ST, BRANFORD, CT 06405
Received by C.LTK

[OBTAIN PROOF OF DELIVERY](#)

How was your delivery ?



| | |
|------------------------------|--|
| TRACKING NUMBER | 773318247292 |
| FROM | Crown Castle 1800 West Park Drive Suite 200 WESTBOROUGH, MA, US, 01581 |
| TO | Town of Branford First Selectman James B. Cosgrove 1019 Main Street BRANFORD, CT, US, 06405 |
| REFERENCE | 799001.7680 |
| SHIPPER REFERENCE | 799001.7680 |
| SHIP DATE | Mon 9/11/2023 05:18 PM |
| DELIVERED TO | Receptionist/Front Desk |
| PACKAGING TYPE | FedEx Envelope |
| ORIGIN | WESTBOROUGH, MA, US, 01581 |
| DESTINATION | BRANFORD, CT, US, 06405 |
| NUMBER OF PIECES | 1 |
| TOTAL SHIPMENT WEIGHT | 0.50 LB |
| SERVICE TYPE | FedEx Priority Overnight |

Wondering when a package will arrive?

Enter your tracking number to see your estimated delivery time within a 4-hour window.

[TRACK A PACKAGE](#)

From: TrackingUpdates@fedex.com
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Delivered to 1019 MAIN ST, BRANFORD, CT 06405
Received by C.LTK

OBTAIN PROOF OF DELIVERY

How was your delivery ?



| | |
|------------------------------|---|
| TRACKING NUMBER | 773318280626 |
| FROM | Crown Castle 1800 West Park Drive Suite 200 WESTBOROUGH, MA, US, 01581 |
| TO | Town of Branford Town Planner Harry Smith 1019 Main Street BRANFORD, CT, US, 06405 |
| REFERENCE | 799001.7680 |
| SHIPPER REFERENCE | 799001.7680 |
| SHIP DATE | Mon 9/11/2023 05:18 PM |
| DELIVERED TO | Receptionist/Front Desk |
| PACKAGING TYPE | FedEx Envelope |
| ORIGIN | WESTBOROUGH, MA, US, 01581 |
| DESTINATION | BRANFORD, CT, US, 06405 |
| NUMBER OF PIECES | 1 |
| TOTAL SHIPMENT WEIGHT | 0.50 LB |
| SERVICE TYPE | FedEx Priority Overnight |

Wondering when a package will arrive?

Enter your tracking number to see your estimated delivery time within a 4-hour window.

[TRACK A PACKAGE](#)

From: TrackingUpdates@fedex.com
To: [Tatasciore, Domenica](#)
Subject: FedEx Shipment 773318314157: Your package has been delivered
Date: Tuesday, September 12, 2023 11:34:01 AM

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Hi. Your package was
delivered Tue, 09/12/2023 at
11:27am.



Delivered to 34 SACHEM RD, BRANFORD, CT 06405

[OBTAIN PROOF OF DELIVERY](#)



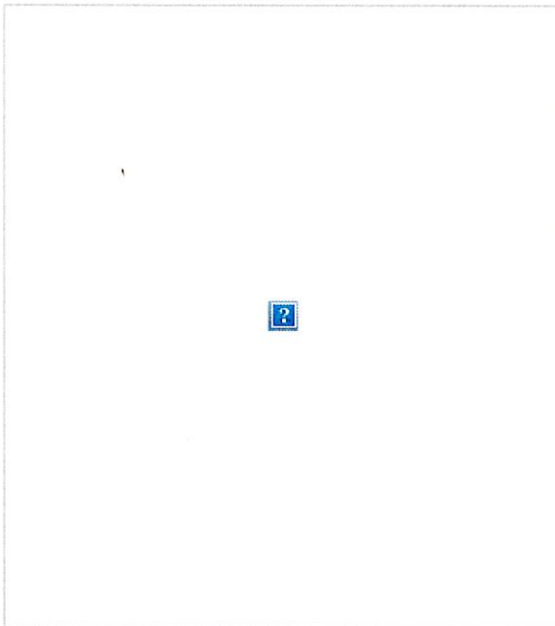
Delivery picture not showing? [View](#) in browser.

How was your delivery ?



| | |
|--------------------------|---|
| TRACKING NUMBER | 773318314157 |
| FROM | Crown Castle 1800 West Park Drive Suite 200 WESTBOROUGH, MA, US, 01581 |
| TO | Three M + M LTD Michael J. Infantino, Agent 34 Sachem Road BRANFORD, CT, US, 06405 |
| REFERENCE | 799001.7680 |
| SHIPPER REFERENCE | 799001.7680 |
| SHIP DATE | Mon 9/11/2023 05:18 PM |
| DELIVERED TO | Residence |
| PACKAGING TYPE | FedEx Envelope |
| ORIGIN | WESTBOROUGH, MA, US, 01581 |

| | |
|-----------------------|--------------------------|
| DESTINATION | BRANFORD, CT, US, 06405 |
| SPECIAL HANDLING | Residential Delivery |
| NUMBER OF PIECES | 1 |
| TOTAL SHIPMENT WEIGHT | 0.50 LB |
| SERVICE TYPE | FedEx Priority Overnight |



Wondering when a package will arrive?

Enter your tracking number to see your estimated delivery time within a 4-hour window.

[TRACK A PACKAGE](#)

FOLLOW FEDEX



Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at approximately 10:33 AM CDT 09/12/2023.

All weights are estimated.

To track the latest status of your shipment, click on the tracking number above.

Standard transit is the date and time the package is scheduled to be delivered by, based on the selected service, destination and ship date. Limitations and exceptions may apply. Please see the FedEx Service Guide for terms and conditions of service, including the FedEx Money-Back Guarantee, or contact your FedEx Customer Support representative.

BH
BI

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

136 Main Street, Suite 401
New Britain, Connecticut 06051
Phone: 827-7682



Gloria Dibble Pond
Chairperson

May 3, 1990

COMMISSIONERS

Energy/Telecommunications

Peter G. Boucher
Leslie Carothers

Metro Mobile CTS of New Haven, Inc.

50 Rockland Road
South Norwalk, CT 06854

ATTN: Phillip Mayberry
Vice Pres. & Gen. Mgr.

Hazardous Waste/Low-level
Radioactive Waste

Frederick G. Adams
Bernard R. Sullivan

RE: DOCKET NO. 122 - Metro Mobile CTS of New Haven, Inc., Certificate of Environmental Compatibility and Public Need for the construction, operation, and maintenance of a cellular telephone tower and associated equipment in the Town of Branford, Connecticut.

COUNCIL MEMBERS

Harry E. Covey
Mortimer A. Gelston
Daniel P. Lynch, Jr.
Paulann H. Sheets
William H. Smith
Colin C. Tait

Dear Mr. Mayberry:

Joel M. Rinebold
Executive Director

At a meeting of the Connecticut Siting Council (Council) on April 30, 1990, the Council considered and approved the Development and Management (D&M) Plan for the Branford facility with the condition that the three recommendations by the Town of Branford regarding parking, driveway improvements, and landscaping be implemented by Metro Mobile. A copy of the Town's letter outlining its concerns and recommendations are enclosed for your information. Also enclosed for your reference is a copy of the staff report for this D&M Plan.

Stanley J. Modzelesky
Executive Assistant

This approval applies only to the Branford facility. Modifications to this D&M Plan require advance Council notification and approval. Please notify the Council when construction is complete.

Very truly yours,

Gloria Dibble Pond
JMR:GDP:cp

Enclosures (2)

cc: Parties of Record
Council members

4384E



Property Information

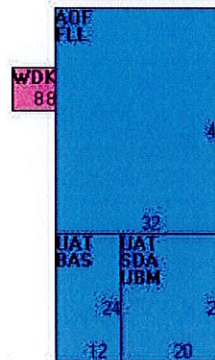
| | |
|-------------------|--|
| Property Location | 180-182 NO MAIN ST |
| Owner | THREE M + M LTD PART |
| Co-Owner | na |
| Mailing Address | 2040 FOAL LA IVY FARM CHARLOTTESVILL VA 22901 |
| Land Use | 3321 AUTO REPR MDL96 |
| Land Class | C |
| Zoning Code | IG-1 |
| Census Tract | |

| | |
|------------------|----------------------------------|
| Neighborhood | 450 |
| Acreage | 1.34 |
| Utilities | Public Water,Public Sewer |
| Lot Setting/Desc | Bus. District Level,Above Street |
| Book / Page | 0468/0305 |

Photo



Sketch



Primary Construction Details

| | |
|-------------------|-----------------|
| Year Built | 1920 |
| Building Desc. | AUTO REPR MDL96 |
| Building Style | Service Shop |
| Building Grade | C - |
| Stories | 1 |
| Occupancy | 1.00 |
| Exterior Walls | Wood Shingle |
| Exterior Walls 2 | NA |
| Roof Style | Gable/Hip |
| Roof Cover | Asphalt |
| Interior Walls | Minim/Masonry |
| Interior Walls 2 | NA |
| Interior Floors 1 | Concr-Finished |
| Interior Floors 2 | NA |

| | |
|------------------|----------------|
| Heating Fuel | Gas |
| Heating Type | Hot Air-no Duc |
| AC Type | None |
| Bedrooms | 0 |
| Full Bathrooms | 0 |
| Half Bathrooms | 0 |
| Extra Fixtures | 0 |
| Total Rooms | 0 |
| Bath Style | NA |
| Kitchen Style | NA |
| Fin Bsmt Area | |
| Fin Bsmt Quality | |
| Bsmt Gar | |
| Fireplaces | |

(*Industrial / Commercial Details)

| | |
|--------------------|---------------|
| Building Use | Ind/Comm |
| Building Condition | P |
| Sprinkler % | NA |
| Heat / AC | NONE |
| Frame Type | WOOD FRAME |
| Baths / Plumbing | AVERAGE |
| Ceiling / Wall | CEIL & MIN WL |
| Rooms / Prtns | AVERAGE |
| Wall Height | 9.00 |
| First Floor Use | NA |
| Foundation | NA |



Town of Branford, CT

Property Listing Report

Map Block Lot

E06/000/001/0002 #

2

Sec #


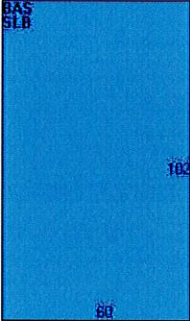
1

PID

837

Account

005970

| | |
|---|---|
| <p>Photo</p>  | <p>Sketch</p>  |
|---|---|

Primary Construction Details

| | |
|-------------------|----------------|
| Year Built | 1920 |
| Building Desc. | Ind/Comm |
| Building Style | Service Shop |
| Building Grade | C - |
| Stories | 1 |
| Occupancy | 1.00 |
| Exterior Walls | Clapboard |
| Exterior Walls 2 | Pre-Fab Wood |
| Roof Style | Gable/Hip |
| Roof Cover | Asphalt |
| Interior Walls | Minim/Masonry |
| Interior Walls 2 | NA |
| Interior Floors 1 | Concr-Finished |
| Interior Floors 2 | NA |

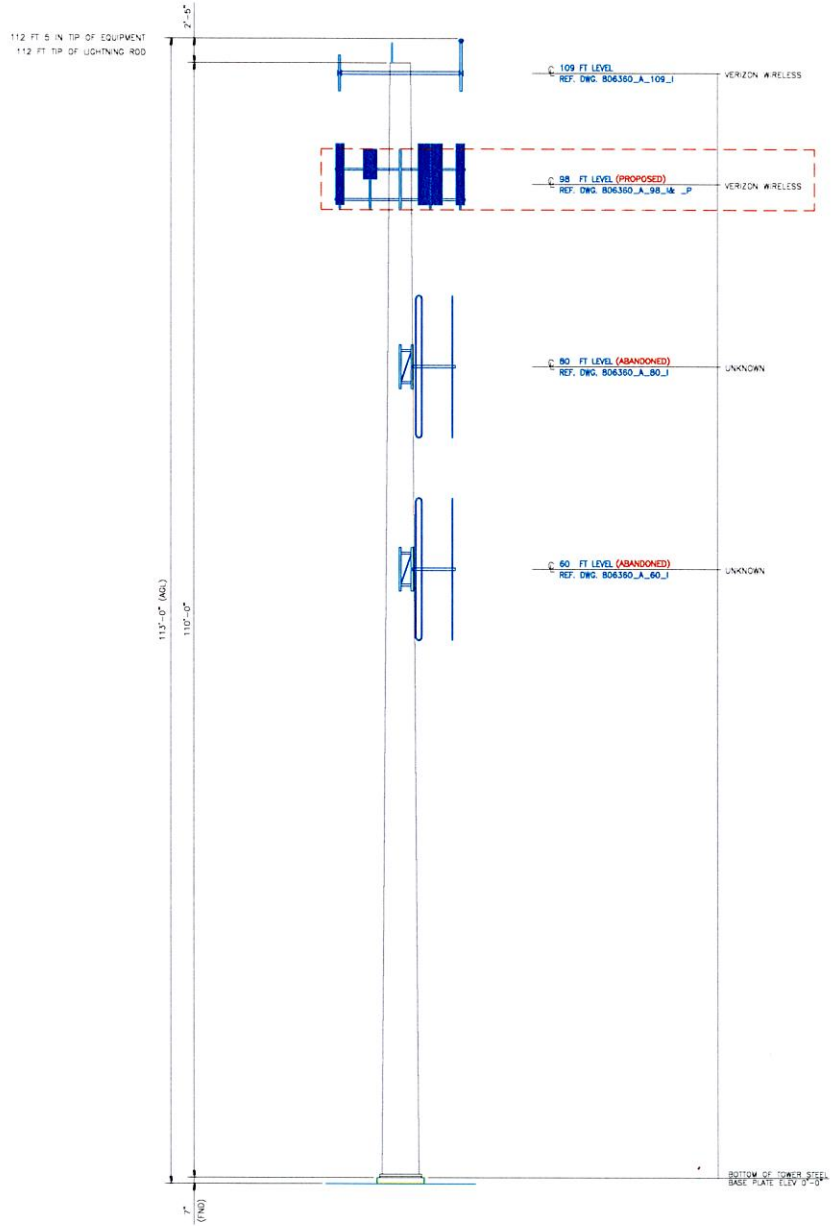
| | |
|------------------|----------------|
| Heating Fuel | Oil |
| Heating Type | Forced Air-Duc |
| AC Type | None |
| Bedrooms | 0 |
| Full Bathrooms | 0 |
| Half Bathrooms | 0 |
| Extra Fixtures | 0 |
| Total Rooms | 0 |
| Bath Style | NA |
| Kitchen Style | NA |
| Fin Bsmt Area | |
| Fin Bsmt Quality | |
| Bsmt Gar | |
| Fireplaces | |

(*Industrial / Commercial Details)

| | |
|--------------------|-----------------|
| Building Use | AUTO REPR MDL96 |
| Building Condition | F |
| Sprinkler % | NA |
| Heat / AC | NONE |
| Frame Type | WOOD FRAME |
| Baths / Plumbing | AVERAGE |
| Ceiling / Wall | CEILING ONLY |
| Rooms / Prtns | AVERAGE |
| Wall Height | 14.00 |
| First Floor Use | NA |
| Foundation | NA |

Sub Areas

| Subarea Type | Gross Area (sq ft) | Living Area (sq ft) | Subarea Type | Gross Area (sq ft) | Living Area (sq ft) |
|--------------|--------------------|---------------------|-------------------|--------------------|---------------------|
| First Floor | 6120 | 6120 | | | |
| Slab | 6120 | 0 | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | Total Area | 12240 | 6120 |



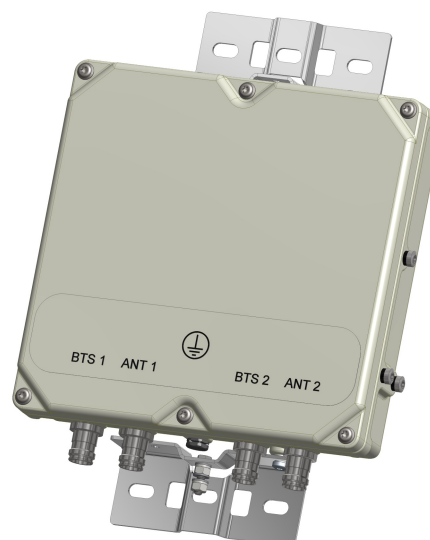
BSF0020F3V1-1

TWIN BANDSTOP 900MHZ INTERFERENCE MITIGATION FILTER

The BSF0020 is ideal for co-located 700, 850 and 900 networks. Utilising a 2.6MHz guardband the BSF0020 provides rejection of the 900 UL band while passing 700/850 UL and DL bands. Capable of being used in an outdoor environment the BSF0020 contains two identical bandstop filters, suitable for 2x2 MIMO configuration, offering excellent insertion loss, group delay and rejection.

FEATURES

- Passes full 700 and 850 bands
- Low insertion loss
- Rejection of 900MHz uplink
- DC/AISG pass
- Twin unit
- Dual twin mounting available



TECHNICAL SPECIFICATIONS

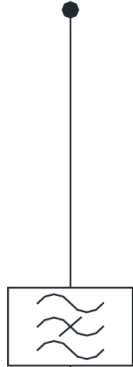
| BAND NAME | 700 PATH / 850 UPLINK PATH | 850 DOWNLINK PATH |
|---|--|-------------------------------|
| Passband | 698 - 849MHz | 869 - 891.5MHz |
| Insertion loss | 0.1dB typical / 0.3dB maximum | 0.5dB typical, 1.45dB maximum |
| Return loss | 24dB typical, 18dB minimum | |
| Maximum input power (Per Port) | 100W average | 200W average and 66W per 5MHz |
| Rejection | 53dB minimum @ 894.1 - 896.5MHz | |
| ELECTRICAL | | |
| Impedance | 50Ohms | |
| Intermodulation products | -160dBc maximum in UL Band (assuming 20MHz Signal), with 2 x 43dBm carriers -153dBc maximum with 2 x 43dBm | |
| DC / AISG | | |
| Passband | 0 - 13MHz | |
| Insertion loss | 0.3dB maximum | |
| Return loss | 15dB minimum | |
| Input voltage range | ± 33V | |
| DC current rating | 2A continuous, 4A peak | |
| Compliance | 3GPP TS 25.461 | |
| ENVIRONMENTAL | | |
| For further details of environmental compliance, please contact Kaelus. | | |
| Temperature range | -20°C to +60°C -4°F to +140°F | |
| Ingress protection | IP67 | |
| Altitude | 2600m 8530ft | |
| Lightning protection | RF port: ±5kA maximum (8/20us), IEC 61000-4-5 – Unit must be terminated with some lightning protection circuits. | |
| MTBF | >1,000,000 hours | |
| Compliance | ETSI EN 300 019 class 4.1H, RoHS, NEBS GR-487-CORE | |
| MECHANICAL | | |
| Dimensions H x D x W | 269 x 277 x 80mm 10.60 x 10.90 x 3.15in (Excluding brackets and connectors) | |
| Weight | 8.0 kg 17.6 lbs (no bracket) | |
| Finish | Powder coated, light grey (RAL7035) | |
| Connectors | RF: 4.3-10 (F) x 4 | |
| Mounting | Optional pole/wall bracket supplied with two metal clamps 45-178mm diameter poles or custom bracket. See ordering information. | |

ORDERING INFORMATION

| PART NUMBER | CONFIGURATION | OPTIONAL FEATURES | CONNECTORS |
|---------------|--------------------|----------------------------|------------|
| BSF0020F3V1 | TWIN, 2 in / 2 out | DC/AISG PASS NO BRACKET | 4.3-10 (F) |
| BSF0020F3V1-1 | TWIN, 2 in / 2 out | DC/AISG PASS | 4.3-10 (F) |
| BSF0020F3V1-2 | QUAD, 4 in / 4 out | DC/AISG PASS | 4.3-10 (F) |

ELECTRICAL BLOCK DIAGRAM

ANT1



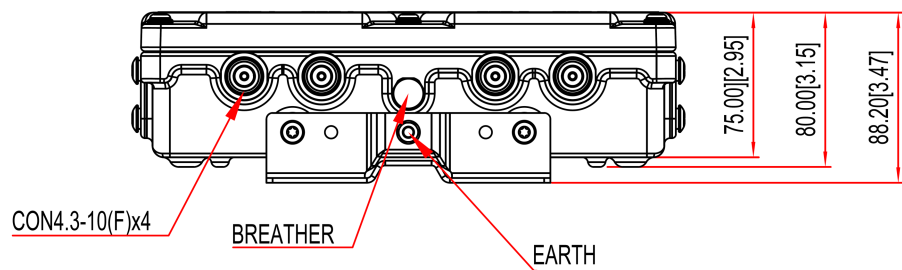
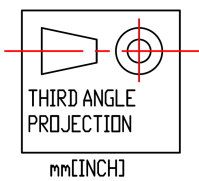
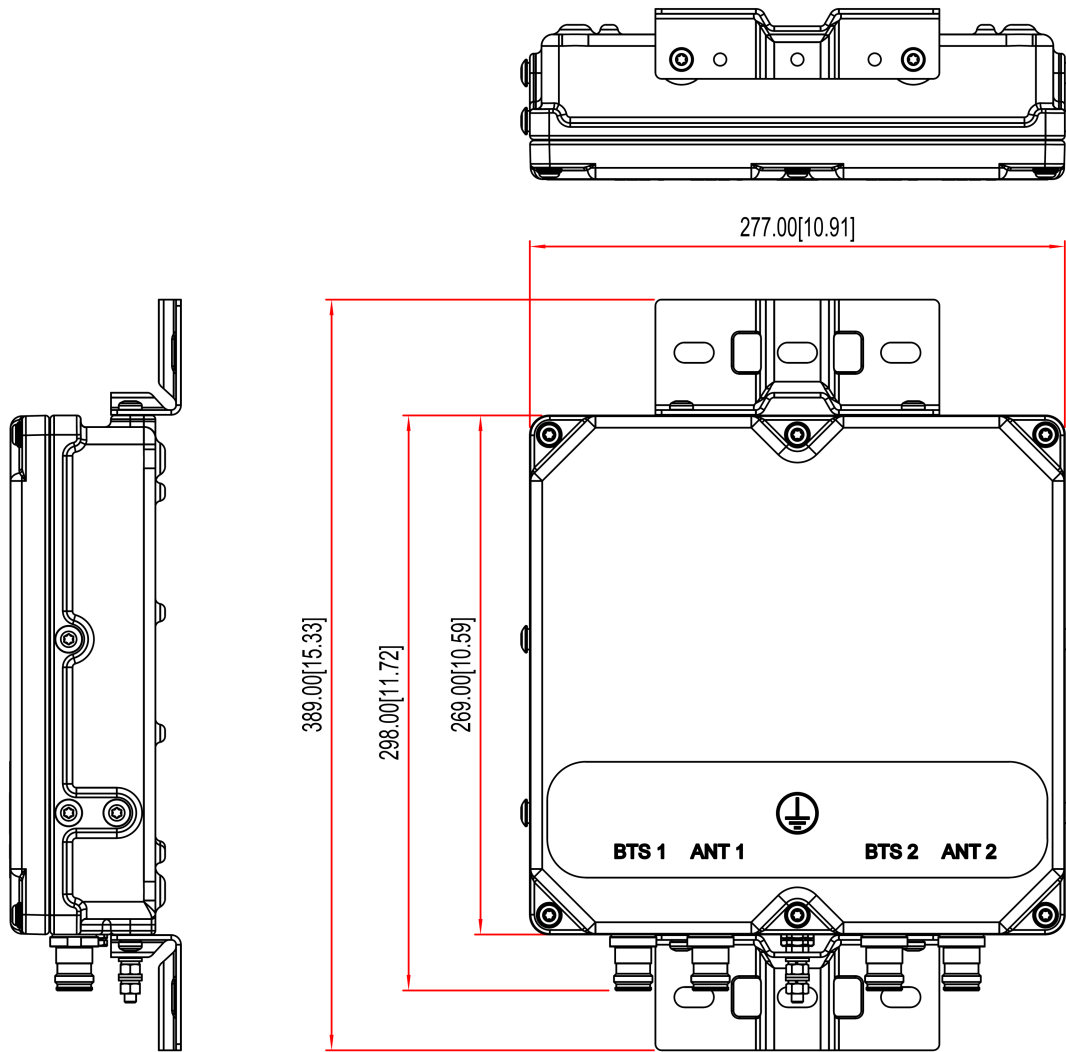
BTS1

ANT2



BTS2

MECHANICAL BLOCK DIAGRAM





Colliers Engineering & Design CT, P.C.
1055 Washington Boulevard
Stamford, CT 06901
203.324.0800
peter.albano@collierseng.com

Antenna Mount Analysis Report with Hardware Upgrades and PMI Requirements

Mount ReAnalysis

SMART Tool Project #: 10208049
Colliers Engineering & Design CT, P.C. Project #: 23777204

August 2, 2023

Site Information

Site ID: 5000385364-VZW / BRANFORD CT
Site Name: BRANFORD CT
Carrier Name: Verizon Wireless
Address: 180 No. Main Street
Branford, Connecticut 06405
New Haven County
Latitude: 41.289542°
Longitude: -72.811767°

Structure Information

Tower Type: 110-Ft Monopole
Mount Type: 15.00-Ft Combined Platform

FUZE ID # 17123777

Analysis Results

Combined Platform: 89.6% **Pass w/ Hardware Upgrades***

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

***Contractor PMI Requirements:

Included at the end of this MA report

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

For additional questions and support, please reach out to:

pmisupport@colliersengineering.com

Report Prepared By: Ismaias Recinos

Executive Summary:

The objective of this report is to determine the capacity of the antenna support mount at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

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: 323465, dated September 1, 2020 Filter Add Scope Provided by Verizon Wireless |
| Mount Mapping Report | Level-Up Towers, Site ID: 468228, dated February 17, 2021 |
| Previous Mount Analysis | Maser Consulting Connecticut Project #: 21777050A Dated April 8, 2021 |
| Post Modification Inspection | Colliers Engineering & Design Project #: 21777050 Dated March 2, 2023 |

Analysis Criteria:

Codes and Standards: ANSI/TIA-222-H
 2022 Connecticut State Building Code (CSBC), Effective October 1, 2022

Wind Parameters: Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 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 : 0.997

Seismic Parameters: S_s : 0.201 g
 S_1 : 0.053 g

Maintenance Parameters: Wind Speed (3-sec. Gust): 30 mph
 Maintenance Live Load, L_v : 250 lbs.
 Maintenance Live Load, L_m : 500 lbs.

Analysis Software: RISA-3D (V17)

Final Loading Configuration:

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

| Mount Elevation (ft) | Equipment Elevation (ft) | Quantity | Manufacturer | Model | Status |
|----------------------|--------------------------|----------|--------------|-------------------|----------|
| 97.00 | 99.00 | 6 | Andrew | DB846F65ZAXY | Retained |
| | | 2 | Raycap | RRFDC-3315-PF-48* | |
| | | 1 | - | GPS | |
| | | 6 | CommScope | JAHH-65B-R3B | |
| | | 3 | Samsung | MT6407-77A | |
| | | 3 | CommScope | CBC78-T-DS-43 | |
| | | 3 | Samsung | B2/B66A RRH-BR049 | |
| | | 3 | Samsung | B5/B13 RRH-BR04C | |
| | | 2 | Kaelus | KA-6030 | Added |

The recent mount mapping reported existing OVP units. 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 Colliers Engineering & Design CT, P.C. and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Colliers Engineering & Design CT, P.C. 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 in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.

5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Colliers Engineering & Design CT, P.C. 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:
 - o Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - o HSS (Rectangular) ASTM 500 (Gr. B-46)
 - o Pipe ASTM A53 (Gr. B-35)
 - o Threaded Rod F1554 (Gr. 36)
 - o Bolts ASTM A325

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

Analysis Results:

| Component | Utilization % | Pass/Fail |
|--------------------------|---------------|-----------|
| Platform Face Horizontal | 60.6 % | Pass |
| Platform Standoff | 24.0 % | Pass |
| Platform Crossmember | 27.6 % | Pass |
| Crossmember Plate | 47.3 % | Pass |
| Corner Plate | 27.0 % | Pass |
| Platform Grating Support | 36.9 % | Pass |
| Connection Plate | 89.6 % | Pass |
| Platform Connector Pipe | 85.5 % | Pass |
| Face Horizontal | 77.9 % | Pass |
| Mount Pipe | 39.1 % | Pass |
| Mount Pipe P2.5 | 31.9 % | Pass |
| Face Bracing | 27.6 % | Pass |
| Tieback | 27.7 % | Pass |
| GPS Pipe | 0.7 % | Pass |
| Connection | 25.8% | Pass |

| | |
|---|--------------|
| Structure Rating – (Controlling Utilization of all Components) | 89.6% |
|---|--------------|

* Results valid after hardware upgrades noted in the PMI Requirements are installed.

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

| Ice Thickness (In) | Mount Pipes Excluded | | Mount Pipes Included | |
|--------------------|------------------------|-----------------------|------------------------|-----------------------|
| | Front (EPA)a (Sq. Ft.) | Side (EPA)a (Sq. Ft.) | Front (EPA)a (Sq. Ft.) | Side (EPA)a (Sq. Ft.) |
| 0 | 97.2 | 93.6 | 129.4 | 125.8 |
| 0.5 | 117.1 | 121.7 | 166.8 | 162.2 |
| 1 | 140.4 | 146.1 | 204.1 | 198.5 |

Notes:

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

Requirements:

The existing mount will be **SUFFICIENT** for the final loading configuration shown in attachment 2 **upon the completion of the requirements listed below.**

Contractor shall install the proposed filter units on new Site Pro 1 Dual Swivel Mount Kit (Part #: RRUDSM or EOR approved equivalent) in the location shown in the placement diagrams.

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

Attachments:

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

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – **Passing Mount Analysis**

Passing Mount Analysis requires a PMI due to a modification in loading.

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

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

PSLC #: 5000385364

SMART Project #: 10208049

Fuze Project ID: 17123777

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

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

Base Requirements:

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

Photo Requirements:

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

- These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.
- Photos that show the model number of each antenna and piece of equipment installed per sector.

Antenna & equipment placement and Geometry Confirmation:

- The contractor shall certify that the antenna & equipment placement and geometry is in accordance with the sketch and table as included in the mount analysis and noted below.
 - The contractor certifies that the photos support and the equipment on the mount is as depicted on the sketch and table included in this form and with the mount analysis provided.

OR

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

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

Issue:

Contractor shall install the proposed filter units on new Site Pro 1 Dual Swivel Mount Kit (Part #: RRUDSM or EOR approved equivalent) in the location shown in the placement diagrams.

Response:

Special Instruction Confirmation:

- The contractor has read and acknowledges the above special instructions.
- All hardware listed in the Special Instructions above (if applicable) has been properly installed, and the existing hardware was inspected.
- The material utilized was as specified in the SMART Tool engineering vendor Special Instructions above (if applicable) and included in the material certification folder is a packing list or invoice for these materials.

OR

- The material utilized was approved by a SMART Tool engineering vendor as an “equivalent” and this approval is included as part of the contractor submission.

Comments:

| |
|--|
| |
|--|

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

Yes No

Contractor certifies no new damage created during the current installation:

Yes No

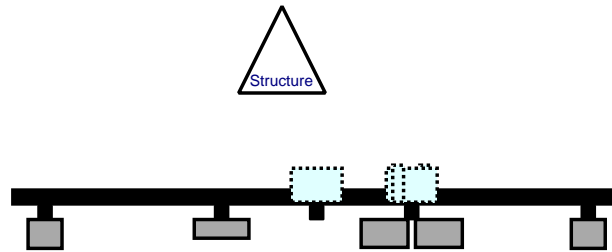
Contractor to certify the condition of the safety climb and verify no damage when leaving the site:

Safety Climb in Good Condition Safety Climb Damaged

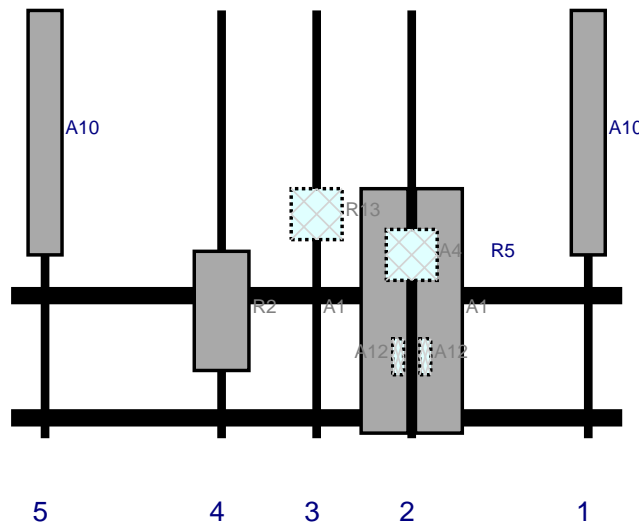
Certifying Individual:

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

Plan View

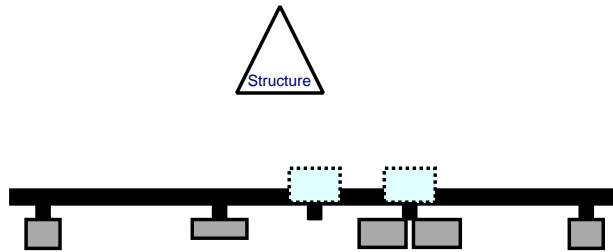


Front View - Looking at Structure

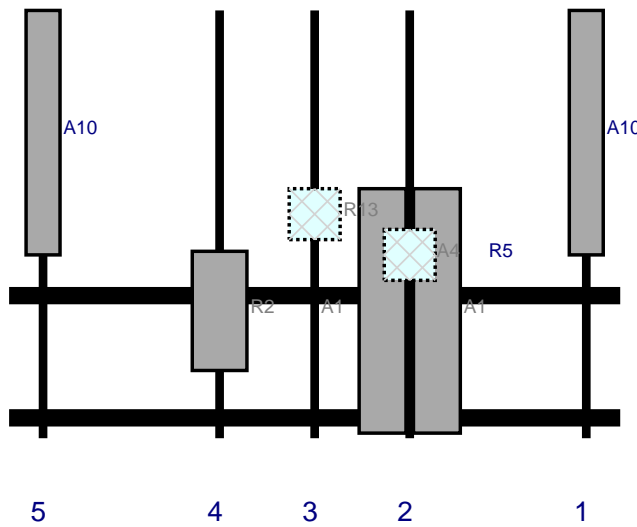


| Ref# | Model | Height (in) | Width (in) | H Dist Frm L. | Pipe # | Pipe Pos V | Ant Pos | C. Ant Frm T. | Ant H Off | Status | Validation |
|------|--------------------------------|-------------|------------|---------------|--------|------------|---------|---------------|-----------|----------|------------|
| A10 | for loading | 72 | 10 | 170 | 1 | a | Front | 36 | 0 | Retained | 02/06/2023 |
| A1 | JAHH-65B-R3B | 72 | 13.8 | 118 | 2 | a | Front | 88.5 | 8 | Retained | 02/06/2023 |
| A1 | JAHH-65B-R3B | 72 | 13.8 | 118 | 2 | b | Front | 88.5 | -8 | Retained | 02/06/2023 |
| A4 | CBC78-T-DS-43 | 7.9 | 5.9 | 118 | 2 | a | Behind | 72 | 4 | Retained | 02/06/2023 |
| R5 | B2/B66A RRH-BR049 | 15 | 15 | 118 | 2 | a | Behind | 72 | 0 | Retained | 02/06/2023 |
| A12 | KA-6030 | 10.6 | 3.2 | 118 | 2 | a | Behind | 102 | -4 | Added | |
| A12 | KA-6030 | 10.6 | 3.2 | 118 | 2 | b | Behind | 102 | 4 | Added | |
| R13 | B2/B66A RRH-BR049 (RFV01U-D1A) | 15 | 15 | 90 | 3 | a | Behind | 60 | 0 | None | |
| R2 | MT6407-77A | 35.1 | 16.1 | 62 | 4 | a | Front | 88.5 | 0 | Retained | 02/06/2023 |
| A10 | for loading | 72 | 10 | 10 | 5 | a | Front | 36 | 0 | Retained | 02/06/2023 |
| R1 | B5/B13 RRH-BR04C | 15 | 15 | | | | Member | | | Retained | 02/06/2023 |
| R2 | B5/B13 RRH-BR04C (RFV01U-D2A) | 15 | 15 | | | | Member | | | Retained | 02/06/2023 |
| R3 | B5/B13 RRH-BR04C (RFV01U-D2A) | 15 | 15 | | | | Member | | | Retained | 02/06/2023 |
| GPS | GPS | 4.5 | 4.7 | | | | Member | | | Retained | 02/06/2023 |

Plan View

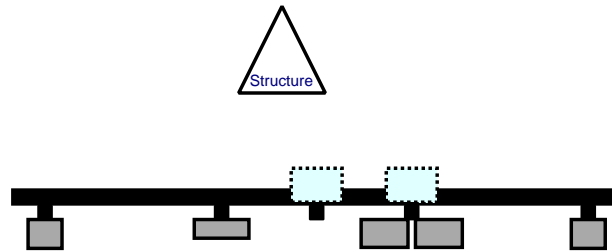


Front View - Looking at Structure

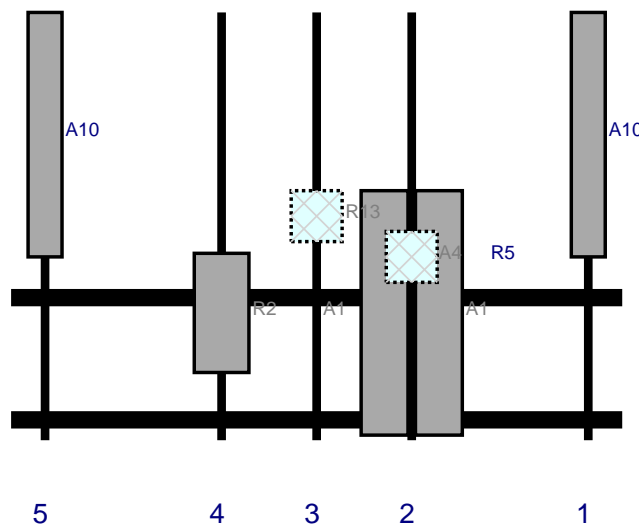


| Ref# | Model | Height (in) | Width (in) | H Dist Frm L. | Pipe # | Pipe Pos V | Ant Pos | C. Ant Frm T. | Ant H Off | Status | Validation |
|------|---------------------------------|-------------|------------|---------------|--------|------------|---------|---------------|-----------|----------|------------|
| A10 | for loading | 72 | 10 | 170 | 1 | a | Front | 36 | 0 | Retained | 02/06/2023 |
| A1 | JAHH-65B-R3B | 72 | 13.8 | 118 | 2 | a | Front | 88.5 | 8 | Retained | 02/06/2023 |
| A1 | JAHH-65B-R3B | 72 | 13.8 | 118 | 2 | b | Front | 88.5 | -8 | Retained | 02/06/2023 |
| A4 | CBC78-T-DS-43 | 7.9 | 5.9 | 118 | 2 | a | Behind | 72 | 4 | Retained | 02/06/2023 |
| R5 | B2/B66A RRRH-BR049 | 15 | 15 | 118 | 2 | a | Behind | 72 | 0 | Retained | 02/06/2023 |
| R13 | B2/B66A RRRH-BR049 (RFV01U-D1A) | 15 | 15 | 90 | 3 | a | Behind | 60 | 0 | None | |
| R2 | MT6407-77A | 35.1 | 16.1 | 62 | 4 | a | Front | 88.5 | 0 | Retained | 02/06/2023 |
| A10 | for loading | 72 | 10 | 10 | 5 | a | Front | 36 | 0 | Retained | 02/06/2023 |

Plan View

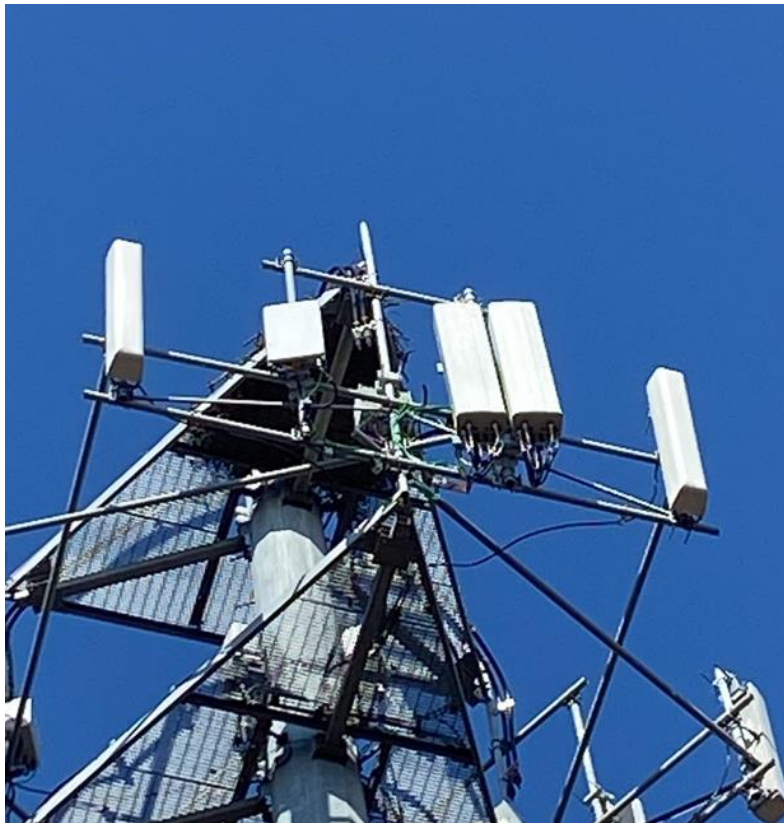


Front View - Looking at Structure

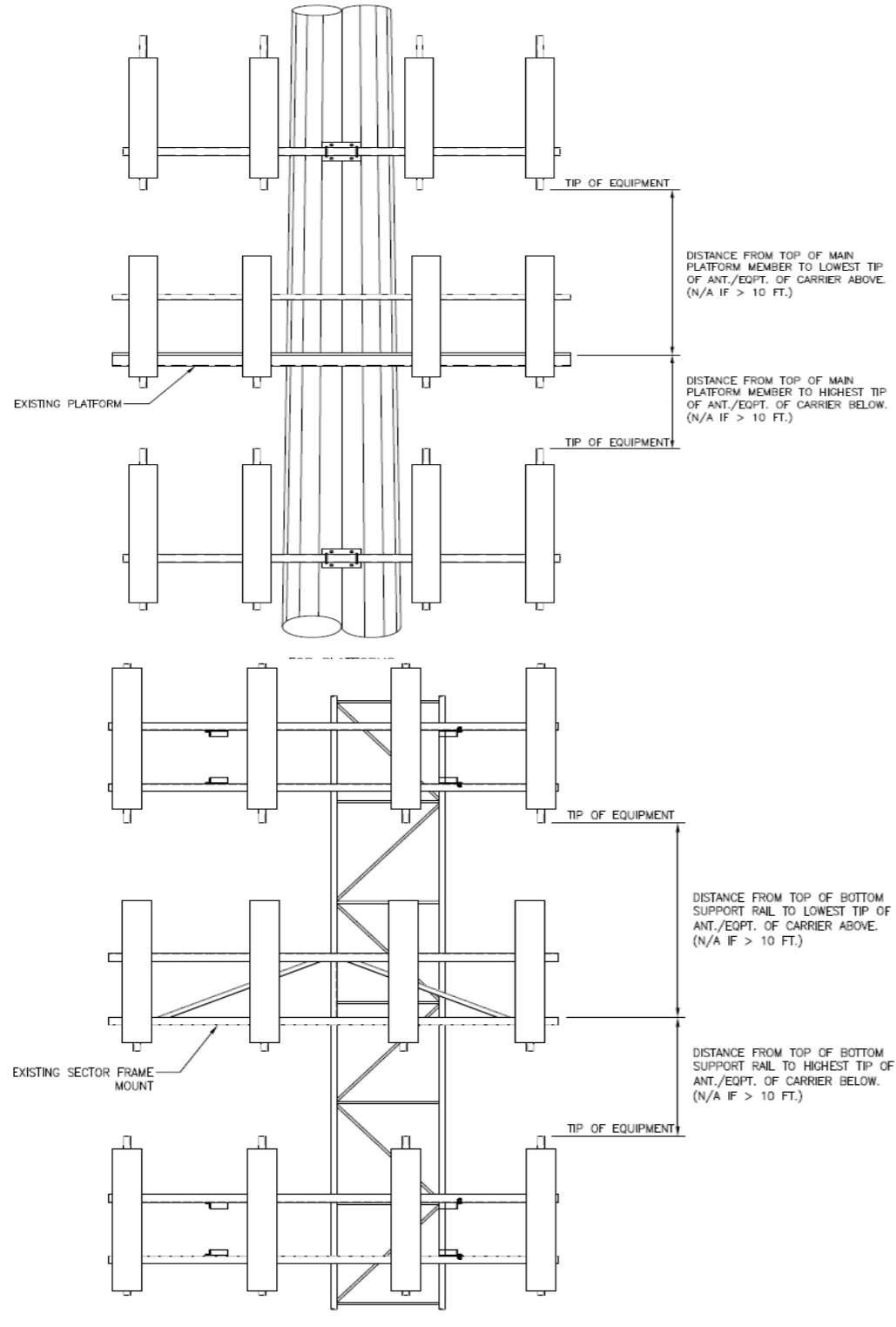


| Ref# | Model | Height (in) | Width (in) | H Dist Frm L. | Pipe # | Pipe Pos V | Ant Pos | C. Ant Frm T. | Ant H Off | Status | Validation |
|------|--------------------------------|-------------|------------|---------------|--------|------------|---------|---------------|-----------|----------|------------|
| A10 | for loading | 72 | 10 | 170 | 1 | a | Front | 36 | 0 | Retained | 02/06/2023 |
| A1 | JAHH-65B-R3B | 72 | 13.8 | 118 | 2 | a | Front | 88.5 | 8 | Retained | 02/06/2023 |
| A1 | JAHH-65B-R3B | 72 | 13.8 | 118 | 2 | b | Front | 88.5 | -8 | Retained | 02/06/2023 |
| A4 | CBC78-T-DS-43 | 7.9 | 5.9 | 118 | 2 | a | Behind | 72 | 4 | Retained | 02/06/2023 |
| R5 | B2/B66A RRH-BR049 | 15 | 15 | 118 | 2 | a | Behind | 72 | 0 | Retained | 02/06/2023 |
| R13 | B2/B66A RRH-BR049 (RFV01U-D1A) | 15 | 15 | 90 | 3 | a | Behind | 60 | 0 | None | |
| R2 | MT6407-77A | 35.1 | 16.1 | 62 | 4 | a | Front | 88.5 | 0 | Retained | 02/06/2023 |
| A10 | for loading | 72 | 10 | 10 | 5 | a | Front | 36 | 0 | Retained | 02/06/2023 |

180 N Main St
Branford CT 06405
United States



| Mount Azimuth (Degree) for Each Sector | | | Tower Leg Azimuth (Degree) for Each Sector | | | Sector B | | | | | | | | | | |
|--|-----------------|---------------------------------|--|--|-----|-------------------|----------------------|-------|-------|-------|-----------|---------|-------|-------|--------|----|
| Sector A: | 30.00 | Deg | Leg A: | | Deg | Ant _{1a} | Worn Label | 10.00 | 8.00 | 72.00 | 1 - 1-5/8 | 98.8333 | 36.00 | 9.00 | 160.00 | 91 |
| Sector B: | 150.00 | Deg | Leg B: | | Deg | Ant _{1b} | | | | | | | | | | |
| Sector C: | 270.00 | Deg | Leg C: | | Deg | Ant _{1c} | | | | | | | | | | |
| Sector D: | | Deg | Leg D: | | Deg | Ant _{2a} | ALU B13 RRH4x30 | 12.00 | 8.00 | 20.00 | | 101.333 | 50.00 | -7.00 | 160.00 | 92 |
| Climbing Facility Information | | | | | | Ant _{2b} | | | | | | | | | | |
| Location: | 180.00 | Deg | Sector B | | | Ant _{2c} | | | | | | | | | | |
| Climbing Facility | Corrosion Type: | Good condition. | | | | Ant _{3a} | Commscope SBNHH-1 | 12.00 | 7.00 | 73.00 | | 97.3333 | 44.00 | 9.00 | 160.00 | 93 |
| | Access: | Climbing path was unobstructed. | | | | Ant _{3b} | Commscope SBNHH-1 | 12.00 | 7.00 | 73.00 | | 97.3333 | 44.00 | 9.00 | 160.00 | 93 |
| | Condition: | Good condition. | | | | Ant _{3c} | Nokia UHIE, B66a RRH | 12.00 | 7.00 | 26.00 | | 96.3333 | 56.00 | -7.00 | 160.00 | 93 |
| | | | | | | Ant _{4a} | Kathrein 742213V01 | 6.00 | 3.00 | 77.00 | | 102.5 | 36.00 | 8.00 | 160.00 | 94 |
| | | | | | | Ant _{4b} | Nokia UHFA, B25 RRH | 18.00 | 12.00 | 21.00 | | 101.25 | 51.00 | -8.00 | 160.00 | 94 |
| | | | | | | Ant _{4c} | | | | | | | | | | |
| | | | | | | Ant _{5a} | Worn Label | 10.00 | 8.00 | 72.00 | 1 - 1-5/8 | 98.8333 | 36.00 | 9.00 | 160.00 | 94 |
| | | | | | | Ant _{5b} | | | | | | | | | | |
| | | | | | | Ant _{5c} | | | | | | | | | | |
| | | | | | | Ant on Standoff | | | | | | | | | | |
| | | | | | | Ant on Standoff | | | | | | | | | | |
| | | | | | | Ant on Tower | | | | | | | | | | |
| | | | | | | Ant on Tower | | | | | | | | | | |



| Sector B | | | | | | | | | | | |
|-------------------|----------------------|-------|-------|-------|-----------|---------|-------|-------|--------|----|--|
| Ant _{1a} | Worn Label | 10.00 | 8.00 | 72.00 | 1 - 1-5/8 | 98.8333 | 36.00 | 9.00 | 160.00 | 91 | |
| Ant _{1b} | | | | | | | | | | | |
| Ant _{1c} | | | | | | | | | | | |
| Ant _{2a} | ALU B13 RRH4x30 | 12.00 | 8.00 | 20.00 | | 101.333 | 50.00 | -7.00 | 160.00 | 92 | |
| Ant _{2b} | | | | | | | | | | | |
| Ant _{2c} | | | | | | | | | | | |
| Ant _{3a} | Commscope SBNHH-1 | 12.00 | 7.00 | 73.00 | | 97.3333 | 44.00 | 9.00 | 160.00 | 93 | |
| Ant _{3b} | Commscope SBNHH-1 | 12.00 | 7.00 | 73.00 | | 97.3333 | 44.00 | 9.00 | 160.00 | 93 | |
| Ant _{3c} | Nokia UHIE, B66a RRH | 12.00 | 7.00 | 26.00 | | 96.3333 | 56.00 | -7.00 | 160.00 | 93 | |
| Ant _{4a} | Kathrein 742213V01 | 6.00 | 3.00 | 77.00 | | 102.5 | 36.00 | 8.00 | 160.00 | 94 | |
| Ant _{4b} | Nokia UHFA, B25 RRH | 18.00 | 12.00 | 21.00 | | 101.25 | 51.00 | -8.00 | 160.00 | 94 | |
| Ant _{4c} | | | | | | | | | | | |
| Ant _{5a} | Worn Label | 10.00 | 8.00 | 72.00 | 1 - 1-5/8 | 98.8333 | 36.00 | 9.00 | 160.00 | 94 | |
| Ant _{5b} | | | | | | | | | | | |
| Ant _{5c} | | | | | | | | | | | |
| Ant on Standoff | | | | | | | | | | | |
| Ant on Standoff | | | | | | | | | | | |
| Ant on Tower | | | | | | | | | | | |
| Ant on Tower | | | | | | | | | | | |

| Sector C | | | | | | | | | | | |
|-------------------|----------------------|-------|-------|-------|-----------|---------|-------|-------|--------|-----|--|
| Ant _{1a} | Worn Label | 10.00 | 8.00 | 72.00 | 1 - 1-5/8 | 98.8333 | 36.00 | 9.00 | 280.00 | 128 | |
| Ant _{1b} | | | | | | | | | | | |
| Ant _{1c} | | | | | | | | | | | |
| Ant _{2a} | ALU B13 RRH4x30 | 12.00 | 8.00 | 20.00 | | 101.333 | 50.00 | -7.00 | 280.00 | 129 | |
| Ant _{2b} | | | | | | | | | | | |
| Ant _{2c} | | | | | | | | | | | |
| Ant _{3a} | Commscope SBNHH-1 | 12.00 | 7.00 | 73.00 | | 97.3333 | 44.00 | 9.00 | 280.00 | 130 | |
| Ant _{3b} | Commscope SBNHH-1 | 12.00 | 7.00 | 73.00 | | 97.3333 | 44.00 | 9.00 | 280.00 | 130 | |
| Ant _{3c} | Nokia UHIE, B66a RRH | 12.00 | 7.00 | 26.00 | | 96.3333 | 56.00 | -7.00 | 280.00 | 131 | |
| Ant _{4a} | Kathrein 742213V01 | 6.00 | 3.00 | 77.00 | | 102.5 | 36.00 | 8.00 | 280.00 | 132 | |
| Ant _{4b} | Nokia UHFA, B25 RRH | 18.00 | 12.00 | 21.00 | | 101.25 | 51.00 | -8.00 | 280.00 | 132 | |
| Ant _{4c} | | | | | | | | | | | |
| Ant _{5a} | Worn Label | 10.00 | 8.00 | 72.00 | 1 - 1-5/8 | 98.8333 | 36.00 | 9.00 | 280.00 | 133 | |
| Ant _{5b} | | | | | | | | | | | |
| Ant _{5c} | | | | | | | | | | | |
| Ant on Standoff | | | | | | | | | | | |
| Ant on Standoff | | | | | | | | | | | |
| Ant on Tower | | | | | | | | | | | |
| Ant on Tower | | | | | | | | | | | |

| Sector D | | | | | | | | | | | |
|-------------------|--|--|--|--|--|--|--|--|--|--|--|
| Ant _{1a} | | | | | | | | | | | |
| Ant _{1b} | | | | | | | | | | | |
| Ant _{1c} | | | | | | | | | | | |
| Ant _{2a} | | | | | | | | | | | |
| Ant _{2b} | | | | | | | | | | | |
| Ant _{2c} | | | | | | | | | | | |
| Ant _{3a} | | | | | | | | | | | |
| Ant _{3b} | | | | | | | | | | | |
| Ant _{3c} | | | | | | | | | | | |
| Ant _{4a} | | | | | | | | | | | |
| Ant _{4b} | | | | | | | | | | | |
| Ant _{4c} | | | | | | | | | | | |
| Ant _{5a} | | | | | | | | | | | |
| Ant _{5b} | | | | | | | | | | | |
| Ant _{5c} | | | | | | | | | | | |
| Ant on Standoff | | | | | | | | | | | |
| Ant on Standoff | | | | | | | | | | | |
| Ant on Tower | | | | | | | | | | | |
| Ant on Tower | | | | | | | | | | | |

| Observed Safety and Structural Issues During the Mount Mapping | | |
|--|----------------------|---------|
| Issue # | Description of Issue | Photo # |
| | | |

| | | |
|---|--|--|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |

| Mapping Notes |
|----------------------|
|----------------------|

1. Please report any visible structural or safety issues observed on the antenna mounts (Damaged members, loose connections, tilting mounts, safety climb issues, etc.)
2. If the thickness of the existing pipes or tubing can't be obtained from a general tool (such as Caliper), please use an ultrasonic measurement tool (thickness gauge) to measure the thickness.
3. Please create all required detail sketches of the mounts and insert them into the "Sketches" tab.
4. Please measure and enter the bolt sizes and types under the Members Box in the spreadsheet of the mount type.
5. Take and label the photos of the tower, mounts, connections, antennas and all measurements. Minimum 50 photos are required.
6. Please measure and report the size and length of all existing antenna mounting pipes.
7. Please measure and report the antenna information for all sectors.
8. Don't delete or rearrange any sheet or contents of any sheet from this mapping form.

| Standard Conditions |
|----------------------------|
|----------------------------|

1. Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping are to be reported in this mapping. However, this mount mapping is not a condition assessment of the mount.



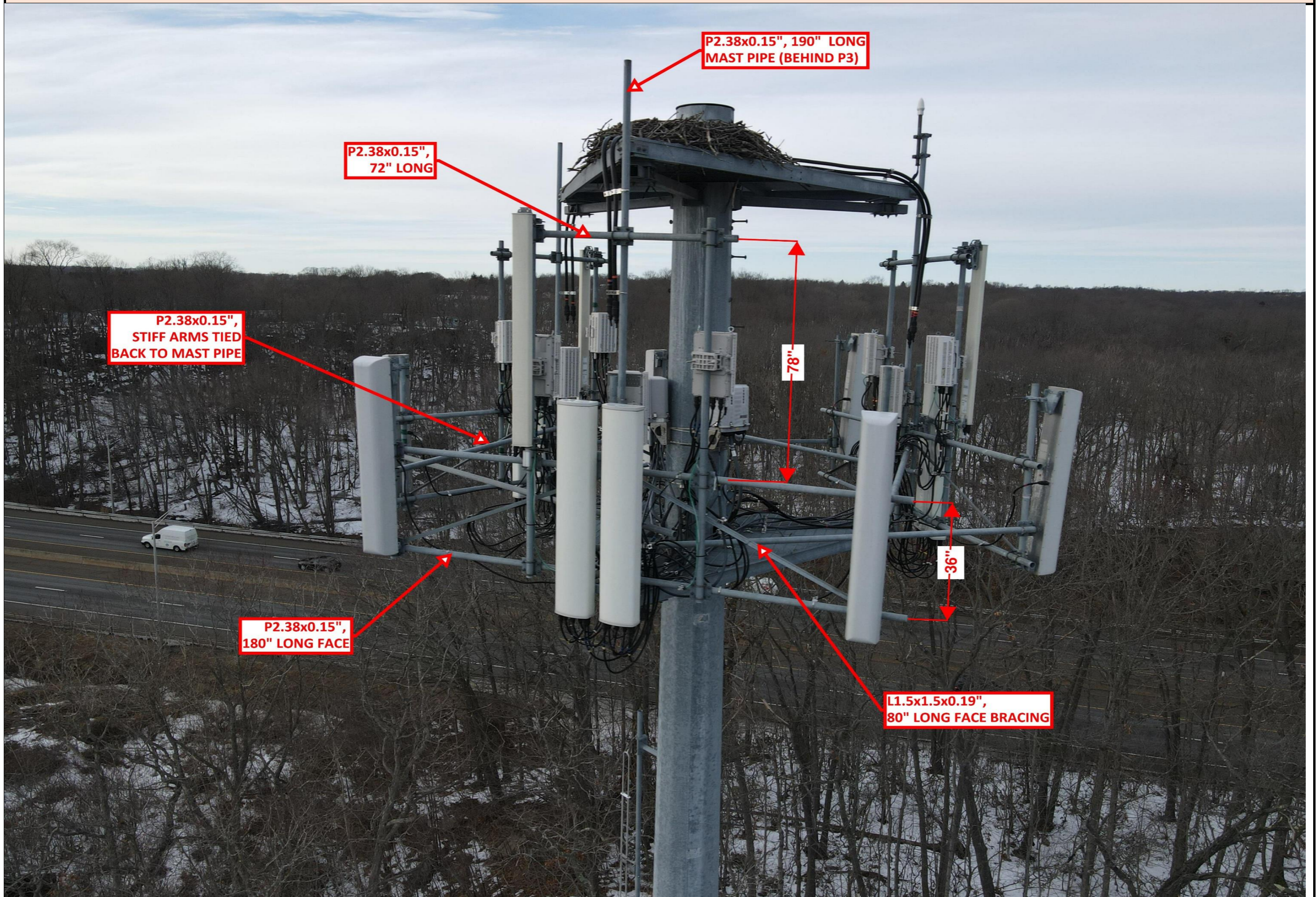
Antenna Mount Mapping Form (PATENT PENDING)

FCC #

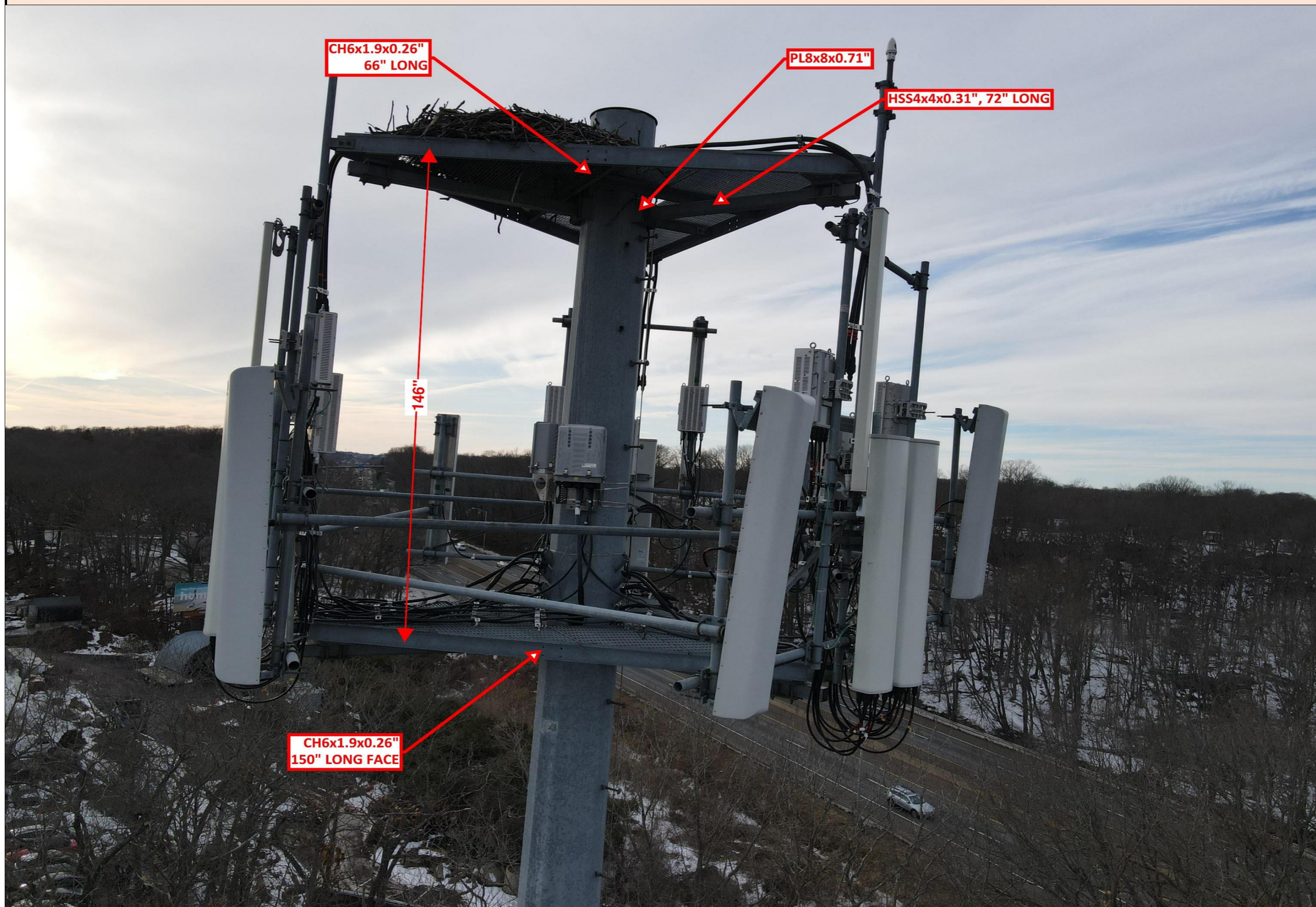
| | | | |
|---------------------|-----------------|------------------------|-----------|
| Tower Owner: | Crown Castle | Mapping Date: | 2/17/2021 |
| Site Name: | BRANFORD CT | Tower Type: | Monopole |
| Site Number or ID: | 468228 | Tower Height (Ft.): | 110 |
| Mapping Contractor: | Level-Up Towers | Mount Elevation (Ft.): | 97 |

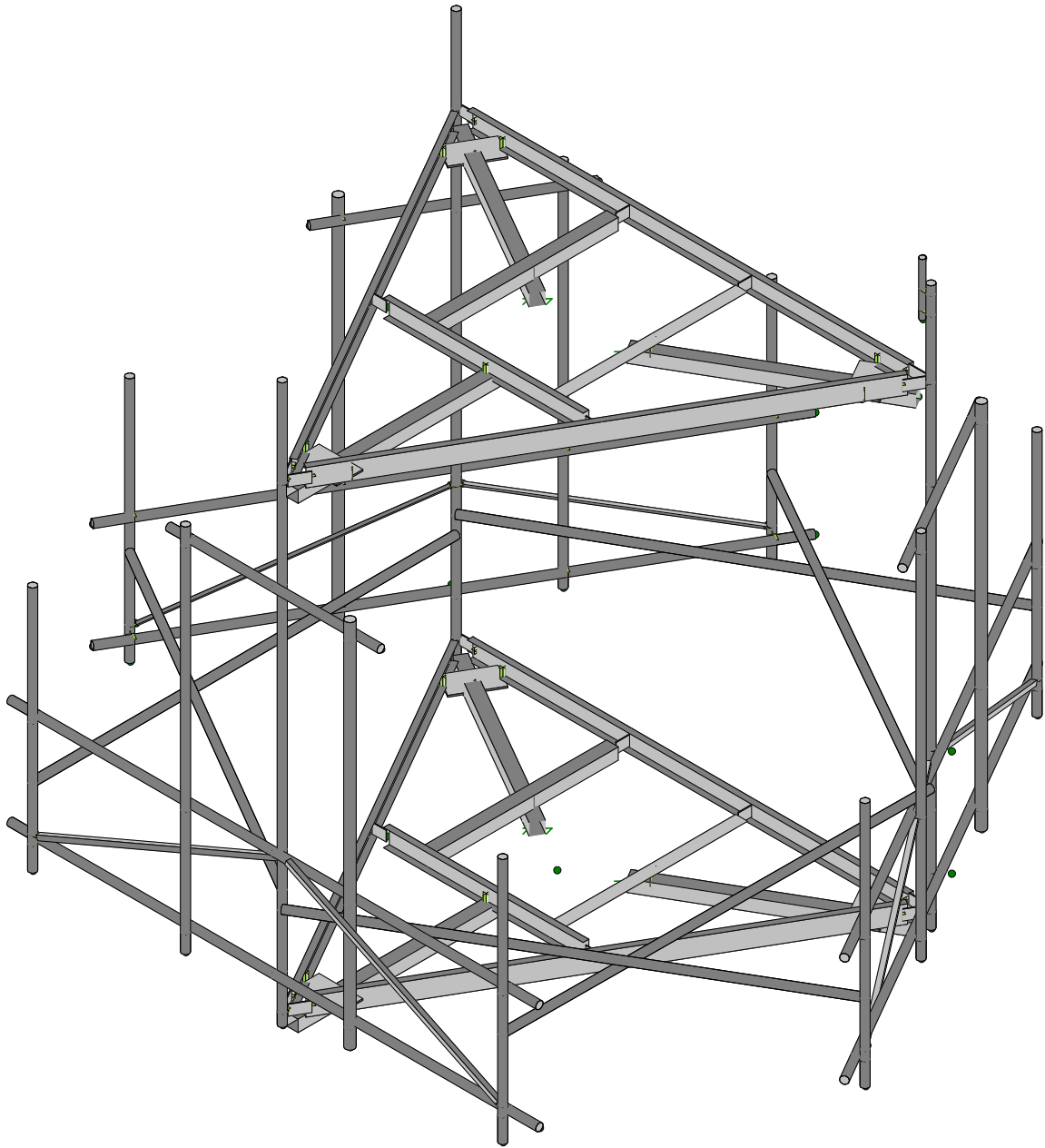
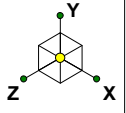
This antenna mapping form is the property of TES and under **PATENT PENDING**. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is prohibited except by express written permission of TES. All means and methods are the responsibility of the contractor and the work shall be compliant with ANSI/ASSE A 10.48, OSHA, FCC, FAA and other safety requirements that may apply. TES is not warranting the usability of the safety climb as it must be assessed prior to each use in compliance with OSHA requirements.

Please Insert Sketches of the Antenna Mount



Please Insert Sketches of the Antenna Mount, cont'd





Envelope Only Solution

Colliers Engineering & De...

