Crown Castle
3 Corporate Park Drive, Suite 101
Clifton Park, NY 12065

August 22, 2023

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

RE: **Notice of Exempt Modification for Verizon**
Crown #876382_Crown_VZW
1684 Chamberlain Highway, Berlin, CT 06037
Latitude: 41° 35′ 23.07″ / Longitude: -72° 48′ 19.20″

Dear Ms. Bachman:

Verizon Wireless is requesting to file an exempt modification for an existing tower located at 1684 Chamberlain Highway, Berlin, CT 06037. The property is owned by Ronald & Arlene Laviana and the tower is owned by Crown Castle. Verizon now intends to add two (2) interference mitigation filters to be installed at the 94-foot level of the tower of the 133-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:
(2) Kaelus BSF0020F3V1-1 Twin Bandstop 900MHZ Interference Mitigation Filters

The original facility was approved by the Town of Berlin Planning & Zoning Commission on March 23, 2000 via the granting of a Special Permit. Notice of Decision, dated April 11, 2000, is the only record able to be located. 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.SA. § 16-SOj-73, a copy of this letter is being sent to Mayor Mark Kaczynski and Town Planner/ZEO Maureen Giusti for the municipality. A copy is also being sent to Ronald & Arlene Laviana 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.
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

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

Attachments

cc:

Mayor Mark Kaczynski
Town of Berlin
240 Kensington Street
Berlin, CT 06037
860-878-7000

Town Planner/ZEO Maureen Giusti
Town of Berlin
240 Kensington Street
Berlin, CT 06037
860-878-7000

Ronald & Arlene Laviana, Property Owner
1684 Chamberlain Highway
Berlin, CT 06037

Crown Castle, Tower Owner

From: TrackingUpdates@fedex.com
To: Tatasciore, Domenica
Subject: FedEx Shipment 773074017399: Your package has been delivered
Date: Tuesday, August 22, 2023 10:09:05 AM

FedEx

Hi. Your package was delivered Tue, 08/22/2023 at 10:00am.

Delivered to 240 KENSINGTON RD, BERLIN, CT 06037

OBTAIN PROOF OF DELIVERY

TRACKING NUMBER 773074017399

FROM Crown Castle
1800 West Park Drive
Suite 200

	WESTBOROUGH, MA, US, 01581
TO	Town of Berlin Mayor Mark Kaczynski 240 Kensington Street BERLIN, CT, US, 06037
REFERENCE	799001.7680
SHIPPER REFERENCE	799001.7680
SHIP DATE	Mon 8/21/2023 05:53 PM
PACKAGING TYPE	FedEx Envelope
ORIGIN	WESTBOROUGH, MA, US, 01581
DESTINATION	BERLIN, CT, US, 06037
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

From: TrackingUpdates@fedex.com
To: Tatasciore, Domenica
Subject: FedEx Shipment 773074035836: Your package has been delivered
Date: Tuesday, August 22, 2023 10:09:24 AM

FedEx

Hi. Your package was delivered Tue, 08/22/2023 at 10:00am.

Delivered to 240 KENSINGTON RD, BERLIN, CT 06037

OBTAIN PROOF OF DELIVERY

TRACKING NUMBER 773074035836

FROM Crown Castle
1800 West Park Drive
Suite 200

	WESTBOROUGH, MA, US, 01581
TO	Town of Berlin Town Planner/ZEO Maureen Giusti 240 Kensington Street BERLIN, CT, US, 06037
REFERENCE	799001.7680
SHIPPER REFERENCE	799001.7680
SHIP DATE	Mon 8/21/2023 05:53 PM
PACKAGING TYPE	FedEx Envelope
ORIGIN	WESTBOROUGH, MA, US, 01581
DESTINATION	BERLIN, CT, US, 06037
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	0.50 LB
SERVICE TYPE	FedEx Priority Overnight

From: TrackingUpdates@fedex.com
To: Tatasciore, Domenica
Subject: FedEx Shipment 773074053515: Your package has been delivered
Date: Tuesday, August 22, 2023 11:59:51 AM

FedEx

Hi. Your package was delivered Tue, 08/22/2023 at 11:53am.

Delivered to 1684 CHAMBERLAIN HWY, BERLIN, CT 06037

OBTAIN PROOF OF DELIVERY

Delivery picture not showing? View in browser.

TRACKING NUMBER	773074053515
FROM	Crown Castle 1800 West Park Drive Suite 200 WESTBOROUGH, MA, US, 01581
TO	Ronald & Arlene Laviana 1684 Chamberlain Highway BERLIN, CT, US, 06037
REFERENCE	799001.7680
SHIPPER REFERENCE	799001.7680
SHIP DATE	Mon 8/21/2023 05:53 PM
DELIVERED TO	Residence
PACKAGING TYPE	FedEx Envelope
ORIGIN	WESTBOROUGH, MA, US, 01581
DESTINATION	BERLIN, CT, US, 06037
SPECIAL HANDLING	Residential Delivery
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	0.50 LB
SERVICE TYPE	FedEx Priority Overnight

VOL. 433 PAGE 0333

Town of Berlin

Department of Development Services

April 11, 2000

NOTICE OF DECISION

BERLIN PLANNING AND ZONING COMMISSION

Application: Special Permit - #00-02-SP

Applicant: SPRINT Spectrum L.P. dba SPRINT PCS

Location: Lot 17, Block 15, Chamberlain Highway

At its Regular Meeting of March 23, 2000, the Berlin Planning and Zoning voted five to two to grant the Special Permit Application of SPRINT Spectrum L.P., d/b/a SPRINT PCS for a telecommunications tower and related equipment at Lot 17, Block 15, Chamberlain Highway.

Brian J. Miller, AICP
Director of Development Services

Lawrence J. & Nellie C. Laviana
Owner of Record

Certified Mail (Return Receipt Requested): 7099 3400 0001 5361 6271

Visit Our Web Site: http://www.edc.ci.berlin.ct.us

Town of Berlin, Connecticut • Planning and Zoning Commission
240 Kensington Road • Berlin, CT 06037 • (860) 828-7060 • Fax (860) 828-7180

RECEIVED May 3 20 00
AT 12 HR 58 MIN p.m.
AND RECORDED IN
BERLIN LAND RECORDS
VOL 433 PAGE 333
Cheryl Deftu
ASST TOWN CLERK

Town of Berlin, CT

Property Listing Report

Map Block Lot	19-4-15-17	Building #	1	PID	3445	Account	1036200

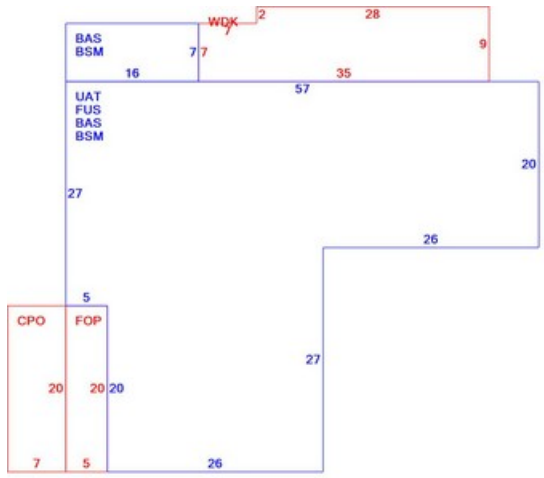
Property Information

Property Location	1684 CHAMBERLAIN HWY
Owner	LAVIANA RONALD L & ARLENE G
Co-Owner	
Mailing Address	1684 CHAMBERLAIN HWY KENSINGTON CT 06037
Land Use	1070 SFR w/Inlaw
Land Class	R
Zoning Code	MR-1
Census Tract	4002

District	0
Acreage	65.05
Utilities	Gas,Well,Septic
Book / Page	0456/0137

Photo

Sketch



Primary Construction Details

Year Built	1800
Building Desc.	SFR w/Inlaw
Building Style	Colonial
Stories	2
Occupancy	1.00
Exterior Walls	Vinyl Siding
Exterior Walls 2	
Roof Style	Gable
Roof Cover	Asph/F Gls/Cmp
Interior Walls	Drywall
Interior Walls 2	
Interior Floors 1	Carpet
Interior Floors 2	

Heating Fuel	Gas/Oil
Heating Type	Hot Water
AC Type	None
Bedrooms	6 Bedrooms
Full Bathrooms	3
Half Bathrooms	0
Extra Fixtures	0
Total Rooms	12
Bath Style	Average
Kitchen Style	Average
Fin BSMT Area	
Fin BSMT Quality	
Fin BSMT Area 2	
Fin BSMT Qual 2	

BSMT Garages	0
Fireplaces	2
Whirlpool Tub	0
Building Use	Residential
Building Condition	A

Industrial / Commercial Details
(*Residential Not Applicable)

Heat / AC	NA
Frame Type	NA
Baths / Plumbing	NA
Ceiling / Wall	NA
Rooms / Prtns	NA
Wall Height	NA
First Floor Use	NA

Report Created On 8/16/2023

Town of Berlin, CT

Property Listing Report

Map Block Lot	19-4-15-17	Building #	1	PID	3445	Account	1036200

Valuation Summary

(Assessed value = 70% of Appraised Value)

Item	Appraised	Assessed
Buildings	278100	194700
Extras	7500	5300
Improvements		
Outbuildings	324500	227100
Land	1409300	130370
Total	2019400	557470

Outbuilding and Extra Features

Type	Description
Barn 1 Story	638 S.F.
Barn 1 Sty w/Bsm	2100 S.F.
Garage - Avg	504 S.F.
Shed Wd Res	420 S.F.
Cell Tower	150 S.F.
Generator	22 UNITS

Sub Areas

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
Upper Story, Finished	1877	1877
Deck, Wood	301	0
Basement	1989	0
Attic, Unfinished	1877	0
First Floor	1989	1989
Concrete Patio	140	0
Porch, Open, Finished	100	0
Total Area	8273	3866

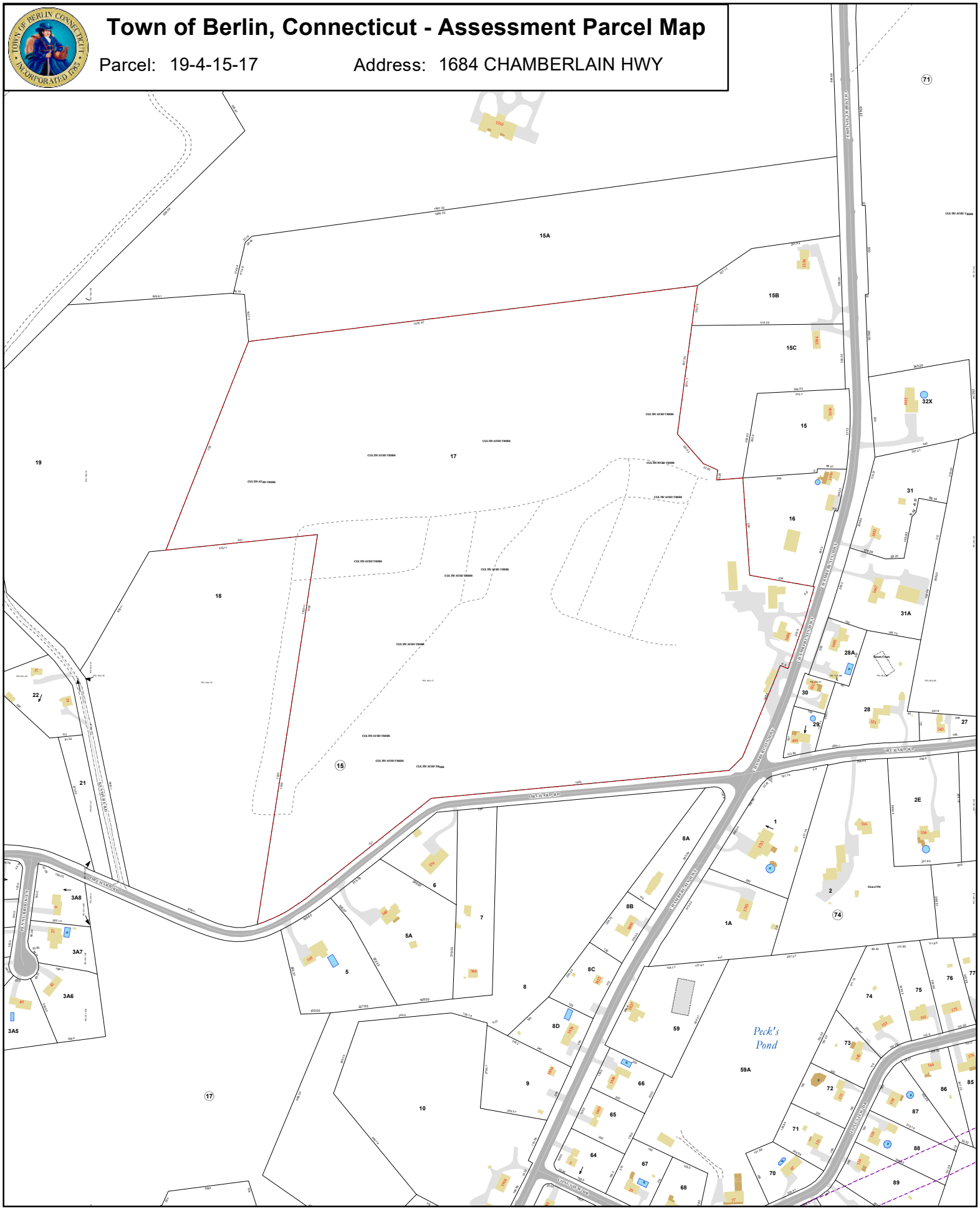
Sales History

Owner of Record	Book/ Page	Sale Date	Sale Price
LAVIANA RONALD L & ARLENE G	0456/0137	2001-09-19	0
LAVIANA,LAWRENCE,,	0088/0223	1944-04-23	0

Report Created On 8/16/2023

Town of Berlin, Connecticut - Assessment Parcel Map

Parcel: 19-4-15-17 Address: 1684 CHAMBERLAIN HWY



N W E S

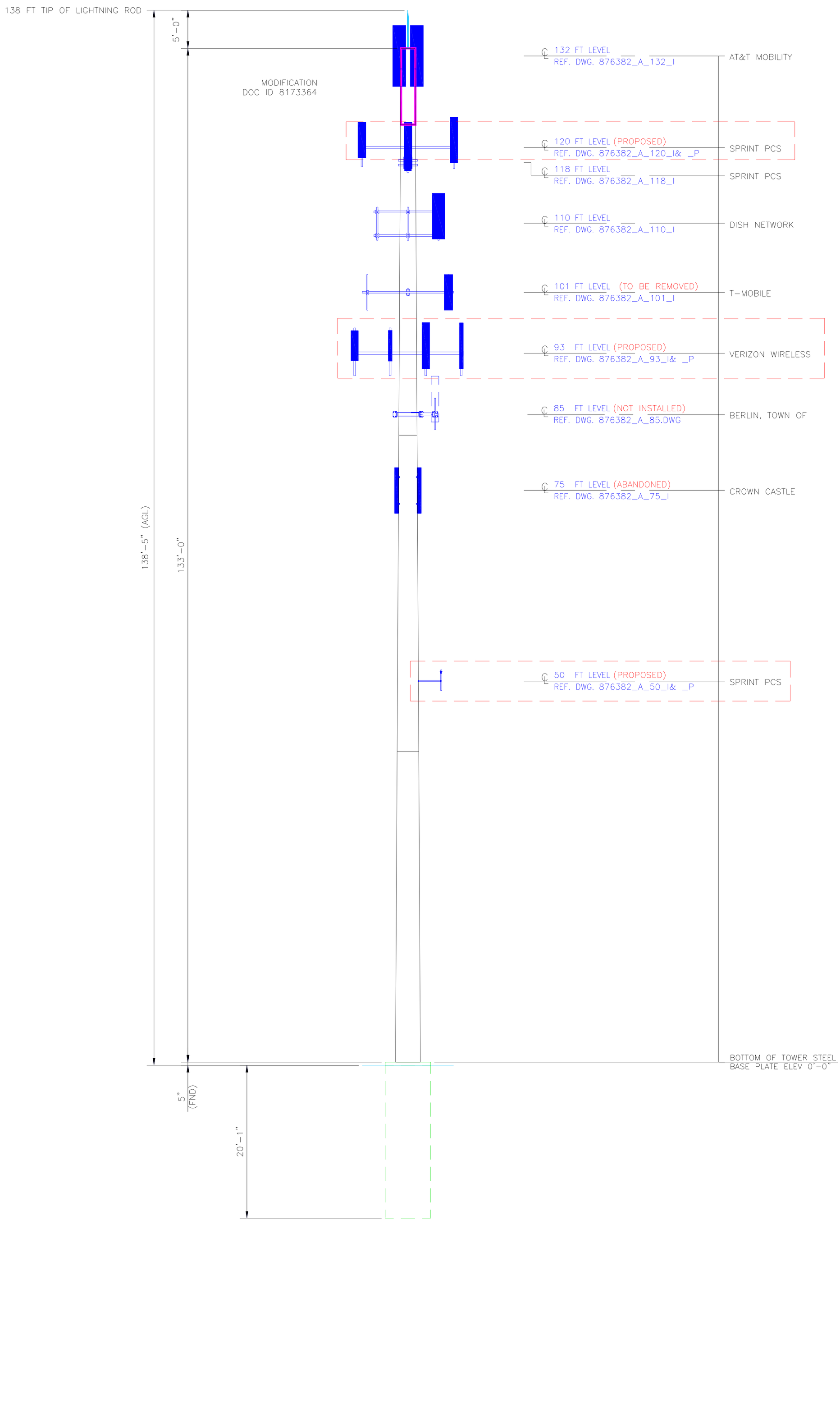
NEGEO
New England GeoSystems
www.negeosystems.com
420 East Main Street - Bldg 3 Suite 18
Branford, CT 06405 • (203) 404 - 7129

Approximate Scale: 1 inch = 404 feet

0 200 400 600 800 Feet

Map Produced: November 2022

Disclaimer: This map is for informational purposes only All information is subject to verification by any user. The Town of Berlin and its mapping contractors assume no legal responsibility for the information contained herein.


138 FT TIP OF LIGHTNING ROD
5'-0"
MODIFICATION
DOC ID 8173364
132 FT LEVEL
REF. DWG. 876382_A_132_I
AT&T MOBILITY
120 FT LEVEL (PROPOSED)
REF. DWG. 876382_A_120_I& _P
SPRINT PCS
118 FT LEVEL
REF. DWG. 876382_A_118_I
SPRINT PCS
110 FT LEVEL
REF. DWG. 876382_A_110_I
DISH NETWORK
101 FT LEVEL (TO BE REMOVED)
REF. DWG. 876382_A_101_I
T-MOBILE
93 FT LEVEL (PROPOSED)
REF. DWG. 876382_A_93_I& _P
VERIZON WIRELESS
85 FT LEVEL (NOT INSTALLED)
REF. DWG. 876382_A_85.DWG
BERLIN, TOWN OF
75 FT LEVEL (ABANDONED)
REF. DWG. 876382_A_75_I
CROWN CASTLE
50 FT LEVEL (PROPOSED)
REF. DWG. 876382_A_50_I& _P
SPRINT PCS
138'-5" (AGL)
133'-0"
BOTTOM OF TOWER STEEL
BASE PLATE ELEV 0'-0"
5"
(FND)
20'-1"

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	-20ºC to +60ºC | -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.

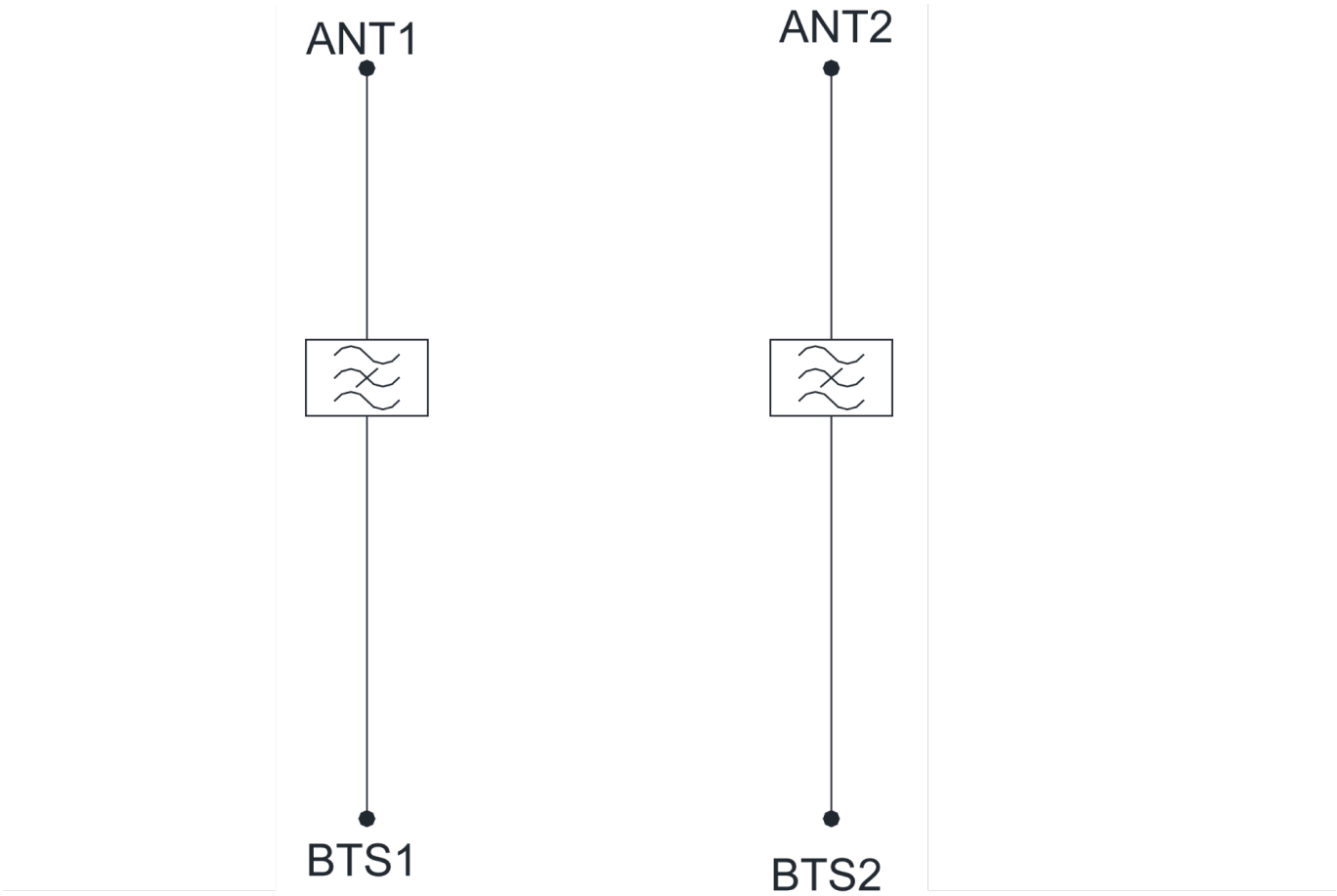
Contact Us: +1 303 768 8080 | +61 (0) 7 3907 1200 | www.kaelus.com

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)

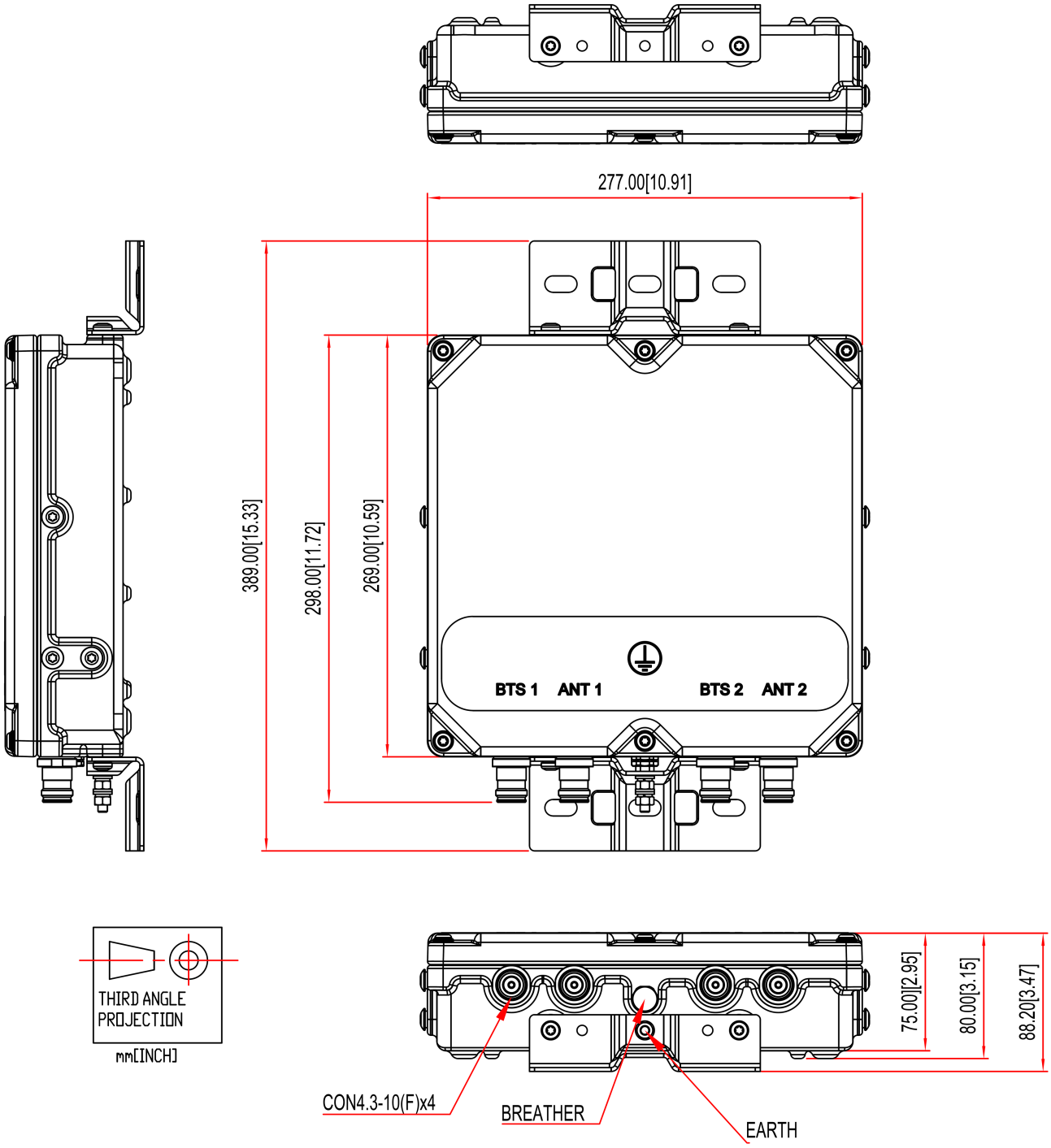
Contact Us: +1 303 768 8080 | +61 (0) 7 3907 1200 | www.kaelus.com

ELECTRICAL BLOCK DIAGRAM



Contact Us: +1 303 768 8080 | +61 (0) 7 3907 1200 | www.kaelus.com

MECHANICAL BLOCK DIAGRAM



Contact Us: +1 303 768 8080 | +61 (0) 7 3907 1200 | www.kaelus.com

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

Antenna Mount Analysis Report and PMI Requirements

Mount ReAnalysis

SMART Tool Project #: 10206409
Colliers Engineering & Design CT, PC Project #: 23777056

July 10, 2023

Site Information	*Site ID:*	*5000383751-VZW / BERLIN 3 CT*
	Site Name:	*BERLIN 3 CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*1684 Chamberlain Hwy* *Berlin, Connecticut 06037* *Hartford County*
	Latitude:	*41.589917°*
	Longitude:	*-72.805333°*
Structure Information	*Tower Type:*	*138-Ft Monopole*
	Mount Type:	*13.67-Ft Platform*

FUZE ID # 17123862

Analysis Results

Platform: **64.2% Pass***

***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: Jared Adkins

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: 674828, dated March 25, 2022*
Mount Mapping Report	*Onsight Services, Site ID: 468011, dated April 10, 2022*
Previous Mount Analysis	*Maser Consulting Connecticut, Project #: 22777019, Dated April 27, 2022*
Final Loading Configuration	*Filter Add Scope Provided by Verizon Wireless*

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}:	120 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:	0.987
Seismic Parameters:	S_S:	0.201 g
	S_1:	0.055 g
Maintenance Parameters:	Wind Speed (3-sec. Gust):	30 mph
	Maintenance Live Load, Lv:	250 lbs.
	Maintenance Live Load, Lm:	500 lbs.
Analysis Software:	RISA-3D (V17)	

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
94.00	95.00	3	Samsung	MT6407-77A	Retained
		3	Commscope	NHH-65B-R2B	
		3	Commscope	NHHSS-65B-R2BT4	
		3	Samsung	RF4439d-25A	
		3	Samsung	RF4440d-13A	
		3	Samsung	CBRS RRH - RT4401-48A	
		2	Raycap	RVZDC-6627-PF-48	
		3	Antel	BXA-70063-4CF	
		4	KAelus	BSF0020F3V1-1	Added

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 and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Colliers Engineering & Design to verify deviation will not adversely impact the analysis.

2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

   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 is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

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

8. It is assumed that the mount modifications listed under Sources of Information have been installed per the design specifications.

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

Analysis Results:

Component	Utilization %	Pass/Fail
Face Horizontal	*64.2 %*	*Pass*
Crossmember	*18.8 %*	*Pass*
Grating Support	*10.5 %*	*Pass*
Standoff Horizontal Larger	*9.4 %*	*Pass*
Standoff Horizontal Smaller	*18.2 %*	*Pass*
Mount Pipe	*29.9 %*	*Pass*
Support Rail	*27.8 %*	*Pass*
V-Bracing Kit	*10.5 %*	*Pass*
Mount Connection	*18.7 %*	*Pass*

Structure Rating – *(Controlling Utilization of all Components)*	**64.2%**

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	34.0	34.0	47.5	47.5
0.5	42.5	42.5	61.4	61.4
1	50.7	50.7	75.0	75.0

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 is **SUFFICIENT** for the final loading configuration shown in attachment 2 and do not require modifications. Additional requirements are noted below.

Contractor to verify that all modifications and equipment are installed per previous mount modification analysis done by Maser Consulting Connecticut, Project #: 22777019, dated April 27, 2022.

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

---

MDG #: 5000383751 SMART Project #: 10206409 Fuze Project ID: 17123862

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 to verify that all modifications and equipment are installed per previous mount modification analysis done by Maser Consulting Connecticut, Project #: 22777019, dated April 27, 2022.

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:	

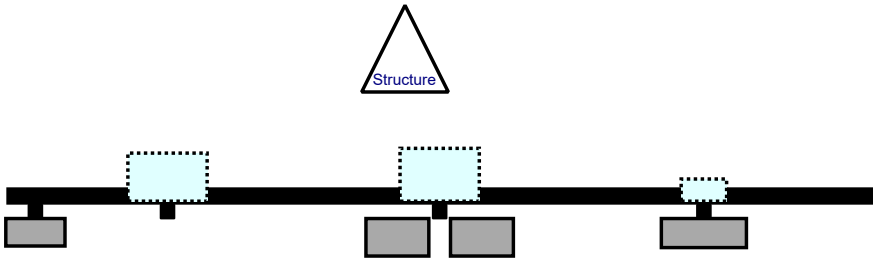
Structure: **3837 1-VZW - BERLIN 3 CT**

Sector: **A** 7/6/2023

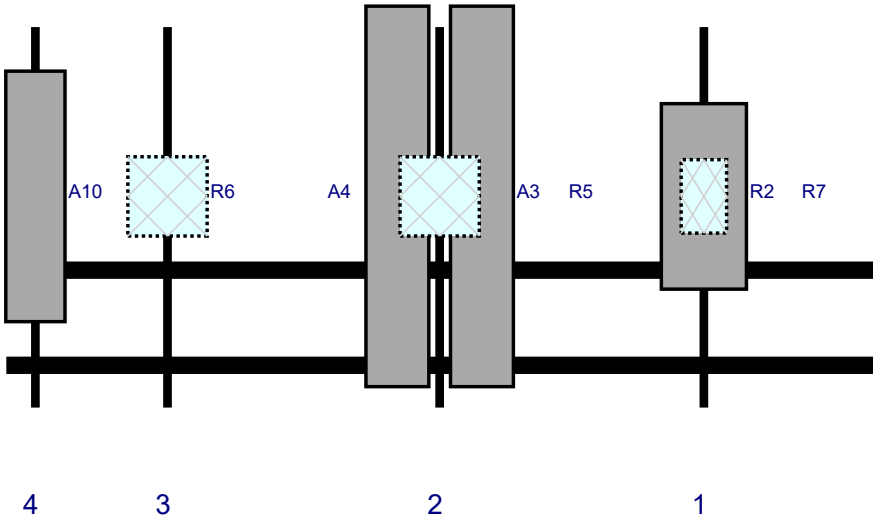
Structure Type: Monopole 10206409

Mount Elev: 94.00 Page: 1

Plan View

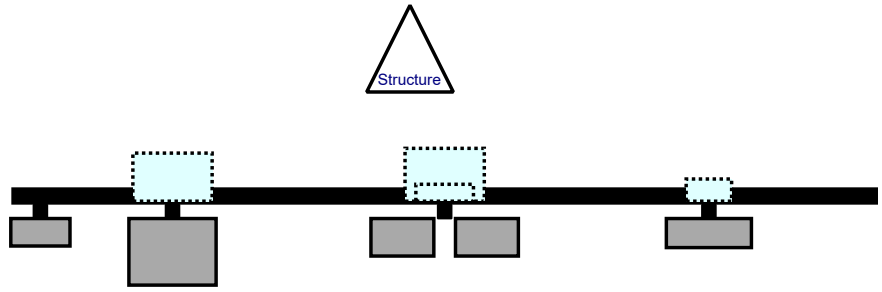


Front View - Looking at Structure

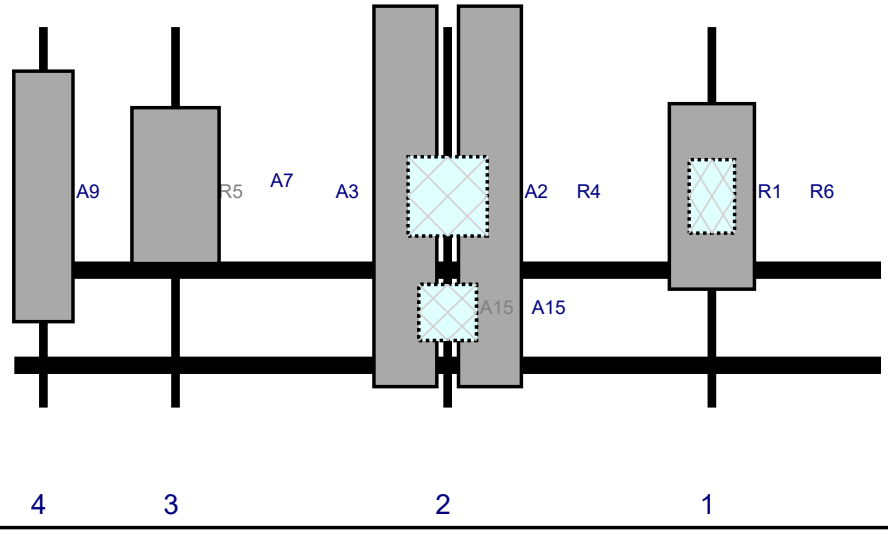


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R2	MT6407-77A	35.1	16.1	132	1	a	Front	32.04	0	Retained	
R7	CBRS RRH - RT4401-48A	13.9	8.6	132	1	a	Behind	32.04	0	Retained	
A3	NHH-65B-R2B	72	11.9	82	2	a	Front	32.04	8	Retained	
A4	NHHSS-65B-R2BT4	72	11.9	82	2	a	Front	32.04	-8	Retained	
R5	RF4439d-25A	15	15	82	2	a	Behind	32.04	0	Retained	
R6	RF4440d-13A	15	15	30.5	3	a	Behind	32.04	0	Retained	
A10	BXA-70063-4CF	47.4	11.2	5.5	4	a	Front	32.04	0	Retained	04/10/2022
OVP1	RVZDC-6627-PF-48	29.5	16.5		Member					Retained	

Plan View

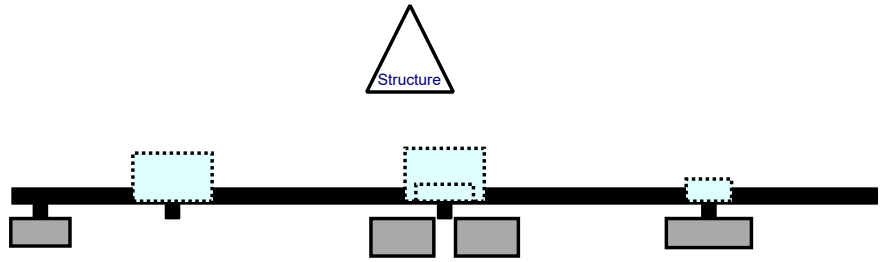


Front View - Looking at Structure

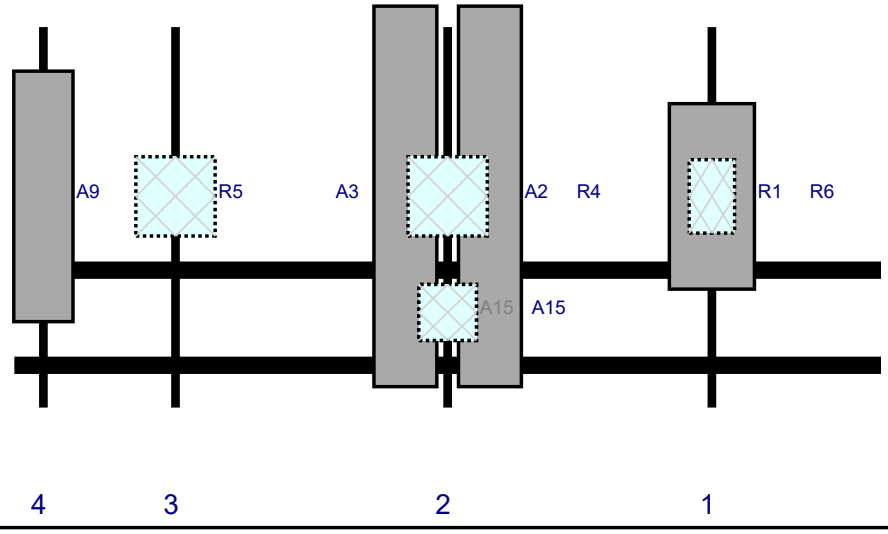


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R1	MT6407-77A	35.1	16.1	132	1	a	Front	32.04	0	Retained	
R6	CBRS RRH - RT4401-48A	13.9	8.6	132	1	a	Behind	32.04	0	Retained	
A2	NHH-65B-R2B	72	11.9	82	2	a	Front	32.04	8	Retained	
A3	NHHSS-65B-R2BT4	72	11.9	82	2	a	Front	32.04	-8	Retained	
R4	RF4439d-25A	15	15	82	2	a	Behind	32.04	0	Retained	
A15	BSF0020F3V1-1	10.6	10.9	82	2	a	Behind	54	0	Added	
A15	BSF0020F3V1-1	10.6	10.9	82	2	b	Behind	54	0	Added	
R5	RF4440d-13A	15	15	30.5	3	a	Behind	32.04	0	Retained	
A7	RVZDC-6627-PF-48	29.5	16.5	30.5	3	a	Front	30	0	Retained	
A9	BXA-70063-4CF	47.4	11.2	5.5	4	a	Front	32.04	0	Retained	04/10/2022

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
R1	MT6407-77A	35.1	16.1	132	1	a	Front	32.04	0	Retained	
R6	CBRS RRH - RT4401-48A	13.9	8.6	132	1	a	Behind	32.04	0	Retained	
A2	NHH-65B-R2B	72	11.9	82	2	a	Front	32.04	8	Retained	
A3	NHHSS-65B-R2BT4	72	11.9	82	2	a	Front	32.04	-8	Retained	
R4	RF4439d-25A	15	15	82	2	a	Behind	32.04	0	Retained	
A15	BSF0020F3V1-1	10.6	10.9	82	2	a	Behind	54	0	Added	
A15	BSF0020F3V1-1	10.6	10.9	82	2	b	Behind	54	0	Added	
R5	RF4440d-13A	15	15	30.5	3	a	Behind	32.04	0	Retained	
A9	BXA-70063-4CF	47.4	11.2	5.5	4	a	Front	32.04	0	Retained	04/10/2022

V4.1 Updated on 12-17-2021

Antenna Mount Mapping Form (PATENT PENDING)

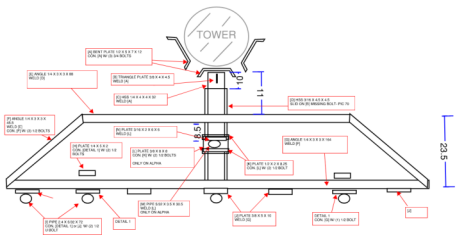
FCC #

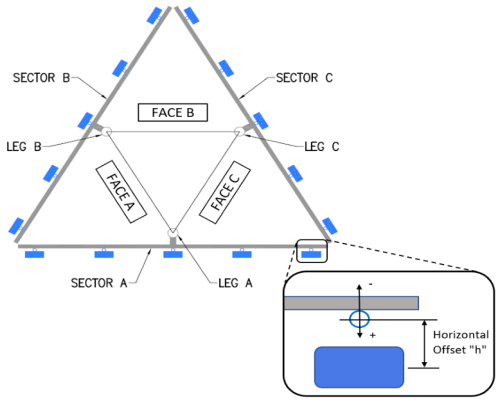
Tower Owner:	CROWN	**Mapping Date:**	4/10/2022
Site Name:	BERLIN 3 CT	**Tower Type:**	MONOPOLE
Site Number or ID:	468011	**Tower Height (Ft.):**	138
Mapping Contractor:	ONSIGHT SERVICES	**Mount Elevation (Ft.):**	93

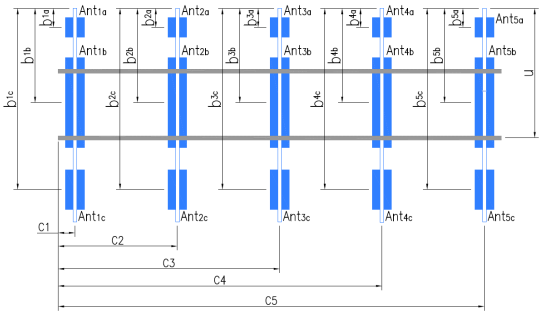
Site Number: 467287

All measurements / offsets given in inches

TOP VIEW







Antenna Layout (Looking Out From Tower)

Mount Pipe Configuration and Geometries [Unit = Inches]

Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	2.4 X 5/32 X 72	46.00	32.00	C1	2.4 X 5/32 X 72	46.00	32.00
A2	2.4 X 5/32 X 72	46.00	82.00	C2	2.4 X 5/32 X 72	46.00	82.00
A3	2.4 X 5/32 X 72	46.00	133.50	C3	2.4 X 5/32 X 72	46.00	133.50
A4	2.4 X 5/32 X 72	46.00	158.50	C4	2.4 X 5/32 X 72	46.00	158.50
A5				C5			
A6				C6			
B1	2.4 X 5/32 X 72	46.00	32.00	D1			
B2	2.4 X 5/32 X 72	46.00	82.00	D2			
B3	2.4 X 5/32 X 72	46.00	133.50	D3			
B4	2.4 X 5/32 X 72	46.00	158.50	D4			
B5				D5			
B6				D6			

Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :	4.8
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :	

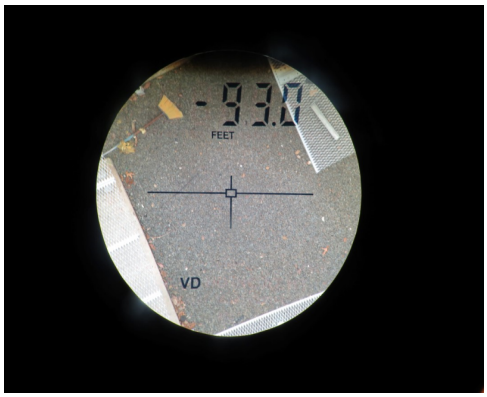
Please enter additional infomation or comments below.