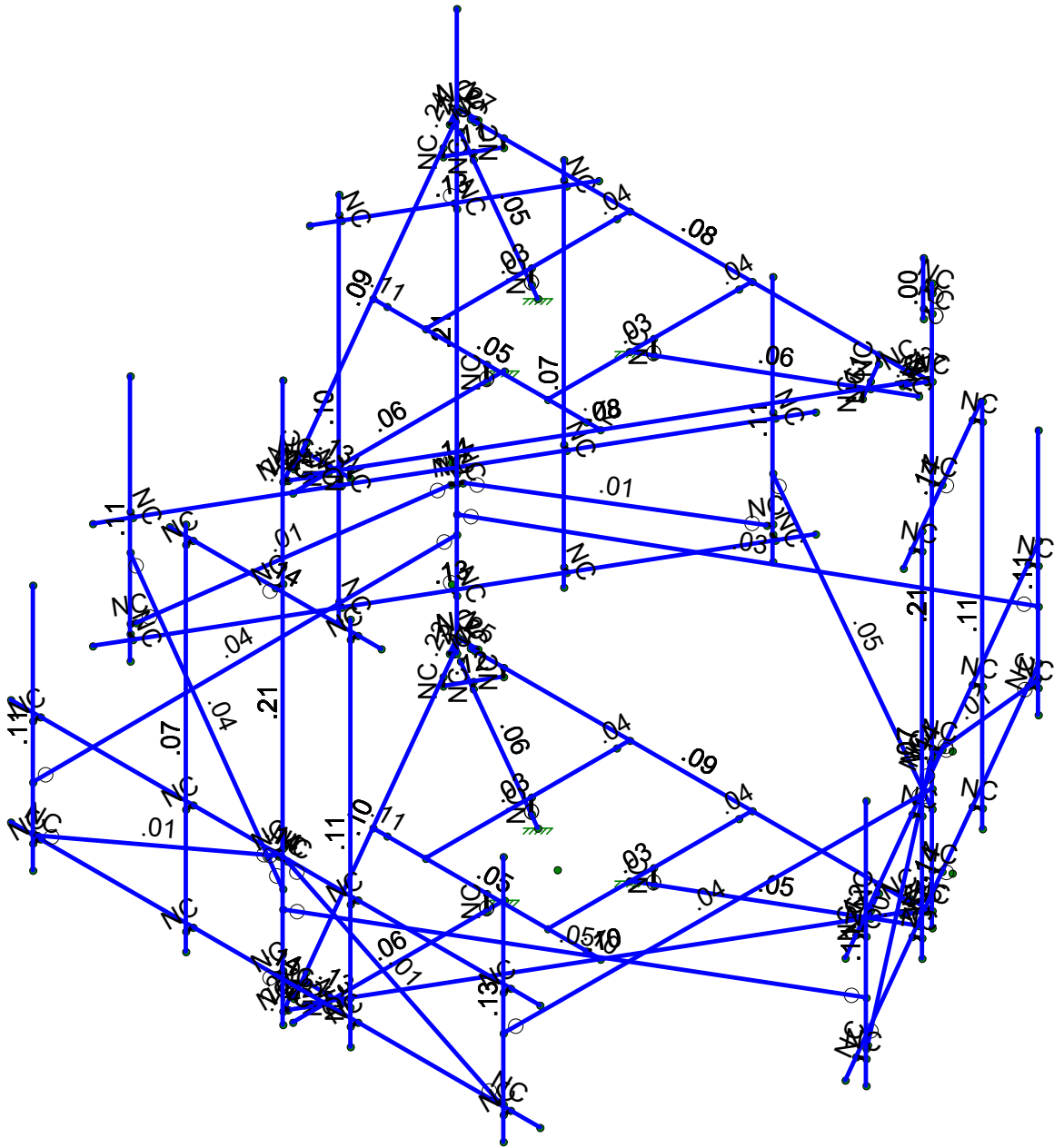
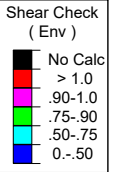
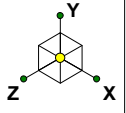
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Project No. 10208049

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Aug 2, 2023 at 4:56 PM

5000385364-VZW_MT_LO_H.r3d



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

| | | |
|------------------------------|------------------------|----------------------------|
| Colliers Engineering & De... | 5000385364-VZW_MT_LO_H | Aug 2, 2023 at 4:56 PM |
| ILR | | 5000385364-VZW_MT_LO_H.r3d |
| Project No. 10208049 | | |



Basic Load Cases

| | BLC Description | Category | X Gravity | Y Gravity | Z Gravity | Joint | Point | Distributed Area(Me... | Surface(P... |
|----|------------------------|----------|-----------|-----------|-----------|-------|-------|------------------------|--------------|
| 1 | Antenna D | None | | | | | 132 | | |
| 2 | Antenna Di | None | | | | | 132 | | |
| 3 | Antenna Wo (0 Deg) | None | | | | | 132 | | |
| 4 | Antenna Wo (30 Deg) | None | | | | | 132 | | |
| 5 | Antenna Wo (60 Deg) | None | | | | | 132 | | |
| 6 | Antenna Wo (90 Deg) | None | | | | | 132 | | |
| 7 | Antenna Wo (120 Deg) | None | | | | | 132 | | |
| 8 | Antenna Wo (150 Deg) | None | | | | | 132 | | |
| 9 | Antenna Wo (180 Deg) | None | | | | | 132 | | |
| 10 | Antenna Wo (210 Deg) | None | | | | | 132 | | |
| 11 | Antenna Wo (240 Deg) | None | | | | | 132 | | |
| 12 | Antenna Wo (270 Deg) | None | | | | | 132 | | |
| 13 | Antenna Wo (300 Deg) | None | | | | | 132 | | |
| 14 | Antenna Wo (330 Deg) | None | | | | | 132 | | |
| 15 | Antenna Wi (0 Deg) | None | | | | | 132 | | |
| 16 | Antenna Wi (30 Deg) | None | | | | | 132 | | |
| 17 | Antenna Wi (60 Deg) | None | | | | | 132 | | |
| 18 | Antenna Wi (90 Deg) | None | | | | | 132 | | |
| 19 | Antenna Wi (120 Deg) | None | | | | | 132 | | |
| 20 | Antenna Wi (150 Deg) | None | | | | | 132 | | |
| 21 | Antenna Wi (180 Deg) | None | | | | | 132 | | |
| 22 | Antenna Wi (210 Deg) | None | | | | | 132 | | |
| 23 | Antenna Wi (240 Deg) | None | | | | | 132 | | |
| 24 | Antenna Wi (270 Deg) | None | | | | | 132 | | |
| 25 | Antenna Wi (300 Deg) | None | | | | | 132 | | |
| 26 | Antenna Wi (330 Deg) | None | | | | | 132 | | |
| 27 | Antenna Wm (0 Deg) | None | | | | | 132 | | |
| 28 | Antenna Wm (30 Deg) | None | | | | | 132 | | |
| 29 | Antenna Wm (60 Deg) | None | | | | | 132 | | |
| 30 | Antenna Wm (90 Deg) | None | | | | | 132 | | |
| 31 | Antenna Wm (120 Deg) | None | | | | | 132 | | |
| 32 | Antenna Wm (150 Deg) | None | | | | | 132 | | |
| 33 | Antenna Wm (180 Deg) | None | | | | | 132 | | |
| 34 | Antenna Wm (210 Deg) | None | | | | | 132 | | |
| 35 | Antenna Wm (240 Deg) | None | | | | | 132 | | |
| 36 | Antenna Wm (270 Deg) | None | | | | | 132 | | |
| 37 | Antenna Wm (300 Deg) | None | | | | | 132 | | |
| 38 | Antenna Wm (330 Deg) | None | | | | | 132 | | |
| 39 | Structure D | None | | -1 | | | | 84 | 11 |
| 40 | Structure Di | None | | | | | | 84 | 11 |
| 41 | Structure Wo (0 Deg) | None | | | | | | 168 | |
| 42 | Structure Wo (30 Deg) | None | | | | | | 168 | |
| 43 | Structure Wo (60 Deg) | None | | | | | | 168 | |
| 44 | Structure Wo (90 Deg) | None | | | | | | 168 | |
| 45 | Structure Wo (120 D... | None | | | | | | 168 | |
| 46 | Structure Wo (150 D... | None | | | | | | 168 | |
| 47 | Structure Wo (180 D... | None | | | | | | 168 | |
| 48 | Structure Wo (210 D... | None | | | | | | 168 | |
| 49 | Structure Wo (240 D... | None | | | | | | 168 | |
| 50 | Structure Wo (270 D... | None | | | | | | 168 | |
| 51 | Structure Wo (300 D... | None | | | | | | 168 | |
| 52 | Structure Wo (330 D... | None | | | | | | 168 | |
| 53 | Structure Wi (0 Deg) | None | | | | | | 168 | |
| 54 | Structure Wi (30 Deg) | None | | | | | | 168 | |
| 55 | Structure Wi (60 Deg) | None | | | | | | 168 | |
| 56 | Structure Wi (90 Deg) | None | | | | | | 168 | |



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 | | | | | | 168 | |
| 58 | Structure Wi (150 De.. | None | | | | | | 168 | |
| 59 | Structure Wi (180 De.. | None | | | | | | 168 | |
| 60 | Structure Wi (210 De.. | None | | | | | | 168 | |
| 61 | Structure Wi (240 De.. | None | | | | | | 168 | |
| 62 | Structure Wi (270 De.. | None | | | | | | 168 | |
| 63 | Structure Wi (300 De.. | None | | | | | | 168 | |
| 64 | Structure Wi (330 De.. | None | | | | | | 168 | |
| 65 | Structure Wm (0 Deg) | None | | | | | | 168 | |
| 66 | Structure Wm (30 De.. | None | | | | | | 168 | |
| 67 | Structure Wm (60 De.. | None | | | | | | 168 | |
| 68 | Structure Wm (90 De.. | None | | | | | | 168 | |
| 69 | Structure Wm (120 D.. | None | | | | | | 168 | |
| 70 | Structure Wm (150 D.. | None | | | | | | 168 | |
| 71 | Structure Wm (180 D.. | None | | | | | | 168 | |
| 72 | Structure Wm (210 D.. | None | | | | | | 168 | |
| 73 | Structure Wm (240 D.. | None | | | | | | 168 | |
| 74 | Structure Wm (270 D.. | None | | | | | | 168 | |
| 75 | Structure Wm (300 D.. | None | | | | | | 168 | |
| 76 | Structure Wm (330 D.. | None | | | | | | 168 | |
| 77 | Lm1 | None | | | | | 1 | | |
| 78 | Lm2 | None | | | | | 1 | | |
| 79 | Lv1 | None | | | | | 1 | | |
| 80 | Lv2 | None | | | | | 1 | | |
| 81 | Antenna Ev | None | | | | | 132 | | |
| 82 | Antenna Eh (0 Deg) | None | | | | | 88 | | |
| 83 | Antenna Eh (90 Deg) | None | | | | | 88 | | |
| 84 | Structure Ev | ELY | | -.043 | | | | 11 | |
| 85 | Structure Eh (0 Deg) | ELZ | | | -.107 | | | 11 | |
| 86 | Structure Eh (90 Deg) | ELX | .107 | | | | | 11 | |
| 87 | BLC 39 Transient Are.. | None | | | | | | 157 | |
| 88 | BLC 40 Transient Are.. | None | | | | | | 157 | |
| 89 | BLC 84 Transient Are.. | None | | | | | | 157 | |
| 90 | BLC 85 Transient Are.. | None | | | | | | 157 | |
| 91 | BLC 86 Transient Are.. | None | | | | | | 157 | |

Load Combinations

| | Description | Sol. | PD. | SR. | BLC Fact.. | BLC Fact.. | BLC Fact.. | BLC Fact.. | BLC Fact.. | 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 | | | |



Load Combinations (Continued)

| | Description | Sol. | PD | SR | BLC Fact. | BLC Fact. | BLC Fact. | BLC Fact. | BLC Fact. | BLC Fact. | BLC Fact. | BLC Fact. | BLC Fact. | BLC Fact. | BLC Fact. | BLC Fact. |
|----|--------------|------|----|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------------------|
| 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 | | |
| 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 | 1.2D + 1.0.. | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 81 | 1 | ELY | 1 | 82 | 1 | 83 | ELZ 1 ELX |
| 53 | 1.2D + 1.0.. | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 81 | 1 | ELY | 1 | 82 | .866 | 83 | .5 ELZ .866 ELX .5 |
| 54 | 1.2D + 1.0.. | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 81 | 1 | ELY | 1 | 82 | .5 | 83 | .866 ELZ .5 ELX .866 |
| 55 | 1.2D + 1.0.. | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 81 | 1 | ELY | 1 | 82 | | 83 | 1 ELZ ELX 1 |
| 56 | 1.2D + 1.0.. | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 81 | 1 | ELY | 1 | 82 | -.5 | 83 | .866 ELZ -.5 ELX .866 |
| 57 | 1.2D + 1.0.. | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 81 | 1 | ELY | 1 | 82 | -.866 | 83 | .5 ELZ -.866 ELX .5 |
| 58 | 1.2D + 1.0.. | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 81 | 1 | ELY | 1 | 82 | -1 | 83 | ELZ -1 ELX |
| 59 | 1.2D + 1.0.. | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 81 | 1 | ELY | 1 | 82 | -.866 | 83 | -.5 ELZ -.866 ELX -.5 |
| 60 | 1.2D + 1.0.. | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 81 | 1 | ELY | 1 | 82 | -.5 | 83 | -.866 ELZ -.5 ELX -.866 |
| 61 | 1.2D + 1.0.. | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 81 | 1 | ELY | 1 | 82 | | 83 | -1 ELZ ELX -1 |
| 62 | 1.2D + 1.0.. | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 81 | 1 | ELY | 1 | 82 | .5 | 83 | -.866 ELZ .5 ELX -.866 |
| 63 | 1.2D + 1.0.. | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 81 | 1 | ELY | 1 | 82 | .866 | 83 | -.5 ELZ .866 ELX -.5 |
| 64 | 0.9D - 1.0.. | Yes | Y | | 1 | .9 | 39 | .9 | 81 | -1 | ELY | -1 | 82 | 1 | 83 | ELZ 1 ELX |
| 65 | 0.9D - 1.0.. | Yes | Y | | 1 | .9 | 39 | .9 | 81 | -1 | ELY | -1 | 82 | .866 | 83 | .5 ELZ .866 ELX .5 |
| 66 | 0.9D - 1.0.. | Yes | Y | | 1 | .9 | 39 | .9 | 81 | -1 | ELY | -1 | 82 | .5 | 83 | .866 ELZ .5 ELX .866 |
| 67 | 0.9D - 1.0.. | Yes | Y | | 1 | .9 | 39 | .9 | 81 | -1 | ELY | -1 | 82 | | 83 | 1 ELZ ELX 1 |
| 68 | 0.9D - 1.0.. | Yes | Y | | 1 | .9 | 39 | .9 | 81 | -1 | ELY | -1 | 82 | -.5 | 83 | .866 ELZ -.5 ELX .866 |
| 69 | 0.9D - 1.0.. | Yes | Y | | 1 | .9 | 39 | .9 | 81 | -1 | ELY | -1 | 82 | -.866 | 83 | .5 ELZ -.866 ELX .5 |
| 70 | 0.9D - 1.0.. | Yes | Y | | 1 | .9 | 39 | .9 | 81 | -1 | ELY | -1 | 82 | -1 | 83 | ELZ -1 ELX |
| 71 | 0.9D - 1.0.. | Yes | Y | | 1 | .9 | 39 | .9 | 81 | -1 | ELY | -1 | 82 | -.866 | 83 | -.5 ELZ -.866 ELX -.5 |
| 72 | 0.9D - 1.0.. | Yes | Y | | 1 | .9 | 39 | .9 | 81 | -1 | ELY | -1 | 82 | -.5 | 83 | -.866 ELZ -.5 ELX -.866 |
| 73 | 0.9D - 1.0.. | Yes | Y | | 1 | .9 | 39 | .9 | 81 | -1 | ELY | -1 | 82 | | 83 | -1 ELZ ELX -1 |
| 74 | 0.9D - 1.0.. | Yes | Y | | 1 | .9 | 39 | .9 | 81 | -1 | ELY | -1 | 82 | .5 | 83 | -.866 ELZ .5 ELX -.866 |



Load Combinations (Continued)

| | Description | Sol. | PD | SR | BLC Fact. | BLC Fact. | BLC Fact. | BLC Fact. | BLC Fact. | BLC Fact. | BLC Fact. | BLC Fact. | BLC Fact. | BLC Fact. | | | | | | |
|----|---------------|------|----|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|----|-----|------|-----|----|
| 75 | 0.9D - 1.0... | Yes | Y | | 1 | .9 | .39 | .9 | .81 | -1 | ELY | -1 | .82 | .866 | .83 | -5 | ELZ | .866 | ELX | -5 |

Hot Rolled Steel Section Sets

| Label | Shape | Type | Design List | Material | Design Rules | A [in2] | Iyy [in4] | Izz [in4] | J [in4] | |
|-------|-----------------|------------|-------------|--------------|----------------|---------|-----------|-----------|---------|------|
| 1 | Mount Pipe | PIPE 2.0 | Column | Pipe | A53 Gr.B | Typical | 1.02 | .627 | .627 | 1.25 |
| 2 | Mount Pipe ... | PIPE 2.5 | Column | Pipe | A53 Gr.B | Typical | 1.61 | 1.45 | 1.45 | 2.89 |
| 3 | Crossmemb... | PL1/4x3.5 | Beam | RECT | A36 Gr.36 | Typical | .875 | .005 | .893 | .017 |
| 4 | Corner Plate | PL1/2x9 | Beam | RECT | A36 Gr.36 | Typical | 4.5 | .094 | 30.375 | .362 |
| 5 | Platfrom Sta... | HSS4X4X5 | Beam | SquareTube | A500 Gr.B R... | Typical | 4.1 | 9.14 | 9.14 | 15.3 |
| 6 | Platfrom Cro... | C6X8.2 | Beam | Channel | A36 Gr.36 | Typical | 2.39 | .687 | 13.1 | .074 |
| 7 | Platform Gra... | L4X4X4 | Beam | Single Angle | A36 Gr.36 | Typical | 1.93 | 3 | 3 | .044 |
| 8 | Platform Fac... | C6X8.2 | Beam | Channel | A36 Gr.36 | Typical | 2.39 | .687 | 13.1 | .074 |
| 9 | Connection ... | PL1/4x3.5 | Beam | RECT | A36 Gr.36 | Typical | .875 | .005 | .893 | .017 |
| 10 | Face Horizo... | PIPE 2.0 | Beam | Pipe | A53 Gr.B | Typical | 1.02 | .627 | .627 | 1.25 |
| 11 | Face Bracing | L1.5x1.5x3 | Column | Single Angle | A36 Gr.36 | Typical | .527 | .11 | .11 | .006 |
| 12 | Platfrom Co... | PIPE 2.0 | Column | Pipe | A53 Gr.B | Typical | 1.02 | .627 | .627 | 1.25 |
| 13 | Tieback | PIPE 2.0 | Beam | Pipe | A53 Gr.B | Typical | 1.02 | .627 | .627 | 1.25 |
| 14 | GPS Pipe | PIPE_1.25 | Column | Pipe | A53 Gr.B | Typical | .625 | .184 | .184 | .368 |

Hot Rolled Steel Properties

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

Member Primary Data

| Label | I Joint | J Joint | K Joint | Rotate(d... | Section/Sh... | Type | Design List | Material | Design Rules |
|-------|---------|---------|---------|-------------|-----------------|------|--------------|----------------|--------------|
| 1 | M73 | N142A | N141A | 180 | Platfrom Fa... | Beam | Channel | A36 Gr.36 | Typical |
| 2 | M76 | N153A | N154A | | Platfrom Sta... | Beam | SquareTube | A500 Gr.B Rect | Typical |
| 3 | M77 | N161B | N162A | 180 | Platfrom Cr... | Beam | Channel | A36 Gr.36 | Typical |
| 4 | M78 | N162 | N161B | | Crossmemb... | Beam | RECT | A36 Gr.36 | Typical |
| 5 | M79 | N162A | N158 | | Crossmemb... | Beam | RECT | A36 Gr.36 | Typical |
| 6 | M80 | N164 | N163 | | RIGID | None | None | RIGID | Typical |
| 7 | M81 | N170 | N169 | | RIGID | None | None | RIGID | Typical |
| 8 | M82 | N169A | N168 | | RIGID | None | None | RIGID | Typical |
| 9 | M83 | N170A | N168A | | RIGID | None | None | RIGID | Typical |
| 10 | M84 | N170 | N169A | 90 | Corner Plate | Beam | RECT | A36 Gr.36 | Typical |
| 11 | M11 | N22 | N23 | | Platfrom Sta... | Beam | SquareTube | A500 Gr.B Rect | Typical |
| 12 | M20 | N40 | N41 | | Platfrom Sta... | Beam | SquareTube | A500 Gr.B Rect | Typical |
| 13 | M24 | N47 | N46 | | RIGID | None | None | RIGID | Typical |
| 14 | M24B | N40B | N46B | 180 | Platform Gr... | Beam | Single Angle | A36 Gr.36 | Typical |
| 15 | M26A | N46A | N45 | | RIGID | None | None | RIGID | Typical |
| 16 | M26B | N41B | N47A | 90 | Platform Gr... | Beam | Single Angle | A36 Gr.36 | Typical |
| 17 | M27A | N46B | N42A | 180 | Crossmemb... | Beam | RECT | A36 Gr.36 | Typical |
| 18 | M28A | N47A | N45A | | Crossmemb... | Beam | RECT | A36 Gr.36 | Typical |
| 19 | M29 | N49A | N48A | | RIGID | None | None | RIGID | Typical |
| 20 | M20A | N38 | N35 | | RIGID | None | None | RIGID | Typical |
| 21 | M21 | N37 | N34 | | RIGID | None | None | RIGID | Typical |



Member Primary Data (Continued)

| | Label | I Joint | J Joint | K Joint | Rotate(d... | Section/Sh... | Type | Design List | Material | Design Rules |
|----|-------|---------|---------|---------|-------------|-----------------|--------|--------------|----------------|--------------|
| 22 | M22 | N39 | N36 | | | RIGID | None | None | RIGID | Typical |
| 23 | M23 | N38 | N37 | | 90 | Corner Plate | Beam | RECT | A36 Gr.36 | Typical |
| 24 | M24A | N44 | N41A | | | RIGID | None | None | RIGID | Typical |
| 25 | M25 | N43 | N40A | | | RIGID | None | None | RIGID | Typical |
| 26 | M26 | N45B | N42 | | | RIGID | None | None | RIGID | Typical |
| 27 | M27 | N44 | N43 | | 90 | Corner Plate | Beam | RECT | A36 Gr.36 | Typical |
| 28 | M28 | N47B | N46C | | 180 | Platform Fa... | Beam | Channel | A36 Gr.36 | Typical |
| 29 | M29A | N49 | N48 | | 180 | Platform Fa... | Beam | Channel | A36 Gr.36 | Typical |
| 30 | M30 | N49A | N50 | | | Connection ... | Beam | RECT | A36 Gr.36 | Typical |
| 31 | M32 | N52 | N53 | | | Connection ... | Beam | RECT | A36 Gr.36 | Typical |
| 32 | M34 | N55 | N56 | | | Connection ... | Beam | RECT | A36 Gr.36 | Typical |
| 33 | M36 | N58 | N59 | | | Connection ... | Beam | RECT | A36 Gr.36 | Typical |
| 34 | M38 | N61 | N62 | | | Connection ... | Beam | RECT | A36 Gr.36 | Typical |
| 35 | M40 | N64 | N65 | | | Connection ... | Beam | RECT | A36 Gr.36 | Typical |
| 36 | M41 | N50 | N59 | | | RIGID | None | None | RIGID | Typical |
| 37 | M37 | N52 | N51 | | | RIGID | None | None | RIGID | Typical |
| 38 | M38A | N55 | N54 | | | RIGID | None | None | RIGID | Typical |
| 39 | M39 | N58 | N57 | | | RIGID | None | None | RIGID | Typical |
| 40 | M40A | N61 | N60 | | | RIGID | None | None | RIGID | Typical |
| 41 | M41A | N64 | N63 | | | RIGID | None | None | RIGID | Typical |
| 42 | M42 | N56 | N65 | | | RIGID | None | None | RIGID | Typical |
| 43 | M43 | N62 | N53 | | | RIGID | None | None | RIGID | Typical |
| 44 | M44 | N66 | N67 | | | RIGID | None | None | RIGID | Typical |
| 45 | M45 | N68 | N69 | | | RIGID | None | None | RIGID | Typical |
| 46 | M46 | N70 | N71 | | | RIGID | None | None | RIGID | Typical |
| 47 | R2 | N73 | N72 | | | Platform Co... | Column | Pipe | A53 Gr.B | Typical |
| 48 | R1 | N75 | N74 | | | Platform Co... | Column | Pipe | A53 Gr.B | Typical |
| 49 | R3 | N77 | N76 | | | Platform Co... | Column | Pipe | A53 Gr.B | Typical |
| 50 | M50 | N79 | N78 | | | RIGID | None | None | RIGID | Typical |
| 51 | M51 | N81 | N80 | | | RIGID | None | None | RIGID | Typical |
| 52 | M53 | N85 | N84 | | 180 | Platform Fa... | Beam | Channel | A36 Gr.36 | Typical |
| 53 | M54 | N86 | N87 | | | Platform Sta... | Beam | SquareTube | A500 Gr.B Rect | Typical |
| 54 | M55 | N90 | N91 | | 180 | Platform Cr... | Beam | Channel | A36 Gr.36 | Typical |
| 55 | M56 | N89 | N90 | | | Crossmemb... | Beam | RECT | A36 Gr.36 | Typical |
| 56 | M57 | N91 | N88 | | | Crossmemb... | Beam | RECT | A36 Gr.36 | Typical |
| 57 | M58 | N93 | N92 | | | RIGID | None | None | RIGID | Typical |
| 58 | M59 | N98 | N95 | | | RIGID | None | None | RIGID | Typical |
| 59 | M60 | N97 | N94 | | | RIGID | None | None | RIGID | Typical |
| 60 | M61 | N99 | N96 | | | RIGID | None | None | RIGID | Typical |
| 61 | M62 | N98 | N97 | | 90 | Corner Plate | Beam | RECT | A36 Gr.36 | Typical |
| 62 | M63 | N100 | N101 | | | Platform Sta... | Beam | SquareTube | A500 Gr.B Rect | Typical |
| 63 | M64 | N102 | N103 | | | Platform Sta... | Beam | SquareTube | A500 Gr.B Rect | Typical |
| 64 | M65 | N105 | N104 | | | RIGID | None | None | RIGID | Typical |
| 65 | M66 | N106 | N112 | | 180 | Platform Gr... | Beam | Single Angle | A36 Gr.36 | Typical |
| 66 | M67 | N110 | N109 | | | RIGID | None | None | RIGID | Typical |
| 67 | M68 | N107 | N113 | | 90 | Platform Gr... | Beam | Single Angle | A36 Gr.36 | Typical |
| 68 | M69 | N112 | N108 | | 180 | Crossmemb... | Beam | RECT | A36 Gr.36 | Typical |
| 69 | M70 | N113 | N111 | | | Crossmemb... | Beam | RECT | A36 Gr.36 | Typical |
| 70 | M71 | N115 | N114 | | | RIGID | None | None | RIGID | Typical |
| 71 | M72 | N120 | N117 | | | RIGID | None | None | RIGID | Typical |
| 72 | M73A | N119 | N116 | | | RIGID | None | None | RIGID | Typical |
| 73 | M74 | N121 | N118 | | | RIGID | None | None | RIGID | Typical |
| 74 | M75 | N120 | N119 | | 90 | Corner Plate | Beam | RECT | A36 Gr.36 | Typical |
| 75 | M76A | N126 | N123 | | | RIGID | None | None | RIGID | Typical |
| 76 | M77A | N125 | N122 | | | RIGID | None | None | RIGID | Typical |
| 77 | M78A | N127 | N124 | | | RIGID | None | None | RIGID | Typical |
| 78 | M79A | N126 | N125 | | 90 | Corner Plate | Beam | RECT | A36 Gr.36 | Typical |



Member Primary Data (Continued)

| | Label | I Joint | J Joint | K Joint | Rotate(d... | Section/Sh... | Type | Design List | Material | Design Rules |
|-----|-------|---------|---------|---------|-------------|----------------|--------|-------------|-----------|--------------|
| 79 | M80A | N129 | N128 | | 180 | Platfrom Fa... | Beam | Channel | A36 Gr.36 | Typical |
| 80 | M81A | N131 | N130 | | 180 | Platfrom Fa... | Beam | Channel | A36 Gr.36 | Typical |
| 81 | M82A | N115 | N132 | | | Connection ... | Beam | RECT | A36 Gr.36 | Typical |
| 82 | M83A | N134 | N135 | | | Connection ... | Beam | RECT | A36 Gr.36 | Typical |
| 83 | M84A | N137 | N138 | | | Connection ... | Beam | RECT | A36 Gr.36 | Typical |
| 84 | M85 | N140 | N141 | | | Connection ... | Beam | RECT | A36 Gr.36 | Typical |
| 85 | M86 | N143 | N144 | | | Connection ... | Beam | RECT | A36 Gr.36 | Typical |
| 86 | M87 | N146 | N147 | | | Connection ... | Beam | RECT | A36 Gr.36 | Typical |
| 87 | M88 | N132 | N141 | | | RIGID | None | None | RIGID | Typical |
| 88 | M89 | N134 | N133 | | | RIGID | None | None | RIGID | Typical |
| 89 | M90 | N137 | N136 | | | RIGID | None | None | RIGID | Typical |
| 90 | M91 | N140 | N139 | | | RIGID | None | None | RIGID | Typical |
| 91 | M92 | N143 | N142 | | | RIGID | None | None | RIGID | Typical |
| 92 | M93 | N146 | N145 | | | RIGID | None | None | RIGID | Typical |
| 93 | M94 | N138 | N147 | | | RIGID | None | None | RIGID | Typical |
| 94 | M95 | N144 | N135 | | | RIGID | None | None | RIGID | Typical |
| 95 | M96 | N148 | N82 | | | RIGID | None | None | RIGID | Typical |
| 96 | M97 | N150 | N151 | | | RIGID | None | None | RIGID | Typical |
| 97 | M98 | N152 | N153 | | | RIGID | None | None | RIGID | Typical |
| 98 | M99 | N154 | N153B | | | Face Horizo... | Beam | Pipe | A53 Gr.B | Typical |
| 99 | M100 | N157 | N156 | | | Face Horizo... | Beam | Pipe | A53 Gr.B | Typical |
| 100 | M100A | N157A | N156A | | | RIGID | None | None | RIGID | Typical |
| 101 | M101 | N159 | N158A | | | Face Horizo... | Beam | Pipe | A53 Gr.B | Typical |
| 102 | M102 | N160 | N161 | | | RIGID | None | None | RIGID | Typical |
| 103 | M103 | N162B | N163A | | | RIGID | None | None | RIGID | Typical |
| 104 | MP1A | N164A | N165 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 105 | M105 | N166 | N167 | | | RIGID | None | None | RIGID | Typical |
| 106 | M106 | N168B | N169B | | | RIGID | None | None | RIGID | Typical |
| 107 | MP2A | N170B | N171 | | | Mount Pipe ... | Column | Pipe | A53 Gr.B | Typical |
| 108 | M108 | N79 | N173 | | | RIGID | None | None | RIGID | Typical |
| 109 | M109 | N81 | N175 | | | RIGID | None | None | RIGID | Typical |
| 110 | MP3A | N176 | N177 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 111 | M111 | N178 | N179 | | | RIGID | None | None | RIGID | Typical |
| 112 | M112 | N180 | N181 | | | RIGID | None | None | RIGID | Typical |
| 113 | MP4A | N182 | N183 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 114 | M114 | N184 | N185 | | | RIGID | None | None | RIGID | Typical |
| 115 | M115 | N186 | N187 | | | RIGID | None | None | RIGID | Typical |
| 116 | MP5A | N188 | N189 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 117 | M117 | N188A | N189A | | | RIGID | None | None | RIGID | Typical |
| 118 | M118 | N190 | N191 | | | RIGID | None | None | RIGID | Typical |
| 119 | M119 | N193 | N192 | | | RIGID | None | None | RIGID | Typical |
| 120 | M120 | N195 | N194 | | | RIGID | None | None | RIGID | Typical |
| 121 | M121 | N197 | N196 | | | Face Horizo... | Beam | Pipe | A53 Gr.B | Typical |
| 122 | M122 | N199 | N198 | | | Face Horizo... | Beam | Pipe | A53 Gr.B | Typical |
| 123 | M123 | N201 | N200 | | | RIGID | None | None | RIGID | Typical |
| 124 | M124 | N203 | N202 | | | Face Horizo... | Beam | Pipe | A53 Gr.B | Typical |
| 125 | M125 | N204 | N205 | | | RIGID | None | None | RIGID | Typical |
| 126 | M126 | N206 | N207 | | | RIGID | None | None | RIGID | Typical |
| 127 | MP1C | N208 | N209 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 128 | M128 | N210 | N211 | | | RIGID | None | None | RIGID | Typical |
| 129 | M129 | N212 | N213 | | | RIGID | None | None | RIGID | Typical |
| 130 | MP2C | N214 | N215 | | | Mount Pipe ... | Column | Pipe | A53 Gr.B | Typical |
| 131 | M131 | N193 | N216 | | | RIGID | None | None | RIGID | Typical |
| 132 | M132 | N195 | N217 | | | RIGID | None | None | RIGID | Typical |
| 133 | MP3C | N218 | N219 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 134 | M134 | N220 | N221 | | | RIGID | None | None | RIGID | Typical |
| 135 | M135 | N222 | N223 | | | RIGID | None | None | RIGID | Typical |



Member Primary Data (Continued)

| | Label | I Joint | J Joint | K Joint | Rotate(d... | Section/Sh... | Type | Design List | Material | Design Rules |
|-----|-------|---------|---------|---------|-------------|----------------|--------|--------------|-----------|--------------|
| 136 | MP4C | N224 | N225 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 137 | M137 | N226 | N227 | | | RIGID | None | None | RIGID | Typical |
| 138 | M138 | N228 | N229 | | | RIGID | None | None | RIGID | Typical |
| 139 | MP5C | N230 | N231 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 140 | M140 | N232 | N233 | | | RIGID | None | None | RIGID | Typical |
| 141 | M141 | N234 | N235 | | | RIGID | None | None | RIGID | Typical |
| 142 | M142 | N237 | N236 | | | RIGID | None | None | RIGID | Typical |
| 143 | M143 | N239 | N238 | | | RIGID | None | None | RIGID | Typical |
| 144 | M144 | N241 | N240 | | | Face Horizo... | Beam | Pipe | A53 Gr.B | Typical |
| 145 | M145 | N243 | N242 | | | Face Horizo... | Beam | Pipe | A53 Gr.B | Typical |
| 146 | M146 | N245 | N244 | | | RIGID | None | None | RIGID | Typical |
| 147 | M147 | N247 | N246 | | | Face Horizo... | Beam | Pipe | A53 Gr.B | Typical |
| 148 | M148 | N248 | N249 | | | RIGID | None | None | RIGID | Typical |
| 149 | M149 | N250 | N251 | | | RIGID | None | None | RIGID | Typical |
| 150 | MP1B | N252 | N253 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 151 | M151 | N254 | N255 | | | RIGID | None | None | RIGID | Typical |
| 152 | M152 | N256 | N257 | | | RIGID | None | None | RIGID | Typical |
| 153 | MP2B | N258 | N259 | | | Mount Pipe ... | Column | Pipe | A53 Gr.B | Typical |
| 154 | M154 | N237 | N260 | | | RIGID | None | None | RIGID | Typical |
| 155 | M155 | N239 | N261 | | | RIGID | None | None | RIGID | Typical |
| 156 | MP3B | N262 | N263 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 157 | M157 | N264 | N265 | | | RIGID | None | None | RIGID | Typical |
| 158 | M158 | N266 | N267 | | | RIGID | None | None | RIGID | Typical |
| 159 | MP4B | N268 | N269 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 160 | M160 | N270 | N271 | | | RIGID | None | None | RIGID | Typical |
| 161 | M161 | N272 | N273 | | | RIGID | None | None | RIGID | Typical |
| 162 | MP5B | N274 | N275 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 163 | M163 | N276 | N277 | | | RIGID | None | None | RIGID | Typical |
| 164 | M164 | N278 | N279 | | | RIGID | None | None | RIGID | Typical |
| 165 | M165 | N280 | N282 | | | RIGID | None | None | RIGID | Typical |
| 166 | M166 | N283 | N281 | | | RIGID | None | None | RIGID | Typical |
| 167 | M167 | N281 | N284 | | | RIGID | None | None | RIGID | Typical |
| 168 | M168 | N285 | N286 | | | RIGID | None | None | RIGID | Typical |
| 169 | M169 | N283 | N282 | | 180 | Face Bracing | Column | Single Angle | A36 Gr.36 | Typical |
| 170 | M170 | N284 | N285 | | 90 | Face Bracing | Column | Single Angle | A36 Gr.36 | Typical |
| 171 | M171 | N287 | N289 | | | RIGID | None | None | RIGID | Typical |
| 172 | M172 | N290 | N288 | | | RIGID | None | None | RIGID | Typical |
| 173 | M173 | N288 | N291 | | | RIGID | None | None | RIGID | Typical |
| 174 | M174 | N292 | N293 | | | RIGID | None | None | RIGID | Typical |
| 175 | M175 | N290 | N289 | | 180 | Face Bracing | Column | Single Angle | A36 Gr.36 | Typical |
| 176 | M176 | N291 | N292 | | 90 | Face Bracing | Column | Single Angle | A36 Gr.36 | Typical |
| 177 | M177 | N294 | N296 | | | RIGID | None | None | RIGID | Typical |
| 178 | M178 | N297 | N295 | | | RIGID | None | None | RIGID | Typical |
| 179 | M179 | N295 | N298 | | | RIGID | None | None | RIGID | Typical |
| 180 | M180 | N299 | N300 | | | RIGID | None | None | RIGID | Typical |
| 181 | M181 | N297 | N296 | | 180 | Face Bracing | Column | Single Angle | A36 Gr.36 | Typical |
| 182 | M182 | N298 | N299 | | 90 | Face Bracing | Column | Single Angle | A36 Gr.36 | Typical |
| 183 | M183 | N307 | N303 | | | Tieback | Beam | Pipe | A53 Gr.B | Typical |
| 184 | M184 | N310 | N304 | | | Tieback | Beam | Pipe | A53 Gr.B | Typical |
| 185 | M185 | N308 | N306 | | | Tieback | Beam | Pipe | A53 Gr.B | Typical |
| 186 | M186 | N312 | N301 | | | Tieback | Beam | Pipe | A53 Gr.B | Typical |
| 187 | M187 | N309 | N302 | | | Tieback | Beam | Pipe | A53 Gr.B | Typical |
| 188 | M188 | N311 | N305 | | | Tieback | Beam | Pipe | A53 Gr.B | Typical |
| 189 | M189 | N315 | N313 | | | RIGID | None | None | RIGID | Typical |
| 190 | M190 | N316 | N314 | | | RIGID | None | None | RIGID | Typical |
| 191 | GPS | N318 | N317 | | | GPS Pipe | Column | Pipe | A53 Gr.B | 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 | M73 | | | | | | Yes | Default | | | None |
| 2 | M76 | | | | | | Yes | | | | None |
| 3 | M77 | | | | | | Yes | | | | None |
| 4 | M78 | | | | | | Yes | | | | None |
| 5 | M79 | | | | | | Yes | | | | None |
| 6 | M80 | | AIIPIN | | | Compres... | Yes | ** NA ** | | | None |
| 7 | M81 | | | | | | Yes | ** NA ** | | | None |
| 8 | M82 | | | | | | Yes | ** NA ** | | | None |
| 9 | M83 | | | | | | Yes | ** NA ** | | | None |
| 10 | M84 | | | | | | Yes | | | | None |
| 11 | M11 | | | | | | Yes | | | | None |
| 12 | M20 | | | | | | Yes | | | | None |
| 13 | M24 | | AIIPIN | | | Compres... | Yes | ** NA ** | | | None |
| 14 | M24B | | | | | | Yes | | | | None |
| 15 | M26A | | AIIPIN | | | Compres... | Yes | ** NA ** | | | None |
| 16 | M26B | | | | | | Yes | | | | None |
| 17 | M27A | | | | | | Yes | | | | None |
| 18 | M28A | | | | | | Yes | | | | None |
| 19 | M29 | | | | | | Yes | ** NA ** | | | None |
| 20 | M20A | | | | | | Yes | ** NA ** | | | None |
| 21 | M21 | | | | | | Yes | ** NA ** | | | None |
| 22 | M22 | | | | | | Yes | ** NA ** | | | None |
| 23 | M23 | | | | | | Yes | | | | None |
| 24 | M24A | | | | | | Yes | ** NA ** | | | None |
| 25 | M25 | | | | | | Yes | ** NA ** | | | None |
| 26 | M26 | | | | | | Yes | ** NA ** | | | None |
| 27 | M27 | | | | | | Yes | | | | None |
| 28 | M28 | | | | | | Yes | | | | None |
| 29 | M29A | | | | | | Yes | | | | None |
| 30 | M30 | | | | | | Yes | | | | None |
| 31 | M32 | | | | | | Yes | | | | None |
| 32 | M34 | | | | | | Yes | | | | None |
| 33 | M36 | | | | | | Yes | | | | None |
| 34 | M38 | | | | | | Yes | | | | None |
| 35 | M40 | | | | | | Yes | | | | None |
| 36 | M41 | | | | | | Yes | ** NA ** | | | None |
| 37 | M37 | | | | | | Yes | ** NA ** | | | None |
| 38 | M38A | | | | | | Yes | ** NA ** | | | None |
| 39 | M39 | | | | | | Yes | ** NA ** | | | None |
| 40 | M40A | | | | | | Yes | ** NA ** | | | None |
| 41 | M41A | | | | | | Yes | ** NA ** | | | None |
| 42 | M42 | | | | | | Yes | ** NA ** | | | None |
| 43 | M43 | | | | | | Yes | ** NA ** | | | None |
| 44 | M44 | | | | | | Yes | ** NA ** | | | None |
| 45 | M45 | | | | | | Yes | ** NA ** | | | None |
| 46 | M46 | | | | | | Yes | ** NA ** | | | None |
| 47 | R2 | | | | | | Yes | ** NA ** | | | None |
| 48 | R1 | | | | | | Yes | ** NA ** | | | None |
| 49 | R3 | | | | | | Yes | ** NA ** | | | None |
| 50 | M50 | | OOOOOO | | | | Yes | ** NA ** | | | None |
| 51 | M51 | | OOOOOO | | | | Yes | ** NA ** | | | None |
| 52 | M53 | | | | | | Yes | Default | | | None |
| 53 | M54 | | | | | | Yes | | | | None |
| 54 | M55 | | | | | | Yes | | | | None |
| 55 | M56 | | | | | | Yes | | | | None |
| 56 | M57 | | | | | | Yes | | | | None |



Member Advanced Data (Continued)

| | Label | I Release | J Release | I Offset[in] | J Offset[in] | T/C Only | Physical | Defl Rat.. | Analysis ... | Inactive | Seismic.. |
|-----|-------|-----------|-----------|--------------|--------------|------------|----------|------------|--------------|----------|-----------|
| 57 | M58 | | AII PIN | | | Compres... | Yes | ** NA ** | | | None |
| 58 | M59 | | | | | | Yes | ** NA ** | | | None |
| 59 | M60 | | | | | | Yes | ** NA ** | | | None |
| 60 | M61 | | | | | | Yes | ** NA ** | | | None |
| 61 | M62 | | | | | | Yes | | | | None |
| 62 | M63 | | | | | | Yes | | | | None |
| 63 | M64 | | | | | | Yes | | | | None |
| 64 | M65 | | AII PIN | | | Compres... | Yes | ** NA ** | | | None |
| 65 | M66 | | | | | | Yes | | | | None |
| 66 | M67 | | AII PIN | | | Compres... | Yes | ** NA ** | | | None |
| 67 | M68 | | | | | | Yes | | | | None |
| 68 | M69 | | | | | | Yes | | | | None |
| 69 | M70 | | | | | | Yes | | | | None |
| 70 | M71 | | | | | | Yes | ** NA ** | | | None |
| 71 | M72 | | | | | | Yes | ** NA ** | | | None |
| 72 | M73A | | | | | | Yes | ** NA ** | | | None |
| 73 | M74 | | | | | | Yes | ** NA ** | | | None |
| 74 | M75 | | | | | | Yes | | | | None |
| 75 | M76A | | | | | | Yes | ** NA ** | | | None |
| 76 | M77A | | | | | | Yes | ** NA ** | | | None |
| 77 | M78A | | | | | | Yes | ** NA ** | | | None |
| 78 | M79A | | | | | | Yes | | | | None |
| 79 | M80A | | | | | | Yes | | | | None |
| 80 | M81A | | | | | | Yes | | | | None |
| 81 | M82A | | | | | | Yes | Default | | | None |
| 82 | M83A | | | | | | Yes | | | | None |
| 83 | M84A | | | | | | Yes | | | | None |
| 84 | M85 | | | | | | Yes | Default | | | None |
| 85 | M86 | | | | | | Yes | | | | None |
| 86 | M87 | | | | | | Yes | | | | None |
| 87 | M88 | | | | | | Yes | ** NA ** | | | None |
| 88 | M89 | | | | | | Yes | ** NA ** | | | None |
| 89 | M90 | | | | | | Yes | ** NA ** | | | None |
| 90 | M91 | | | | | | Yes | ** NA ** | | | None |
| 91 | M92 | | | | | | Yes | ** NA ** | | | None |
| 92 | M93 | | | | | | Yes | ** NA ** | | | None |
| 93 | M94 | | | | | | Yes | ** NA ** | | | None |
| 94 | M95 | | | | | | Yes | ** NA ** | | | None |
| 95 | M96 | | | | | | Yes | ** NA ** | | | None |
| 96 | M97 | | | | | | Yes | ** NA ** | | | None |
| 97 | M98 | | | | | | Yes | ** NA ** | | | None |
| 98 | M99 | | | | | | Yes | Default | | | None |
| 99 | M100 | | | | | | Yes | | | | None |
| 100 | M100A | | 000000 | | | | Yes | ** NA ** | | | None |
| 101 | M101 | | | | | | Yes | | | | None |
| 102 | M102 | | | | | | Yes | ** NA ** | | | None |
| 103 | M103 | | | | | | Yes | ** NA ** | | | None |
| 104 | MP1A | | | | | | Yes | ** NA ** | | | None |
| 105 | M105 | | | | | | Yes | ** NA ** | | | None |
| 106 | M106 | | | | | | Yes | ** NA ** | | | None |
| 107 | MP2A | | | | | | Yes | ** NA ** | | | None |
| 108 | M108 | | | | | | Yes | ** NA ** | | | None |
| 109 | M109 | | | | | | Yes | ** NA ** | | | None |
| 110 | MP3A | | | | | | Yes | ** NA ** | | | None |
| 111 | M111 | | | | | | Yes | ** NA ** | | | None |
| 112 | M112 | | | | | | Yes | ** NA ** | | | None |
| 113 | MP4A | | | | | | Yes | ** NA ** | | | None |



Member Advanced Data (Continued)

| | Label | I Release | J Release | I Offset[in] | J Offset[in] | T/C Only | Physical | Defl Rat... | Analysis ... | Inactive | Seismic... |
|-----|-------|-----------|-----------|--------------|--------------|----------|----------|-------------|--------------|----------|------------|
| 114 | M114 | | | | | | Yes | ** NA ** | | | None |
| 115 | M115 | | | | | | Yes | ** NA ** | | | None |
| 116 | MP5A | | | | | | Yes | ** NA ** | | | None |
| 117 | M117 | | | | | | Yes | ** NA ** | | | None |
| 118 | M118 | | | | | | Yes | ** NA ** | | | None |
| 119 | M119 | | 000000 | | | | Yes | ** NA ** | | | None |
| 120 | M120 | | 000000 | | | | Yes | ** NA ** | | | None |
| 121 | M121 | | | | | | Yes | | | | None |
| 122 | M122 | | | | | | Yes | | | | None |
| 123 | M123 | | 000000 | | | | Yes | ** NA ** | | | None |
| 124 | M124 | | | | | | Yes | | | | None |
| 125 | M125 | | | | | | Yes | ** NA ** | | | None |
| 126 | M126 | | | | | | Yes | ** NA ** | | | None |
| 127 | MP1C | | | | | | Yes | ** NA ** | | | None |
| 128 | M128 | | | | | | Yes | ** NA ** | | | None |
| 129 | M129 | | | | | | Yes | ** NA ** | | | None |
| 130 | MP2C | | | | | | Yes | ** NA ** | | | None |
| 131 | M131 | | | | | | Yes | ** NA ** | | | None |
| 132 | M132 | | | | | | Yes | ** NA ** | | | None |
| 133 | MP3C | | | | | | Yes | ** NA ** | | | None |
| 134 | M134 | | | | | | Yes | ** NA ** | | | None |
| 135 | M135 | | | | | | Yes | ** NA ** | | | None |
| 136 | MP4C | | | | | | Yes | ** NA ** | | | None |
| 137 | M137 | | | | | | Yes | ** NA ** | | | None |
| 138 | M138 | | | | | | Yes | ** NA ** | | | None |
| 139 | MP5C | | | | | | Yes | ** NA ** | | | None |
| 140 | M140 | | | | | | Yes | ** NA ** | | | None |
| 141 | M141 | | | | | | Yes | ** NA ** | | | None |
| 142 | M142 | | 000000 | | | | Yes | ** NA ** | | | None |
| 143 | M143 | | 000000 | | | | Yes | ** NA ** | | | None |
| 144 | M144 | | | | | | Yes | | | | None |
| 145 | M145 | | | | | | Yes | | | | None |
| 146 | M146 | | 000000 | | | | Yes | ** NA ** | | | None |
| 147 | M147 | | | | | | Yes | | | | None |
| 148 | M148 | | | | | | Yes | ** NA ** | | | None |
| 149 | M149 | | | | | | Yes | ** NA ** | | | None |
| 150 | MP1B | | | | | | Yes | ** NA ** | | | None |
| 151 | M151 | | | | | | Yes | ** NA ** | | | None |
| 152 | M152 | | | | | | Yes | ** NA ** | | | None |
| 153 | MP2B | | | | | | Yes | ** NA ** | | | None |
| 154 | M154 | | | | | | Yes | ** NA ** | | | None |
| 155 | M155 | | | | | | Yes | ** NA ** | | | None |
| 156 | MP3B | | | | | | Yes | ** NA ** | | | None |
| 157 | M157 | | | | | | Yes | ** NA ** | | | None |
| 158 | M158 | | | | | | Yes | ** NA ** | | | None |
| 159 | MP4B | | | | | | Yes | ** NA ** | | | None |
| 160 | M160 | | | | | | Yes | ** NA ** | | | None |
| 161 | M161 | | | | | | Yes | ** NA ** | | | None |
| 162 | MP5B | | | | | | Yes | ** NA ** | | | None |
| 163 | M163 | | | | | | Yes | ** NA ** | | | None |
| 164 | M164 | | | | | | Yes | ** NA ** | | | None |
| 165 | M165 | | | | | | Yes | ** NA ** | | | None |
| 166 | M166 | | | | | | Yes | ** NA ** | | | None |
| 167 | M167 | | | | | | Yes | ** NA ** | | | None |
| 168 | M168 | | | | | | Yes | ** NA ** | | | None |
| 169 | M169 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 170 | M170 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |



Member Advanced Data (Continued)

| | Label | I Release | J Release | I Offset[in] | J Offset[in] | T/C Only | Physical | Defl Rat.. | Analysis ... | Inactive | Seismic... |
|-----|-------|-----------|-----------|--------------|--------------|----------|----------|------------|--------------|----------|------------|
| 171 | M171 | | | | | | Yes | ** NA ** | | | None |
| 172 | M172 | | | | | | Yes | ** NA ** | | | None |
| 173 | M173 | | | | | | Yes | ** NA ** | | | None |
| 174 | M174 | | | | | | Yes | ** NA ** | | | None |
| 175 | M175 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 176 | M176 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 177 | M177 | | | | | | Yes | ** NA ** | | | None |
| 178 | M178 | | | | | | Yes | ** NA ** | | | None |
| 179 | M179 | | | | | | Yes | ** NA ** | | | None |
| 180 | M180 | | | | | | Yes | ** NA ** | | | None |
| 181 | M181 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 182 | M182 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 183 | M183 | OOOOXO | OOOOXO | | | | Yes | | | | None |
| 184 | M184 | OOOOXO | OOOOXO | | | | Yes | | | | None |
| 185 | M185 | OOOOXO | OOOOXO | | | | Yes | | | | None |
| 186 | M186 | OOOOXO | OOOOXO | | | | Yes | | | | None |
| 187 | M187 | OOOOXO | OOOOXO | | | | Yes | | | | None |
| 188 | M188 | OOOOXO | OOOOXO | | | | Yes | | | | None |
| 189 | M189 | OOOXOX | | | | | Yes | ** NA ** | | | None |
| 190 | M190 | OOOXOX | | | | | Yes | ** NA ** | | | None |
| 191 | GPS | | | | | | Yes | ** NA ** | | | None |

Member Point Loads (BLC 1 : Antenna D)

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Y | -31.65 | 5.25 |
| 2 | MP2A | My | -.019 | 5.25 |
| 3 | MP2A | Mz | .018 | 5.25 |
| 4 | MP2A | Y | -31.65 | 9.5 |
| 5 | MP2A | My | -.019 | 9.5 |
| 6 | MP2A | Mz | .018 | 9.5 |
| 7 | MP2B | Y | -31.65 | 5.25 |
| 8 | MP2B | My | .003 | 5.25 |
| 9 | MP2B | Mz | -.026 | 5.25 |
| 10 | MP2B | Y | -31.65 | 9.5 |
| 11 | MP2B | My | .003 | 9.5 |
| 12 | MP2B | Mz | -.026 | 9.5 |
| 13 | MP2C | Y | -31.65 | 5.25 |
| 14 | MP2C | My | .026 | 5.25 |
| 15 | MP2C | Mz | .003 | 5.25 |
| 16 | MP2C | Y | -31.65 | 9.5 |
| 17 | MP2C | My | .026 | 9.5 |
| 18 | MP2C | Mz | .003 | 9.5 |
| 19 | MP2A | Y | -31.65 | 5.25 |
| 20 | MP2A | My | -.012 | 5.25 |
| 21 | MP2A | Mz | -.024 | 5.25 |
| 22 | MP2A | Y | -31.65 | 9.5 |
| 23 | MP2A | My | -.012 | 9.5 |
| 24 | MP2A | Mz | -.024 | 9.5 |
| 25 | MP2B | Y | -31.65 | 5.25 |
| 26 | MP2B | My | .024 | 5.25 |
| 27 | MP2B | Mz | .01 | 5.25 |
| 28 | MP2B | Y | -31.65 | 9.5 |
| 29 | MP2B | My | .024 | 9.5 |
| 30 | MP2B | Mz | .01 | 9.5 |
| 31 | MP2C | Y | -31.65 | 5.25 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 32 | MP2C | My | -.01 | 5.25 |
| 33 | MP2C | Mz | .024 | 5.25 |
| 34 | MP2C | Y | -31.65 | 9.5 |
| 35 | MP2C | My | -.01 | 9.5 |
| 36 | MP2C | Mz | .024 | 9.5 |
| 37 | MP4A | Y | -43.55 | 6.75 |
| 38 | MP4A | My | -.021 | 6.75 |
| 39 | MP4A | Mz | -.004 | 6.75 |
| 40 | MP4A | Y | -43.55 | 8 |
| 41 | MP4A | My | -.021 | 8 |
| 42 | MP4A | Mz | -.004 | 8 |
| 43 | MP4B | Y | -43.55 | 6.75 |
| 44 | MP4B | My | .019 | 6.75 |
| 45 | MP4B | Mz | -.011 | 6.75 |
| 46 | MP4B | Y | -43.55 | 8 |
| 47 | MP4B | My | .019 | 8 |
| 48 | MP4B | Mz | -.011 | 8 |
| 49 | MP4C | Y | -43.55 | 6.75 |
| 50 | MP4C | My | .011 | 6.75 |
| 51 | MP4C | Mz | .019 | 6.75 |
| 52 | MP4C | Y | -43.55 | 8 |
| 53 | MP4C | My | .011 | 8 |
| 54 | MP4C | Mz | .019 | 8 |
| 55 | MP2A | Y | -13.2 | 6 |
| 56 | MP2A | My | .006 | 6 |
| 57 | MP2A | Mz | .005 | 6 |
| 58 | MP2B | Y | -13.2 | 6 |
| 59 | MP2B | My | -.008 | 6 |
| 60 | MP2B | Mz | -.000511 | 6 |
| 61 | MP2C | Y | -13.2 | 6 |
| 62 | MP2C | My | .000511 | 6 |
| 63 | MP2C | Mz | -.008 | 6 |
| 64 | MP2A | Y | -84.4 | 6 |
| 65 | MP2A | My | .042 | 6 |
| 66 | MP2A | Mz | 0 | 6 |
| 67 | MP2B | Y | -84.4 | 6 |
| 68 | MP2B | My | -.037 | 6 |
| 69 | MP2B | Mz | .021 | 6 |
| 70 | MP2C | Y | -84.4 | 6 |
| 71 | MP2C | My | -.021 | 6 |
| 72 | MP2C | Mz | -.037 | 6 |
| 73 | R1 | Y | -70.3 | 10.5 |
| 74 | R1 | My | 0 | 10.5 |
| 75 | R1 | Mz | 0 | 10.5 |
| 76 | R2 | Y | -70.3 | 10.5 |
| 77 | R2 | My | 0 | 10.5 |
| 78 | R2 | Mz | 0 | 10.5 |
| 79 | R3 | Y | -70.3 | 10.5 |
| 80 | R3 | My | 0 | 10.5 |
| 81 | R3 | Mz | 0 | 10.5 |
| 82 | MP1A | Y | -10.5 | .5 |
| 83 | MP1A | My | -.005 | .5 |
| 84 | MP1A | Mz | 0 | .5 |
| 85 | MP1A | Y | -10.5 | 5.5 |
| 86 | MP1A | My | -.005 | 5.5 |
| 87 | MP1A | Mz | 0 | 5.5 |
| 88 | MP1B | Y | -10.5 | .5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 89 | MP1B | My | .003 | .5 |
| 90 | MP1B | Mz | -.005 | .5 |
| 91 | MP1B | Y | -10.5 | 5.5 |
| 92 | MP1B | My | .003 | 5.5 |
| 93 | MP1B | Mz | -.005 | 5.5 |
| 94 | MP1C | Y | -10.5 | .5 |
| 95 | MP1C | My | .003 | .5 |
| 96 | MP1C | Mz | .005 | .5 |
| 97 | MP1C | Y | -10.5 | 5.5 |
| 98 | MP1C | My | .003 | 5.5 |
| 99 | MP1C | Mz | .005 | 5.5 |
| 100 | MP5A | Y | -10.5 | .5 |
| 101 | MP5A | My | -.005 | .5 |
| 102 | MP5A | Mz | 0 | .5 |
| 103 | MP5A | Y | -10.5 | 5.5 |
| 104 | MP5A | My | -.005 | 5.5 |
| 105 | MP5A | Mz | 0 | 5.5 |
| 106 | MP5B | Y | -10.5 | .5 |
| 107 | MP5B | My | .003 | .5 |
| 108 | MP5B | Mz | -.005 | .5 |
| 109 | MP5B | Y | -10.5 | 5.5 |
| 110 | MP5B | My | .003 | 5.5 |
| 111 | MP5B | Mz | -.005 | 5.5 |
| 112 | MP5C | Y | -10.5 | .5 |
| 113 | MP5C | My | .003 | .5 |
| 114 | MP5C | Mz | .005 | .5 |
| 115 | MP5C | Y | -10.5 | 5.5 |
| 116 | MP5C | My | .003 | 5.5 |
| 117 | MP5C | Mz | .005 | 5.5 |
| 118 | GPS | Y | -.9 | .25 |
| 119 | GPS | My | 0 | .25 |
| 120 | GPS | Mz | 0 | .25 |
| 121 | MP2A | Y | -8.8 | 8 |
| 122 | MP2A | My | .009 | 8 |
| 123 | MP2A | Mz | -.001 | 8 |
| 124 | MP2A | Y | -8.8 | 9 |
| 125 | MP2A | My | .009 | 9 |
| 126 | MP2A | Mz | -.001 | 9 |
| 127 | MP2A | Y | -8.8 | 8 |
| 128 | MP2A | My | .008 | 8 |
| 129 | MP2A | Mz | .004 | 8 |
| 130 | MP2A | Y | -8.8 | 9 |
| 131 | MP2A | My | .008 | 9 |
| 132 | MP2A | Mz | .004 | 9 |

Member Point Loads (BLC 2 : Antenna Di)

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Y | -67.443 | 5.25 |
| 2 | MP2A | My | -.041 | 5.25 |
| 3 | MP2A | Mz | .038 | 5.25 |
| 4 | MP2A | Y | -67.443 | 9.5 |
| 5 | MP2A | My | -.041 | 9.5 |
| 6 | MP2A | Mz | .038 | 9.5 |
| 7 | MP2B | Y | -67.443 | 5.25 |
| 8 | MP2B | My | .007 | 5.25 |
| 9 | MP2B | Mz | -.056 | 5.25 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 10 | MP2B | Y | -67.443 | 9.5 |
| 11 | MP2B | My | .007 | 9.5 |
| 12 | MP2B | Mz | -.056 | 9.5 |
| 13 | MP2C | Y | -67.443 | 5.25 |
| 14 | MP2C | My | .056 | 5.25 |
| 15 | MP2C | Mz | .007 | 5.25 |
| 16 | MP2C | Y | -67.443 | 9.5 |
| 17 | MP2C | My | .056 | 9.5 |
| 18 | MP2C | Mz | .007 | 9.5 |
| 19 | MP2A | Y | -67.443 | 5.25 |
| 20 | MP2A | My | -.025 | 5.25 |
| 21 | MP2A | Mz | -.05 | 5.25 |
| 22 | MP2A | Y | -67.443 | 9.5 |
| 23 | MP2A | My | -.025 | 9.5 |
| 24 | MP2A | Mz | -.05 | 9.5 |
| 25 | MP2B | Y | -67.443 | 5.25 |
| 26 | MP2B | My | .052 | 5.25 |
| 27 | MP2B | Mz | .022 | 5.25 |
| 28 | MP2B | Y | -67.443 | 9.5 |
| 29 | MP2B | My | .052 | 9.5 |
| 30 | MP2B | Mz | .022 | 9.5 |
| 31 | MP2C | Y | -67.443 | 5.25 |
| 32 | MP2C | My | -.022 | 5.25 |
| 33 | MP2C | Mz | .052 | 5.25 |
| 34 | MP2C | Y | -67.443 | 9.5 |
| 35 | MP2C | My | -.022 | 9.5 |
| 36 | MP2C | Mz | .052 | 9.5 |
| 37 | MP4A | Y | -34.316 | 6.75 |
| 38 | MP4A | My | -.017 | 6.75 |
| 39 | MP4A | Mz | -.003 | 6.75 |
| 40 | MP4A | Y | -34.316 | 8 |
| 41 | MP4A | My | -.017 | 8 |
| 42 | MP4A | Mz | -.003 | 8 |
| 43 | MP4B | Y | -34.316 | 6.75 |
| 44 | MP4B | My | .015 | 6.75 |
| 45 | MP4B | Mz | -.009 | 6.75 |
| 46 | MP4B | Y | -34.316 | 8 |
| 47 | MP4B | My | .015 | 8 |
| 48 | MP4B | Mz | -.009 | 8 |
| 49 | MP4C | Y | -34.316 | 6.75 |
| 50 | MP4C | My | .009 | 6.75 |
| 51 | MP4C | Mz | .015 | 6.75 |
| 52 | MP4C | Y | -34.316 | 8 |
| 53 | MP4C | My | .009 | 8 |
| 54 | MP4C | Mz | .015 | 8 |
| 55 | MP2A | Y | -11.694 | 6 |
| 56 | MP2A | My | .005 | 6 |
| 57 | MP2A | Mz | .005 | 6 |
| 58 | MP2B | Y | -11.694 | 6 |
| 59 | MP2B | My | -.007 | 6 |
| 60 | MP2B | Mz | -.000452 | 6 |
| 61 | MP2C | Y | -11.694 | 6 |
| 62 | MP2C | My | .000452 | 6 |
| 63 | MP2C | Mz | -.007 | 6 |
| 64 | MP2A | Y | -43.29 | 6 |
| 65 | MP2A | My | .022 | 6 |
| 66 | MP2A | Mz | 0 | 6 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 67 | MP2B | Y | -43.29 | 6 |
| 68 | MP2B | My | -.019 | 6 |
| 69 | MP2B | Mz | .011 | 6 |
| 70 | MP2C | Y | -43.29 | 6 |
| 71 | MP2C | My | -.011 | 6 |
| 72 | MP2C | Mz | -.019 | 6 |
| 73 | R1 | Y | -38.787 | 10.5 |
| 74 | R1 | My | 0 | 10.5 |
| 75 | R1 | Mz | 0 | 10.5 |
| 76 | R2 | Y | -38.787 | 10.5 |
| 77 | R2 | My | 0 | 10.5 |
| 78 | R2 | Mz | 0 | 10.5 |
| 79 | R3 | Y | -38.787 | 10.5 |
| 80 | R3 | My | 0 | 10.5 |
| 81 | R3 | Mz | 0 | 10.5 |
| 82 | MP1A | Y | -57.087 | .5 |
| 83 | MP1A | My | -.029 | .5 |
| 84 | MP1A | Mz | 0 | .5 |
| 85 | MP1A | Y | -57.087 | 5.5 |
| 86 | MP1A | My | -.029 | 5.5 |
| 87 | MP1A | Mz | 0 | 5.5 |
| 88 | MP1B | Y | -57.087 | .5 |
| 89 | MP1B | My | .014 | .5 |
| 90 | MP1B | Mz | -.025 | .5 |
| 91 | MP1B | Y | -57.087 | 5.5 |
| 92 | MP1B | My | .014 | 5.5 |
| 93 | MP1B | Mz | -.025 | 5.5 |
| 94 | MP1C | Y | -57.087 | .5 |
| 95 | MP1C | My | .014 | .5 |
| 96 | MP1C | Mz | .025 | .5 |
| 97 | MP1C | Y | -57.087 | 5.5 |
| 98 | MP1C | My | .014 | 5.5 |
| 99 | MP1C | Mz | .025 | 5.5 |
| 100 | MP5A | Y | -57.087 | .5 |
| 101 | MP5A | My | -.029 | .5 |
| 102 | MP5A | Mz | 0 | .5 |
| 103 | MP5A | Y | -57.087 | 5.5 |
| 104 | MP5A | My | -.029 | 5.5 |
| 105 | MP5A | Mz | 0 | 5.5 |
| 106 | MP5B | Y | -57.087 | .5 |
| 107 | MP5B | My | .014 | .5 |
| 108 | MP5B | Mz | -.025 | .5 |
| 109 | MP5B | Y | -57.087 | 5.5 |
| 110 | MP5B | My | .014 | 5.5 |
| 111 | MP5B | Mz | -.025 | 5.5 |
| 112 | MP5C | Y | -57.087 | .5 |
| 113 | MP5C | My | .014 | .5 |
| 114 | MP5C | Mz | .025 | .5 |
| 115 | MP5C | Y | -57.087 | 5.5 |
| 116 | MP5C | My | .014 | 5.5 |
| 117 | MP5C | Mz | .025 | 5.5 |
| 118 | GPS | Y | -2.496 | .25 |
| 119 | GPS | My | 0 | .25 |
| 120 | GPS | Mz | 0 | .25 |
| 121 | MP2A | Y | -8.308 | 8 |
| 122 | MP2A | My | .009 | 8 |
| 123 | MP2A | Mz | -.001 | 8 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 124 | MP2A | Y | -8.308 | 9 |
| 125 | MP2A | My | .009 | 9 |
| 126 | MP2A | Mz | -.001 | 9 |
| 127 | MP2A | Y | -8.308 | 8 |
| 128 | MP2A | My | .008 | 8 |
| 129 | MP2A | Mz | .004 | 8 |
| 130 | MP2A | Y | -8.308 | 9 |
| 131 | MP2A | My | .008 | 9 |
| 132 | MP2A | Mz | .004 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 0 | 5.25 |
| 2 | MP2A | Z | -194.128 | 5.25 |
| 3 | MP2A | Mx | -.111 | 5.25 |
| 4 | MP2A | X | 0 | 9.5 |
| 5 | MP2A | Z | -194.128 | 9.5 |
| 6 | MP2A | Mx | -.111 | 9.5 |
| 7 | MP2B | X | 0 | 5.25 |
| 8 | MP2B | Z | -179.327 | 5.25 |
| 9 | MP2B | Mx | .148 | 5.25 |
| 10 | MP2B | X | 0 | 9.5 |
| 11 | MP2B | Z | -179.327 | 9.5 |
| 12 | MP2B | Mx | .148 | 9.5 |
| 13 | MP2C | X | 0 | 5.25 |
| 14 | MP2C | Z | -145.665 | 5.25 |
| 15 | MP2C | Mx | -.015 | 5.25 |
| 16 | MP2C | X | 0 | 9.5 |
| 17 | MP2C | Z | -145.665 | 9.5 |
| 18 | MP2C | Mx | -.015 | 9.5 |
| 19 | MP2A | X | 0 | 5.25 |
| 20 | MP2A | Z | -194.128 | 5.25 |
| 21 | MP2A | Mx | .144 | 5.25 |
| 22 | MP2A | X | 0 | 9.5 |
| 23 | MP2A | Z | -194.128 | 9.5 |
| 24 | MP2A | Mx | .144 | 9.5 |
| 25 | MP2B | X | 0 | 5.25 |
| 26 | MP2B | Z | -179.327 | 5.25 |
| 27 | MP2B | Mx | -.059 | 5.25 |
| 28 | MP2B | X | 0 | 9.5 |
| 29 | MP2B | Z | -179.327 | 9.5 |
| 30 | MP2B | Mx | -.059 | 9.5 |
| 31 | MP2C | X | 0 | 5.25 |
| 32 | MP2C | Z | -145.665 | 5.25 |
| 33 | MP2C | Mx | -.112 | 5.25 |
| 34 | MP2C | X | 0 | 9.5 |
| 35 | MP2C | Z | -145.665 | 9.5 |
| 36 | MP2C | Mx | -.112 | 9.5 |
| 37 | MP4A | X | 0 | 6.75 |
| 38 | MP4A | Z | -82.737 | 6.75 |
| 39 | MP4A | Mx | .007 | 6.75 |
| 40 | MP4A | X | 0 | 8 |
| 41 | MP4A | Z | -82.737 | 8 |
| 42 | MP4A | Mx | .007 | 8 |
| 43 | MP4B | X | 0 | 6.75 |
| 44 | MP4B | Z | -70.572 | 6.75 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 45 | MP4B | Mx | .018 | 6.75 |
| 46 | MP4B | X | 0 | 8 |
| 47 | MP4B | Z | -70.572 | 8 |
| 48 | MP4B | Mx | .018 | 8 |
| 49 | MP4C | X | 0 | 6.75 |
| 50 | MP4C | Z | -42.903 | 6.75 |
| 51 | MP4C | Mx | -.019 | 6.75 |
| 52 | MP4C | X | 0 | 8 |
| 53 | MP4C | Z | -42.903 | 8 |
| 54 | MP4C | Mx | -.019 | 8 |
| 55 | MP2A | X | 0 | 6 |
| 56 | MP2A | Z | -19.199 | 6 |
| 57 | MP2A | Mx | -.008 | 6 |
| 58 | MP2B | X | 0 | 6 |
| 59 | MP2B | Z | -18.495 | 6 |
| 60 | MP2B | Mx | .000715 | 6 |
| 61 | MP2C | X | 0 | 6 |
| 62 | MP2C | Z | -16.892 | 6 |
| 63 | MP2C | Mx | .01 | 6 |
| 64 | MP2A | X | 0 | 6 |
| 65 | MP2A | Z | -66.891 | 6 |
| 66 | MP2A | Mx | 0 | 6 |
| 67 | MP2B | X | 0 | 6 |
| 68 | MP2B | Z | -61.389 | 6 |
| 69 | MP2B | Mx | -.015 | 6 |
| 70 | MP2C | X | 0 | 6 |
| 71 | MP2C | Z | -50.384 | 6 |
| 72 | MP2C | Mx | .022 | 6 |
| 73 | R1 | X | 0 | 10.5 |
| 74 | R1 | Z | -58.96 | 10.5 |
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | 0 | 10.5 |
| 77 | R2 | Z | -58.96 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | 0 | 10.5 |
| 80 | R3 | Z | -58.96 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | 0 | .5 |
| 83 | MP1A | Z | -151.802 | .5 |
| 84 | MP1A | Mx | 0 | .5 |
| 85 | MP1A | X | 0 | 5.5 |
| 86 | MP1A | Z | -151.802 | 5.5 |
| 87 | MP1A | Mx | 0 | 5.5 |
| 88 | MP1B | X | 0 | .5 |
| 89 | MP1B | Z | -137.402 | .5 |
| 90 | MP1B | Mx | .059 | .5 |
| 91 | MP1B | X | 0 | 5.5 |
| 92 | MP1B | Z | -137.402 | 5.5 |
| 93 | MP1B | Mx | .059 | 5.5 |
| 94 | MP1C | X | 0 | .5 |
| 95 | MP1C | Z | -137.402 | .5 |
| 96 | MP1C | Mx | -.059 | .5 |
| 97 | MP1C | X | 0 | 5.5 |
| 98 | MP1C | Z | -137.402 | 5.5 |
| 99 | MP1C | Mx | -.059 | 5.5 |
| 100 | MP5A | X | 0 | .5 |
| 101 | MP5A | Z | -151.802 | .5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 102 | MP5A | Mx | 0 | .5 |
| 103 | MP5A | X | 0 | 5.5 |
| 104 | MP5A | Z | -151.802 | 5.5 |
| 105 | MP5A | Mx | 0 | 5.5 |
| 106 | MP5B | X | 0 | .5 |
| 107 | MP5B | Z | -137.402 | .5 |
| 108 | MP5B | Mx | .059 | .5 |
| 109 | MP5B | X | 0 | 5.5 |
| 110 | MP5B | Z | -137.402 | 5.5 |
| 111 | MP5B | Mx | .059 | 5.5 |
| 112 | MP5C | X | 0 | .5 |
| 113 | MP5C | Z | -137.402 | .5 |
| 114 | MP5C | Mx | -.059 | .5 |
| 115 | MP5C | X | 0 | 5.5 |
| 116 | MP5C | Z | -137.402 | 5.5 |
| 117 | MP5C | Mx | -.059 | 5.5 |
| 118 | GPS | X | 0 | .25 |
| 119 | GPS | Z | -5.749 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | 0 | 8 |
| 122 | MP2A | Z | -20.584 | 8 |
| 123 | MP2A | Mx | .003 | 8 |
| 124 | MP2A | X | 0 | 9 |
| 125 | MP2A | Z | -20.584 | 9 |
| 126 | MP2A | Mx | .003 | 9 |
| 127 | MP2A | X | 0 | 8 |
| 128 | MP2A | Z | -20.584 | 8 |
| 129 | MP2A | Mx | -.01 | 8 |
| 130 | MP2A | X | 0 | 9 |
| 131 | MP2A | Z | -20.584 | 9 |
| 132 | MP2A | Mx | -.01 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 94.141 | 5.25 |
| 2 | MP2A | Z | -163.058 | 5.25 |
| 3 | MP2A | Mx | -.15 | 5.25 |
| 4 | MP2A | X | 94.141 | 9.5 |
| 5 | MP2A | Z | -163.058 | 9.5 |
| 6 | MP2A | Mx | -.15 | 9.5 |
| 7 | MP2B | X | 72.833 | 5.25 |
| 8 | MP2B | Z | -126.15 | 5.25 |
| 9 | MP2B | Mx | .112 | 5.25 |
| 10 | MP2B | X | 72.833 | 9.5 |
| 11 | MP2B | Z | -126.15 | 9.5 |
| 12 | MP2B | Mx | .112 | 9.5 |
| 13 | MP2C | X | 89.664 | 5.25 |
| 14 | MP2C | Z | -155.302 | 5.25 |
| 15 | MP2C | Mx | .059 | 5.25 |
| 16 | MP2C | X | 89.664 | 9.5 |
| 17 | MP2C | Z | -155.302 | 9.5 |
| 18 | MP2C | Mx | .059 | 9.5 |
| 19 | MP2A | X | 94.141 | 5.25 |
| 20 | MP2A | Z | -163.058 | 5.25 |
| 21 | MP2A | Mx | .086 | 5.25 |
| 22 | MP2A | X | 94.141 | 9.5 |