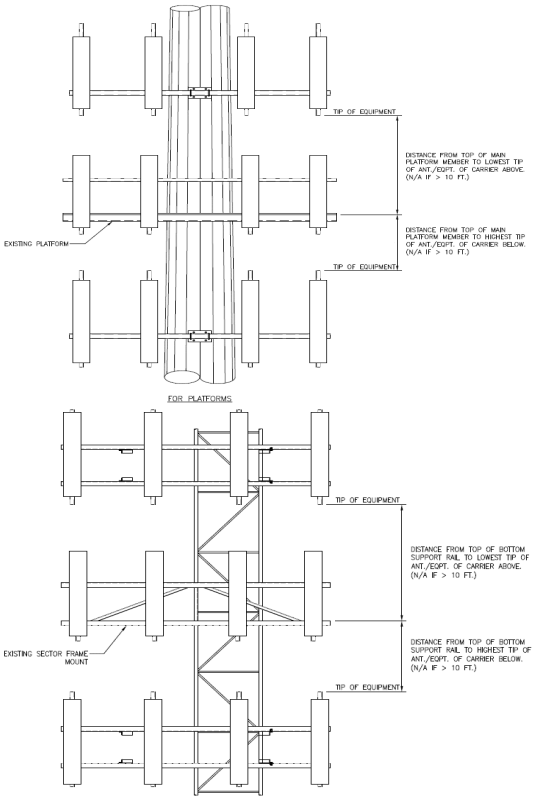
Tower Face Width at Mount Elev. (ft.):		Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):	27.2

	Enter antenna model. If not labeled, enter "Unknown".					Mounting Locations [Units are inches and degrees]			Photos of antennas
Ants. Items	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Vertical Distances"b_{1a}, b_{2a}, b_{3a}, b_{1b}...." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photo Numbers
Sector A										
Ant_{1a}	ANTEL BXA-171069-12CF-EDIN-2					93.25	41.00	10.50	0.00	45
Ant_{1b}	ALCATEL 9422 RRH2x40-AWS					95.5	15.00	-6.50	0.00	45
Ant_{1c}										
Ant_{2a}	ANDREW LNX-6514DS-A1M					93.8	32.00	8.00	0.00	46
Ant_{2b}	RFS	6.50	0.75	4.75		94.75	25.50	-3.50	0.00	46
Ant_{2c}										
Ant_{3a}	AMPHENOL BXA-170163-8BF-EDIN					94	30.00	7.50	0.00	47
Ant_{3b}	RFS	6.50	0.75	4.75		94	29.50	-3.50	0.00	47
Ant_{3c}										
Ant_{4a}	ANTEL BXA-70063-4CF-EDIN					94.2	32.50	9.00	0.00	47
Ant_{4b}										
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff	RAYCAP RRFDC-3315-PF-48					96	-6.00	8.50	300.00	228
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector	
Sector A:	0.00	Deg	Leg A:		Deg
Sector B:	120.00	Deg	Leg B:		Deg
Sector C:	240.00	Deg	Leg C:		Deg
Sector D:		Deg	Leg D:		Deg

Climbing Facility Information		
Location:	100.00 Deg	
Climbing Facility	Corrosion Type:	N/A
	Access:	Climbing path was unobstructed.
	Condition:	Missing safety cable.





Sector B										
Ant_{1a}	ANTEL BXA-171069-12CF-EDIN-2					93.25	41.00	10.50	120.00	49
Ant_{1b}	ALCATEL 9422 RRH2x40-AWS					95.5	15.00	-6.50	120.00	49
Ant_{1c}										
Ant_{2a}	ANDREW LNX-6514DS-A1M					93.8	32.00	8.00	120.00	50
Ant_{2b}	RFS	6.50	0.75	4.75		94.75	25.50	-3.50	120.00	50
Ant_{2c}										
Ant_{3a}	AMPHENOL BXA-170163-8BF-EDIN					94	30.00	7.50	120.00	51
Ant_{3b}	RFS	6.50	0.75	4.75		94	29.50	-3.50	120.00	51
Ant_{3c}										
Ant_{4a}	ANTEL BXA-70063-4CF-EDIN					94.2	32.50	9.00	120.00	51
Ant_{4b}										
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										
Sector C										
Ant_{1a}	ANTEL BXA-171069-12CF-EDIN-2					93.25	41.00	10.50	240.00	53
Ant_{1b}	ALCATEL 9422 RRH2x40-AWS					95.5	15.00	-6.50	240.00	53
Ant_{1c}										
Ant_{2a}	ANDREW LNX-6514DS-A1M					93.8	32.00	8.00	240.00	54
Ant_{2b}	RFS	6.50	0.75	4.75		94.75	25.50	-3.50	240.00	54
Ant_{2c}										
Ant_{3a}	AMPHENOL BXA-170163-8BF-EDIN					94	30.00	7.50	240.00	55
Ant_{3b}	RFS	6.50	0.75	4.75		94	29.50	-3.50	240.00	55
Ant_{3c}										
Ant_{4a}	ANTEL BXA-70063-4CF-EDIN					94.2	32.50	9.00	240.00	55
Ant_{4b}										
Ant_{4c}										
Ant_{5a}										
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.

SMART Tool© Vendor

Antenna Mount Mapping Form (PATENT PENDING)

FCC #

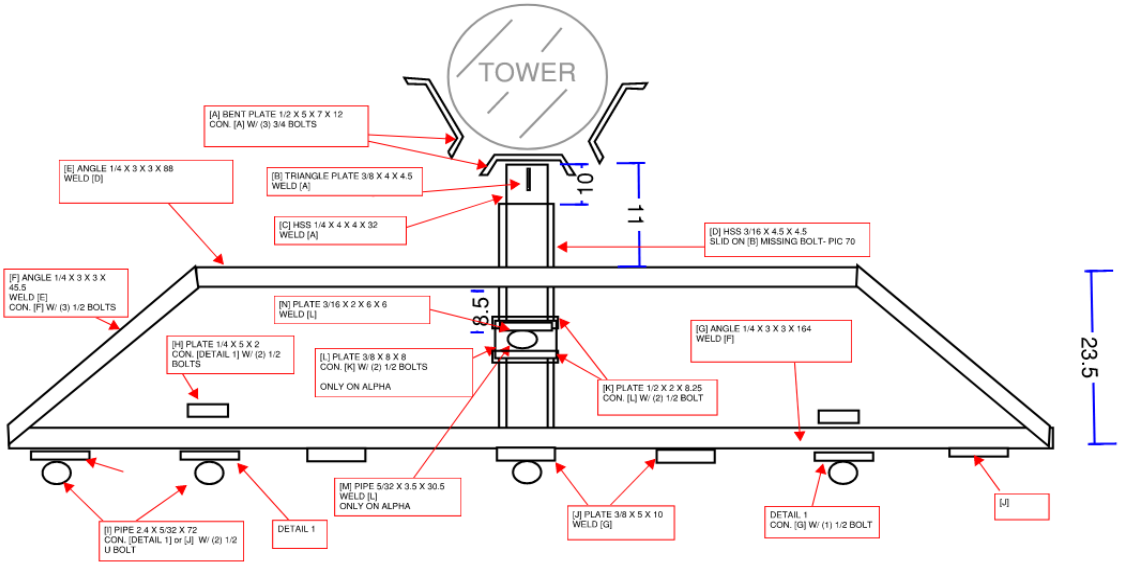
Tower Owner:	CROWN	**Mapping Date:**	4/10/2022
Site Name:	BERLIN 3 CT	**Tower Type:**	MONOPOLE
Site Number or ID:	468011	**Tower Height (Ft.):**	138
Mapping Contractor:	ONSIGHT SERVICES	**Mount Elevation (Ft.):**	93

Please Insert Sketches of the Antenna Mount

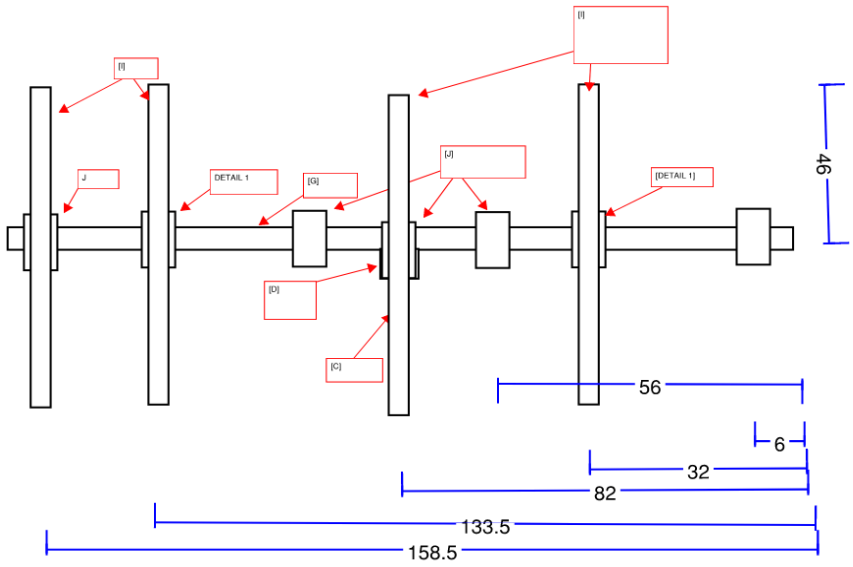
All measurements / offsets given in inches

Site Number: 467287

TOP VIEW

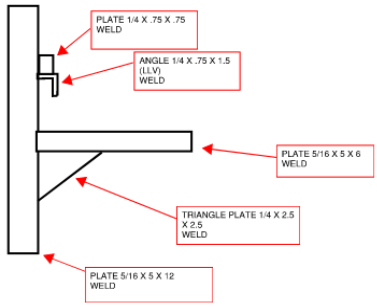


FRONT VIEW



Please Insert Sketches of the Antenna Mount, cont'd

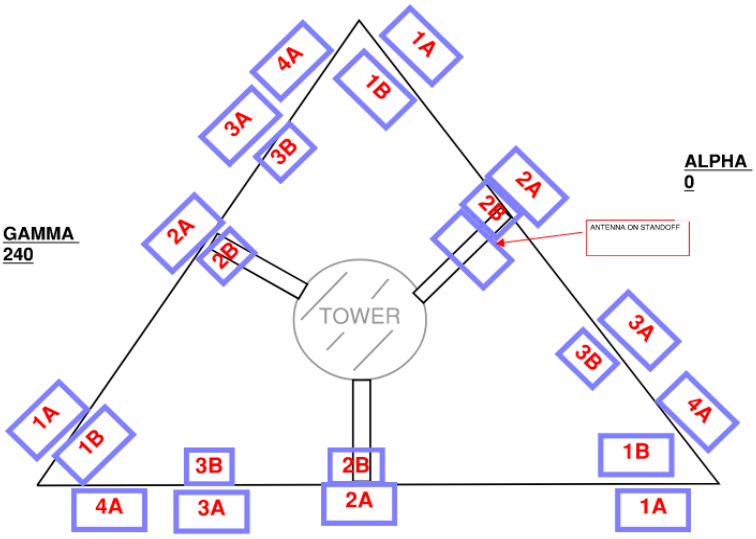
DETAIL 1

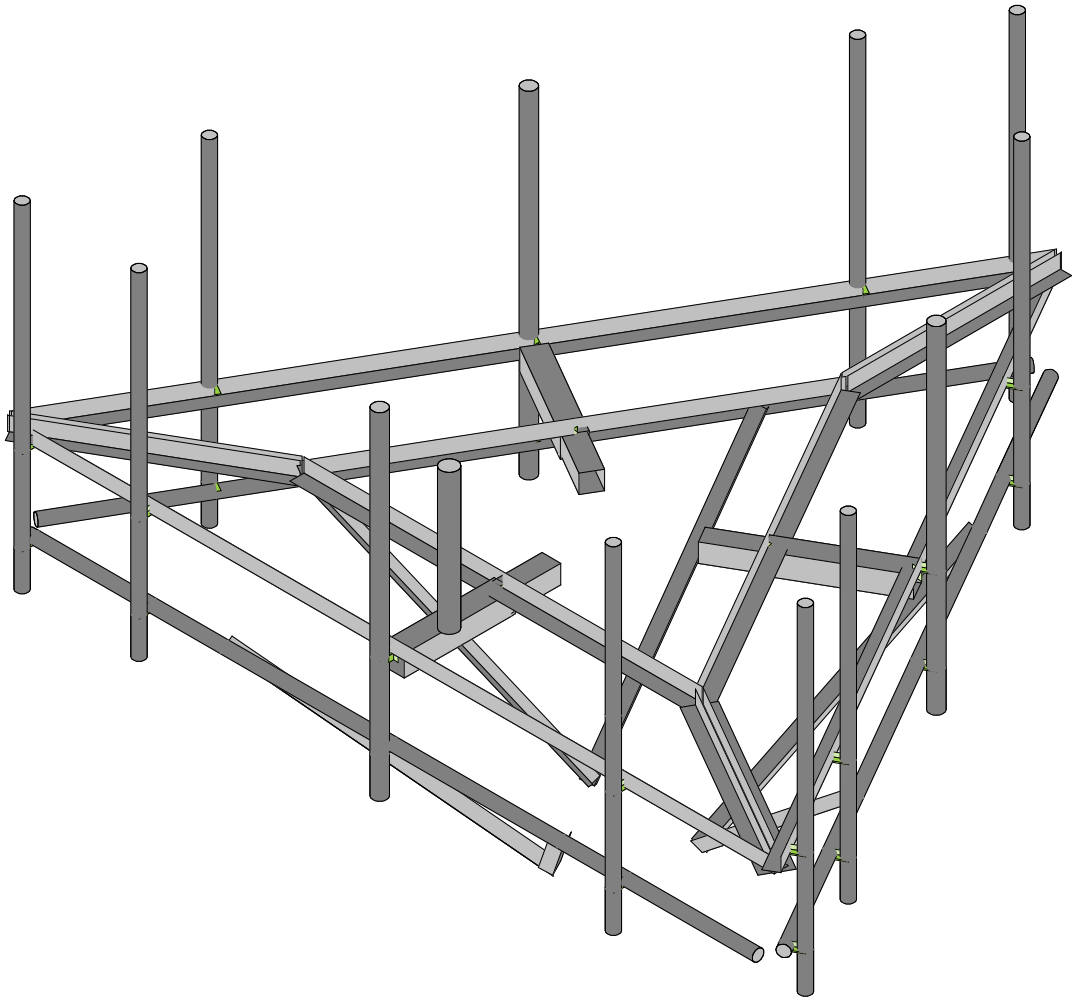


AZIMUTH

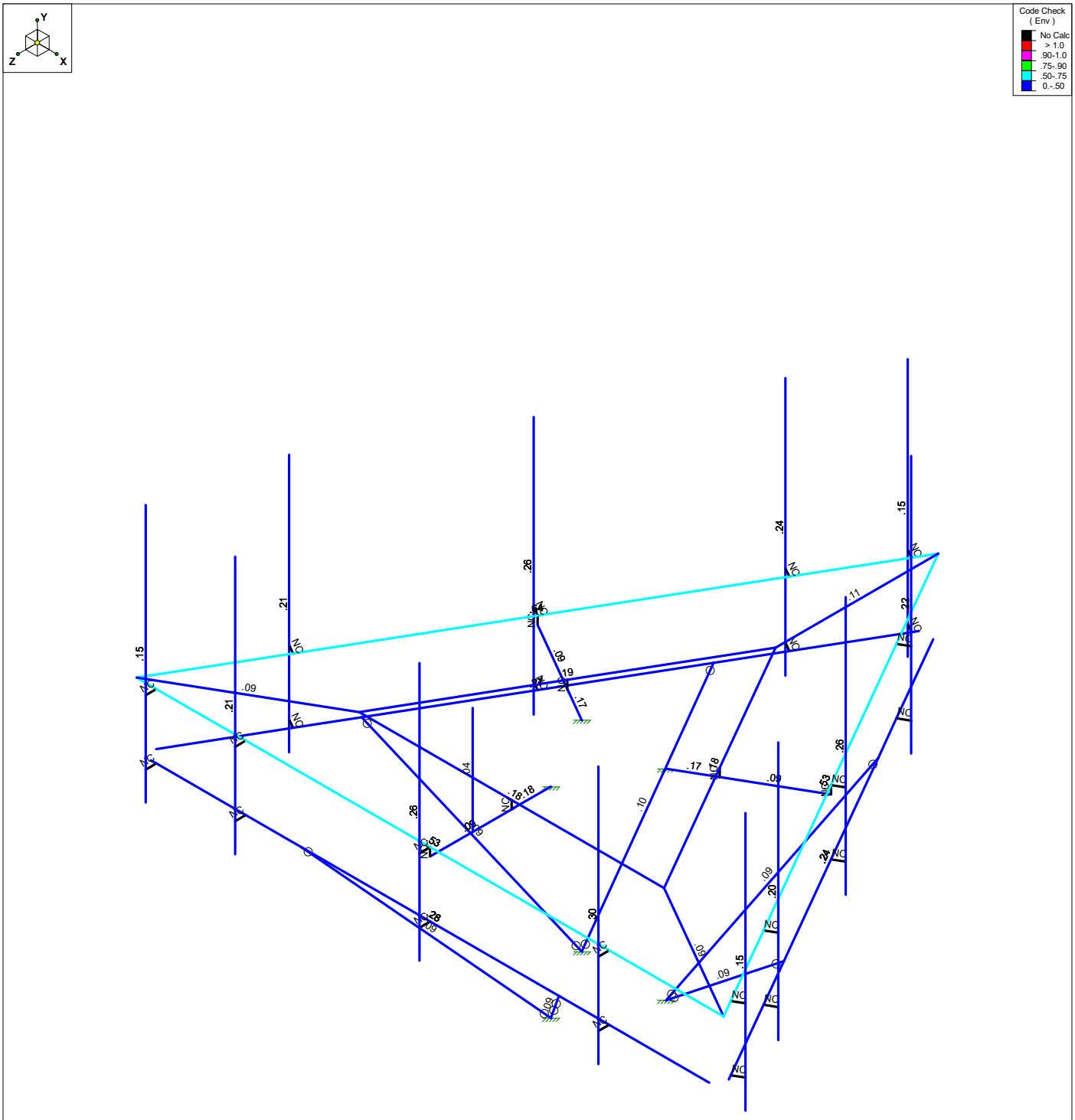
(12) 1-5/8" COAX
(1) 1.55" OD HYBRID

MCL: 93 FT
TOT: 138 FT



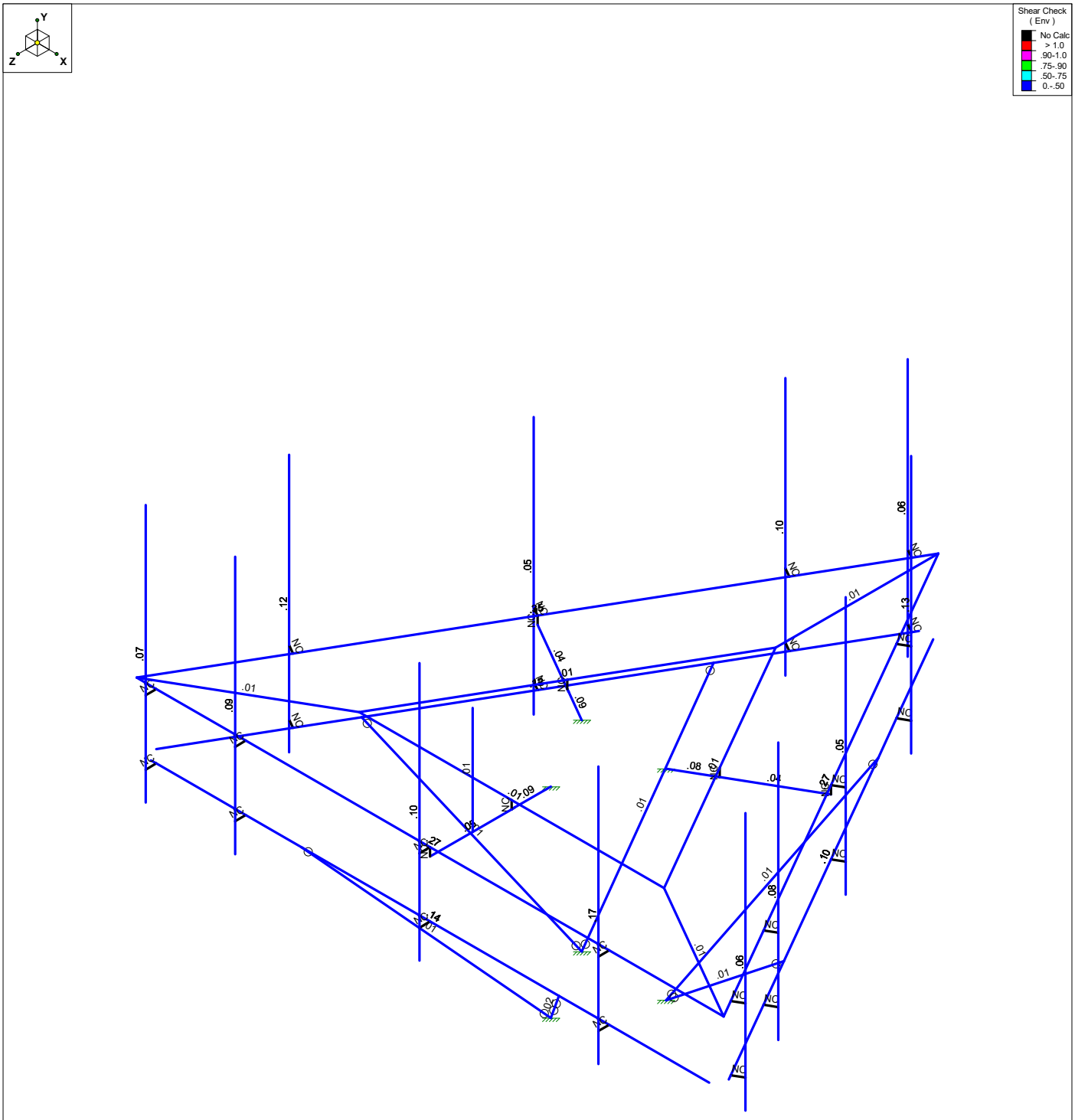


Colliers Engineering & De...	5000383751-VZW_MT_LO_H	SK - 1
		July 6, 2023 at 10:19 PM
Project No. 10206409		5000383751-VZW_MT_LO_H.r3d



Member Code Checks Displayed (Enveloped)
Results for LC 1, 1.2D+1.0Wo (0 Deg)

Colliers Engineering & De...	5000383751-VZW_MT_LO_H	SK - 2
		July 6, 2023 at 10:19 PM
Project No. 10206409		5000383751-VZW_MT_LO_H.r3d



Member Shear Checks Displayed (Enveloped)
Results for LC 1, 1.2D+1.0Wo (0 Deg)

Colliers Engineering & De...	5000383751-VZW_MT_LO_H	SK - 3
		July 6, 2023 at 10:19 PM
Project No. 10206409		5000383751-VZW_MT_LO_H.r3d

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
1	Antenna D	None					111			
2	Antenna Di	None					111			
3	Antenna Wo (0 Deg)	None					111			
4	Antenna Wo (30 Deg)	None					111			
5	Antenna Wo (60 Deg)	None					111			
6	Antenna Wo (90 Deg)	None					111			
7	Antenna Wo (120 Deg)	None					111			
8	Antenna Wo (150 Deg)	None					111			
9	Antenna Wo (180 Deg)	None					111			
10	Antenna Wo (210 Deg)	None					111			
11	Antenna Wo (240 Deg)	None					111			
12	Antenna Wo (270 Deg)	None					111			
13	Antenna Wo (300 Deg)	None					111			
14	Antenna Wo (330 Deg)	None					111			
15	Antenna Wi (0 Deg)	None					111			
16	Antenna Wi (30 Deg)	None					111			
17	Antenna Wi (60 Deg)	None					111			
18	Antenna Wi (90 Deg)	None					111			
19	Antenna Wi (120 Deg)	None					111			
20	Antenna Wi (150 Deg)	None					111			
21	Antenna Wi (180 Deg)	None					111			
22	Antenna Wi (210 Deg)	None					111			
23	Antenna Wi (240 Deg)	None					111			
24	Antenna Wi (270 Deg)	None					111			
25	Antenna Wi (300 Deg)	None					111			
26	Antenna Wi (330 Deg)	None					111			
27	Antenna Wm (0 Deg)	None					111			
28	Antenna Wm (30 Deg)	None					111			
29	Antenna Wm (60 Deg)	None					111			
30	Antenna Wm (90 Deg)	None					111			
31	Antenna Wm (120 De...	None					111			
32	Antenna Wm (150 De...	None					111			
33	Antenna Wm (180 De...	None					111			
34	Antenna Wm (210 De...	None					111			
35	Antenna Wm (240 De...	None					111			
36	Antenna Wm (270 De...	None					111			
37	Antenna Wm (300 De...	None					111			
38	Antenna Wm (330 De...	None					111			
39	Structure D	None		-1					3	
40	Structure Di	None						37	3	
41	Structure Wo (0 Deg)	None						74		
42	Structure Wo (30 Deg)	None						74		
43	Structure Wo (60 Deg)	None						74		
44	Structure Wo (90 Deg)	None						74		
45	Structure Wo (120 D...	None						74		
46	Structure Wo (150 D...	None						74		
47	Structure Wo (180 D...	None						74		
48	Structure Wo (210 D...	None						74		
49	Structure Wo (240 D...	None						74		
50	Structure Wo (270 D...	None						74		
51	Structure Wo (300 D...	None						74		
52	Structure Wo (330 D...	None						74		
53	Structure Wi (0 Deg)	None						74		
54	Structure Wi (30 Deg)	None						74		
55	Structure Wi (60 Deg)	None						74		
56	Structure Wi (90 Deg)	None						74		
57	Structure Wi (120 De...	None						74		
58	Structure Wi (150 De...	None						74		

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
59	Structure Wi (180 De...	None						74		
60	Structure Wi (210 De...	None						74		
61	Structure Wi (240 De...	None						74		
62	Structure Wi (270 De...	None						74		
63	Structure Wi (300 De...	None						74		
64	Structure Wi (330 De...	None						74		
65	Structure Wm (0 Deg)	None						74		
66	Structure Wm (30 De...	None						74		
67	Structure Wm (60 De...	None						74		
68	Structure Wm (90 De...	None						74		
69	Structure Wm (120 D...	None						74		
70	Structure Wm (150 D...	None						74		
71	Structure Wm (180 D...	None						74		
72	Structure Wm (210 D...	None						74		
73	Structure Wm (240 D...	None						74		
74	Structure Wm (270 D...	None						74		
75	Structure Wm (300 D...	None						74		
76	Structure Wm (330 D...	None						74		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	Antenna Ev	None					111			
82	Antenna Eh (0 Deg)	None					74			
83	Antenna Eh (90 Deg)	None					74			
84	Structure Ev	ELY		-.043					3	
85	Structure Eh (0 Deg)	ELZ			-.107				3	
86	Structure Eh (90 Deg)	ELX	.107						3	
87	BLC 39 Transient Are...	None						27		
88	BLC 40 Transient Are...	None						27		
89	BLC 84 Transient Are...	None						27		
90	BLC 85 Transient Are...	None						27		
91	BLC 86 Transient Are...	None						27		

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...
1	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	3	1	41	1												
2	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	4	1	42	1												
3	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	5	1	43	1												
4	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	6	1	44	1												
5	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	7	1	45	1												
6	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	8	1	46	1												
7	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	9	1	47	1												
8	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	10	1	48	1												
9	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	11	1	49	1												
10	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	12	1	50	1												
11	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	13	1	51	1												
12	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	14	1	52	1												
13	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1								
14	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1								
15	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1								
16	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1								
17	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1								
18	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1								
19	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1								
20	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1								
21	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1								

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..
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				
75	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.866	83	-.5	ELZ	.866	ELX	-.5				

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	0	0	1.132727	0	
2	N5	0	0.1875	-7.890453	0	
3	N7A	-0.	0	-0.	0	
4	N10A	0	0.1875	3.945227	0	
5	N11	0	0.1875	2.049393	0	
6	N14	0	0	3.945227	0	
7	N15	0	0	2.049393	0	
8	N39	0	0.1875	-4.098787	0	
9	N39A	-6.833333	0.1875	3.945227	0	
10	N40A	-3.549653	0.1875	2.049393	0	
11	N41B	6.833333	0.1875	3.945227	0	
12	N42A	3.549653	0.1875	2.049393	0	
13	N39B	0	0	1.96606	0	
14	N2	0.98097	0	-0.566363	0	
15	N32	3.416667	0.1875	-1.972613	0	
16	N33	1.774827	0.1875	-1.024697	0	
17	N34	3.416667	0	-1.972613	0	
18	N35	1.774827	0	-1.024697	0	
19	N36	1.702658	0	-0.98303	0	
20	N3	-0.98097	0	-0.566363	0	
21	N39C	-3.416667	0.1875	-1.972613	0	
22	N40B	-1.774827	0.1875	-1.024697	0	
23	N41A	-3.416667	0	-1.972613	0	
24	N42B	-1.774827	0	-1.024697	0	
25	N43A	-1.702658	0	-0.98303	0	
26	N27	4.166666	0.1875	3.945227	0	
27	MCL	4.166666	0.1875	4.195227	0	
28	N30	-0.	0.1875	4.195227	0	
29	N30A	-4.291667	0.1875	3.945227	0	
30	N31	-4.291667	0.1875	4.195227	0	
31	N32A	-6.375	0.1875	3.945227	0	
32	N33A	-6.375	0.1875	4.195227	0	
33	N33B	4.166666	4.020833	4.195227	0	
34	N34A	-0.	4.020833	4.195227	0	
35	N35A	-4.291667	4.020833	4.195227	0	
36	N36A	-6.375	4.020833	4.195227	0	
37	N37	4.166666	-1.979167	4.195227	0	
38	N38	-0.	-1.979167	4.195227	0	
39	N39D	-4.291667	-1.979167	4.195227	0	
40	N40	-6.375	-1.979167	4.195227	0	
41	N42	1.333333	0.1875	-5.581052	0	
42	N43	1.54984	0.1875	-5.706052	0	
43	N44	3.633173	0.1875	-2.097613	0	
44	N45	5.5625	0.1875	1.744079	0	
45	N46	5.779006	0.1875	1.619079	0	
46	N47	6.604167	0.1875	3.548299	0	
47	N48	6.820673	0.1875	3.423299	0	
48	N49	1.54984	4.020833	-5.706052	0	
49	N50	3.633173	4.020833	-2.097613	0	
50	N51	5.779006	4.020833	1.619079	0	
51	N52	6.820673	4.020833	3.423299	0	
52	N53	1.54984	-1.979167	-5.706052	0	
53	N54	3.633173	-1.979167	-2.097613	0	
54	N55	5.779006	-1.979167	1.619079	0	
55	N56	6.820673	-1.979167	3.423299	0	
56	N58	-5.5	0.1875	1.635826	0	
57	N59	-5.716506	0.1875	1.510826	0	
58	N60	-3.633173	0.1875	-2.097614	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
59	N61	-1.270833	0.1875	-5.689306	0	
60	N62	-1.48734	0.1875	-5.814306	0	
61	N63	-0.229167	0.1875	-7.493525	0	
62	N64	-0.445673	0.1875	-7.618525	0	
63	N65	-5.716506	4.020833	1.510826	0	
64	N66	-3.633173	4.020833	-2.097614	0	
65	N67	-1.48734	4.020833	-5.814306	0	
66	N68	-0.445673	4.020833	-7.618525	0	
67	N69	-5.716506	-1.979167	1.510826	0	
68	N70	-3.633173	-1.979167	-2.097614	0	
69	N71	-1.48734	-1.979167	-5.814306	0	
70	N72	-0.445673	-1.979167	-7.618525	0	
71	ACL	4.166666	1.354167	4.195227	0	
72	N72A	0	0	2.955643	0	
73	N73	0	2.5	2.955643	0	
74	N74	0	-1.3125	3.945227	0	
75	N75	-6.5	-1.3125	3.945227	0	
76	N76	6.5	-1.3125	3.945227	0	
77	N77	3.416667	-1.3125	-1.972613	0	
78	N78	-3.416667	-1.3125	-1.972613	0	
79	N79	4.166666	-1.3125	3.945227	0	
80	N80	4.166666	-1.3125	4.195227	0	
81	N81	-0.	-1.3125	4.195227	0	
82	N82	-4.291667	-1.3125	3.945227	0	
83	N83	-4.291667	-1.3125	4.195227	0	
84	N84	-6.375	-1.3125	3.945227	0	
85	N85	-6.375	-1.3125	4.195227	0	
86	N86	1.333333	-1.3125	-5.581052	0	
87	N87	1.54984	-1.3125	-5.706052	0	
88	N88	3.633173	-1.3125	-2.097613	0	
89	N89	5.5625	-1.3125	1.744079	0	
90	N90	5.779006	-1.3125	1.619079	0	
91	N91	6.604167	-1.3125	3.548299	0	
92	N92	6.820673	-1.3125	3.423299	0	
93	N93	-5.5	-1.3125	1.635826	0	
94	N94	-5.716506	-1.3125	1.510826	0	
95	N95	-3.633173	-1.3125	-2.097614	0	
96	N96	-1.270833	-1.3125	-5.689306	0	
97	N97	-1.48734	-1.3125	-5.814306	0	
98	N98	-0.229167	-1.3125	-7.493525	0	
99	N99	-0.445673	-1.3125	-7.618525	0	
100	N100	6.666667	-1.3125	3.656552	0	
101	N101	0.166667	-1.3125	-7.601779	0	
102	N102	-0.166667	-1.3125	-7.601779	0	
103	N103	-6.666667	-1.3125	3.656552	0	
104	N104	3	-1.3125	3.945227	0	
105	N105	-3	-1.3125	3.945227	0	
106	N106	0	-4.666667	1.132727	0	
107	N107	1.916667	-1.3125	-4.57069	0	
108	N108	4.916667	-1.3125	0.625463	0	
109	N109	0.98097	-4.666667	-0.566363	0	
110	N110	-4.916667	-1.3125	0.625463	0	
111	N111	-1.916667	-1.3125	-4.57069	0	
112	N112	-0.98097	-4.666667	-0.566363	0	

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	Mod Mount ...	PIPE_2.5	Column	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
3	OVP Pipe	PIPE_3.0	Column	Pipe	A53 Gr. B	Typical	2.07	2.85	2.85	5.69
4	Mod Support...	PIPE_2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
5	Standoff Hor...	HSS4.5X4.5...	Beam	Tube	A500 Gr. B 46	Typical	2.93	9.02	9.02	14.4
6	Standoff Hor...	HSS4X4X4	Beam	Tube	A500 Gr. B 46	Typical	3.37	7.8	7.8	12.8
7	Face Horizo...	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
8	Crossmember	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
9	Mod V-Braci...	L2.5x2.5x4	Column	Single Angle	A36 Gr.36	Typical	1.19	.692	.692	.026
10	Grating Sup...	LL3x3x4x0	Beam	Double Angl...	A36 Gr.36	Typical	2.88	4.5	2.46	.063

Hot Rolled Steel Properties

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N27	MCL			RIGID	None	None	RIGID	Typical
2	M2	N10A	N30			RIGID	None	None	RIGID	Typical
3	M3	N30A	N31			RIGID	None	None	RIGID	Typical
4	M4	N32A	N33A			RIGID	None	None	RIGID	Typical
5	M5	N41B	N39A			Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
6	M7	N40A	N42A			Crossmember	Beam	Single Angle	A36 Gr.36	Typical
7	M10	N10A	N14			RIGID	None	None	RIGID	Typical
8	M10A	N5	N39		180	Grating Support	Beam	Double Angle (...	A36 Gr.36	Typical
9	M11	N11	N15			RIGID	None	None	RIGID	Typical
10	M12	N14	N39B			Standoff Horiz...	Beam	Tube	A500 Gr. ...	Typical
11	M13	N15	N1			Standoff Horiz...	Beam	Tube	A500 Gr. ...	Typical
12	M22A	N32	N34			RIGID	None	None	RIGID	Typical
13	M23A	N33	N35			RIGID	None	None	RIGID	Typical
14	M24A	N39A	N40A		180	Grating Support	Beam	Double Angle (...	A36 Gr.36	Typical
15	M24B	N34	N36			Standoff Horiz...	Beam	Tube	A500 Gr. ...	Typical
16	M25A	N41B	N42A		180	Grating Support	Beam	Double Angle (...	A36 Gr.36	Typical
17	M25B	N35	N2			Standoff Horiz...	Beam	Tube	A500 Gr. ...	Typical
18	M26	N42A	N39			Crossmember	Beam	Single Angle	A36 Gr.36	Typical
19	M26A	N39C	N41A			RIGID	None	None	RIGID	Typical
20	M27	N5	N41B			Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
21	M27A	N40B	N42B			RIGID	None	None	RIGID	Typical
22	M28	N39	N40A			Crossmember	Beam	Single Angle	A36 Gr.36	Typical
23	M28A	N41A	N43A			Standoff Horiz...	Beam	Tube	A500 Gr. ...	Typical
24	M29	N39A	N5			Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
25	M29A	N42B	N3			Standoff Horiz...	Beam	Tube	A500 Gr. ...	Typical
26	M30A	N42	N43			RIGID	None	None	RIGID	Typical
27	M31	N32	N44			RIGID	None	None	RIGID	Typical
28	M32	N45	N46			RIGID	None	None	RIGID	Typical
29	M33	N47	N48			RIGID	None	None	RIGID	Typical
30	M38	N58	N59			RIGID	None	None	RIGID	Typical
31	M39	N39C	N60			RIGID	None	None	RIGID	Typical
32	M40	N61	N62			RIGID	None	None	RIGID	Typical
33	M41	N63	N64			RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
34	MP1A	N33B	N37			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
35	MP1B	N65	N69			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
36	MP1C	N49	N53			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
37	MP2A	N34A	N38			Mod Mount Pipe	Column	Pipe	A53 Gr. B	Typical
38	MP2B	N66	N70			Mod Mount Pipe	Column	Pipe	A53 Gr. B	Typical
39	MP2C	N50	N54			Mod Mount Pipe	Column	Pipe	A53 Gr. B	Typical
40	MP3A	N35A	N39D			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
41	MP3B	N67	N71			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
42	MP3C	N51	N55			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
43	MP4A	N36A	N40			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
44	MP4B	N68	N72			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
45	MP4C	N52	N56			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
46	OVP1	N73	N72A			OVP Pipe	Column	Pipe	A53 Gr. B	Typical
47	M47	N79	N80			RIGID	None	None	RIGID	Typical
48	M48	N74	N81			RIGID	None	None	RIGID	Typical
49	M49	N82	N83			RIGID	None	None	RIGID	Typical
50	M50	N84	N85			RIGID	None	None	RIGID	Typical
51	M51	N86	N87			RIGID	None	None	RIGID	Typical
52	M52	N77	N88			RIGID	None	None	RIGID	Typical
53	M53	N89	N90			RIGID	None	None	RIGID	Typical
54	M54	N91	N92			RIGID	None	None	RIGID	Typical
55	M55	N93	N94			RIGID	None	None	RIGID	Typical
56	M56	N78	N95			RIGID	None	None	RIGID	Typical
57	M57	N96	N97			RIGID	None	None	RIGID	Typical
58	M58	N98	N99			RIGID	None	None	RIGID	Typical
59	M59	N76	N75			Mod Support ...	Beam	Pipe	A53 Gr. B	Typical
60	M60	N101	N100			Mod Support ...	Beam	Pipe	A53 Gr. B	Typical
61	M61	N103	N102			Mod Support ...	Beam	Pipe	A53 Gr. B	Typical
62	M62	N105	N106		330	Mod V-Bracing...	Column	Single Angle	A36 Gr.36	Typical
63	M63	N104	N106		300	Mod V-Bracing...	Column	Single Angle	A36 Gr.36	Typical
64	M64	N108	N109		330	Mod V-Bracing...	Column	Single Angle	A36 Gr.36	Typical
65	M65	N107	N109		300	Mod V-Bracing...	Column	Single Angle	A36 Gr.36	Typical
66	M66	N111	N112		330	Mod V-Bracing...	Column	Single Angle	A36 Gr.36	Typical
67	M67	N110	N112		300	Mod V-Bracing...	Column	Single Angle	A36 Gr.36	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes	** NA **			None
2	M2						Yes	** NA **			None
3	M3						Yes	** NA **			None
4	M4						Yes	** NA **			None
5	M5						Yes				None
6	M7						Yes				None
7	M10						Yes	** NA **			None
8	M10A						Yes				None
9	M11						Yes	** NA **			None
10	M12						Yes				None
11	M13						Yes				None
12	M22A						Yes	** NA **			None
13	M23A						Yes	** NA **			None
14	M24A						Yes				None
15	M24B						Yes				None
16	M25A						Yes				None
17	M25B						Yes				None
18	M26						Yes				None
19	M26A						Yes	** NA **			None
20	M27						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...
21	M27A						Yes	** NA **			None
22	M28						Yes				None
23	M28A						Yes	Default			None
24	M29						Yes				None
25	M29A						Yes				None
26	M30A						Yes	** NA **			None
27	M31						Yes	** NA **			None
28	M32						Yes	** NA **			None
29	M33						Yes	** NA **			None
30	M38						Yes	** NA **			None
31	M39						Yes	** NA **			None
32	M40						Yes	** NA **			None
33	M41						Yes	** NA **			None
34	MP1A						Yes	** NA **			None
35	MP1B						Yes	** NA **			None
36	MP1C						Yes	** NA **			None
37	MP2A						Yes	** NA **			None
38	MP2B						Yes	** NA **			None
39	MP2C						Yes	** NA **			None
40	MP3A						Yes	** NA **			None
41	MP3B						Yes	** NA **			None
42	MP3C						Yes	** NA **			None
43	MP4A						Yes	** NA **			None
44	MP4B						Yes	** NA **			None
45	MP4C						Yes	** NA **			None
46	OVP1						Yes	** NA **			None
47	M47						Yes	** NA **			None
48	M48						Yes	** NA **			None
49	M49						Yes	** NA **			None
50	M50						Yes	** NA **			None
51	M51						Yes	** NA **			None
52	M52						Yes	** NA **			None
53	M53						Yes	** NA **			None
54	M54						Yes	** NA **			None
55	M55						Yes	** NA **			None
56	M56						Yes	** NA **			None
57	M57						Yes	** NA **			None
58	M58						Yes	** NA **			None
59	M59						Yes				None
60	M60						Yes				None
61	M61						Yes				None
62	M62	BenPIN	BenPIN				Yes	** NA **			None
63	M63	BenPIN	BenPIN				Yes	** NA **			None
64	M64	BenPIN	BenPIN				Yes	** NA **			None
65	M65	BenPIN	BenPIN				Yes	** NA **			None
66	M66	BenPIN	BenPIN				Yes	** NA **			None
67	M67	BenPIN	BenPIN				Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	Y	-17.6	4.5
2	MP2B	My	-.004	4.5
3	MP2B	Mz	.008	4.5
4	MP2C	Y	-17.6	4.5
5	MP2C	My	-.004	4.5
6	MP2C	Mz	-.008	4.5
7	MP1A	Y	-43.55	1.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP1A	My	-.022	1.67
9	MP1A	Mz	0	1.67
10	MP1A	Y	-43.55	3.67
11	MP1A	My	-.022	3.67
12	MP1A	Mz	0	3.67
13	MP1B	Y	-43.55	1.67
14	MP1B	My	.011	1.67
15	MP1B	Mz	-.019	1.67
16	MP1B	Y	-43.55	3.67
17	MP1B	My	.011	3.67
18	MP1B	Mz	-.019	3.67
19	MP1C	Y	-43.55	1.67
20	MP1C	My	.011	1.67
21	MP1C	Mz	.019	1.67
22	MP1C	Y	-43.55	3.67
23	MP1C	My	.011	3.67
24	MP1C	Mz	.019	3.67
25	MP2A	Y	-21.85	1.17
26	MP2A	My	-.011	1.17
27	MP2A	Mz	.015	1.17
28	MP2A	Y	-21.85	4.17
29	MP2A	My	-.011	4.17
30	MP2A	Mz	.015	4.17
31	MP2B	Y	-21.85	1.17
32	MP2B	My	-.007	1.17
33	MP2B	Mz	-.017	1.17
34	MP2B	Y	-21.85	4.17
35	MP2B	My	-.007	4.17
36	MP2B	Mz	-.017	4.17
37	MP2C	Y	-21.85	1.17
38	MP2C	My	.018	1.17
39	MP2C	Mz	.002	1.17
40	MP2C	Y	-21.85	4.17
41	MP2C	My	.018	4.17
42	MP2C	Mz	.002	4.17
43	MP2A	Y	-32.3	1.17
44	MP2A	My	-.016	1.17
45	MP2A	Mz	-.022	1.17
46	MP2A	Y	-32.3	4.17
47	MP2A	My	-.016	4.17
48	MP2A	Mz	-.022	4.17
49	MP2B	Y	-32.3	1.17
50	MP2B	My	.027	1.17
51	MP2B	Mz	-.003	1.17
52	MP2B	Y	-32.3	4.17
53	MP2B	My	.027	4.17
54	MP2B	Mz	-.003	4.17
55	MP2C	Y	-32.3	1.17
56	MP2C	My	-.011	1.17
57	MP2C	Mz	.025	1.17
58	MP2C	Y	-32.3	4.17
59	MP2C	My	-.011	4.17
60	MP2C	Mz	.025	4.17
61	MP2A	Y	-74.7	2.67
62	MP2A	My	-.037	2.67
63	MP2A	Mz	0	2.67
64	MP2B	Y	-74.7	2.67
65	MP2B	My	.019	2.67
66	MP2B	Mz	-.032	2.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
67	MP2C	Y	-74.7	2.67
68	MP2C	My	.019	2.67
69	MP2C	Mz	.032	2.67
70	MP3A	Y	-70.3	2.67
71	MP3A	My	-.035	2.67
72	MP3A	Mz	0	2.67
73	MP3B	Y	-70.3	2.67
74	MP3B	My	.018	2.67
75	MP3B	Mz	-.03	2.67
76	MP3C	Y	-70.3	2.67
77	MP3C	My	.018	2.67
78	MP3C	Mz	.03	2.67
79	MP1A	Y	-18.7	2.67
80	MP1A	My	-.009	2.67
81	MP1A	Mz	0	2.67
82	MP1B	Y	-18.7	2.67
83	MP1B	My	.005	2.67
84	MP1B	Mz	-.008	2.67
85	MP1C	Y	-18.7	2.67
86	MP1C	My	.005	2.67
87	MP1C	Mz	.008	2.67
88	MP3B	Y	-32	2.5
89	MP3B	My	.008	2.5
90	MP3B	Mz	-.014	2.5
91	OVP1	Y	-32	1
92	OVP1	My	0	1
93	OVP1	Mz	0	1
94	MP4A	Y	-4.95	1.67
95	MP4A	My	-.002	1.67
96	MP4A	Mz	0	1.67
97	MP4A	Y	-4.95	3.67
98	MP4A	My	-.002	3.67
99	MP4A	Mz	0	3.67
100	MP4B	Y	-4.95	1.67
101	MP4B	My	.001	1.67
102	MP4B	Mz	-.002	1.67
103	MP4B	Y	-4.95	3.67
104	MP4B	My	.001	3.67
105	MP4B	Mz	-.002	3.67
106	MP4C	Y	-4.95	1.67
107	MP4C	My	.001	1.67
108	MP4C	Mz	.002	1.67
109	MP4C	Y	-4.95	3.67
110	MP4C	My	.001	3.67
111	MP4C	Mz	.002	3.67