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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 23 | MP2A | Z | -163.058 | 9.5 |
| 24 | MP2A | Mx | .086 | 9.5 |
| 25 | MP2B | X | 72.833 | 5.25 |
| 26 | MP2B | Z | -126.15 | 5.25 |
| 27 | MP2B | Mx | .015 | 5.25 |
| 28 | MP2B | X | 72.833 | 9.5 |
| 29 | MP2B | Z | -126.15 | 9.5 |
| 30 | MP2B | Mx | .015 | 9.5 |
| 31 | MP2C | X | 89.664 | 5.25 |
| 32 | MP2C | Z | -155.302 | 5.25 |
| 33 | MP2C | Mx | -.148 | 5.25 |
| 34 | MP2C | X | 89.664 | 9.5 |
| 35 | MP2C | Z | -155.302 | 9.5 |
| 36 | MP2C | Mx | -.148 | 9.5 |
| 37 | MP4A | X | 38.966 | 6.75 |
| 38 | MP4A | Z | -67.492 | 6.75 |
| 39 | MP4A | Mx | -.013 | 6.75 |
| 40 | MP4A | X | 38.966 | 8 |
| 41 | MP4A | Z | -67.492 | 8 |
| 42 | MP4A | Mx | -.013 | 8 |
| 43 | MP4B | X | 21.451 | 6.75 |
| 44 | MP4B | Z | -37.155 | 6.75 |
| 45 | MP4B | Mx | .019 | 6.75 |
| 46 | MP4B | X | 21.451 | 8 |
| 47 | MP4B | Z | -37.155 | 8 |
| 48 | MP4B | Mx | .019 | 8 |
| 49 | MP4C | X | 35.286 | 6.75 |
| 50 | MP4C | Z | -61.117 | 6.75 |
| 51 | MP4C | Mx | -.018 | 6.75 |
| 52 | MP4C | X | 35.286 | 8 |
| 53 | MP4C | Z | -61.117 | 8 |
| 54 | MP4C | Mx | -.018 | 8 |
| 55 | MP2A | X | 9.46 | 6 |
| 56 | MP2A | Z | -16.386 | 6 |
| 57 | MP2A | Mx | -.003 | 6 |
| 58 | MP2B | X | 8.446 | 6 |
| 59 | MP2B | Z | -14.629 | 6 |
| 60 | MP2B | Mx | -.004 | 6 |
| 61 | MP2C | X | 9.247 | 6 |
| 62 | MP2C | Z | -16.017 | 6 |
| 63 | MP2C | Mx | .01 | 6 |
| 64 | MP2A | X | 30.694 | 6 |
| 65 | MP2A | Z | -53.164 | 6 |
| 66 | MP2A | Mx | .015 | 6 |
| 67 | MP2B | X | 25.192 | 6 |
| 68 | MP2B | Z | -43.634 | 6 |
| 69 | MP2B | Mx | -.022 | 6 |
| 70 | MP2C | X | 30.694 | 6 |
| 71 | MP2C | Z | -53.164 | 6 |
| 72 | MP2C | Mx | .015 | 6 |
| 73 | R1 | X | 21.976 | 10.5 |
| 74 | R1 | Z | -38.063 | 10.5 |
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | 21.976 | 10.5 |
| 77 | R2 | Z | -38.063 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | 21.976 | 10.5 |



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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 80 | R3 | Z | -38.063 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | 73.501 | .5 |
| 83 | MP1A | Z | -127.307 | .5 |
| 84 | MP1A | Mx | -.037 | .5 |
| 85 | MP1A | X | 73.501 | 5.5 |
| 86 | MP1A | Z | -127.307 | 5.5 |
| 87 | MP1A | Mx | -.037 | 5.5 |
| 88 | MP1B | X | 66.301 | .5 |
| 89 | MP1B | Z | -114.837 | .5 |
| 90 | MP1B | Mx | .066 | .5 |
| 91 | MP1B | X | 66.301 | 5.5 |
| 92 | MP1B | Z | -114.837 | 5.5 |
| 93 | MP1B | Mx | .066 | 5.5 |
| 94 | MP1C | X | 73.501 | .5 |
| 95 | MP1C | Z | -127.307 | .5 |
| 96 | MP1C | Mx | -.037 | .5 |
| 97 | MP1C | X | 73.501 | 5.5 |
| 98 | MP1C | Z | -127.307 | 5.5 |
| 99 | MP1C | Mx | -.037 | 5.5 |
| 100 | MP5A | X | 73.501 | .5 |
| 101 | MP5A | Z | -127.307 | .5 |
| 102 | MP5A | Mx | -.037 | .5 |
| 103 | MP5A | X | 73.501 | 5.5 |
| 104 | MP5A | Z | -127.307 | 5.5 |
| 105 | MP5A | Mx | -.037 | 5.5 |
| 106 | MP5B | X | 66.301 | .5 |
| 107 | MP5B | Z | -114.837 | .5 |
| 108 | MP5B | Mx | .066 | .5 |
| 109 | MP5B | X | 66.301 | 5.5 |
| 110 | MP5B | Z | -114.837 | 5.5 |
| 111 | MP5B | Mx | .066 | 5.5 |
| 112 | MP5C | X | 73.501 | .5 |
| 113 | MP5C | Z | -127.307 | .5 |
| 114 | MP5C | Mx | -.037 | .5 |
| 115 | MP5C | X | 73.501 | 5.5 |
| 116 | MP5C | Z | -127.307 | 5.5 |
| 117 | MP5C | Mx | -.037 | 5.5 |
| 118 | GPS | X | 3.477 | .25 |
| 119 | GPS | Z | -6.023 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | 10.295 | 8 |
| 122 | MP2A | Z | -17.831 | 8 |
| 123 | MP2A | Mx | .013 | 8 |
| 124 | MP2A | X | 10.295 | 9 |
| 125 | MP2A | Z | -17.831 | 9 |
| 126 | MP2A | Mx | .013 | 9 |
| 127 | MP2A | X | 10.295 | 8 |
| 128 | MP2A | Z | -17.831 | 8 |
| 129 | MP2A | Mx | .000593 | 8 |
| 130 | MP2A | X | 10.295 | 9 |
| 131 | MP2A | Z | -17.831 | 9 |
| 132 | MP2A | Mx | .000593 | 9 |

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

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



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 135.664 | 5.25 |
| 2 | MP2A | Z | -78.325 | 5.25 |
| 3 | MP2A | Mx | -.127 | 5.25 |
| 4 | MP2A | X | 135.664 | 9.5 |
| 5 | MP2A | Z | -78.325 | 9.5 |
| 6 | MP2A | Mx | -.127 | 9.5 |
| 7 | MP2B | X | 111.574 | 5.25 |
| 8 | MP2B | Z | -64.417 | 5.25 |
| 9 | MP2B | Mx | .064 | 5.25 |
| 10 | MP2B | X | 111.574 | 9.5 |
| 11 | MP2B | Z | -64.417 | 9.5 |
| 12 | MP2B | Mx | .064 | 9.5 |
| 13 | MP2C | X | 169.878 | 5.25 |
| 14 | MP2C | Z | -98.079 | 5.25 |
| 15 | MP2C | Mx | .131 | 5.25 |
| 16 | MP2C | X | 169.878 | 9.5 |
| 17 | MP2C | Z | -98.079 | 9.5 |
| 18 | MP2C | Mx | .131 | 9.5 |
| 19 | MP2A | X | 135.664 | 5.25 |
| 20 | MP2A | Z | -78.325 | 5.25 |
| 21 | MP2A | Mx | .007 | 5.25 |
| 22 | MP2A | X | 135.664 | 9.5 |
| 23 | MP2A | Z | -78.325 | 9.5 |
| 24 | MP2A | Mx | .007 | 9.5 |
| 25 | MP2B | X | 111.574 | 5.25 |
| 26 | MP2B | Z | -64.417 | 5.25 |
| 27 | MP2B | Mx | .064 | 5.25 |
| 28 | MP2B | X | 111.574 | 9.5 |
| 29 | MP2B | Z | -64.417 | 9.5 |
| 30 | MP2B | Mx | .064 | 9.5 |
| 31 | MP2C | X | 169.878 | 5.25 |
| 32 | MP2C | Z | -98.079 | 5.25 |
| 33 | MP2C | Mx | -.131 | 5.25 |
| 34 | MP2C | X | 169.878 | 9.5 |
| 35 | MP2C | Z | -98.079 | 9.5 |
| 36 | MP2C | Mx | -.131 | 9.5 |
| 37 | MP4A | X | 44.975 | 6.75 |
| 38 | MP4A | Z | -25.966 | 6.75 |
| 39 | MP4A | Mx | -.02 | 6.75 |
| 40 | MP4A | X | 44.975 | 8 |
| 41 | MP4A | Z | -25.966 | 8 |
| 42 | MP4A | Mx | -.02 | 8 |
| 43 | MP4B | X | 25.174 | 6.75 |
| 44 | MP4B | Z | -14.534 | 6.75 |
| 45 | MP4B | Mx | .015 | 6.75 |
| 46 | MP4B | X | 25.174 | 8 |
| 47 | MP4B | Z | -14.534 | 8 |
| 48 | MP4B | Mx | .015 | 8 |
| 49 | MP4C | X | 73.098 | 6.75 |
| 50 | MP4C | Z | -42.203 | 6.75 |
| 51 | MP4C | Mx | 0 | 6.75 |
| 52 | MP4C | X | 73.098 | 8 |
| 53 | MP4C | Z | -42.203 | 8 |
| 54 | MP4C | Mx | 0 | 8 |
| 55 | MP2A | X | 15.082 | 6 |
| 56 | MP2A | Z | -8.707 | 6 |
| 57 | MP2A | Mx | .003 | 6 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 58 | MP2B | X | 13.935 | 6 |
| 59 | MP2B | Z | -8.045 | 6 |
| 60 | MP2B | Mx | -.008 | 6 |
| 61 | MP2C | X | 16.711 | 6 |
| 62 | MP2C | Z | -9.648 | 6 |
| 63 | MP2C | Mx | .006 | 6 |
| 64 | MP2A | X | 43.634 | 6 |
| 65 | MP2A | Z | -25.192 | 6 |
| 66 | MP2A | Mx | .022 | 6 |
| 67 | MP2B | X | 38.869 | 6 |
| 68 | MP2B | Z | -22.441 | 6 |
| 69 | MP2B | Mx | -.022 | 6 |
| 70 | MP2C | X | 57.929 | 6 |
| 71 | MP2C | Z | -33.446 | 6 |
| 72 | MP2C | Mx | 0 | 6 |
| 73 | R1 | X | 31.565 | 10.5 |
| 74 | R1 | Z | -18.224 | 10.5 |
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | 31.565 | 10.5 |
| 77 | R2 | Z | -18.224 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | 31.565 | 10.5 |
| 80 | R3 | Z | -18.224 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | 118.994 | .5 |
| 83 | MP1A | Z | -68.701 | .5 |
| 84 | MP1A | Mx | -.059 | .5 |
| 85 | MP1A | X | 118.994 | 5.5 |
| 86 | MP1A | Z | -68.701 | 5.5 |
| 87 | MP1A | Mx | -.059 | 5.5 |
| 88 | MP1B | X | 118.994 | .5 |
| 89 | MP1B | Z | -68.701 | .5 |
| 90 | MP1B | Mx | .059 | .5 |
| 91 | MP1B | X | 118.994 | 5.5 |
| 92 | MP1B | Z | -68.701 | 5.5 |
| 93 | MP1B | Mx | .059 | 5.5 |
| 94 | MP1C | X | 131.464 | .5 |
| 95 | MP1C | Z | -75.901 | .5 |
| 96 | MP1C | Mx | 0 | .5 |
| 97 | MP1C | X | 131.464 | 5.5 |
| 98 | MP1C | Z | -75.901 | 5.5 |
| 99 | MP1C | Mx | 0 | 5.5 |
| 100 | MP5A | X | 118.994 | .5 |
| 101 | MP5A | Z | -68.701 | .5 |
| 102 | MP5A | Mx | -.059 | .5 |
| 103 | MP5A | X | 118.994 | 5.5 |
| 104 | MP5A | Z | -68.701 | 5.5 |
| 105 | MP5A | Mx | -.059 | 5.5 |
| 106 | MP5B | X | 118.994 | .5 |
| 107 | MP5B | Z | -68.701 | .5 |
| 108 | MP5B | Mx | .059 | .5 |
| 109 | MP5B | X | 118.994 | 5.5 |
| 110 | MP5B | Z | -68.701 | 5.5 |
| 111 | MP5B | Mx | .059 | 5.5 |
| 112 | MP5C | X | 131.464 | .5 |
| 113 | MP5C | Z | -75.901 | .5 |
| 114 | MP5C | Mx | 0 | .5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 115 | MP5C | X | 131.464 | 5.5 |
| 116 | MP5C | Z | -75.901 | 5.5 |
| 117 | MP5C | Mx | 0 | 5.5 |
| 118 | GPS | X | 6.545 | .25 |
| 119 | GPS | Z | -3.779 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | 17.856 | 8 |
| 122 | MP2A | Z | -10.309 | 8 |
| 123 | MP2A | Mx | .02 | 8 |
| 124 | MP2A | X | 17.856 | 9 |
| 125 | MP2A | Z | -10.309 | 9 |
| 126 | MP2A | Mx | .02 | 9 |
| 127 | MP2A | X | 17.856 | 8 |
| 128 | MP2A | Z | -10.309 | 8 |
| 129 | MP2A | Mx | .011 | 8 |
| 130 | MP2A | X | 17.856 | 9 |
| 131 | MP2A | Z | -10.309 | 9 |
| 132 | MP2A | Mx | .011 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 130.864 | 5.25 |
| 2 | MP2A | Z | 0 | 5.25 |
| 3 | MP2A | Mx | -.08 | 5.25 |
| 4 | MP2A | X | 130.864 | 9.5 |
| 5 | MP2A | Z | 0 | 9.5 |
| 6 | MP2A | Mx | -.08 | 9.5 |
| 7 | MP2B | X | 145.665 | 5.25 |
| 8 | MP2B | Z | 0 | 5.25 |
| 9 | MP2B | Mx | .015 | 5.25 |
| 10 | MP2B | X | 145.665 | 9.5 |
| 11 | MP2B | Z | 0 | 9.5 |
| 12 | MP2B | Mx | .015 | 9.5 |
| 13 | MP2C | X | 179.327 | 5.25 |
| 14 | MP2C | Z | 0 | 5.25 |
| 15 | MP2C | Mx | .148 | 5.25 |
| 16 | MP2C | X | 179.327 | 9.5 |
| 17 | MP2C | Z | 0 | 9.5 |
| 18 | MP2C | Mx | .148 | 9.5 |
| 19 | MP2A | X | 130.864 | 5.25 |
| 20 | MP2A | Z | 0 | 5.25 |
| 21 | MP2A | Mx | -.049 | 5.25 |
| 22 | MP2A | X | 130.864 | 9.5 |
| 23 | MP2A | Z | 0 | 9.5 |
| 24 | MP2A | Mx | -.049 | 9.5 |
| 25 | MP2B | X | 145.665 | 5.25 |
| 26 | MP2B | Z | 0 | 5.25 |
| 27 | MP2B | Mx | .112 | 5.25 |
| 28 | MP2B | X | 145.665 | 9.5 |
| 29 | MP2B | Z | 0 | 9.5 |
| 30 | MP2B | Mx | .112 | 9.5 |
| 31 | MP2C | X | 179.327 | 5.25 |
| 32 | MP2C | Z | 0 | 5.25 |
| 33 | MP2C | Mx | -.059 | 5.25 |
| 34 | MP2C | X | 179.327 | 9.5 |
| 35 | MP2C | Z | 0 | 9.5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 36 | MP2C | Mx | -.059 | 9.5 |
| 37 | MP4A | X | 30.737 | 6.75 |
| 38 | MP4A | Z | 0 | 6.75 |
| 39 | MP4A | Mx | -.015 | 6.75 |
| 40 | MP4A | X | 30.737 | 8 |
| 41 | MP4A | Z | 0 | 8 |
| 42 | MP4A | Mx | -.015 | 8 |
| 43 | MP4B | X | 42.903 | 6.75 |
| 44 | MP4B | Z | 0 | 6.75 |
| 45 | MP4B | Mx | .019 | 6.75 |
| 46 | MP4B | X | 42.903 | 8 |
| 47 | MP4B | Z | 0 | 8 |
| 48 | MP4B | Mx | .019 | 8 |
| 49 | MP4C | X | 70.572 | 6.75 |
| 50 | MP4C | Z | 0 | 6.75 |
| 51 | MP4C | Mx | .018 | 6.75 |
| 52 | MP4C | X | 70.572 | 8 |
| 53 | MP4C | Z | 0 | 8 |
| 54 | MP4C | Mx | .018 | 8 |
| 55 | MP2A | X | 16.187 | 6 |
| 56 | MP2A | Z | 0 | 6 |
| 57 | MP2A | Mx | .007 | 6 |
| 58 | MP2B | X | 16.892 | 6 |
| 59 | MP2B | Z | 0 | 6 |
| 60 | MP2B | Mx | -.01 | 6 |
| 61 | MP2C | X | 18.495 | 6 |
| 62 | MP2C | Z | 0 | 6 |
| 63 | MP2C | Mx | .000715 | 6 |
| 64 | MP2A | X | 44.882 | 6 |
| 65 | MP2A | Z | 0 | 6 |
| 66 | MP2A | Mx | .022 | 6 |
| 67 | MP2B | X | 50.384 | 6 |
| 68 | MP2B | Z | 0 | 6 |
| 69 | MP2B | Mx | -.022 | 6 |
| 70 | MP2C | X | 61.389 | 6 |
| 71 | MP2C | Z | 0 | 6 |
| 72 | MP2C | Mx | -.015 | 6 |
| 73 | R1 | X | 43.952 | 10.5 |
| 74 | R1 | Z | 0 | 10.5 |
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | 43.952 | 10.5 |
| 77 | R2 | Z | 0 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | 43.952 | 10.5 |
| 80 | R3 | Z | 0 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | 132.602 | .5 |
| 83 | MP1A | Z | 0 | .5 |
| 84 | MP1A | Mx | -.066 | .5 |
| 85 | MP1A | X | 132.602 | 5.5 |
| 86 | MP1A | Z | 0 | 5.5 |
| 87 | MP1A | Mx | -.066 | 5.5 |
| 88 | MP1B | X | 147.002 | .5 |
| 89 | MP1B | Z | 0 | .5 |
| 90 | MP1B | Mx | .037 | .5 |
| 91 | MP1B | X | 147.002 | 5.5 |
| 92 | MP1B | Z | 0 | 5.5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 93 | MP1B | Mx | .037 | 5.5 |
| 94 | MP1C | X | 147.002 | .5 |
| 95 | MP1C | Z | 0 | .5 |
| 96 | MP1C | Mx | .037 | .5 |
| 97 | MP1C | X | 147.002 | 5.5 |
| 98 | MP1C | Z | 0 | 5.5 |
| 99 | MP1C | Mx | .037 | 5.5 |
| 100 | MP5A | X | 132.602 | .5 |
| 101 | MP5A | Z | 0 | .5 |
| 102 | MP5A | Mx | -.066 | .5 |
| 103 | MP5A | X | 132.602 | 5.5 |
| 104 | MP5A | Z | 0 | 5.5 |
| 105 | MP5A | Mx | -.066 | 5.5 |
| 106 | MP5B | X | 147.002 | .5 |
| 107 | MP5B | Z | 0 | .5 |
| 108 | MP5B | Mx | .037 | .5 |
| 109 | MP5B | X | 147.002 | 5.5 |
| 110 | MP5B | Z | 0 | 5.5 |
| 111 | MP5B | Mx | .037 | 5.5 |
| 112 | MP5C | X | 147.002 | .5 |
| 113 | MP5C | Z | 0 | .5 |
| 114 | MP5C | Mx | .037 | .5 |
| 115 | MP5C | X | 147.002 | 5.5 |
| 116 | MP5C | Z | 0 | 5.5 |
| 117 | MP5C | Mx | .037 | 5.5 |
| 118 | GPS | X | 6.955 | .25 |
| 119 | GPS | Z | 0 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | 20.641 | 8 |
| 122 | MP2A | Z | 0 | 8 |
| 123 | MP2A | Mx | .022 | 8 |
| 124 | MP2A | X | 20.641 | 9 |
| 125 | MP2A | Z | 0 | 9 |
| 126 | MP2A | Mx | .022 | 9 |
| 127 | MP2A | X | 20.641 | 8 |
| 128 | MP2A | Z | 0 | 8 |
| 129 | MP2A | Mx | .019 | 8 |
| 130 | MP2A | X | 20.641 | 9 |
| 131 | MP2A | Z | 0 | 9 |
| 132 | MP2A | Mx | .019 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 118.394 | 5.25 |
| 2 | MP2A | Z | 68.355 | 5.25 |
| 3 | MP2A | Mx | -.033 | 5.25 |
| 4 | MP2A | X | 118.394 | 9.5 |
| 5 | MP2A | Z | 68.355 | 9.5 |
| 6 | MP2A | Mx | -.033 | 9.5 |
| 7 | MP2B | X | 155.302 | 5.25 |
| 8 | MP2B | Z | 89.664 | 5.25 |
| 9 | MP2B | Mx | -.059 | 5.25 |
| 10 | MP2B | X | 155.302 | 9.5 |
| 11 | MP2B | Z | 89.664 | 9.5 |
| 12 | MP2B | Mx | -.059 | 9.5 |
| 13 | MP2C | X | 126.15 | 5.25 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 14 | MP2C | Z | 72.833 | 5.25 |
| 15 | MP2C | Mx | .112 | 5.25 |
| 16 | MP2C | X | 126.15 | 9.5 |
| 17 | MP2C | Z | 72.833 | 9.5 |
| 18 | MP2C | Mx | .112 | 9.5 |
| 19 | MP2A | X | 118.394 | 5.25 |
| 20 | MP2A | Z | 68.355 | 5.25 |
| 21 | MP2A | Mx | -.095 | 5.25 |
| 22 | MP2A | X | 118.394 | 9.5 |
| 23 | MP2A | Z | 68.355 | 9.5 |
| 24 | MP2A | Mx | -.095 | 9.5 |
| 25 | MP2B | X | 155.302 | 5.25 |
| 26 | MP2B | Z | 89.664 | 5.25 |
| 27 | MP2B | Mx | .148 | 5.25 |
| 28 | MP2B | X | 155.302 | 9.5 |
| 29 | MP2B | Z | 89.664 | 9.5 |
| 30 | MP2B | Mx | .148 | 9.5 |
| 31 | MP2C | X | 126.15 | 5.25 |
| 32 | MP2C | Z | 72.833 | 5.25 |
| 33 | MP2C | Mx | .015 | 5.25 |
| 34 | MP2C | X | 126.15 | 9.5 |
| 35 | MP2C | Z | 72.833 | 9.5 |
| 36 | MP2C | Mx | .015 | 9.5 |
| 37 | MP4A | X | 30.78 | 6.75 |
| 38 | MP4A | Z | 17.771 | 6.75 |
| 39 | MP4A | Mx | -.017 | 6.75 |
| 40 | MP4A | X | 30.78 | 8 |
| 41 | MP4A | Z | 17.771 | 8 |
| 42 | MP4A | Mx | -.017 | 8 |
| 43 | MP4B | X | 61.117 | 6.75 |
| 44 | MP4B | Z | 35.286 | 6.75 |
| 45 | MP4B | Mx | .018 | 6.75 |
| 46 | MP4B | X | 61.117 | 8 |
| 47 | MP4B | Z | 35.286 | 8 |
| 48 | MP4B | Mx | .018 | 8 |
| 49 | MP4C | X | 37.155 | 6.75 |
| 50 | MP4C | Z | 21.451 | 6.75 |
| 51 | MP4C | Mx | .019 | 6.75 |
| 52 | MP4C | X | 37.155 | 8 |
| 53 | MP4C | Z | 21.451 | 8 |
| 54 | MP4C | Mx | .019 | 8 |
| 55 | MP2A | X | 14.26 | 6 |
| 56 | MP2A | Z | 8.233 | 6 |
| 57 | MP2A | Mx | .01 | 6 |
| 58 | MP2B | X | 16.017 | 6 |
| 59 | MP2B | Z | 9.247 | 6 |
| 60 | MP2B | Mx | -.01 | 6 |
| 61 | MP2C | X | 14.629 | 6 |
| 62 | MP2C | Z | 8.446 | 6 |
| 63 | MP2C | Mx | -.004 | 6 |
| 64 | MP2A | X | 43.634 | 6 |
| 65 | MP2A | Z | 25.192 | 6 |
| 66 | MP2A | Mx | .022 | 6 |
| 67 | MP2B | X | 53.164 | 6 |
| 68 | MP2B | Z | 30.694 | 6 |
| 69 | MP2B | Mx | -.015 | 6 |
| 70 | MP2C | X | 43.634 | 6 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 71 | MP2C | Z | 25.192 | 6 |
| 72 | MP2C | Mx | -.022 | 6 |
| 73 | R1 | X | 51.061 | 10.5 |
| 74 | R1 | Z | 29.48 | 10.5 |
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | 51.061 | 10.5 |
| 77 | R2 | Z | 29.48 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | 51.061 | 10.5 |
| 80 | R3 | Z | 29.48 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | 118.994 | .5 |
| 83 | MP1A | Z | 68.701 | .5 |
| 84 | MP1A | Mx | -.059 | .5 |
| 85 | MP1A | X | 118.994 | 5.5 |
| 86 | MP1A | Z | 68.701 | 5.5 |
| 87 | MP1A | Mx | -.059 | 5.5 |
| 88 | MP1B | X | 131.464 | .5 |
| 89 | MP1B | Z | 75.901 | .5 |
| 90 | MP1B | Mx | 0 | .5 |
| 91 | MP1B | X | 131.464 | 5.5 |
| 92 | MP1B | Z | 75.901 | 5.5 |
| 93 | MP1B | Mx | 0 | 5.5 |
| 94 | MP1C | X | 118.994 | .5 |
| 95 | MP1C | Z | 68.701 | .5 |
| 96 | MP1C | Mx | .059 | .5 |
| 97 | MP1C | X | 118.994 | 5.5 |
| 98 | MP1C | Z | 68.701 | 5.5 |
| 99 | MP1C | Mx | .059 | 5.5 |
| 100 | MP5A | X | 118.994 | .5 |
| 101 | MP5A | Z | 68.701 | .5 |
| 102 | MP5A | Mx | -.059 | .5 |
| 103 | MP5A | X | 118.994 | 5.5 |
| 104 | MP5A | Z | 68.701 | 5.5 |
| 105 | MP5A | Mx | -.059 | 5.5 |
| 106 | MP5B | X | 131.464 | .5 |
| 107 | MP5B | Z | 75.901 | .5 |
| 108 | MP5B | Mx | 0 | .5 |
| 109 | MP5B | X | 131.464 | 5.5 |
| 110 | MP5B | Z | 75.901 | 5.5 |
| 111 | MP5B | Mx | 0 | 5.5 |
| 112 | MP5C | X | 118.994 | .5 |
| 113 | MP5C | Z | 68.701 | .5 |
| 114 | MP5C | Mx | .059 | .5 |
| 115 | MP5C | X | 118.994 | 5.5 |
| 116 | MP5C | Z | 68.701 | 5.5 |
| 117 | MP5C | Mx | .059 | 5.5 |
| 118 | GPS | X | 4.978 | .25 |
| 119 | GPS | Z | 2.874 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | 17.871 | 8 |
| 122 | MP2A | Z | 10.318 | 8 |
| 123 | MP2A | Mx | .017 | 8 |
| 124 | MP2A | X | 17.871 | 9 |
| 125 | MP2A | Z | 10.318 | 9 |
| 126 | MP2A | Mx | .017 | 9 |
| 127 | MP2A | X | 17.871 | 8 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 128 | MP2A | Z | 10.318 | 8 |
| 129 | MP2A | Mx | .022 | 8 |
| 130 | MP2A | X | 17.871 | 9 |
| 131 | MP2A | Z | 10.318 | 9 |
| 132 | MP2A | Mx | .022 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 84.171 | 5.25 |
| 2 | MP2A | Z | 145.788 | 5.25 |
| 3 | MP2A | Mx | .032 | 5.25 |
| 4 | MP2A | X | 84.171 | 9.5 |
| 5 | MP2A | Z | 145.788 | 9.5 |
| 6 | MP2A | Mx | .032 | 9.5 |
| 7 | MP2B | X | 98.079 | 5.25 |
| 8 | MP2B | Z | 169.878 | 5.25 |
| 9 | MP2B | Mx | -.131 | 5.25 |
| 10 | MP2B | X | 98.079 | 9.5 |
| 11 | MP2B | Z | 169.878 | 9.5 |
| 12 | MP2B | Mx | -.131 | 9.5 |
| 13 | MP2C | X | 64.417 | 5.25 |
| 14 | MP2C | Z | 111.574 | 5.25 |
| 15 | MP2C | Mx | .064 | 5.25 |
| 16 | MP2C | X | 64.417 | 9.5 |
| 17 | MP2C | Z | 111.574 | 9.5 |
| 18 | MP2C | Mx | .064 | 9.5 |
| 19 | MP2A | X | 84.171 | 5.25 |
| 20 | MP2A | Z | 145.788 | 5.25 |
| 21 | MP2A | Mx | -.14 | 5.25 |
| 22 | MP2A | X | 84.171 | 9.5 |
| 23 | MP2A | Z | 145.788 | 9.5 |
| 24 | MP2A | Mx | -.14 | 9.5 |
| 25 | MP2B | X | 98.079 | 5.25 |
| 26 | MP2B | Z | 169.878 | 5.25 |
| 27 | MP2B | Mx | .131 | 5.25 |
| 28 | MP2B | X | 98.079 | 9.5 |
| 29 | MP2B | Z | 169.878 | 9.5 |
| 30 | MP2B | Mx | .131 | 9.5 |
| 31 | MP2C | X | 64.417 | 5.25 |
| 32 | MP2C | Z | 111.574 | 5.25 |
| 33 | MP2C | Mx | .064 | 5.25 |
| 34 | MP2C | X | 64.417 | 9.5 |
| 35 | MP2C | Z | 111.574 | 9.5 |
| 36 | MP2C | Mx | .064 | 9.5 |
| 37 | MP4A | X | 30.771 | 6.75 |
| 38 | MP4A | Z | 53.297 | 6.75 |
| 39 | MP4A | Mx | -.02 | 6.75 |
| 40 | MP4A | X | 30.771 | 8 |
| 41 | MP4A | Z | 53.297 | 8 |
| 42 | MP4A | Mx | -.02 | 8 |
| 43 | MP4B | X | 42.203 | 6.75 |
| 44 | MP4B | Z | 73.098 | 6.75 |
| 45 | MP4B | Mx | 0 | 6.75 |
| 46 | MP4B | X | 42.203 | 8 |
| 47 | MP4B | Z | 73.098 | 8 |
| 48 | MP4B | Mx | 0 | 8 |