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	Y	-16.553	4.5
2	MP2B	My	-.004	4.5
3	MP2B	Mz	.007	4.5
4	MP2C	Y	-16.553	4.5
5	MP2C	My	-.004	4.5
6	MP2C	Mz	-.007	4.5
7	MP1A	Y	-34.159	1.67
8	MP1A	My	-.017	1.67
9	MP1A	Mz	0	1.67
10	MP1A	Y	-34.159	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
11	MP1A	My	-.017	3.67
12	MP1A	Mz	0	3.67
13	MP1B	Y	-34.159	1.67
14	MP1B	My	.009	1.67
15	MP1B	Mz	-.015	1.67
16	MP1B	Y	-34.159	3.67
17	MP1B	My	.009	3.67
18	MP1B	Mz	-.015	3.67
19	MP1C	Y	-34.159	1.67
20	MP1C	My	.009	1.67
21	MP1C	Mz	.015	1.67
22	MP1C	Y	-34.159	3.67
23	MP1C	My	.009	3.67
24	MP1C	Mz	.015	3.67
25	MP2A	Y	-58.138	1.17
26	MP2A	My	-.029	1.17
27	MP2A	Mz	.039	1.17
28	MP2A	Y	-58.138	4.17
29	MP2A	My	-.029	4.17
30	MP2A	Mz	.039	4.17
31	MP2B	Y	-58.138	1.17
32	MP2B	My	-.019	1.17
33	MP2B	Mz	-.045	1.17
34	MP2B	Y	-58.138	4.17
35	MP2B	My	-.019	4.17
36	MP2B	Mz	-.045	4.17
37	MP2C	Y	-58.138	1.17
38	MP2C	My	.048	1.17
39	MP2C	Mz	.006	1.17
40	MP2C	Y	-58.138	4.17
41	MP2C	My	.048	4.17
42	MP2C	Mz	.006	4.17
43	MP2A	Y	-58.138	1.17
44	MP2A	My	-.029	1.17
45	MP2A	Mz	-.039	1.17
46	MP2A	Y	-58.138	4.17
47	MP2A	My	-.029	4.17
48	MP2A	Mz	-.039	4.17
49	MP2B	Y	-58.138	1.17
50	MP2B	My	.048	1.17
51	MP2B	Mz	-.006	1.17
52	MP2B	Y	-58.138	4.17
53	MP2B	My	.048	4.17
54	MP2B	Mz	-.006	4.17
55	MP2C	Y	-58.138	1.17
56	MP2C	My	-.019	1.17
57	MP2C	Mz	.045	1.17
58	MP2C	Y	-58.138	4.17
59	MP2C	My	-.019	4.17
60	MP2C	Mz	.045	4.17
61	MP2A	Y	-43.041	2.67
62	MP2A	My	-.022	2.67
63	MP2A	Mz	0	2.67
64	MP2B	Y	-43.041	2.67
65	MP2B	My	.011	2.67
66	MP2B	Mz	-.019	2.67
67	MP2C	Y	-43.041	2.67
68	MP2C	My	.011	2.67
69	MP2C	Mz	.019	2.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
70	MP3A	Y	-40.982	2.67
71	MP3A	My	-.02	2.67
72	MP3A	Mz	0	2.67
73	MP3B	Y	-40.982	2.67
74	MP3B	My	.01	2.67
75	MP3B	Mz	-.018	2.67
76	MP3C	Y	-40.982	2.67
77	MP3C	My	.01	2.67
78	MP3C	Mz	.018	2.67
79	MP1A	Y	-18.965	2.67
80	MP1A	My	-.009	2.67
81	MP1A	Mz	0	2.67
82	MP1B	Y	-18.965	2.67
83	MP1B	My	.005	2.67
84	MP1B	Mz	-.008	2.67
85	MP1C	Y	-18.965	2.67
86	MP1C	My	.005	2.67
87	MP1C	Mz	.008	2.67
88	MP3B	Y	-84.381	2.5
89	MP3B	My	.021	2.5
90	MP3B	Mz	-.037	2.5
91	OVP1	Y	-84.381	1
92	OVP1	My	0	1
93	OVP1	Mz	0	1
94	MP4A	Y	-34.165	1.67
95	MP4A	My	-.017	1.67
96	MP4A	Mz	0	1.67
97	MP4A	Y	-34.165	3.67
98	MP4A	My	-.017	3.67
99	MP4A	Mz	0	3.67
100	MP4B	Y	-34.165	1.67
101	MP4B	My	.009	1.67
102	MP4B	Mz	-.015	1.67
103	MP4B	Y	-34.165	3.67
104	MP4B	My	.009	3.67
105	MP4B	Mz	-.015	3.67
106	MP4C	Y	-34.165	1.67
107	MP4C	My	.009	1.67
108	MP4C	Mz	.015	1.67
109	MP4C	Y	-34.165	3.67
110	MP4C	My	.009	3.67
111	MP4C	Mz	.015	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	0	4.5
2	MP2B	Z	-17.817	4.5
3	MP2B	Mx	-.008	4.5
4	MP2C	X	0	4.5
5	MP2C	Z	-17.817	4.5
6	MP2C	Mx	.008	4.5
7	MP1A	X	0	1.67
8	MP1A	Z	-76.356	1.67
9	MP1A	Mx	0	1.67
10	MP1A	X	0	3.67
11	MP1A	Z	-76.356	3.67
12	MP1A	Mx	0	3.67
13	MP1B	X	0	1.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
14	MP1B	Z	-38.811	1.67
15	MP1B	Mx	.017	1.67
16	MP1B	X	0	3.67
17	MP1B	Z	-38.811	3.67
18	MP1B	Mx	.017	3.67
19	MP1C	X	0	1.67
20	MP1C	Z	-38.811	1.67
21	MP1C	Mx	-.017	1.67
22	MP1C	X	0	3.67
23	MP1C	Z	-38.811	3.67
24	MP1C	Mx	-.017	3.67
25	MP2A	X	0	1.17
26	MP2A	Z	-105.769	1.17
27	MP2A	Mx	-.071	1.17
28	MP2A	X	0	4.17
29	MP2A	Z	-105.769	4.17
30	MP2A	Mx	-.071	4.17
31	MP2B	X	0	1.17
32	MP2B	Z	-60.481	1.17
33	MP2B	Mx	.046	1.17
34	MP2B	X	0	4.17
35	MP2B	Z	-60.481	4.17
36	MP2B	Mx	.046	4.17
37	MP2C	X	0	1.17
38	MP2C	Z	-60.481	1.17
39	MP2C	Mx	-.006	1.17
40	MP2C	X	0	4.17
41	MP2C	Z	-60.481	4.17
42	MP2C	Mx	-.006	4.17
43	MP2A	X	0	1.17
44	MP2A	Z	-156.803	1.17
45	MP2A	Mx	.105	1.17
46	MP2A	X	0	4.17
47	MP2A	Z	-156.803	4.17
48	MP2A	Mx	.105	4.17
49	MP2B	X	0	1.17
50	MP2B	Z	-117.237	1.17
51	MP2B	Mx	.012	1.17
52	MP2B	X	0	4.17
53	MP2B	Z	-117.237	4.17
54	MP2B	Mx	.012	4.17
55	MP2C	X	0	1.17
56	MP2C	Z	-117.237	1.17
57	MP2C	Mx	-.09	1.17
58	MP2C	X	0	4.17
59	MP2C	Z	-117.237	4.17
60	MP2C	Mx	-.09	4.17
61	MP2A	X	0	2.67
62	MP2A	Z	-60.384	2.67
63	MP2A	Mx	0	2.67
64	MP2B	X	0	2.67
65	MP2B	Z	-45.483	2.67
66	MP2B	Mx	.02	2.67
67	MP2C	X	0	2.67
68	MP2C	Z	-45.483	2.67
69	MP2C	Mx	-.02	2.67
70	MP3A	X	0	2.67
71	MP3A	Z	-60.384	2.67
72	MP3A	Mx	0	2.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP3B	X	0	2.67
74	MP3B	Z	-42.561	2.67
75	MP3B	Mx	.018	2.67
76	MP3C	X	0	2.67
77	MP3C	Z	-42.561	2.67
78	MP3C	Mx	-.018	2.67
79	MP1A	X	0	2.67
80	MP1A	Z	-28.049	2.67
81	MP1A	Mx	0	2.67
82	MP1B	X	0	2.67
83	MP1B	Z	-16.946	2.67
84	MP1B	Mx	.007	2.67
85	MP1C	X	0	2.67
86	MP1C	Z	-16.946	2.67
87	MP1C	Mx	-.007	2.67
88	MP3B	X	0	2.5
89	MP3B	Z	-101.289	2.5
90	MP3B	Mx	.044	2.5
91	OVP1	X	0	1
92	OVP1	Z	-116.093	1
93	OVP1	Mx	0	1
94	MP4A	X	0	1.67
95	MP4A	Z	-91.735	1.67
96	MP4A	Mx	0	1.67
97	MP4A	X	0	3.67
98	MP4A	Z	-91.735	3.67
99	MP4A	Mx	0	3.67
100	MP4B	X	0	1.67
101	MP4B	Z	-59.623	1.67
102	MP4B	Mx	.026	1.67
103	MP4B	X	0	3.67
104	MP4B	Z	-59.623	3.67
105	MP4B	Mx	.026	3.67
106	MP4C	X	0	1.67
107	MP4C	Z	-59.623	1.67
108	MP4C	Mx	-.026	1.67
109	MP4C	X	0	3.67
110	MP4C	Z	-59.623	3.67
111	MP4C	Mx	-.026	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	5.659	4.5
2	MP2B	Z	-9.802	4.5
3	MP2B	Mx	-.006	4.5
4	MP2C	X	15.408	4.5
5	MP2C	Z	-26.688	4.5
6	MP2C	Mx	.008	4.5
7	MP1A	X	31.921	1.67
8	MP1A	Z	-55.288	1.67
9	MP1A	Mx	-.016	1.67
10	MP1A	X	31.921	3.67
11	MP1A	Z	-55.288	3.67
12	MP1A	Mx	-.016	3.67
13	MP1B	X	13.148	1.67
14	MP1B	Z	-22.773	1.67
15	MP1B	Mx	.013	1.67
16	MP1B	X	13.148	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
17	MP1B	Z	-22.773	3.67
18	MP1B	Mx	.013	3.67
19	MP1C	X	31.921	1.67
20	MP1C	Z	-55.288	1.67
21	MP1C	Mx	-.016	1.67
22	MP1C	X	31.921	3.67
23	MP1C	Z	-55.288	3.67
24	MP1C	Mx	-.016	3.67
25	MP2A	X	45.337	1.17
26	MP2A	Z	-78.525	1.17
27	MP2A	Mx	-.075	1.17
28	MP2A	X	45.337	4.17
29	MP2A	Z	-78.525	4.17
30	MP2A	Mx	-.075	4.17
31	MP2B	X	22.693	1.17
32	MP2B	Z	-39.305	1.17
33	MP2B	Mx	.023	1.17
34	MP2B	X	22.693	4.17
35	MP2B	Z	-39.305	4.17
36	MP2B	Mx	.023	4.17
37	MP2C	X	45.337	1.17
38	MP2C	Z	-78.525	1.17
39	MP2C	Mx	.03	1.17
40	MP2C	X	45.337	4.17
41	MP2C	Z	-78.525	4.17
42	MP2C	Mx	.03	4.17
43	MP2A	X	71.807	1.17
44	MP2A	Z	-124.374	1.17
45	MP2A	Mx	.047	1.17
46	MP2A	X	71.807	4.17
47	MP2A	Z	-124.374	4.17
48	MP2A	Mx	.047	4.17
49	MP2B	X	52.024	1.17
50	MP2B	Z	-90.109	1.17
51	MP2B	Mx	.052	1.17
52	MP2B	X	52.024	4.17
53	MP2B	Z	-90.109	4.17
54	MP2B	Mx	.052	4.17
55	MP2C	X	71.807	1.17
56	MP2C	Z	-124.374	1.17
57	MP2C	Mx	-.119	1.17
58	MP2C	X	71.807	4.17
59	MP2C	Z	-124.374	4.17
60	MP2C	Mx	-.119	4.17
61	MP2A	X	27.708	2.67
62	MP2A	Z	-47.992	2.67
63	MP2A	Mx	-.014	2.67
64	MP2B	X	20.258	2.67
65	MP2B	Z	-35.088	2.67
66	MP2B	Mx	.02	2.67
67	MP2C	X	27.708	2.67
68	MP2C	Z	-47.992	2.67
69	MP2C	Mx	-.014	2.67
70	MP3A	X	27.221	2.67
71	MP3A	Z	-47.149	2.67
72	MP3A	Mx	-.014	2.67
73	MP3B	X	18.31	2.67
74	MP3B	Z	-31.714	2.67
75	MP3B	Mx	.018	2.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
76	MP3C	X	27.221	2.67
77	MP3C	Z	-47.149	2.67
78	MP3C	Mx	-.014	2.67
79	MP1A	X	12.174	2.67
80	MP1A	Z	-21.086	2.67
81	MP1A	Mx	-.006	2.67
82	MP1B	X	6.623	2.67
83	MP1B	Z	-11.471	2.67
84	MP1B	Mx	.007	2.67
85	MP1C	X	12.174	2.67
86	MP1C	Z	-21.086	2.67
87	MP1C	Mx	-.006	2.67
88	MP3B	X	46.944	2.5
89	MP3B	Z	-81.309	2.5
90	MP3B	Mx	.047	2.5
91	OVP1	X	50.644	1
92	OVP1	Z	-87.719	1
93	OVP1	Mx	0	1
94	MP4A	X	40.515	1.67
95	MP4A	Z	-70.175	1.67
96	MP4A	Mx	-.02	1.67
97	MP4A	X	40.515	3.67
98	MP4A	Z	-70.175	3.67
99	MP4A	Mx	-.02	3.67
100	MP4B	X	24.46	1.67
101	MP4B	Z	-42.365	1.67
102	MP4B	Mx	.024	1.67
103	MP4B	X	24.46	3.67
104	MP4B	Z	-42.365	3.67
105	MP4B	Mx	.024	3.67
106	MP4C	X	40.515	1.67
107	MP4C	Z	-70.175	1.67
108	MP4C	Mx	-.02	1.67
109	MP4C	X	40.515	3.67
110	MP4C	Z	-70.175	3.67
111	MP4C	Mx	-.02	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	15.43	4.5
2	MP2B	Z	-8.909	4.5
3	MP2B	Mx	-.008	4.5
4	MP2C	X	32.316	4.5
5	MP2C	Z	-18.658	4.5
6	MP2C	Mx	0	4.5
7	MP1A	X	33.611	1.67
8	MP1A	Z	-19.406	1.67
9	MP1A	Mx	-.017	1.67
10	MP1A	X	33.611	3.67
11	MP1A	Z	-19.406	3.67
12	MP1A	Mx	-.017	3.67
13	MP1B	X	33.611	1.67
14	MP1B	Z	-19.406	1.67
15	MP1B	Mx	.017	1.67
16	MP1B	X	33.611	3.67
17	MP1B	Z	-19.406	3.67
18	MP1B	Mx	.017	3.67
19	MP1C	X	66.126	1.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
20	MP1C	Z	-38.178	1.67
21	MP1C	Mx	0	1.67
22	MP1C	X	66.126	3.67
23	MP1C	Z	-38.178	3.67
24	MP1C	Mx	0	3.67
25	MP2A	X	52.378	1.17
26	MP2A	Z	-30.241	1.17
27	MP2A	Mx	-.046	1.17
28	MP2A	X	52.378	4.17
29	MP2A	Z	-30.241	4.17
30	MP2A	Mx	-.046	4.17
31	MP2B	X	52.378	1.17
32	MP2B	Z	-30.241	1.17
33	MP2B	Mx	.006	1.17
34	MP2B	X	52.378	4.17
35	MP2B	Z	-30.241	4.17
36	MP2B	Mx	.006	4.17
37	MP2C	X	91.599	1.17
38	MP2C	Z	-52.885	1.17
39	MP2C	Mx	.071	1.17
40	MP2C	X	91.599	4.17
41	MP2C	Z	-52.885	4.17
42	MP2C	Mx	.071	4.17
43	MP2A	X	101.53	1.17
44	MP2A	Z	-58.619	1.17
45	MP2A	Mx	-.012	1.17
46	MP2A	X	101.53	4.17
47	MP2A	Z	-58.619	4.17
48	MP2A	Mx	-.012	4.17
49	MP2B	X	101.53	1.17
50	MP2B	Z	-58.619	1.17
51	MP2B	Mx	.09	1.17
52	MP2B	X	101.53	4.17
53	MP2B	Z	-58.619	4.17
54	MP2B	Mx	.09	4.17
55	MP2C	X	135.795	1.17
56	MP2C	Z	-78.402	1.17
57	MP2C	Mx	-.105	1.17
58	MP2C	X	135.795	4.17
59	MP2C	Z	-78.402	4.17
60	MP2C	Mx	-.105	4.17
61	MP2A	X	39.389	2.67
62	MP2A	Z	-22.741	2.67
63	MP2A	Mx	-.02	2.67
64	MP2B	X	39.389	2.67
65	MP2B	Z	-22.741	2.67
66	MP2B	Mx	.02	2.67
67	MP2C	X	52.294	2.67
68	MP2C	Z	-30.192	2.67
69	MP2C	Mx	0	2.67
70	MP3A	X	36.859	2.67
71	MP3A	Z	-21.28	2.67
72	MP3A	Mx	-.018	2.67
73	MP3B	X	36.859	2.67
74	MP3B	Z	-21.28	2.67
75	MP3B	Mx	.018	2.67
76	MP3C	X	52.294	2.67
77	MP3C	Z	-30.192	2.67
78	MP3C	Mx	0	2.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
79	MP1A	X	14.676	2.67
80	MP1A	Z	-8.473	2.67
81	MP1A	Mx	-.007	2.67
82	MP1B	X	14.676	2.67
83	MP1B	Z	-8.473	2.67
84	MP1B	Mx	.007	2.67
85	MP1C	X	24.291	2.67
86	MP1C	Z	-14.025	2.67
87	MP1C	Mx	0	2.67
88	MP3B	X	87.719	2.5
89	MP3B	Z	-50.644	2.5
90	MP3B	Mx	.044	2.5
91	OVP1	X	81.309	1
92	OVP1	Z	-46.944	1
93	OVP1	Mx	0	1
94	MP4A	X	51.635	1.67
95	MP4A	Z	-29.812	1.67
96	MP4A	Mx	-.026	1.67
97	MP4A	X	51.635	3.67
98	MP4A	Z	-29.812	3.67
99	MP4A	Mx	-.026	3.67
100	MP4B	X	51.635	1.67
101	MP4B	Z	-29.812	1.67
102	MP4B	Mx	.026	1.67
103	MP4B	X	51.635	3.67
104	MP4B	Z	-29.812	3.67
105	MP4B	Mx	.026	3.67
106	MP4C	X	79.444	1.67
107	MP4C	Z	-45.867	1.67
108	MP4C	Mx	0	1.67
109	MP4C	X	79.444	3.67
110	MP4C	Z	-45.867	3.67
111	MP4C	Mx	0	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	30.816	4.5
2	MP2B	Z	0	4.5
3	MP2B	Mx	-.008	4.5
4	MP2C	X	30.816	4.5
5	MP2C	Z	0	4.5
6	MP2C	Mx	-.008	4.5
7	MP1A	X	26.296	1.67
8	MP1A	Z	0	1.67
9	MP1A	Mx	-.013	1.67
10	MP1A	X	26.296	3.67
11	MP1A	Z	0	3.67
12	MP1A	Mx	-.013	3.67
13	MP1B	X	63.841	1.67
14	MP1B	Z	0	1.67
15	MP1B	Mx	.016	1.67
16	MP1B	X	63.841	3.67
17	MP1B	Z	0	3.67
18	MP1B	Mx	.016	3.67
19	MP1C	X	63.841	1.67
20	MP1C	Z	0	1.67
21	MP1C	Mx	.016	1.67