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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 49 | MP4C | X | 14.534 | 6.75 |
| 50 | MP4C | Z | 25.174 | 6.75 |
| 51 | MP4C | Mx | .015 | 6.75 |
| 52 | MP4C | X | 14.534 | 8 |
| 53 | MP4C | Z | 25.174 | 8 |
| 54 | MP4C | Mx | .015 | 8 |
| 55 | MP2A | X | 8.986 | 6 |
| 56 | MP2A | Z | 15.564 | 6 |
| 57 | MP2A | Mx | .01 | 6 |
| 58 | MP2B | X | 9.648 | 6 |
| 59 | MP2B | Z | 16.711 | 6 |
| 60 | MP2B | Mx | -.006 | 6 |
| 61 | MP2C | X | 8.045 | 6 |
| 62 | MP2C | Z | 13.935 | 6 |
| 63 | MP2C | Mx | -.008 | 6 |
| 64 | MP2A | X | 30.694 | 6 |
| 65 | MP2A | Z | 53.164 | 6 |
| 66 | MP2A | Mx | .015 | 6 |
| 67 | MP2B | X | 33.446 | 6 |
| 68 | MP2B | Z | 57.929 | 6 |
| 69 | MP2B | Mx | 0 | 6 |
| 70 | MP2C | X | 22.441 | 6 |
| 71 | MP2C | Z | 38.869 | 6 |
| 72 | MP2C | Mx | -.022 | 6 |
| 73 | R1 | X | 33.232 | 10.5 |
| 74 | R1 | Z | 57.559 | 10.5 |
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | 33.232 | 10.5 |
| 77 | R2 | Z | 57.559 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | 33.232 | 10.5 |
| 80 | R3 | Z | 57.559 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | 73.501 | .5 |
| 83 | MP1A | Z | 127.307 | .5 |
| 84 | MP1A | Mx | -.037 | .5 |
| 85 | MP1A | X | 73.501 | 5.5 |
| 86 | MP1A | Z | 127.307 | 5.5 |
| 87 | MP1A | Mx | -.037 | 5.5 |
| 88 | MP1B | X | 73.501 | .5 |
| 89 | MP1B | Z | 127.307 | .5 |
| 90 | MP1B | Mx | -.037 | .5 |
| 91 | MP1B | X | 73.501 | 5.5 |
| 92 | MP1B | Z | 127.307 | 5.5 |
| 93 | MP1B | Mx | -.037 | 5.5 |
| 94 | MP1C | X | 66.301 | .5 |
| 95 | MP1C | Z | 114.837 | .5 |
| 96 | MP1C | Mx | .066 | .5 |
| 97 | MP1C | X | 66.301 | 5.5 |
| 98 | MP1C | Z | 114.837 | 5.5 |
| 99 | MP1C | Mx | .066 | 5.5 |
| 100 | MP5A | X | 73.501 | .5 |
| 101 | MP5A | Z | 127.307 | .5 |
| 102 | MP5A | Mx | -.037 | .5 |
| 103 | MP5A | X | 73.501 | 5.5 |
| 104 | MP5A | Z | 127.307 | 5.5 |
| 105 | MP5A | Mx | -.037 | 5.5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 106 | MP5B | X | 73.501 | .5 |
| 107 | MP5B | Z | 127.307 | .5 |
| 108 | MP5B | Mx | -.037 | .5 |
| 109 | MP5B | X | 73.501 | 5.5 |
| 110 | MP5B | Z | 127.307 | 5.5 |
| 111 | MP5B | Mx | -.037 | 5.5 |
| 112 | MP5C | X | 66.301 | .5 |
| 113 | MP5C | Z | 114.837 | .5 |
| 114 | MP5C | Mx | .066 | .5 |
| 115 | MP5C | X | 66.301 | 5.5 |
| 116 | MP5C | Z | 114.837 | 5.5 |
| 117 | MP5C | Mx | .066 | 5.5 |
| 118 | GPS | X | 2.573 | .25 |
| 119 | GPS | Z | 4.456 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | 10.304 | 8 |
| 122 | MP2A | Z | 17.846 | 8 |
| 123 | MP2A | Mx | .008 | 8 |
| 124 | MP2A | X | 10.304 | 9 |
| 125 | MP2A | Z | 17.846 | 9 |
| 126 | MP2A | Mx | .008 | 9 |
| 127 | MP2A | X | 10.304 | 8 |
| 128 | MP2A | Z | 17.846 | 8 |
| 129 | MP2A | Mx | .019 | 8 |
| 130 | MP2A | X | 10.304 | 9 |
| 131 | MP2A | Z | 17.846 | 9 |
| 132 | MP2A | Mx | .019 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 0 | 5.25 |
| 2 | MP2A | Z | 194.128 | 5.25 |
| 3 | MP2A | Mx | .111 | 5.25 |
| 4 | MP2A | X | 0 | 9.5 |
| 5 | MP2A | Z | 194.128 | 9.5 |
| 6 | MP2A | Mx | .111 | 9.5 |
| 7 | MP2B | X | 0 | 5.25 |
| 8 | MP2B | Z | 179.327 | 5.25 |
| 9 | MP2B | Mx | -.148 | 5.25 |
| 10 | MP2B | X | 0 | 9.5 |
| 11 | MP2B | Z | 179.327 | 9.5 |
| 12 | MP2B | Mx | -.148 | 9.5 |
| 13 | MP2C | X | 0 | 5.25 |
| 14 | MP2C | Z | 145.665 | 5.25 |
| 15 | MP2C | Mx | .015 | 5.25 |
| 16 | MP2C | X | 0 | 9.5 |
| 17 | MP2C | Z | 145.665 | 9.5 |
| 18 | MP2C | Mx | .015 | 9.5 |
| 19 | MP2A | X | 0 | 5.25 |
| 20 | MP2A | Z | 194.128 | 5.25 |
| 21 | MP2A | Mx | -.144 | 5.25 |
| 22 | MP2A | X | 0 | 9.5 |
| 23 | MP2A | Z | 194.128 | 9.5 |
| 24 | MP2A | Mx | -.144 | 9.5 |
| 25 | MP2B | X | 0 | 5.25 |
| 26 | MP2B | Z | 179.327 | 5.25 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 27 | MP2B | Mx | .059 | 5.25 |
| 28 | MP2B | X | 0 | 9.5 |
| 29 | MP2B | Z | 179.327 | 9.5 |
| 30 | MP2B | Mx | .059 | 9.5 |
| 31 | MP2C | X | 0 | 5.25 |
| 32 | MP2C | Z | 145.665 | 5.25 |
| 33 | MP2C | Mx | .112 | 5.25 |
| 34 | MP2C | X | 0 | 9.5 |
| 35 | MP2C | Z | 145.665 | 9.5 |
| 36 | MP2C | Mx | .112 | 9.5 |
| 37 | MP4A | X | 0 | 6.75 |
| 38 | MP4A | Z | 82.737 | 6.75 |
| 39 | MP4A | Mx | -.007 | 6.75 |
| 40 | MP4A | X | 0 | 8 |
| 41 | MP4A | Z | 82.737 | 8 |
| 42 | MP4A | Mx | -.007 | 8 |
| 43 | MP4B | X | 0 | 6.75 |
| 44 | MP4B | Z | 70.572 | 6.75 |
| 45 | MP4B | Mx | -.018 | 6.75 |
| 46 | MP4B | X | 0 | 8 |
| 47 | MP4B | Z | 70.572 | 8 |
| 48 | MP4B | Mx | -.018 | 8 |
| 49 | MP4C | X | 0 | 6.75 |
| 50 | MP4C | Z | 42.903 | 6.75 |
| 51 | MP4C | Mx | .019 | 6.75 |
| 52 | MP4C | X | 0 | 8 |
| 53 | MP4C | Z | 42.903 | 8 |
| 54 | MP4C | Mx | .019 | 8 |
| 55 | MP2A | X | 0 | 6 |
| 56 | MP2A | Z | 19.199 | 6 |
| 57 | MP2A | Mx | .008 | 6 |
| 58 | MP2B | X | 0 | 6 |
| 59 | MP2B | Z | 18.495 | 6 |
| 60 | MP2B | Mx | -.000715 | 6 |
| 61 | MP2C | X | 0 | 6 |
| 62 | MP2C | Z | 16.892 | 6 |
| 63 | MP2C | Mx | -.01 | 6 |
| 64 | MP2A | X | 0 | 6 |
| 65 | MP2A | Z | 66.891 | 6 |
| 66 | MP2A | Mx | 0 | 6 |
| 67 | MP2B | X | 0 | 6 |
| 68 | MP2B | Z | 61.389 | 6 |
| 69 | MP2B | Mx | .015 | 6 |
| 70 | MP2C | X | 0 | 6 |
| 71 | MP2C | Z | 50.384 | 6 |
| 72 | MP2C | Mx | -.022 | 6 |
| 73 | R1 | X | 0 | 10.5 |
| 74 | R1 | Z | 58.96 | 10.5 |
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | 0 | 10.5 |
| 77 | R2 | Z | 58.96 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | 0 | 10.5 |
| 80 | R3 | Z | 58.96 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | 0 | .5 |
| 83 | MP1A | Z | 151.802 | .5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 84 | MP1A | Mx | 0 | .5 |
| 85 | MP1A | X | 0 | 5.5 |
| 86 | MP1A | Z | 151.802 | 5.5 |
| 87 | MP1A | Mx | 0 | 5.5 |
| 88 | MP1B | X | 0 | .5 |
| 89 | MP1B | Z | 137.402 | .5 |
| 90 | MP1B | Mx | -.059 | .5 |
| 91 | MP1B | X | 0 | 5.5 |
| 92 | MP1B | Z | 137.402 | 5.5 |
| 93 | MP1B | Mx | -.059 | 5.5 |
| 94 | MP1C | X | 0 | .5 |
| 95 | MP1C | Z | 137.402 | .5 |
| 96 | MP1C | Mx | .059 | .5 |
| 97 | MP1C | X | 0 | 5.5 |
| 98 | MP1C | Z | 137.402 | 5.5 |
| 99 | MP1C | Mx | .059 | 5.5 |
| 100 | MP5A | X | 0 | .5 |
| 101 | MP5A | Z | 151.802 | .5 |
| 102 | MP5A | Mx | 0 | .5 |
| 103 | MP5A | X | 0 | 5.5 |
| 104 | MP5A | Z | 151.802 | 5.5 |
| 105 | MP5A | Mx | 0 | 5.5 |
| 106 | MP5B | X | 0 | .5 |
| 107 | MP5B | Z | 137.402 | .5 |
| 108 | MP5B | Mx | -.059 | .5 |
| 109 | MP5B | X | 0 | 5.5 |
| 110 | MP5B | Z | 137.402 | 5.5 |
| 111 | MP5B | Mx | -.059 | 5.5 |
| 112 | MP5C | X | 0 | .5 |
| 113 | MP5C | Z | 137.402 | .5 |
| 114 | MP5C | Mx | .059 | .5 |
| 115 | MP5C | X | 0 | 5.5 |
| 116 | MP5C | Z | 137.402 | 5.5 |
| 117 | MP5C | Mx | .059 | 5.5 |
| 118 | GPS | X | 0 | .25 |
| 119 | GPS | Z | 5.749 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | 0 | 8 |
| 122 | MP2A | Z | 20.584 | 8 |
| 123 | MP2A | Mx | -.003 | 8 |
| 124 | MP2A | X | 0 | 9 |
| 125 | MP2A | Z | 20.584 | 9 |
| 126 | MP2A | Mx | -.003 | 9 |
| 127 | MP2A | X | 0 | 8 |
| 128 | MP2A | Z | 20.584 | 8 |
| 129 | MP2A | Mx | .01 | 8 |
| 130 | MP2A | X | 0 | 9 |
| 131 | MP2A | Z | 20.584 | 9 |
| 132 | MP2A | Mx | .01 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -94.141 | 5.25 |
| 2 | MP2A | Z | 163.058 | 5.25 |
| 3 | MP2A | Mx | .15 | 5.25 |
| 4 | MP2A | X | -94.141 | 9.5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 5 | MP2A | Z | 163.058 | 9.5 |
| 6 | MP2A | Mx | .15 | 9.5 |
| 7 | MP2B | X | -72.833 | 5.25 |
| 8 | MP2B | Z | 126.15 | 5.25 |
| 9 | MP2B | Mx | -.112 | 5.25 |
| 10 | MP2B | X | -72.833 | 9.5 |
| 11 | MP2B | Z | 126.15 | 9.5 |
| 12 | MP2B | Mx | -.112 | 9.5 |
| 13 | MP2C | X | -89.664 | 5.25 |
| 14 | MP2C | Z | 155.302 | 5.25 |
| 15 | MP2C | Mx | -.059 | 5.25 |
| 16 | MP2C | X | -89.664 | 9.5 |
| 17 | MP2C | Z | 155.302 | 9.5 |
| 18 | MP2C | Mx | -.059 | 9.5 |
| 19 | MP2A | X | -94.141 | 5.25 |
| 20 | MP2A | Z | 163.058 | 5.25 |
| 21 | MP2A | Mx | -.086 | 5.25 |
| 22 | MP2A | X | -94.141 | 9.5 |
| 23 | MP2A | Z | 163.058 | 9.5 |
| 24 | MP2A | Mx | -.086 | 9.5 |
| 25 | MP2B | X | -72.833 | 5.25 |
| 26 | MP2B | Z | 126.15 | 5.25 |
| 27 | MP2B | Mx | -.015 | 5.25 |
| 28 | MP2B | X | -72.833 | 9.5 |
| 29 | MP2B | Z | 126.15 | 9.5 |
| 30 | MP2B | Mx | -.015 | 9.5 |
| 31 | MP2C | X | -89.664 | 5.25 |
| 32 | MP2C | Z | 155.302 | 5.25 |
| 33 | MP2C | Mx | .148 | 5.25 |
| 34 | MP2C | X | -89.664 | 9.5 |
| 35 | MP2C | Z | 155.302 | 9.5 |
| 36 | MP2C | Mx | .148 | 9.5 |
| 37 | MP4A | X | -38.966 | 6.75 |
| 38 | MP4A | Z | 67.492 | 6.75 |
| 39 | MP4A | Mx | .013 | 6.75 |
| 40 | MP4A | X | -38.966 | 8 |
| 41 | MP4A | Z | 67.492 | 8 |
| 42 | MP4A | Mx | .013 | 8 |
| 43 | MP4B | X | -21.451 | 6.75 |
| 44 | MP4B | Z | 37.155 | 6.75 |
| 45 | MP4B | Mx | -.019 | 6.75 |
| 46 | MP4B | X | -21.451 | 8 |
| 47 | MP4B | Z | 37.155 | 8 |
| 48 | MP4B | Mx | -.019 | 8 |
| 49 | MP4C | X | -35.286 | 6.75 |
| 50 | MP4C | Z | 61.117 | 6.75 |
| 51 | MP4C | Mx | .018 | 6.75 |
| 52 | MP4C | X | -35.286 | 8 |
| 53 | MP4C | Z | 61.117 | 8 |
| 54 | MP4C | Mx | .018 | 8 |
| 55 | MP2A | X | -9.46 | 6 |
| 56 | MP2A | Z | 16.386 | 6 |
| 57 | MP2A | Mx | .003 | 6 |
| 58 | MP2B | X | -8.446 | 6 |
| 59 | MP2B | Z | 14.629 | 6 |
| 60 | MP2B | Mx | .004 | 6 |
| 61 | MP2C | X | -9.247 | 6 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 62 | MP2C | Z | 16.017 | 6 |
| 63 | MP2C | Mx | -.01 | 6 |
| 64 | MP2A | X | -30.694 | 6 |
| 65 | MP2A | Z | 53.164 | 6 |
| 66 | MP2A | Mx | -.015 | 6 |
| 67 | MP2B | X | -25.192 | 6 |
| 68 | MP2B | Z | 43.634 | 6 |
| 69 | MP2B | Mx | .022 | 6 |
| 70 | MP2C | X | -30.694 | 6 |
| 71 | MP2C | Z | 53.164 | 6 |
| 72 | MP2C | Mx | -.015 | 6 |
| 73 | R1 | X | -21.976 | 10.5 |
| 74 | R1 | Z | 38.063 | 10.5 |
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | -21.976 | 10.5 |
| 77 | R2 | Z | 38.063 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | -21.976 | 10.5 |
| 80 | R3 | Z | 38.063 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | -73.501 | .5 |
| 83 | MP1A | Z | 127.307 | .5 |
| 84 | MP1A | Mx | .037 | .5 |
| 85 | MP1A | X | -73.501 | 5.5 |
| 86 | MP1A | Z | 127.307 | 5.5 |
| 87 | MP1A | Mx | .037 | 5.5 |
| 88 | MP1B | X | -66.301 | .5 |
| 89 | MP1B | Z | 114.837 | .5 |
| 90 | MP1B | Mx | -.066 | .5 |
| 91 | MP1B | X | -66.301 | 5.5 |
| 92 | MP1B | Z | 114.837 | 5.5 |
| 93 | MP1B | Mx | -.066 | 5.5 |
| 94 | MP1C | X | -73.501 | .5 |
| 95 | MP1C | Z | 127.307 | .5 |
| 96 | MP1C | Mx | .037 | .5 |
| 97 | MP1C | X | -73.501 | 5.5 |
| 98 | MP1C | Z | 127.307 | 5.5 |
| 99 | MP1C | Mx | .037 | 5.5 |
| 100 | MP5A | X | -73.501 | .5 |
| 101 | MP5A | Z | 127.307 | .5 |
| 102 | MP5A | Mx | .037 | .5 |
| 103 | MP5A | X | -73.501 | 5.5 |
| 104 | MP5A | Z | 127.307 | 5.5 |
| 105 | MP5A | Mx | .037 | 5.5 |
| 106 | MP5B | X | -66.301 | .5 |
| 107 | MP5B | Z | 114.837 | .5 |
| 108 | MP5B | Mx | -.066 | .5 |
| 109 | MP5B | X | -66.301 | 5.5 |
| 110 | MP5B | Z | 114.837 | 5.5 |
| 111 | MP5B | Mx | -.066 | 5.5 |
| 112 | MP5C | X | -73.501 | .5 |
| 113 | MP5C | Z | 127.307 | .5 |
| 114 | MP5C | Mx | .037 | .5 |
| 115 | MP5C | X | -73.501 | 5.5 |
| 116 | MP5C | Z | 127.307 | 5.5 |
| 117 | MP5C | Mx | .037 | 5.5 |
| 118 | GPS | X | -3.477 | .25 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 119 | GPS | Z | 6.023 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | -10.295 | 8 |
| 122 | MP2A | Z | 17.831 | 8 |
| 123 | MP2A | Mx | -.013 | 8 |
| 124 | MP2A | X | -10.295 | 9 |
| 125 | MP2A | Z | 17.831 | 9 |
| 126 | MP2A | Mx | -.013 | 9 |
| 127 | MP2A | X | -10.295 | 8 |
| 128 | MP2A | Z | 17.831 | 8 |
| 129 | MP2A | Mx | -.000593 | 8 |
| 130 | MP2A | X | -10.295 | 9 |
| 131 | MP2A | Z | 17.831 | 9 |
| 132 | MP2A | Mx | -.000593 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -135.664 | 5.25 |
| 2 | MP2A | Z | 78.325 | 5.25 |
| 3 | MP2A | Mx | .127 | 5.25 |
| 4 | MP2A | X | -135.664 | 9.5 |
| 5 | MP2A | Z | 78.325 | 9.5 |
| 6 | MP2A | Mx | .127 | 9.5 |
| 7 | MP2B | X | -111.574 | 5.25 |
| 8 | MP2B | Z | 64.417 | 5.25 |
| 9 | MP2B | Mx | -.064 | 5.25 |
| 10 | MP2B | X | -111.574 | 9.5 |
| 11 | MP2B | Z | 64.417 | 9.5 |
| 12 | MP2B | Mx | -.064 | 9.5 |
| 13 | MP2C | X | -169.878 | 5.25 |
| 14 | MP2C | Z | 98.079 | 5.25 |
| 15 | MP2C | Mx | -.131 | 5.25 |
| 16 | MP2C | X | -169.878 | 9.5 |
| 17 | MP2C | Z | 98.079 | 9.5 |
| 18 | MP2C | Mx | -.131 | 9.5 |
| 19 | MP2A | X | -135.664 | 5.25 |
| 20 | MP2A | Z | 78.325 | 5.25 |
| 21 | MP2A | Mx | -.007 | 5.25 |
| 22 | MP2A | X | -135.664 | 9.5 |
| 23 | MP2A | Z | 78.325 | 9.5 |
| 24 | MP2A | Mx | -.007 | 9.5 |
| 25 | MP2B | X | -111.574 | 5.25 |
| 26 | MP2B | Z | 64.417 | 5.25 |
| 27 | MP2B | Mx | -.064 | 5.25 |
| 28 | MP2B | X | -111.574 | 9.5 |
| 29 | MP2B | Z | 64.417 | 9.5 |
| 30 | MP2B | Mx | -.064 | 9.5 |
| 31 | MP2C | X | -169.878 | 5.25 |
| 32 | MP2C | Z | 98.079 | 5.25 |
| 33 | MP2C | Mx | .131 | 5.25 |
| 34 | MP2C | X | -169.878 | 9.5 |
| 35 | MP2C | Z | 98.079 | 9.5 |
| 36 | MP2C | Mx | .131 | 9.5 |
| 37 | MP4A | X | -44.975 | 6.75 |
| 38 | MP4A | Z | 25.966 | 6.75 |
| 39 | MP4A | Mx | .02 | 6.75 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 40 | MP4A | X | -44.975 | 8 |
| 41 | MP4A | Z | 25.966 | 8 |
| 42 | MP4A | Mx | .02 | 8 |
| 43 | MP4B | X | -25.174 | 6.75 |
| 44 | MP4B | Z | 14.534 | 6.75 |
| 45 | MP4B | Mx | -.015 | 6.75 |
| 46 | MP4B | X | -25.174 | 8 |
| 47 | MP4B | Z | 14.534 | 8 |
| 48 | MP4B | Mx | -.015 | 8 |
| 49 | MP4C | X | -73.098 | 6.75 |
| 50 | MP4C | Z | 42.203 | 6.75 |
| 51 | MP4C | Mx | 0 | 6.75 |
| 52 | MP4C | X | -73.098 | 8 |
| 53 | MP4C | Z | 42.203 | 8 |
| 54 | MP4C | Mx | 0 | 8 |
| 55 | MP2A | X | -15.082 | 6 |
| 56 | MP2A | Z | 8.707 | 6 |
| 57 | MP2A | Mx | -.003 | 6 |
| 58 | MP2B | X | -13.935 | 6 |
| 59 | MP2B | Z | 8.045 | 6 |
| 60 | MP2B | Mx | .008 | 6 |
| 61 | MP2C | X | -16.711 | 6 |
| 62 | MP2C | Z | 9.648 | 6 |
| 63 | MP2C | Mx | -.006 | 6 |
| 64 | MP2A | X | -43.634 | 6 |
| 65 | MP2A | Z | 25.192 | 6 |
| 66 | MP2A | Mx | -.022 | 6 |
| 67 | MP2B | X | -38.869 | 6 |
| 68 | MP2B | Z | 22.441 | 6 |
| 69 | MP2B | Mx | .022 | 6 |
| 70 | MP2C | X | -57.929 | 6 |
| 71 | MP2C | Z | 33.446 | 6 |
| 72 | MP2C | Mx | 0 | 6 |
| 73 | R1 | X | -31.565 | 10.5 |
| 74 | R1 | Z | 18.224 | 10.5 |
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | -31.565 | 10.5 |
| 77 | R2 | Z | 18.224 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | -31.565 | 10.5 |
| 80 | R3 | Z | 18.224 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | -118.994 | .5 |
| 83 | MP1A | Z | 68.701 | .5 |
| 84 | MP1A | Mx | .059 | .5 |
| 85 | MP1A | X | -118.994 | 5.5 |
| 86 | MP1A | Z | 68.701 | 5.5 |
| 87 | MP1A | Mx | .059 | 5.5 |
| 88 | MP1B | X | -118.994 | .5 |
| 89 | MP1B | Z | 68.701 | .5 |
| 90 | MP1B | Mx | -.059 | .5 |
| 91 | MP1B | X | -118.994 | 5.5 |
| 92 | MP1B | Z | 68.701 | 5.5 |
| 93 | MP1B | Mx | -.059 | 5.5 |
| 94 | MP1C | X | -131.464 | .5 |
| 95 | MP1C | Z | 75.901 | .5 |
| 96 | MP1C | Mx | 0 | .5 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 97 | MP1C | X | -131.464 | 5.5 |
| 98 | MP1C | Z | 75.901 | 5.5 |
| 99 | MP1C | Mx | 0 | 5.5 |
| 100 | MP5A | X | -118.994 | .5 |
| 101 | MP5A | Z | 68.701 | .5 |
| 102 | MP5A | Mx | .059 | .5 |
| 103 | MP5A | X | -118.994 | 5.5 |
| 104 | MP5A | Z | 68.701 | 5.5 |
| 105 | MP5A | Mx | .059 | 5.5 |
| 106 | MP5B | X | -118.994 | .5 |
| 107 | MP5B | Z | 68.701 | .5 |
| 108 | MP5B | Mx | -.059 | .5 |
| 109 | MP5B | X | -118.994 | 5.5 |
| 110 | MP5B | Z | 68.701 | 5.5 |
| 111 | MP5B | Mx | -.059 | 5.5 |
| 112 | MP5C | X | -131.464 | .5 |
| 113 | MP5C | Z | 75.901 | .5 |
| 114 | MP5C | Mx | 0 | .5 |
| 115 | MP5C | X | -131.464 | 5.5 |
| 116 | MP5C | Z | 75.901 | 5.5 |
| 117 | MP5C | Mx | 0 | 5.5 |
| 118 | GPS | X | -6.545 | .25 |
| 119 | GPS | Z | 3.779 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | -17.856 | 8 |
| 122 | MP2A | Z | 10.309 | 8 |
| 123 | MP2A | Mx | -.02 | 8 |
| 124 | MP2A | X | -17.856 | 9 |
| 125 | MP2A | Z | 10.309 | 9 |
| 126 | MP2A | Mx | -.02 | 9 |
| 127 | MP2A | X | -17.856 | 8 |
| 128 | MP2A | Z | 10.309 | 8 |
| 129 | MP2A | Mx | -.011 | 8 |
| 130 | MP2A | X | -17.856 | 9 |
| 131 | MP2A | Z | 10.309 | 9 |
| 132 | MP2A | Mx | -.011 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -130.864 | 5.25 |
| 2 | MP2A | Z | 0 | 5.25 |
| 3 | MP2A | Mx | .08 | 5.25 |
| 4 | MP2A | X | -130.864 | 9.5 |
| 5 | MP2A | Z | 0 | 9.5 |
| 6 | MP2A | Mx | .08 | 9.5 |
| 7 | MP2B | X | -145.665 | 5.25 |
| 8 | MP2B | Z | 0 | 5.25 |
| 9 | MP2B | Mx | -.015 | 5.25 |
| 10 | MP2B | X | -145.665 | 9.5 |
| 11 | MP2B | Z | 0 | 9.5 |
| 12 | MP2B | Mx | -.015 | 9.5 |
| 13 | MP2C | X | -179.327 | 5.25 |
| 14 | MP2C | Z | 0 | 5.25 |
| 15 | MP2C | Mx | -.148 | 5.25 |
| 16 | MP2C | X | -179.327 | 9.5 |
| 17 | MP2C | Z | 0 | 9.5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 18 | MP2C | Mx | -.148 | 9.5 |
| 19 | MP2A | X | -130.864 | 5.25 |
| 20 | MP2A | Z | 0 | 5.25 |
| 21 | MP2A | Mx | .049 | 5.25 |
| 22 | MP2A | X | -130.864 | 9.5 |
| 23 | MP2A | Z | 0 | 9.5 |
| 24 | MP2A | Mx | .049 | 9.5 |
| 25 | MP2B | X | -145.665 | 5.25 |
| 26 | MP2B | Z | 0 | 5.25 |
| 27 | MP2B | Mx | -.112 | 5.25 |
| 28 | MP2B | X | -145.665 | 9.5 |
| 29 | MP2B | Z | 0 | 9.5 |
| 30 | MP2B | Mx | -.112 | 9.5 |
| 31 | MP2C | X | -179.327 | 5.25 |
| 32 | MP2C | Z | 0 | 5.25 |
| 33 | MP2C | Mx | .059 | 5.25 |
| 34 | MP2C | X | -179.327 | 9.5 |
| 35 | MP2C | Z | 0 | 9.5 |
| 36 | MP2C | Mx | .059 | 9.5 |
| 37 | MP4A | X | -30.737 | 6.75 |
| 38 | MP4A | Z | 0 | 6.75 |
| 39 | MP4A | Mx | .015 | 6.75 |
| 40 | MP4A | X | -30.737 | 8 |
| 41 | MP4A | Z | 0 | 8 |
| 42 | MP4A | Mx | .015 | 8 |
| 43 | MP4B | X | -42.903 | 6.75 |
| 44 | MP4B | Z | 0 | 6.75 |
| 45 | MP4B | Mx | -.019 | 6.75 |
| 46 | MP4B | X | -42.903 | 8 |
| 47 | MP4B | Z | 0 | 8 |
| 48 | MP4B | Mx | -.019 | 8 |
| 49 | MP4C | X | -70.572 | 6.75 |
| 50 | MP4C | Z | 0 | 6.75 |
| 51 | MP4C | Mx | -.018 | 6.75 |
| 52 | MP4C | X | -70.572 | 8 |
| 53 | MP4C | Z | 0 | 8 |
| 54 | MP4C | Mx | -.018 | 8 |
| 55 | MP2A | X | -16.187 | 6 |
| 56 | MP2A | Z | 0 | 6 |
| 57 | MP2A | Mx | -.007 | 6 |
| 58 | MP2B | X | -16.892 | 6 |
| 59 | MP2B | Z | 0 | 6 |
| 60 | MP2B | Mx | .01 | 6 |
| 61 | MP2C | X | -18.495 | 6 |
| 62 | MP2C | Z | 0 | 6 |
| 63 | MP2C | Mx | -.000715 | 6 |
| 64 | MP2A | X | -44.882 | 6 |
| 65 | MP2A | Z | 0 | 6 |
| 66 | MP2A | Mx | -.022 | 6 |
| 67 | MP2B | X | -50.384 | 6 |
| 68 | MP2B | Z | 0 | 6 |
| 69 | MP2B | Mx | .022 | 6 |
| 70 | MP2C | X | -61.389 | 6 |
| 71 | MP2C | Z | 0 | 6 |
| 72 | MP2C | Mx | .015 | 6 |
| 73 | R1 | X | -43.952 | 10.5 |
| 74 | R1 | Z | 0 | 10.5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | -43.952 | 10.5 |
| 77 | R2 | Z | 0 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | -43.952 | 10.5 |
| 80 | R3 | Z | 0 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | -132.602 | .5 |
| 83 | MP1A | Z | 0 | .5 |
| 84 | MP1A | Mx | .066 | .5 |
| 85 | MP1A | X | -132.602 | 5.5 |
| 86 | MP1A | Z | 0 | 5.5 |
| 87 | MP1A | Mx | .066 | 5.5 |
| 88 | MP1B | X | -147.002 | .5 |
| 89 | MP1B | Z | 0 | .5 |
| 90 | MP1B | Mx | -.037 | .5 |
| 91 | MP1B | X | -147.002 | 5.5 |
| 92 | MP1B | Z | 0 | 5.5 |
| 93 | MP1B | Mx | -.037 | 5.5 |
| 94 | MP1C | X | -147.002 | .5 |
| 95 | MP1C | Z | 0 | .5 |
| 96 | MP1C | Mx | -.037 | .5 |
| 97 | MP1C | X | -147.002 | 5.5 |
| 98 | MP1C | Z | 0 | 5.5 |
| 99 | MP1C | Mx | -.037 | 5.5 |
| 100 | MP5A | X | -132.602 | .5 |
| 101 | MP5A | Z | 0 | .5 |
| 102 | MP5A | Mx | .066 | .5 |
| 103 | MP5A | X | -132.602 | 5.5 |
| 104 | MP5A | Z | 0 | 5.5 |
| 105 | MP5A | Mx | .066 | 5.5 |
| 106 | MP5B | X | -147.002 | .5 |
| 107 | MP5B | Z | 0 | .5 |
| 108 | MP5B | Mx | -.037 | .5 |
| 109 | MP5B | X | -147.002 | 5.5 |
| 110 | MP5B | Z | 0 | 5.5 |
| 111 | MP5B | Mx | -.037 | 5.5 |
| 112 | MP5C | X | -147.002 | .5 |
| 113 | MP5C | Z | 0 | .5 |
| 114 | MP5C | Mx | -.037 | .5 |
| 115 | MP5C | X | -147.002 | 5.5 |
| 116 | MP5C | Z | 0 | 5.5 |
| 117 | MP5C | Mx | -.037 | 5.5 |
| 118 | GPS | X | -6.955 | .25 |
| 119 | GPS | Z | 0 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | -20.641 | 8 |
| 122 | MP2A | Z | 0 | 8 |
| 123 | MP2A | Mx | -.022 | 8 |
| 124 | MP2A | X | -20.641 | 9 |
| 125 | MP2A | Z | 0 | 9 |
| 126 | MP2A | Mx | -.022 | 9 |
| 127 | MP2A | X | -20.641 | 8 |
| 128 | MP2A | Z | 0 | 8 |
| 129 | MP2A | Mx | -.019 | 8 |
| 130 | MP2A | X | -20.641 | 9 |
| 131 | MP2A | Z | 0 | 9 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 132 | MP2A | Mx | -0.19 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -118.394 | 5.25 |
| 2 | MP2A | Z | -68.355 | 5.25 |
| 3 | MP2A | Mx | .033 | 5.25 |
| 4 | MP2A | X | -118.394 | 9.5 |
| 5 | MP2A | Z | -68.355 | 9.5 |
| 6 | MP2A | Mx | .033 | 9.5 |
| 7 | MP2B | X | -155.302 | 5.25 |
| 8 | MP2B | Z | -89.664 | 5.25 |
| 9 | MP2B | Mx | .059 | 5.25 |
| 10 | MP2B | X | -155.302 | 9.5 |
| 11 | MP2B | Z | -89.664 | 9.5 |
| 12 | MP2B | Mx | .059 | 9.5 |
| 13 | MP2C | X | -126.15 | 5.25 |
| 14 | MP2C | Z | -72.833 | 5.25 |
| 15 | MP2C | Mx | -.112 | 5.25 |
| 16 | MP2C | X | -126.15 | 9.5 |
| 17 | MP2C | Z | -72.833 | 9.5 |
| 18 | MP2C | Mx | -.112 | 9.5 |
| 19 | MP2A | X | -118.394 | 5.25 |
| 20 | MP2A | Z | -68.355 | 5.25 |
| 21 | MP2A | Mx | .095 | 5.25 |
| 22 | MP2A | X | -118.394 | 9.5 |
| 23 | MP2A | Z | -68.355 | 9.5 |
| 24 | MP2A | Mx | .095 | 9.5 |
| 25 | MP2B | X | -155.302 | 5.25 |
| 26 | MP2B | Z | -89.664 | 5.25 |
| 27 | MP2B | Mx | -.148 | 5.25 |
| 28 | MP2B | X | -155.302 | 9.5 |
| 29 | MP2B | Z | -89.664 | 9.5 |
| 30 | MP2B | Mx | -.148 | 9.5 |
| 31 | MP2C | X | -126.15 | 5.25 |
| 32 | MP2C | Z | -72.833 | 5.25 |
| 33 | MP2C | Mx | -.015 | 5.25 |
| 34 | MP2C | X | -126.15 | 9.5 |
| 35 | MP2C | Z | -72.833 | 9.5 |
| 36 | MP2C | Mx | -.015 | 9.5 |
| 37 | MP4A | X | -30.78 | 6.75 |
| 38 | MP4A | Z | -17.771 | 6.75 |
| 39 | MP4A | Mx | .017 | 6.75 |
| 40 | MP4A | X | -30.78 | 8 |
| 41 | MP4A | Z | -17.771 | 8 |
| 42 | MP4A | Mx | .017 | 8 |
| 43 | MP4B | X | -61.117 | 6.75 |
| 44 | MP4B | Z | -35.286 | 6.75 |
| 45 | MP4B | Mx | -.018 | 6.75 |
| 46 | MP4B | X | -61.117 | 8 |
| 47 | MP4B | Z | -35.286 | 8 |
| 48 | MP4B | Mx | -.018 | 8 |
| 49 | MP4C | X | -37.155 | 6.75 |
| 50 | MP4C | Z | -21.451 | 6.75 |
| 51 | MP4C | Mx | -.019 | 6.75 |
| 52 | MP4C | X | -37.155 | 8 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 53 | MP4C | Z | -21.451 | 8 |
| 54 | MP4C | Mx | -.019 | 8 |
| 55 | MP2A | X | -14.26 | 6 |
| 56 | MP2A | Z | -8.233 | 6 |
| 57 | MP2A | Mx | -.01 | 6 |
| 58 | MP2B | X | -16.017 | 6 |
| 59 | MP2B | Z | -9.247 | 6 |
| 60 | MP2B | Mx | .01 | 6 |
| 61 | MP2C | X | -14.629 | 6 |
| 62 | MP2C | Z | -8.446 | 6 |
| 63 | MP2C | Mx | .004 | 6 |
| 64 | MP2A | X | -43.634 | 6 |
| 65 | MP2A | Z | -25.192 | 6 |
| 66 | MP2A | Mx | -.022 | 6 |
| 67 | MP2B | X | -53.164 | 6 |
| 68 | MP2B | Z | -30.694 | 6 |
| 69 | MP2B | Mx | .015 | 6 |
| 70 | MP2C | X | -43.634 | 6 |
| 71 | MP2C | Z | -25.192 | 6 |
| 72 | MP2C | Mx | .022 | 6 |
| 73 | R1 | X | -51.061 | 10.5 |
| 74 | R1 | Z | -29.48 | 10.5 |
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | -51.061 | 10.5 |
| 77 | R2 | Z | -29.48 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | -51.061 | 10.5 |
| 80 | R3 | Z | -29.48 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | -118.994 | .5 |
| 83 | MP1A | Z | -68.701 | .5 |
| 84 | MP1A | Mx | .059 | .5 |
| 85 | MP1A | X | -118.994 | 5.5 |
| 86 | MP1A | Z | -68.701 | 5.5 |
| 87 | MP1A | Mx | .059 | 5.5 |
| 88 | MP1B | X | -131.464 | .5 |
| 89 | MP1B | Z | -75.901 | .5 |
| 90 | MP1B | Mx | 0 | .5 |
| 91 | MP1B | X | -131.464 | 5.5 |
| 92 | MP1B | Z | -75.901 | 5.5 |
| 93 | MP1B | Mx | 0 | 5.5 |
| 94 | MP1C | X | -118.994 | .5 |
| 95 | MP1C | Z | -68.701 | .5 |
| 96 | MP1C | Mx | -.059 | .5 |
| 97 | MP1C | X | -118.994 | 5.5 |
| 98 | MP1C | Z | -68.701 | 5.5 |
| 99 | MP1C | Mx | -.059 | 5.5 |
| 100 | MP5A | X | -118.994 | .5 |
| 101 | MP5A | Z | -68.701 | .5 |
| 102 | MP5A | Mx | .059 | .5 |
| 103 | MP5A | X | -118.994 | 5.5 |
| 104 | MP5A | Z | -68.701 | 5.5 |
| 105 | MP5A | Mx | .059 | 5.5 |
| 106 | MP5B | X | -131.464 | .5 |
| 107 | MP5B | Z | -75.901 | .5 |
| 108 | MP5B | Mx | 0 | .5 |
| 109 | MP5B | X | -131.464 | 5.5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 110 | MP5B | Z | -75.901 | 5.5 |
| 111 | MP5B | Mx | 0 | 5.5 |
| 112 | MP5C | X | -118.994 | .5 |
| 113 | MP5C | Z | -68.701 | .5 |
| 114 | MP5C | Mx | -.059 | .5 |
| 115 | MP5C | X | -118.994 | 5.5 |
| 116 | MP5C | Z | -68.701 | 5.5 |
| 117 | MP5C | Mx | -.059 | 5.5 |
| 118 | GPS | X | -4.978 | .25 |
| 119 | GPS | Z | -2.874 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | -17.871 | 8 |
| 122 | MP2A | Z | -10.318 | 8 |
| 123 | MP2A | Mx | -.017 | 8 |
| 124 | MP2A | X | -17.871 | 9 |
| 125 | MP2A | Z | -10.318 | 9 |
| 126 | MP2A | Mx | -.017 | 9 |
| 127 | MP2A | X | -17.871 | 8 |
| 128 | MP2A | Z | -10.318 | 8 |
| 129 | MP2A | Mx | -.022 | 8 |
| 130 | MP2A | X | -17.871 | 9 |
| 131 | MP2A | Z | -10.318 | 9 |
| 132 | MP2A | Mx | -.022 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -84.171 | 5.25 |
| 2 | MP2A | Z | -145.788 | 5.25 |
| 3 | MP2A | Mx | -.032 | 5.25 |
| 4 | MP2A | X | -84.171 | 9.5 |
| 5 | MP2A | Z | -145.788 | 9.5 |
| 6 | MP2A | Mx | -.032 | 9.5 |
| 7 | MP2B | X | -98.079 | 5.25 |
| 8 | MP2B | Z | -169.878 | 5.25 |
| 9 | MP2B | Mx | .131 | 5.25 |
| 10 | MP2B | X | -98.079 | 9.5 |
| 11 | MP2B | Z | -169.878 | 9.5 |
| 12 | MP2B | Mx | .131 | 9.5 |
| 13 | MP2C | X | -64.417 | 5.25 |
| 14 | MP2C | Z | -111.574 | 5.25 |
| 15 | MP2C | Mx | -.064 | 5.25 |
| 16 | MP2C | X | -64.417 | 9.5 |
| 17 | MP2C | Z | -111.574 | 9.5 |
| 18 | MP2C | Mx | -.064 | 9.5 |
| 19 | MP2A | X | -84.171 | 5.25 |
| 20 | MP2A | Z | -145.788 | 5.25 |
| 21 | MP2A | Mx | .14 | 5.25 |
| 22 | MP2A | X | -84.171 | 9.5 |
| 23 | MP2A | Z | -145.788 | 9.5 |
| 24 | MP2A | Mx | .14 | 9.5 |
| 25 | MP2B | X | -98.079 | 5.25 |
| 26 | MP2B | Z | -169.878 | 5.25 |
| 27 | MP2B | Mx | -.131 | 5.25 |
| 28 | MP2B | X | -98.079 | 9.5 |
| 29 | MP2B | Z | -169.878 | 9.5 |
| 30 | MP2B | Mx | -.131 | 9.5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 31 | MP2C | X | -64.417 | 5.25 |
| 32 | MP2C | Z | -111.574 | 5.25 |
| 33 | MP2C | Mx | -.064 | 5.25 |
| 34 | MP2C | X | -64.417 | 9.5 |
| 35 | MP2C | Z | -111.574 | 9.5 |
| 36 | MP2C | Mx | -.064 | 9.5 |
| 37 | MP4A | X | -30.771 | 6.75 |
| 38 | MP4A | Z | -53.297 | 6.75 |
| 39 | MP4A | Mx | .02 | 6.75 |
| 40 | MP4A | X | -30.771 | 8 |
| 41 | MP4A | Z | -53.297 | 8 |
| 42 | MP4A | Mx | .02 | 8 |
| 43 | MP4B | X | -42.203 | 6.75 |
| 44 | MP4B | Z | -73.098 | 6.75 |
| 45 | MP4B | Mx | 0 | 6.75 |
| 46 | MP4B | X | -42.203 | 8 |
| 47 | MP4B | Z | -73.098 | 8 |
| 48 | MP4B | Mx | 0 | 8 |
| 49 | MP4C | X | -14.534 | 6.75 |
| 50 | MP4C | Z | -25.174 | 6.75 |
| 51 | MP4C | Mx | -.015 | 6.75 |
| 52 | MP4C | X | -14.534 | 8 |
| 53 | MP4C | Z | -25.174 | 8 |
| 54 | MP4C | Mx | -.015 | 8 |
| 55 | MP2A | X | -8.986 | 6 |
| 56 | MP2A | Z | -15.564 | 6 |
| 57 | MP2A | Mx | -.01 | 6 |
| 58 | MP2B | X | -9.648 | 6 |
| 59 | MP2B | Z | -16.711 | 6 |
| 60 | MP2B | Mx | .006 | 6 |
| 61 | MP2C | X | -8.045 | 6 |
| 62 | MP2C | Z | -13.935 | 6 |
| 63 | MP2C | Mx | .008 | 6 |
| 64 | MP2A | X | -30.694 | 6 |
| 65 | MP2A | Z | -53.164 | 6 |
| 66 | MP2A | Mx | -.015 | 6 |
| 67 | MP2B | X | -33.446 | 6 |
| 68 | MP2B | Z | -57.929 | 6 |
| 69 | MP2B | Mx | 0 | 6 |
| 70 | MP2C | X | -22.441 | 6 |
| 71 | MP2C | Z | -38.869 | 6 |
| 72 | MP2C | Mx | .022 | 6 |
| 73 | R1 | X | -33.232 | 10.5 |
| 74 | R1 | Z | -57.559 | 10.5 |
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | -33.232 | 10.5 |
| 77 | R2 | Z | -57.559 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | -33.232 | 10.5 |
| 80 | R3 | Z | -57.559 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | -73.501 | .5 |
| 83 | MP1A | Z | -127.307 | .5 |
| 84 | MP1A | Mx | .037 | .5 |
| 85 | MP1A | X | -73.501 | 5.5 |
| 86 | MP1A | Z | -127.307 | 5.5 |
| 87 | MP1A | Mx | .037 | 5.5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 88 | MP1B | X | -73.501 | .5 |
| 89 | MP1B | Z | -127.307 | .5 |
| 90 | MP1B | Mx | .037 | .5 |
| 91 | MP1B | X | -73.501 | 5.5 |
| 92 | MP1B | Z | -127.307 | 5.5 |
| 93 | MP1B | Mx | .037 | 5.5 |
| 94 | MP1C | X | -66.301 | .5 |
| 95 | MP1C | Z | -114.837 | .5 |
| 96 | MP1C | Mx | -.066 | .5 |
| 97 | MP1C | X | -66.301 | 5.5 |
| 98 | MP1C | Z | -114.837 | 5.5 |
| 99 | MP1C | Mx | -.066 | 5.5 |
| 100 | MP5A | X | -73.501 | .5 |
| 101 | MP5A | Z | -127.307 | .5 |
| 102 | MP5A | Mx | .037 | .5 |
| 103 | MP5A | X | -73.501 | 5.5 |
| 104 | MP5A | Z | -127.307 | 5.5 |
| 105 | MP5A | Mx | .037 | 5.5 |
| 106 | MP5B | X | -73.501 | .5 |
| 107 | MP5B | Z | -127.307 | .5 |
| 108 | MP5B | Mx | .037 | .5 |
| 109 | MP5B | X | -73.501 | 5.5 |
| 110 | MP5B | Z | -127.307 | 5.5 |
| 111 | MP5B | Mx | .037 | 5.5 |
| 112 | MP5C | X | -66.301 | .5 |
| 113 | MP5C | Z | -114.837 | .5 |
| 114 | MP5C | Mx | -.066 | .5 |
| 115 | MP5C | X | -66.301 | 5.5 |
| 116 | MP5C | Z | -114.837 | 5.5 |
| 117 | MP5C | Mx | -.066 | 5.5 |
| 118 | GPS | X | -2.573 | .25 |
| 119 | GPS | Z | -4.456 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | -10.304 | 8 |
| 122 | MP2A | Z | -17.846 | 8 |
| 123 | MP2A | Mx | -.008 | 8 |
| 124 | MP2A | X | -10.304 | 9 |
| 125 | MP2A | Z | -17.846 | 9 |
| 126 | MP2A | Mx | -.008 | 9 |
| 127 | MP2A | X | -10.304 | 8 |
| 128 | MP2A | Z | -17.846 | 8 |
| 129 | MP2A | Mx | -.019 | 8 |
| 130 | MP2A | X | -10.304 | 9 |
| 131 | MP2A | Z | -17.846 | 9 |
| 132 | MP2A | Mx | -.019 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 0 | 5.25 |
| 2 | MP2A | Z | -33.96 | 5.25 |
| 3 | MP2A | Mx | -.019 | 5.25 |
| 4 | MP2A | X | 0 | 9.5 |
| 5 | MP2A | Z | -33.96 | 9.5 |
| 6 | MP2A | Mx | -.019 | 9.5 |
| 7 | MP2B | X | 0 | 5.25 |
| 8 | MP2B | Z | -31.558 | 5.25 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 9 | MP2B | Mx | .026 | 5.25 |
| 10 | MP2B | X | 0 | 9.5 |
| 11 | MP2B | Z | -31.558 | 9.5 |
| 12 | MP2B | Mx | .026 | 9.5 |
| 13 | MP2C | X | 0 | 5.25 |
| 14 | MP2C | Z | -26.095 | 5.25 |
| 15 | MP2C | Mx | -.003 | 5.25 |
| 16 | MP2C | X | 0 | 9.5 |
| 17 | MP2C | Z | -26.095 | 9.5 |
| 18 | MP2C | Mx | -.003 | 9.5 |
| 19 | MP2A | X | 0 | 5.25 |
| 20 | MP2A | Z | -33.96 | 5.25 |
| 21 | MP2A | Mx | .025 | 5.25 |
| 22 | MP2A | X | 0 | 9.5 |
| 23 | MP2A | Z | -33.96 | 9.5 |
| 24 | MP2A | Mx | .025 | 9.5 |
| 25 | MP2B | X | 0 | 5.25 |
| 26 | MP2B | Z | -31.558 | 5.25 |
| 27 | MP2B | Mx | -.01 | 5.25 |
| 28 | MP2B | X | 0 | 9.5 |
| 29 | MP2B | Z | -31.558 | 9.5 |
| 30 | MP2B | Mx | -.01 | 9.5 |
| 31 | MP2C | X | 0 | 5.25 |
| 32 | MP2C | Z | -26.095 | 5.25 |
| 33 | MP2C | Mx | -.02 | 5.25 |
| 34 | MP2C | X | 0 | 9.5 |
| 35 | MP2C | Z | -26.095 | 9.5 |
| 36 | MP2C | Mx | -.02 | 9.5 |
| 37 | MP4A | X | 0 | 6.75 |
| 38 | MP4A | Z | -17.906 | 6.75 |
| 39 | MP4A | Mx | .002 | 6.75 |
| 40 | MP4A | X | 0 | 8 |
| 41 | MP4A | Z | -17.906 | 8 |
| 42 | MP4A | Mx | .002 | 8 |
| 43 | MP4B | X | 0 | 6.75 |
| 44 | MP4B | Z | -15.601 | 6.75 |
| 45 | MP4B | Mx | .004 | 6.75 |
| 46 | MP4B | X | 0 | 8 |
| 47 | MP4B | Z | -15.601 | 8 |
| 48 | MP4B | Mx | .004 | 8 |
| 49 | MP4C | X | 0 | 6.75 |
| 50 | MP4C | Z | -10.36 | 6.75 |
| 51 | MP4C | Mx | -.004 | 6.75 |
| 52 | MP4C | X | 0 | 8 |
| 53 | MP4C | Z | -10.36 | 8 |
| 54 | MP4C | Mx | -.004 | 8 |
| 55 | MP2A | X | 0 | 6 |
| 56 | MP2A | Z | -3.852 | 6 |
| 57 | MP2A | Mx | -.002 | 6 |
| 58 | MP2B | X | 0 | 6 |
| 59 | MP2B | Z | -3.829 | 6 |
| 60 | MP2B | Mx | .000148 | 6 |
| 61 | MP2C | X | 0 | 6 |
| 62 | MP2C | Z | -3.777 | 6 |
| 63 | MP2C | Mx | .002 | 6 |
| 64 | MP2A | X | 0 | 6 |
| 65 | MP2A | Z | -15.364 | 6 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 66 | MP2A | Mx | 0 | 6 |
| 67 | MP2B | X | 0 | 6 |
| 68 | MP2B | Z | -14.192 | 6 |
| 69 | MP2B | Mx | -.004 | 6 |
| 70 | MP2C | X | 0 | 6 |
| 71 | MP2C | Z | -11.846 | 6 |
| 72 | MP2C | Mx | .005 | 6 |
| 73 | R1 | X | 0 | 10.5 |
| 74 | R1 | Z | -13.651 | 10.5 |
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | 0 | 10.5 |
| 77 | R2 | Z | -13.651 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | 0 | 10.5 |
| 80 | R3 | Z | -13.651 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | 0 | .5 |
| 83 | MP1A | Z | -26.909 | .5 |
| 84 | MP1A | Mx | 0 | .5 |
| 85 | MP1A | X | 0 | 5.5 |
| 86 | MP1A | Z | -26.909 | 5.5 |
| 87 | MP1A | Mx | 0 | 5.5 |
| 88 | MP1B | X | 0 | .5 |
| 89 | MP1B | Z | -24.705 | .5 |
| 90 | MP1B | Mx | .011 | .5 |
| 91 | MP1B | X | 0 | 5.5 |
| 92 | MP1B | Z | -24.705 | 5.5 |
| 93 | MP1B | Mx | .011 | 5.5 |
| 94 | MP1C | X | 0 | .5 |
| 95 | MP1C | Z | -24.705 | .5 |
| 96 | MP1C | Mx | -.011 | .5 |
| 97 | MP1C | X | 0 | 5.5 |
| 98 | MP1C | Z | -24.705 | 5.5 |
| 99 | MP1C | Mx | -.011 | 5.5 |
| 100 | MP5A | X | 0 | .5 |
| 101 | MP5A | Z | -26.909 | .5 |
| 102 | MP5A | Mx | 0 | .5 |
| 103 | MP5A | X | 0 | 5.5 |
| 104 | MP5A | Z | -26.909 | 5.5 |
| 105 | MP5A | Mx | 0 | 5.5 |
| 106 | MP5B | X | 0 | .5 |
| 107 | MP5B | Z | -24.705 | .5 |
| 108 | MP5B | Mx | .011 | .5 |
| 109 | MP5B | X | 0 | 5.5 |
| 110 | MP5B | Z | -24.705 | 5.5 |
| 111 | MP5B | Mx | .011 | 5.5 |
| 112 | MP5C | X | 0 | .5 |
| 113 | MP5C | Z | -24.705 | .5 |
| 114 | MP5C | Mx | -.011 | .5 |
| 115 | MP5C | X | 0 | 5.5 |
| 116 | MP5C | Z | -24.705 | 5.5 |
| 117 | MP5C | Mx | -.011 | 5.5 |
| 118 | GPS | X | 0 | .25 |
| 119 | GPS | Z | -2.058 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | 0 | 8 |
| 122 | MP2A | Z | -1.644 | 8 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 123 | MP2A | Mx | .000254 | 8 |
| 124 | MP2A | X | 0 | 9 |
| 125 | MP2A | Z | -1.644 | 9 |
| 126 | MP2A | Mx | .000254 | 9 |
| 127 | MP2A | X | 0 | 8 |
| 128 | MP2A | Z | -1.644 | 8 |
| 129 | MP2A | Mx | -.000825 | 8 |
| 130 | MP2A | X | 0 | 9 |
| 131 | MP2A | Z | -1.644 | 9 |
| 132 | MP2A | Mx | -.000825 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 16.506 | 5.25 |
| 2 | MP2A | Z | -28.589 | 5.25 |
| 3 | MP2A | Mx | -.026 | 5.25 |
| 4 | MP2A | X | 16.506 | 9.5 |
| 5 | MP2A | Z | -28.589 | 9.5 |
| 6 | MP2A | Mx | -.026 | 9.5 |
| 7 | MP2B | X | 13.047 | 5.25 |
| 8 | MP2B | Z | -22.599 | 5.25 |
| 9 | MP2B | Mx | .02 | 5.25 |
| 10 | MP2B | X | 13.047 | 9.5 |
| 11 | MP2B | Z | -22.599 | 9.5 |
| 12 | MP2B | Mx | .02 | 9.5 |
| 13 | MP2C | X | 15.779 | 5.25 |
| 14 | MP2C | Z | -27.33 | 5.25 |
| 15 | MP2C | Mx | .01 | 5.25 |
| 16 | MP2C | X | 15.779 | 9.5 |
| 17 | MP2C | Z | -27.33 | 9.5 |
| 18 | MP2C | Mx | .01 | 9.5 |
| 19 | MP2A | X | 16.506 | 5.25 |
| 20 | MP2A | Z | -28.589 | 5.25 |
| 21 | MP2A | Mx | .015 | 5.25 |
| 22 | MP2A | X | 16.506 | 9.5 |
| 23 | MP2A | Z | -28.589 | 9.5 |
| 24 | MP2A | Mx | .015 | 9.5 |
| 25 | MP2B | X | 13.047 | 5.25 |
| 26 | MP2B | Z | -22.599 | 5.25 |
| 27 | MP2B | Mx | .003 | 5.25 |
| 28 | MP2B | X | 13.047 | 9.5 |
| 29 | MP2B | Z | -22.599 | 9.5 |
| 30 | MP2B | Mx | .003 | 9.5 |
| 31 | MP2C | X | 15.779 | 5.25 |
| 32 | MP2C | Z | -27.33 | 5.25 |
| 33 | MP2C | Mx | -.026 | 5.25 |
| 34 | MP2C | X | 15.779 | 9.5 |
| 35 | MP2C | Z | -27.33 | 9.5 |
| 36 | MP2C | Mx | -.026 | 9.5 |
| 37 | MP4A | X | 8.498 | 6.75 |
| 38 | MP4A | Z | -14.718 | 6.75 |
| 39 | MP4A | Mx | -.003 | 6.75 |
| 40 | MP4A | X | 8.498 | 8 |
| 41 | MP4A | Z | -14.718 | 8 |
| 42 | MP4A | Mx | -.003 | 8 |
| 43 | MP4B | X | 5.18 | 6.75 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 44 | MP4B | Z | -8.972 | 6.75 |
| 45 | MP4B | Mx | .004 | 6.75 |
| 46 | MP4B | X | 5.18 | 8 |
| 47 | MP4B | Z | -8.972 | 8 |
| 48 | MP4B | Mx | .004 | 8 |
| 49 | MP4C | X | 7.801 | 6.75 |
| 50 | MP4C | Z | -13.511 | 6.75 |
| 51 | MP4C | Mx | -.004 | 6.75 |
| 52 | MP4C | X | 7.801 | 8 |
| 53 | MP4C | Z | -13.511 | 8 |
| 54 | MP4C | Mx | -.004 | 8 |
| 55 | MP2A | X | 1.922 | 6 |
| 56 | MP2A | Z | -3.328 | 6 |
| 57 | MP2A | Mx | -.000546 | 6 |
| 58 | MP2B | X | 1.888 | 6 |
| 59 | MP2B | Z | -3.271 | 6 |
| 60 | MP2B | Mx | -.001 | 6 |
| 61 | MP2C | X | 1.915 | 6 |
| 62 | MP2C | Z | -3.316 | 6 |
| 63 | MP2C | Mx | .002 | 6 |
| 64 | MP2A | X | 7.096 | 6 |
| 65 | MP2A | Z | -12.29 | 6 |
| 66 | MP2A | Mx | .004 | 6 |
| 67 | MP2B | X | 5.923 | 6 |
| 68 | MP2B | Z | -10.259 | 6 |
| 69 | MP2B | Mx | -.005 | 6 |
| 70 | MP2C | X | 7.096 | 6 |
| 71 | MP2C | Z | -12.29 | 6 |
| 72 | MP2C | Mx | .004 | 6 |
| 73 | R1 | X | 5.218 | 10.5 |
| 74 | R1 | Z | -9.038 | 10.5 |
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | 5.218 | 10.5 |
| 77 | R2 | Z | -9.038 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | 5.218 | 10.5 |
| 80 | R3 | Z | -9.038 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | 13.087 | .5 |
| 83 | MP1A | Z | -22.668 | .5 |
| 84 | MP1A | Mx | -.007 | .5 |
| 85 | MP1A | X | 13.087 | 5.5 |
| 86 | MP1A | Z | -22.668 | 5.5 |
| 87 | MP1A | Mx | -.007 | 5.5 |
| 88 | MP1B | X | 11.985 | .5 |
| 89 | MP1B | Z | -20.759 | .5 |
| 90 | MP1B | Mx | .012 | .5 |
| 91 | MP1B | X | 11.985 | 5.5 |
| 92 | MP1B | Z | -20.759 | 5.5 |
| 93 | MP1B | Mx | .012 | 5.5 |
| 94 | MP1C | X | 13.087 | .5 |
| 95 | MP1C | Z | -22.668 | .5 |
| 96 | MP1C | Mx | -.007 | .5 |
| 97 | MP1C | X | 13.087 | 5.5 |
| 98 | MP1C | Z | -22.668 | 5.5 |
| 99 | MP1C | Mx | -.007 | 5.5 |
| 100 | MP5A | X | 13.087 | .5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 101 | MP5A | Z | -22.668 | .5 |
| 102 | MP5A | Mx | -.007 | .5 |
| 103 | MP5A | X | 13.087 | 5.5 |
| 104 | MP5A | Z | -22.668 | 5.5 |
| 105 | MP5A | Mx | -.007 | 5.5 |
| 106 | MP5B | X | 11.985 | .5 |
| 107 | MP5B | Z | -20.759 | .5 |
| 108 | MP5B | Mx | .012 | .5 |
| 109 | MP5B | X | 11.985 | 5.5 |
| 110 | MP5B | Z | -20.759 | 5.5 |
| 111 | MP5B | Mx | .012 | 5.5 |
| 112 | MP5C | X | 13.087 | .5 |
| 113 | MP5C | Z | -22.668 | .5 |
| 114 | MP5C | Mx | -.007 | .5 |
| 115 | MP5C | X | 13.087 | 5.5 |
| 116 | MP5C | Z | -22.668 | 5.5 |
| 117 | MP5C | Mx | -.007 | 5.5 |
| 118 | GPS | X | 1.029 | .25 |
| 119 | GPS | Z | -1.782 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | .936 | 8 |
| 122 | MP2A | Z | -1.621 | 8 |
| 123 | MP2A | Mx | .001 | 8 |
| 124 | MP2A | X | .936 | 9 |
| 125 | MP2A | Z | -1.621 | 9 |
| 126 | MP2A | Mx | .001 | 9 |
| 127 | MP2A | X | .936 | 8 |
| 128 | MP2A | Z | -1.621 | 8 |
| 129 | MP2A | Mx | 5.4e-5 | 8 |
| 130 | MP2A | X | .936 | 9 |
| 131 | MP2A | Z | -1.621 | 9 |
| 132 | MP2A | Mx | 5.4e-5 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 24.143 | 5.25 |
| 2 | MP2A | Z | -13.939 | 5.25 |
| 3 | MP2A | Mx | -.023 | 5.25 |
| 4 | MP2A | X | 24.143 | 9.5 |
| 5 | MP2A | Z | -13.939 | 9.5 |
| 6 | MP2A | Mx | -.023 | 9.5 |
| 7 | MP2B | X | 20.233 | 5.25 |
| 8 | MP2B | Z | -11.681 | 5.25 |
| 9 | MP2B | Mx | .012 | 5.25 |
| 10 | MP2B | X | 20.233 | 9.5 |
| 11 | MP2B | Z | -11.681 | 9.5 |
| 12 | MP2B | Mx | .012 | 9.5 |
| 13 | MP2C | X | 29.696 | 5.25 |
| 14 | MP2C | Z | -17.145 | 5.25 |
| 15 | MP2C | Mx | .023 | 5.25 |
| 16 | MP2C | X | 29.696 | 9.5 |
| 17 | MP2C | Z | -17.145 | 9.5 |
| 18 | MP2C | Mx | .023 | 9.5 |
| 19 | MP2A | X | 24.143 | 5.25 |
| 20 | MP2A | Z | -13.939 | 5.25 |
| 21 | MP2A | Mx | .001 | 5.25 |



Company : Colliers Engineering & Design
 Designer : ILR
 Job Number : Project No. 10208049
 Model Name : 5000385364-VZW_MT_LO_H

Aug 2, 2023
 4:47 PM
 Checked By: DX

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 22 | MP2A | X | 24.143 | 9.5 |
| 23 | MP2A | Z | -13.939 | 9.5 |
| 24 | MP2A | Mx | .001 | 9.5 |
| 25 | MP2B | X | 20.233 | 5.25 |
| 26 | MP2B | Z | -11.681 | 5.25 |
| 27 | MP2B | Mx | .012 | 5.25 |
| 28 | MP2B | X | 20.233 | 9.5 |
| 29 | MP2B | Z | -11.681 | 9.5 |
| 30 | MP2B | Mx | .012 | 9.5 |
| 31 | MP2C | X | 29.696 | 5.25 |
| 32 | MP2C | Z | -17.145 | 5.25 |
| 33 | MP2C | Mx | -.023 | 5.25 |
| 34 | MP2C | X | 29.696 | 9.5 |
| 35 | MP2C | Z | -17.145 | 9.5 |
| 36 | MP2C | Mx | -.023 | 9.5 |
| 37 | MP4A | X | 10.453 | 6.75 |
| 38 | MP4A | Z | -6.035 | 6.75 |
| 39 | MP4A | Mx | -.005 | 6.75 |
| 40 | MP4A | X | 10.453 | 8 |
| 41 | MP4A | Z | -6.035 | 8 |
| 42 | MP4A | Mx | -.005 | 8 |
| 43 | MP4B | X | 6.703 | 6.75 |
| 44 | MP4B | Z | -3.87 | 6.75 |
| 45 | MP4B | Mx | .004 | 6.75 |
| 46 | MP4B | X | 6.703 | 8 |
| 47 | MP4B | Z | -3.87 | 8 |
| 48 | MP4B | Mx | .004 | 8 |
| 49 | MP4C | X | 15.78 | 6.75 |
| 50 | MP4C | Z | -9.111 | 6.75 |
| 51 | MP4C | Mx | 0 | 6.75 |
| 52 | MP4C | X | 15.78 | 8 |
| 53 | MP4C | Z | -9.111 | 8 |
| 54 | MP4C | Mx | 0 | 8 |
| 55 | MP2A | X | 3.286 | 6 |
| 56 | MP2A | Z | -1.897 | 6 |
| 57 | MP2A | Mx | .00064 | 6 |
| 58 | MP2B | X | 3.248 | 6 |
| 59 | MP2B | Z | -1.875 | 6 |
| 60 | MP2B | Mx | -.002 | 6 |
| 61 | MP2C | X | 3.339 | 6 |
| 62 | MP2C | Z | -1.928 | 6 |
| 63 | MP2C | Mx | .001 | 6 |
| 64 | MP2A | X | 10.259 | 6 |
| 65 | MP2A | Z | -5.923 | 6 |
| 66 | MP2A | Mx | .005 | 6 |
| 67 | MP2B | X | 9.244 | 6 |
| 68 | MP2B | Z | -5.337 | 6 |
| 69 | MP2B | Mx | -.005 | 6 |
| 70 | MP2C | X | 13.306 | 6 |
| 71 | MP2C | Z | -7.682 | 6 |
| 72 | MP2C | Mx | 0 | 6 |
| 73 | R1 | X | 7.645 | 10.5 |
| 74 | R1 | Z | -4.414 | 10.5 |
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | 7.645 | 10.5 |
| 77 | R2 | Z | -4.414 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 79 | R3 | X | 7.645 | 10.5 |
| 80 | R3 | Z | -4.414 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | 21.395 | .5 |
| 83 | MP1A | Z | -12.353 | .5 |
| 84 | MP1A | Mx | -.011 | .5 |
| 85 | MP1A | X | 21.395 | 5.5 |
| 86 | MP1A | Z | -12.353 | 5.5 |
| 87 | MP1A | Mx | -.011 | 5.5 |
| 88 | MP1B | X | 21.395 | .5 |
| 89 | MP1B | Z | -12.353 | .5 |
| 90 | MP1B | Mx | .011 | .5 |
| 91 | MP1B | X | 21.395 | 5.5 |
| 92 | MP1B | Z | -12.353 | 5.5 |
| 93 | MP1B | Mx | .011 | 5.5 |
| 94 | MP1C | X | 23.304 | .5 |
| 95 | MP1C | Z | -13.454 | .5 |
| 96 | MP1C | Mx | 0 | .5 |
| 97 | MP1C | X | 23.304 | 5.5 |
| 98 | MP1C | Z | -13.454 | 5.5 |
| 99 | MP1C | Mx | 0 | 5.5 |
| 100 | MP5A | X | 21.395 | .5 |
| 101 | MP5A | Z | -12.353 | .5 |
| 102 | MP5A | Mx | -.011 | .5 |
| 103 | MP5A | X | 21.395 | 5.5 |
| 104 | MP5A | Z | -12.353 | 5.5 |
| 105 | MP5A | Mx | -.011 | 5.5 |
| 106 | MP5B | X | 21.395 | .5 |
| 107 | MP5B | Z | -12.353 | .5 |
| 108 | MP5B | Mx | .011 | .5 |
| 109 | MP5B | X | 21.395 | 5.5 |
| 110 | MP5B | Z | -12.353 | 5.5 |
| 111 | MP5B | Mx | .011 | 5.5 |
| 112 | MP5C | X | 23.304 | .5 |
| 113 | MP5C | Z | -13.454 | .5 |
| 114 | MP5C | Mx | 0 | .5 |
| 115 | MP5C | X | 23.304 | 5.5 |
| 116 | MP5C | Z | -13.454 | 5.5 |
| 117 | MP5C | Mx | 0 | 5.5 |
| 118 | GPS | X | 1.782 | .25 |
| 119 | GPS | Z | -1.029 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | 2.686 | 8 |
| 122 | MP2A | Z | -1.551 | 8 |
| 123 | MP2A | Mx | .003 | 8 |
| 124 | MP2A | X | 2.686 | 9 |
| 125 | MP2A | Z | -1.551 | 9 |
| 126 | MP2A | Mx | .003 | 9 |
| 127 | MP2A | X | 2.686 | 8 |
| 128 | MP2A | Z | -1.551 | 8 |
| 129 | MP2A | Mx | .002 | 8 |
| 130 | MP2A | X | 2.686 | 9 |
| 131 | MP2A | Z | -1.551 | 9 |
| 132 | MP2A | Mx | .002 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|--|--------------|-----------|--------------------|----------------|
|--|--------------|-----------|--------------------|----------------|



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 23.692 | 5.25 |
| 2 | MP2A | Z | 0 | 5.25 |
| 3 | MP2A | Mx | -.014 | 5.25 |
| 4 | MP2A | X | 23.692 | 9.5 |
| 5 | MP2A | Z | 0 | 9.5 |
| 6 | MP2A | Mx | -.014 | 9.5 |
| 7 | MP2B | X | 26.095 | 5.25 |
| 8 | MP2B | Z | 0 | 5.25 |
| 9 | MP2B | Mx | .003 | 5.25 |
| 10 | MP2B | X | 26.095 | 9.5 |
| 11 | MP2B | Z | 0 | 9.5 |
| 12 | MP2B | Mx | .003 | 9.5 |
| 13 | MP2C | X | 31.558 | 5.25 |
| 14 | MP2C | Z | 0 | 5.25 |
| 15 | MP2C | Mx | .026 | 5.25 |
| 16 | MP2C | X | 31.558 | 9.5 |
| 17 | MP2C | Z | 0 | 9.5 |
| 18 | MP2C | Mx | .026 | 9.5 |
| 19 | MP2A | X | 23.692 | 5.25 |
| 20 | MP2A | Z | 0 | 5.25 |
| 21 | MP2A | Mx | -.009 | 5.25 |
| 22 | MP2A | X | 23.692 | 9.5 |
| 23 | MP2A | Z | 0 | 9.5 |
| 24 | MP2A | Mx | -.009 | 9.5 |
| 25 | MP2B | X | 26.095 | 5.25 |
| 26 | MP2B | Z | 0 | 5.25 |
| 27 | MP2B | Mx | .02 | 5.25 |
| 28 | MP2B | X | 26.095 | 9.5 |
| 29 | MP2B | Z | 0 | 9.5 |
| 30 | MP2B | Mx | .02 | 9.5 |
| 31 | MP2C | X | 31.558 | 5.25 |
| 32 | MP2C | Z | 0 | 5.25 |
| 33 | MP2C | Mx | -.01 | 5.25 |
| 34 | MP2C | X | 31.558 | 9.5 |
| 35 | MP2C | Z | 0 | 9.5 |
| 36 | MP2C | Mx | -.01 | 9.5 |
| 37 | MP4A | X | 8.056 | 6.75 |
| 38 | MP4A | Z | 0 | 6.75 |
| 39 | MP4A | Mx | -.004 | 6.75 |
| 40 | MP4A | X | 8.056 | 8 |
| 41 | MP4A | Z | 0 | 8 |
| 42 | MP4A | Mx | -.004 | 8 |
| 43 | MP4B | X | 10.36 | 6.75 |
| 44 | MP4B | Z | 0 | 6.75 |
| 45 | MP4B | Mx | .004 | 6.75 |
| 46 | MP4B | X | 10.36 | 8 |
| 47 | MP4B | Z | 0 | 8 |
| 48 | MP4B | Mx | .004 | 8 |
| 49 | MP4C | X | 15.601 | 6.75 |
| 50 | MP4C | Z | 0 | 6.75 |
| 51 | MP4C | Mx | .004 | 6.75 |
| 52 | MP4C | X | 15.601 | 8 |
| 53 | MP4C | Z | 0 | 8 |
| 54 | MP4C | Mx | .004 | 8 |
| 55 | MP2A | X | 3.754 | 6 |
| 56 | MP2A | Z | 0 | 6 |
| 57 | MP2A | Mx | .002 | 6 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 58 | MP2B | X | 3.777 | 6 |
| 59 | MP2B | Z | 0 | 6 |
| 60 | MP2B | Mx | -.002 | 6 |
| 61 | MP2C | X | 3.829 | 6 |
| 62 | MP2C | Z | 0 | 6 |
| 63 | MP2C | Mx | .000148 | 6 |
| 64 | MP2A | X | 10.674 | 6 |
| 65 | MP2A | Z | 0 | 6 |
| 66 | MP2A | Mx | .005 | 6 |
| 67 | MP2B | X | 11.846 | 6 |
| 68 | MP2B | Z | 0 | 6 |
| 69 | MP2B | Mx | -.005 | 6 |
| 70 | MP2C | X | 14.192 | 6 |
| 71 | MP2C | Z | 0 | 6 |
| 72 | MP2C | Mx | -.004 | 6 |
| 73 | R1 | X | 10.436 | 10.5 |
| 74 | R1 | Z | 0 | 10.5 |
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | 10.436 | 10.5 |
| 77 | R2 | Z | 0 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | 10.436 | 10.5 |
| 80 | R3 | Z | 0 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | 23.971 | .5 |
| 83 | MP1A | Z | 0 | .5 |
| 84 | MP1A | Mx | -.012 | .5 |
| 85 | MP1A | X | 23.971 | 5.5 |
| 86 | MP1A | Z | 0 | 5.5 |
| 87 | MP1A | Mx | -.012 | 5.5 |
| 88 | MP1B | X | 26.174 | .5 |
| 89 | MP1B | Z | 0 | .5 |
| 90 | MP1B | Mx | .007 | .5 |
| 91 | MP1B | X | 26.174 | 5.5 |
| 92 | MP1B | Z | 0 | 5.5 |
| 93 | MP1B | Mx | .007 | 5.5 |
| 94 | MP1C | X | 26.174 | .5 |
| 95 | MP1C | Z | 0 | .5 |
| 96 | MP1C | Mx | .007 | .5 |
| 97 | MP1C | X | 26.174 | 5.5 |
| 98 | MP1C | Z | 0 | 5.5 |
| 99 | MP1C | Mx | .007 | 5.5 |
| 100 | MP5A | X | 23.971 | .5 |
| 101 | MP5A | Z | 0 | .5 |
| 102 | MP5A | Mx | -.012 | .5 |
| 103 | MP5A | X | 23.971 | 5.5 |
| 104 | MP5A | Z | 0 | 5.5 |
| 105 | MP5A | Mx | -.012 | 5.5 |
| 106 | MP5B | X | 26.174 | .5 |
| 107 | MP5B | Z | 0 | .5 |
| 108 | MP5B | Mx | .007 | .5 |
| 109 | MP5B | X | 26.174 | 5.5 |
| 110 | MP5B | Z | 0 | 5.5 |
| 111 | MP5B | Mx | .007 | 5.5 |
| 112 | MP5C | X | 26.174 | .5 |
| 113 | MP5C | Z | 0 | .5 |
| 114 | MP5C | Mx | .007 | .5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 115 | MP5C | X | 26.174 | 5.5 |
| 116 | MP5C | Z | 0 | 5.5 |
| 117 | MP5C | Mx | .007 | 5.5 |
| 118 | GPS | X | 2.058 | .25 |
| 119 | GPS | Z | 0 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | 4.105 | 8 |
| 122 | MP2A | Z | 0 | 8 |
| 123 | MP2A | Mx | .004 | 8 |
| 124 | MP2A | X | 4.105 | 9 |
| 125 | MP2A | Z | 0 | 9 |
| 126 | MP2A | Mx | .004 | 9 |
| 127 | MP2A | X | 4.105 | 8 |
| 128 | MP2A | Z | 0 | 8 |
| 129 | MP2A | Mx | .004 | 8 |
| 130 | MP2A | X | 4.105 | 9 |
| 131 | MP2A | Z | 0 | 9 |
| 132 | MP2A | Mx | .004 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 21.34 | 5.25 |
| 2 | MP2A | Z | 12.321 | 5.25 |
| 3 | MP2A | Mx | -.006 | 5.25 |
| 4 | MP2A | X | 21.34 | 9.5 |
| 5 | MP2A | Z | 12.321 | 9.5 |
| 6 | MP2A | Mx | -.006 | 9.5 |
| 7 | MP2B | X | 27.33 | 5.25 |
| 8 | MP2B | Z | 15.779 | 5.25 |
| 9 | MP2B | Mx | -.01 | 5.25 |
| 10 | MP2B | X | 27.33 | 9.5 |
| 11 | MP2B | Z | 15.779 | 9.5 |
| 12 | MP2B | Mx | -.01 | 9.5 |
| 13 | MP2C | X | 22.599 | 5.25 |
| 14 | MP2C | Z | 13.047 | 5.25 |
| 15 | MP2C | Mx | .02 | 5.25 |
| 16 | MP2C | X | 22.599 | 9.5 |
| 17 | MP2C | Z | 13.047 | 9.5 |
| 18 | MP2C | Mx | .02 | 9.5 |
| 19 | MP2A | X | 21.34 | 5.25 |
| 20 | MP2A | Z | 12.321 | 5.25 |
| 21 | MP2A | Mx | -.017 | 5.25 |
| 22 | MP2A | X | 21.34 | 9.5 |
| 23 | MP2A | Z | 12.321 | 9.5 |
| 24 | MP2A | Mx | -.017 | 9.5 |
| 25 | MP2B | X | 27.33 | 5.25 |
| 26 | MP2B | Z | 15.779 | 5.25 |
| 27 | MP2B | Mx | .026 | 5.25 |
| 28 | MP2B | X | 27.33 | 9.5 |
| 29 | MP2B | Z | 15.779 | 9.5 |
| 30 | MP2B | Mx | .026 | 9.5 |
| 31 | MP2C | X | 22.599 | 5.25 |
| 32 | MP2C | Z | 13.047 | 5.25 |
| 33 | MP2C | Mx | .003 | 5.25 |
| 34 | MP2C | X | 22.599 | 9.5 |
| 35 | MP2C | Z | 13.047 | 9.5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 36 | MP2C | Mx | .003 | 9.5 |
| 37 | MP4A | X | 7.765 | 6.75 |
| 38 | MP4A | Z | 4.483 | 6.75 |
| 39 | MP4A | Mx | -.004 | 6.75 |
| 40 | MP4A | X | 7.765 | 8 |
| 41 | MP4A | Z | 4.483 | 8 |
| 42 | MP4A | Mx | -.004 | 8 |
| 43 | MP4B | X | 13.511 | 6.75 |
| 44 | MP4B | Z | 7.801 | 6.75 |
| 45 | MP4B | Mx | .004 | 6.75 |
| 46 | MP4B | X | 13.511 | 8 |
| 47 | MP4B | Z | 7.801 | 8 |
| 48 | MP4B | Mx | .004 | 8 |
| 49 | MP4C | X | 8.972 | 6.75 |
| 50 | MP4C | Z | 5.18 | 6.75 |
| 51 | MP4C | Mx | .004 | 6.75 |
| 52 | MP4C | X | 8.972 | 8 |
| 53 | MP4C | Z | 5.18 | 8 |
| 54 | MP4C | Mx | .004 | 8 |
| 55 | MP2A | X | 3.259 | 6 |
| 56 | MP2A | Z | 1.881 | 6 |
| 57 | MP2A | Mx | .002 | 6 |
| 58 | MP2B | X | 3.316 | 6 |
| 59 | MP2B | Z | 1.915 | 6 |
| 60 | MP2B | Mx | -.002 | 6 |
| 61 | MP2C | X | 3.271 | 6 |
| 62 | MP2C | Z | 1.888 | 6 |
| 63 | MP2C | Mx | -.001 | 6 |
| 64 | MP2A | X | 10.259 | 6 |
| 65 | MP2A | Z | 5.923 | 6 |
| 66 | MP2A | Mx | .005 | 6 |
| 67 | MP2B | X | 12.29 | 6 |
| 68 | MP2B | Z | 7.096 | 6 |
| 69 | MP2B | Mx | -.004 | 6 |
| 70 | MP2C | X | 10.259 | 6 |
| 71 | MP2C | Z | 5.923 | 6 |
| 72 | MP2C | Mx | -.005 | 6 |
| 73 | R1 | X | 11.822 | 10.5 |
| 74 | R1 | Z | 6.825 | 10.5 |
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | 11.822 | 10.5 |
| 77 | R2 | Z | 6.825 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | 11.822 | 10.5 |
| 80 | R3 | Z | 6.825 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | 21.395 | .5 |
| 83 | MP1A | Z | 12.353 | .5 |
| 84 | MP1A | Mx | -.011 | .5 |
| 85 | MP1A | X | 21.395 | 5.5 |
| 86 | MP1A | Z | 12.353 | 5.5 |
| 87 | MP1A | Mx | -.011 | 5.5 |
| 88 | MP1B | X | 23.304 | .5 |
| 89 | MP1B | Z | 13.454 | .5 |
| 90 | MP1B | Mx | 0 | .5 |
| 91 | MP1B | X | 23.304 | 5.5 |
| 92 | MP1B | Z | 13.454 | 5.5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 93 | MP1B | Mx | 0 | 5.5 |
| 94 | MP1C | X | 21.395 | .5 |
| 95 | MP1C | Z | 12.353 | .5 |
| 96 | MP1C | Mx | .011 | .5 |
| 97 | MP1C | X | 21.395 | 5.5 |
| 98 | MP1C | Z | 12.353 | 5.5 |
| 99 | MP1C | Mx | .011 | 5.5 |
| 100 | MP5A | X | 21.395 | .5 |
| 101 | MP5A | Z | 12.353 | .5 |
| 102 | MP5A | Mx | -.011 | .5 |
| 103 | MP5A | X | 21.395 | 5.5 |
| 104 | MP5A | Z | 12.353 | 5.5 |
| 105 | MP5A | Mx | -.011 | 5.5 |
| 106 | MP5B | X | 23.304 | .5 |
| 107 | MP5B | Z | 13.454 | .5 |
| 108 | MP5B | Mx | 0 | .5 |
| 109 | MP5B | X | 23.304 | 5.5 |
| 110 | MP5B | Z | 13.454 | 5.5 |
| 111 | MP5B | Mx | 0 | 5.5 |
| 112 | MP5C | X | 21.395 | .5 |
| 113 | MP5C | Z | 12.353 | .5 |
| 114 | MP5C | Mx | .011 | .5 |
| 115 | MP5C | X | 21.395 | 5.5 |
| 116 | MP5C | Z | 12.353 | 5.5 |
| 117 | MP5C | Mx | .011 | 5.5 |
| 118 | GPS | X | 1.782 | .25 |
| 119 | GPS | Z | 1.029 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | 3.358 | 8 |
| 122 | MP2A | Z | 1.939 | 8 |
| 123 | MP2A | Mx | .003 | 8 |
| 124 | MP2A | X | 3.358 | 9 |
| 125 | MP2A | Z | 1.939 | 9 |
| 126 | MP2A | Mx | .003 | 9 |
| 127 | MP2A | X | 3.358 | 8 |
| 128 | MP2A | Z | 1.939 | 8 |
| 129 | MP2A | Mx | .004 | 8 |
| 130 | MP2A | X | 3.358 | 9 |
| 131 | MP2A | Z | 1.939 | 9 |
| 132 | MP2A | Mx | .004 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 14.888 | 5.25 |
| 2 | MP2A | Z | 25.786 | 5.25 |
| 3 | MP2A | Mx | .006 | 5.25 |
| 4 | MP2A | X | 14.888 | 9.5 |
| 5 | MP2A | Z | 25.786 | 9.5 |
| 6 | MP2A | Mx | .006 | 9.5 |
| 7 | MP2B | X | 17.145 | 5.25 |
| 8 | MP2B | Z | 29.696 | 5.25 |
| 9 | MP2B | Mx | -.023 | 5.25 |
| 10 | MP2B | X | 17.145 | 9.5 |
| 11 | MP2B | Z | 29.696 | 9.5 |
| 12 | MP2B | Mx | -.023 | 9.5 |
| 13 | MP2C | X | 11.681 | 5.25 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 14 | MP2C | Z | 20.233 | 5.25 |
| 15 | MP2C | Mx | .012 | 5.25 |
| 16 | MP2C | X | 11.681 | 9.5 |
| 17 | MP2C | Z | 20.233 | 9.5 |
| 18 | MP2C | Mx | .012 | 9.5 |
| 19 | MP2A | X | 14.888 | 5.25 |
| 20 | MP2A | Z | 25.786 | 5.25 |
| 21 | MP2A | Mx | -.025 | 5.25 |
| 22 | MP2A | X | 14.888 | 9.5 |
| 23 | MP2A | Z | 25.786 | 9.5 |
| 24 | MP2A | Mx | -.025 | 9.5 |
| 25 | MP2B | X | 17.145 | 5.25 |
| 26 | MP2B | Z | 29.696 | 5.25 |
| 27 | MP2B | Mx | .023 | 5.25 |
| 28 | MP2B | X | 17.145 | 9.5 |
| 29 | MP2B | Z | 29.696 | 9.5 |
| 30 | MP2B | Mx | .023 | 9.5 |
| 31 | MP2C | X | 11.681 | 5.25 |
| 32 | MP2C | Z | 20.233 | 5.25 |
| 33 | MP2C | Mx | .012 | 5.25 |
| 34 | MP2C | X | 11.681 | 9.5 |
| 35 | MP2C | Z | 20.233 | 9.5 |
| 36 | MP2C | Mx | .012 | 9.5 |
| 37 | MP4A | X | 6.945 | 6.75 |
| 38 | MP4A | Z | 12.03 | 6.75 |
| 39 | MP4A | Mx | -.004 | 6.75 |
| 40 | MP4A | X | 6.945 | 8 |
| 41 | MP4A | Z | 12.03 | 8 |
| 42 | MP4A | Mx | -.004 | 8 |
| 43 | MP4B | X | 9.111 | 6.75 |
| 44 | MP4B | Z | 15.78 | 6.75 |
| 45 | MP4B | Mx | 0 | 6.75 |
| 46 | MP4B | X | 9.111 | 8 |
| 47 | MP4B | Z | 15.78 | 8 |
| 48 | MP4B | Mx | 0 | 8 |
| 49 | MP4C | X | 3.87 | 6.75 |
| 50 | MP4C | Z | 6.703 | 6.75 |
| 51 | MP4C | Mx | .004 | 6.75 |
| 52 | MP4C | X | 3.87 | 8 |
| 53 | MP4C | Z | 6.703 | 8 |
| 54 | MP4C | Mx | .004 | 8 |
| 55 | MP2A | X | 1.906 | 6 |
| 56 | MP2A | Z | 3.301 | 6 |
| 57 | MP2A | Mx | .002 | 6 |
| 58 | MP2B | X | 1.928 | 6 |
| 59 | MP2B | Z | 3.339 | 6 |
| 60 | MP2B | Mx | -.001 | 6 |
| 61 | MP2C | X | 1.875 | 6 |
| 62 | MP2C | Z | 3.248 | 6 |
| 63 | MP2C | Mx | -.002 | 6 |
| 64 | MP2A | X | 7.096 | 6 |
| 65 | MP2A | Z | 12.29 | 6 |
| 66 | MP2A | Mx | .004 | 6 |
| 67 | MP2B | X | 7.682 | 6 |
| 68 | MP2B | Z | 13.306 | 6 |
| 69 | MP2B | Mx | 0 | 6 |
| 70 | MP2C | X | 5.337 | 6 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 71 | MP2C | Z | 9.244 | 6 |
| 72 | MP2C | Mx | -0.005 | 6 |
| 73 | R1 | X | 7.629 | 10.5 |
| 74 | R1 | Z | 13.214 | 10.5 |
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | 7.629 | 10.5 |
| 77 | R2 | Z | 13.214 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | 7.629 | 10.5 |
| 80 | R3 | Z | 13.214 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | 13.087 | .5 |
| 83 | MP1A | Z | 22.668 | .5 |
| 84 | MP1A | Mx | -0.007 | .5 |
| 85 | MP1A | X | 13.087 | 5.5 |
| 86 | MP1A | Z | 22.668 | 5.5 |
| 87 | MP1A | Mx | -0.007 | 5.5 |
| 88 | MP1B | X | 13.087 | .5 |
| 89 | MP1B | Z | 22.668 | .5 |
| 90 | MP1B | Mx | -0.007 | .5 |
| 91 | MP1B | X | 13.087 | 5.5 |
| 92 | MP1B | Z | 22.668 | 5.5 |
| 93 | MP1B | Mx | -0.007 | 5.5 |
| 94 | MP1C | X | 11.985 | .5 |
| 95 | MP1C | Z | 20.759 | .5 |
| 96 | MP1C | Mx | .012 | .5 |
| 97 | MP1C | X | 11.985 | 5.5 |
| 98 | MP1C | Z | 20.759 | 5.5 |
| 99 | MP1C | Mx | .012 | 5.5 |
| 100 | MP5A | X | 13.087 | .5 |
| 101 | MP5A | Z | 22.668 | .5 |
| 102 | MP5A | Mx | -0.007 | .5 |
| 103 | MP5A | X | 13.087 | 5.5 |
| 104 | MP5A | Z | 22.668 | 5.5 |
| 105 | MP5A | Mx | -0.007 | 5.5 |
| 106 | MP5B | X | 13.087 | .5 |
| 107 | MP5B | Z | 22.668 | .5 |
| 108 | MP5B | Mx | -0.007 | .5 |
| 109 | MP5B | X | 13.087 | 5.5 |
| 110 | MP5B | Z | 22.668 | 5.5 |
| 111 | MP5B | Mx | -0.007 | 5.5 |
| 112 | MP5C | X | 11.985 | .5 |
| 113 | MP5C | Z | 20.759 | .5 |
| 114 | MP5C | Mx | .012 | .5 |
| 115 | MP5C | X | 11.985 | 5.5 |
| 116 | MP5C | Z | 20.759 | 5.5 |
| 117 | MP5C | Mx | .012 | 5.5 |
| 118 | GPS | X | 1.029 | .25 |
| 119 | GPS | Z | 1.782 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | 1.324 | 8 |
| 122 | MP2A | Z | 2.293 | 8 |
| 123 | MP2A | Mx | .001 | 8 |
| 124 | MP2A | X | 1.324 | 9 |
| 125 | MP2A | Z | 2.293 | 9 |
| 126 | MP2A | Mx | .001 | 9 |
| 127 | MP2A | X | 1.324 | 8 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 128 | MP2A | Z | 2.293 | 8 |
| 129 | MP2A | Mx | .002 | 8 |
| 130 | MP2A | X | 1.324 | 9 |
| 131 | MP2A | Z | 2.293 | 9 |
| 132 | MP2A | Mx | .002 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 0 | 5.25 |
| 2 | MP2A | Z | 33.96 | 5.25 |
| 3 | MP2A | Mx | .019 | 5.25 |
| 4 | MP2A | X | 0 | 9.5 |
| 5 | MP2A | Z | 33.96 | 9.5 |
| 6 | MP2A | Mx | .019 | 9.5 |
| 7 | MP2B | X | 0 | 5.25 |
| 8 | MP2B | Z | 31.558 | 5.25 |
| 9 | MP2B | Mx | -.026 | 5.25 |
| 10 | MP2B | X | 0 | 9.5 |
| 11 | MP2B | Z | 31.558 | 9.5 |
| 12 | MP2B | Mx | -.026 | 9.5 |
| 13 | MP2C | X | 0 | 5.25 |
| 14 | MP2C | Z | 26.095 | 5.25 |
| 15 | MP2C | Mx | .003 | 5.25 |
| 16 | MP2C | X | 0 | 9.5 |
| 17 | MP2C | Z | 26.095 | 9.5 |
| 18 | MP2C | Mx | .003 | 9.5 |
| 19 | MP2A | X | 0 | 5.25 |
| 20 | MP2A | Z | 33.96 | 5.25 |
| 21 | MP2A | Mx | -.025 | 5.25 |
| 22 | MP2A | X | 0 | 9.5 |
| 23 | MP2A | Z | 33.96 | 9.5 |
| 24 | MP2A | Mx | -.025 | 9.5 |
| 25 | MP2B | X | 0 | 5.25 |
| 26 | MP2B | Z | 31.558 | 5.25 |
| 27 | MP2B | Mx | .01 | 5.25 |
| 28 | MP2B | X | 0 | 9.5 |
| 29 | MP2B | Z | 31.558 | 9.5 |
| 30 | MP2B | Mx | .01 | 9.5 |
| 31 | MP2C | X | 0 | 5.25 |
| 32 | MP2C | Z | 26.095 | 5.25 |
| 33 | MP2C | Mx | .02 | 5.25 |
| 34 | MP2C | X | 0 | 9.5 |
| 35 | MP2C | Z | 26.095 | 9.5 |
| 36 | MP2C | Mx | .02 | 9.5 |
| 37 | MP4A | X | 0 | 6.75 |
| 38 | MP4A | Z | 17.906 | 6.75 |
| 39 | MP4A | Mx | -.002 | 6.75 |
| 40 | MP4A | X | 0 | 8 |
| 41 | MP4A | Z | 17.906 | 8 |
| 42 | MP4A | Mx | -.002 | 8 |
| 43 | MP4B | X | 0 | 6.75 |
| 44 | MP4B | Z | 15.601 | 6.75 |
| 45 | MP4B | Mx | -.004 | 6.75 |
| 46 | MP4B | X | 0 | 8 |
| 47 | MP4B | Z | 15.601 | 8 |
| 48 | MP4B | Mx | -.004 | 8 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 49 | MP4C | X | 0 | 6.75 |
| 50 | MP4C | Z | 10.36 | 6.75 |
| 51 | MP4C | Mx | .004 | 6.75 |
| 52 | MP4C | X | 0 | 8 |
| 53 | MP4C | Z | 10.36 | 8 |
| 54 | MP4C | Mx | .004 | 8 |
| 55 | MP2A | X | 0 | 6 |
| 56 | MP2A | Z | 3.852 | 6 |
| 57 | MP2A | Mx | .002 | 6 |
| 58 | MP2B | X | 0 | 6 |
| 59 | MP2B | Z | 3.829 | 6 |
| 60 | MP2B | Mx | -.000148 | 6 |
| 61 | MP2C | X | 0 | 6 |
| 62 | MP2C | Z | 3.777 | 6 |
| 63 | MP2C | Mx | -.002 | 6 |
| 64 | MP2A | X | 0 | 6 |
| 65 | MP2A | Z | 15.364 | 6 |
| 66 | MP2A | Mx | 0 | 6 |
| 67 | MP2B | X | 0 | 6 |
| 68 | MP2B | Z | 14.192 | 6 |
| 69 | MP2B | Mx | .004 | 6 |
| 70 | MP2C | X | 0 | 6 |
| 71 | MP2C | Z | 11.846 | 6 |
| 72 | MP2C | Mx | -.005 | 6 |
| 73 | R1 | X | 0 | 10.5 |
| 74 | R1 | Z | 13.651 | 10.5 |
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | 0 | 10.5 |
| 77 | R2 | Z | 13.651 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | 0 | 10.5 |
| 80 | R3 | Z | 13.651 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | 0 | .5 |
| 83 | MP1A | Z | 26.909 | .5 |
| 84 | MP1A | Mx | 0 | .5 |
| 85 | MP1A | X | 0 | 5.5 |
| 86 | MP1A | Z | 26.909 | 5.5 |
| 87 | MP1A | Mx | 0 | 5.5 |
| 88 | MP1B | X | 0 | .5 |
| 89 | MP1B | Z | 24.705 | .5 |
| 90 | MP1B | Mx | -.011 | .5 |
| 91 | MP1B | X | 0 | 5.5 |
| 92 | MP1B | Z | 24.705 | 5.5 |
| 93 | MP1B | Mx | -.011 | 5.5 |
| 94 | MP1C | X | 0 | .5 |
| 95 | MP1C | Z | 24.705 | .5 |
| 96 | MP1C | Mx | .011 | .5 |
| 97 | MP1C | X | 0 | 5.5 |
| 98 | MP1C | Z | 24.705 | 5.5 |
| 99 | MP1C | Mx | .011 | 5.5 |
| 100 | MP5A | X | 0 | .5 |
| 101 | MP5A | Z | 26.909 | .5 |
| 102 | MP5A | Mx | 0 | .5 |
| 103 | MP5A | X | 0 | 5.5 |
| 104 | MP5A | Z | 26.909 | 5.5 |
| 105 | MP5A | Mx | 0 | 5.5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 106 | MP5B | X | 0 | .5 |
| 107 | MP5B | Z | 24.705 | .5 |
| 108 | MP5B | Mx | -.011 | .5 |
| 109 | MP5B | X | 0 | 5.5 |
| 110 | MP5B | Z | 24.705 | 5.5 |
| 111 | MP5B | Mx | -.011 | 5.5 |
| 112 | MP5C | X | 0 | .5 |
| 113 | MP5C | Z | 24.705 | .5 |
| 114 | MP5C | Mx | .011 | .5 |
| 115 | MP5C | X | 0 | 5.5 |
| 116 | MP5C | Z | 24.705 | 5.5 |
| 117 | MP5C | Mx | .011 | 5.5 |
| 118 | GPS | X | 0 | .25 |
| 119 | GPS | Z | 2.058 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | 0 | 8 |
| 122 | MP2A | Z | 1.644 | 8 |
| 123 | MP2A | Mx | -.000254 | 8 |
| 124 | MP2A | X | 0 | 9 |
| 125 | MP2A | Z | 1.644 | 9 |
| 126 | MP2A | Mx | -.000254 | 9 |
| 127 | MP2A | X | 0 | 8 |
| 128 | MP2A | Z | 1.644 | 8 |
| 129 | MP2A | Mx | .000825 | 8 |
| 130 | MP2A | X | 0 | 9 |
| 131 | MP2A | Z | 1.644 | 9 |
| 132 | MP2A | Mx | .000825 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -16.506 | 5.25 |
| 2 | MP2A | Z | 28.589 | 5.25 |
| 3 | MP2A | Mx | .026 | 5.25 |
| 4 | MP2A | X | -16.506 | 9.5 |
| 5 | MP2A | Z | 28.589 | 9.5 |
| 6 | MP2A | Mx | .026 | 9.5 |
| 7 | MP2B | X | -13.047 | 5.25 |
| 8 | MP2B | Z | 22.599 | 5.25 |
| 9 | MP2B | Mx | -.02 | 5.25 |
| 10 | MP2B | X | -13.047 | 9.5 |
| 11 | MP2B | Z | 22.599 | 9.5 |
| 12 | MP2B | Mx | -.02 | 9.5 |
| 13 | MP2C | X | -15.779 | 5.25 |
| 14 | MP2C | Z | 27.33 | 5.25 |
| 15 | MP2C | Mx | -.01 | 5.25 |
| 16 | MP2C | X | -15.779 | 9.5 |
| 17 | MP2C | Z | 27.33 | 9.5 |
| 18 | MP2C | Mx | -.01 | 9.5 |
| 19 | MP2A | X | -16.506 | 5.25 |
| 20 | MP2A | Z | 28.589 | 5.25 |
| 21 | MP2A | Mx | -.015 | 5.25 |
| 22 | MP2A | X | -16.506 | 9.5 |
| 23 | MP2A | Z | 28.589 | 9.5 |
| 24 | MP2A | Mx | -.015 | 9.5 |
| 25 | MP2B | X | -13.047 | 5.25 |
| 26 | MP2B | Z | 22.599 | 5.25 |



Company : Colliers Engineering & Design
 Designer : ILR
 Job Number : Project No. 10208049
 Model Name : 5000385364-VZW_MT_LO_H

Aug 2, 2023
 4:47 PM
 Checked By: DX

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 27 | MP2B | Mx | -.003 | 5.25 |
| 28 | MP2B | X | -13.047 | 9.5 |
| 29 | MP2B | Z | 22.599 | 9.5 |
| 30 | MP2B | Mx | -.003 | 9.5 |
| 31 | MP2C | X | -15.779 | 5.25 |
| 32 | MP2C | Z | 27.33 | 5.25 |
| 33 | MP2C | Mx | .026 | 5.25 |
| 34 | MP2C | X | -15.779 | 9.5 |
| 35 | MP2C | Z | 27.33 | 9.5 |
| 36 | MP2C | Mx | .026 | 9.5 |
| 37 | MP4A | X | -8.498 | 6.75 |
| 38 | MP4A | Z | 14.718 | 6.75 |
| 39 | MP4A | Mx | .003 | 6.75 |
| 40 | MP4A | X | -8.498 | 8 |
| 41 | MP4A | Z | 14.718 | 8 |
| 42 | MP4A | Mx | .003 | 8 |
| 43 | MP4B | X | -5.18 | 6.75 |
| 44 | MP4B | Z | 8.972 | 6.75 |
| 45 | MP4B | Mx | -.004 | 6.75 |
| 46 | MP4B | X | -5.18 | 8 |
| 47 | MP4B | Z | 8.972 | 8 |
| 48 | MP4B | Mx | -.004 | 8 |
| 49 | MP4C | X | -7.801 | 6.75 |
| 50 | MP4C | Z | 13.511 | 6.75 |
| 51 | MP4C | Mx | .004 | 6.75 |
| 52 | MP4C | X | -7.801 | 8 |
| 53 | MP4C | Z | 13.511 | 8 |
| 54 | MP4C | Mx | .004 | 8 |
| 55 | MP2A | X | -1.922 | 6 |
| 56 | MP2A | Z | 3.328 | 6 |
| 57 | MP2A | Mx | .000546 | 6 |
| 58 | MP2B | X | -1.888 | 6 |
| 59 | MP2B | Z | 3.271 | 6 |
| 60 | MP2B | Mx | .001 | 6 |
| 61 | MP2C | X | -1.915 | 6 |
| 62 | MP2C | Z | 3.316 | 6 |
| 63 | MP2C | Mx | -.002 | 6 |
| 64 | MP2A | X | -7.096 | 6 |
| 65 | MP2A | Z | 12.29 | 6 |
| 66 | MP2A | Mx | -.004 | 6 |
| 67 | MP2B | X | -5.923 | 6 |
| 68 | MP2B | Z | 10.259 | 6 |
| 69 | MP2B | Mx | .005 | 6 |
| 70 | MP2C | X | -7.096 | 6 |
| 71 | MP2C | Z | 12.29 | 6 |
| 72 | MP2C | Mx | -.004 | 6 |
| 73 | R1 | X | -5.218 | 10.5 |
| 74 | R1 | Z | 9.038 | 10.5 |
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | -5.218 | 10.5 |
| 77 | R2 | Z | 9.038 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | -5.218 | 10.5 |
| 80 | R3 | Z | 9.038 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | -13.087 | .5 |
| 83 | MP1A | Z | 22.668 | .5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 84 | MP1A | Mx | .007 | .5 |
| 85 | MP1A | X | -13.087 | 5.5 |
| 86 | MP1A | Z | 22.668 | 5.5 |
| 87 | MP1A | Mx | .007 | 5.5 |
| 88 | MP1B | X | -11.985 | .5 |
| 89 | MP1B | Z | 20.759 | .5 |
| 90 | MP1B | Mx | -.012 | .5 |
| 91 | MP1B | X | -11.985 | 5.5 |
| 92 | MP1B | Z | 20.759 | 5.5 |
| 93 | MP1B | Mx | -.012 | 5.5 |
| 94 | MP1C | X | -13.087 | .5 |
| 95 | MP1C | Z | 22.668 | .5 |
| 96 | MP1C | Mx | .007 | .5 |
| 97 | MP1C | X | -13.087 | 5.5 |
| 98 | MP1C | Z | 22.668 | 5.5 |
| 99 | MP1C | Mx | .007 | 5.5 |
| 100 | MP5A | X | -13.087 | .5 |
| 101 | MP5A | Z | 22.668 | .5 |
| 102 | MP5A | Mx | .007 | .5 |
| 103 | MP5A | X | -13.087 | 5.5 |
| 104 | MP5A | Z | 22.668 | 5.5 |
| 105 | MP5A | Mx | .007 | 5.5 |
| 106 | MP5B | X | -11.985 | .5 |
| 107 | MP5B | Z | 20.759 | .5 |
| 108 | MP5B | Mx | -.012 | .5 |
| 109 | MP5B | X | -11.985 | 5.5 |
| 110 | MP5B | Z | 20.759 | 5.5 |
| 111 | MP5B | Mx | -.012 | 5.5 |
| 112 | MP5C | X | -13.087 | .5 |
| 113 | MP5C | Z | 22.668 | .5 |
| 114 | MP5C | Mx | .007 | .5 |
| 115 | MP5C | X | -13.087 | 5.5 |
| 116 | MP5C | Z | 22.668 | 5.5 |
| 117 | MP5C | Mx | .007 | 5.5 |
| 118 | GPS | X | -1.029 | .25 |
| 119 | GPS | Z | 1.782 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | -.936 | 8 |
| 122 | MP2A | Z | 1.621 | 8 |
| 123 | MP2A | Mx | -.001 | 8 |
| 124 | MP2A | X | -.936 | 9 |
| 125 | MP2A | Z | 1.621 | 9 |
| 126 | MP2A | Mx | -.001 | 9 |
| 127 | MP2A | X | -.936 | 8 |
| 128 | MP2A | Z | 1.621 | 8 |
| 129 | MP2A | Mx | -5.4e-5 | 8 |
| 130 | MP2A | X | -.936 | 9 |
| 131 | MP2A | Z | 1.621 | 9 |
| 132 | MP2A | Mx | -5.4e-5 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -24.143 | 5.25 |
| 2 | MP2A | Z | 13.939 | 5.25 |
| 3 | MP2A | Mx | .023 | 5.25 |
| 4 | MP2A | X | -24.143 | 9.5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 5 | MP2A | Z | 13.939 | 9.5 |
| 6 | MP2A | Mx | .023 | 9.5 |
| 7 | MP2B | X | -20.233 | 5.25 |
| 8 | MP2B | Z | 11.681 | 5.25 |
| 9 | MP2B | Mx | -.012 | 5.25 |
| 10 | MP2B | X | -20.233 | 9.5 |
| 11 | MP2B | Z | 11.681 | 9.5 |
| 12 | MP2B | Mx | -.012 | 9.5 |
| 13 | MP2C | X | -29.696 | 5.25 |
| 14 | MP2C | Z | 17.145 | 5.25 |
| 15 | MP2C | Mx | -.023 | 5.25 |
| 16 | MP2C | X | -29.696 | 9.5 |
| 17 | MP2C | Z | 17.145 | 9.5 |
| 18 | MP2C | Mx | -.023 | 9.5 |
| 19 | MP2A | X | -24.143 | 5.25 |
| 20 | MP2A | Z | 13.939 | 5.25 |
| 21 | MP2A | Mx | -.001 | 5.25 |
| 22 | MP2A | X | -24.143 | 9.5 |
| 23 | MP2A | Z | 13.939 | 9.5 |
| 24 | MP2A | Mx | -.001 | 9.5 |
| 25 | MP2B | X | -20.233 | 5.25 |
| 26 | MP2B | Z | 11.681 | 5.25 |
| 27 | MP2B | Mx | -.012 | 5.25 |
| 28 | MP2B | X | -20.233 | 9.5 |
| 29 | MP2B | Z | 11.681 | 9.5 |
| 30 | MP2B | Mx | -.012 | 9.5 |
| 31 | MP2C | X | -29.696 | 5.25 |
| 32 | MP2C | Z | 17.145 | 5.25 |
| 33 | MP2C | Mx | .023 | 5.25 |
| 34 | MP2C | X | -29.696 | 9.5 |
| 35 | MP2C | Z | 17.145 | 9.5 |
| 36 | MP2C | Mx | .023 | 9.5 |
| 37 | MP4A | X | -10.453 | 6.75 |
| 38 | MP4A | Z | 6.035 | 6.75 |
| 39 | MP4A | Mx | .005 | 6.75 |
| 40 | MP4A | X | -10.453 | 8 |
| 41 | MP4A | Z | 6.035 | 8 |
| 42 | MP4A | Mx | .005 | 8 |
| 43 | MP4B | X | -6.703 | 6.75 |
| 44 | MP4B | Z | 3.87 | 6.75 |
| 45 | MP4B | Mx | -.004 | 6.75 |
| 46 | MP4B | X | -6.703 | 8 |
| 47 | MP4B | Z | 3.87 | 8 |
| 48 | MP4B | Mx | -.004 | 8 |
| 49 | MP4C | X | -15.78 | 6.75 |
| 50 | MP4C | Z | 9.111 | 6.75 |
| 51 | MP4C | Mx | 0 | 6.75 |
| 52 | MP4C | X | -15.78 | 8 |
| 53 | MP4C | Z | 9.111 | 8 |
| 54 | MP4C | Mx | 0 | 8 |
| 55 | MP2A | X | -3.286 | 6 |
| 56 | MP2A | Z | 1.897 | 6 |
| 57 | MP2A | Mx | -.00064 | 6 |
| 58 | MP2B | X | -3.248 | 6 |
| 59 | MP2B | Z | 1.875 | 6 |
| 60 | MP2B | Mx | .002 | 6 |
| 61 | MP2C | X | -3.339 | 6 |



Company : Colliers Engineering & Design
 Designer : ILR
 Job Number : Project No. 10208049
 Model Name : 5000385364-VZW_MT_LO_H

Aug 2, 2023
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 Checked By: DX

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 62 | MP2C | Z | 1.928 | 6 |
| 63 | MP2C | Mx | -.001 | 6 |
| 64 | MP2A | X | -10.259 | 6 |
| 65 | MP2A | Z | 5.923 | 6 |
| 66 | MP2A | Mx | -.005 | 6 |
| 67 | MP2B | X | -9.244 | 6 |
| 68 | MP2B | Z | 5.337 | 6 |
| 69 | MP2B | Mx | .005 | 6 |
| 70 | MP2C | X | -13.306 | 6 |
| 71 | MP2C | Z | 7.682 | 6 |
| 72 | MP2C | Mx | 0 | 6 |
| 73 | R1 | X | -7.645 | 10.5 |
| 74 | R1 | Z | 4.414 | 10.5 |
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | -7.645 | 10.5 |
| 77 | R2 | Z | 4.414 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | -7.645 | 10.5 |
| 80 | R3 | Z | 4.414 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | -21.395 | .5 |
| 83 | MP1A | Z | 12.353 | .5 |
| 84 | MP1A | Mx | .011 | .5 |
| 85 | MP1A | X | -21.395 | 5.5 |
| 86 | MP1A | Z | 12.353 | 5.5 |
| 87 | MP1A | Mx | .011 | 5.5 |
| 88 | MP1B | X | -21.395 | .5 |
| 89 | MP1B | Z | 12.353 | .5 |
| 90 | MP1B | Mx | -.011 | .5 |
| 91 | MP1B | X | -21.395 | 5.5 |
| 92 | MP1B | Z | 12.353 | 5.5 |
| 93 | MP1B | Mx | -.011 | 5.5 |
| 94 | MP1C | X | -23.304 | .5 |
| 95 | MP1C | Z | 13.454 | .5 |
| 96 | MP1C | Mx | 0 | .5 |
| 97 | MP1C | X | -23.304 | 5.5 |
| 98 | MP1C | Z | 13.454 | 5.5 |
| 99 | MP1C | Mx | 0 | 5.5 |
| 100 | MP5A | X | -21.395 | .5 |
| 101 | MP5A | Z | 12.353 | .5 |
| 102 | MP5A | Mx | .011 | .5 |
| 103 | MP5A | X | -21.395 | 5.5 |
| 104 | MP5A | Z | 12.353 | 5.5 |
| 105 | MP5A | Mx | .011 | 5.5 |
| 106 | MP5B | X | -21.395 | .5 |
| 107 | MP5B | Z | 12.353 | .5 |
| 108 | MP5B | Mx | -.011 | .5 |
| 109 | MP5B | X | -21.395 | 5.5 |
| 110 | MP5B | Z | 12.353 | 5.5 |
| 111 | MP5B | Mx | -.011 | 5.5 |
| 112 | MP5C | X | -23.304 | .5 |
| 113 | MP5C | Z | 13.454 | .5 |
| 114 | MP5C | Mx | 0 | .5 |
| 115 | MP5C | X | -23.304 | 5.5 |
| 116 | MP5C | Z | 13.454 | 5.5 |
| 117 | MP5C | Mx | 0 | 5.5 |
| 118 | GPS | X | -1.782 | .25 |



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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 119 | GPS | Z | 1.029 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | -2.686 | 8 |
| 122 | MP2A | Z | 1.551 | 8 |
| 123 | MP2A | Mx | -.003 | 8 |
| 124 | MP2A | X | -2.686 | 9 |
| 125 | MP2A | Z | 1.551 | 9 |
| 126 | MP2A | Mx | -.003 | 9 |
| 127 | MP2A | X | -2.686 | 8 |
| 128 | MP2A | Z | 1.551 | 8 |
| 129 | MP2A | Mx | -.002 | 8 |
| 130 | MP2A | X | -2.686 | 9 |
| 131 | MP2A | Z | 1.551 | 9 |
| 132 | MP2A | Mx | -.002 | 9 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -23.692 | 5.25 |
| 2 | MP2A | Z | 0 | 5.25 |
| 3 | MP2A | Mx | .014 | 5.25 |
| 4 | MP2A | X | -23.692 | 9.5 |
| 5 | MP2A | Z | 0 | 9.5 |
| 6 | MP2A | Mx | .014 | 9.5 |
| 7 | MP2B | X | -26.095 | 5.25 |
| 8 | MP2B | Z | 0 | 5.25 |
| 9 | MP2B | Mx | -.003 | 5.25 |
| 10 | MP2B | X | -26.095 | 9.5 |
| 11 | MP2B | Z | 0 | 9.5 |
| 12 | MP2B | Mx | -.003 | 9.5 |
| 13 | MP2C | X | -31.558 | 5.25 |
| 14 | MP2C | Z | 0 | 5.25 |
| 15 | MP2C | Mx | -.026 | 5.25 |
| 16 | MP2C | X | -31.558 | 9.5 |
| 17 | MP2C | Z | 0 | 9.5 |
| 18 | MP2C | Mx | -.026 | 9.5 |
| 19 | MP2A | X | -23.692 | 5.25 |
| 20 | MP2A | Z | 0 | 5.25 |
| 21 | MP2A | Mx | .009 | 5.25 |
| 22 | MP2A | X | -23.692 | 9.5 |
| 23 | MP2A | Z | 0 | 9.5 |
| 24 | MP2A | Mx | .009 | 9.5 |
| 25 | MP2B | X | -26.095 | 5.25 |
| 26 | MP2B | Z | 0 | 5.25 |
| 27 | MP2B | Mx | -.02 | 5.25 |
| 28 | MP2B | X | -26.095 | 9.5 |
| 29 | MP2B | Z | 0 | 9.5 |
| 30 | MP2B | Mx | -.02 | 9.5 |
| 31 | MP2C | X | -31.558 | 5.25 |
| 32 | MP2C | Z | 0 | 5.25 |
| 33 | MP2C | Mx | .01 | 5.25 |
| 34 | MP2C | X | -31.558 | 9.5 |
| 35 | MP2C | Z | 0 | 9.5 |
| 36 | MP2C | Mx | .01 | 9.5 |
| 37 | MP4A | X | -8.056 | 6.75 |
| 38 | MP4A | Z | 0 | 6.75 |
| 39 | MP4A | Mx | .004 | 6.75 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 40 | MP4A | X | -8.056 | 8 |
| 41 | MP4A | Z | 0 | 8 |
| 42 | MP4A | Mx | .004 | 8 |
| 43 | MP4B | X | -10.36 | 6.75 |
| 44 | MP4B | Z | 0 | 6.75 |
| 45 | MP4B | Mx | -.004 | 6.75 |
| 46 | MP4B | X | -10.36 | 8 |
| 47 | MP4B | Z | 0 | 8 |
| 48 | MP4B | Mx | -.004 | 8 |
| 49 | MP4C | X | -15.601 | 6.75 |
| 50 | MP4C | Z | 0 | 6.75 |
| 51 | MP4C | Mx | -.004 | 6.75 |
| 52 | MP4C | X | -15.601 | 8 |
| 53 | MP4C | Z | 0 | 8 |
| 54 | MP4C | Mx | -.004 | 8 |
| 55 | MP2A | X | -3.754 | 6 |
| 56 | MP2A | Z | 0 | 6 |
| 57 | MP2A | Mx | -.002 | 6 |
| 58 | MP2B | X | -3.777 | 6 |
| 59 | MP2B | Z | 0 | 6 |
| 60 | MP2B | Mx | .002 | 6 |
| 61 | MP2C | X | -3.829 | 6 |
| 62 | MP2C | Z | 0 | 6 |
| 63 | MP2C | Mx | -.000148 | 6 |
| 64 | MP2A | X | -10.674 | 6 |
| 65 | MP2A | Z | 0 | 6 |
| 66 | MP2A | Mx | -.005 | 6 |
| 67 | MP2B | X | -11.846 | 6 |
| 68 | MP2B | Z | 0 | 6 |
| 69 | MP2B | Mx | .005 | 6 |
| 70 | MP2C | X | -14.192 | 6 |
| 71 | MP2C | Z | 0 | 6 |
| 72 | MP2C | Mx | .004 | 6 |
| 73 | R1 | X | -10.436 | 10.5 |
| 74 | R1 | Z | 0 | 10.5 |
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | -10.436 | 10.5 |
| 77 | R2 | Z | 0 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | -10.436 | 10.5 |
| 80 | R3 | Z | 0 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | -23.971 | .5 |
| 83 | MP1A | Z | 0 | .5 |
| 84 | MP1A | Mx | .012 | .5 |
| 85 | MP1A | X | -23.971 | 5.5 |
| 86 | MP1A | Z | 0 | 5.5 |
| 87 | MP1A | Mx | .012 | 5.5 |
| 88 | MP1B | X | -26.174 | .5 |
| 89 | MP1B | Z | 0 | .5 |
| 90 | MP1B | Mx | -.007 | .5 |
| 91 | MP1B | X | -26.174 | 5.5 |
| 92 | MP1B | Z | 0 | 5.5 |
| 93 | MP1B | Mx | -.007 | 5.5 |
| 94 | MP1C | X | -26.174 | .5 |
| 95 | MP1C | Z | 0 | .5 |
| 96 | MP1C | Mx | -.007 | .5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.-%] |
|-----|--------------|-----------|--------------------|-----------------|
| 97 | MP1C | X | -26.174 | 5.5 |
| 98 | MP1C | Z | 0 | 5.5 |
| 99 | MP1C | Mx | -.007 | 5.5 |
| 100 | MP5A | X | -23.971 | .5 |
| 101 | MP5A | Z | 0 | .5 |
| 102 | MP5A | Mx | .012 | .5 |
| 103 | MP5A | X | -23.971 | 5.5 |
| 104 | MP5A | Z | 0 | 5.5 |
| 105 | MP5A | Mx | .012 | 5.5 |
| 106 | MP5B | X | -26.174 | .5 |
| 107 | MP5B | Z | 0 | .5 |
| 108 | MP5B | Mx | -.007 | .5 |
| 109 | MP5B | X | -26.174 | 5.5 |
| 110 | MP5B | Z | 0 | 5.5 |
| 111 | MP5B | Mx | -.007 | 5.5 |
| 112 | MP5C | X | -26.174 | .5 |
| 113 | MP5C | Z | 0 | .5 |
| 114 | MP5C | Mx | -.007 | .5 |
| 115 | MP5C | X | -26.174 | 5.5 |
| 116 | MP5C | Z | 0 | 5.5 |
| 117 | MP5C | Mx | -.007 | 5.5 |
| 118 | GPS | X | -2.058 | .25 |
| 119 | GPS | Z | 0 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | -4.105 | 8 |
| 122 | MP2A | Z | 0 | 8 |
| 123 | MP2A | Mx | -.004 | 8 |
| 124 | MP2A | X | -4.105 | 9 |
| 125 | MP2A | Z | 0 | 9 |
| 126 | MP2A | Mx | -.004 | 9 |
| 127 | MP2A | X | -4.105 | 8 |
| 128 | MP2A | Z | 0 | 8 |
| 129 | MP2A | Mx | -.004 | 8 |
| 130 | MP2A | X | -4.105 | 9 |
| 131 | MP2A | Z | 0 | 9 |
| 132 | MP2A | Mx | -.004 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.-%] |
|----|--------------|-----------|--------------------|-----------------|
| 1 | MP2A | X | -21.34 | 5.25 |
| 2 | MP2A | Z | -12.321 | 5.25 |
| 3 | MP2A | Mx | .006 | 5.25 |
| 4 | MP2A | X | -21.34 | 9.5 |
| 5 | MP2A | Z | -12.321 | 9.5 |
| 6 | MP2A | Mx | .006 | 9.5 |
| 7 | MP2B | X | -27.33 | 5.25 |
| 8 | MP2B | Z | -15.779 | 5.25 |
| 9 | MP2B | Mx | .01 | 5.25 |
| 10 | MP2B | X | -27.33 | 9.5 |
| 11 | MP2B | Z | -15.779 | 9.5 |
| 12 | MP2B | Mx | .01 | 9.5 |
| 13 | MP2C | X | -22.599 | 5.25 |
| 14 | MP2C | Z | -13.047 | 5.25 |
| 15 | MP2C | Mx | -.02 | 5.25 |
| 16 | MP2C | X | -22.599 | 9.5 |
| 17 | MP2C | Z | -13.047 | 9.5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 18 | MP2C | Mx | -.02 | 9.5 |
| 19 | MP2A | X | -21.34 | 5.25 |
| 20 | MP2A | Z | -12.321 | 5.25 |
| 21 | MP2A | Mx | .017 | 5.25 |
| 22 | MP2A | X | -21.34 | 9.5 |
| 23 | MP2A | Z | -12.321 | 9.5 |
| 24 | MP2A | Mx | .017 | 9.5 |
| 25 | MP2B | X | -27.33 | 5.25 |
| 26 | MP2B | Z | -15.779 | 5.25 |
| 27 | MP2B | Mx | -.026 | 5.25 |
| 28 | MP2B | X | -27.33 | 9.5 |
| 29 | MP2B | Z | -15.779 | 9.5 |
| 30 | MP2B | Mx | -.026 | 9.5 |
| 31 | MP2C | X | -22.599 | 5.25 |
| 32 | MP2C | Z | -13.047 | 5.25 |
| 33 | MP2C | Mx | -.003 | 5.25 |
| 34 | MP2C | X | -22.599 | 9.5 |
| 35 | MP2C | Z | -13.047 | 9.5 |
| 36 | MP2C | Mx | -.003 | 9.5 |
| 37 | MP4A | X | -7.765 | 6.75 |
| 38 | MP4A | Z | -4.483 | 6.75 |
| 39 | MP4A | Mx | .004 | 6.75 |
| 40 | MP4A | X | -7.765 | 8 |
| 41 | MP4A | Z | -4.483 | 8 |
| 42 | MP4A | Mx | .004 | 8 |
| 43 | MP4B | X | -13.511 | 6.75 |
| 44 | MP4B | Z | -7.801 | 6.75 |
| 45 | MP4B | Mx | -.004 | 6.75 |
| 46 | MP4B | X | -13.511 | 8 |
| 47 | MP4B | Z | -7.801 | 8 |
| 48 | MP4B | Mx | -.004 | 8 |
| 49 | MP4C | X | -8.972 | 6.75 |
| 50 | MP4C | Z | -5.18 | 6.75 |
| 51 | MP4C | Mx | -.004 | 6.75 |
| 52 | MP4C | X | -8.972 | 8 |
| 53 | MP4C | Z | -5.18 | 8 |
| 54 | MP4C | Mx | -.004 | 8 |
| 55 | MP2A | X | -3.259 | 6 |
| 56 | MP2A | Z | -1.881 | 6 |
| 57 | MP2A | Mx | -.002 | 6 |
| 58 | MP2B | X | -3.316 | 6 |
| 59 | MP2B | Z | -1.915 | 6 |
| 60 | MP2B | Mx | .002 | 6 |
| 61 | MP2C | X | -3.271 | 6 |
| 62 | MP2C | Z | -1.888 | 6 |
| 63 | MP2C | Mx | .001 | 6 |
| 64 | MP2A | X | -10.259 | 6 |
| 65 | MP2A | Z | -5.923 | 6 |
| 66 | MP2A | Mx | -.005 | 6 |
| 67 | MP2B | X | -12.29 | 6 |
| 68 | MP2B | Z | -7.096 | 6 |
| 69 | MP2B | Mx | .004 | 6 |
| 70 | MP2C | X | -10.259 | 6 |
| 71 | MP2C | Z | -5.923 | 6 |
| 72 | MP2C | Mx | .005 | 6 |
| 73 | R1 | X | -11.822 | 10.5 |
| 74 | R1 | Z | -6.825 | 10.5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | -11.822 | 10.5 |
| 77 | R2 | Z | -6.825 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | -11.822 | 10.5 |
| 80 | R3 | Z | -6.825 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | -21.395 | .5 |
| 83 | MP1A | Z | -12.353 | .5 |
| 84 | MP1A | Mx | .011 | .5 |
| 85 | MP1A | X | -21.395 | 5.5 |
| 86 | MP1A | Z | -12.353 | 5.5 |
| 87 | MP1A | Mx | .011 | 5.5 |
| 88 | MP1B | X | -23.304 | .5 |
| 89 | MP1B | Z | -13.454 | .5 |
| 90 | MP1B | Mx | 0 | .5 |
| 91 | MP1B | X | -23.304 | 5.5 |
| 92 | MP1B | Z | -13.454 | 5.5 |
| 93 | MP1B | Mx | 0 | 5.5 |
| 94 | MP1C | X | -21.395 | .5 |
| 95 | MP1C | Z | -12.353 | .5 |
| 96 | MP1C | Mx | -.011 | .5 |
| 97 | MP1C | X | -21.395 | 5.5 |
| 98 | MP1C | Z | -12.353 | 5.5 |
| 99 | MP1C | Mx | -.011 | 5.5 |
| 100 | MP5A | X | -21.395 | .5 |
| 101 | MP5A | Z | -12.353 | .5 |
| 102 | MP5A | Mx | .011 | .5 |
| 103 | MP5A | X | -21.395 | 5.5 |
| 104 | MP5A | Z | -12.353 | 5.5 |
| 105 | MP5A | Mx | .011 | 5.5 |
| 106 | MP5B | X | -23.304 | .5 |
| 107 | MP5B | Z | -13.454 | .5 |
| 108 | MP5B | Mx | 0 | .5 |
| 109 | MP5B | X | -23.304 | 5.5 |
| 110 | MP5B | Z | -13.454 | 5.5 |
| 111 | MP5B | Mx | 0 | 5.5 |
| 112 | MP5C | X | -21.395 | .5 |
| 113 | MP5C | Z | -12.353 | .5 |
| 114 | MP5C | Mx | -.011 | .5 |
| 115 | MP5C | X | -21.395 | 5.5 |
| 116 | MP5C | Z | -12.353 | 5.5 |
| 117 | MP5C | Mx | -.011 | 5.5 |
| 118 | GPS | X | -1.782 | .25 |
| 119 | GPS | Z | -1.029 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | -3.358 | 8 |
| 122 | MP2A | Z | -1.939 | 8 |
| 123 | MP2A | Mx | -.003 | 8 |
| 124 | MP2A | X | -3.358 | 9 |
| 125 | MP2A | Z | -1.939 | 9 |
| 126 | MP2A | Mx | -.003 | 9 |
| 127 | MP2A | X | -3.358 | 8 |
| 128 | MP2A | Z | -1.939 | 8 |
| 129 | MP2A | Mx | -.004 | 8 |
| 130 | MP2A | X | -3.358 | 9 |
| 131 | MP2A | Z | -1.939 | 9 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 132 | MP2A | Mx | -0.04 | 9 |

Member Point Loads (BLC 26 : Antenna Wi (300 Deg))

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -14.888 | 5.25 |
| 2 | MP2A | Z | -25.786 | 5.25 |
| 3 | MP2A | Mx | -0.06 | 5.25 |
| 4 | MP2A | X | -14.888 | 9.5 |
| 5 | MP2A | Z | -25.786 | 9.5 |
| 6 | MP2A | Mx | -0.06 | 9.5 |
| 7 | MP2B | X | -17.145 | 5.25 |
| 8 | MP2B | Z | -29.696 | 5.25 |
| 9 | MP2B | Mx | .023 | 5.25 |
| 10 | MP2B | X | -17.145 | 9.5 |
| 11 | MP2B | Z | -29.696 | 9.5 |
| 12 | MP2B | Mx | .023 | 9.5 |
| 13 | MP2C | X | -11.681 | 5.25 |
| 14 | MP2C | Z | -20.233 | 5.25 |
| 15 | MP2C | Mx | -0.12 | 5.25 |
| 16 | MP2C | X | -11.681 | 9.5 |
| 17 | MP2C | Z | -20.233 | 9.5 |
| 18 | MP2C | Mx | -0.12 | 9.5 |
| 19 | MP2A | X | -14.888 | 5.25 |
| 20 | MP2A | Z | -25.786 | 5.25 |
| 21 | MP2A | Mx | .025 | 5.25 |
| 22 | MP2A | X | -14.888 | 9.5 |
| 23 | MP2A | Z | -25.786 | 9.5 |
| 24 | MP2A | Mx | .025 | 9.5 |
| 25 | MP2B | X | -17.145 | 5.25 |
| 26 | MP2B | Z | -29.696 | 5.25 |
| 27 | MP2B | Mx | -0.23 | 5.25 |
| 28 | MP2B | X | -17.145 | 9.5 |
| 29 | MP2B | Z | -29.696 | 9.5 |
| 30 | MP2B | Mx | -0.23 | 9.5 |
| 31 | MP2C | X | -11.681 | 5.25 |
| 32 | MP2C | Z | -20.233 | 5.25 |
| 33 | MP2C | Mx | -0.12 | 5.25 |
| 34 | MP2C | X | -11.681 | 9.5 |
| 35 | MP2C | Z | -20.233 | 9.5 |
| 36 | MP2C | Mx | -0.12 | 9.5 |
| 37 | MP4A | X | -6.945 | 6.75 |
| 38 | MP4A | Z | -12.03 | 6.75 |
| 39 | MP4A | Mx | .004 | 6.75 |
| 40 | MP4A | X | -6.945 | 8 |
| 41 | MP4A | Z | -12.03 | 8 |
| 42 | MP4A | Mx | .004 | 8 |
| 43 | MP4B | X | -9.111 | 6.75 |
| 44 | MP4B | Z | -15.78 | 6.75 |
| 45 | MP4B | Mx | 0 | 6.75 |
| 46 | MP4B | X | -9.111 | 8 |
| 47 | MP4B | Z | -15.78 | 8 |
| 48 | MP4B | Mx | 0 | 8 |
| 49 | MP4C | X | -3.87 | 6.75 |
| 50 | MP4C | Z | -6.703 | 6.75 |
| 51 | MP4C | Mx | -0.04 | 6.75 |
| 52 | MP4C | X | -3.87 | 8 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 53 | MP4C | Z | -6.703 | 8 |
| 54 | MP4C | Mx | -.004 | 8 |
| 55 | MP2A | X | -1.906 | 6 |
| 56 | MP2A | Z | -3.301 | 6 |
| 57 | MP2A | Mx | -.002 | 6 |
| 58 | MP2B | X | -1.928 | 6 |
| 59 | MP2B | Z | -3.339 | 6 |
| 60 | MP2B | Mx | .001 | 6 |
| 61 | MP2C | X | -1.875 | 6 |
| 62 | MP2C | Z | -3.248 | 6 |
| 63 | MP2C | Mx | .002 | 6 |
| 64 | MP2A | X | -7.096 | 6 |
| 65 | MP2A | Z | -12.29 | 6 |
| 66 | MP2A | Mx | -.004 | 6 |
| 67 | MP2B | X | -7.682 | 6 |
| 68 | MP2B | Z | -13.306 | 6 |
| 69 | MP2B | Mx | 0 | 6 |
| 70 | MP2C | X | -5.337 | 6 |
| 71 | MP2C | Z | -9.244 | 6 |
| 72 | MP2C | Mx | .005 | 6 |
| 73 | R1 | X | -7.629 | 10.5 |
| 74 | R1 | Z | -13.214 | 10.5 |
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | -7.629 | 10.5 |
| 77 | R2 | Z | -13.214 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | -7.629 | 10.5 |
| 80 | R3 | Z | -13.214 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | -13.087 | .5 |
| 83 | MP1A | Z | -22.668 | .5 |
| 84 | MP1A | Mx | .007 | .5 |
| 85 | MP1A | X | -13.087 | 5.5 |
| 86 | MP1A | Z | -22.668 | 5.5 |
| 87 | MP1A | Mx | .007 | 5.5 |
| 88 | MP1B | X | -13.087 | .5 |
| 89 | MP1B | Z | -22.668 | .5 |
| 90 | MP1B | Mx | .007 | .5 |
| 91 | MP1B | X | -13.087 | 5.5 |
| 92 | MP1B | Z | -22.668 | 5.5 |
| 93 | MP1B | Mx | .007 | 5.5 |
| 94 | MP1C | X | -11.985 | .5 |
| 95 | MP1C | Z | -20.759 | .5 |
| 96 | MP1C | Mx | -.012 | .5 |
| 97 | MP1C | X | -11.985 | 5.5 |
| 98 | MP1C | Z | -20.759 | 5.5 |
| 99 | MP1C | Mx | -.012 | 5.5 |
| 100 | MP5A | X | -13.087 | .5 |
| 101 | MP5A | Z | -22.668 | .5 |
| 102 | MP5A | Mx | .007 | .5 |
| 103 | MP5A | X | -13.087 | 5.5 |
| 104 | MP5A | Z | -22.668 | 5.5 |
| 105 | MP5A | Mx | .007 | 5.5 |
| 106 | MP5B | X | -13.087 | .5 |
| 107 | MP5B | Z | -22.668 | .5 |
| 108 | MP5B | Mx | .007 | .5 |
| 109 | MP5B | X | -13.087 | 5.5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 110 | MP5B | Z | -22.668 | 5.5 |
| 111 | MP5B | Mx | .007 | 5.5 |
| 112 | MP5C | X | -11.985 | .5 |
| 113 | MP5C | Z | -20.759 | .5 |
| 114 | MP5C | Mx | -.012 | .5 |
| 115 | MP5C | X | -11.985 | 5.5 |
| 116 | MP5C | Z | -20.759 | 5.5 |
| 117 | MP5C | Mx | -.012 | 5.5 |
| 118 | GPS | X | -1.029 | .25 |
| 119 | GPS | Z | -1.782 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | -1.324 | 8 |
| 122 | MP2A | Z | -2.293 | 8 |
| 123 | MP2A | Mx | -.001 | 8 |
| 124 | MP2A | X | -1.324 | 9 |
| 125 | MP2A | Z | -2.293 | 9 |
| 126 | MP2A | Mx | -.001 | 9 |
| 127 | MP2A | X | -1.324 | 8 |
| 128 | MP2A | Z | -2.293 | 8 |
| 129 | MP2A | Mx | -.002 | 8 |
| 130 | MP2A | X | -1.324 | 9 |
| 131 | MP2A | Z | -2.293 | 9 |
| 132 | MP2A | Mx | -.002 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 0 | 5.25 |
| 2 | MP2A | Z | -11.182 | 5.25 |
| 3 | MP2A | Mx | -.006 | 5.25 |
| 4 | MP2A | X | 0 | 9.5 |
| 5 | MP2A | Z | -11.182 | 9.5 |
| 6 | MP2A | Mx | -.006 | 9.5 |
| 7 | MP2B | X | 0 | 5.25 |
| 8 | MP2B | Z | -10.329 | 5.25 |
| 9 | MP2B | Mx | .009 | 5.25 |
| 10 | MP2B | X | 0 | 9.5 |
| 11 | MP2B | Z | -10.329 | 9.5 |
| 12 | MP2B | Mx | .009 | 9.5 |
| 13 | MP2C | X | 0 | 5.25 |
| 14 | MP2C | Z | -8.39 | 5.25 |
| 15 | MP2C | Mx | -.000836 | 5.25 |
| 16 | MP2C | X | 0 | 9.5 |
| 17 | MP2C | Z | -8.39 | 9.5 |
| 18 | MP2C | Mx | -.000836 | 9.5 |
| 19 | MP2A | X | 0 | 5.25 |
| 20 | MP2A | Z | -11.182 | 5.25 |
| 21 | MP2A | Mx | .008 | 5.25 |
| 22 | MP2A | X | 0 | 9.5 |
| 23 | MP2A | Z | -11.182 | 9.5 |
| 24 | MP2A | Mx | .008 | 9.5 |
| 25 | MP2B | X | 0 | 5.25 |
| 26 | MP2B | Z | -10.329 | 5.25 |
| 27 | MP2B | Mx | -.003 | 5.25 |
| 28 | MP2B | X | 0 | 9.5 |
| 29 | MP2B | Z | -10.329 | 9.5 |
| 30 | MP2B | Mx | -.003 | 9.5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 31 | MP2C | X | 0 | 5.25 |
| 32 | MP2C | Z | -8.39 | 5.25 |
| 33 | MP2C | Mx | -.006 | 5.25 |
| 34 | MP2C | X | 0 | 9.5 |
| 35 | MP2C | Z | -8.39 | 9.5 |
| 36 | MP2C | Mx | -.006 | 9.5 |
| 37 | MP4A | X | 0 | 6.75 |
| 38 | MP4A | Z | -4.766 | 6.75 |
| 39 | MP4A | Mx | .000414 | 6.75 |
| 40 | MP4A | X | 0 | 8 |
| 41 | MP4A | Z | -4.766 | 8 |
| 42 | MP4A | Mx | .000414 | 8 |
| 43 | MP4B | X | 0 | 6.75 |
| 44 | MP4B | Z | -4.065 | 6.75 |
| 45 | MP4B | Mx | .001 | 6.75 |
| 46 | MP4B | X | 0 | 8 |
| 47 | MP4B | Z | -4.065 | 8 |
| 48 | MP4B | Mx | .001 | 8 |
| 49 | MP4C | X | 0 | 6.75 |
| 50 | MP4C | Z | -2.471 | 6.75 |
| 51 | MP4C | Mx | -.001 | 6.75 |
| 52 | MP4C | X | 0 | 8 |
| 53 | MP4C | Z | -2.471 | 8 |
| 54 | MP4C | Mx | -.001 | 8 |
| 55 | MP2A | X | 0 | 6 |
| 56 | MP2A | Z | -1.106 | 6 |
| 57 | MP2A | Mx | -.000459 | 6 |
| 58 | MP2B | X | 0 | 6 |
| 59 | MP2B | Z | -1.065 | 6 |
| 60 | MP2B | Mx | 4.1e-5 | 6 |
| 61 | MP2C | X | 0 | 6 |
| 62 | MP2C | Z | -.973 | 6 |
| 63 | MP2C | Mx | .000583 | 6 |
| 64 | MP2A | X | 0 | 6 |
| 65 | MP2A | Z | -3.853 | 6 |
| 66 | MP2A | Mx | 0 | 6 |
| 67 | MP2B | X | 0 | 6 |
| 68 | MP2B | Z | -3.536 | 6 |
| 69 | MP2B | Mx | -.000884 | 6 |
| 70 | MP2C | X | 0 | 6 |
| 71 | MP2C | Z | -2.902 | 6 |
| 72 | MP2C | Mx | .001 | 6 |
| 73 | R1 | X | 0 | 10.5 |
| 74 | R1 | Z | -3.396 | 10.5 |
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | 0 | 10.5 |
| 77 | R2 | Z | -3.396 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | 0 | 10.5 |
| 80 | R3 | Z | -3.396 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | 0 | .5 |
| 83 | MP1A | Z | -8.744 | .5 |
| 84 | MP1A | Mx | 0 | .5 |
| 85 | MP1A | X | 0 | 5.5 |
| 86 | MP1A | Z | -8.744 | 5.5 |
| 87 | MP1A | Mx | 0 | 5.5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 88 | MP1B | X | 0 | .5 |
| 89 | MP1B | Z | -7.914 | .5 |
| 90 | MP1B | Mx | .003 | .5 |
| 91 | MP1B | X | 0 | 5.5 |
| 92 | MP1B | Z | -7.914 | 5.5 |
| 93 | MP1B | Mx | .003 | 5.5 |
| 94 | MP1C | X | 0 | .5 |
| 95 | MP1C | Z | -7.914 | .5 |
| 96 | MP1C | Mx | -.003 | .5 |
| 97 | MP1C | X | 0 | 5.5 |
| 98 | MP1C | Z | -7.914 | 5.5 |
| 99 | MP1C | Mx | -.003 | 5.5 |
| 100 | MP5A | X | 0 | .5 |
| 101 | MP5A | Z | -8.744 | .5 |
| 102 | MP5A | Mx | 0 | .5 |
| 103 | MP5A | X | 0 | 5.5 |
| 104 | MP5A | Z | -8.744 | 5.5 |
| 105 | MP5A | Mx | 0 | 5.5 |
| 106 | MP5B | X | 0 | .5 |
| 107 | MP5B | Z | -7.914 | .5 |
| 108 | MP5B | Mx | .003 | .5 |
| 109 | MP5B | X | 0 | 5.5 |
| 110 | MP5B | Z | -7.914 | 5.5 |
| 111 | MP5B | Mx | .003 | 5.5 |
| 112 | MP5C | X | 0 | .5 |
| 113 | MP5C | Z | -7.914 | .5 |
| 114 | MP5C | Mx | -.003 | .5 |
| 115 | MP5C | X | 0 | 5.5 |
| 116 | MP5C | Z | -7.914 | 5.5 |
| 117 | MP5C | Mx | -.003 | 5.5 |
| 118 | GPS | X | 0 | .25 |
| 119 | GPS | Z | -.331 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | 0 | 8 |
| 122 | MP2A | Z | -1.186 | 8 |
| 123 | MP2A | Mx | .000183 | 8 |
| 124 | MP2A | X | 0 | 9 |
| 125 | MP2A | Z | -1.186 | 9 |
| 126 | MP2A | Mx | .000183 | 9 |
| 127 | MP2A | X | 0 | 8 |
| 128 | MP2A | Z | -1.186 | 8 |
| 129 | MP2A | Mx | -.000595 | 8 |
| 130 | MP2A | X | 0 | 9 |
| 131 | MP2A | Z | -1.186 | 9 |
| 132 | MP2A | Mx | -.000595 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 5.423 | 5.25 |
| 2 | MP2A | Z | -9.392 | 5.25 |
| 3 | MP2A | Mx | -.009 | 5.25 |
| 4 | MP2A | X | 5.423 | 9.5 |
| 5 | MP2A | Z | -9.392 | 9.5 |
| 6 | MP2A | Mx | -.009 | 9.5 |
| 7 | MP2B | X | 4.195 | 5.25 |
| 8 | MP2B | Z | -7.266 | 5.25 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 9 | MP2B | Mx | .006 | 5.25 |
| 10 | MP2B | X | 4.195 | 9.5 |
| 11 | MP2B | Z | -7.266 | 9.5 |
| 12 | MP2B | Mx | .006 | 9.5 |
| 13 | MP2C | X | 5.165 | 5.25 |
| 14 | MP2C | Z | -8.945 | 5.25 |
| 15 | MP2C | Mx | .003 | 5.25 |
| 16 | MP2C | X | 5.165 | 9.5 |
| 17 | MP2C | Z | -8.945 | 9.5 |
| 18 | MP2C | Mx | .003 | 9.5 |
| 19 | MP2A | X | 5.423 | 5.25 |
| 20 | MP2A | Z | -9.392 | 5.25 |
| 21 | MP2A | Mx | .005 | 5.25 |
| 22 | MP2A | X | 5.423 | 9.5 |
| 23 | MP2A | Z | -9.392 | 9.5 |
| 24 | MP2A | Mx | .005 | 9.5 |
| 25 | MP2B | X | 4.195 | 5.25 |
| 26 | MP2B | Z | -7.266 | 5.25 |
| 27 | MP2B | Mx | .000836 | 5.25 |
| 28 | MP2B | X | 4.195 | 9.5 |
| 29 | MP2B | Z | -7.266 | 9.5 |
| 30 | MP2B | Mx | .000836 | 9.5 |
| 31 | MP2C | X | 5.165 | 5.25 |
| 32 | MP2C | Z | -8.945 | 5.25 |
| 33 | MP2C | Mx | -.009 | 5.25 |
| 34 | MP2C | X | 5.165 | 9.5 |
| 35 | MP2C | Z | -8.945 | 9.5 |
| 36 | MP2C | Mx | -.009 | 9.5 |
| 37 | MP4A | X | 2.244 | 6.75 |
| 38 | MP4A | Z | -3.888 | 6.75 |
| 39 | MP4A | Mx | -.000767 | 6.75 |
| 40 | MP4A | X | 2.244 | 8 |
| 41 | MP4A | Z | -3.888 | 8 |
| 42 | MP4A | Mx | -.000767 | 8 |
| 43 | MP4B | X | 1.236 | 6.75 |
| 44 | MP4B | Z | -2.14 | 6.75 |
| 45 | MP4B | Mx | .001 | 6.75 |
| 46 | MP4B | X | 1.236 | 8 |
| 47 | MP4B | Z | -2.14 | 8 |
| 48 | MP4B | Mx | .001 | 8 |
| 49 | MP4C | X | 2.032 | 6.75 |
| 50 | MP4C | Z | -3.52 | 6.75 |
| 51 | MP4C | Mx | -.001 | 6.75 |
| 52 | MP4C | X | 2.032 | 8 |
| 53 | MP4C | Z | -3.52 | 8 |
| 54 | MP4C | Mx | -.001 | 8 |
| 55 | MP2A | X | .545 | 6 |
| 56 | MP2A | Z | -.944 | 6 |
| 57 | MP2A | Mx | -.000155 | 6 |
| 58 | MP2B | X | .486 | 6 |
| 59 | MP2B | Z | -.843 | 6 |
| 60 | MP2B | Mx | -.000259 | 6 |
| 61 | MP2C | X | .533 | 6 |
| 62 | MP2C | Z | -.923 | 6 |
| 63 | MP2C | Mx | .000574 | 6 |
| 64 | MP2A | X | 1.768 | 6 |
| 65 | MP2A | Z | -3.062 | 6 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 66 | MP2A | Mx | .000884 | 6 |
| 67 | MP2B | X | 1.451 | 6 |
| 68 | MP2B | Z | -2.513 | 6 |
| 69 | MP2B | Mx | -.001 | 6 |
| 70 | MP2C | X | 1.768 | 6 |
| 71 | MP2C | Z | -3.062 | 6 |
| 72 | MP2C | Mx | .000884 | 6 |
| 73 | R1 | X | 1.266 | 10.5 |
| 74 | R1 | Z | -2.192 | 10.5 |
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | 1.266 | 10.5 |
| 77 | R2 | Z | -2.192 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | 1.266 | 10.5 |
| 80 | R3 | Z | -2.192 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | 4.234 | .5 |
| 83 | MP1A | Z | -7.333 | .5 |
| 84 | MP1A | Mx | -.002 | .5 |
| 85 | MP1A | X | 4.234 | 5.5 |
| 86 | MP1A | Z | -7.333 | 5.5 |
| 87 | MP1A | Mx | -.002 | 5.5 |
| 88 | MP1B | X | 3.819 | .5 |
| 89 | MP1B | Z | -6.615 | .5 |
| 90 | MP1B | Mx | .004 | .5 |
| 91 | MP1B | X | 3.819 | 5.5 |
| 92 | MP1B | Z | -6.615 | 5.5 |
| 93 | MP1B | Mx | .004 | 5.5 |
| 94 | MP1C | X | 4.234 | .5 |
| 95 | MP1C | Z | -7.333 | .5 |
| 96 | MP1C | Mx | -.002 | .5 |
| 97 | MP1C | X | 4.234 | 5.5 |
| 98 | MP1C | Z | -7.333 | 5.5 |
| 99 | MP1C | Mx | -.002 | 5.5 |
| 100 | MP5A | X | 4.234 | .5 |
| 101 | MP5A | Z | -7.333 | .5 |
| 102 | MP5A | Mx | -.002 | .5 |
| 103 | MP5A | X | 4.234 | 5.5 |
| 104 | MP5A | Z | -7.333 | 5.5 |
| 105 | MP5A | Mx | -.002 | 5.5 |
| 106 | MP5B | X | 3.819 | .5 |
| 107 | MP5B | Z | -6.615 | .5 |
| 108 | MP5B | Mx | .004 | .5 |
| 109 | MP5B | X | 3.819 | 5.5 |
| 110 | MP5B | Z | -6.615 | 5.5 |
| 111 | MP5B | Mx | .004 | 5.5 |
| 112 | MP5C | X | 4.234 | .5 |
| 113 | MP5C | Z | -7.333 | .5 |
| 114 | MP5C | Mx | -.002 | .5 |
| 115 | MP5C | X | 4.234 | 5.5 |
| 116 | MP5C | Z | -7.333 | 5.5 |
| 117 | MP5C | Mx | -.002 | 5.5 |
| 118 | GPS | X | .2 | .25 |
| 119 | GPS | Z | -.347 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | .593 | 8 |
| 122 | MP2A | Z | -1.027 | 8 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 123 | MP2A | Mx | .000777 | 8 |
| 124 | MP2A | X | .593 | 9 |
| 125 | MP2A | Z | -1.027 | 9 |
| 126 | MP2A | Mx | .000777 | 9 |
| 127 | MP2A | X | .593 | 8 |
| 128 | MP2A | Z | -1.027 | 8 |
| 129 | MP2A | Mx | 3.4e-5 | 8 |
| 130 | MP2A | X | .593 | 9 |
| 131 | MP2A | Z | -1.027 | 9 |
| 132 | MP2A | Mx | 3.4e-5 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 7.814 | 5.25 |
| 2 | MP2A | Z | -4.512 | 5.25 |
| 3 | MP2A | Mx | -.007 | 5.25 |
| 4 | MP2A | X | 7.814 | 9.5 |
| 5 | MP2A | Z | -4.512 | 9.5 |
| 6 | MP2A | Mx | -.007 | 9.5 |
| 7 | MP2B | X | 6.427 | 5.25 |
| 8 | MP2B | Z | -3.71 | 5.25 |
| 9 | MP2B | Mx | .004 | 5.25 |
| 10 | MP2B | X | 6.427 | 9.5 |
| 11 | MP2B | Z | -3.71 | 9.5 |
| 12 | MP2B | Mx | .004 | 9.5 |
| 13 | MP2C | X | 9.785 | 5.25 |
| 14 | MP2C | Z | -5.649 | 5.25 |
| 15 | MP2C | Mx | .008 | 5.25 |
| 16 | MP2C | X | 9.785 | 9.5 |
| 17 | MP2C | Z | -5.649 | 9.5 |
| 18 | MP2C | Mx | .008 | 9.5 |
| 19 | MP2A | X | 7.814 | 5.25 |
| 20 | MP2A | Z | -4.512 | 5.25 |
| 21 | MP2A | Mx | .000411 | 5.25 |
| 22 | MP2A | X | 7.814 | 9.5 |
| 23 | MP2A | Z | -4.512 | 9.5 |
| 24 | MP2A | Mx | .000411 | 9.5 |
| 25 | MP2B | X | 6.427 | 5.25 |
| 26 | MP2B | Z | -3.71 | 5.25 |
| 27 | MP2B | Mx | .004 | 5.25 |
| 28 | MP2B | X | 6.427 | 9.5 |
| 29 | MP2B | Z | -3.71 | 9.5 |
| 30 | MP2B | Mx | .004 | 9.5 |
| 31 | MP2C | X | 9.785 | 5.25 |
| 32 | MP2C | Z | -5.649 | 5.25 |
| 33 | MP2C | Mx | -.008 | 5.25 |
| 34 | MP2C | X | 9.785 | 9.5 |
| 35 | MP2C | Z | -5.649 | 9.5 |
| 36 | MP2C | Mx | -.008 | 9.5 |
| 37 | MP4A | X | 2.591 | 6.75 |
| 38 | MP4A | Z | -1.496 | 6.75 |
| 39 | MP4A | Mx | -.001 | 6.75 |
| 40 | MP4A | X | 2.591 | 8 |
| 41 | MP4A | Z | -1.496 | 8 |
| 42 | MP4A | Mx | -.001 | 8 |
| 43 | MP4B | X | 1.45 | 6.75 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 44 | MP4B | Z | - .837 | 6.75 |
| 45 | MP4B | Mx | .000837 | 6.75 |
| 46 | MP4B | X | 1.45 | 8 |
| 47 | MP4B | Z | - .837 | 8 |
| 48 | MP4B | Mx | .000837 | 8 |
| 49 | MP4C | X | 4.21 | 6.75 |
| 50 | MP4C | Z | -2.431 | 6.75 |
| 51 | MP4C | Mx | 0 | 6.75 |
| 52 | MP4C | X | 4.21 | 8 |
| 53 | MP4C | Z | -2.431 | 8 |
| 54 | MP4C | Mx | 0 | 8 |
| 55 | MP2A | X | .869 | 6 |
| 56 | MP2A | Z | - .502 | 6 |
| 57 | MP2A | Mx | .000169 | 6 |
| 58 | MP2B | X | .803 | 6 |
| 59 | MP2B | Z | - .463 | 6 |
| 60 | MP2B | Mx | - .000464 | 6 |
| 61 | MP2C | X | .963 | 6 |
| 62 | MP2C | Z | - .556 | 6 |
| 63 | MP2C | Mx | .000371 | 6 |
| 64 | MP2A | X | 2.513 | 6 |
| 65 | MP2A | Z | -1.451 | 6 |
| 66 | MP2A | Mx | .001 | 6 |
| 67 | MP2B | X | 2.239 | 6 |
| 68 | MP2B | Z | -1.293 | 6 |
| 69 | MP2B | Mx | - .001 | 6 |
| 70 | MP2C | X | 3.337 | 6 |
| 71 | MP2C | Z | -1.926 | 6 |
| 72 | MP2C | Mx | 0 | 6 |
| 73 | R1 | X | 1.818 | 10.5 |
| 74 | R1 | Z | -1.05 | 10.5 |
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | 1.818 | 10.5 |
| 77 | R2 | Z | -1.05 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | 1.818 | 10.5 |
| 80 | R3 | Z | -1.05 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | 6.854 | .5 |
| 83 | MP1A | Z | -3.957 | .5 |
| 84 | MP1A | Mx | - .003 | .5 |
| 85 | MP1A | X | 6.854 | 5.5 |
| 86 | MP1A | Z | -3.957 | 5.5 |
| 87 | MP1A | Mx | - .003 | 5.5 |
| 88 | MP1B | X | 6.854 | .5 |
| 89 | MP1B | Z | -3.957 | .5 |
| 90 | MP1B | Mx | .003 | .5 |
| 91 | MP1B | X | 6.854 | 5.5 |
| 92 | MP1B | Z | -3.957 | 5.5 |
| 93 | MP1B | Mx | .003 | 5.5 |
| 94 | MP1C | X | 7.572 | .5 |
| 95 | MP1C | Z | -4.372 | .5 |
| 96 | MP1C | Mx | 0 | .5 |
| 97 | MP1C | X | 7.572 | 5.5 |
| 98 | MP1C | Z | -4.372 | 5.5 |
| 99 | MP1C | Mx | 0 | 5.5 |
| 100 | MP5A | X | 6.854 | .5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 101 | MP5A | Z | -3.957 | .5 |
| 102 | MP5A | Mx | -.003 | .5 |
| 103 | MP5A | X | 6.854 | 5.5 |
| 104 | MP5A | Z | -3.957 | 5.5 |
| 105 | MP5A | Mx | -.003 | 5.5 |
| 106 | MP5B | X | 6.854 | .5 |
| 107 | MP5B | Z | -3.957 | .5 |
| 108 | MP5B | Mx | .003 | .5 |
| 109 | MP5B | X | 6.854 | 5.5 |
| 110 | MP5B | Z | -3.957 | 5.5 |
| 111 | MP5B | Mx | .003 | 5.5 |
| 112 | MP5C | X | 7.572 | .5 |
| 113 | MP5C | Z | -4.372 | .5 |
| 114 | MP5C | Mx | 0 | .5 |
| 115 | MP5C | X | 7.572 | 5.5 |
| 116 | MP5C | Z | -4.372 | 5.5 |
| 117 | MP5C | Mx | 0 | 5.5 |
| 118 | GPS | X | .377 | .25 |
| 119 | GPS | Z | -.218 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | 1.028 | 8 |
| 122 | MP2A | Z | -.594 | 8 |
| 123 | MP2A | Mx | .001 | 8 |
| 124 | MP2A | X | 1.028 | 9 |
| 125 | MP2A | Z | -.594 | 9 |
| 126 | MP2A | Mx | .001 | 9 |
| 127 | MP2A | X | 1.028 | 8 |
| 128 | MP2A | Z | -.594 | 8 |
| 129 | MP2A | Mx | .000655 | 8 |
| 130 | MP2A | X | 1.028 | 9 |
| 131 | MP2A | Z | -.594 | 9 |
| 132 | MP2A | Mx | .000655 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 7.538 | 5.25 |
| 2 | MP2A | Z | 0 | 5.25 |
| 3 | MP2A | Mx | -.005 | 5.25 |
| 4 | MP2A | X | 7.538 | 9.5 |
| 5 | MP2A | Z | 0 | 9.5 |
| 6 | MP2A | Mx | -.005 | 9.5 |
| 7 | MP2B | X | 8.39 | 5.25 |
| 8 | MP2B | Z | 0 | 5.25 |
| 9 | MP2B | Mx | .000836 | 5.25 |
| 10 | MP2B | X | 8.39 | 9.5 |
| 11 | MP2B | Z | 0 | 9.5 |
| 12 | MP2B | Mx | .000836 | 9.5 |
| 13 | MP2C | X | 10.329 | 5.25 |
| 14 | MP2C | Z | 0 | 5.25 |
| 15 | MP2C | Mx | .009 | 5.25 |
| 16 | MP2C | X | 10.329 | 9.5 |
| 17 | MP2C | Z | 0 | 9.5 |
| 18 | MP2C | Mx | .009 | 9.5 |
| 19 | MP2A | X | 7.538 | 5.25 |
| 20 | MP2A | Z | 0 | 5.25 |
| 21 | MP2A | Mx | -.003 | 5.25 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 22 | MP2A | X | 7.538 | 9.5 |
| 23 | MP2A | Z | 0 | 9.5 |
| 24 | MP2A | Mx | -.003 | 9.5 |
| 25 | MP2B | X | 8.39 | 5.25 |
| 26 | MP2B | Z | 0 | 5.25 |
| 27 | MP2B | Mx | .006 | 5.25 |
| 28 | MP2B | X | 8.39 | 9.5 |
| 29 | MP2B | Z | 0 | 9.5 |
| 30 | MP2B | Mx | .006 | 9.5 |
| 31 | MP2C | X | 10.329 | 5.25 |
| 32 | MP2C | Z | 0 | 5.25 |
| 33 | MP2C | Mx | -.003 | 5.25 |
| 34 | MP2C | X | 10.329 | 9.5 |
| 35 | MP2C | Z | 0 | 9.5 |
| 36 | MP2C | Mx | -.003 | 9.5 |
| 37 | MP4A | X | 1.77 | 6.75 |
| 38 | MP4A | Z | 0 | 6.75 |
| 39 | MP4A | Mx | -.000872 | 6.75 |
| 40 | MP4A | X | 1.77 | 8 |
| 41 | MP4A | Z | 0 | 8 |
| 42 | MP4A | Mx | -.000872 | 8 |
| 43 | MP4B | X | 2.471 | 6.75 |
| 44 | MP4B | Z | 0 | 6.75 |
| 45 | MP4B | Mx | .001 | 6.75 |
| 46 | MP4B | X | 2.471 | 8 |
| 47 | MP4B | Z | 0 | 8 |
| 48 | MP4B | Mx | .001 | 8 |
| 49 | MP4C | X | 4.065 | 6.75 |
| 50 | MP4C | Z | 0 | 6.75 |
| 51 | MP4C | Mx | .001 | 6.75 |
| 52 | MP4C | X | 4.065 | 8 |
| 53 | MP4C | Z | 0 | 8 |
| 54 | MP4C | Mx | .001 | 8 |
| 55 | MP2A | X | .932 | 6 |
| 56 | MP2A | Z | 0 | 6 |
| 57 | MP2A | Mx | .000405 | 6 |
| 58 | MP2B | X | .973 | 6 |
| 59 | MP2B | Z | 0 | 6 |
| 60 | MP2B | Mx | -.000583 | 6 |
| 61 | MP2C | X | 1.065 | 6 |
| 62 | MP2C | Z | 0 | 6 |
| 63 | MP2C | Mx | 4.1e-5 | 6 |
| 64 | MP2A | X | 2.585 | 6 |
| 65 | MP2A | Z | 0 | 6 |
| 66 | MP2A | Mx | .001 | 6 |
| 67 | MP2B | X | 2.902 | 6 |
| 68 | MP2B | Z | 0 | 6 |
| 69 | MP2B | Mx | -.001 | 6 |
| 70 | MP2C | X | 3.536 | 6 |
| 71 | MP2C | Z | 0 | 6 |
| 72 | MP2C | Mx | -.000884 | 6 |
| 73 | R1 | X | 2.532 | 10.5 |
| 74 | R1 | Z | 0 | 10.5 |
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | 2.532 | 10.5 |
| 77 | R2 | Z | 0 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 79 | R3 | X | 2.532 | 10.5 |
| 80 | R3 | Z | 0 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | 7.638 | .5 |
| 83 | MP1A | Z | 0 | .5 |
| 84 | MP1A | Mx | -.004 | .5 |
| 85 | MP1A | X | 7.638 | 5.5 |
| 86 | MP1A | Z | 0 | 5.5 |
| 87 | MP1A | Mx | -.004 | 5.5 |
| 88 | MP1B | X | 8.467 | .5 |
| 89 | MP1B | Z | 0 | .5 |
| 90 | MP1B | Mx | .002 | .5 |
| 91 | MP1B | X | 8.467 | 5.5 |
| 92 | MP1B | Z | 0 | 5.5 |
| 93 | MP1B | Mx | .002 | 5.5 |
| 94 | MP1C | X | 8.467 | .5 |
| 95 | MP1C | Z | 0 | .5 |
| 96 | MP1C | Mx | .002 | .5 |
| 97 | MP1C | X | 8.467 | 5.5 |
| 98 | MP1C | Z | 0 | 5.5 |
| 99 | MP1C | Mx | .002 | 5.5 |
| 100 | MP5A | X | 7.638 | .5 |
| 101 | MP5A | Z | 0 | .5 |
| 102 | MP5A | Mx | -.004 | .5 |
| 103 | MP5A | X | 7.638 | 5.5 |
| 104 | MP5A | Z | 0 | 5.5 |
| 105 | MP5A | Mx | -.004 | 5.5 |
| 106 | MP5B | X | 8.467 | .5 |
| 107 | MP5B | Z | 0 | .5 |
| 108 | MP5B | Mx | .002 | .5 |
| 109 | MP5B | X | 8.467 | 5.5 |
| 110 | MP5B | Z | 0 | 5.5 |
| 111 | MP5B | Mx | .002 | 5.5 |
| 112 | MP5C | X | 8.467 | .5 |
| 113 | MP5C | Z | 0 | .5 |
| 114 | MP5C | Mx | .002 | .5 |
| 115 | MP5C | X | 8.467 | 5.5 |
| 116 | MP5C | Z | 0 | 5.5 |
| 117 | MP5C | Mx | .002 | 5.5 |
| 118 | GPS | X | .401 | .25 |
| 119 | GPS | Z | 0 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | 1.189 | 8 |
| 122 | MP2A | Z | 0 | 8 |
| 123 | MP2A | Mx | .001 | 8 |
| 124 | MP2A | X | 1.189 | 9 |
| 125 | MP2A | Z | 0 | 9 |
| 126 | MP2A | Mx | .001 | 9 |
| 127 | MP2A | X | 1.189 | 8 |
| 128 | MP2A | Z | 0 | 8 |
| 129 | MP2A | Mx | .001 | 8 |
| 130 | MP2A | X | 1.189 | 9 |
| 131 | MP2A | Z | 0 | 9 |
| 132 | MP2A | Mx | .001 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|--|--------------|-----------|--------------------|----------------|
|--|--------------|-----------|--------------------|----------------|



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 6.819 | 5.25 |
| 2 | MP2A | Z | 3.937 | 5.25 |
| 3 | MP2A | Mx | -.002 | 5.25 |
| 4 | MP2A | X | 6.819 | 9.5 |
| 5 | MP2A | Z | 3.937 | 9.5 |
| 6 | MP2A | Mx | -.002 | 9.5 |
| 7 | MP2B | X | 8.945 | 5.25 |
| 8 | MP2B | Z | 5.165 | 5.25 |
| 9 | MP2B | Mx | -.003 | 5.25 |
| 10 | MP2B | X | 8.945 | 9.5 |
| 11 | MP2B | Z | 5.165 | 9.5 |
| 12 | MP2B | Mx | -.003 | 9.5 |
| 13 | MP2C | X | 7.266 | 5.25 |
| 14 | MP2C | Z | 4.195 | 5.25 |
| 15 | MP2C | Mx | .006 | 5.25 |
| 16 | MP2C | X | 7.266 | 9.5 |
| 17 | MP2C | Z | 4.195 | 9.5 |
| 18 | MP2C | Mx | .006 | 9.5 |
| 19 | MP2A | X | 6.819 | 5.25 |
| 20 | MP2A | Z | 3.937 | 5.25 |
| 21 | MP2A | Mx | -.005 | 5.25 |
| 22 | MP2A | X | 6.819 | 9.5 |
| 23 | MP2A | Z | 3.937 | 9.5 |
| 24 | MP2A | Mx | -.005 | 9.5 |
| 25 | MP2B | X | 8.945 | 5.25 |
| 26 | MP2B | Z | 5.165 | 5.25 |
| 27 | MP2B | Mx | .009 | 5.25 |
| 28 | MP2B | X | 8.945 | 9.5 |
| 29 | MP2B | Z | 5.165 | 9.5 |
| 30 | MP2B | Mx | .009 | 9.5 |
| 31 | MP2C | X | 7.266 | 5.25 |
| 32 | MP2C | Z | 4.195 | 5.25 |
| 33 | MP2C | Mx | .000836 | 5.25 |
| 34 | MP2C | X | 7.266 | 9.5 |
| 35 | MP2C | Z | 4.195 | 9.5 |
| 36 | MP2C | Mx | .000836 | 9.5 |
| 37 | MP4A | X | 1.773 | 6.75 |
| 38 | MP4A | Z | 1.024 | 6.75 |
| 39 | MP4A | Mx | -.000962 | 6.75 |
| 40 | MP4A | X | 1.773 | 8 |
| 41 | MP4A | Z | 1.024 | 8 |
| 42 | MP4A | Mx | -.000962 | 8 |
| 43 | MP4B | X | 3.52 | 6.75 |
| 44 | MP4B | Z | 2.032 | 6.75 |
| 45 | MP4B | Mx | .001 | 6.75 |
| 46 | MP4B | X | 3.52 | 8 |
| 47 | MP4B | Z | 2.032 | 8 |
| 48 | MP4B | Mx | .001 | 8 |
| 49 | MP4C | X | 2.14 | 6.75 |
| 50 | MP4C | Z | 1.236 | 6.75 |
| 51 | MP4C | Mx | .001 | 6.75 |
| 52 | MP4C | X | 2.14 | 8 |
| 53 | MP4C | Z | 1.236 | 8 |
| 54 | MP4C | Mx | .001 | 8 |
| 55 | MP2A | X | .821 | 6 |
| 56 | MP2A | Z | .474 | 6 |
| 57 | MP2A | Mx | .000553 | 6 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 58 | MP2B | X | .923 | 6 |
| 59 | MP2B | Z | .533 | 6 |
| 60 | MP2B | Mx | -.000574 | 6 |
| 61 | MP2C | X | .843 | 6 |
| 62 | MP2C | Z | .486 | 6 |
| 63 | MP2C | Mx | -.000259 | 6 |
| 64 | MP2A | X | 2.513 | 6 |
| 65 | MP2A | Z | 1.451 | 6 |
| 66 | MP2A | Mx | .001 | 6 |
| 67 | MP2B | X | 3.062 | 6 |
| 68 | MP2B | Z | 1.768 | 6 |
| 69 | MP2B | Mx | -.000884 | 6 |
| 70 | MP2C | X | 2.513 | 6 |
| 71 | MP2C | Z | 1.451 | 6 |
| 72 | MP2C | Mx | -.001 | 6 |
| 73 | R1 | X | 2.941 | 10.5 |
| 74 | R1 | Z | 1.698 | 10.5 |
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | 2.941 | 10.5 |
| 77 | R2 | Z | 1.698 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | 2.941 | 10.5 |
| 80 | R3 | Z | 1.698 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | 6.854 | .5 |
| 83 | MP1A | Z | 3.957 | .5 |
| 84 | MP1A | Mx | -.003 | .5 |
| 85 | MP1A | X | 6.854 | 5.5 |
| 86 | MP1A | Z | 3.957 | 5.5 |
| 87 | MP1A | Mx | -.003 | 5.5 |
| 88 | MP1B | X | 7.572 | .5 |
| 89 | MP1B | Z | 4.372 | .5 |
| 90 | MP1B | Mx | 0 | .5 |
| 91 | MP1B | X | 7.572 | 5.5 |
| 92 | MP1B | Z | 4.372 | 5.5 |
| 93 | MP1B | Mx | 0 | 5.5 |
| 94 | MP1C | X | 6.854 | .5 |
| 95 | MP1C | Z | 3.957 | .5 |
| 96 | MP1C | Mx | .003 | .5 |
| 97 | MP1C | X | 6.854 | 5.5 |
| 98 | MP1C | Z | 3.957 | 5.5 |
| 99 | MP1C | Mx | .003 | 5.5 |
| 100 | MP5A | X | 6.854 | .5 |
| 101 | MP5A | Z | 3.957 | .5 |
| 102 | MP5A | Mx | -.003 | .5 |
| 103 | MP5A | X | 6.854 | 5.5 |
| 104 | MP5A | Z | 3.957 | 5.5 |
| 105 | MP5A | Mx | -.003 | 5.5 |
| 106 | MP5B | X | 7.572 | .5 |
| 107 | MP5B | Z | 4.372 | .5 |
| 108 | MP5B | Mx | 0 | .5 |
| 109 | MP5B | X | 7.572 | 5.5 |
| 110 | MP5B | Z | 4.372 | 5.5 |
| 111 | MP5B | Mx | 0 | 5.5 |
| 112 | MP5C | X | 6.854 | .5 |
| 113 | MP5C | Z | 3.957 | .5 |
| 114 | MP5C | Mx | .003 | .5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 115 | MP5C | X | 6.854 | 5.5 |
| 116 | MP5C | Z | 3.957 | 5.5 |
| 117 | MP5C | Mx | .003 | 5.5 |
| 118 | GPS | X | .287 | .25 |
| 119 | GPS | Z | .166 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | 1.029 | 8 |
| 122 | MP2A | Z | .594 | 8 |
| 123 | MP2A | Mx | .000981 | 8 |
| 124 | MP2A | X | 1.029 | 9 |
| 125 | MP2A | Z | .594 | 9 |
| 126 | MP2A | Mx | .000981 | 9 |
| 127 | MP2A | X | 1.029 | 8 |
| 128 | MP2A | Z | .594 | 8 |
| 129 | MP2A | Mx | .001 | 8 |
| 130 | MP2A | X | 1.029 | 9 |
| 131 | MP2A | Z | .594 | 9 |
| 132 | MP2A | Mx | .001 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 4.848 | 5.25 |
| 2 | MP2A | Z | 8.397 | 5.25 |
| 3 | MP2A | Mx | .002 | 5.25 |
| 4 | MP2A | X | 4.848 | 9.5 |
| 5 | MP2A | Z | 8.397 | 9.5 |
| 6 | MP2A | Mx | .002 | 9.5 |
| 7 | MP2B | X | 5.649 | 5.25 |
| 8 | MP2B | Z | 9.785 | 5.25 |
| 9 | MP2B | Mx | -.008 | 5.25 |
| 10 | MP2B | X | 5.649 | 9.5 |
| 11 | MP2B | Z | 9.785 | 9.5 |
| 12 | MP2B | Mx | -.008 | 9.5 |
| 13 | MP2C | X | 3.71 | 5.25 |
| 14 | MP2C | Z | 6.427 | 5.25 |
| 15 | MP2C | Mx | .004 | 5.25 |
| 16 | MP2C | X | 3.71 | 9.5 |
| 17 | MP2C | Z | 6.427 | 9.5 |
| 18 | MP2C | Mx | .004 | 9.5 |
| 19 | MP2A | X | 4.848 | 5.25 |
| 20 | MP2A | Z | 8.397 | 5.25 |
| 21 | MP2A | Mx | -.008 | 5.25 |
| 22 | MP2A | X | 4.848 | 9.5 |
| 23 | MP2A | Z | 8.397 | 9.5 |
| 24 | MP2A | Mx | -.008 | 9.5 |
| 25 | MP2B | X | 5.649 | 5.25 |
| 26 | MP2B | Z | 9.785 | 5.25 |
| 27 | MP2B | Mx | .008 | 5.25 |
| 28 | MP2B | X | 5.649 | 9.5 |
| 29 | MP2B | Z | 9.785 | 9.5 |
| 30 | MP2B | Mx | .008 | 9.5 |
| 31 | MP2C | X | 3.71 | 5.25 |
| 32 | MP2C | Z | 6.427 | 5.25 |
| 33 | MP2C | Mx | .004 | 5.25 |
| 34 | MP2C | X | 3.71 | 9.5 |
| 35 | MP2C | Z | 6.427 | 9.5 |