22	MP1C	X	63.841	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
23	MP1C	Z	0	3.67
24	MP1C	Mx	.016	3.67
25	MP2A	X	45.385	1.17
26	MP2A	Z	0	1.17
27	MP2A	Mx	-.023	1.17
28	MP2A	X	45.385	4.17
29	MP2A	Z	0	4.17
30	MP2A	Mx	-.023	4.17
31	MP2B	X	90.673	1.17
32	MP2B	Z	0	1.17
33	MP2B	Mx	-.03	1.17
34	MP2B	X	90.673	4.17
35	MP2B	Z	0	4.17
36	MP2B	Mx	-.03	4.17
37	MP2C	X	90.673	1.17
38	MP2C	Z	0	1.17
39	MP2C	Mx	.075	1.17
40	MP2C	X	90.673	4.17
41	MP2C	Z	0	4.17
42	MP2C	Mx	.075	4.17
43	MP2A	X	104.048	1.17
44	MP2A	Z	0	1.17
45	MP2A	Mx	-.052	1.17
46	MP2A	X	104.048	4.17
47	MP2A	Z	0	4.17
48	MP2A	Mx	-.052	4.17
49	MP2B	X	143.614	1.17
50	MP2B	Z	0	1.17
51	MP2B	Mx	.119	1.17
52	MP2B	X	143.614	4.17
53	MP2B	Z	0	4.17
54	MP2B	Mx	.119	4.17
55	MP2C	X	143.614	1.17
56	MP2C	Z	0	1.17
57	MP2C	Mx	-.047	1.17
58	MP2C	X	143.614	4.17
59	MP2C	Z	0	4.17
60	MP2C	Mx	-.047	4.17
61	MP2A	X	40.516	2.67
62	MP2A	Z	0	2.67
63	MP2A	Mx	-.02	2.67
64	MP2B	X	55.417	2.67
65	MP2B	Z	0	2.67
66	MP2B	Mx	.014	2.67
67	MP2C	X	55.417	2.67
68	MP2C	Z	0	2.67
69	MP2C	Mx	.014	2.67
70	MP3A	X	36.62	2.67
71	MP3A	Z	0	2.67
72	MP3A	Mx	-.018	2.67
73	MP3B	X	54.443	2.67
74	MP3B	Z	0	2.67
75	MP3B	Mx	.014	2.67
76	MP3C	X	54.443	2.67
77	MP3C	Z	0	2.67
78	MP3C	Mx	.014	2.67
79	MP1A	X	13.245	2.67
80	MP1A	Z	0	2.67
81	MP1A	Mx	-.007	2.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
82	MP1B	X	24.348	2.67
83	MP1B	Z	0	2.67
84	MP1B	Mx	.006	2.67
85	MP1C	X	24.348	2.67
86	MP1C	Z	0	2.67
87	MP1C	Mx	.006	2.67
88	MP3B	X	116.093	2.5
89	MP3B	Z	0	2.5
90	MP3B	Mx	.029	2.5
91	OVP1	X	101.289	1
92	OVP1	Z	0	1
93	OVP1	Mx	0	1
94	MP4A	X	48.919	1.67
95	MP4A	Z	0	1.67
96	MP4A	Mx	-.024	1.67
97	MP4A	X	48.919	3.67
98	MP4A	Z	0	3.67
99	MP4A	Mx	-.024	3.67
100	MP4B	X	81.031	1.67
101	MP4B	Z	0	1.67
102	MP4B	Mx	.02	1.67
103	MP4B	X	81.031	3.67
104	MP4B	Z	0	3.67
105	MP4B	Mx	.02	3.67
106	MP4C	X	81.031	1.67
107	MP4C	Z	0	1.67
108	MP4C	Mx	.02	1.67
109	MP4C	X	81.031	3.67
110	MP4C	Z	0	3.67
111	MP4C	Mx	.02	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	32.316	4.5
2	MP2B	Z	18.658	4.5
3	MP2B	Mx	0	4.5
4	MP2C	X	15.43	4.5
5	MP2C	Z	8.909	4.5
6	MP2C	Mx	-.008	4.5
7	MP1A	X	33.611	1.67
8	MP1A	Z	19.406	1.67
9	MP1A	Mx	-.017	1.67
10	MP1A	X	33.611	3.67
11	MP1A	Z	19.406	3.67
12	MP1A	Mx	-.017	3.67
13	MP1B	X	66.126	1.67
14	MP1B	Z	38.178	1.67
15	MP1B	Mx	0	1.67
16	MP1B	X	66.126	3.67
17	MP1B	Z	38.178	3.67
18	MP1B	Mx	0	3.67
19	MP1C	X	33.611	1.67
20	MP1C	Z	19.406	1.67
21	MP1C	Mx	.017	1.67
22	MP1C	X	33.611	3.67
23	MP1C	Z	19.406	3.67
24	MP1C	Mx	.017	3.67
25	MP2A	X	52.378	1.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
26	MP2A	Z	30.241	1.17
27	MP2A	Mx	-.006	1.17
28	MP2A	X	52.378	4.17
29	MP2A	Z	30.241	4.17
30	MP2A	Mx	-.006	4.17
31	MP2B	X	91.599	1.17
32	MP2B	Z	52.885	1.17
33	MP2B	Mx	-.071	1.17
34	MP2B	X	91.599	4.17
35	MP2B	Z	52.885	4.17
36	MP2B	Mx	-.071	4.17
37	MP2C	X	52.378	1.17
38	MP2C	Z	30.241	1.17
39	MP2C	Mx	.046	1.17
40	MP2C	X	52.378	4.17
41	MP2C	Z	30.241	4.17
42	MP2C	Mx	.046	4.17
43	MP2A	X	101.53	1.17
44	MP2A	Z	58.619	1.17
45	MP2A	Mx	-.09	1.17
46	MP2A	X	101.53	4.17
47	MP2A	Z	58.619	4.17
48	MP2A	Mx	-.09	4.17
49	MP2B	X	135.795	1.17
50	MP2B	Z	78.402	1.17
51	MP2B	Mx	.105	1.17
52	MP2B	X	135.795	4.17
53	MP2B	Z	78.402	4.17
54	MP2B	Mx	.105	4.17
55	MP2C	X	101.53	1.17
56	MP2C	Z	58.619	1.17
57	MP2C	Mx	.012	1.17
58	MP2C	X	101.53	4.17
59	MP2C	Z	58.619	4.17
60	MP2C	Mx	.012	4.17
61	MP2A	X	39.389	2.67
62	MP2A	Z	22.741	2.67
63	MP2A	Mx	-.02	2.67
64	MP2B	X	52.294	2.67
65	MP2B	Z	30.192	2.67
66	MP2B	Mx	0	2.67
67	MP2C	X	39.389	2.67
68	MP2C	Z	22.741	2.67
69	MP2C	Mx	.02	2.67
70	MP3A	X	36.859	2.67
71	MP3A	Z	21.28	2.67
72	MP3A	Mx	-.018	2.67
73	MP3B	X	52.294	2.67
74	MP3B	Z	30.192	2.67
75	MP3B	Mx	0	2.67
76	MP3C	X	36.859	2.67
77	MP3C	Z	21.28	2.67
78	MP3C	Mx	.018	2.67
79	MP1A	X	14.676	2.67
80	MP1A	Z	8.473	2.67
81	MP1A	Mx	-.007	2.67
82	MP1B	X	24.291	2.67
83	MP1B	Z	14.025	2.67
84	MP1B	Mx	0	2.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
85	MP1C	X	14.676	2.67
86	MP1C	Z	8.473	2.67
87	MP1C	Mx	.007	2.67
88	MP3B	X	106.949	2.5
89	MP3B	Z	61.747	2.5
90	MP3B	Mx	0	2.5
91	OVP1	X	100.539	1
92	OVP1	Z	58.046	1
93	OVP1	Mx	0	1
94	MP4A	X	51.635	1.67
95	MP4A	Z	29.812	1.67
96	MP4A	Mx	-.026	1.67
97	MP4A	X	51.635	3.67
98	MP4A	Z	29.812	3.67
99	MP4A	Mx	-.026	3.67
100	MP4B	X	79.444	1.67
101	MP4B	Z	45.867	1.67
102	MP4B	Mx	0	1.67
103	MP4B	X	79.444	3.67
104	MP4B	Z	45.867	3.67
105	MP4B	Mx	0	3.67
106	MP4C	X	51.635	1.67
107	MP4C	Z	29.812	1.67
108	MP4C	Mx	.026	1.67
109	MP4C	X	51.635	3.67
110	MP4C	Z	29.812	3.67
111	MP4C	Mx	.026	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	15.408	4.5
2	MP2B	Z	26.688	4.5
3	MP2B	Mx	.008	4.5
4	MP2C	X	5.659	4.5
5	MP2C	Z	9.802	4.5
6	MP2C	Mx	-.006	4.5
7	MP1A	X	31.921	1.67
8	MP1A	Z	55.288	1.67
9	MP1A	Mx	-.016	1.67
10	MP1A	X	31.921	3.67
11	MP1A	Z	55.288	3.67
12	MP1A	Mx	-.016	3.67
13	MP1B	X	31.921	1.67
14	MP1B	Z	55.288	1.67
15	MP1B	Mx	-.016	1.67
16	MP1B	X	31.921	3.67
17	MP1B	Z	55.288	3.67
18	MP1B	Mx	-.016	3.67
19	MP1C	X	13.148	1.67
20	MP1C	Z	22.773	1.67
21	MP1C	Mx	.013	1.67
22	MP1C	X	13.148	3.67
23	MP1C	Z	22.773	3.67
24	MP1C	Mx	.013	3.67
25	MP2A	X	45.337	1.17
26	MP2A	Z	78.525	1.17
27	MP2A	Mx	.03	1.17
28	MP2A	X	45.337	4.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP2A	Z	78.525	4.17
30	MP2A	Mx	.03	4.17
31	MP2B	X	45.337	1.17
32	MP2B	Z	78.525	1.17
33	MP2B	Mx	-.075	1.17
34	MP2B	X	45.337	4.17
35	MP2B	Z	78.525	4.17
36	MP2B	Mx	-.075	4.17
37	MP2C	X	22.693	1.17
38	MP2C	Z	39.305	1.17
39	MP2C	Mx	.023	1.17
40	MP2C	X	22.693	4.17
41	MP2C	Z	39.305	4.17
42	MP2C	Mx	.023	4.17
43	MP2A	X	71.807	1.17
44	MP2A	Z	124.374	1.17
45	MP2A	Mx	-.119	1.17
46	MP2A	X	71.807	4.17
47	MP2A	Z	124.374	4.17
48	MP2A	Mx	-.119	4.17
49	MP2B	X	71.807	1.17
50	MP2B	Z	124.374	1.17
51	MP2B	Mx	.047	1.17
52	MP2B	X	71.807	4.17
53	MP2B	Z	124.374	4.17
54	MP2B	Mx	.047	4.17
55	MP2C	X	52.024	1.17
56	MP2C	Z	90.109	1.17
57	MP2C	Mx	.052	1.17
58	MP2C	X	52.024	4.17
59	MP2C	Z	90.109	4.17
60	MP2C	Mx	.052	4.17
61	MP2A	X	27.708	2.67
62	MP2A	Z	47.992	2.67
63	MP2A	Mx	-.014	2.67
64	MP2B	X	27.708	2.67
65	MP2B	Z	47.992	2.67
66	MP2B	Mx	-.014	2.67
67	MP2C	X	20.258	2.67
68	MP2C	Z	35.088	2.67
69	MP2C	Mx	.02	2.67
70	MP3A	X	27.221	2.67
71	MP3A	Z	47.149	2.67
72	MP3A	Mx	-.014	2.67
73	MP3B	X	27.221	2.67
74	MP3B	Z	47.149	2.67
75	MP3B	Mx	-.014	2.67
76	MP3C	X	18.31	2.67
77	MP3C	Z	31.714	2.67
78	MP3C	Mx	.018	2.67
79	MP1A	X	12.174	2.67
80	MP1A	Z	21.086	2.67
81	MP1A	Mx	-.006	2.67
82	MP1B	X	12.174	2.67
83	MP1B	Z	21.086	2.67
84	MP1B	Mx	-.006	2.67
85	MP1C	X	6.623	2.67
86	MP1C	Z	11.471	2.67
87	MP1C	Mx	.007	2.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
88	MP3B	X	58.046	2.5
89	MP3B	Z	100.539	2.5
90	MP3B	Mx	-.029	2.5
91	OVP1	X	61.747	1
92	OVP1	Z	106.949	1
93	OVP1	Mx	0	1
94	MP4A	X	40.515	1.67
95	MP4A	Z	70.175	1.67
96	MP4A	Mx	-.02	1.67
97	MP4A	X	40.515	3.67
98	MP4A	Z	70.175	3.67
99	MP4A	Mx	-.02	3.67
100	MP4B	X	40.515	1.67
101	MP4B	Z	70.175	1.67
102	MP4B	Mx	-.02	1.67
103	MP4B	X	40.515	3.67
104	MP4B	Z	70.175	3.67
105	MP4B	Mx	-.02	3.67
106	MP4C	X	24.46	1.67
107	MP4C	Z	42.365	1.67
108	MP4C	Mx	.024	1.67
109	MP4C	X	24.46	3.67
110	MP4C	Z	42.365	3.67
111	MP4C	Mx	.024	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	0	4.5
2	MP2B	Z	17.817	4.5
3	MP2B	Mx	.008	4.5
4	MP2C	X	0	4.5
5	MP2C	Z	17.817	4.5
6	MP2C	Mx	-.008	4.5
7	MP1A	X	0	1.67
8	MP1A	Z	76.356	1.67
9	MP1A	Mx	0	1.67
10	MP1A	X	0	3.67
11	MP1A	Z	76.356	3.67
12	MP1A	Mx	0	3.67
13	MP1B	X	0	1.67
14	MP1B	Z	38.811	1.67
15	MP1B	Mx	-.017	1.67
16	MP1B	X	0	3.67
17	MP1B	Z	38.811	3.67
18	MP1B	Mx	-.017	3.67
19	MP1C	X	0	1.67
20	MP1C	Z	38.811	1.67
21	MP1C	Mx	.017	1.67
22	MP1C	X	0	3.67
23	MP1C	Z	38.811	3.67
24	MP1C	Mx	.017	3.67
25	MP2A	X	0	1.17
26	MP2A	Z	105.769	1.17
27	MP2A	Mx	.071	1.17
28	MP2A	X	0	4.17
29	MP2A	Z	105.769	4.17
30	MP2A	Mx	.071	4.17
31	MP2B	X	0	1.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
32	MP2B	Z	60.481	1.17
33	MP2B	Mx	-.046	1.17
34	MP2B	X	0	4.17
35	MP2B	Z	60.481	4.17
36	MP2B	Mx	-.046	4.17
37	MP2C	X	0	1.17
38	MP2C	Z	60.481	1.17
39	MP2C	Mx	.006	1.17
40	MP2C	X	0	4.17
41	MP2C	Z	60.481	4.17
42	MP2C	Mx	.006	4.17
43	MP2A	X	0	1.17
44	MP2A	Z	156.803	1.17
45	MP2A	Mx	-.105	1.17
46	MP2A	X	0	4.17
47	MP2A	Z	156.803	4.17
48	MP2A	Mx	-.105	4.17
49	MP2B	X	0	1.17
50	MP2B	Z	117.237	1.17
51	MP2B	Mx	-.012	1.17
52	MP2B	X	0	4.17
53	MP2B	Z	117.237	4.17
54	MP2B	Mx	-.012	4.17
55	MP2C	X	0	1.17
56	MP2C	Z	117.237	1.17
57	MP2C	Mx	.09	1.17
58	MP2C	X	0	4.17
59	MP2C	Z	117.237	4.17
60	MP2C	Mx	.09	4.17
61	MP2A	X	0	2.67
62	MP2A	Z	60.384	2.67
63	MP2A	Mx	0	2.67
64	MP2B	X	0	2.67
65	MP2B	Z	45.483	2.67
66	MP2B	Mx	-.02	2.67
67	MP2C	X	0	2.67
68	MP2C	Z	45.483	2.67
69	MP2C	Mx	.02	2.67
70	MP3A	X	0	2.67
71	MP3A	Z	60.384	2.67
72	MP3A	Mx	0	2.67
73	MP3B	X	0	2.67
74	MP3B	Z	42.561	2.67
75	MP3B	Mx	-.018	2.67
76	MP3C	X	0	2.67
77	MP3C	Z	42.561	2.67
78	MP3C	Mx	.018	2.67
79	MP1A	X	0	2.67
80	MP1A	Z	28.049	2.67
81	MP1A	Mx	0	2.67
82	MP1B	X	0	2.67
83	MP1B	Z	16.946	2.67
84	MP1B	Mx	-.007	2.67
85	MP1C	X	0	2.67
86	MP1C	Z	16.946	2.67
87	MP1C	Mx	.007	2.67
88	MP3B	X	0	2.5
89	MP3B	Z	101.289	2.5
90	MP3B	Mx	-.044	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
91	OVP1	X	0	1
92	OVP1	Z	116.093	1
93	OVP1	Mx	0	1
94	MP4A	X	0	1.67
95	MP4A	Z	91.735	1.67
96	MP4A	Mx	0	1.67
97	MP4A	X	0	3.67
98	MP4A	Z	91.735	3.67
99	MP4A	Mx	0	3.67
100	MP4B	X	0	1.67
101	MP4B	Z	59.623	1.67
102	MP4B	Mx	-.026	1.67
103	MP4B	X	0	3.67
104	MP4B	Z	59.623	3.67
105	MP4B	Mx	-.026	3.67
106	MP4C	X	0	1.67
107	MP4C	Z	59.623	1.67
108	MP4C	Mx	.026	1.67
109	MP4C	X	0	3.67
110	MP4C	Z	59.623	3.67
111	MP4C	Mx	.026	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-5.659	4.5
2	MP2B	Z	9.802	4.5
3	MP2B	Mx	.006	4.5
4	MP2C	X	-15.408	4.5
5	MP2C	Z	26.688	4.5
6	MP2C	Mx	-.008	4.5
7	MP1A	X	-31.921	1.67
8	MP1A	Z	55.288	1.67
9	MP1A	Mx	.016	1.67
10	MP1A	X	-31.921	3.67
11	MP1A	Z	55.288	3.67
12	MP1A	Mx	.016	3.67
13	MP1B	X	-13.148	1.67
14	MP1B	Z	22.773	1.67
15	MP1B	Mx	-.013	1.67
16	MP1B	X	-13.148	3.67
17	MP1B	Z	22.773	3.67
18	MP1B	Mx	-.013	3.67
19	MP1C	X	-31.921	1.67
20	MP1C	Z	55.288	1.67
21	MP1C	Mx	.016	1.67
22	MP1C	X	-31.921	3.67
23	MP1C	Z	55.288	3.67
24	MP1C	Mx	.016	3.67
25	MP2A	X	-45.337	1.17
26	MP2A	Z	78.525	1.17
27	MP2A	Mx	.075	1.17
28	MP2A	X	-45.337	4.17
29	MP2A	Z	78.525	4.17
30	MP2A	Mx	.075	4.17
31	MP2B	X	-22.693	1.17
32	MP2B	Z	39.305	1.17
33	MP2B	Mx	-.023	1.17
34	MP2B	X	-22.693	4.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	MP2B	Z	39.305	4.17
36	MP2B	Mx	-.023	4.17
37	MP2C	X	-45.337	1.17
38	MP2C	Z	78.525	1.17
39	MP2C	Mx	-.03	1.17
40	MP2C	X	-45.337	4.17
41	MP2C	Z	78.525	4.17
42	MP2C	Mx	-.03	4.17
43	MP2A	X	-71.807	1.17
44	MP2A	Z	124.374	1.17
45	MP2A	Mx	-.047	1.17
46	MP2A	X	-71.807	4.17
47	MP2A	Z	124.374	4.17
48	MP2A	Mx	-.047	4.17
49	MP2B	X	-52.024	1.17
50	MP2B	Z	90.109	1.17
51	MP2B	Mx	-.052	1.17
52	MP2B	X	-52.024	4.17