Company : Colliers Engineering & Design
 Designer : ILR
 Job Number : Project No. 10208049
 Model Name : 5000385364-VZW_MT_LO_H

Aug 2, 2023
 4:47 PM
 Checked By: DX

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 36 | MP2C | Mx | .004 | 9.5 |
| 37 | MP4A | X | 1.772 | 6.75 |
| 38 | MP4A | Z | 3.07 | 6.75 |
| 39 | MP4A | Mx | -.001 | 6.75 |
| 40 | MP4A | X | 1.772 | 8 |
| 41 | MP4A | Z | 3.07 | 8 |
| 42 | MP4A | Mx | -.001 | 8 |
| 43 | MP4B | X | 2.431 | 6.75 |
| 44 | MP4B | Z | 4.21 | 6.75 |
| 45 | MP4B | Mx | 0 | 6.75 |
| 46 | MP4B | X | 2.431 | 8 |
| 47 | MP4B | Z | 4.21 | 8 |
| 48 | MP4B | Mx | 0 | 8 |
| 49 | MP4C | X | .837 | 6.75 |
| 50 | MP4C | Z | 1.45 | 6.75 |
| 51 | MP4C | Mx | .000837 | 6.75 |
| 52 | MP4C | X | .837 | 8 |
| 53 | MP4C | Z | 1.45 | 8 |
| 54 | MP4C | Mx | .000837 | 8 |
| 55 | MP2A | X | .518 | 6 |
| 56 | MP2A | Z | .896 | 6 |
| 57 | MP2A | Mx | .000597 | 6 |
| 58 | MP2B | X | .556 | 6 |
| 59 | MP2B | Z | .963 | 6 |
| 60 | MP2B | Mx | -.000371 | 6 |
| 61 | MP2C | X | .463 | 6 |
| 62 | MP2C | Z | .803 | 6 |
| 63 | MP2C | Mx | -.000464 | 6 |
| 64 | MP2A | X | 1.768 | 6 |
| 65 | MP2A | Z | 3.062 | 6 |
| 66 | MP2A | Mx | .000884 | 6 |
| 67 | MP2B | X | 1.926 | 6 |
| 68 | MP2B | Z | 3.337 | 6 |
| 69 | MP2B | Mx | 0 | 6 |
| 70 | MP2C | X | 1.293 | 6 |
| 71 | MP2C | Z | 2.239 | 6 |
| 72 | MP2C | Mx | -.001 | 6 |
| 73 | R1 | X | 1.914 | 10.5 |
| 74 | R1 | Z | 3.315 | 10.5 |
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | 1.914 | 10.5 |
| 77 | R2 | Z | 3.315 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | 1.914 | 10.5 |
| 80 | R3 | Z | 3.315 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | 4.234 | .5 |
| 83 | MP1A | Z | 7.333 | .5 |
| 84 | MP1A | Mx | -.002 | .5 |
| 85 | MP1A | X | 4.234 | 5.5 |
| 86 | MP1A | Z | 7.333 | 5.5 |
| 87 | MP1A | Mx | -.002 | 5.5 |
| 88 | MP1B | X | 4.234 | .5 |
| 89 | MP1B | Z | 7.333 | .5 |
| 90 | MP1B | Mx | -.002 | .5 |
| 91 | MP1B | X | 4.234 | 5.5 |
| 92 | MP1B | Z | 7.333 | 5.5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|----------------------|----------------|
| 93 | MP1B | Mx | -.002 | 5.5 |
| 94 | MP1C | X | 3.819 | .5 |
| 95 | MP1C | Z | 6.615 | .5 |
| 96 | MP1C | Mx | .004 | .5 |
| 97 | MP1C | X | 3.819 | 5.5 |
| 98 | MP1C | Z | 6.615 | 5.5 |
| 99 | MP1C | Mx | .004 | 5.5 |
| 100 | MP5A | X | 4.234 | .5 |
| 101 | MP5A | Z | 7.333 | .5 |
| 102 | MP5A | Mx | -.002 | .5 |
| 103 | MP5A | X | 4.234 | 5.5 |
| 104 | MP5A | Z | 7.333 | 5.5 |
| 105 | MP5A | Mx | -.002 | 5.5 |
| 106 | MP5B | X | 4.234 | .5 |
| 107 | MP5B | Z | 7.333 | .5 |
| 108 | MP5B | Mx | -.002 | .5 |
| 109 | MP5B | X | 4.234 | 5.5 |
| 110 | MP5B | Z | 7.333 | 5.5 |
| 111 | MP5B | Mx | -.002 | 5.5 |
| 112 | MP5C | X | 3.819 | .5 |
| 113 | MP5C | Z | 6.615 | .5 |
| 114 | MP5C | Mx | .004 | .5 |
| 115 | MP5C | X | 3.819 | 5.5 |
| 116 | MP5C | Z | 6.615 | 5.5 |
| 117 | MP5C | Mx | .004 | 5.5 |
| 118 | GPS | X | .148 | .25 |
| 119 | GPS | Z | .257 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | .593 | 8 |
| 122 | MP2A | Z | 1.028 | 8 |
| 123 | MP2A | Mx | .000459 | 8 |
| 124 | MP2A | X | .593 | 9 |
| 125 | MP2A | Z | 1.028 | 9 |
| 126 | MP2A | Mx | .000459 | 9 |
| 127 | MP2A | X | .593 | 8 |
| 128 | MP2A | Z | 1.028 | 8 |
| 129 | MP2A | Mx | .001 | 8 |
| 130 | MP2A | X | .593 | 9 |
| 131 | MP2A | Z | 1.028 | 9 |
| 132 | MP2A | Mx | .001 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|----------------------|----------------|
| 1 | MP2A | X | 0 | 5.25 |
| 2 | MP2A | Z | 11.182 | 5.25 |
| 3 | MP2A | Mx | .006 | 5.25 |
| 4 | MP2A | X | 0 | 9.5 |
| 5 | MP2A | Z | 11.182 | 9.5 |
| 6 | MP2A | Mx | .006 | 9.5 |
| 7 | MP2B | X | 0 | 5.25 |
| 8 | MP2B | Z | 10.329 | 5.25 |
| 9 | MP2B | Mx | -.009 | 5.25 |
| 10 | MP2B | X | 0 | 9.5 |
| 11 | MP2B | Z | 10.329 | 9.5 |
| 12 | MP2B | Mx | -.009 | 9.5 |
| 13 | MP2C | X | 0 | 5.25 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 14 | MP2C | Z | 8.39 | 5.25 |
| 15 | MP2C | Mx | .000836 | 5.25 |
| 16 | MP2C | X | 0 | 9.5 |
| 17 | MP2C | Z | 8.39 | 9.5 |
| 18 | MP2C | Mx | .000836 | 9.5 |
| 19 | MP2A | X | 0 | 5.25 |
| 20 | MP2A | Z | 11.182 | 5.25 |
| 21 | MP2A | Mx | -.008 | 5.25 |
| 22 | MP2A | X | 0 | 9.5 |
| 23 | MP2A | Z | 11.182 | 9.5 |
| 24 | MP2A | Mx | -.008 | 9.5 |
| 25 | MP2B | X | 0 | 5.25 |
| 26 | MP2B | Z | 10.329 | 5.25 |
| 27 | MP2B | Mx | .003 | 5.25 |
| 28 | MP2B | X | 0 | 9.5 |
| 29 | MP2B | Z | 10.329 | 9.5 |
| 30 | MP2B | Mx | .003 | 9.5 |
| 31 | MP2C | X | 0 | 5.25 |
| 32 | MP2C | Z | 8.39 | 5.25 |
| 33 | MP2C | Mx | .006 | 5.25 |
| 34 | MP2C | X | 0 | 9.5 |
| 35 | MP2C | Z | 8.39 | 9.5 |
| 36 | MP2C | Mx | .006 | 9.5 |
| 37 | MP4A | X | 0 | 6.75 |
| 38 | MP4A | Z | 4.766 | 6.75 |
| 39 | MP4A | Mx | -.000414 | 6.75 |
| 40 | MP4A | X | 0 | 8 |
| 41 | MP4A | Z | 4.766 | 8 |
| 42 | MP4A | Mx | -.000414 | 8 |
| 43 | MP4B | X | 0 | 6.75 |
| 44 | MP4B | Z | 4.065 | 6.75 |
| 45 | MP4B | Mx | -.001 | 6.75 |
| 46 | MP4B | X | 0 | 8 |
| 47 | MP4B | Z | 4.065 | 8 |
| 48 | MP4B | Mx | -.001 | 8 |
| 49 | MP4C | X | 0 | 6.75 |
| 50 | MP4C | Z | 2.471 | 6.75 |
| 51 | MP4C | Mx | .001 | 6.75 |
| 52 | MP4C | X | 0 | 8 |
| 53 | MP4C | Z | 2.471 | 8 |
| 54 | MP4C | Mx | .001 | 8 |
| 55 | MP2A | X | 0 | 6 |
| 56 | MP2A | Z | 1.106 | 6 |
| 57 | MP2A | Mx | .000459 | 6 |
| 58 | MP2B | X | 0 | 6 |
| 59 | MP2B | Z | 1.065 | 6 |
| 60 | MP2B | Mx | -4.1e-5 | 6 |
| 61 | MP2C | X | 0 | 6 |
| 62 | MP2C | Z | .973 | 6 |
| 63 | MP2C | Mx | -.000583 | 6 |
| 64 | MP2A | X | 0 | 6 |
| 65 | MP2A | Z | 3.853 | 6 |
| 66 | MP2A | Mx | 0 | 6 |
| 67 | MP2B | X | 0 | 6 |
| 68 | MP2B | Z | 3.536 | 6 |
| 69 | MP2B | Mx | .000884 | 6 |
| 70 | MP2C | X | 0 | 6 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 71 | MP2C | Z | 2.902 | 6 |
| 72 | MP2C | Mx | -.001 | 6 |
| 73 | R1 | X | 0 | 10.5 |
| 74 | R1 | Z | 3.396 | 10.5 |
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | 0 | 10.5 |
| 77 | R2 | Z | 3.396 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | 0 | 10.5 |
| 80 | R3 | Z | 3.396 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | 0 | .5 |
| 83 | MP1A | Z | 8.744 | .5 |
| 84 | MP1A | Mx | 0 | .5 |
| 85 | MP1A | X | 0 | 5.5 |
| 86 | MP1A | Z | 8.744 | 5.5 |
| 87 | MP1A | Mx | 0 | 5.5 |
| 88 | MP1B | X | 0 | .5 |
| 89 | MP1B | Z | 7.914 | .5 |
| 90 | MP1B | Mx | -.003 | .5 |
| 91 | MP1B | X | 0 | 5.5 |
| 92 | MP1B | Z | 7.914 | 5.5 |
| 93 | MP1B | Mx | -.003 | 5.5 |
| 94 | MP1C | X | 0 | .5 |
| 95 | MP1C | Z | 7.914 | .5 |
| 96 | MP1C | Mx | .003 | .5 |
| 97 | MP1C | X | 0 | 5.5 |
| 98 | MP1C | Z | 7.914 | 5.5 |
| 99 | MP1C | Mx | .003 | 5.5 |
| 100 | MP5A | X | 0 | .5 |
| 101 | MP5A | Z | 8.744 | .5 |
| 102 | MP5A | Mx | 0 | .5 |
| 103 | MP5A | X | 0 | 5.5 |
| 104 | MP5A | Z | 8.744 | 5.5 |
| 105 | MP5A | Mx | 0 | 5.5 |
| 106 | MP5B | X | 0 | .5 |
| 107 | MP5B | Z | 7.914 | .5 |
| 108 | MP5B | Mx | -.003 | .5 |
| 109 | MP5B | X | 0 | 5.5 |
| 110 | MP5B | Z | 7.914 | 5.5 |
| 111 | MP5B | Mx | -.003 | 5.5 |
| 112 | MP5C | X | 0 | .5 |
| 113 | MP5C | Z | 7.914 | .5 |
| 114 | MP5C | Mx | .003 | .5 |
| 115 | MP5C | X | 0 | 5.5 |
| 116 | MP5C | Z | 7.914 | 5.5 |
| 117 | MP5C | Mx | .003 | 5.5 |
| 118 | GPS | X | 0 | .25 |
| 119 | GPS | Z | .331 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | 0 | 8 |
| 122 | MP2A | Z | 1.186 | 8 |
| 123 | MP2A | Mx | -.000183 | 8 |
| 124 | MP2A | X | 0 | 9 |
| 125 | MP2A | Z | 1.186 | 9 |
| 126 | MP2A | Mx | -.000183 | 9 |
| 127 | MP2A | X | 0 | 8 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 128 | MP2A | Z | 1.186 | 8 |
| 129 | MP2A | Mx | .000595 | 8 |
| 130 | MP2A | X | 0 | 9 |
| 131 | MP2A | Z | 1.186 | 9 |
| 132 | MP2A | Mx | .000595 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -5.423 | 5.25 |
| 2 | MP2A | Z | 9.392 | 5.25 |
| 3 | MP2A | Mx | .009 | 5.25 |
| 4 | MP2A | X | -5.423 | 9.5 |
| 5 | MP2A | Z | 9.392 | 9.5 |
| 6 | MP2A | Mx | .009 | 9.5 |
| 7 | MP2B | X | -4.195 | 5.25 |
| 8 | MP2B | Z | 7.266 | 5.25 |
| 9 | MP2B | Mx | -.006 | 5.25 |
| 10 | MP2B | X | -4.195 | 9.5 |
| 11 | MP2B | Z | 7.266 | 9.5 |
| 12 | MP2B | Mx | -.006 | 9.5 |
| 13 | MP2C | X | -5.165 | 5.25 |
| 14 | MP2C | Z | 8.945 | 5.25 |
| 15 | MP2C | Mx | -.003 | 5.25 |
| 16 | MP2C | X | -5.165 | 9.5 |
| 17 | MP2C | Z | 8.945 | 9.5 |
| 18 | MP2C | Mx | -.003 | 9.5 |
| 19 | MP2A | X | -5.423 | 5.25 |
| 20 | MP2A | Z | 9.392 | 5.25 |
| 21 | MP2A | Mx | -.005 | 5.25 |
| 22 | MP2A | X | -5.423 | 9.5 |
| 23 | MP2A | Z | 9.392 | 9.5 |
| 24 | MP2A | Mx | -.005 | 9.5 |
| 25 | MP2B | X | -4.195 | 5.25 |
| 26 | MP2B | Z | 7.266 | 5.25 |
| 27 | MP2B | Mx | -.000836 | 5.25 |
| 28 | MP2B | X | -4.195 | 9.5 |
| 29 | MP2B | Z | 7.266 | 9.5 |
| 30 | MP2B | Mx | -.000836 | 9.5 |
| 31 | MP2C | X | -5.165 | 5.25 |
| 32 | MP2C | Z | 8.945 | 5.25 |
| 33 | MP2C | Mx | .009 | 5.25 |
| 34 | MP2C | X | -5.165 | 9.5 |
| 35 | MP2C | Z | 8.945 | 9.5 |
| 36 | MP2C | Mx | .009 | 9.5 |
| 37 | MP4A | X | -2.244 | 6.75 |
| 38 | MP4A | Z | 3.888 | 6.75 |
| 39 | MP4A | Mx | .000767 | 6.75 |
| 40 | MP4A | X | -2.244 | 8 |
| 41 | MP4A | Z | 3.888 | 8 |
| 42 | MP4A | Mx | .000767 | 8 |
| 43 | MP4B | X | -1.236 | 6.75 |
| 44 | MP4B | Z | 2.14 | 6.75 |
| 45 | MP4B | Mx | -.001 | 6.75 |
| 46 | MP4B | X | -1.236 | 8 |
| 47 | MP4B | Z | 2.14 | 8 |
| 48 | MP4B | Mx | -.001 | 8 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 49 | MP4C | X | -2.032 | 6.75 |
| 50 | MP4C | Z | 3.52 | 6.75 |
| 51 | MP4C | Mx | .001 | 6.75 |
| 52 | MP4C | X | -2.032 | 8 |
| 53 | MP4C | Z | 3.52 | 8 |
| 54 | MP4C | Mx | .001 | 8 |
| 55 | MP2A | X | -.545 | 6 |
| 56 | MP2A | Z | .944 | 6 |
| 57 | MP2A | Mx | .000155 | 6 |
| 58 | MP2B | X | -.486 | 6 |
| 59 | MP2B | Z | .843 | 6 |
| 60 | MP2B | Mx | .000259 | 6 |
| 61 | MP2C | X | -.533 | 6 |
| 62 | MP2C | Z | .923 | 6 |
| 63 | MP2C | Mx | -.000574 | 6 |
| 64 | MP2A | X | -1.768 | 6 |
| 65 | MP2A | Z | 3.062 | 6 |
| 66 | MP2A | Mx | -.000884 | 6 |
| 67 | MP2B | X | -1.451 | 6 |
| 68 | MP2B | Z | 2.513 | 6 |
| 69 | MP2B | Mx | .001 | 6 |
| 70 | MP2C | X | -1.768 | 6 |
| 71 | MP2C | Z | 3.062 | 6 |
| 72 | MP2C | Mx | -.000884 | 6 |
| 73 | R1 | X | -1.266 | 10.5 |
| 74 | R1 | Z | 2.192 | 10.5 |
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | -1.266 | 10.5 |
| 77 | R2 | Z | 2.192 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | -1.266 | 10.5 |
| 80 | R3 | Z | 2.192 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | -4.234 | .5 |
| 83 | MP1A | Z | 7.333 | .5 |
| 84 | MP1A | Mx | .002 | .5 |
| 85 | MP1A | X | -4.234 | 5.5 |
| 86 | MP1A | Z | 7.333 | 5.5 |
| 87 | MP1A | Mx | .002 | 5.5 |
| 88 | MP1B | X | -3.819 | .5 |
| 89 | MP1B | Z | 6.615 | .5 |
| 90 | MP1B | Mx | -.004 | .5 |
| 91 | MP1B | X | -3.819 | 5.5 |
| 92 | MP1B | Z | 6.615 | 5.5 |
| 93 | MP1B | Mx | -.004 | 5.5 |
| 94 | MP1C | X | -4.234 | .5 |
| 95 | MP1C | Z | 7.333 | .5 |
| 96 | MP1C | Mx | .002 | .5 |
| 97 | MP1C | X | -4.234 | 5.5 |
| 98 | MP1C | Z | 7.333 | 5.5 |
| 99 | MP1C | Mx | .002 | 5.5 |
| 100 | MP5A | X | -4.234 | .5 |
| 101 | MP5A | Z | 7.333 | .5 |
| 102 | MP5A | Mx | .002 | .5 |
| 103 | MP5A | X | -4.234 | 5.5 |
| 104 | MP5A | Z | 7.333 | 5.5 |
| 105 | MP5A | Mx | .002 | 5.5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 106 | MP5B | X | -3.819 | .5 |
| 107 | MP5B | Z | 6.615 | .5 |
| 108 | MP5B | Mx | -.004 | .5 |
| 109 | MP5B | X | -3.819 | 5.5 |
| 110 | MP5B | Z | 6.615 | 5.5 |
| 111 | MP5B | Mx | -.004 | 5.5 |
| 112 | MP5C | X | -4.234 | .5 |
| 113 | MP5C | Z | 7.333 | .5 |
| 114 | MP5C | Mx | .002 | .5 |
| 115 | MP5C | X | -4.234 | 5.5 |
| 116 | MP5C | Z | 7.333 | 5.5 |
| 117 | MP5C | Mx | .002 | 5.5 |
| 118 | GPS | X | -.2 | .25 |
| 119 | GPS | Z | .347 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | -.593 | 8 |
| 122 | MP2A | Z | 1.027 | 8 |
| 123 | MP2A | Mx | -.000777 | 8 |
| 124 | MP2A | X | -.593 | 9 |
| 125 | MP2A | Z | 1.027 | 9 |
| 126 | MP2A | Mx | -.000777 | 9 |
| 127 | MP2A | X | -.593 | 8 |
| 128 | MP2A | Z | 1.027 | 8 |
| 129 | MP2A | Mx | -3.4e-5 | 8 |
| 130 | MP2A | X | -.593 | 9 |
| 131 | MP2A | Z | 1.027 | 9 |
| 132 | MP2A | Mx | -3.4e-5 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -7.814 | 5.25 |
| 2 | MP2A | Z | 4.512 | 5.25 |
| 3 | MP2A | Mx | .007 | 5.25 |
| 4 | MP2A | X | -7.814 | 9.5 |
| 5 | MP2A | Z | 4.512 | 9.5 |
| 6 | MP2A | Mx | .007 | 9.5 |
| 7 | MP2B | X | -6.427 | 5.25 |
| 8 | MP2B | Z | 3.71 | 5.25 |
| 9 | MP2B | Mx | -.004 | 5.25 |
| 10 | MP2B | X | -6.427 | 9.5 |
| 11 | MP2B | Z | 3.71 | 9.5 |
| 12 | MP2B | Mx | -.004 | 9.5 |
| 13 | MP2C | X | -9.785 | 5.25 |
| 14 | MP2C | Z | 5.649 | 5.25 |
| 15 | MP2C | Mx | -.008 | 5.25 |
| 16 | MP2C | X | -9.785 | 9.5 |
| 17 | MP2C | Z | 5.649 | 9.5 |
| 18 | MP2C | Mx | -.008 | 9.5 |
| 19 | MP2A | X | -7.814 | 5.25 |
| 20 | MP2A | Z | 4.512 | 5.25 |
| 21 | MP2A | Mx | -.000411 | 5.25 |
| 22 | MP2A | X | -7.814 | 9.5 |
| 23 | MP2A | Z | 4.512 | 9.5 |
| 24 | MP2A | Mx | -.000411 | 9.5 |
| 25 | MP2B | X | -6.427 | 5.25 |
| 26 | MP2B | Z | 3.71 | 5.25 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 27 | MP2B | Mx | -.004 | 5.25 |
| 28 | MP2B | X | -6.427 | 9.5 |
| 29 | MP2B | Z | 3.71 | 9.5 |
| 30 | MP2B | Mx | -.004 | 9.5 |
| 31 | MP2C | X | -9.785 | 5.25 |
| 32 | MP2C | Z | 5.649 | 5.25 |
| 33 | MP2C | Mx | .008 | 5.25 |
| 34 | MP2C | X | -9.785 | 9.5 |
| 35 | MP2C | Z | 5.649 | 9.5 |
| 36 | MP2C | Mx | .008 | 9.5 |
| 37 | MP4A | X | -2.591 | 6.75 |
| 38 | MP4A | Z | 1.496 | 6.75 |
| 39 | MP4A | Mx | .001 | 6.75 |
| 40 | MP4A | X | -2.591 | 8 |
| 41 | MP4A | Z | 1.496 | 8 |
| 42 | MP4A | Mx | .001 | 8 |
| 43 | MP4B | X | -1.45 | 6.75 |
| 44 | MP4B | Z | .837 | 6.75 |
| 45 | MP4B | Mx | -.000837 | 6.75 |
| 46 | MP4B | X | -1.45 | 8 |
| 47 | MP4B | Z | .837 | 8 |
| 48 | MP4B | Mx | -.000837 | 8 |
| 49 | MP4C | X | -4.21 | 6.75 |
| 50 | MP4C | Z | 2.431 | 6.75 |
| 51 | MP4C | Mx | 0 | 6.75 |
| 52 | MP4C | X | -4.21 | 8 |
| 53 | MP4C | Z | 2.431 | 8 |
| 54 | MP4C | Mx | 0 | 8 |
| 55 | MP2A | X | -.869 | 6 |
| 56 | MP2A | Z | .502 | 6 |
| 57 | MP2A | Mx | -.000169 | 6 |
| 58 | MP2B | X | -.803 | 6 |
| 59 | MP2B | Z | .463 | 6 |
| 60 | MP2B | Mx | .000464 | 6 |
| 61 | MP2C | X | -.963 | 6 |
| 62 | MP2C | Z | .556 | 6 |
| 63 | MP2C | Mx | -.000371 | 6 |
| 64 | MP2A | X | -2.513 | 6 |
| 65 | MP2A | Z | 1.451 | 6 |
| 66 | MP2A | Mx | -.001 | 6 |
| 67 | MP2B | X | -2.239 | 6 |
| 68 | MP2B | Z | 1.293 | 6 |
| 69 | MP2B | Mx | .001 | 6 |
| 70 | MP2C | X | -3.337 | 6 |
| 71 | MP2C | Z | 1.926 | 6 |
| 72 | MP2C | Mx | 0 | 6 |
| 73 | R1 | X | -1.818 | 10.5 |
| 74 | R1 | Z | 1.05 | 10.5 |
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | -1.818 | 10.5 |
| 77 | R2 | Z | 1.05 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | -1.818 | 10.5 |
| 80 | R3 | Z | 1.05 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | -6.854 | .5 |
| 83 | MP1A | Z | 3.957 | .5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 84 | MP1A | Mx | .003 | .5 |
| 85 | MP1A | X | -6.854 | 5.5 |
| 86 | MP1A | Z | 3.957 | 5.5 |
| 87 | MP1A | Mx | .003 | 5.5 |
| 88 | MP1B | X | -6.854 | .5 |
| 89 | MP1B | Z | 3.957 | .5 |
| 90 | MP1B | Mx | -.003 | .5 |
| 91 | MP1B | X | -6.854 | 5.5 |
| 92 | MP1B | Z | 3.957 | 5.5 |
| 93 | MP1B | Mx | -.003 | 5.5 |
| 94 | MP1C | X | -7.572 | .5 |
| 95 | MP1C | Z | 4.372 | .5 |
| 96 | MP1C | Mx | 0 | .5 |
| 97 | MP1C | X | -7.572 | 5.5 |
| 98 | MP1C | Z | 4.372 | 5.5 |
| 99 | MP1C | Mx | 0 | 5.5 |
| 100 | MP5A | X | -6.854 | .5 |
| 101 | MP5A | Z | 3.957 | .5 |
| 102 | MP5A | Mx | .003 | .5 |
| 103 | MP5A | X | -6.854 | 5.5 |
| 104 | MP5A | Z | 3.957 | 5.5 |
| 105 | MP5A | Mx | .003 | 5.5 |
| 106 | MP5B | X | -6.854 | .5 |
| 107 | MP5B | Z | 3.957 | .5 |
| 108 | MP5B | Mx | -.003 | .5 |
| 109 | MP5B | X | -6.854 | 5.5 |
| 110 | MP5B | Z | 3.957 | 5.5 |
| 111 | MP5B | Mx | -.003 | 5.5 |
| 112 | MP5C | X | -7.572 | .5 |
| 113 | MP5C | Z | 4.372 | .5 |
| 114 | MP5C | Mx | 0 | .5 |
| 115 | MP5C | X | -7.572 | 5.5 |
| 116 | MP5C | Z | 4.372 | 5.5 |
| 117 | MP5C | Mx | 0 | 5.5 |
| 118 | GPS | X | -.377 | .25 |
| 119 | GPS | Z | .218 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | -1.028 | 8 |
| 122 | MP2A | Z | .594 | 8 |
| 123 | MP2A | Mx | -.001 | 8 |
| 124 | MP2A | X | -1.028 | 9 |
| 125 | MP2A | Z | .594 | 9 |
| 126 | MP2A | Mx | -.001 | 9 |
| 127 | MP2A | X | -1.028 | 8 |
| 128 | MP2A | Z | .594 | 8 |
| 129 | MP2A | Mx | -.000655 | 8 |
| 130 | MP2A | X | -1.028 | 9 |
| 131 | MP2A | Z | .594 | 9 |
| 132 | MP2A | Mx | -.000655 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -7.538 | 5.25 |
| 2 | MP2A | Z | 0 | 5.25 |
| 3 | MP2A | Mx | .005 | 5.25 |
| 4 | MP2A | X | -7.538 | 9.5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 5 | MP2A | Z | 0 | 9.5 |
| 6 | MP2A | Mx | .005 | 9.5 |
| 7 | MP2B | X | -8.39 | 5.25 |
| 8 | MP2B | Z | 0 | 5.25 |
| 9 | MP2B | Mx | -.000836 | 5.25 |
| 10 | MP2B | X | -8.39 | 9.5 |
| 11 | MP2B | Z | 0 | 9.5 |
| 12 | MP2B | Mx | -.000836 | 9.5 |
| 13 | MP2C | X | -10.329 | 5.25 |
| 14 | MP2C | Z | 0 | 5.25 |
| 15 | MP2C | Mx | -.009 | 5.25 |
| 16 | MP2C | X | -10.329 | 9.5 |
| 17 | MP2C | Z | 0 | 9.5 |
| 18 | MP2C | Mx | -.009 | 9.5 |
| 19 | MP2A | X | -7.538 | 5.25 |
| 20 | MP2A | Z | 0 | 5.25 |
| 21 | MP2A | Mx | .003 | 5.25 |
| 22 | MP2A | X | -7.538 | 9.5 |
| 23 | MP2A | Z | 0 | 9.5 |
| 24 | MP2A | Mx | .003 | 9.5 |
| 25 | MP2B | X | -8.39 | 5.25 |
| 26 | MP2B | Z | 0 | 5.25 |
| 27 | MP2B | Mx | -.006 | 5.25 |
| 28 | MP2B | X | -8.39 | 9.5 |
| 29 | MP2B | Z | 0 | 9.5 |
| 30 | MP2B | Mx | -.006 | 9.5 |
| 31 | MP2C | X | -10.329 | 5.25 |
| 32 | MP2C | Z | 0 | 5.25 |
| 33 | MP2C | Mx | .003 | 5.25 |
| 34 | MP2C | X | -10.329 | 9.5 |
| 35 | MP2C | Z | 0 | 9.5 |
| 36 | MP2C | Mx | .003 | 9.5 |
| 37 | MP4A | X | -1.77 | 6.75 |
| 38 | MP4A | Z | 0 | 6.75 |
| 39 | MP4A | Mx | .000872 | 6.75 |
| 40 | MP4A | X | -1.77 | 8 |
| 41 | MP4A | Z | 0 | 8 |
| 42 | MP4A | Mx | .000872 | 8 |
| 43 | MP4B | X | -2.471 | 6.75 |
| 44 | MP4B | Z | 0 | 6.75 |
| 45 | MP4B | Mx | -.001 | 6.75 |
| 46 | MP4B | X | -2.471 | 8 |
| 47 | MP4B | Z | 0 | 8 |
| 48 | MP4B | Mx | -.001 | 8 |
| 49 | MP4C | X | -4.065 | 6.75 |
| 50 | MP4C | Z | 0 | 6.75 |
| 51 | MP4C | Mx | -.001 | 6.75 |
| 52 | MP4C | X | -4.065 | 8 |
| 53 | MP4C | Z | 0 | 8 |
| 54 | MP4C | Mx | -.001 | 8 |
| 55 | MP2A | X | -.932 | 6 |
| 56 | MP2A | Z | 0 | 6 |
| 57 | MP2A | Mx | -.000405 | 6 |
| 58 | MP2B | X | -.973 | 6 |
| 59 | MP2B | Z | 0 | 6 |
| 60 | MP2B | Mx | .000583 | 6 |
| 61 | MP2C | X | -1.065 | 6 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 62 | MP2C | Z | 0 | 6 |
| 63 | MP2C | Mx | -4.1e-5 | 6 |
| 64 | MP2A | X | -2.585 | 6 |
| 65 | MP2A | Z | 0 | 6 |
| 66 | MP2A | Mx | -.001 | 6 |
| 67 | MP2B | X | -2.902 | 6 |
| 68 | MP2B | Z | 0 | 6 |
| 69 | MP2B | Mx | .001 | 6 |
| 70 | MP2C | X | -3.536 | 6 |
| 71 | MP2C | Z | 0 | 6 |
| 72 | MP2C | Mx | .000884 | 6 |
| 73 | R1 | X | -2.532 | 10.5 |
| 74 | R1 | Z | 0 | 10.5 |
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | -2.532 | 10.5 |
| 77 | R2 | Z | 0 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | -2.532 | 10.5 |
| 80 | R3 | Z | 0 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | -7.638 | .5 |
| 83 | MP1A | Z | 0 | .5 |
| 84 | MP1A | Mx | .004 | .5 |
| 85 | MP1A | X | -7.638 | 5.5 |
| 86 | MP1A | Z | 0 | 5.5 |
| 87 | MP1A | Mx | .004 | 5.5 |
| 88 | MP1B | X | -8.467 | .5 |
| 89 | MP1B | Z | 0 | .5 |
| 90 | MP1B | Mx | -.002 | .5 |
| 91 | MP1B | X | -8.467 | 5.5 |
| 92 | MP1B | Z | 0 | 5.5 |
| 93 | MP1B | Mx | -.002 | 5.5 |
| 94 | MP1C | X | -8.467 | .5 |
| 95 | MP1C | Z | 0 | .5 |
| 96 | MP1C | Mx | -.002 | .5 |
| 97 | MP1C | X | -8.467 | 5.5 |
| 98 | MP1C | Z | 0 | 5.5 |
| 99 | MP1C | Mx | -.002 | 5.5 |
| 100 | MP5A | X | -7.638 | .5 |
| 101 | MP5A | Z | 0 | .5 |
| 102 | MP5A | Mx | .004 | .5 |
| 103 | MP5A | X | -7.638 | 5.5 |
| 104 | MP5A | Z | 0 | 5.5 |
| 105 | MP5A | Mx | .004 | 5.5 |
| 106 | MP5B | X | -8.467 | .5 |
| 107 | MP5B | Z | 0 | .5 |
| 108 | MP5B | Mx | -.002 | .5 |
| 109 | MP5B | X | -8.467 | 5.5 |
| 110 | MP5B | Z | 0 | 5.5 |
| 111 | MP5B | Mx | -.002 | 5.5 |
| 112 | MP5C | X | -8.467 | .5 |
| 113 | MP5C | Z | 0 | .5 |
| 114 | MP5C | Mx | -.002 | .5 |
| 115 | MP5C | X | -8.467 | 5.5 |
| 116 | MP5C | Z | 0 | 5.5 |
| 117 | MP5C | Mx | -.002 | 5.5 |
| 118 | GPS | X | -4.01 | .25 |



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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 119 | GPS | Z | 0 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | -1.189 | 8 |
| 122 | MP2A | Z | 0 | 8 |
| 123 | MP2A | Mx | -.001 | 8 |
| 124 | MP2A | X | -1.189 | 9 |
| 125 | MP2A | Z | 0 | 9 |
| 126 | MP2A | Mx | -.001 | 9 |
| 127 | MP2A | X | -1.189 | 8 |
| 128 | MP2A | Z | 0 | 8 |
| 129 | MP2A | Mx | -.001 | 8 |
| 130 | MP2A | X | -1.189 | 9 |
| 131 | MP2A | Z | 0 | 9 |
| 132 | MP2A | Mx | -.001 | 9 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -6.819 | 5.25 |
| 2 | MP2A | Z | -3.937 | 5.25 |
| 3 | MP2A | Mx | .002 | 5.25 |
| 4 | MP2A | X | -6.819 | 9.5 |
| 5 | MP2A | Z | -3.937 | 9.5 |
| 6 | MP2A | Mx | .002 | 9.5 |
| 7 | MP2B | X | -8.945 | 5.25 |
| 8 | MP2B | Z | -5.165 | 5.25 |
| 9 | MP2B | Mx | .003 | 5.25 |
| 10 | MP2B | X | -8.945 | 9.5 |
| 11 | MP2B | Z | -5.165 | 9.5 |
| 12 | MP2B | Mx | .003 | 9.5 |
| 13 | MP2C | X | -7.266 | 5.25 |
| 14 | MP2C | Z | -4.195 | 5.25 |
| 15 | MP2C | Mx | -.006 | 5.25 |
| 16 | MP2C | X | -7.266 | 9.5 |
| 17 | MP2C | Z | -4.195 | 9.5 |
| 18 | MP2C | Mx | -.006 | 9.5 |
| 19 | MP2A | X | -6.819 | 5.25 |
| 20 | MP2A | Z | -3.937 | 5.25 |
| 21 | MP2A | Mx | .005 | 5.25 |
| 22 | MP2A | X | -6.819 | 9.5 |
| 23 | MP2A | Z | -3.937 | 9.5 |
| 24 | MP2A | Mx | .005 | 9.5 |
| 25 | MP2B | X | -8.945 | 5.25 |
| 26 | MP2B | Z | -5.165 | 5.25 |
| 27 | MP2B | Mx | -.009 | 5.25 |
| 28 | MP2B | X | -8.945 | 9.5 |
| 29 | MP2B | Z | -5.165 | 9.5 |
| 30 | MP2B | Mx | -.009 | 9.5 |
| 31 | MP2C | X | -7.266 | 5.25 |
| 32 | MP2C | Z | -4.195 | 5.25 |
| 33 | MP2C | Mx | -.000836 | 5.25 |
| 34 | MP2C | X | -7.266 | 9.5 |
| 35 | MP2C | Z | -4.195 | 9.5 |
| 36 | MP2C | Mx | -.000836 | 9.5 |
| 37 | MP4A | X | -1.773 | 6.75 |
| 38 | MP4A | Z | -1.024 | 6.75 |
| 39 | MP4A | Mx | .000962 | 6.75 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 40 | MP4A | X | -1.773 | 8 |
| 41 | MP4A | Z | -1.024 | 8 |
| 42 | MP4A | Mx | .000962 | 8 |
| 43 | MP4B | X | -3.52 | 6.75 |
| 44 | MP4B | Z | -2.032 | 6.75 |
| 45 | MP4B | Mx | -.001 | 6.75 |
| 46 | MP4B | X | -3.52 | 8 |
| 47 | MP4B | Z | -2.032 | 8 |
| 48 | MP4B | Mx | -.001 | 8 |
| 49 | MP4C | X | -2.14 | 6.75 |
| 50 | MP4C | Z | -1.236 | 6.75 |
| 51 | MP4C | Mx | -.001 | 6.75 |
| 52 | MP4C | X | -2.14 | 8 |
| 53 | MP4C | Z | -1.236 | 8 |
| 54 | MP4C | Mx | -.001 | 8 |
| 55 | MP2A | X | -.821 | 6 |
| 56 | MP2A | Z | -.474 | 6 |
| 57 | MP2A | Mx | -.000553 | 6 |
| 58 | MP2B | X | -.923 | 6 |
| 59 | MP2B | Z | -.533 | 6 |
| 60 | MP2B | Mx | .000574 | 6 |
| 61 | MP2C | X | -.843 | 6 |
| 62 | MP2C | Z | -.486 | 6 |
| 63 | MP2C | Mx | .000259 | 6 |
| 64 | MP2A | X | -2.513 | 6 |
| 65 | MP2A | Z | -1.451 | 6 |
| 66 | MP2A | Mx | -.001 | 6 |
| 67 | MP2B | X | -3.062 | 6 |
| 68 | MP2B | Z | -1.768 | 6 |
| 69 | MP2B | Mx | .000884 | 6 |
| 70 | MP2C | X | -2.513 | 6 |
| 71 | MP2C | Z | -1.451 | 6 |
| 72 | MP2C | Mx | .001 | 6 |
| 73 | R1 | X | -2.941 | 10.5 |
| 74 | R1 | Z | -1.698 | 10.5 |
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | -2.941 | 10.5 |
| 77 | R2 | Z | -1.698 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | -2.941 | 10.5 |
| 80 | R3 | Z | -1.698 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | -6.854 | .5 |
| 83 | MP1A | Z | -3.957 | .5 |
| 84 | MP1A | Mx | .003 | .5 |
| 85 | MP1A | X | -6.854 | 5.5 |
| 86 | MP1A | Z | -3.957 | 5.5 |
| 87 | MP1A | Mx | .003 | 5.5 |
| 88 | MP1B | X | -7.572 | .5 |
| 89 | MP1B | Z | -4.372 | .5 |
| 90 | MP1B | Mx | 0 | .5 |
| 91 | MP1B | X | -7.572 | 5.5 |
| 92 | MP1B | Z | -4.372 | 5.5 |
| 93 | MP1B | Mx | 0 | 5.5 |
| 94 | MP1C | X | -6.854 | .5 |
| 95 | MP1C | Z | -3.957 | .5 |
| 96 | MP1C | Mx | -.003 | .5 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.-%] |
|-----|--------------|-----------|--------------------|-----------------|
| 97 | MP1C | X | -6.854 | 5.5 |
| 98 | MP1C | Z | -3.957 | 5.5 |
| 99 | MP1C | Mx | -.003 | 5.5 |
| 100 | MP5A | X | -6.854 | .5 |
| 101 | MP5A | Z | -3.957 | .5 |
| 102 | MP5A | Mx | .003 | .5 |
| 103 | MP5A | X | -6.854 | 5.5 |
| 104 | MP5A | Z | -3.957 | 5.5 |
| 105 | MP5A | Mx | .003 | 5.5 |
| 106 | MP5B | X | -7.572 | .5 |
| 107 | MP5B | Z | -4.372 | .5 |
| 108 | MP5B | Mx | 0 | .5 |
| 109 | MP5B | X | -7.572 | 5.5 |
| 110 | MP5B | Z | -4.372 | 5.5 |
| 111 | MP5B | Mx | 0 | 5.5 |
| 112 | MP5C | X | -6.854 | .5 |
| 113 | MP5C | Z | -3.957 | .5 |
| 114 | MP5C | Mx | -.003 | .5 |
| 115 | MP5C | X | -6.854 | 5.5 |
| 116 | MP5C | Z | -3.957 | 5.5 |
| 117 | MP5C | Mx | -.003 | 5.5 |
| 118 | GPS | X | -.287 | .25 |
| 119 | GPS | Z | -.166 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | -1.029 | 8 |
| 122 | MP2A | Z | -.594 | 8 |
| 123 | MP2A | Mx | -.000981 | 8 |
| 124 | MP2A | X | -1.029 | 9 |
| 125 | MP2A | Z | -.594 | 9 |
| 126 | MP2A | Mx | -.000981 | 9 |
| 127 | MP2A | X | -1.029 | 8 |
| 128 | MP2A | Z | -.594 | 8 |
| 129 | MP2A | Mx | -.001 | 8 |
| 130 | MP2A | X | -1.029 | 9 |
| 131 | MP2A | Z | -.594 | 9 |
| 132 | MP2A | Mx | -.001 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.-%] |
|----|--------------|-----------|--------------------|-----------------|
| 1 | MP2A | X | -4.848 | 5.25 |
| 2 | MP2A | Z | -8.397 | 5.25 |
| 3 | MP2A | Mx | -.002 | 5.25 |
| 4 | MP2A | X | -4.848 | 9.5 |
| 5 | MP2A | Z | -8.397 | 9.5 |
| 6 | MP2A | Mx | -.002 | 9.5 |
| 7 | MP2B | X | -5.649 | 5.25 |
| 8 | MP2B | Z | -9.785 | 5.25 |
| 9 | MP2B | Mx | .008 | 5.25 |
| 10 | MP2B | X | -5.649 | 9.5 |
| 11 | MP2B | Z | -9.785 | 9.5 |
| 12 | MP2B | Mx | .008 | 9.5 |
| 13 | MP2C | X | -3.71 | 5.25 |
| 14 | MP2C | Z | -6.427 | 5.25 |
| 15 | MP2C | Mx | -.004 | 5.25 |
| 16 | MP2C | X | -3.71 | 9.5 |
| 17 | MP2C | Z | -6.427 | 9.5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 18 | MP2C | Mx | -.004 | 9.5 |
| 19 | MP2A | X | -4.848 | 5.25 |
| 20 | MP2A | Z | -8.397 | 5.25 |
| 21 | MP2A | Mx | .008 | 5.25 |
| 22 | MP2A | X | -4.848 | 9.5 |
| 23 | MP2A | Z | -8.397 | 9.5 |
| 24 | MP2A | Mx | .008 | 9.5 |
| 25 | MP2B | X | -5.649 | 5.25 |
| 26 | MP2B | Z | -9.785 | 5.25 |
| 27 | MP2B | Mx | -.008 | 5.25 |
| 28 | MP2B | X | -5.649 | 9.5 |
| 29 | MP2B | Z | -9.785 | 9.5 |
| 30 | MP2B | Mx | -.008 | 9.5 |
| 31 | MP2C | X | -3.71 | 5.25 |
| 32 | MP2C | Z | -6.427 | 5.25 |
| 33 | MP2C | Mx | -.004 | 5.25 |
| 34 | MP2C | X | -3.71 | 9.5 |
| 35 | MP2C | Z | -6.427 | 9.5 |
| 36 | MP2C | Mx | -.004 | 9.5 |
| 37 | MP4A | X | -1.772 | 6.75 |
| 38 | MP4A | Z | -3.07 | 6.75 |
| 39 | MP4A | Mx | .001 | 6.75 |
| 40 | MP4A | X | -1.772 | 8 |
| 41 | MP4A | Z | -3.07 | 8 |
| 42 | MP4A | Mx | .001 | 8 |
| 43 | MP4B | X | -2.431 | 6.75 |
| 44 | MP4B | Z | -4.21 | 6.75 |
| 45 | MP4B | Mx | 0 | 6.75 |
| 46 | MP4B | X | -2.431 | 8 |
| 47 | MP4B | Z | -4.21 | 8 |
| 48 | MP4B | Mx | 0 | 8 |
| 49 | MP4C | X | -.837 | 6.75 |
| 50 | MP4C | Z | -1.45 | 6.75 |
| 51 | MP4C | Mx | -.000837 | 6.75 |
| 52 | MP4C | X | -.837 | 8 |
| 53 | MP4C | Z | -1.45 | 8 |
| 54 | MP4C | Mx | -.000837 | 8 |
| 55 | MP2A | X | -.518 | 6 |
| 56 | MP2A | Z | -.896 | 6 |
| 57 | MP2A | Mx | -.000597 | 6 |
| 58 | MP2B | X | -.556 | 6 |
| 59 | MP2B | Z | -.963 | 6 |
| 60 | MP2B | Mx | .000371 | 6 |
| 61 | MP2C | X | -.463 | 6 |
| 62 | MP2C | Z | -.803 | 6 |
| 63 | MP2C | Mx | .000464 | 6 |
| 64 | MP2A | X | -1.768 | 6 |
| 65 | MP2A | Z | -3.062 | 6 |
| 66 | MP2A | Mx | -.000884 | 6 |
| 67 | MP2B | X | -1.926 | 6 |
| 68 | MP2B | Z | -3.337 | 6 |
| 69 | MP2B | Mx | 0 | 6 |
| 70 | MP2C | X | -1.293 | 6 |
| 71 | MP2C | Z | -2.239 | 6 |
| 72 | MP2C | Mx | .001 | 6 |
| 73 | R1 | X | -1.914 | 10.5 |
| 74 | R1 | Z | -3.315 | 10.5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 75 | R1 | Mx | 0 | 10.5 |
| 76 | R2 | X | -1.914 | 10.5 |
| 77 | R2 | Z | -3.315 | 10.5 |
| 78 | R2 | Mx | 0 | 10.5 |
| 79 | R3 | X | -1.914 | 10.5 |
| 80 | R3 | Z | -3.315 | 10.5 |
| 81 | R3 | Mx | 0 | 10.5 |
| 82 | MP1A | X | -4.234 | .5 |
| 83 | MP1A | Z | -7.333 | .5 |
| 84 | MP1A | Mx | .002 | .5 |
| 85 | MP1A | X | -4.234 | 5.5 |
| 86 | MP1A | Z | -7.333 | 5.5 |
| 87 | MP1A | Mx | .002 | 5.5 |
| 88 | MP1B | X | -4.234 | .5 |
| 89 | MP1B | Z | -7.333 | .5 |
| 90 | MP1B | Mx | .002 | .5 |
| 91 | MP1B | X | -4.234 | 5.5 |
| 92 | MP1B | Z | -7.333 | 5.5 |
| 93 | MP1B | Mx | .002 | 5.5 |
| 94 | MP1C | X | -3.819 | .5 |
| 95 | MP1C | Z | -6.615 | .5 |
| 96 | MP1C | Mx | -.004 | .5 |
| 97 | MP1C | X | -3.819 | 5.5 |
| 98 | MP1C | Z | -6.615 | 5.5 |
| 99 | MP1C | Mx | -.004 | 5.5 |
| 100 | MP5A | X | -4.234 | .5 |
| 101 | MP5A | Z | -7.333 | .5 |
| 102 | MP5A | Mx | .002 | .5 |
| 103 | MP5A | X | -4.234 | 5.5 |
| 104 | MP5A | Z | -7.333 | 5.5 |
| 105 | MP5A | Mx | .002 | 5.5 |
| 106 | MP5B | X | -4.234 | .5 |
| 107 | MP5B | Z | -7.333 | .5 |
| 108 | MP5B | Mx | .002 | .5 |
| 109 | MP5B | X | -4.234 | 5.5 |
| 110 | MP5B | Z | -7.333 | 5.5 |
| 111 | MP5B | Mx | .002 | 5.5 |
| 112 | MP5C | X | -3.819 | .5 |
| 113 | MP5C | Z | -6.615 | .5 |
| 114 | MP5C | Mx | -.004 | .5 |
| 115 | MP5C | X | -3.819 | 5.5 |
| 116 | MP5C | Z | -6.615 | 5.5 |
| 117 | MP5C | Mx | -.004 | 5.5 |
| 118 | GPS | X | -.148 | .25 |
| 119 | GPS | Z | -.257 | .25 |
| 120 | GPS | Mx | 0 | .25 |
| 121 | MP2A | X | -.593 | 8 |
| 122 | MP2A | Z | -1.028 | 8 |
| 123 | MP2A | Mx | -.000459 | 8 |
| 124 | MP2A | X | -.593 | 9 |
| 125 | MP2A | Z | -1.028 | 9 |
| 126 | MP2A | Mx | -.000459 | 9 |
| 127 | MP2A | X | -.593 | 8 |
| 128 | MP2A | Z | -1.028 | 8 |
| 129 | MP2A | Mx | -.001 | 8 |
| 130 | MP2A | X | -.593 | 9 |
| 131 | MP2A | Z | -1.028 | 9 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 132 | MP2A | Mx | -0.001 | 9 |

Member Point Loads (BLC 77 : Lm1)

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | M105 | Y | -500 | 0 |

Member Point Loads (BLC 78 : Lm2)

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | M111 | Y | -500 | 0 |

Member Point Loads (BLC 79 : Lv1)

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | M99 | Y | -250 | %50 |

Member Point Loads (BLC 80 : Lv2)

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | M99 | Y | -250 | %100 |

Member Point Loads (BLC 81 : Antenna Ev)

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Y | -1.357 | 5.25 |
| 2 | MP2A | My | -.000825 | 5.25 |
| 3 | MP2A | Mz | .000773 | 5.25 |
| 4 | MP2A | Y | -1.357 | 9.5 |
| 5 | MP2A | My | -.000825 | 9.5 |
| 6 | MP2A | Mz | .000773 | 9.5 |
| 7 | MP2B | Y | -1.357 | 5.25 |
| 8 | MP2B | My | .000135 | 5.25 |
| 9 | MP2B | Mz | -.001 | 5.25 |
| 10 | MP2B | Y | -1.357 | 9.5 |
| 11 | MP2B | My | .000135 | 9.5 |
| 12 | MP2B | Mz | -.001 | 9.5 |
| 13 | MP2C | Y | -1.357 | 5.25 |
| 14 | MP2C | My | .001 | 5.25 |
| 15 | MP2C | Mz | .000135 | 5.25 |
| 16 | MP2C | Y | -1.357 | 9.5 |
| 17 | MP2C | My | .001 | 9.5 |
| 18 | MP2C | Mz | .000135 | 9.5 |
| 19 | MP2A | Y | -1.357 | 5.25 |
| 20 | MP2A | My | -.000511 | 5.25 |
| 21 | MP2A | Mz | -.001 | 5.25 |
| 22 | MP2A | Y | -1.357 | 9.5 |
| 23 | MP2A | My | -.000511 | 9.5 |
| 24 | MP2A | Mz | -.001 | 9.5 |
| 25 | MP2B | Y | -1.357 | 5.25 |
| 26 | MP2B | My | .001 | 5.25 |
| 27 | MP2B | Mz | .000444 | 5.25 |
| 28 | MP2B | Y | -1.357 | 9.5 |
| 29 | MP2B | My | .001 | 9.5 |
| 30 | MP2B | Mz | .000444 | 9.5 |
| 31 | MP2C | Y | -1.357 | 5.25 |
| 32 | MP2C | My | -.000444 | 5.25 |
| 33 | MP2C | Mz | .001 | 5.25 |
| 34 | MP2C | Y | -1.357 | 9.5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 35 | MP2C | My | -0.00444 | 9.5 |
| 36 | MP2C | Mz | .001 | 9.5 |
| 37 | MP4A | Y | -1.867 | 6.75 |
| 38 | MP4A | My | -0.0092 | 6.75 |
| 39 | MP4A | Mz | -0.00162 | 6.75 |
| 40 | MP4A | Y | -1.867 | 8 |
| 41 | MP4A | My | -0.0092 | 8 |
| 42 | MP4A | Mz | -0.00162 | 8 |
| 43 | MP4B | Y | -1.867 | 6.75 |
| 44 | MP4B | My | .000809 | 6.75 |
| 45 | MP4B | Mz | -0.00467 | 6.75 |
| 46 | MP4B | Y | -1.867 | 8 |
| 47 | MP4B | My | .000809 | 8 |
| 48 | MP4B | Mz | -0.00467 | 8 |
| 49 | MP4C | Y | -1.867 | 6.75 |
| 50 | MP4C | My | .000467 | 6.75 |
| 51 | MP4C | Mz | .000809 | 6.75 |
| 52 | MP4C | Y | -1.867 | 8 |
| 53 | MP4C | My | .000467 | 8 |
| 54 | MP4C | Mz | .000809 | 8 |
| 55 | MP2A | Y | -.566 | 6 |
| 56 | MP2A | My | .000246 | 6 |
| 57 | MP2A | Mz | .000235 | 6 |
| 58 | MP2B | Y | -.566 | 6 |
| 59 | MP2B | My | -.000339 | 6 |
| 60 | MP2B | Mz | -2.2e-5 | 6 |
| 61 | MP2C | Y | -.566 | 6 |
| 62 | MP2C | My | 2.2e-5 | 6 |
| 63 | MP2C | Mz | -.000339 | 6 |
| 64 | MP2A | Y | -3.619 | 6 |
| 65 | MP2A | My | .002 | 6 |
| 66 | MP2A | Mz | 0 | 6 |
| 67 | MP2B | Y | -3.619 | 6 |
| 68 | MP2B | My | -.002 | 6 |
| 69 | MP2B | Mz | .000905 | 6 |
| 70 | MP2C | Y | -3.619 | 6 |
| 71 | MP2C | My | -.000905 | 6 |
| 72 | MP2C | Mz | -.002 | 6 |
| 73 | R1 | Y | -3.014 | 10.5 |
| 74 | R1 | My | 0 | 10.5 |
| 75 | R1 | Mz | 0 | 10.5 |
| 76 | R2 | Y | -3.014 | 10.5 |
| 77 | R2 | My | 0 | 10.5 |
| 78 | R2 | Mz | 0 | 10.5 |
| 79 | R3 | Y | -3.014 | 10.5 |
| 80 | R3 | My | 0 | 10.5 |
| 81 | R3 | Mz | 0 | 10.5 |
| 82 | MP1A | Y | -.45 | .5 |
| 83 | MP1A | My | -.000225 | .5 |
| 84 | MP1A | Mz | 0 | .5 |
| 85 | MP1A | Y | -.45 | 5.5 |
| 86 | MP1A | My | -.000225 | 5.5 |
| 87 | MP1A | Mz | 0 | 5.5 |
| 88 | MP1B | Y | -.45 | .5 |
| 89 | MP1B | My | .000113 | .5 |
| 90 | MP1B | Mz | -0.000195 | .5 |
| 91 | MP1B | Y | -.45 | 5.5 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 92 | MP1B | My | .000113 | 5.5 |
| 93 | MP1B | Mz | -.000195 | 5.5 |
| 94 | MP1C | Y | -.45 | .5 |
| 95 | MP1C | My | .000113 | .5 |
| 96 | MP1C | Mz | .000195 | .5 |
| 97 | MP1C | Y | -.45 | 5.5 |
| 98 | MP1C | My | .000113 | 5.5 |
| 99 | MP1C | Mz | .000195 | 5.5 |
| 100 | MP5A | Y | -.45 | .5 |
| 101 | MP5A | My | -.000225 | .5 |
| 102 | MP5A | Mz | 0 | .5 |
| 103 | MP5A | Y | -.45 | 5.5 |
| 104 | MP5A | My | -.000225 | 5.5 |
| 105 | MP5A | Mz | 0 | 5.5 |
| 106 | MP5B | Y | -.45 | .5 |
| 107 | MP5B | My | .000113 | .5 |
| 108 | MP5B | Mz | -.000195 | .5 |
| 109 | MP5B | Y | -.45 | 5.5 |
| 110 | MP5B | My | .000113 | 5.5 |
| 111 | MP5B | Mz | -.000195 | 5.5 |
| 112 | MP5C | Y | -.45 | .5 |
| 113 | MP5C | My | .000113 | .5 |
| 114 | MP5C | Mz | .000195 | .5 |
| 115 | MP5C | Y | -.45 | 5.5 |
| 116 | MP5C | My | .000113 | 5.5 |
| 117 | MP5C | Mz | .000195 | 5.5 |
| 118 | GPS | Y | -.039 | .25 |
| 119 | GPS | My | 0 | .25 |
| 120 | GPS | Mz | 0 | .25 |
| 121 | MP2A | Y | -.377 | 8 |
| 122 | MP2A | My | .000393 | 8 |
| 123 | MP2A | Mz | -5.8e-5 | 8 |
| 124 | MP2A | Y | -.377 | 9 |
| 125 | MP2A | My | .000393 | 9 |
| 126 | MP2A | Mz | -5.8e-5 | 9 |
| 127 | MP2A | Y | -.377 | 8 |
| 128 | MP2A | My | .00035 | 8 |
| 129 | MP2A | Mz | .000189 | 8 |
| 130 | MP2A | Y | -.377 | 9 |
| 131 | MP2A | My | .00035 | 9 |
| 132 | MP2A | Mz | .000189 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Z | -3.393 | 5.25 |
| 2 | MP2A | Mx | -.002 | 5.25 |
| 3 | MP2A | Z | -3.393 | 9.5 |
| 4 | MP2A | Mx | -.002 | 9.5 |
| 5 | MP2B | Z | -3.393 | 5.25 |
| 6 | MP2B | Mx | .003 | 5.25 |
| 7 | MP2B | Z | -3.393 | 9.5 |
| 8 | MP2B | Mx | .003 | 9.5 |
| 9 | MP2C | Z | -3.393 | 5.25 |
| 10 | MP2C | Mx | -.000338 | 5.25 |
| 11 | MP2C | Z | -3.393 | 9.5 |
| 12 | MP2C | Mx | -.000338 | 9.5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 13 | MP2A | Z | -3.393 | 5.25 |
| 14 | MP2A | Mx | .003 | 5.25 |
| 15 | MP2A | Z | -3.393 | 9.5 |
| 16 | MP2A | Mx | .003 | 9.5 |
| 17 | MP2B | Z | -3.393 | 5.25 |
| 18 | MP2B | Mx | -.001 | 5.25 |
| 19 | MP2B | Z | -3.393 | 9.5 |
| 20 | MP2B | Mx | -.001 | 9.5 |
| 21 | MP2C | Z | -3.393 | 5.25 |
| 22 | MP2C | Mx | -.003 | 5.25 |
| 23 | MP2C | Z | -3.393 | 9.5 |
| 24 | MP2C | Mx | -.003 | 9.5 |
| 25 | MP4A | Z | -4.669 | 6.75 |
| 26 | MP4A | Mx | .000405 | 6.75 |
| 27 | MP4A | Z | -4.669 | 8 |
| 28 | MP4A | Mx | .000405 | 8 |
| 29 | MP4B | Z | -4.669 | 6.75 |
| 30 | MP4B | Mx | .001 | 6.75 |
| 31 | MP4B | Z | -4.669 | 8 |
| 32 | MP4B | Mx | .001 | 8 |
| 33 | MP4C | Z | -4.669 | 6.75 |
| 34 | MP4C | Mx | -.002 | 6.75 |
| 35 | MP4C | Z | -4.669 | 8 |
| 36 | MP4C | Mx | -.002 | 8 |
| 37 | MP2A | Z | -1.415 | 6 |
| 38 | MP2A | Mx | -.000587 | 6 |
| 39 | MP2B | Z | -1.415 | 6 |
| 40 | MP2B | Mx | 5.5e-5 | 6 |
| 41 | MP2C | Z | -1.415 | 6 |
| 42 | MP2C | Mx | .000849 | 6 |
| 43 | MP2A | Z | -9.048 | 6 |
| 44 | MP2A | Mx | 0 | 6 |
| 45 | MP2B | Z | -9.048 | 6 |
| 46 | MP2B | Mx | -.002 | 6 |
| 47 | MP2C | Z | -9.048 | 6 |
| 48 | MP2C | Mx | .004 | 6 |
| 49 | R1 | Z | -7.536 | 10.5 |
| 50 | R1 | Mx | 0 | 10.5 |
| 51 | R2 | Z | -7.536 | 10.5 |
| 52 | R2 | Mx | 0 | 10.5 |
| 53 | R3 | Z | -7.536 | 10.5 |
| 54 | R3 | Mx | 0 | 10.5 |
| 55 | MP1A | Z | -1.126 | .5 |
| 56 | MP1A | Mx | 0 | .5 |
| 57 | MP1A | Z | -1.126 | 5.5 |
| 58 | MP1A | Mx | 0 | 5.5 |
| 59 | MP1B | Z | -1.126 | .5 |
| 60 | MP1B | Mx | .000487 | .5 |
| 61 | MP1B | Z | -1.126 | 5.5 |
| 62 | MP1B | Mx | .000487 | 5.5 |
| 63 | MP1C | Z | -1.126 | .5 |
| 64 | MP1C | Mx | -.000487 | .5 |
| 65 | MP1C | Z | -1.126 | 5.5 |
| 66 | MP1C | Mx | -.000487 | 5.5 |
| 67 | MP5A | Z | -1.126 | .5 |
| 68 | MP5A | Mx | 0 | .5 |
| 69 | MP5A | Z | -1.126 | 5.5 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 70 | MP5A | Mx | 0 | 5.5 |
| 71 | MP5B | Z | -1.126 | .5 |
| 72 | MP5B | Mx | .000487 | .5 |
| 73 | MP5B | Z | -1.126 | 5.5 |
| 74 | MP5B | Mx | .000487 | 5.5 |
| 75 | MP5C | Z | -1.126 | .5 |
| 76 | MP5C | Mx | -.000487 | .5 |
| 77 | MP5C | Z | -1.126 | 5.5 |
| 78 | MP5C | Mx | -.000487 | 5.5 |
| 79 | GPS | Z | -.096 | .25 |
| 80 | GPS | Mx | 0 | .25 |
| 81 | MP2A | Z | -.943 | 8 |
| 82 | MP2A | Mx | .000146 | 8 |
| 83 | MP2A | Z | -.943 | 9 |
| 84 | MP2A | Mx | .000146 | 9 |
| 85 | MP2A | Z | -.943 | 8 |
| 86 | MP2A | Mx | -.000473 | 8 |
| 87 | MP2A | Z | -.943 | 9 |
| 88 | MP2A | Mx | -.000473 | 9 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 3.393 | 5.25 |
| 2 | MP2A | Mx | -.002 | 5.25 |
| 3 | MP2A | X | 3.393 | 9.5 |
| 4 | MP2A | Mx | -.002 | 9.5 |
| 5 | MP2B | X | 3.393 | 5.25 |
| 6 | MP2B | Mx | .000338 | 5.25 |
| 7 | MP2B | X | 3.393 | 9.5 |
| 8 | MP2B | Mx | .000338 | 9.5 |
| 9 | MP2C | X | 3.393 | 5.25 |
| 10 | MP2C | Mx | .003 | 5.25 |
| 11 | MP2C | X | 3.393 | 9.5 |
| 12 | MP2C | Mx | .003 | 9.5 |
| 13 | MP2A | X | 3.393 | 5.25 |
| 14 | MP2A | Mx | -.001 | 5.25 |
| 15 | MP2A | X | 3.393 | 9.5 |
| 16 | MP2A | Mx | -.001 | 9.5 |
| 17 | MP2B | X | 3.393 | 5.25 |
| 18 | MP2B | Mx | .003 | 5.25 |
| 19 | MP2B | X | 3.393 | 9.5 |
| 20 | MP2B | Mx | .003 | 9.5 |
| 21 | MP2C | X | 3.393 | 5.25 |
| 22 | MP2C | Mx | -.001 | 5.25 |
| 23 | MP2C | X | 3.393 | 9.5 |
| 24 | MP2C | Mx | -.001 | 9.5 |
| 25 | MP4A | X | 4.669 | 6.75 |
| 26 | MP4A | Mx | -.002 | 6.75 |
| 27 | MP4A | X | 4.669 | 8 |
| 28 | MP4A | Mx | -.002 | 8 |
| 29 | MP4B | X | 4.669 | 6.75 |
| 30 | MP4B | Mx | .002 | 6.75 |
| 31 | MP4B | X | 4.669 | 8 |
| 32 | MP4B | Mx | .002 | 8 |
| 33 | MP4C | X | 4.669 | 6.75 |
| 34 | MP4C | Mx | .001 | 6.75 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 35 | MP4C | X | 4.669 | 8 |
| 36 | MP4C | Mx | .001 | 8 |
| 37 | MP2A | X | 1.415 | 6 |
| 38 | MP2A | Mx | .000615 | 6 |
| 39 | MP2B | X | 1.415 | 6 |
| 40 | MP2B | Mx | -.000849 | 6 |
| 41 | MP2C | X | 1.415 | 6 |
| 42 | MP2C | Mx | 5.5e-5 | 6 |
| 43 | MP2A | X | 9.048 | 6 |
| 44 | MP2A | Mx | .005 | 6 |
| 45 | MP2B | X | 9.048 | 6 |
| 46 | MP2B | Mx | -.004 | 6 |
| 47 | MP2C | X | 9.048 | 6 |
| 48 | MP2C | Mx | -.002 | 6 |
| 49 | R1 | X | 7.536 | 10.5 |
| 50 | R1 | Mx | 0 | 10.5 |
| 51 | R2 | X | 7.536 | 10.5 |
| 52 | R2 | Mx | 0 | 10.5 |
| 53 | R3 | X | 7.536 | 10.5 |
| 54 | R3 | Mx | 0 | 10.5 |
| 55 | MP1A | X | 1.126 | .5 |
| 56 | MP1A | Mx | -.000563 | .5 |
| 57 | MP1A | X | 1.126 | 5.5 |
| 58 | MP1A | Mx | -.000563 | 5.5 |
| 59 | MP1B | X | 1.126 | .5 |
| 60 | MP1B | Mx | .000281 | .5 |
| 61 | MP1B | X | 1.126 | 5.5 |
| 62 | MP1B | Mx | .000281 | 5.5 |
| 63 | MP1C | X | 1.126 | .5 |
| 64 | MP1C | Mx | .000281 | .5 |
| 65 | MP1C | X | 1.126 | 5.5 |
| 66 | MP1C | Mx | .000281 | 5.5 |
| 67 | MP5A | X | 1.126 | .5 |
| 68 | MP5A | Mx | -.000563 | .5 |
| 69 | MP5A | X | 1.126 | 5.5 |
| 70 | MP5A | Mx | -.000563 | 5.5 |
| 71 | MP5B | X | 1.126 | .5 |
| 72 | MP5B | Mx | .000281 | .5 |
| 73 | MP5B | X | 1.126 | 5.5 |
| 74 | MP5B | Mx | .000281 | 5.5 |
| 75 | MP5C | X | 1.126 | .5 |
| 76 | MP5C | Mx | .000281 | .5 |
| 77 | MP5C | X | 1.126 | 5.5 |
| 78 | MP5C | Mx | .000281 | 5.5 |
| 79 | GPS | X | .096 | .25 |
| 80 | GPS | Mx | 0 | .25 |
| 81 | MP2A | X | .943 | 8 |
| 82 | MP2A | Mx | .000984 | 8 |
| 83 | MP2A | X | .943 | 9 |
| 84 | MP2A | Mx | .000984 | 9 |
| 85 | MP2A | X | .943 | 8 |
| 86 | MP2A | Mx | .000874 | 8 |
| 87 | MP2A | X | .943 | 9 |
| 88 | MP2A | Mx | .000874 | 9 |

Member Area Loads (BLC 39 : Structure D)

| | Joint A | Joint B | Joint C | Joint D | Direction | Distribution | Magnitude[ksf] |
|----|---------|---------|---------|---------|-----------|--------------|----------------|
| 1 | N158 | N47B | N141A | N42A | Y | Two Way | -.005 |
| 2 | N42A | N158 | N162A | N40B | Y | Two Way | -.005 |
| 3 | N158 | N162 | N49 | N46C | Y | Two Way | -.005 |
| 4 | N45A | N162 | N48 | N142A | Y | Two Way | -.005 |
| 5 | N45A | N41B | N161B | N162 | Y | Two Way | -.005 |
| 6 | N88 | N128 | N131 | N89 | Y | Two Way | -.005 |
| 7 | N104 | N109 | N111 | N108 | Y | Two Way | -.005 |
| 8 | N108 | N106 | N129 | N84 | Y | Two Way | -.005 |
| 9 | N129 | N106 | N91 | N88 | Y | Two Way | -.005 |
| 10 | N111 | N107 | N130 | N85 | Y | Two Way | -.005 |
| 11 | N130 | N107 | N90 | N89 | Y | Two Way | -.005 |

Member Area Loads (BLC 40 : Structure Di)

| | Joint A | Joint B | Joint C | Joint D | Direction | Distribution | Magnitude[ksf] |
|----|---------|---------|---------|---------|-----------|--------------|----------------|
| 1 | N158 | N47B | N141A | N42A | Y | Two Way | -.01 |
| 2 | N42A | N158 | N162A | N40B | Y | Two Way | -.01 |
| 3 | N158 | N162 | N49 | N46C | Y | Two Way | -.01 |
| 4 | N45A | N162 | N48 | N142A | Y | Two Way | -.01 |
| 5 | N45A | N41B | N161B | N162 | Y | Two Way | -.01 |
| 6 | N88 | N128 | N131 | N89 | Y | Two Way | -.01 |
| 7 | N104 | N109 | N111 | N108 | Y | Two Way | -.01 |
| 8 | N108 | N106 | N129 | N84 | Y | Two Way | -.01 |
| 9 | N129 | N106 | N91 | N88 | Y | Two Way | -.01 |
| 10 | N111 | N107 | N130 | N85 | Y | Two Way | -.01 |
| 11 | N130 | N107 | N90 | N89 | Y | Two Way | -.01 |

Member Area Loads (BLC 84 : Structure Ev)

| | Joint A | Joint B | Joint C | Joint D | Direction | Distribution | Magnitude[ksf] |
|----|---------|---------|---------|---------|-----------|--------------|----------------|
| 1 | N158 | N47B | N141A | N42A | Y | Two Way | -.000223 |
| 2 | N42A | N158 | N162A | N40B | Y | Two Way | -.000223 |
| 3 | N158 | N162 | N49 | N46C | Y | Two Way | -.000223 |
| 4 | N45A | N162 | N48 | N142A | Y | Two Way | -.000223 |
| 5 | N45A | N41B | N161B | N162 | Y | Two Way | -.000223 |
| 6 | N88 | N128 | N131 | N89 | Y | Two Way | -.000223 |
| 7 | N104 | N109 | N111 | N108 | Y | Two Way | -.000223 |
| 8 | N108 | N106 | N129 | N84 | Y | Two Way | -.000223 |
| 9 | N129 | N106 | N91 | N88 | Y | Two Way | -.000223 |
| 10 | N111 | N107 | N130 | N85 | Y | Two Way | -.000223 |
| 11 | N130 | N107 | N90 | N89 | Y | Two Way | -.000223 |

Member Area Loads (BLC 85 : Structure Eh (0 Deg))

| | Joint A | Joint B | Joint C | Joint D | Direction | Distribution | Magnitude[ksf] |
|----|---------|---------|---------|---------|-----------|--------------|----------------|
| 1 | N158 | N47B | N141A | N42A | Z | Two Way | -.000557 |
| 2 | N42A | N158 | N162A | N40B | Z | Two Way | -.000557 |
| 3 | N158 | N162 | N49 | N46C | Z | Two Way | -.000557 |
| 4 | N45A | N162 | N48 | N142A | Z | Two Way | -.000557 |
| 5 | N45A | N41B | N161B | N162 | Z | Two Way | -.000557 |
| 6 | N88 | N128 | N131 | N89 | Z | Two Way | -.000557 |
| 7 | N104 | N109 | N111 | N108 | Z | Two Way | -.000557 |
| 8 | N108 | N106 | N129 | N84 | Z | Two Way | -.000557 |
| 9 | N129 | N106 | N91 | N88 | Z | Two Way | -.000557 |
| 10 | N111 | N107 | N130 | N85 | Z | Two Way | -.000557 |
| 11 | N130 | N107 | N90 | N89 | Z | Two Way | -.000557 |



Member Area Loads (BLC 86 : Structure Eh (90 Deg))

| | Joint A | Joint B | Joint C | Joint D | Direction | Distribution | Magnitude[ksf] |
|----|---------|---------|---------|---------|-----------|--------------|----------------|
| 1 | N158 | N47B | N141A | N42A | X | Two Way | .000557 |
| 2 | N42A | N158 | N162A | N40B | X | Two Way | .000557 |
| 3 | N158 | N162 | N49 | N46C | X | Two Way | .000557 |
| 4 | N45A | N162 | N48 | N142A | X | Two Way | .000557 |
| 5 | N45A | N41B | N161B | N162 | X | Two Way | .000557 |
| 6 | N88 | N128 | N131 | N89 | X | Two Way | .000557 |
| 7 | N104 | N109 | N111 | N108 | X | Two Way | .000557 |
| 8 | N108 | N106 | N129 | N84 | X | Two Way | .000557 |
| 9 | N129 | N106 | N91 | N88 | X | Two Way | .000557 |
| 10 | N111 | N107 | N130 | N85 | X | Two Way | .000557 |
| 11 | N130 | N107 | N90 | N89 | X | Two Way | .000557 |

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

| Member | Shape | Code C... | Loc[ft] | LC Shear ... | Loc[ft] | Dir | LC phi*Pnc [lb] | phi*Pnt [lb] | phi*Mn y-... | phi*Mn z-... | Cb | Eqn | | | |
|--------|-------|-----------|---------|--------------|---------|------|-----------------|--------------|--------------|--------------|--------|--------|--------|------|-------|
| 1 | M73 | C6X8.2 | .559 | 12.37 | 3 | .095 | 11.589 | y | 2 | 6897.855 | 77436 | 2.108 | 9.679 | 1... | H1-1a |
| 2 | M76 | HSS4X4X5 | .229 | 0 | 20 | .066 | 0 | y | 21 | 145160.6... | 169740 | 19.285 | 19.285 | 2... | H1-1b |
| 3 | M77 | C6X8.2 | .276 | 2.828 | 20 | .051 | 4.595 | y | 21 | 33313.122 | 77436 | 2.108 | 13.932 | 1... | H1-1b |
| 4 | M78 | PL1/4x3.5 | .370 | .396 | 20 | .105 | .396 | y | 14 | 23029.29 | 28350 | .149 | 2.068 | 1... | H1-1b |
| 5 | M79 | PL1/4x3.5 | .319 | 0 | 12 | .110 | 0 | y | 24 | 23029.274 | 28350 | .149 | 2.068 | 1... | H1-1b |
| 6 | M84 | PL1/2x9 | .225 | .625 | 15 | .136 | .625 | y | 15 | 82502.914 | 145800 | 1.519 | 27.338 | 1... | H1-1b |
| 7 | M11 | HSS4X4X5 | .235 | 0 | 16 | .051 | 0 | y | 14 | 145160.6... | 169740 | 19.285 | 19.285 | 2... | H1-1b |
| 8 | M20 | HSS4X4X5 | .236 | 0 | 24 | .058 | 0 | y | 13 | 145160.6... | 169740 | 19.285 | 19.285 | 2... | H1-1b |
| 9 | M24B | L4X4X4 | .351 | 2.99 | 24 | .028 | 3.047 | y | 24 | 41949.132 | 62532 | 3.138 | 6.226 | 1... | H2-1 |
| 10 | M26B | L4X4X4 | .352 | 2.99 | 14 | .027 | 3.047 | z | 14 | 41949.132 | 62532 | 3.138 | 6.21 | 1... | H2-1 |
| 11 | M27A | PL1/4x3.5 | .473 | 0 | 24 | .043 | 0 | y | 24 | 23525.106 | 28350 | .149 | 2.068 | 1... | H1-1b |
| 12 | M28A | PL1/4x3.5 | .401 | 0 | 14 | .041 | 0 | y | 14 | 23525.106 | 28350 | .149 | 2.068 | 1... | H1-1b |
| 13 | M23 | PL1/2x9 | .270 | .625 | 23 | .123 | .625 | y | 22 | 82502.914 | 145800 | 1.519 | 27.338 | 1... | H1-1b |
| 14 | M27 | PL1/2x9 | .265 | .625 | 15 | .121 | .625 | y | 16 | 82502.914 | 145800 | 1.519 | 27.338 | 1... | H1-1b |
| 15 | M28 | C6X8.2 | .589 | 12.37 | 11 | .100 | .911 | y | 7 | 6897.855 | 77436 | 2.108 | 9.196 | 1... | H1-1a |
| 16 | M29A | C6X8.2 | .606 | 12.37 | 7 | .099 | 11.589 | y | 7 | 6897.855 | 77436 | 2.108 | 8.698 | 1... | H1-1a |
| 17 | M30 | PL1/4x3.5 | .816 | .5 | 3 | .254 | 0 | y | 17 | 20347.684 | 28350 | .149 | 2.068 | 1... | H1-1b |
| 18 | M32 | PL1/4x3.5 | .787 | .5 | 11 | .256 | 0 | y | 21 | 20347.684 | 28350 | .149 | 2.068 | 1... | H1-1b |
| 19 | M34 | PL1/4x3.5 | .845 | .5 | 11 | .229 | 0 | y | 24 | 20347.684 | 28350 | .149 | 2.068 | 1... | H1-1b |
| 20 | M36 | PL1/4x3.5 | .886 | .5 | 7 | .233 | 0 | y | 18 | 20347.684 | 28350 | .149 | 2.068 | 1... | H1-1b |
| 21 | M38 | PL1/4x3.5 | .896 | .5 | 7 | .234 | 0 | y | 20 | 20347.684 | 28350 | .149 | 2.068 | 1... | H1-1b |
| 22 | M40 | PL1/4x3.5 | .820 | .5 | 3 | .232 | 0 | y | 13 | 20347.684 | 28350 | .149 | 2.068 | 1... | H1-1b |
| 23 | R2 | PIPE 2.0 | .840 | 15.339 | 5 | .216 | 15.339 | | 2 | 3923.74 | 32130 | 1.872 | 1.872 | 2... | H1-1a |
| 24 | R1 | PIPE 2.0 | .824 | 15.339 | 1 | .216 | 15.339 | | 11 | 3923.74 | 32130 | 1.872 | 1.872 | 4... | H1-1a |
| 25 | R3 | PIPE 2.0 | .855 | 15.339 | 9 | .217 | 15.339 | | 7 | 3923.74 | 32130 | 1.872 | 1.872 | 2... | H1-1a |
| 26 | M53 | C6X8.2 | .184 | .13 | 11 | .083 | 11.589 | y | 22 | 6897.855 | 77436 | 2.108 | 10.715 | 1... | H1-1b |
| 27 | M54 | HSS4X4X5 | .230 | 0 | 19 | .060 | 0 | y | 19 | 145160.6... | 169740 | 19.285 | 19.285 | 2... | H1-1b |
| 28 | M55 | C6X8.2 | .271 | 2.828 | 19 | .054 | 1.06 | y | 15 | 33313.122 | 77436 | 2.108 | 13.932 | 1... | H1-1b |
| 29 | M56 | PL1/4x3.5 | .275 | .396 | 13 | .119 | .396 | y | 14 | 23029.29 | 28350 | .149 | 2.068 | 1... | H1-1b |
| 30 | M57 | PL1/4x3.5 | .345 | 0 | 19 | .113 | 0 | y | 24 | 23029.274 | 28350 | .149 | 2.068 | 1... | H1-1b |
| 31 | M62 | PL1/2x9 | .217 | .625 | 17 | .130 | .625 | y | 14 | 82502.914 | 145800 | 1.519 | 27.338 | 1... | H1-1b |
| 32 | M63 | HSS4X4X5 | .240 | 0 | 15 | .058 | 0 | y | 15 | 145160.6... | 169740 | 19.285 | 19.285 | 2... | H1-1b |
| 33 | M64 | HSS4X4X5 | .238 | 0 | 23 | .051 | 0 | y | 23 | 145160.6... | 169740 | 19.285 | 19.285 | 2... | H1-1b |
| 34 | M66 | L4X4X4 | .369 | 2.99 | 23 | .029 | 3.047 | y | 23 | 41949.132 | 62532 | 3.138 | 6.208 | 1... | H2-1 |
| 35 | M68 | L4X4X4 | .369 | 2.99 | 15 | .031 | 3.047 | z | 15 | 41949.132 | 62532 | 3.138 | 6.224 | 1... | H2-1 |
| 36 | M69 | PL1/4x3.5 | .396 | 0 | 23 | .040 | 0 | y | 24 | 23525.106 | 28350 | .149 | 2.068 | 1... | H1-1b |
| 37 | M70 | PL1/4x3.5 | .471 | 0 | 15 | .042 | 0 | y | 23 | 23525.106 | 28350 | .149 | 2.068 | 1... | H1-1b |
| 38 | M75 | PL1/2x9 | .264 | .625 | 17 | .110 | .625 | y | 20 | 82502.914 | 145800 | 1.519 | 27.338 | 1... | H1-1b |
| 39 | M79A | PL1/2x9 | .270 | .625 | 21 | .113 | .625 | y | 18 | 82502.914 | 145800 | 1.519 | 27.338 | 1... | H1-1b |
| 40 | M80A | C6X8.2 | .254 | 6.38 | 21 | .091 | 11.589 | y | 18 | 6897.855 | 77436 | 2.108 | 10.065 | 1... | H1-1b |
| 41 | M81A | C6X8.2 | .262 | 6.12 | 17 | .085 | .911 | y | 21 | 6897.855 | 77436 | 2.108 | 10.026 | 1... | H1-1b |



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

| Member | Shape | Code C... | Loc[ft] | LC | Shear ... | Loc[ft] | Dir | LC | phi*Pnc [lb] | phi*Pnt [lb] | phi*Mn y... | phi*Mn z... | Cb | Eqn | |
|--------|-------|------------|---------|--------|-----------|---------|--------|----|--------------|--------------|-------------|-------------|-------|------|-------|
| 42 | M82A | PL1/4x3.5 | .566 | .5 | 4 | .272 | 0 | y | 23 | 20347.684 | 28350 | .149 | 1.948 | 1... | H1-1b |
| 43 | M83A | PL1/4x3.5 | .551 | .5 | 10 | .272 | 0 | y | 15 | 20347.684 | 28350 | .149 | 1.948 | 1... | H1-1b |
| 44 | M84A | PL1/4x3.5 | .586 | .5 | 12 | .246 | 0 | y | 19 | 20347.684 | 28350 | .149 | 1.944 | 1... | H1-1b |
| 45 | M85 | PL1/4x3.5 | .567 | .5 | 6 | .246 | 0 | y | 23 | 20347.684 | 28350 | .149 | 1.954 | 1... | H1-1b |
| 46 | M86 | PL1/4x3.5 | .564 | .5 | 2 | .249 | 0 | y | 15 | 20347.684 | 28350 | .149 | 2.068 | 1... | H1-1b |
| 47 | M87 | PL1/4x3.5 | .569 | .5 | 2 | .244 | 0 | y | 19 | 20347.684 | 28350 | .149 | 1.945 | 1... | H1-1b |
| 48 | M99 | PIPE 2.0 | .779 | 7.5 | 11 | .108 | 7.5 | | 12 | 4371.821 | 32130 | 1.872 | 1.872 | 1... | H1-1a |
| 49 | M100 | PIPE 2.0 | .350 | 9.844 | 8 | .129 | 5.156 | | 1 | 4371.821 | 32130 | 1.872 | 1.872 | 1... | H1-1b |
| 50 | M101 | PIPE 2.0 | .657 | 3 | 5 | .161 | 3 | | 6 | 20866.733 | 32130 | 1.872 | 1.872 | 1... | H1-1b |
| 51 | MP1A | PIPE 2.0 | .391 | 4.302 | 7 | .136 | 6.125 | | 50 | 17855.085 | 32130 | 1.872 | 1.872 | 4... | H1-1b |
| 52 | MP2A | PIPE 2.5 | .319 | 5.25 | 7 | .105 | 7 | | 8 | 20573.263 | 50715 | 3.596 | 3.596 | 2... | H1-1b |
| 53 | MP3A | PIPE 2.0 | .201 | 2.5 | 12 | .038 | 5.5 | | 7 | 14916.096 | 32130 | 1.872 | 1.872 | 2.7 | H1-1b |
| 54 | MP4A | PIPE 2.0 | .386 | 7 | 2 | .075 | 7 | | 3 | 8922.084 | 32130 | 1.872 | 1.872 | 2... | H1-1b |
| 55 | MP5A | PIPE 2.0 | .324 | 4.812 | 7 | .109 | 6.271 | | 18 | 17855.085 | 32130 | 1.872 | 1.872 | 4... | H1-1b |
| 56 | M121 | PIPE 2.0 | .760 | 7.5 | 7 | .106 | 7.5 | | 8 | 4371.821 | 32130 | 1.872 | 1.872 | 1... | H1-1a |
| 57 | M122 | PIPE 2.0 | .326 | 9.844 | 4 | .130 | 5.156 | | 9 | 4371.821 | 32130 | 1.872 | 1.872 | 1... | H1-1b |
| 58 | M124 | PIPE 2.0 | .655 | 3 | 1 | .159 | 3 | | 2 | 20866.733 | 32130 | 1.872 | 1.872 | 1... | H1-1b |
| 59 | MP1C | PIPE 2.0 | .387 | 4.302 | 3 | .107 | 6.271 | | 16 | 17855.085 | 32130 | 1.872 | 1.872 | 2... | H1-1b |
| 60 | MP2C | PIPE 2.5 | .314 | 5.25 | 3 | .108 | 7 | | 4 | 20573.263 | 50715 | 3.596 | 3.596 | 1... | H1-1b |
| 61 | MP3C | PIPE 2.0 | .202 | 2.5 | 8 | .035 | 5.5 | | 3 | 14916.096 | 32130 | 1.872 | 1.872 | 3... | H1-1b |
| 62 | MP4C | PIPE 2.0 | .373 | 7 | 10 | .073 | 7 | | 11 | 8922.084 | 32130 | 1.872 | 1.872 | 1... | H1-1b |
| 63 | MP5C | PIPE 2.0 | .322 | 4.812 | 3 | .106 | 6.271 | | 14 | 17855.085 | 32130 | 1.872 | 1.872 | 2... | H1-1b |
| 64 | M144 | PIPE 2.0 | .737 | 7.5 | 3 | .101 | 7.5 | | 4 | 4371.821 | 32130 | 1.872 | 1.872 | 1... | H1-1a |
| 65 | M145 | PIPE 2.0 | .325 | 9.844 | 12 | .130 | 5.156 | | 5 | 4371.821 | 32130 | 1.872 | 1.872 | 1... | H1-1b |
| 66 | M147 | PIPE 2.0 | .626 | 3 | 9 | .148 | 3 | | 10 | 20866.733 | 32130 | 1.872 | 1.872 | 1... | H1-1b |
| 67 | MP1B | PIPE 2.0 | .373 | 4.302 | 11 | .107 | 6.271 | | 24 | 17855.085 | 32130 | 1.872 | 1.872 | 2... | H1-1b |
| 68 | MP2B | PIPE 2.5 | .305 | 5.25 | 11 | .096 | 7 | | 12 | 20573.263 | 50715 | 3.596 | 3.596 | 1... | H1-1b |
| 69 | MP3B | PIPE 2.0 | .186 | 2.5 | 4 | .036 | 5.5 | | 6 | 14916.096 | 32130 | 1.872 | 1.872 | 3... | H1-1b |
| 70 | MP4B | PIPE 2.0 | .384 | 7 | 6 | .074 | 7 | | 7 | 8922.084 | 32130 | 1.872 | 1.872 | 1... | H1-1b |
| 71 | MP5B | PIPE 2.0 | .324 | 4.812 | 11 | .106 | 6.271 | | 22 | 17855.085 | 32130 | 1.872 | 1.872 | 2... | H1-1b |
| 72 | M169 | L1.5x1.5x3 | .276 | 3.45 | 1 | .016 | 6.899 | z | 7 | 1491.22 | 17074.8 | .292 | .503 | 1... | H2-1 |
| 73 | M170 | L1.5x1.5x3 | .271 | 3.45 | 1 | .008 | 0 | y | 7 | 1491.22 | 17074.8 | .292 | .503 | 1... | H2-1 |
| 74 | M175 | L1.5x1.5x3 | .275 | 3.45 | 9 | .015 | 0 | z | 3 | 1491.22 | 17074.8 | .292 | .503 | 1... | H2-1 |
| 75 | M176 | L1.5x1.5x3 | .271 | 3.45 | 9 | .008 | 0 | y | 3 | 1491.22 | 17074.8 | .292 | .503 | 1... | H2-1 |
| 76 | M181 | L1.5x1.5x3 | .276 | 3.45 | 5 | .014 | 6.899 | z | 11 | 1491.22 | 17074.8 | .292 | .503 | 1... | H2-1 |
| 77 | M182 | L1.5x1.5x3 | .271 | 3.45 | 5 | .008 | 6.899 | y | 11 | 1491.22 | 17074.8 | .292 | .503 | 1... | H2-1 |
| 78 | M183 | PIPE 2.0 | .271 | 12.085 | 2 | .038 | 0 | | 9 | 6734.662 | 32130 | 1.872 | 1.872 | 2... | H1-1b |
| 79 | M184 | PIPE 2.0 | .265 | 12.085 | 4 | .045 | 12.085 | | 3 | 6734.662 | 32130 | 1.872 | 1.872 | 2... | H1-1b |
| 80 | M185 | PIPE 2.0 | .275 | 12.085 | 12 | .043 | 12.085 | | 11 | 6734.662 | 32130 | 1.872 | 1.872 | 2... | H1-1b |
| 81 | M186 | PIPE 2.0 | .274 | 12.085 | 6 | .040 | 0 | | 1 | 6734.662 | 32130 | 1.872 | 1.872 | 2... | H1-1b |
| 82 | M187 | PIPE 2.0 | .277 | 12.085 | 8 | .046 | 12.085 | | 7 | 6734.662 | 32130 | 1.872 | 1.872 | 2... | H1-1b |
| 83 | M188 | PIPE 2.0 | .259 | 12.085 | 10 | .037 | 0 | | 5 | 6734.662 | 32130 | 1.872 | 1.872 | 2... | H1-1b |
| 84 | GPS | PIPE 1.25 | .007 | .75 | 9 | .003 | .75 | | 2 | 18609.195 | 19687.5 | .801 | .801 | 1... | 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 | N153A | max | 685.808 | 12 | 2585.009 | 19 | 8361.339 | 13 | -.312 | 1 | .696 | 12 | .401 | 3 |
| 2 | | min | -498.267 | 6 | 703.352 | 1 | -396.31 | 7 | -3.572 | 19 | -.433 | 6 | -.459 | 9 |
| 3 | N22 | max | 7418.298 | 21 | 1902.948 | 14 | 399.876 | 2 | 1.955 | 14 | .654 | 4 | 3.162 | 16 |
| 4 | | min | -240.244 | 3 | 512.69 | 8 | -4375.652 | 20 | -.036 | 8 | -.422 | 10 | .202 | 9 |
| 5 | N40 | max | 200.341 | 11 | 1936.443 | 24 | 518.808 | 12 | 2.025 | 24 | .72 | 12 | -.146 | 5 |
| 6 | | min | -7633.903 | 17 | 523.237 | 6 | -4133.108 | 18 | -.005 | 6 | -.445 | 6 | -3.085 | 23 |
| 7 | N86 | max | 455.561 | 10 | 2534.489 | 19 | 7743.225 | 13 | .229 | 1 | .289 | 10 | .074 | 4 |
| 8 | | min | -644.876 | 4 | 664.452 | 1 | 1679.877 | 7 | -3.649 | 19 | -.556 | 4 | -.019 | 9 |
| 9 | N100 | max | 7066.066 | 21 | 2053.682 | 15 | -579.095 | 2 | 2.101 | 15 | .492 | 6 | 3.234 | 15 |



Company : Colliers Engineering & Design
 Designer : ILR
 Job Number : Project No. 10208049
 Model Name : 5000385364-VZW_MT_LO_H

Aug 2, 2023
 4:47 PM
 Checked By: DX

Envelope Joint Reactions (Continued)

| 10 | Joint | | X [lb] | LC | Y [lb] | LC | Z [lb] | LC | MX [k-ft] | LC | MY [k-ft] | LC | MZ [k-ft] | LC |
|----|---------|-----|-----------|----|-----------|----|------------|----|-----------|----|-----------|----|-----------|----|
| 10 | | min | 1561.244 | 3 | 427.24 | 9 | -3781.571 | 20 | -.104 | 9 | -.757 | 12 | -.277 | 9 |
| 11 | N102 | max | -1437.872 | 11 | 2002.341 | 23 | -685.139 | 12 | 2.003 | 23 | .509 | 2 | .262 | 5 |
| 12 | | min | -6869.846 | 17 | 406.832 | 5 | -4028.512 | 18 | -.145 | 5 | -.738 | 8 | -3.248 | 23 |
| 13 | Totals: | max | 9790.063 | 10 | 12451.396 | 22 | 10062.305 | 1 | | | | | | |
| 14 | | min | -9790.083 | 4 | 4140.076 | 67 | -10062.299 | 7 | | | | | | |

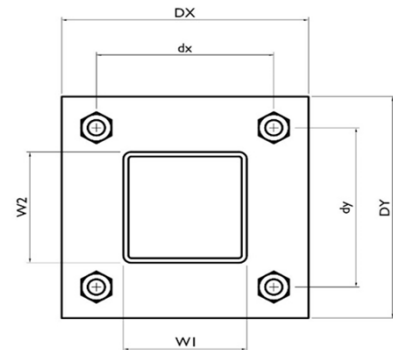
I. Mount-to-Tower Connection Check

Custom Orientation Required

Tower Connection Bolt Checks

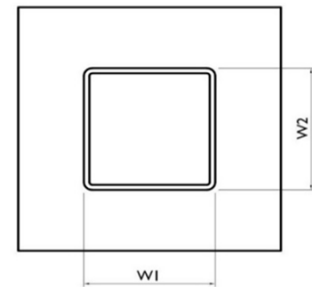
Bolt Orientation

| | |
|--|--------------|
| 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 / bolt (kips): | 3.4 |
| Required Shear Strength / bolt (kips): | 0.6 |
| Tensile Capacity / bolt (kips): | 13.3 |
| Shear Capacity / bolt (kips): | 8.0 |
| Bolt Overall Utilization: | 25.8% |



Tower Connection Baseplate Checks

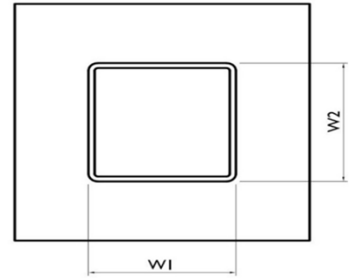
| | |
|-----------------------------------|---------------|
| Connecting Standoff Member Shape: | Rect Tube |
| Weld Stiffener Configuration: | No Stiffeners |
| Plate Width, D_x (in): | 8 |
| Plate Height, D_y (in): | 8 |
| W1 (in): | 4 |
| W2 (in): | 4 |
| Member Thickness (in): | 0.3125 |
| Stiffener location a_1 (in): | |
| Stiffener location b_1 (in): | |
| Stiffener location a_2 (in): | |
| Stiffener location b_2 (in): | |
| F_y (ksi, plate): | 36 |
| Plate Thickness (in): | 0.75 |
| Length of Yield Line, L_y (in): | 5.90 |
| Bolt Eccentricity, e (in): | 1.71 |
| M_u (kip-in): | 5.84 |
| $\Phi * M_n$ (kip-in): | 26.87 |
| Plate Bending Utilization: | 21.7% |



Tower Connection Weld Checks

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

| |
|--------------|
| Yes |
| Rectangle |
| None |
| 4 |
| 4 |
| 4 |
| 16.00 |
| 21.33 |
| 21.33 |
| 85.33 |
| 2.3125 |
| 2.3125 |
| 1.31 |
| 5.57 |
| 23.6% |



Date: **August 17, 2023**



B+T Group
1717 S. Boulder, Suite 300
Tulsa, OK 74119
(918) 587-4630

Subject: **Structural Analysis Report**

Carrier Designation: **Verizon Wireless Co-Locate**
Site Number: 5000385364
Site Name: BRANFORD CT

Crown Castle Designation: **BU Number:** 806360
Site Name: NHV 113 943126
JDE Job Number: 751326
Work Order Number: 2246326
Order Number: 654624 Rev. 0

Engineering Firm Designation: **B+T Group Project Number:** 87395.007.01.0001

Site Data: **180 & 184 North Main Street, Branford, New Haven County, CT**
Latitude 41° 17' 22.77", Longitude -72° 48' 42.22"
110 Foot - Monopole Tower

B+T Group is pleased to submit this "**Structural Analysis Report**" to determine the structural integrity of the above-mentioned tower.

The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC5: Proposed Equipment Configuration

Sufficient Capacity - 45.5%

This analysis utilizes an ultimate 3-second gust wind speed of 121 mph as required by the 2022 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Jennifer Tillson, E.I.

Respectfully submitted by: B+T Engineering, Inc.
COA: PEC.0001564; Expires: 01/02/2024



Chad E. Tuttle, P.E.

tnxTower Report - version 8.1.1.0

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7) APPENDIX C

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1) INTRODUCTION

This tower is a 110 ft. Monopole tower designed by Valmont.

2) ANALYSIS CRITERIA

| | |
|-----------------------------|-----------|
| TIA-222 Revision: | TIA-222-H |
| Risk Category: | II |
| Wind Speed: | 121 mph |
| Exposure Category: | B |
| Topographic Factor: | 1 |
| Ice Thickness: | 1 in |
| Wind Speed with Ice: | 50 mph |
| Service Wind Speed: | 60 mph |

Table 1 - Proposed Equipment Configuration

| Mounting Level (ft) | Center Line Elevation (ft) | Number of Antennas | Antenna Manufacturer | Antenna Model | Number of Feed Lines | Feed Line Size (in) |
|---------------------|----------------------------|--------------------|---------------------------|-----------------------------|----------------------|-----------------------|
| 109.0 | 112.0 | 1 | GPS | GPS_A | 1 | 1/2 |
| | 109.0 | 1 | -- | Platform Mount [LP 714-1] | | |
| 98.0 | 100.0 | 1 | Kaelus | BSF0020F3V1 | 2 6 6 | 1-5/8 1-1/4 7/8 |
| | | 2 | Samsung Telecomm. | MT6407-77A | | |
| | | 3 | Samsung Telecomm. | RFV01U-D1A | | |
| | | 3 | Samsung Telecomm. | RFV01U-D2A | | |
| | 99.0 | 3 | Commscope | CBC78T-DS-43 | | |
| | | 6 | Commscope | JAHH-65B-R3B | | |
| | | 6 | Decibel | DB846F65ZAXY | | |
| | 98.0 | 1 | -- | Sector Mount [15'-SM 201-3] | | |
| 97.0 | 1 | Samsung Telecomm. | MT6407-77A | | | |
| 93.0 | 1 | -- | Platform Mount [LP 714-1] | | | |

Table 2 - Other Considered Equipment

| Mounting Level (ft) | Center Line Elevation (ft) | Number of Antennas | Antenna Manufacturer | Antenna Model | Number of Feed Lines | Feed Line Size (in) |
|---------------------|----------------------------|--------------------|----------------------|---------------------------|----------------------|---------------------|
| 80.0 | 88.0 | 1 | -- | Side Arm Mount [SO 901-1] | 1 | 1/2 |
| | 80.0 | 1 | decibel | DB225-A | | |
| | 72.0 | 1 | -- | Side Arm Mount [SO 901-1] | | |
| 60.0 | 68.0 | 1 | -- | Side Arm Mount [SO 901-1] | 1 | 1/2 |
| | 60.0 | 1 | decibel | DB225-A | | |
| | 52.0 | 1 | -- | Side Arm Mount [SO 901-1] | | |

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

| Document | Reference | Source |
|----------------------------|------------------|-----------|
| Tower Manufacturer Drawing | 971913 | CCI Sites |
| Foundation Drawing | 217660 | CCI Sites |
| Geotech Report | 262228 | CCI Sites |
| Crown CAD Package | Date: 07/19/2023 | CCI Sites |

3.1) Analysis Method

tnxTower (version 8.1.1.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 standard.

3.2) Assumptions

- 1) The tower and structures were maintained in accordance with the - TIA-222 standard.
- 2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.

This analysis may be affected if any assumptions are not valid or have been made in error. B+T Group should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

| Section No. | Elevation (ft) | Component Type | Size | Critical Element | P (K) | SF*P_allow (K) | % Capacity | Pass / Fail |
|-------------|-----------------|----------------|----------------------|------------------|---------|----------------|------------|-------------|
| L1 | 110 - 67.333 | Pole | TP30.45x21.91x0.219 | 1 | -10.477 | 1267.581 | 33.2 | Pass |
| L2 | 67.333 - 29.417 | Pole | TP37.6x29.078x0.313 | 2 | -17.013 | 2235.639 | 38.1 | Pass |
| L3 | 29.417 - 0 | Pole | TP42.85x35.858x0.406 | 3 | -25.864 | 3410.421 | 35.3 | Pass |
| | | | | | | | Summary | |
| | | | | | | Pole (L2) | 38.1 | Pass |
| | | | | | | Rating = | 38.1 | Pass |

Table 5 - Tower Component Stresses vs. Capacity - LC5

| Notes | Component | Elevation (ft.) | % Capacity | Pass / Fail |
|-------|------------------------------------|-----------------|------------|-------------|
| 1,2 | Anchor Rods | Base | 35.3 | Pass |
| 1,2 | Base Plate | Base | 19.6 | Pass |
| 1,2 | Base Foundation (Structure) | Base | 20.8 | Pass |
| 1,2 | Base Foundation (Soil Interaction) | Base | 45.5 | Pass |

| | |
|---|--------------|
| Structure Rating (max from all components) = | 45.5% |
|---|--------------|

Notes:

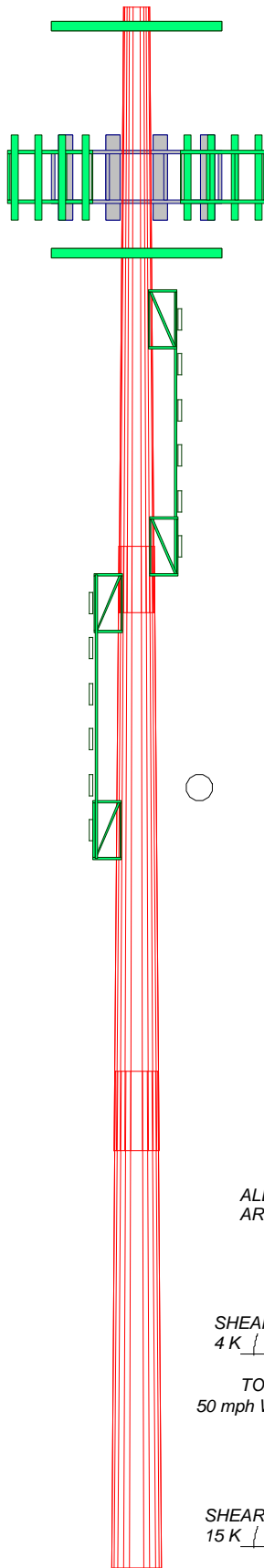
- 1) See additional documentation in "Appendix C - Additional Calculations" for calculations supporting the % capacity consumed.
- 2) Rating per TIA-222-H Section 15.5.

4.1) Recommendations

The tower and its foundation have sufficient capacity to carry the proposed load configuration. No modifications are required at this time.

APPENDIX A
TNXTOWER OUTPUT

110.0 ft



MATERIAL STRENGTH

| GRADE | Fy | Fu | GRADE | Fy | Fu |
|---------|--------|--------|-------|----|----|
| A572-65 | 65 ksi | 80 ksi | | | |

TOWER DESIGN NOTES

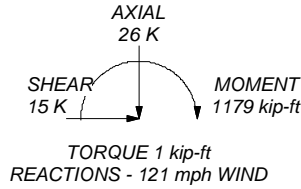
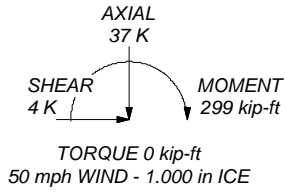
1. Tower is located in New Haven County, Connecticut.
2. Tower designed for Exposure B to the TIA-222-H Standard.
3. Tower designed for a 121 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.000 ft
8. TIA-222-H Annex S
9. TOWER RATING: 38.1%

67.3 ft

29.4 ft

0.0 ft

ALL REACTIONS
ARE FACTORED



| Section | Length (ft) | Number of Sides | Thickness (in) | Socket Length (ft) | Top Dia (in) | Bot Dia (in) | Grade | Weight (K) |
|---------|-------------|-----------------|----------------|--------------------|--------------|--------------|---------|------------|
| 1 | 42.667 | 12 | 0.219 | 4.667 | 21.910 | 30.450 | A572-65 | 2.7 |
| 2 | 35.000 | 12 | 0.313 | 5.583 | 29.078 | 37.600 | A572-65 | 4.8 |
| 3 | 32.333 | 12 | 0.406 | 5.583 | 35.858 | 42.850 | A572-65 | 6.1 |
| | | | | | | | | 13.5 |

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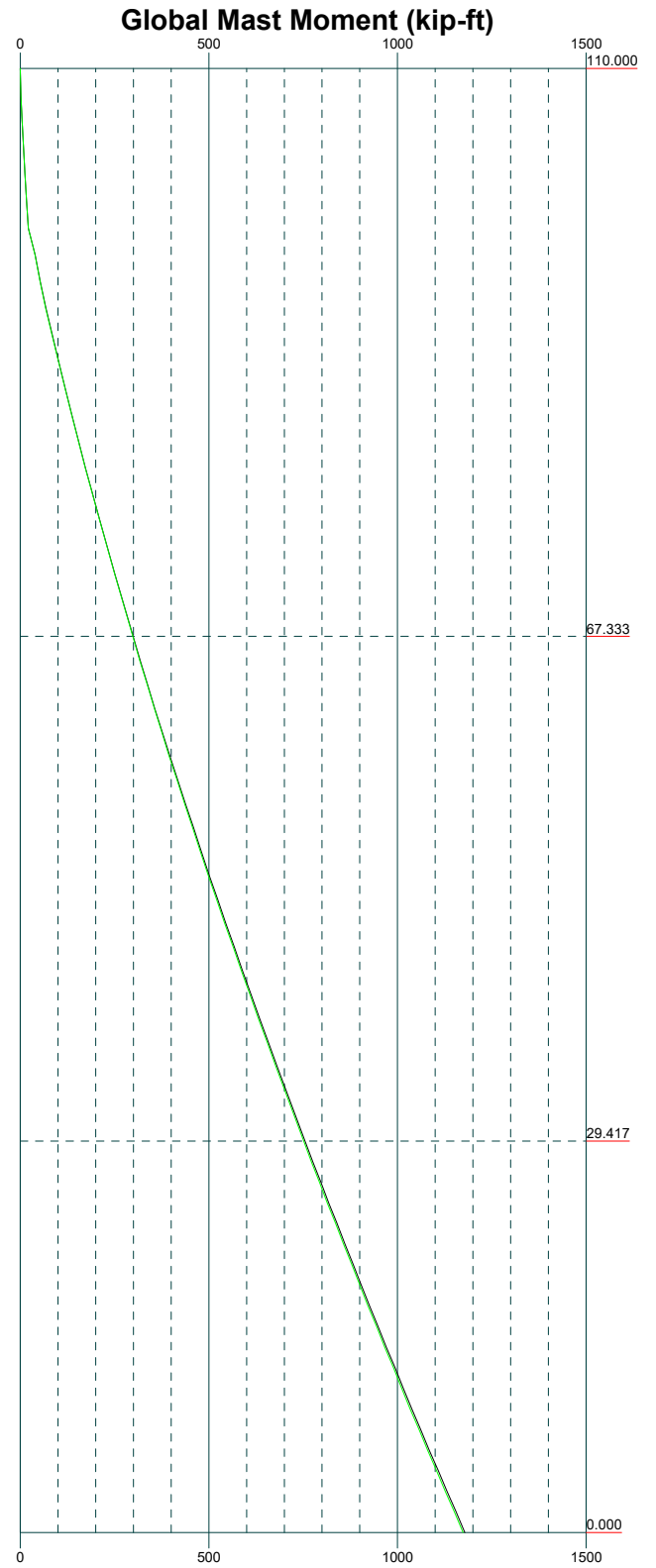
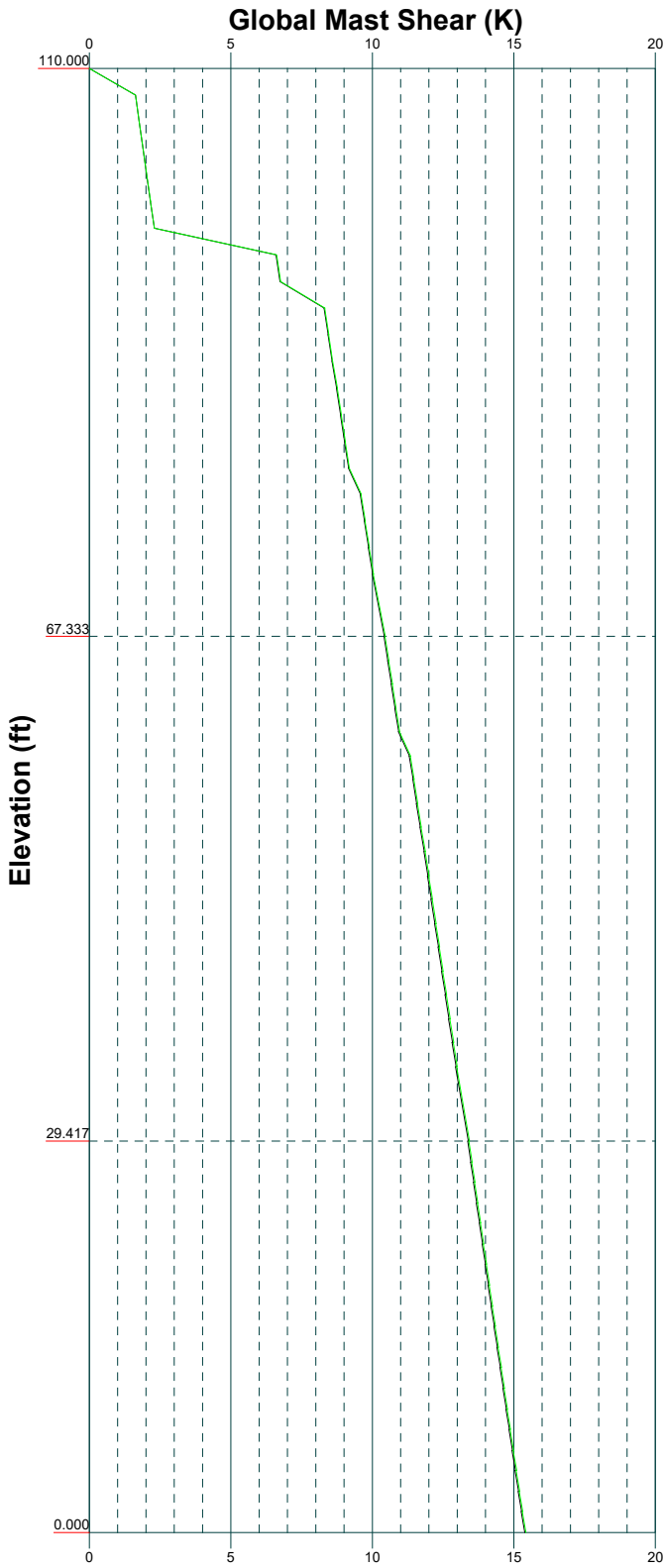
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| Project: | Client: Crown Castle | Drawn by: V. RAO |
| Code: TIA-222-H | Date: 08/17/23 | App'd: |
| Path: | Scale: NTS | Dwg No. E-1 |

Vx

Vz

Mx

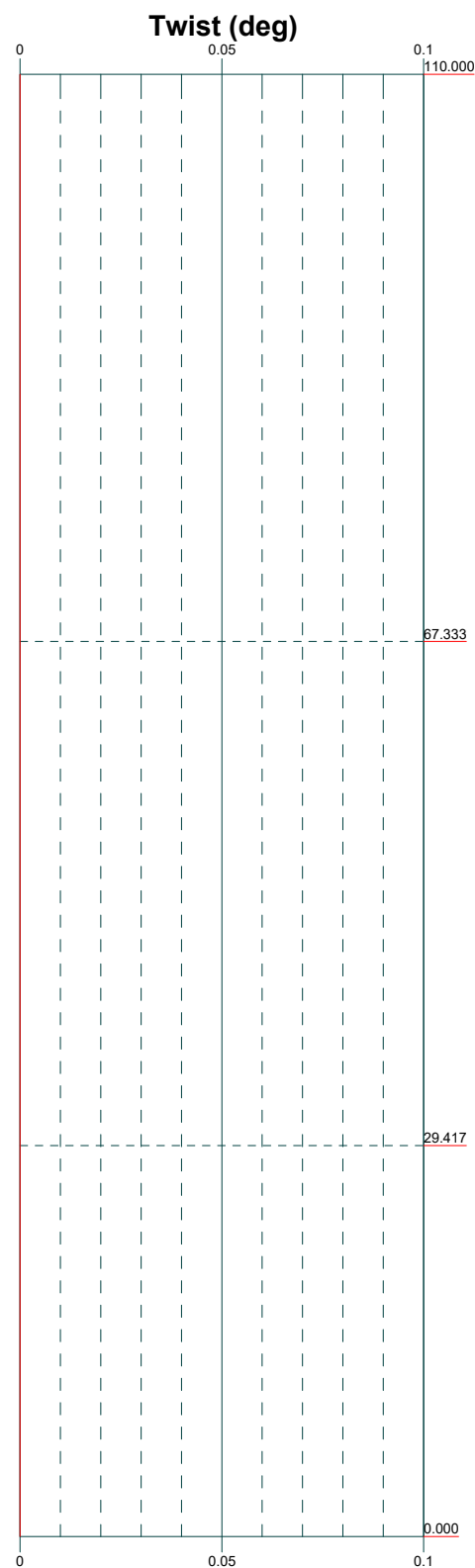
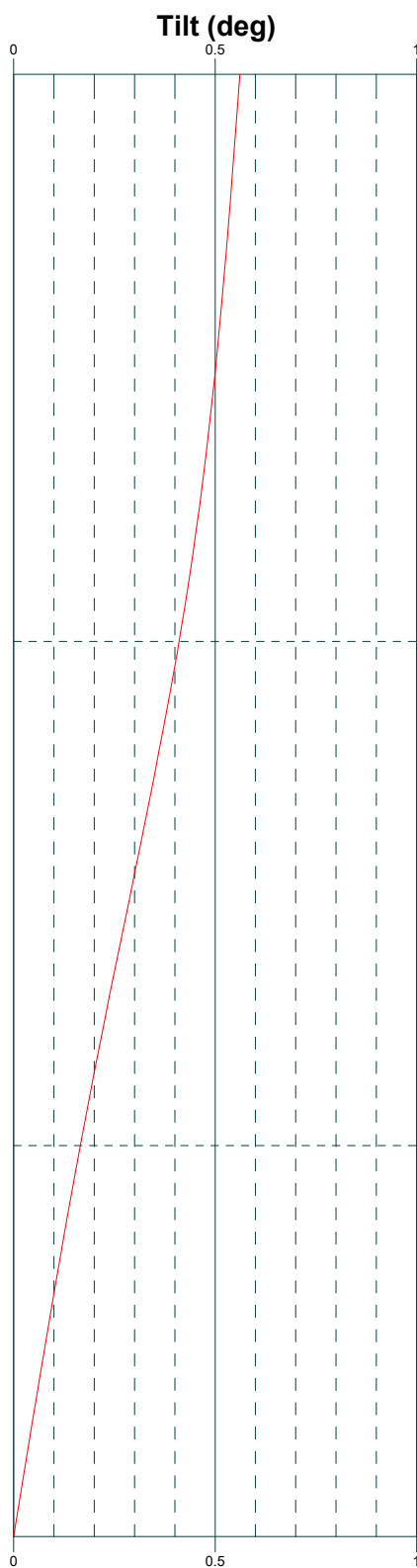
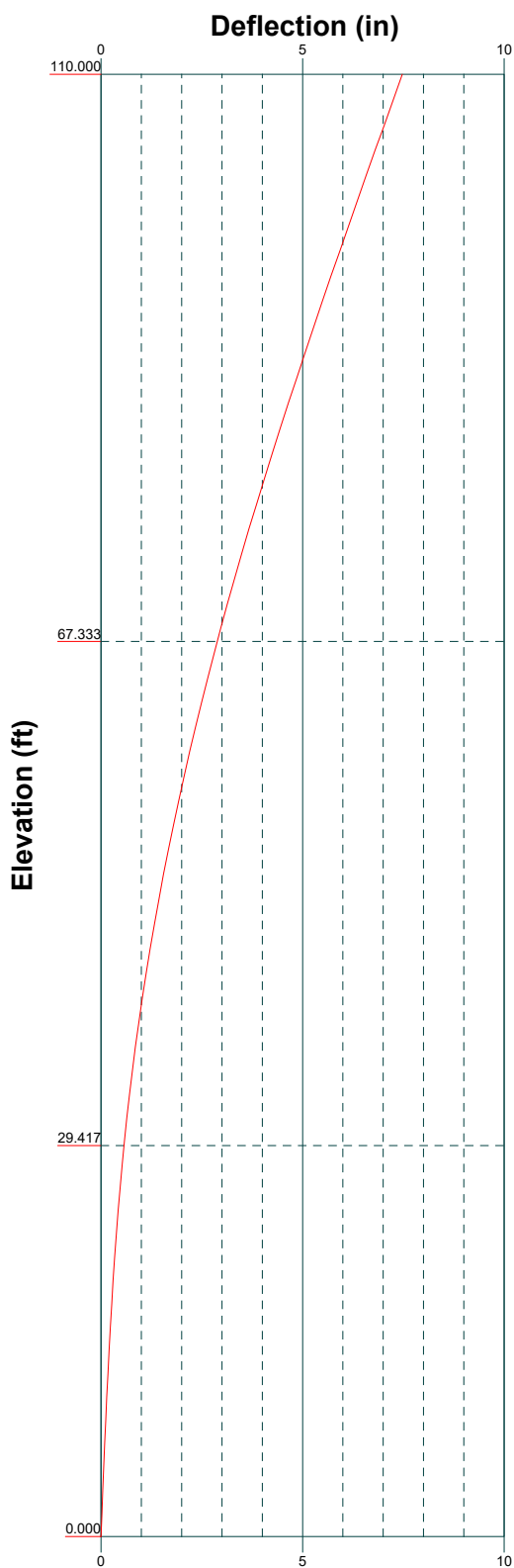
Mz



Elevation (ft)

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| | | |
|--|------------------|-------------|
| Job: 87395.007.01.0001 - NHV 113 943126, CT (BU# 80636) | | |
| Project: | | |
| Client: Crown Castle | Drawn by: V. RAO | App'd: |
| Code: TIA-222-H | Date: 08/17/23 | Scale: NTS |
| Path: | | Dwg No. E-4 |



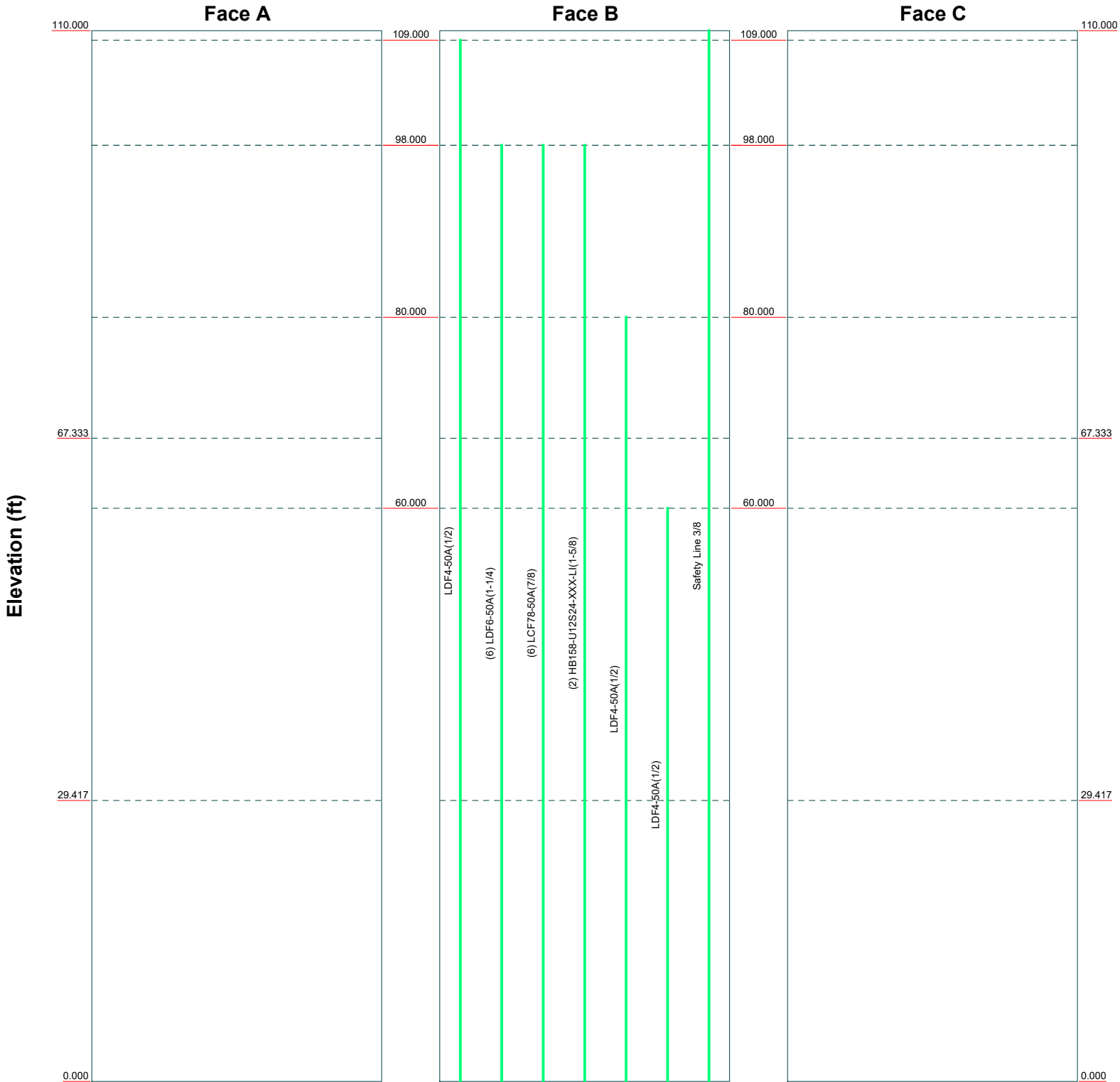
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| | | |
|--|------------------|------------|
| Job: 87395.007.01.0001 - NHV 113 943126, CT (BU# 80636) | | |
| Project: | | |
| Client: Crown Castle | Drawn by: V. RAO | App'd: |
| Code: TIA-222-H | Date: 08/17/23 | Scale: NTS |
| Path: | Dwg No. E-5 | |

Feed Line Distribution Chart

0' - 110'

— Round
 — Flat
 — App In Face
 — App Out Face
 — Truss Leg



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| | | |
|--|------------------|------------|
| Job: 87395.007.01.0001 - NHV 113 943126, CT (BU# 80636) | | |
| Project: | | |
| Client: Crown Castle | Drawn by: V. RAO | App'd: |
| Code: TIA-222-H | Date: 08/17/23 | Scale: NTS |
| Path: | Dwg No. E-7 | |

| | | |
|--|---|----------------------------------|
| tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265 | Job 87395.007.01.0001 - NHV 113 943126, CT (BU# 806360) | Page 1 of 14 |
| | Project | Date 17:27:03 08/17/23 |
| | Client Crown Castle | Designed by V. RAO |

Tower Input Data

The tower is a monopole.

This tower is designed using the TIA-222-H standard.

The following design criteria apply:

- Tower is located in New Haven County, Connecticut.
- Tower base elevation above sea level: 59.000 ft.
- Basic wind speed of 121 mph.
- Risk Category II.
- Exposure Category B.
- Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- Topographic Category: 1.
- Crest Height: 0.000 ft.
- Nominal ice thickness of 1.000 in.
- Ice thickness is considered to increase with height.
- Ice density of 56.000 pcf.
- A wind speed of 50 mph is used in combination with ice.
- Temperature drop of 50.000 °F.
- Deflections calculated using a wind speed of 60 mph.
- TIA-222-H Annex S.
- A non-linear (P-delta) analysis was used.
- Pressures are calculated at each section.
- Stress ratio used in pole design is 1.
- Tower analysis based on target reliabilities in accordance with Annex S.
- Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
- Maximum demand-capacity ratio is: 1.05.
- Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

- | | | |
|--|---|---|
| <ul style="list-style-type: none"> Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification √ Use Code Stress Ratios √ Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use Special Wind Profile Include Bolts In Member Capacity Leg Bolts Are At Top Of Section Secondary Horizontal Braces Leg Use Diamond Inner Bracing (4 Sided) SR Members Have Cut Ends SR Members Are Concentric | <ul style="list-style-type: none"> Distribute Leg Loads As Uniform Assume Legs Pinned √ Assume Rigid Index Plate √ Use Clear Spans For Wind Area Use Clear Spans For KL/r Retension Guys To Initial Tension √ Bypass Mast Stability Checks √ Use Azimuth Dish Coefficients √ Project Wind Area of Appurt. Autocalc Torque Arm Areas Add IBC .6D+W Combination Sort Capacity Reports By Component Triangulate Diamond Inner Bracing Treat Feed Line Bundles As Cylinder Ignore KL/ry For 60 Deg. Angle Legs | <ul style="list-style-type: none"> Use ASCE 10 X-Brace Ly Rules Calculate Redundant Bracing Forces Ignore Redundant Members in FEA SR Leg Bolts Resist Compression All Leg Panels Have Same Allowable Offset Girt At Foundation √ Consider Feed Line Torque Include Angle Block Shear Check Use TIA-222-H Bracing Resist. Exemption Use TIA-222-H Tension Splice Exemption <li style="text-align: center;">Poles √ Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets √ Pole Without Linear Attachments Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known |
|--|---|---|

| | | |
|--|---|----------------------------------|
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Tapered Pole Section Geometry

| Section | Elevation ft | Section Length ft | Splice Length ft | Number of Sides | Top Diameter in | Bottom Diameter in | Wall Thickness in | Bend Radius in | Pole Grade |
|---------|-----------------|----------------------|---------------------|-----------------|--------------------|-----------------------|----------------------|-------------------|---------------------|
| L1 | 110.000-67.333 | 42.667 | 4.667 | 12 | 21.910 | 30.450 | 0.219 | 0.875 | A572-65 (65 ksi) |
| L2 | 67.333-29.417 | 42.583 | 5.583 | 12 | 29.078 | 37.600 | 0.313 | 1.250 | A572-65 (65 ksi) |
| L3 | 29.417-0.000 | 35.000 | | 12 | 35.858 | 42.850 | 0.406 | 1.625 | A572-65 (65 ksi) |

Tapered Pole Properties

| Section | Tip Dia. in | Area in ² | I in ⁴ | r in | C in | I/C in ³ | J in ⁴ | It/Q in ² | w in | w/t |
|---------|----------------|-------------------------|----------------------|---------|---------|------------------------|----------------------|-------------------------|---------|--------|
| L1 | 22.606 | 15.279 | 917.579 | 7.765 | 11.349 | 80.848 | 1859.264 | 7.520 | 5.286 | 24.163 |
| | 31.447 | 21.294 | 2484.038 | 10.823 | 15.773 | 157.486 | 5033.334 | 10.480 | 7.574 | 34.626 |
| L2 | 30.961 | 28.946 | 3057.206 | 10.298 | 15.063 | 202.967 | 6194.729 | 14.246 | 6.956 | 22.258 |
| | 38.816 | 37.521 | 6658.580 | 13.349 | 19.477 | 341.872 | 13492.089 | 18.466 | 9.239 | 29.566 |
| L3 | 38.134 | 46.375 | 7439.414 | 12.692 | 18.574 | 400.522 | 15074.270 | 22.824 | 8.521 | 20.975 |
| | 44.218 | 55.522 | 12766.635 | 15.195 | 22.196 | 575.170 | 25868.664 | 27.326 | 10.395 | 25.588 |

| Tower Elevation ft | Gusset Area (per face) ft ² | Gusset Thickness in | Gusset Grade | Adjust. Factor A _f | Adjust. Factor A _r | Weight Mult. | Double Angle Stitch Bolt Spacing Diagonals in | Double Angle Stitch Bolt Spacing Horizontals in | Double Angle Stitch Bolt Spacing Redundants in |
|-----------------------|--|------------------------|--------------|----------------------------------|----------------------------------|--------------|---|---|--|
| L1 110.000-67.333 | | | | 1 | 1 | 1 | | | |
| L2 67.333-29.417 | | | | 1 | 1 | 1 | | | |
| L3 29.417-0.000 | | | | 1 | 1 | 1 | | | |

Feed Line/Linear Appurtenances - Entered As Round Or Flat

| Description | Face or Leg | Allow Shield | Exclude From Torque Calculation | Component Type | Placement ft | Total Number | Number Per Row | Clear Spacing in | Width or Diameter in | Perimeter in | Weight klf |
|-------------|-------------|--------------|---------------------------------|----------------|-----------------|--------------|----------------|---------------------|-------------------------|-----------------|---------------|
| * | | | | | | | | | | | |

Feed Line/Linear Appurtenances - Entered As Area

| Description | Face or Leg | Allow Shield | Exclude From Torque Calculation | Component Type | Placement ft | Total Number | C _{AA} | Weight klf |
|---------------|-------------|--------------|---------------------------------|----------------|-----------------|--------------|-----------------|---------------|
| LDF4-50A(1/2) | B | No | No | Inside Pole | 109.000 - 0.000 | 1 | No Ice | 0.000 |

| | | |
|--|---|----------------------------------|
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| | Client Crown Castle | Designed by V. RAO |

| Description | Face or Leg | Allow Shield | Exclude From Torque Calculation | Component Type | Placement ft | Total Number | | C _{AA} ft ² /ft | Weight klf |
|--------------------------------|-------------|--------------|---------------------------------|--------------------|-----------------|--------------|----------|-------------------------------------|------------|
| | | | | | | | 1/2" Ice | 0.000 | 0.000 |
| | | | | | | | 1" Ice | 0.000 | 0.000 |
| * | | | | | | | | | |
| LDF6-50A(1-1/4) | B | No | No | Inside Pole | 98.000 - 0.000 | 6 | No Ice | 0.000 | 0.001 |
| | | | | | | | 1/2" Ice | 0.000 | 0.001 |
| | | | | | | | 1" Ice | 0.000 | 0.001 |
| LCF78-50A(7/8) | B | No | No | Inside Pole | 98.000 - 0.000 | 6 | No Ice | 0.000 | 0.000 |
| | | | | | | | 1/2" Ice | 0.000 | 0.000 |
| | | | | | | | 1" Ice | 0.000 | 0.000 |
| HB158-U12S24-XX X-LI(1-5/8) | B | No | No | Inside Pole | 98.000 - 0.000 | 2 | No Ice | 0.000 | 0.003 |
| | | | | | | | 1/2" Ice | 0.000 | 0.003 |
| | | | | | | | 1" Ice | 0.000 | 0.003 |
| * | | | | | | | | | |
| LDF4-50A(1/2) | B | No | No | Inside Pole | 80.000 - 0.000 | 1 | No Ice | 0.000 | 0.000 |
| | | | | | | | 1/2" Ice | 0.000 | 0.000 |
| | | | | | | | 1" Ice | 0.000 | 0.000 |
| * | | | | | | | | | |
| LDF4-50A(1/2) | B | No | No | Inside Pole | 60.000 - 0.000 | 1 | No Ice | 0.000 | 0.000 |
| | | | | | | | 1/2" Ice | 0.000 | 0.000 |
| | | | | | | | 1" Ice | 0.000 | 0.000 |
| * | | | | | | | | | |
| Safety Line 3/8 | B | No | No | CaAa (Out Of Face) | 110.000 - 0.000 | 1 | No Ice | 0.037 | 0.000 |
| | | | | | | | 1/2" Ice | 0.137 | 0.001 |
| | | | | | | | 1" Ice | 0.238 | 0.001 |
| * | | | | | | | | | |

Feed Line/Linear Appurtenances Section Areas

| Tower Section | Tower Elevation ft | Face | A _R ft ² | A _F ft ² | C _{AA} In Face ft ² | C _{AA} Out Face ft ² | Weight K |
|---------------|--------------------|------|--------------------------------|--------------------------------|---|--|----------|
| L1 | 110.000-67.333 | A | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| | | B | 0.000 | 0.000 | 0.000 | 1.600 | 0.387 |
| | | C | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| L2 | 67.333-29.417 | A | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| | | B | 0.000 | 0.000 | 0.000 | 1.422 | 0.481 |
| | | C | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| L3 | 29.417-0.000 | A | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| | | B | 0.000 | 0.000 | 0.000 | 1.103 | 0.374 |
| | | C | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

Feed Line/Linear Appurtenances Section Areas - With Ice

| Tower Section | Tower Elevation ft | Face or Leg | Ice Thickness in | A _R ft ² | A _F ft ² | C _{AA} In Face ft ² | C _{AA} Out Face ft ² | Weight K |
|---------------|--------------------|-------------|------------------|--------------------------------|--------------------------------|---|--|----------|
| L1 | 110.000-67.333 | A | 0.937 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| | | B | | 0.000 | 0.000 | 0.000 | 9.600 | 0.429 |
| | | C | | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| L2 | 67.333-29.417 | A | 0.883 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| | | B | | 0.000 | 0.000 | 0.000 | 8.531 | 0.518 |

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| Tower Section | Tower Elevation ft | Face or Leg | Ice Thickness in | A _R ft ² | A _F ft ² | C _{AA} In Face ft ² | C _{AA} Out Face ft ² | Weight K |
|---------------|-----------------------|-------------|---------------------|-----------------------------------|-----------------------------------|---|--|-------------|
| L3 | 29.417-0.000 | C | 0.782 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| | | A | | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| | | B | | 0.000 | 0.000 | 0.000 | 6.297 | 0.401 |
| | | C | | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

Feed Line Center of Pressure

| Section | Elevation ft | CP _x in | CP _z in | CP _x Ice in | CP _z Ice in |
|---------|-----------------|-----------------------|-----------------------|------------------------------|------------------------------|
| L1 | 110.000-67.333 | 0.218 | 0.126 | 0.819 | 0.473 |
| L2 | 67.333-29.417 | 0.219 | 0.126 | 0.847 | 0.489 |
| L3 | 29.417-0.000 | 0.219 | 0.127 | 0.824 | 0.476 |

Note: For pole sections, center of pressure calculations do not consider feed line shielding.