53	MP2B	Z	90.109	4.17
54	MP2B	Mx	-.052	4.17
55	MP2C	X	-71.807	1.17
56	MP2C	Z	124.374	1.17
57	MP2C	Mx	.119	1.17
58	MP2C	X	-71.807	4.17
59	MP2C	Z	124.374	4.17
60	MP2C	Mx	.119	4.17
61	MP2A	X	-27.708	2.67
62	MP2A	Z	47.992	2.67
63	MP2A	Mx	.014	2.67
64	MP2B	X	-20.258	2.67
65	MP2B	Z	35.088	2.67
66	MP2B	Mx	-.02	2.67
67	MP2C	X	-27.708	2.67
68	MP2C	Z	47.992	2.67
69	MP2C	Mx	.014	2.67
70	MP3A	X	-27.221	2.67
71	MP3A	Z	47.149	2.67
72	MP3A	Mx	.014	2.67
73	MP3B	X	-18.31	2.67
74	MP3B	Z	31.714	2.67
75	MP3B	Mx	-.018	2.67
76	MP3C	X	-27.221	2.67
77	MP3C	Z	47.149	2.67
78	MP3C	Mx	.014	2.67
79	MP1A	X	-12.174	2.67
80	MP1A	Z	21.086	2.67
81	MP1A	Mx	.006	2.67
82	MP1B	X	-6.623	2.67
83	MP1B	Z	11.471	2.67
84	MP1B	Mx	-.007	2.67
85	MP1C	X	-12.174	2.67
86	MP1C	Z	21.086	2.67
87	MP1C	Mx	.006	2.67
88	MP3B	X	-46.944	2.5
89	MP3B	Z	81.309	2.5
90	MP3B	Mx	-.047	2.5
91	OVP1	X	-50.644	1
92	OVP1	Z	87.719	1
93	OVP1	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
94	MP4A	X	-40.515	1.67
95	MP4A	Z	70.175	1.67
96	MP4A	Mx	.02	1.67
97	MP4A	X	-40.515	3.67
98	MP4A	Z	70.175	3.67
99	MP4A	Mx	.02	3.67
100	MP4B	X	-24.46	1.67
101	MP4B	Z	42.365	1.67
102	MP4B	Mx	-.024	1.67
103	MP4B	X	-24.46	3.67
104	MP4B	Z	42.365	3.67
105	MP4B	Mx	-.024	3.67
106	MP4C	X	-40.515	1.67
107	MP4C	Z	70.175	1.67
108	MP4C	Mx	.02	1.67
109	MP4C	X	-40.515	3.67
110	MP4C	Z	70.175	3.67
111	MP4C	Mx	.02	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-15.43	4.5
2	MP2B	Z	8.909	4.5
3	MP2B	Mx	.008	4.5
4	MP2C	X	-32.316	4.5
5	MP2C	Z	18.658	4.5
6	MP2C	Mx	0	4.5
7	MP1A	X	-33.611	1.67
8	MP1A	Z	19.406	1.67
9	MP1A	Mx	.017	1.67
10	MP1A	X	-33.611	3.67
11	MP1A	Z	19.406	3.67
12	MP1A	Mx	.017	3.67
13	MP1B	X	-33.611	1.67
14	MP1B	Z	19.406	1.67
15	MP1B	Mx	-.017	1.67
16	MP1B	X	-33.611	3.67
17	MP1B	Z	19.406	3.67
18	MP1B	Mx	-.017	3.67
19	MP1C	X	-66.126	1.67
20	MP1C	Z	38.178	1.67
21	MP1C	Mx	0	1.67
22	MP1C	X	-66.126	3.67
23	MP1C	Z	38.178	3.67
24	MP1C	Mx	0	3.67
25	MP2A	X	-52.378	1.17
26	MP2A	Z	30.241	1.17
27	MP2A	Mx	.046	1.17
28	MP2A	X	-52.378	4.17
29	MP2A	Z	30.241	4.17
30	MP2A	Mx	.046	4.17
31	MP2B	X	-52.378	1.17
32	MP2B	Z	30.241	1.17
33	MP2B	Mx	-.006	1.17
34	MP2B	X	-52.378	4.17
35	MP2B	Z	30.241	4.17
36	MP2B	Mx	-.006	4.17
37	MP2C	X	-91.599	1.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
38	MP2C	Z	52.885	1.17
39	MP2C	Mx	-.071	1.17
40	MP2C	X	-91.599	4.17
41	MP2C	Z	52.885	4.17
42	MP2C	Mx	-.071	4.17
43	MP2A	X	-101.53	1.17
44	MP2A	Z	58.619	1.17
45	MP2A	Mx	.012	1.17
46	MP2A	X	-101.53	4.17
47	MP2A	Z	58.619	4.17
48	MP2A	Mx	.012	4.17
49	MP2B	X	-101.53	1.17
50	MP2B	Z	58.619	1.17
51	MP2B	Mx	-.09	1.17
52	MP2B	X	-101.53	4.17
53	MP2B	Z	58.619	4.17
54	MP2B	Mx	-.09	4.17
55	MP2C	X	-135.795	1.17
56	MP2C	Z	78.402	1.17
57	MP2C	Mx	.105	1.17
58	MP2C	X	-135.795	4.17
59	MP2C	Z	78.402	4.17
60	MP2C	Mx	.105	4.17
61	MP2A	X	-39.389	2.67
62	MP2A	Z	22.741	2.67
63	MP2A	Mx	.02	2.67
64	MP2B	X	-39.389	2.67
65	MP2B	Z	22.741	2.67
66	MP2B	Mx	-.02	2.67
67	MP2C	X	-52.294	2.67
68	MP2C	Z	30.192	2.67
69	MP2C	Mx	0	2.67
70	MP3A	X	-36.859	2.67
71	MP3A	Z	21.28	2.67
72	MP3A	Mx	.018	2.67
73	MP3B	X	-36.859	2.67
74	MP3B	Z	21.28	2.67
75	MP3B	Mx	-.018	2.67
76	MP3C	X	-52.294	2.67
77	MP3C	Z	30.192	2.67
78	MP3C	Mx	0	2.67
79	MP1A	X	-14.676	2.67
80	MP1A	Z	8.473	2.67
81	MP1A	Mx	.007	2.67
82	MP1B	X	-14.676	2.67
83	MP1B	Z	8.473	2.67
84	MP1B	Mx	-.007	2.67
85	MP1C	X	-24.291	2.67
86	MP1C	Z	14.025	2.67
87	MP1C	Mx	0	2.67
88	MP3B	X	-87.719	2.5
89	MP3B	Z	50.644	2.5
90	MP3B	Mx	-.044	2.5
91	OVP1	X	-81.309	1
92	OVP1	Z	46.944	1
93	OVP1	Mx	0	1
94	MP4A	X	-51.635	1.67
95	MP4A	Z	29.812	1.67
96	MP4A	Mx	.026	1.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
97	MP4A	X	-51.635	3.67
98	MP4A	Z	29.812	3.67
99	MP4A	Mx	.026	3.67
100	MP4B	X	-51.635	1.67
101	MP4B	Z	29.812	1.67
102	MP4B	Mx	-.026	1.67
103	MP4B	X	-51.635	3.67
104	MP4B	Z	29.812	3.67
105	MP4B	Mx	-.026	3.67
106	MP4C	X	-79.444	1.67
107	MP4C	Z	45.867	1.67
108	MP4C	Mx	0	1.67
109	MP4C	X	-79.444	3.67
110	MP4C	Z	45.867	3.67
111	MP4C	Mx	0	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-30.816	4.5
2	MP2B	Z	0	4.5
3	MP2B	Mx	.008	4.5
4	MP2C	X	-30.816	4.5
5	MP2C	Z	0	4.5
6	MP2C	Mx	.008	4.5
7	MP1A	X	-26.296	1.67
8	MP1A	Z	0	1.67
9	MP1A	Mx	.013	1.67
10	MP1A	X	-26.296	3.67
11	MP1A	Z	0	3.67
12	MP1A	Mx	.013	3.67
13	MP1B	X	-63.841	1.67
14	MP1B	Z	0	1.67
15	MP1B	Mx	-.016	1.67
16	MP1B	X	-63.841	3.67
17	MP1B	Z	0	3.67
18	MP1B	Mx	-.016	3.67
19	MP1C	X	-63.841	1.67
20	MP1C	Z	0	1.67
21	MP1C	Mx	-.016	1.67
22	MP1C	X	-63.841	3.67
23	MP1C	Z	0	3.67
24	MP1C	Mx	-.016	3.67
25	MP2A	X	-45.385	1.17
26	MP2A	Z	0	1.17
27	MP2A	Mx	.023	1.17
28	MP2A	X	-45.385	4.17
29	MP2A	Z	0	4.17
30	MP2A	Mx	.023	4.17
31	MP2B	X	-90.673	1.17
32	MP2B	Z	0	1.17
33	MP2B	Mx	.03	1.17
34	MP2B	X	-90.673	4.17
35	MP2B	Z	0	4.17
36	MP2B	Mx	.03	4.17
37	MP2C	X	-90.673	1.17
38	MP2C	Z	0	1.17
39	MP2C	Mx	-.075	1.17
40	MP2C	X	-90.673	4.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
41	MP2C	Z	0	4.17
42	MP2C	Mx	-.075	4.17
43	MP2A	X	-104.048	1.17
44	MP2A	Z	0	1.17
45	MP2A	Mx	.052	1.17
46	MP2A	X	-104.048	4.17
47	MP2A	Z	0	4.17
48	MP2A	Mx	.052	4.17
49	MP2B	X	-143.614	1.17
50	MP2B	Z	0	1.17
51	MP2B	Mx	-.119	1.17
52	MP2B	X	-143.614	4.17
53	MP2B	Z	0	4.17
54	MP2B	Mx	-.119	4.17
55	MP2C	X	-143.614	1.17
56	MP2C	Z	0	1.17
57	MP2C	Mx	.047	1.17
58	MP2C	X	-143.614	4.17
59	MP2C	Z	0	4.17
60	MP2C	Mx	.047	4.17
61	MP2A	X	-40.516	2.67
62	MP2A	Z	0	2.67
63	MP2A	Mx	.02	2.67
64	MP2B	X	-55.417	2.67
65	MP2B	Z	0	2.67
66	MP2B	Mx	-.014	2.67
67	MP2C	X	-55.417	2.67
68	MP2C	Z	0	2.67
69	MP2C	Mx	-.014	2.67
70	MP3A	X	-36.62	2.67
71	MP3A	Z	0	2.67
72	MP3A	Mx	.018	2.67
73	MP3B	X	-54.443	2.67
74	MP3B	Z	0	2.67
75	MP3B	Mx	-.014	2.67
76	MP3C	X	-54.443	2.67
77	MP3C	Z	0	2.67
78	MP3C	Mx	-.014	2.67
79	MP1A	X	-13.245	2.67
80	MP1A	Z	0	2.67
81	MP1A	Mx	.007	2.67
82	MP1B	X	-24.348	2.67
83	MP1B	Z	0	2.67
84	MP1B	Mx	-.006	2.67
85	MP1C	X	-24.348	2.67
86	MP1C	Z	0	2.67
87	MP1C	Mx	-.006	2.67
88	MP3B	X	-116.093	2.5
89	MP3B	Z	0	2.5
90	MP3B	Mx	-.029	2.5
91	OVP1	X	-101.289	1
92	OVP1	Z	0	1
93	OVP1	Mx	0	1
94	MP4A	X	-48.919	1.67
95	MP4A	Z	0	1.67
96	MP4A	Mx	.024	1.67
97	MP4A	X	-48.919	3.67
98	MP4A	Z	0	3.67
99	MP4A	Mx	.024	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
100	MP4B	X	-81.031	1.67
101	MP4B	Z	0	1.67
102	MP4B	Mx	-.02	1.67
103	MP4B	X	-81.031	3.67
104	MP4B	Z	0	3.67
105	MP4B	Mx	-.02	3.67
106	MP4C	X	-81.031	1.67
107	MP4C	Z	0	1.67
108	MP4C	Mx	-.02	1.67
109	MP4C	X	-81.031	3.67
110	MP4C	Z	0	3.67
111	MP4C	Mx	-.02	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-32.316	4.5
2	MP2B	Z	-18.658	4.5
3	MP2B	Mx	0	4.5
4	MP2C	X	-15.43	4.5
5	MP2C	Z	-8.909	4.5
6	MP2C	Mx	.008	4.5
7	MP1A	X	-33.611	1.67
8	MP1A	Z	-19.406	1.67
9	MP1A	Mx	.017	1.67
10	MP1A	X	-33.611	3.67
11	MP1A	Z	-19.406	3.67
12	MP1A	Mx	.017	3.67
13	MP1B	X	-66.126	1.67
14	MP1B	Z	-38.178	1.67
15	MP1B	Mx	0	1.67
16	MP1B	X	-66.126	3.67
17	MP1B	Z	-38.178	3.67
18	MP1B	Mx	0	3.67
19	MP1C	X	-33.611	1.67
20	MP1C	Z	-19.406	1.67
21	MP1C	Mx	-.017	1.67
22	MP1C	X	-33.611	3.67
23	MP1C	Z	-19.406	3.67
24	MP1C	Mx	-.017	3.67
25	MP2A	X	-52.378	1.17
26	MP2A	Z	-30.241	1.17
27	MP2A	Mx	.006	1.17
28	MP2A	X	-52.378	4.17
29	MP2A	Z	-30.241	4.17
30	MP2A	Mx	.006	4.17
31	MP2B	X	-91.599	1.17
32	MP2B	Z	-52.885	1.17
33	MP2B	Mx	.071	1.17
34	MP2B	X	-91.599	4.17
35	MP2B	Z	-52.885	4.17
36	MP2B	Mx	.071	4.17
37	MP2C	X	-52.378	1.17
38	MP2C	Z	-30.241	1.17
39	MP2C	Mx	-.046	1.17
40	MP2C	X	-52.378	4.17
41	MP2C	Z	-30.241	4.17
42	MP2C	Mx	-.046	4.17
43	MP2A	X	-101.53	1.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP2A	Z	-58.619	1.17
45	MP2A	Mx	.09	1.17
46	MP2A	X	-101.53	4.17
47	MP2A	Z	-58.619	4.17
48	MP2A	Mx	.09	4.17
49	MP2B	X	-135.795	1.17
50	MP2B	Z	-78.402	1.17
51	MP2B	Mx	-.105	1.17
52	MP2B	X	-135.795	4.17
53	MP2B	Z	-78.402	4.17
54	MP2B	Mx	-.105	4.17
55	MP2C	X	-101.53	1.17
56	MP2C	Z	-58.619	1.17
57	MP2C	Mx	-.012	1.17
58	MP2C	X	-101.53	4.17
59	MP2C	Z	-58.619	4.17
60	MP2C	Mx	-.012	4.17
61	MP2A	X	-39.389	2.67
62	MP2A	Z	-22.741	2.67
63	MP2A	Mx	.02	2.67
64	MP2B	X	-52.294	2.67
65	MP2B	Z	-30.192	2.67
66	MP2B	Mx	0	2.67
67	MP2C	X	-39.389	2.67
68	MP2C	Z	-22.741	2.67
69	MP2C	Mx	-.02	2.67
70	MP3A	X	-36.859	2.67
71	MP3A	Z	-21.28	2.67
72	MP3A	Mx	.018	2.67
73	MP3B	X	-52.294	2.67
74	MP3B	Z	-30.192	2.67
75	MP3B	Mx	0	2.67
76	MP3C	X	-36.859	2.67
77	MP3C	Z	-21.28	2.67
78	MP3C	Mx	-.018	2.67
79	MP1A	X	-14.676	2.67
80	MP1A	Z	-8.473	2.67
81	MP1A	Mx	.007	2.67
82	MP1B	X	-24.291	2.67
83	MP1B	Z	-14.025	2.67
84	MP1B	Mx	0	2.67
85	MP1C	X	-14.676	2.67
86	MP1C	Z	-8.473	2.67
87	MP1C	Mx	-.007	2.67
88	MP3B	X	-106.949	2.5
89	MP3B	Z	-61.747	2.5
90	MP3B	Mx	0	2.5
91	OVP1	X	-100.539	1
92	OVP1	Z	-58.046	1
93	OVP1	Mx	0	1
94	MP4A	X	-51.635	1.67
95	MP4A	Z	-29.812	1.67
96	MP4A	Mx	.026	1.67
97	MP4A	X	-51.635	3.67
98	MP4A	Z	-29.812	3.67
99	MP4A	Mx	.026	3.67
100	MP4B	X	-79.444	1.67
101	MP4B	Z	-45.867	1.67
102	MP4B	Mx	0	1.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP4B	X	-79.444	3.67
104	MP4B	Z	-45.867	3.67
105	MP4B	Mx	0	3.67
106	MP4C	X	-51.635	1.67
107	MP4C	Z	-29.812	1.67
108	MP4C	Mx	-.026	1.67
109	MP4C	X	-51.635	3.67
110	MP4C	Z	-29.812	3.67
111	MP4C	Mx	-.026	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-15.408	4.5
2	MP2B	Z	-26.688	4.5
3	MP2B	Mx	-.008	4.5
4	MP2C	X	-5.659	4.5
5	MP2C	Z	-9.802	4.5
6	MP2C	Mx	.006	4.5
7	MP1A	X	-31.921	1.67
8	MP1A	Z	-55.288	1.67
9	MP1A	Mx	.016	1.67
10	MP1A	X	-31.921	3.67
11	MP1A	Z	-55.288	3.67
12	MP1A	Mx	.016	3.67
13	MP1B	X	-31.921	1.67
14	MP1B	Z	-55.288	1.67
15	MP1B	Mx	.016	1.67
16	MP1B	X	-31.921	3.67
17	MP1B	Z	-55.288	3.67
18	MP1B	Mx	.016	3.67
19	MP1C	X	-13.148	1.67
20	MP1C	Z	-22.773	1.67
21	MP1C	Mx	-.013	1.67
22	MP1C	X	-13.148	3.67
23	MP1C	Z	-22.773	3.67
24	MP1C	Mx	-.013	3.67
25	MP2A	X	-45.337	1.17
26	MP2A	Z	-78.525	1.17
27	MP2A	Mx	-.03	1.17
28	MP2A	X	-45.337	4.17
29	MP2A	Z	-78.525	4.17
30	MP2A	Mx	-.03	4.17
31	MP2B	X	-45.337	1.17
32	MP2B	Z	-78.525	1.17
33	MP2B	Mx	.075	1.17
34	MP2B	X	-45.337	4.17
35	MP2B	Z	-78.525	4.17
36	MP2B	Mx	.075	4.17
37	MP2C	X	-22.693	1.17
38	MP2C	Z	-39.305	1.17
39	MP2C	Mx	-.023	1.17
40	MP2C	X	-22.693	4.17
41	MP2C	Z	-39.305	4.17
42	MP2C	Mx	-.023	4.17
43	MP2A	X	-71.807	1.17
44	MP2A	Z	-124.374	1.17
45	MP2A	Mx	.119	1.17
46	MP2A	X	-71.807	4.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
47	MP2A	Z	-124.374	4.17
48	MP2A	Mx	.119	4.17
49	MP2B	X	-71.807	1.17
50	MP2B	Z	-124.374	1.17
51	MP2B	Mx	-.047	1.17
52	MP2B	X	-71.807	4.17
53	MP2B	Z	-124.374	4.17
54	MP2B	Mx	-.047	4.17
55	MP2C	X	-52.024	1.17
56	MP2C	Z	-90.109	1.17
57	MP2C	Mx	-.052	1.17
58	MP2C	X	-52.024	4.17
59	MP2C	Z	-90.109	4.17
60	MP2C	Mx	-.052	4.17
61	MP2A	X	-27.708	2.67
62	MP2A	Z	-47.992	2.67
63	MP2A	Mx	.014	2.67
64	MP2B	X	-27.708	2.67
65	MP2B	Z	-47.992	2.67
66	MP2B	Mx	.014	2.67
67	MP2C	X	-20.258	2.67
68	MP2C	Z	-35.088	2.67
69	MP2C	Mx	-.02	2.67
70	MP3A	X	-27.221	2.67
71	MP3A	Z	-47.149	2.67