Discrete Tower Loads

| Description | Face or Leg | Offset Type | Offsets: Horz Lateral Vert ft ft ft | Azimuth Adjustment ° | Placement ft | C _{AA} Front ft ² | C _{AA} Side ft ² | Weight K | |
|---------------------------|-------------|-------------|---|-------------------------|-----------------|---|--|-------------|-------|
| GPS_A | A | From Leg | 4.000 | 0.000 | 109.000 | No Ice | 0.255 | 0.255 | 0.001 |
| | | | 0.000 | | | 1/2" Ice | 0.320 | 0.320 | 0.005 |
| | | | 3.000 | | | 1" Ice | 0.393 | 0.393 | 0.010 |
| Platform Mount [LP 714-1] | C | None | | 0.000 | 109.000 | No Ice | 37.510 | 37.510 | 1.600 |
| | | | | | | 1/2" Ice | 41.700 | 41.700 | 2.496 |
| | | | | | | 1" Ice | 45.890 | 45.890 | 3.458 |
| *(2) DB846F65ZAXY | A | From Leg | 4.000 | 0.000 | 98.000 | No Ice | 6.166 | 5.413 | 0.032 |
| | | | 0.000 | | | 1/2" Ice | 6.891 | 6.128 | 0.081 |
| | | | 1.000 | | | 1" Ice | 7.634 | 6.860 | 0.136 |
| (2) DB846F65ZAXY | B | From Leg | 4.000 | 0.000 | 98.000 | No Ice | 6.166 | 5.413 | 0.032 |
| | | | 0.000 | | | 1/2" Ice | 6.891 | 6.128 | 0.081 |
| | | | 1.000 | | | 1" Ice | 7.634 | 6.860 | 0.136 |
| (2) DB846F65ZAXY | C | From Leg | 4.000 | 0.000 | 98.000 | No Ice | 6.166 | 5.413 | 0.032 |
| | | | 0.000 | | | 1/2" Ice | 6.891 | 6.128 | 0.081 |
| | | | 1.000 | | | 1" Ice | 7.634 | 6.860 | 0.136 |
| (2) JAHH-65B-R3B | A | From Leg | 4.000 | 0.000 | 98.000 | No Ice | 5.286 | 3.053 | 0.063 |
| | | | 0.000 | | | 1/2" Ice | 5.750 | 3.485 | 0.121 |
| | | | 1.000 | | | 1" Ice | 6.223 | 3.927 | 0.186 |
| (2) JAHH-65B-R3B | B | From Leg | 4.000 | 0.000 | 98.000 | No Ice | 5.286 | 3.053 | 0.063 |
| | | | 0.000 | | | 1/2" Ice | 5.750 | 3.485 | 0.121 |
| | | | 1.000 | | | 1" Ice | 6.223 | 3.927 | 0.186 |
| (2) JAHH-65B-R3B | C | From Leg | 4.000 | 0.000 | 98.000 | No Ice | 5.286 | 3.053 | 0.063 |
| | | | 0.000 | | | 1/2" Ice | 5.750 | 3.485 | 0.121 |
| | | | 1.000 | | | 1" Ice | 6.223 | 3.927 | 0.186 |
| MT6407-77A | A | From Leg | 4.000 | 0.000 | 98.000 | No Ice | 6.740 | 2.340 | 0.082 |

| | | | | | | | | |
|--|----------------|--|---|--|--------------------|--|-------------------|--|
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| | Project | | | | Date | | 17:27:03 08/17/23 | |
| | Client | | Crown Castle | | Designed by | | V. RAO | |

| Description | Face or Leg | Offset Type | Offsets: Horz Lateral Vert ft ft ft | Azimuth Adjustment ° | Placement ft | C _{AA} Front ft ² | C _{AA} Side ft ² | Weight K |
|-------------------------------|-------------|-------------|--|-------------------------|-----------------|--|---|-------------|
| | | | 0.000 | | | 1/2" Ice 7.360 | 2.830 | 0.111 |
| | | | 2.000 | | | 1" Ice 8.000 | 3.350 | 0.144 |
| MT6407-77A | B | From Leg | 4.000 | 0.000 | 98.000 | No Ice 6.740 | 2.340 | 0.082 |
| | | | 0.000 | | | 1/2" Ice 7.360 | 2.830 | 0.111 |
| | | | 2.000 | | | 1" Ice 8.000 | 3.350 | 0.144 |
| MT6407-77A | C | From Leg | 4.000 | 0.000 | 98.000 | No Ice 6.740 | 2.340 | 0.082 |
| | | | 0.000 | | | 1/2" Ice 7.360 | 2.830 | 0.111 |
| | | | -1.000 | | | 1" Ice 8.000 | 3.350 | 0.144 |
| CBC78T-DS-43 | A | From Leg | 4.000 | 0.000 | 98.000 | No Ice 0.368 | 0.253 | 0.011 |
| | | | 0.000 | | | 1/2" Ice 0.446 | 0.319 | 0.015 |
| | | | 1.000 | | | 1" Ice 0.531 | 0.392 | 0.020 |
| CBC78T-DS-43 | B | From Leg | 4.000 | 0.000 | 98.000 | No Ice 0.368 | 0.253 | 0.011 |
| | | | 0.000 | | | 1/2" Ice 0.446 | 0.319 | 0.015 |
| | | | 1.000 | | | 1" Ice 0.531 | 0.392 | 0.020 |
| CBC78T-DS-43 | C | From Leg | 4.000 | 0.000 | 98.000 | No Ice 0.368 | 0.253 | 0.011 |
| | | | 0.000 | | | 1/2" Ice 0.446 | 0.319 | 0.015 |
| | | | 1.000 | | | 1" Ice 0.531 | 0.392 | 0.020 |
| RFV01U-D1A | A | From Leg | 4.000 | 0.000 | 98.000 | No Ice 1.875 | 1.250 | 0.084 |
| | | | 0.000 | | | 1/2" Ice 2.045 | 1.393 | 0.103 |
| | | | 2.000 | | | 1" Ice 2.223 | 1.543 | 0.124 |
| RFV01U-D1A | B | From Leg | 4.000 | 0.000 | 98.000 | No Ice 1.875 | 1.250 | 0.084 |
| | | | 0.000 | | | 1/2" Ice 2.045 | 1.393 | 0.103 |
| | | | 2.000 | | | 1" Ice 2.223 | 1.543 | 0.124 |
| RFV01U-D1A | C | From Leg | 4.000 | 0.000 | 98.000 | No Ice 1.875 | 1.250 | 0.084 |
| | | | 0.000 | | | 1/2" Ice 2.045 | 1.393 | 0.103 |
| | | | 2.000 | | | 1" Ice 2.223 | 1.543 | 0.124 |
| RFV01U-D2A | A | From Leg | 4.000 | 0.000 | 98.000 | No Ice 1.875 | 1.013 | 0.070 |
| | | | 0.000 | | | 1/2" Ice 2.045 | 1.145 | 0.087 |
| | | | 2.000 | | | 1" Ice 2.223 | 1.284 | 0.106 |
| RFV01U-D2A | B | From Leg | 4.000 | 0.000 | 98.000 | No Ice 1.875 | 1.013 | 0.070 |
| | | | 0.000 | | | 1/2" Ice 2.045 | 1.145 | 0.087 |
| | | | 2.000 | | | 1" Ice 2.223 | 1.284 | 0.106 |
| RFV01U-D2A | C | From Leg | 4.000 | 0.000 | 98.000 | No Ice 1.875 | 1.013 | 0.070 |
| | | | 0.000 | | | 1/2" Ice 2.045 | 1.145 | 0.087 |
| | | | 2.000 | | | 1" Ice 2.223 | 1.284 | 0.106 |
| BSF0020F3V1 | A | From Leg | 4.000 | 0.000 | 98.000 | No Ice 0.963 | 0.287 | 0.018 |
| | | | 0.000 | | | 1/2" Ice 1.086 | 0.364 | 0.024 |
| | | | 2.000 | | | 1" Ice 1.217 | 0.449 | 0.033 |
| 16'x2" Antenna Mount Pipe | A | From Leg | 4.000 | 0.000 | 98.000 | No Ice 3.800 | 3.800 | 0.060 |
| | | | 0.000 | | | 1/2" Ice 5.428 | 5.428 | 0.088 |
| | | | 4.000 | | | 1" Ice 7.073 | 7.073 | 0.127 |
| 16'x2" Antenna Mount Pipe | B | From Leg | 4.000 | 0.000 | 98.000 | No Ice 3.800 | 3.800 | 0.060 |
| | | | 0.000 | | | 1/2" Ice 5.428 | 5.428 | 0.088 |
| | | | 4.000 | | | 1" Ice 7.073 | 7.073 | 0.127 |
| 16'x2" Antenna Mount Pipe | C | From Leg | 4.000 | 0.000 | 98.000 | No Ice 3.800 | 3.800 | 0.060 |
| | | | 0.000 | | | 1/2" Ice 5.428 | 5.428 | 0.088 |
| | | | 4.000 | | | 1" Ice 7.073 | 7.073 | 0.127 |
| 6' x 2" Horizontal Mount Pipe | A | From Leg | 4.000 | 0.000 | 98.000 | No Ice 1.140 | 0.010 | 0.016 |
| | | | 0.000 | | | 1/2" Ice 1.760 | 0.040 | 0.025 |
| | | | 8.000 | | | 1" Ice 2.140 | 0.090 | 0.038 |
| 6' x 2" Horizontal Mount Pipe | B | From Leg | 4.000 | 0.000 | 98.000 | No Ice 1.140 | 0.010 | 0.016 |
| | | | 0.000 | | | 1/2" Ice 1.760 | 0.040 | 0.025 |
| | | | 8.000 | | | 1" Ice 2.140 | 0.090 | 0.038 |
| 6' x 2" Horizontal Mount Pipe | C | From Leg | 4.000 | 0.000 | 98.000 | No Ice 1.140 | 0.010 | 0.016 |
| | | | 0.000 | | | 1/2" Ice 1.760 | 0.040 | 0.025 |
| | | | 8.000 | | | 1" Ice 2.140 | 0.090 | 0.038 |
| 12' horizontal x 2" Pipe | A | From Leg | 4.000 | 0.000 | 98.000 | No Ice 2.280 | 0.010 | 0.033 |

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| | Project | Date 17:27:03 08/17/23 |
| | Client Crown Castle | Designed by V. RAO |

| Description | Face or Leg | Offset Type | Offsets: | | Azimuth Adjustment ° | Placement ft | C _{AA} Front ft ² | C _{AA} Side ft ² | Weight K |
|--------------------------------|-------------------|----------------|-----------------------|------------|----------------------------|-----------------|---|--|-------------|
| | | | Horz Lateral ft | Vert ft | | | | | |
| Mount | | | 0.000 | | | 1/2" Ice | 3.500 | 0.040 | 0.050 |
| | | | 2.000 | | | 1" Ice | 4.750 | 0.090 | 0.076 |
| 12' horizontal x 2" Pipe Mount | B | From Leg | 4.000 | 0.000 | 98.000 | No Ice | 2.280 | 0.010 | 0.033 |
| | | | 0.000 | | | 1/2" Ice | 3.500 | 0.040 | 0.050 |
| | | | 2.000 | | | 1" Ice | 4.750 | 0.090 | 0.076 |
| 12' horizontal x 2" Pipe Mount | C | From Leg | 4.000 | 0.000 | 98.000 | No Ice | 2.280 | 0.010 | 0.033 |
| | | | 0.000 | | | 1/2" Ice | 3.500 | 0.040 | 0.050 |
| | | | 2.000 | | | 1" Ice | 4.750 | 0.090 | 0.076 |
| Sector Mount [15'-SM 201-3] | C | None | | 0.000 | 98.000 | No Ice | 28.560 | 28.560 | 1.249 |
| | | | | | | 1/2" Ice | 39.100 | 39.100 | 1.759 |
| | | | | | | 1" Ice | 49.640 | 49.640 | 2.269 |
| Platform Mount [LP 714-1] | C | None | | 0.000 | 93.000 | No Ice | 37.510 | 37.510 | 1.600 |
| | | | | | | 1/2" Ice | 41.700 | 41.700 | 2.496 |
| | | | | | | 1" Ice | 45.890 | 45.890 | 3.458 |
| * DB225-A | B | From Leg | 2.000 | 0.000 | 80.000 | No Ice | 3.210 | 3.210 | 0.037 |
| | | | 0.000 | | | 1/2" Ice | 5.778 | 5.778 | 0.048 |
| | | | 0.000 | | | 1" Ice | 8.346 | 8.346 | 0.059 |
| 20' x 2" Mount Pipe | B | From Leg | 2.000 | 0.000 | 80.000 | No Ice | 4.750 | 4.750 | 0.088 |
| | | | 0.000 | | | 1/2" Ice | 6.778 | 6.778 | 0.123 |
| | | | 0.000 | | | 1" Ice | 8.823 | 8.823 | 0.171 |
| Side Arm Mount [SO 901-1] | B | From Leg | 1.000 | 0.000 | 88.000 | No Ice | 0.330 | 0.620 | 0.105 |
| | | | 0.000 | | | 1/2" Ice | 0.460 | 0.780 | 0.113 |
| | | | 0.000 | | | 1" Ice | 0.620 | 0.970 | 0.123 |
| Side Arm Mount [SO 901-1] | B | From Leg | 1.000 | 0.000 | 72.000 | No Ice | 0.330 | 0.620 | 0.105 |
| | | | 0.000 | | | 1/2" Ice | 0.460 | 0.780 | 0.113 |
| | | | 0.000 | | | 1" Ice | 0.620 | 0.970 | 0.123 |
| * DB225-A | C | From Leg | 2.000 | 0.000 | 60.000 | No Ice | 3.210 | 3.210 | 0.037 |
| | | | 0.000 | | | 1/2" Ice | 5.778 | 5.778 | 0.048 |
| | | | 0.000 | | | 1" Ice | 8.346 | 8.346 | 0.059 |
| 20' x 2" Mount Pipe | C | From Leg | 2.000 | 0.000 | 60.000 | No Ice | 4.750 | 4.750 | 0.088 |
| | | | 0.000 | | | 1/2" Ice | 6.778 | 6.778 | 0.123 |
| | | | 0.000 | | | 1" Ice | 8.823 | 8.823 | 0.171 |
| Side Arm Mount [SO 901-1] | C | From Leg | 1.000 | 0.000 | 68.000 | No Ice | 0.330 | 0.620 | 0.105 |
| | | | 0.000 | | | 1/2" Ice | 0.460 | 0.780 | 0.113 |
| | | | 0.000 | | | 1" Ice | 0.620 | 0.970 | 0.123 |
| Side Arm Mount [SO 901-1] | C | From Leg | 1.000 | 0.000 | 52.000 | No Ice | 0.330 | 0.620 | 0.105 |
| | | | 0.000 | | | 1/2" Ice | 0.460 | 0.780 | 0.113 |
| | | | 0.000 | | | 1" Ice | 0.620 | 0.970 | 0.123 |
| * | | | | | | | | | |

Load Combinations

| Comb. No. | Description |
|-----------|-----------------------------------|
| 1 | Dead Only |
| 2 | 1.2 Dead+1.0 Wind 0 deg - No Ice |
| 3 | 0.9 Dead+1.0 Wind 0 deg - No Ice |
| 4 | 1.2 Dead+1.0 Wind 30 deg - No Ice |
| 5 | 0.9 Dead+1.0 Wind 30 deg - No Ice |

| | | |
|---|---|----------------------------------|
| <p>tnxTower</p> <p>B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p> | Job 87395.007.01.0001 - NHV 113 943126, CT (BU# 806360) | Page 7 of 14 |
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| Comb. No. | Description |
|-----------|--|
| 6 | 1.2 Dead+1.0 Wind 60 deg - No Ice |
| 7 | 0.9 Dead+1.0 Wind 60 deg - No Ice |
| 8 | 1.2 Dead+1.0 Wind 90 deg - No Ice |
| 9 | 0.9 Dead+1.0 Wind 90 deg - No Ice |
| 10 | 1.2 Dead+1.0 Wind 120 deg - No Ice |
| 11 | 0.9 Dead+1.0 Wind 120 deg - No Ice |
| 12 | 1.2 Dead+1.0 Wind 150 deg - No Ice |
| 13 | 0.9 Dead+1.0 Wind 150 deg - No Ice |
| 14 | 1.2 Dead+1.0 Wind 180 deg - No Ice |
| 15 | 0.9 Dead+1.0 Wind 180 deg - No Ice |
| 16 | 1.2 Dead+1.0 Wind 210 deg - No Ice |
| 17 | 0.9 Dead+1.0 Wind 210 deg - No Ice |
| 18 | 1.2 Dead+1.0 Wind 240 deg - No Ice |
| 19 | 0.9 Dead+1.0 Wind 240 deg - No Ice |
| 20 | 1.2 Dead+1.0 Wind 270 deg - No Ice |
| 21 | 0.9 Dead+1.0 Wind 270 deg - No Ice |
| 22 | 1.2 Dead+1.0 Wind 300 deg - No Ice |
| 23 | 0.9 Dead+1.0 Wind 300 deg - No Ice |
| 24 | 1.2 Dead+1.0 Wind 330 deg - No Ice |
| 25 | 0.9 Dead+1.0 Wind 330 deg - No Ice |
| 26 | 1.2 Dead+1.0 Ice+1.0 Temp |
| 27 | 1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp |
| 28 | 1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp |
| 29 | 1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp |
| 30 | 1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp |
| 31 | 1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp |
| 32 | 1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp |
| 33 | 1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp |
| 34 | 1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp |
| 35 | 1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp |
| 36 | 1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp |
| 37 | 1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp |
| 38 | 1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp |
| 39 | Dead+Wind 0 deg - Service |
| 40 | Dead+Wind 30 deg - Service |
| 41 | Dead+Wind 60 deg - Service |
| 42 | Dead+Wind 90 deg - Service |
| 43 | Dead+Wind 120 deg - Service |
| 44 | Dead+Wind 150 deg - Service |
| 45 | Dead+Wind 180 deg - Service |
| 46 | Dead+Wind 210 deg - Service |
| 47 | Dead+Wind 240 deg - Service |
| 48 | Dead+Wind 270 deg - Service |
| 49 | Dead+Wind 300 deg - Service |
| 50 | Dead+Wind 330 deg - Service |

Maximum Member Forces

| Section No. | Elevation ft | Component Type | Condition | Gov. Load Comb. | Axial K | Major Axis Moment kip-ft | Minor Axis Moment kip-ft |
|-------------|--------------|----------------|------------------|-----------------|---------|--------------------------|--------------------------|
| L1 | 110 - 67.333 | Pole | Max Tension | 33 | 0.000 | 0.000 | 0.000 |
| | | | Max. Compression | 26 | -18.755 | -0.983 | -0.341 |
| | | | Max. Mx | 8 | -10.479 | -250.582 | -0.386 |
| | | | Max. My | 14 | -10.476 | -0.745 | -251.078 |
| | | | Max. Vy | 8 | 10.013 | -250.582 | -0.386 |
| | | | Max. Vx | 14 | 10.040 | -0.745 | -251.078 |
| | | | Max. Torque | 16 | | | 0.956 |
| | | | Max Tension | 1 | 0.000 | 0.000 | 0.000 |
| L2 | 67.333 - | Pole | Max Tension | 1 | 0.000 | 0.000 | 0.000 |

| | | |
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| tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265 | Job 87395.007.01.0001 - NHV 113 943126, CT (BU# 806360) | Page 8 of 14 |
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| Section No. | Elevation ft | Component Type | Condition | Gov. Load Comb. | Axial K | Major Axis Moment kip-ft | Minor Axis Moment kip-ft |
|-------------|--------------|----------------|---------------------|-----------------|---------|--------------------------|--------------------------|
| | 29.417 | | Max. Compression | 26 | -26.909 | -0.041 | -1.266 |
| | | | Max. M _x | 20 | -17.014 | 677.865 | -0.968 |
| | | | Max. M _y | 14 | -17.013 | 0.015 | -681.094 |
| | | | Max. V _y | 20 | -12.959 | 677.865 | -0.968 |
| | | | Max. V _x | 14 | 12.999 | 0.015 | -681.094 |
| | | | Max. Torque | 16 | | | 1.005 |
| L3 | 29.417 - 0 | Pole | Max Tension | 1 | 0.000 | 0.000 | 0.000 |
| | | | Max. Compression | 26 | -37.209 | -0.101 | -1.300 |
| | | | Max. M _x | 20 | -25.864 | 1173.902 | -0.989 |
| | | | Max. M _y | 14 | -25.864 | 0.010 | -1178.559 |
| | | | Max. V _y | 20 | -15.387 | 1173.902 | -0.989 |
| | | | Max. V _x | 14 | 15.426 | 0.010 | -1178.559 |
| | | | Max. Torque | 8 | | | -0.958 |

Maximum Reactions

| Location | Condition | Gov. Load Comb. | Vertical K | Horizontal, X K | Horizontal, Z K |
|----------|---------------------|-----------------|------------|-----------------|-----------------|
| Pole | Max. Vert | 26 | 37.209 | 0.000 | 0.000 |
| | Max. H _x | 20 | 25.869 | 15.377 | -0.000 |
| | Max. H _z | 2 | 25.869 | -0.000 | 15.417 |
| | Max. M _x | 2 | 1176.572 | -0.000 | 15.417 |
| | Max. M _z | 8 | 1173.877 | -15.377 | 0.000 |
| | Max. Torsion | 20 | 0.945 | 15.377 | -0.000 |
| | Min. Vert | 23 | 19.402 | 13.317 | 7.708 |
| | Min. H _x | 8 | 25.869 | -15.377 | 0.000 |
| | Min. H _z | 14 | 25.869 | 0.000 | -15.417 |
| | Min. M _x | 14 | -1178.559 | 0.000 | -15.417 |
| | Min. M _z | 20 | -1173.902 | 15.377 | -0.000 |
| | Min. Torsion | 8 | -0.958 | -15.377 | 0.000 |

Tower Mast Reaction Summary

| Load Combination | Vertical K | Shear _x K | Shear _z K | Overturning Moment, M _x kip-ft | Overturning Moment, M _z kip-ft | Torque kip-ft |
|-----------------------------------|------------|----------------------|----------------------|---|---|---------------|
| Dead Only | 21.558 | 0.000 | 0.000 | 0.799 | 0.016 | 0.000 |
| 1.2 Dead+1.0 Wind 0 deg - No Ice | 25.869 | 0.000 | -15.417 | -1176.572 | 0.016 | 0.195 |
| 0.9 Dead+1.0 Wind 0 deg - No Ice | 19.402 | 0.000 | -15.417 | -1169.560 | 0.014 | 0.188 |
| 1.2 Dead+1.0 Wind 30 deg - No Ice | 25.869 | 7.689 | -13.352 | -1018.808 | -586.928 | 0.643 |
| 0.9 Dead+1.0 Wind 30 deg - No Ice | 19.402 | 7.689 | -13.352 | -1012.770 | -583.309 | 0.635 |
| 1.2 Dead+1.0 Wind 60 deg - No Ice | 25.869 | 13.317 | -7.709 | -587.788 | -1016.603 | 0.924 |
| 0.9 Dead+1.0 Wind 60 deg - No Ice | 19.402 | 13.317 | -7.709 | -584.410 | -1010.333 | 0.917 |
| 1.2 Dead+1.0 Wind 90 deg - No Ice | 25.869 | 15.377 | -0.000 | 0.996 | -1173.877 | 0.958 |

tnxTower

B+T Group
 1717 S. Boulder, Suite 300
 Tulsa, OK 74119
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Project

Date
 17:27:03 08/17/23

Client

Crown Castle

Designed by
 V. RAO

| Load Combination | Vertical K | Shear _x K | Shear _z K | Overturning Moment, M _x kip-ft | Overturning Moment, M _z kip-ft | Torque kip-ft |
|--|---------------|-------------------------|-------------------------|---|---|------------------|
| 0.9 Dead+1.0 Wind 90 deg - No Ice | 19.402 | 15.377 | -0.000 | 0.740 | -1166.636 | 0.954 |
| 1.2 Dead+1.0 Wind 120 deg - No Ice | 25.869 | 13.317 | 7.708 | 589.779 | -1016.607 | 0.730 |
| 0.9 Dead+1.0 Wind 120 deg - No Ice | 19.402 | 13.317 | 7.708 | 585.890 | -1010.336 | 0.730 |
| 1.2 Dead+1.0 Wind 150 deg - No Ice | 25.869 | 7.689 | 13.351 | 1020.797 | -586.934 | 0.301 |
| 0.9 Dead+1.0 Wind 150 deg - No Ice | 19.402 | 7.689 | 13.351 | 1014.248 | -583.314 | 0.305 |
| 1.2 Dead+1.0 Wind 180 deg - No Ice | 25.869 | -0.000 | 15.417 | 1178.559 | 0.010 | -0.209 |
| 0.9 Dead+1.0 Wind 180 deg - No Ice | 19.402 | -0.000 | 15.417 | 1171.037 | 0.008 | -0.202 |
| 1.2 Dead+1.0 Wind 210 deg - No Ice | 25.869 | -7.689 | 13.352 | 1020.793 | 586.954 | -0.658 |
| 0.9 Dead+1.0 Wind 210 deg - No Ice | 19.402 | -7.689 | 13.352 | 1014.245 | 583.331 | -0.650 |
| 1.2 Dead+1.0 Wind 240 deg - No Ice | 25.869 | -13.317 | 7.709 | 589.773 | 1016.629 | -0.925 |
| 0.9 Dead+1.0 Wind 240 deg - No Ice | 19.402 | -13.317 | 7.709 | 585.885 | 1010.355 | -0.918 |
| 1.2 Dead+1.0 Wind 270 deg - No Ice | 25.869 | -15.377 | 0.000 | 0.989 | 1173.902 | -0.945 |
| 0.9 Dead+1.0 Wind 270 deg - No Ice | 19.402 | -15.377 | 0.000 | 0.735 | 1166.657 | -0.940 |
| 1.2 Dead+1.0 Wind 300 deg - No Ice | 25.869 | -13.317 | -7.708 | -587.794 | 1016.631 | -0.716 |
| 0.9 Dead+1.0 Wind 300 deg - No Ice | 19.402 | -13.317 | -7.708 | -584.415 | 1010.357 | -0.715 |
| 1.2 Dead+1.0 Wind 330 deg - No Ice | 25.869 | -7.689 | -13.351 | -1018.810 | 586.959 | -0.300 |
| 0.9 Dead+1.0 Wind 330 deg - No Ice | 19.402 | -7.689 | -13.351 | -1012.772 | 583.336 | -0.304 |
| 1.2 Dead+1.0 Ice+1.0 Temp | 37.209 | 0.000 | 0.000 | 1.300 | -0.101 | 0.000 |
| 1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp | 37.209 | 0.000 | -3.898 | -295.822 | -0.130 | 0.170 |
| 1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp | 37.209 | 1.945 | -3.376 | -256.007 | -148.364 | 0.342 |
| 1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp | 37.209 | 3.369 | -1.949 | -147.225 | -256.877 | 0.423 |
| 1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp | 37.209 | 3.891 | -0.000 | 1.375 | -296.594 | 0.391 |
| 1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp | 37.209 | 3.369 | 1.949 | 149.977 | -256.872 | 0.253 |
| 1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp | 37.209 | 1.945 | 3.376 | 258.762 | -148.356 | 0.048 |
| 1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp | 37.209 | -0.000 | 3.898 | 298.582 | -0.121 | -0.171 |
| 1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp | 37.209 | -1.945 | 3.376 | 258.767 | 148.113 | -0.343 |
| 1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp | 37.209 | -3.369 | 1.949 | 149.985 | 256.626 | -0.423 |
| 1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp | 37.209 | -3.891 | 0.000 | 1.385 | 296.342 | -0.390 |
| 1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp | 37.209 | -3.369 | -1.949 | -147.217 | 256.621 | -0.253 |
| 1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp | 37.209 | -1.945 | -3.376 | -256.002 | 148.104 | -0.048 |
| Dead+Wind 0 deg - Service | 21.558 | 0.000 | -3.570 | -270.824 | 0.012 | 0.045 |
| Dead+Wind 30 deg - Service | 21.558 | 1.781 | -3.092 | -234.430 | -135.387 | 0.149 |

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| | Project | Date 17:27:03 08/17/23 |
| | Client Crown Castle | Designed by V. RAO |

| Load Combination | Vertical K | Shear _x K | Shear _z K | Overturning Moment, M _x kip-ft | Overturning Moment, M _z kip-ft | Torque kip-ft |
|-----------------------------|---------------|-------------------------|-------------------------|---|---|------------------|
| Dead+Wind 60 deg - Service | 21.558 | 3.084 | -1.785 | -135.000 | -234.507 | 0.213 |
| Dead+Wind 90 deg - Service | 21.558 | 3.561 | -0.000 | 0.824 | -270.787 | 0.220 |
| Dead+Wind 120 deg - Service | 21.558 | 3.084 | 1.785 | 136.648 | -234.508 | 0.168 |
| Dead+Wind 150 deg - Service | 21.558 | 1.781 | 3.092 | 236.077 | -135.389 | 0.070 |
| Dead+Wind 180 deg - Service | 21.558 | -0.000 | 3.570 | 272.471 | 0.011 | -0.046 |
| Dead+Wind 210 deg - Service | 21.558 | -1.781 | 3.092 | 236.076 | 135.410 | -0.150 |
| Dead+Wind 240 deg - Service | 21.558 | -3.084 | 1.785 | 136.646 | 234.530 | -0.213 |
| Dead+Wind 270 deg - Service | 21.558 | -3.561 | 0.000 | 0.823 | 270.810 | -0.220 |
| Dead+Wind 300 deg - Service | 21.558 | -3.084 | -1.785 | -135.001 | 234.530 | -0.167 |
| Dead+Wind 330 deg - Service | 21.558 | -1.781 | -3.092 | -234.430 | 135.411 | -0.070 |

Solution Summary

| Load Comb. | Sum of Applied Forces | | | Sum of Reactions | | | % Error |
|------------|-----------------------|---------|---------|------------------|---------|---------|---------|
| | PX K | PY K | PZ K | PX K | PY K | PZ K | |
| 1 | 0.000 | -21.558 | 0.000 | 0.000 | 21.558 | 0.000 | 0.000% |
| 2 | 0.000 | -25.869 | -15.417 | -0.000 | 25.869 | 15.417 | 0.000% |
| 3 | 0.000 | -19.402 | -15.417 | -0.000 | 19.402 | 15.417 | 0.000% |
| 4 | 7.689 | -25.869 | -13.352 | -7.689 | 25.869 | 13.352 | 0.000% |
| 5 | 7.689 | -19.402 | -13.352 | -7.689 | 19.402 | 13.352 | 0.000% |
| 6 | 13.317 | -25.869 | -7.709 | -13.317 | 25.869 | 7.709 | 0.000% |
| 7 | 13.317 | -19.402 | -7.709 | -13.317 | 19.402 | 7.709 | 0.000% |
| 8 | 15.377 | -25.869 | -0.000 | -15.377 | 25.869 | 0.000 | 0.000% |
| 9 | 15.377 | -19.402 | -0.000 | -15.377 | 19.402 | 0.000 | 0.000% |
| 10 | 13.317 | -25.869 | 7.708 | -13.317 | 25.869 | -7.708 | 0.000% |
| 11 | 13.317 | -19.402 | 7.708 | -13.317 | 19.402 | -7.708 | 0.000% |
| 12 | 7.689 | -25.869 | 13.351 | -7.689 | 25.869 | -13.351 | 0.000% |
| 13 | 7.689 | -19.402 | 13.351 | -7.689 | 19.402 | -13.351 | 0.000% |
| 14 | -0.000 | -25.869 | 15.417 | 0.000 | 25.869 | -15.417 | 0.000% |
| 15 | -0.000 | -19.402 | 15.417 | 0.000 | 19.402 | -15.417 | 0.000% |
| 16 | -7.689 | -25.869 | 13.352 | 7.689 | 25.869 | -13.352 | 0.000% |
| 17 | -7.689 | -19.402 | 13.352 | 7.689 | 19.402 | -13.352 | 0.000% |
| 18 | -13.317 | -25.869 | 7.709 | 13.317 | 25.869 | -7.709 | 0.000% |
| 19 | -13.317 | -19.402 | 7.709 | 13.317 | 19.402 | -7.709 | 0.000% |
| 20 | -15.377 | -25.869 | 0.000 | 15.377 | 25.869 | -0.000 | 0.000% |
| 21 | -15.377 | -19.402 | 0.000 | 15.377 | 19.402 | -0.000 | 0.000% |
| 22 | -13.317 | -25.869 | -7.708 | 13.317 | 25.869 | 7.708 | 0.000% |
| 23 | -13.317 | -19.402 | -7.708 | 13.317 | 19.402 | 7.708 | 0.000% |
| 24 | -7.689 | -25.869 | -13.351 | 7.689 | 25.869 | 13.351 | 0.000% |
| 25 | -7.689 | -19.402 | -13.351 | 7.689 | 19.402 | 13.351 | 0.000% |
| 26 | 0.000 | -37.209 | 0.000 | 0.000 | 37.209 | 0.000 | 0.000% |
| 27 | 0.000 | -37.209 | -3.898 | -0.000 | 37.209 | 3.898 | 0.000% |
| 28 | 1.945 | -37.209 | -3.376 | -1.945 | 37.209 | 3.376 | 0.000% |
| 29 | 3.369 | -37.209 | -1.949 | -3.369 | 37.209 | 1.949 | 0.000% |
| 30 | 3.891 | -37.209 | -0.000 | -3.891 | 37.209 | 0.000 | 0.000% |
| 31 | 3.369 | -37.209 | 1.949 | -3.369 | 37.209 | -1.949 | 0.000% |
| 32 | 1.945 | -37.209 | 3.376 | -1.945 | 37.209 | -3.376 | 0.000% |
| 33 | -0.000 | -37.209 | 3.898 | 0.000 | 37.209 | -3.898 | 0.000% |
| 34 | -1.945 | -37.209 | 3.376 | 1.945 | 37.209 | -3.376 | 0.000% |
| 35 | -3.369 | -37.209 | 1.949 | 3.369 | 37.209 | -1.949 | 0.000% |
| 36 | -3.891 | -37.209 | 0.000 | 3.891 | 37.209 | -0.000 | 0.000% |
| 37 | -3.369 | -37.209 | -1.949 | 3.369 | 37.209 | 1.949 | 0.000% |
| 38 | -1.945 | -37.209 | -3.376 | 1.945 | 37.209 | 3.376 | 0.000% |
| 39 | 0.000 | -21.558 | -3.570 | -0.000 | 21.558 | 3.570 | 0.000% |
| 40 | 1.781 | -21.558 | -3.092 | -1.781 | 21.558 | 3.092 | 0.000% |
| 41 | 3.084 | -21.558 | -1.785 | -3.084 | 21.558 | 1.785 | 0.000% |
| 42 | 3.561 | -21.558 | -0.000 | -3.561 | 21.558 | 0.000 | 0.000% |

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| | Project | Date 17:27:03 08/17/23 |
| | Client Crown Castle | Designed by V. RAO |

| Load Comb. | Sum of Applied Forces | | | Sum of Reactions | | | % Error |
|------------|-----------------------|---------|--------|------------------|--------|--------|---------|
| | PX K | PY K | PZ K | PX K | PY K | PZ K | |
| 43 | 3.084 | -21.558 | 1.785 | -3.084 | 21.558 | -1.785 | 0.000% |
| 44 | 1.781 | -21.558 | 3.092 | -1.781 | 21.558 | -3.092 | 0.000% |
| 45 | -0.000 | -21.558 | 3.570 | 0.000 | 21.558 | -3.570 | 0.000% |
| 46 | -1.781 | -21.558 | 3.092 | 1.781 | 21.558 | -3.092 | 0.000% |
| 47 | -3.084 | -21.558 | 1.785 | 3.084 | 21.558 | -1.785 | 0.000% |
| 48 | -3.561 | -21.558 | 0.000 | 3.561 | 21.558 | -0.000 | 0.000% |
| 49 | -3.084 | -21.558 | -1.785 | 3.084 | 21.558 | 1.785 | 0.000% |
| 50 | -1.781 | -21.558 | -3.092 | 1.781 | 21.558 | 3.092 | 0.000% |

Non-Linear Convergence Results

| Load Combination | Converged? | Number of Cycles | Displacement Tolerance | Force Tolerance |
|------------------|------------|------------------|------------------------|-----------------|
| 1 | Yes | 4 | 0.00000001 | 0.00000001 |
| 2 | Yes | 4 | 0.00000001 | 0.00006082 |
| 3 | Yes | 4 | 0.00000001 | 0.00003752 |
| 4 | Yes | 4 | 0.00000001 | 0.00097918 |
| 5 | Yes | 4 | 0.00000001 | 0.00063804 |
| 6 | Yes | 4 | 0.00000001 | 0.00087392 |
| 7 | Yes | 4 | 0.00000001 | 0.00056792 |
| 8 | Yes | 4 | 0.00000001 | 0.00011909 |
| 9 | Yes | 4 | 0.00000001 | 0.00007752 |
| 10 | Yes | 4 | 0.00000001 | 0.00096951 |
| 11 | Yes | 4 | 0.00000001 | 0.00063099 |
| 12 | Yes | 4 | 0.00000001 | 0.00092813 |
| 13 | Yes | 4 | 0.00000001 | 0.00060277 |
| 14 | Yes | 4 | 0.00000001 | 0.00006307 |
| 15 | Yes | 4 | 0.00000001 | 0.00003906 |
| 16 | Yes | 4 | 0.00000001 | 0.00088581 |
| 17 | Yes | 4 | 0.00000001 | 0.00057513 |
| 18 | Yes | 4 | 0.00000001 | 0.00099436 |
| 19 | Yes | 4 | 0.00000001 | 0.00064783 |
| 20 | Yes | 4 | 0.00000001 | 0.00011675 |
| 21 | Yes | 4 | 0.00000001 | 0.00007597 |
| 22 | Yes | 4 | 0.00000001 | 0.00089424 |
| 23 | Yes | 4 | 0.00000001 | 0.00058158 |
| 24 | Yes | 4 | 0.00000001 | 0.00093247 |
| 25 | Yes | 4 | 0.00000001 | 0.00060729 |
| 26 | Yes | 4 | 0.00000001 | 0.00000001 |
| 27 | Yes | 4 | 0.00000001 | 0.00054541 |
| 28 | Yes | 4 | 0.00000001 | 0.00056951 |
| 29 | Yes | 4 | 0.00000001 | 0.00056904 |
| 30 | Yes | 4 | 0.00000001 | 0.00054974 |
| 31 | Yes | 4 | 0.00000001 | 0.00057470 |
| 32 | Yes | 4 | 0.00000001 | 0.00057549 |
| 33 | Yes | 4 | 0.00000001 | 0.00055310 |
| 34 | Yes | 4 | 0.00000001 | 0.00057331 |
| 35 | Yes | 4 | 0.00000001 | 0.00057277 |
| 36 | Yes | 4 | 0.00000001 | 0.00054668 |
| 37 | Yes | 4 | 0.00000001 | 0.00056619 |
| 38 | Yes | 4 | 0.00000001 | 0.00056642 |
| 39 | Yes | 4 | 0.00000001 | 0.00000001 |
| 40 | Yes | 4 | 0.00000001 | 0.00001852 |
| 41 | Yes | 4 | 0.00000001 | 0.00001476 |
| 42 | Yes | 4 | 0.00000001 | 0.00000882 |
| 43 | Yes | 4 | 0.00000001 | 0.00001799 |

| | | |
|--|---|----------------------------------|
| tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265 | Job 87395.007.01.0001 - NHV 113 943126, CT (BU# 806360) | Page 12 of 14 |
| | Project | Date 17:27:03 08/17/23 |
| | Client Crown Castle | Designed by V. RAO |

| | | | | |
|----|-----|---|------------|------------|
| 44 | Yes | 4 | 0.00000001 | 0.00001600 |
| 45 | Yes | 4 | 0.00000001 | 0.00000690 |
| 46 | Yes | 4 | 0.00000001 | 0.00001491 |
| 47 | Yes | 4 | 0.00000001 | 0.00001944 |
| 48 | Yes | 4 | 0.00000001 | 0.00000877 |
| 49 | Yes | 4 | 0.00000001 | 0.00001491 |
| 50 | Yes | 4 | 0.00000001 | 0.00001614 |

Maximum Tower Deflections - Service Wind

| Section No. | Elevation ft | Horz. Deflection in | Gov. Load Comb. | Tilt ° | Twist ° |
|-------------|-----------------|------------------------|-----------------|-----------|------------|
| L1 | 110 - 67.333 | 7.472 | 45 | 0.561 | 0.001 |
| L2 | 72 - 29.417 | 3.306 | 45 | 0.433 | 0.001 |
| L3 | 35 - 0 | 0.775 | 45 | 0.198 | 0.000 |

Critical Deflections and Radius of Curvature - Service Wind

| Elevation ft | Appurtenance | Gov. Load Comb. | Deflection in | Tilt ° | Twist ° | Radius of Curvature ft |
|-----------------|---------------------------|-----------------|------------------|-----------|------------|---------------------------|
| 109.000 | GPS_A | 45 | 7.354 | 0.559 | 0.001 | 72527 |
| 98.000 | (2) DB846F65ZAXY | 45 | 6.070 | 0.530 | 0.001 | 30219 |
| 93.000 | Platform Mount [LP 714-1] | 45 | 5.500 | 0.515 | 0.001 | 21331 |
| 88.000 | Side Arm Mount [SO 901-1] | 45 | 4.944 | 0.499 | 0.001 | 16483 |
| 80.000 | DB225-A | 45 | 4.093 | 0.470 | 0.001 | 12087 |
| 72.000 | Side Arm Mount [SO 901-1] | 45 | 3.306 | 0.433 | 0.001 | 9695 |
| 68.000 | Side Arm Mount [SO 901-1] | 45 | 2.941 | 0.412 | 0.001 | 9269 |
| 60.000 | DB225-A | 45 | 2.273 | 0.364 | 0.001 | 8765 |
| 52.000 | Side Arm Mount [SO 901-1] | 45 | 1.694 | 0.312 | 0.001 | 8313 |

Maximum Tower Deflections - Design Wind

| Section No. | Elevation ft | Horz. Deflection in | Gov. Load Comb. | Tilt ° | Twist ° |
|-------------|-----------------|------------------------|-----------------|-----------|------------|
| L1 | 110 - 67.333 | 32.319 | 14 | 2.429 | 0.004 |
| L2 | 72 - 29.417 | 14.296 | 14 | 1.873 | 0.004 |
| L3 | 35 - 0 | 3.352 | 14 | 0.858 | 0.001 |

Critical Deflections and Radius of Curvature - Design Wind

| Elevation ft | Appurtenance | Gov. Load Comb. | Deflection in | Tilt ° | Twist ° | Radius of Curvature ft |
|-----------------|--------------|-----------------|------------------|-----------|------------|---------------------------|
| 109.000 | GPS_A | 14 | 31.811 | 2.418 | 0.004 | 16837 |

| | | |
|--|---|----------------------------------|
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| | Project | Date 17:27:03 08/17/23 |
| | Client Crown Castle | Designed by V. RAO |

| Elevation | Appurtenance | Gov. Load Comb. | Deflection in | Tilt ° | Twist ° | Radius of Curvature ft |
|-----------|---------------------------|-----------------|---------------|--------|---------|------------------------|
| 98.000 | (2) DB846F65ZAXY | 14 | 26.256 | 2.293 | 0.004 | 7015 |
| 93.000 | Platform Mount [LP 714-1] | 14 | 23.789 | 2.230 | 0.004 | 4951 |
| 88.000 | Side Arm Mount [SO 901-1] | 14 | 21.382 | 2.161 | 0.004 | 3825 |
| 80.000 | DB225-A | 14 | 17.702 | 2.032 | 0.004 | 2804 |
| 72.000 | Side Arm Mount [SO 901-1] | 14 | 14.296 | 1.873 | 0.004 | 2249 |
| 68.000 | Side Arm Mount [SO 901-1] | 14 | 12.718 | 1.781 | 0.003 | 2149 |
| 60.000 | DB225-A | 14 | 9.832 | 1.575 | 0.003 | 2030 |
| 52.000 | Side Arm Mount [SO 901-1] | 14 | 7.326 | 1.349 | 0.002 | 1923 |

Compression Checks

Pole Design Data

| Section No. | Elevation ft | Size | L ft | L _u ft | Kl/r | A in ² | P _u K | φP _n K | Ratio $\frac{P_u}{\phi P_n}$ |
|-------------|---------------------|----------------------|--------|-------------------|------|-------------------|------------------|-------------------|------------------------------|
| L1 | 110 - 67.333 (1) | TP30.45x21.91x0.219 | 42.667 | 0.000 | 0.0 | 20.636 | -10.477 | 1207.220 | 0.009 |
| L2 | 67.333 - 29.417 (2) | TP37.6x29.078x0.313 | 42.583 | 0.000 | 0.0 | 36.396 | -17.013 | 2129.180 | 0.008 |
| L3 | 29.417 - 0 (3) | TP42.85x35.858x0.406 | 35.000 | 0.000 | 0.0 | 55.522 | -25.864 | 3248.020 | 0.008 |

Pole Bending Design Data

| Section No. | Elevation ft | Size | M _{ux} kip-ft | φM _{ux} kip-ft | Ratio $\frac{M_{ux}}{\phi M_{ux}}$ | M _{uy} kip-ft | φM _{uy} kip-ft | Ratio $\frac{M_{uy}}{\phi M_{uy}}$ |
|-------------|---------------------|----------------------|------------------------|-------------------------|------------------------------------|------------------------|-------------------------|------------------------------------|
| L1 | 110 - 67.333 (1) | TP30.45x21.91x0.219 | 251.246 | 740.128 | 0.339 | 0.000 | 740.128 | 0.000 |
| L2 | 67.333 - 29.417 (2) | TP37.6x29.078x0.313 | 681.094 | 1737.958 | 0.392 | 0.000 | 1737.958 | 0.000 |
| L3 | 29.417 - 0 (3) | TP42.85x35.858x0.406 | 1178.558 | 3250.250 | 0.363 | 0.000 | 3250.250 | 0.000 |

Pole Shear Design Data

| Section No. | Elevation ft | Size | Actual V _u K | φV _n K | Ratio $\frac{V_u}{\phi V_n}$ | Actual T _u kip-ft | φT _n kip-ft | Ratio $\frac{T_u}{\phi T_n}$ |
|-------------|---------------------|----------------------|-------------------------|-------------------|------------------------------|------------------------------|------------------------|------------------------------|
| L1 | 110 - 67.333 (1) | TP30.45x21.91x0.219 | 10.031 | 362.165 | 0.028 | 0.547 | 933.325 | 0.001 |
| L2 | 67.333 - 29.417 (2) | TP37.6x29.078x0.313 | 12.999 | 632.407 | 0.021 | 0.160 | 2032.292 | 0.000 |
| L3 | 29.417 - 0 (3) | TP42.85x35.858x0.406 | 15.426 | 967.305 | 0.016 | 0.209 | 3637.925 | 0.000 |

| | | |
|--|---|----------------------------------|
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| | Project | Date 17:27:03 08/17/23 |
| | Client Crown Castle | Designed by V. RAO |

Pole Interaction Design Data

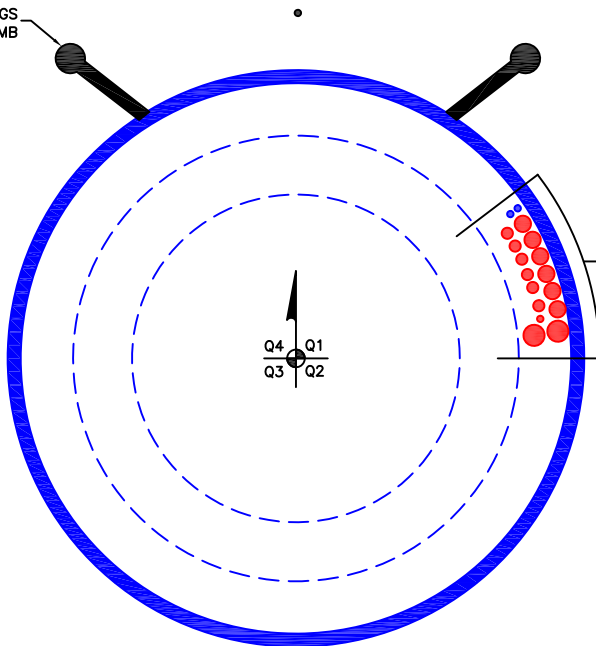
| Section No. | Elevation ft | Ratio P_u | Ratio M_{ux} | Ratio M_{uy} | Ratio V_u | Ratio T_u | Comb. Stress Ratio | Allow. Stress Ratio | Criteria |
|-------------|------------------------|----------------|-------------------|-------------------|----------------|----------------|--------------------------|---------------------------|----------|
| | | ϕP_n | ϕM_{ux} | ϕM_{uy} | ϕV_n | ϕT_n | | | |
| L1 | 110 - 67.333 (1) | 0.009 | 0.339 | 0.000 | 0.028 | 0.001 | 0.349 ✓ | 1.050 | 4.8.2 ✓ |
| L2 | 67.333 - 29.417 (2) | 0.008 | 0.392 | 0.000 | 0.021 | 0.000 | 0.400 ✓ | 1.050 | 4.8.2 ✓ |
| L3 | 29.417 - 0 (3) | 0.008 | 0.363 | 0.000 | 0.016 | 0.000 | 0.371 ✓ | 1.050 | 4.8.2 ✓ |

Section Capacity Table

| Section No. | Elevation ft | Component Type | Size | Critical Element | P K | ϕP_{allow} K | % Capacity | Pass Fail |
|-----------------|-----------------|-------------------|----------------------|---------------------|---------|-----------------------|---------------|--------------|
| L1 | 110 - 67.333 | Pole | TP30.45x21.91x0.219 | 1 | -10.477 | 1267.581 | 33.2 | Pass |
| L2 | 67.333 - 29.417 | Pole | TP37.6x29.078x0.313 | 2 | -17.013 | 2235.639 | 38.1 | Pass |
| L3 | 29.417 - 0 | Pole | TP42.85x35.858x0.406 | 3 | -25.864 | 3410.421 | 35.3 | Pass |
| Summary | | | | | | | | |
| Pole (L2) | | | | | | | 38.1 | Pass |
| RATING = | | | | | | | 38.1 | Pass |

APPENDIX B
BASE LEVEL DRAWING

CLIMBING PEGS
W/ SAFETY CLIMB



- (OTHER CONSIDERED EQUIPMENT)
- (1) 1/2" TO 60 FT LEVEL
 - (1) 1/2" TO 80 FT LEVEL
- (PROPOSED EQUIPMENT CONFIGURATION)
- (6) 7/8" TO 98 FT LEVEL
 - (6) 1-1/4" TO 98 FT LEVEL
 - (2) 1-5/8" TO 98 FT LEVEL
 - (1) 1/2" TO 109 FT LEVEL

BUSINESS UNIT: 806360

APPENDIX C
ADDITIONAL CALCULATIONS

Monopole Base Plate Connection

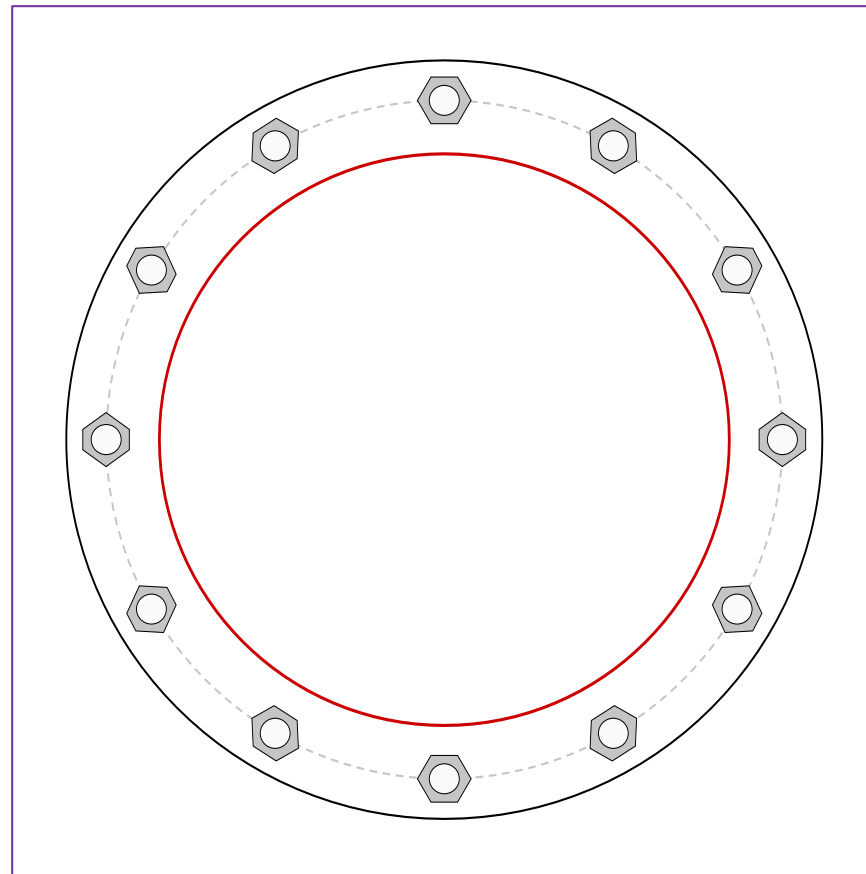


| Site Info | |
|-----------|--------------------|
| BU # | 806360 |
| Site Name | NHV 113 943126, CT |
| Order # | 654624, Rev# 0 |

| Analysis Considerations | |
|-------------------------|-----|
| TIA-222 Revision | H |
| Grout Considered: | No |
| l_{ar} (in) | 0.5 |

| Applied Loads | |
|--------------------|---------|
| Moment (kip-ft) | 1178.56 |
| Axial Force (kips) | 25.86 |
| Shear Force (kips) | 15.43 |

*TIA-222-H Section 15.5 Applied



| Connection Properties | Analysis Results |
|-----------------------|------------------|
|-----------------------|------------------|

| Anchor Rod Data |
|--|
| (12) 2-1/4" ϕ bolts (A615-75 N; $F_y=75$ ksi, $F_u=100$ ksi) on 50.86" BC |
| Base Plate Data |
| 56.86" OD x 2.75" Plate (S-128; $F_y=60$ ksi, $F_u=80$ ksi) |
| Stiffener Data |
| N/A |
| Pole Data |
| 42.85" x 0.40625" 12-sided pole (A572-65; $F_y=65$ ksi, $F_u=80$ ksi) |

| Anchor Rod Summary | | <i>(units of kips, kip-in)</i> |
|-------------------------|-------------------------|--------------------------------|
| $P_{u,t} = 90.46$ | $\phi P_{n,t} = 243.75$ | Stress Rating |
| $V_u = 1.29$ | $\phi V_n = 149.1$ | 35.3% |
| $M_u = n/a$ | $\phi M_n = n/a$ | Pass |
| Base Plate Summary | | |
| Max Stress (ksi): | 11.1 | (Flexural) |
| Allowable Stress (ksi): | 54 | |
| Stress Rating: | 19.6% | Pass |

Drilled Pier Foundation

| | |
|-------------------|--------------------|
| BU # : | 806360 |
| Site Name: | NHV 113 943126, CT |
| Order Number: | 654624, Rev# 0 |
| TIA-222 Revision: | H |
| Tower Type: | Monopole |



| Applied Loads | | |
|--------------------|-------|--------|
| | Comp. | Uplift |
| Moment (kip-ft) | 1179 | |
| Axial Force (kips) | 26 | |
| Shear Force (kips) | 15 | |

| Material Properties | | |
|--------------------------|----|-----|
| Concrete Strength, f'c: | 3 | ksi |
| Rebar Strength, Fy: | 60 | ksi |
| Tie Yield Strength, Fyt: | 60 | ksi |

| Pier Design Data | | |
|---|-----|----|
| Depth | 32 | ft |
| Ext. Above Grade | 0.5 | ft |
| Pier Section 1 | | |
| <i>From 0.5' above grade to 32' below grade</i> | | |
| Pier Diameter | 6 | ft |
| Rebar Quantity | 32 | |
| Rebar Size | 11 | |
| Clear Cover to Ties | 3 | in |
| Tie Size | 4 | |
| Tie Spacing | 12 | in |

| Rebar 2, Fy Override (ksi) | Rebar 3, Fy Override (ksi) |
|----------------------------|----------------------------|
| | |

Rebar & Pier Options
Embedded Pole Inputs
Belled Pier Inputs

Analysis Results

| Soil Lateral Check | Compression | Uplift |
|--------------------------------|-------------|--------|
| D _{v=0} (ft from TOC) | 5.95 | - |
| Soil Safety Factor | 8.78 | - |
| Max Moment (kip-ft) | 1252.89 | - |
| Rating* | 14.4% | - |

| Soil Vertical Check | Compression | Uplift |
|---------------------------|-------------|--------|
| Skin Friction (kips) | 289.80 | - |
| End Bearing (kips) | 0.00 | - |
| Weight of Concrete (kips) | 112.46 | - |
| Total Capacity (kips) | 289.80 | - |
| Axial (kips) | 138.46 | - |
| Rating* | 45.5% | - |

| Reinforced Concrete Flexure | Compression | Uplift |
|------------------------------|-------------|--------|
| Critical Depth (ft from TOC) | 6.00 | - |
| Critical Moment (kip-ft) | 1252.88 | - |
| Critical Moment Capacity | 6196.92 | - |
| Rating* | 19.3% | - |

| Reinforced Concrete Shear | Compression | Uplift |
|------------------------------|-------------|--------|
| Critical Depth (ft from TOC) | 19.22 | - |
| Critical Shear (kip) | 93.55 | - |
| Critical Shear Capacity | 427.73 | - |
| Rating* | 20.8% | - |

| | |
|-------------------------------|-------|
| Structural Foundation Rating* | 20.8% |
| Soil Interaction Rating* | 45.5% |

*Rating per TIA-222-H Section 15.5

| Check Limitation | |
|---------------------------------------|-------------------------------------|
| Apply TIA-222-H Section 15.5: | <input checked="" type="checkbox"/> |
| N/A | <input type="checkbox"/> |
| Additional Longitudinal Rebar | |
| Input Effective Depths (else Actual): | <input type="checkbox"/> |
| Shear Design Options | |
| Check Shear along Depth of Pier: | <input checked="" type="checkbox"/> |
| Utilize Shear-Friction Methodology: | <input type="checkbox"/> |
| Override Critical Depth: | <input type="checkbox"/> |

[Go to Soil Calculations](#)

| Soil Profile | | | |
|-------------------|---|-------------|---|
| Groundwater Depth | 7 | # of Layers | 3 |

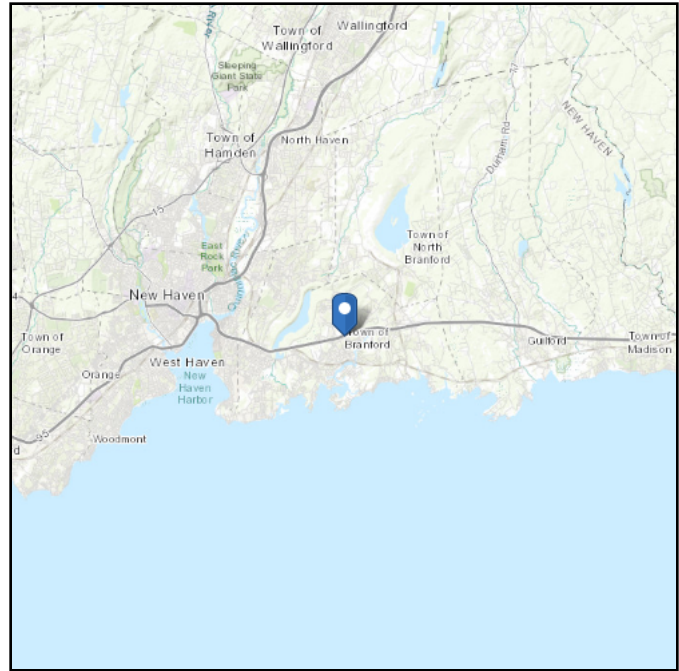
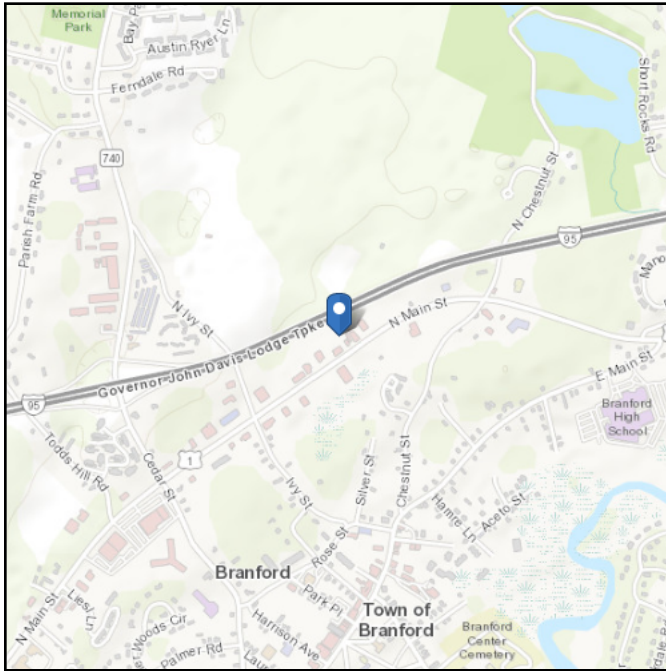
| Layer | Top (ft) | Bottom (ft) | Thickness (ft) | γ _{soil} (pcf) | γ _{concrete} (pcf) | Cohesion (ksf) | Angle of Friction (degrees) | Calculated Ultimate Skin Friction Comp (ksf) | Calculated Ultimate Skin Friction Uplift (ksf) | Ultimate Skin Friction Comp Override (ksf) | Ultimate Skin Friction Uplift Override (ksf) | Ult. Gross Bearing Capacity (ksf) | SPT Blow Count | Soil Type |
|-------|----------|-------------|----------------|-------------------------|-----------------------------|----------------|-----------------------------|--|--|--|--|-----------------------------------|----------------|--------------|
| 1 | 0 | 3.33 | 3.33 | 155 | 150 | 0 | 0 | 0.000 | 0.000 | 0.00 | 0.00 | | | Cohesionless |
| 2 | 3.33 | 7 | 3.67 | 155 | 150 | 1.3 | 0 | 0.715 | 0.715 | | | | | Cohesive |
| 3 | 7 | 32 | 25 | 92.6 | 87.6 | 1.3 | 0 | 0.715 | 0.715 | | | 0 | | Cohesive |

ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-16
Risk Category: II
Soil Class: D - Stiff Soil

Latitude: 41.289658
Longitude: -72.811728
Elevation: 59.330021009453 ft (NAVD 88)



Wind

Results:

| | |
|--------------|----------|
| Wind Speed | 121 Vmph |
| 10-year MRI | 75 Vmph |
| 25-year MRI | 85 Vmph |
| 50-year MRI | 92 Vmph |
| 100-year MRI | 99 Vmph |

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2

Date Accessed: Sat Jul 29 2023

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

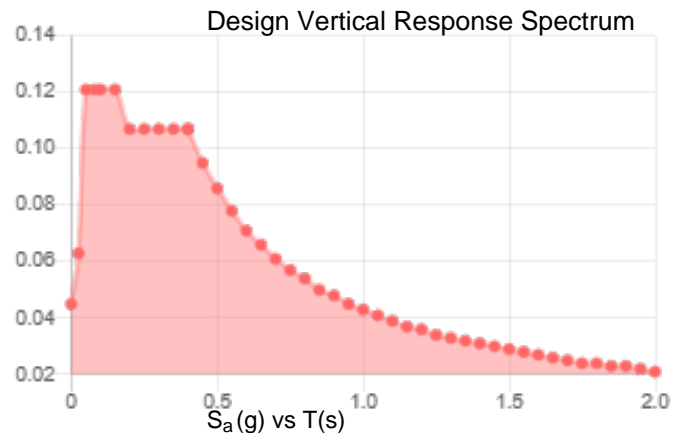
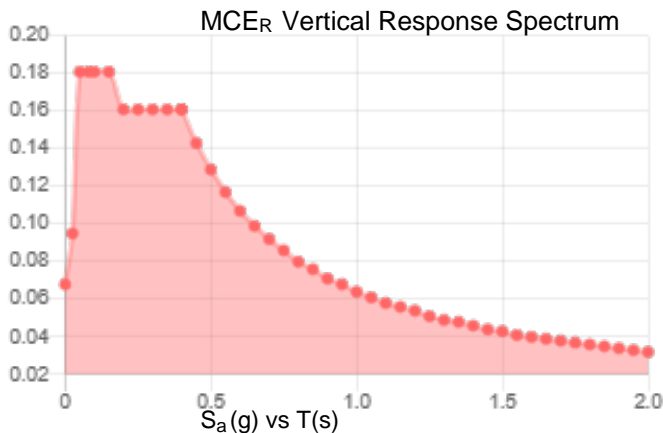
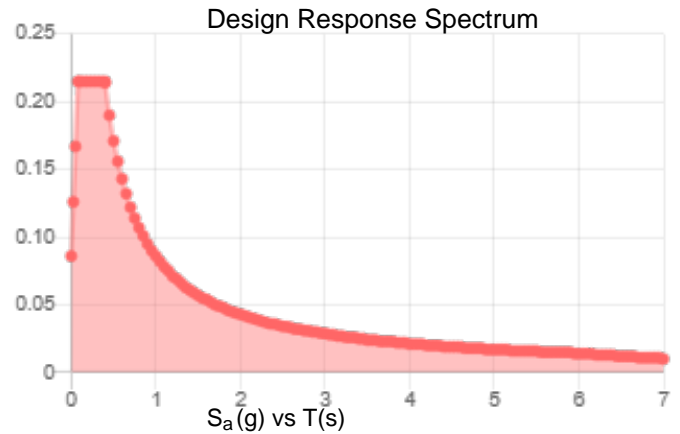
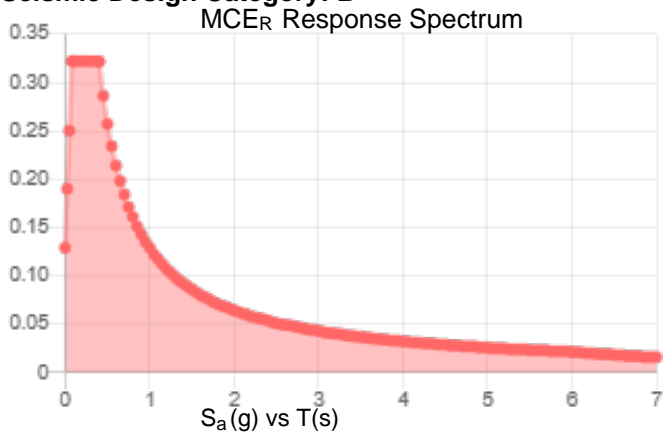
Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

Site Soil Class:

Results:

| | | | |
|------------|-------|--------------------|-------|
| S_s : | 0.201 | S_{D1} : | 0.086 |
| S_1 : | 0.054 | T_L : | 6 |
| F_a : | 1.6 | PGA : | 0.113 |
| F_v : | 2.4 | PGA _M : | 0.177 |
| S_{MS} : | 0.322 | F_{PGA} : | 1.575 |
| S_{M1} : | 0.129 | I_e : | 1 |
| S_{DS} : | 0.215 | C_v : | 0.703 |

Seismic Design Category: B



Data Accessed:

Sat Jul 29 2023

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness: 1.00 in.
Concurrent Temperature: 15 F
Gust Speed 50 mph

Data Source: Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8

Date Accessed: Sat Jul 29 2023

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 500-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

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