72	MP3A	Mx	.014	2.67
73	MP3B	X	-27.221	2.67
74	MP3B	Z	-47.149	2.67
75	MP3B	Mx	.014	2.67
76	MP3C	X	-18.31	2.67
77	MP3C	Z	-31.714	2.67
78	MP3C	Mx	-.018	2.67
79	MP1A	X	-12.174	2.67
80	MP1A	Z	-21.086	2.67
81	MP1A	Mx	.006	2.67
82	MP1B	X	-12.174	2.67
83	MP1B	Z	-21.086	2.67
84	MP1B	Mx	.006	2.67
85	MP1C	X	-6.623	2.67
86	MP1C	Z	-11.471	2.67
87	MP1C	Mx	-.007	2.67
88	MP3B	X	-58.046	2.5
89	MP3B	Z	-100.539	2.5
90	MP3B	Mx	.029	2.5
91	OVP1	X	-61.747	1
92	OVP1	Z	-106.949	1
93	OVP1	Mx	0	1
94	MP4A	X	-40.515	1.67
95	MP4A	Z	-70.175	1.67
96	MP4A	Mx	.02	1.67
97	MP4A	X	-40.515	3.67
98	MP4A	Z	-70.175	3.67
99	MP4A	Mx	.02	3.67
100	MP4B	X	-40.515	1.67
101	MP4B	Z	-70.175	1.67
102	MP4B	Mx	.02	1.67
103	MP4B	X	-40.515	3.67
104	MP4B	Z	-70.175	3.67
105	MP4B	Mx	.02	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
106	MP4C	X	-24.46	1.67
107	MP4C	Z	-42.365	1.67
108	MP4C	Mx	-.024	1.67
109	MP4C	X	-24.46	3.67
110	MP4C	Z	-42.365	3.67
111	MP4C	Mx	-.024	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	0	4.5
2	MP2B	Z	-4.362	4.5
3	MP2B	Mx	-.002	4.5
4	MP2C	X	0	4.5
5	MP2C	Z	-4.362	4.5
6	MP2C	Mx	.002	4.5
7	MP1A	X	0	1.67
8	MP1A	Z	-17.878	1.67
9	MP1A	Mx	0	1.67
10	MP1A	X	0	3.67
11	MP1A	Z	-17.878	3.67
12	MP1A	Mx	0	3.67
13	MP1B	X	0	1.67
14	MP1B	Z	-10.163	1.67
15	MP1B	Mx	.004	1.67
16	MP1B	X	0	3.67
17	MP1B	Z	-10.163	3.67
18	MP1B	Mx	.004	3.67
19	MP1C	X	0	1.67
20	MP1C	Z	-10.163	1.67
21	MP1C	Mx	-.004	1.67
22	MP1C	X	0	3.67
23	MP1C	Z	-10.163	3.67
24	MP1C	Mx	-.004	3.67
25	MP2A	X	0	1.17
26	MP2A	Z	-30.032	1.17
27	MP2A	Mx	-.02	1.17
28	MP2A	X	0	4.17
29	MP2A	Z	-30.032	4.17
30	MP2A	Mx	-.02	4.17
31	MP2B	X	0	1.17
32	MP2B	Z	-23.017	1.17
33	MP2B	Mx	.018	1.17
34	MP2B	X	0	4.17
35	MP2B	Z	-23.017	4.17
36	MP2B	Mx	.018	4.17
37	MP2C	X	0	1.17
38	MP2C	Z	-23.017	1.17
39	MP2C	Mx	-.002	1.17
40	MP2C	X	0	4.17
41	MP2C	Z	-23.017	4.17
42	MP2C	Mx	-.002	4.17
43	MP2A	X	0	1.17
44	MP2A	Z	-30.032	1.17
45	MP2A	Mx	.02	1.17
46	MP2A	X	0	4.17
47	MP2A	Z	-30.032	4.17
48	MP2A	Mx	.02	4.17
49	MP2B	X	0	1.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
50	MP2B	Z	-23.017	1.17
51	MP2B	Mx	.002	1.17
52	MP2B	X	0	4.17
53	MP2B	Z	-23.017	4.17
54	MP2B	Mx	.002	4.17
55	MP2C	X	0	1.17
56	MP2C	Z	-23.017	1.17
57	MP2C	Mx	-.018	1.17
58	MP2C	X	0	4.17
59	MP2C	Z	-23.017	4.17
60	MP2C	Mx	-.018	4.17
61	MP2A	X	0	2.67
62	MP2A	Z	-15.037	2.67
63	MP2A	Mx	0	2.67
64	MP2B	X	0	2.67
65	MP2B	Z	-11.592	2.67
66	MP2B	Mx	.005	2.67
67	MP2C	X	0	2.67
68	MP2C	Z	-11.592	2.67
69	MP2C	Mx	-.005	2.67
70	MP3A	X	0	2.67
71	MP3A	Z	-15.037	2.67
72	MP3A	Mx	0	2.67
73	MP3B	X	0	2.67
74	MP3B	Z	-10.972	2.67
75	MP3B	Mx	.005	2.67
76	MP3C	X	0	2.67
77	MP3C	Z	-10.972	2.67
78	MP3C	Mx	-.005	2.67
79	MP1A	X	0	2.67
80	MP1A	Z	-8.544	2.67
81	MP1A	Mx	0	2.67
82	MP1B	X	0	2.67
83	MP1B	Z	-5.719	2.67
84	MP1B	Mx	.002	2.67
85	MP1C	X	0	2.67
86	MP1C	Z	-5.719	2.67
87	MP1C	Mx	-.002	2.67
88	MP3B	X	0	2.5
89	MP3B	Z	-25.882	2.5
90	MP3B	Mx	.011	2.5
91	OVP1	X	0	1
92	OVP1	Z	-29.266	1
93	OVP1	Mx	0	1
94	MP4A	X	0	1.67
95	MP4A	Z	-17.889	1.67
96	MP4A	Mx	0	1.67
97	MP4A	X	0	3.67
98	MP4A	Z	-17.889	3.67
99	MP4A	Mx	0	3.67
100	MP4B	X	0	1.67
101	MP4B	Z	-12.173	1.67
102	MP4B	Mx	.005	1.67
103	MP4B	X	0	3.67
104	MP4B	Z	-12.173	3.67
105	MP4B	Mx	.005	3.67
106	MP4C	X	0	1.67
107	MP4C	Z	-12.173	1.67
108	MP4C	Mx	-.005	1.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
109	MP4C	X	0	3.67
110	MP4C	Z	-12.173	3.67
111	MP4C	Mx	-.005	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	1.537	4.5
2	MP2B	Z	-2.663	4.5
3	MP2B	Mx	-.002	4.5
4	MP2C	X	3.469	4.5
5	MP2C	Z	-6.008	4.5
6	MP2C	Mx	.002	4.5
7	MP1A	X	7.653	1.67
8	MP1A	Z	-13.255	1.67
9	MP1A	Mx	-.004	1.67
10	MP1A	X	7.653	3.67
11	MP1A	Z	-13.255	3.67
12	MP1A	Mx	-.004	3.67
13	MP1B	X	3.796	1.67
14	MP1B	Z	-6.574	1.67
15	MP1B	Mx	.004	1.67
16	MP1B	X	3.796	3.67
17	MP1B	Z	-6.574	3.67
18	MP1B	Mx	.004	3.67
19	MP1C	X	7.653	1.67
20	MP1C	Z	-13.255	1.67
21	MP1C	Mx	-.004	1.67
22	MP1C	X	7.653	3.67
23	MP1C	Z	-13.255	3.67
24	MP1C	Mx	-.004	3.67
25	MP2A	X	13.847	1.17
26	MP2A	Z	-23.984	1.17
27	MP2A	Mx	-.023	1.17
28	MP2A	X	13.847	4.17
29	MP2A	Z	-23.984	4.17
30	MP2A	Mx	-.023	4.17
31	MP2B	X	10.339	1.17
32	MP2B	Z	-17.908	1.17
33	MP2B	Mx	.01	1.17
34	MP2B	X	10.339	4.17
35	MP2B	Z	-17.908	4.17
36	MP2B	Mx	.01	4.17
37	MP2C	X	13.847	1.17
38	MP2C	Z	-23.984	1.17
39	MP2C	Mx	.009	1.17
40	MP2C	X	13.847	4.17
41	MP2C	Z	-23.984	4.17
42	MP2C	Mx	.009	4.17
43	MP2A	X	13.847	1.17
44	MP2A	Z	-23.984	1.17
45	MP2A	Mx	.009	1.17
46	MP2A	X	13.847	4.17
47	MP2A	Z	-23.984	4.17
48	MP2A	Mx	.009	4.17
49	MP2B	X	10.339	1.17
50	MP2B	Z	-17.908	1.17
51	MP2B	Mx	.01	1.17
52	MP2B	X	10.339	4.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP2B	Z	-17.908	4.17
54	MP2B	Mx	.01	4.17
55	MP2C	X	13.847	1.17
56	MP2C	Z	-23.984	1.17
57	MP2C	Mx	-.023	1.17
58	MP2C	X	13.847	4.17
59	MP2C	Z	-23.984	4.17
60	MP2C	Mx	-.023	4.17
61	MP2A	X	6.944	2.67
62	MP2A	Z	-12.028	2.67
63	MP2A	Mx	-.003	2.67
64	MP2B	X	5.222	2.67
65	MP2B	Z	-9.045	2.67
66	MP2B	Mx	.005	2.67
67	MP2C	X	6.944	2.67
68	MP2C	Z	-12.028	2.67
69	MP2C	Mx	-.003	2.67
70	MP3A	X	6.841	2.67
71	MP3A	Z	-11.849	2.67
72	MP3A	Mx	-.003	2.67
73	MP3B	X	4.809	2.67
74	MP3B	Z	-8.329	2.67
75	MP3B	Mx	.005	2.67
76	MP3C	X	6.841	2.67
77	MP3C	Z	-11.849	2.67
78	MP3C	Mx	-.003	2.67
79	MP1A	X	3.801	2.67
80	MP1A	Z	-6.584	2.67
81	MP1A	Mx	-.002	2.67
82	MP1B	X	2.389	2.67
83	MP1B	Z	-4.137	2.67
84	MP1B	Mx	.002	2.67
85	MP1C	X	3.801	2.67
86	MP1C	Z	-6.584	2.67
87	MP1C	Mx	-.002	2.67
88	MP3B	X	12.095	2.5
89	MP3B	Z	-20.948	2.5
90	MP3B	Mx	.012	2.5
91	OVP1	X	12.941	1
92	OVP1	Z	-22.414	1
93	OVP1	Mx	0	1
94	MP4A	X	7.992	1.67
95	MP4A	Z	-13.842	1.67
96	MP4A	Mx	-.004	1.67
97	MP4A	X	7.992	3.67
98	MP4A	Z	-13.842	3.67
99	MP4A	Mx	-.004	3.67
100	MP4B	X	5.134	1.67
101	MP4B	Z	-8.892	1.67
102	MP4B	Mx	.005	1.67
103	MP4B	X	5.134	3.67
104	MP4B	Z	-8.892	3.67
105	MP4B	Mx	.005	3.67
106	MP4C	X	7.992	1.67
107	MP4C	Z	-13.842	1.67
108	MP4C	Mx	-.004	1.67
109	MP4C	X	7.992	3.67
110	MP4C	Z	-13.842	3.67
111	MP4C	Mx	-.004	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	3.778	4.5
2	MP2B	Z	-2.181	4.5
3	MP2B	Mx	-.002	4.5
4	MP2C	X	7.124	4.5
5	MP2C	Z	-4.113	4.5
6	MP2C	Mx	0	4.5
7	MP1A	X	8.801	1.67
8	MP1A	Z	-5.081	1.67
9	MP1A	Mx	-.004	1.67
10	MP1A	X	8.801	3.67
11	MP1A	Z	-5.081	3.67
12	MP1A	Mx	-.004	3.67
13	MP1B	X	8.801	1.67
14	MP1B	Z	-5.081	1.67
15	MP1B	Mx	.004	1.67
16	MP1B	X	8.801	3.67
17	MP1B	Z	-5.081	3.67
18	MP1B	Mx	.004	3.67
19	MP1C	X	15.482	1.67
20	MP1C	Z	-8.939	1.67
21	MP1C	Mx	0	1.67
22	MP1C	X	15.482	3.67
23	MP1C	Z	-8.939	3.67
24	MP1C	Mx	0	3.67
25	MP2A	X	19.934	1.17
26	MP2A	Z	-11.509	1.17
27	MP2A	Mx	-.018	1.17
28	MP2A	X	19.934	4.17
29	MP2A	Z	-11.509	4.17
30	MP2A	Mx	-.018	4.17
31	MP2B	X	19.934	1.17
32	MP2B	Z	-11.509	1.17
33	MP2B	Mx	.002	1.17
34	MP2B	X	19.934	4.17
35	MP2B	Z	-11.509	4.17
36	MP2B	Mx	.002	4.17
37	MP2C	X	26.009	1.17
38	MP2C	Z	-15.016	1.17
39	MP2C	Mx	.02	1.17
40	MP2C	X	26.009	4.17
41	MP2C	Z	-15.016	4.17
42	MP2C	Mx	.02	4.17
43	MP2A	X	19.934	1.17
44	MP2A	Z	-11.509	1.17
45	MP2A	Mx	-.002	1.17
46	MP2A	X	19.934	4.17
47	MP2A	Z	-11.509	4.17
48	MP2A	Mx	-.002	4.17
49	MP2B	X	19.934	1.17
50	MP2B	Z	-11.509	1.17
51	MP2B	Mx	.018	1.17
52	MP2B	X	19.934	4.17
53	MP2B	Z	-11.509	4.17
54	MP2B	Mx	.018	4.17
55	MP2C	X	26.009	1.17
56	MP2C	Z	-15.016	1.17
57	MP2C	Mx	-.02	1.17
58	MP2C	X	26.009	4.17
59	MP2C	Z	-15.016	4.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
60	MP2C	Mx	-.02	4.17
61	MP2A	X	10.039	2.67
62	MP2A	Z	-5.796	2.67
63	MP2A	Mx	-.005	2.67
64	MP2B	X	10.039	2.67
65	MP2B	Z	-5.796	2.67
66	MP2B	Mx	.005	2.67
67	MP2C	X	13.022	2.67
68	MP2C	Z	-7.518	2.67
69	MP2C	Mx	0	2.67
70	MP3A	X	9.502	2.67
71	MP3A	Z	-5.486	2.67
72	MP3A	Mx	-.005	2.67
73	MP3B	X	9.502	2.67
74	MP3B	Z	-5.486	2.67
75	MP3B	Mx	.005	2.67
76	MP3C	X	13.022	2.67
77	MP3C	Z	-7.518	2.67
78	MP3C	Mx	0	2.67
79	MP1A	X	4.953	2.67
80	MP1A	Z	-2.86	2.67
81	MP1A	Mx	-.002	2.67
82	MP1B	X	4.953	2.67
83	MP1B	Z	-2.86	2.67
84	MP1B	Mx	.002	2.67
85	MP1C	X	7.4	2.67
86	MP1C	Z	-4.272	2.67
87	MP1C	Mx	0	2.67
88	MP3B	X	22.414	2.5
89	MP3B	Z	-12.941	2.5
90	MP3B	Mx	.011	2.5
91	OVP1	X	20.948	1
92	OVP1	Z	-12.095	1
93	OVP1	Mx	0	1
94	MP4A	X	10.542	1.67
95	MP4A	Z	-6.086	1.67
96	MP4A	Mx	-.005	1.67
97	MP4A	X	10.542	3.67
98	MP4A	Z	-6.086	3.67
99	MP4A	Mx	-.005	3.67
100	MP4B	X	10.542	1.67
101	MP4B	Z	-6.086	1.67
102	MP4B	Mx	.005	1.67
103	MP4B	X	10.542	3.67
104	MP4B	Z	-6.086	3.67
105	MP4B	Mx	.005	3.67
106	MP4C	X	15.492	1.67
107	MP4C	Z	-8.944	1.67
108	MP4C	Mx	0	1.67
109	MP4C	X	15.492	3.67
110	MP4C	Z	-8.944	3.67
111	MP4C	Mx	0	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	6.938	4.5
2	MP2B	Z	0	4.5
3	MP2B	Mx	-.002	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP2C	X	6.938	4.5
5	MP2C	Z	0	4.5
6	MP2C	Mx	-.002	4.5
7	MP1A	X	7.591	1.67
8	MP1A	Z	0	1.67
9	MP1A	Mx	-.004	1.67
10	MP1A	X	7.591	3.67
11	MP1A	Z	0	3.67
12	MP1A	Mx	-.004	3.67
13	MP1B	X	15.306	1.67
14	MP1B	Z	0	1.67
15	MP1B	Mx	.004	1.67
16	MP1B	X	15.306	3.67
17	MP1B	Z	0	3.67
18	MP1B	Mx	.004	3.67
19	MP1C	X	15.306	1.67
20	MP1C	Z	0	1.67
21	MP1C	Mx	.004	1.67
22	MP1C	X	15.306	3.67
23	MP1C	Z	0	3.67
24	MP1C	Mx	.004	3.67
25	MP2A	X	20.679	1.17
26	MP2A	Z	0	1.17
27	MP2A	Mx	-.01	1.17
28	MP2A	X	20.679	4.17
29	MP2A	Z	0	4.17
30	MP2A	Mx	-.01	4.17
31	MP2B	X	27.694	1.17
32	MP2B	Z	0	1.17
33	MP2B	Mx	-.009	1.17
34	MP2B	X	27.694	4.17
35	MP2B	Z	0	4.17
36	MP2B	Mx	-.009	4.17
37	MP2C	X	27.694	1.17
38	MP2C	Z	0	1.17
39	MP2C	Mx	.023	1.17
40	MP2C	X	27.694	4.17
41	MP2C	Z	0	4.17
42	MP2C	Mx	.023	4.17
43	MP2A	X	20.679	1.17
44	MP2A	Z	0	1.17
45	MP2A	Mx	-.01	1.17
46	MP2A	X	20.679	4.17
47	MP2A	Z	0	4.17
48	MP2A	Mx	-.01	4.17
49	MP2B	X	27.694	1.17
50	MP2B	Z	0	1.17
51	MP2B	Mx	.023	1.17
52	MP2B	X	27.694	4.17
53	MP2B	Z	0	4.17
54	MP2B	Mx	.023	4.17
55	MP2C	X	27.694	1.17
56	MP2C	Z	0	1.17
57	MP2C	Mx	-.009	1.17
58	MP2C	X	27.694	4.17
59	MP2C	Z	0	4.17
60	MP2C	Mx	-.009	4.17
61	MP2A	X	10.444	2.67
62	MP2A	Z	0	2.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP2A	Mx	-.005	2.67
64	MP2B	X	13.888	2.67
65	MP2B	Z	0	2.67
66	MP2B	Mx	.003	2.67
67	MP2C	X	13.888	2.67
68	MP2C	Z	0	2.67
69	MP2C	Mx	.003	2.67
70	MP3A	X	9.617	2.67
71	MP3A	Z	0	2.67
72	MP3A	Mx	-.005	2.67
73	MP3B	X	13.682	2.67
74	MP3B	Z	0	2.67
75	MP3B	Mx	.003	2.67
76	MP3C	X	13.682	2.67
77	MP3C	Z	0	2.67
78	MP3C	Mx	.003	2.67
79	MP1A	X	4.778	2.67
80	MP1A	Z	0	2.67
81	MP1A	Mx	-.002	2.67
82	MP1B	X	7.603	2.67
83	MP1B	Z	0	2.67
84	MP1B	Mx	.002	2.67
85	MP1C	X	7.603	2.67
86	MP1C	Z	0	2.67
87	MP1C	Mx	.002	2.67
88	MP3B	X	29.266	2.5
89	MP3B	Z	0	2.5
90	MP3B	Mx	.007	2.5
91	OVP1	X	25.882	1
92	OVP1	Z	0	1
93	OVP1	Mx	0	1
94	MP4A	X	10.268	1.67
95	MP4A	Z	0	1.67
96	MP4A	Mx	-.005	1.67
97	MP4A	X	10.268	3.67
98	MP4A	Z	0	3.67
99	MP4A	Mx	-.005	3.67
100	MP4B	X	15.984	1.67
101	MP4B	Z	0	1.67
102	MP4B	Mx	.004	1.67
103	MP4B	X	15.984	3.67
104	MP4B	Z	0	3.67
105	MP4B	Mx	.004	3.67
106	MP4C	X	15.984	1.67
107	MP4C	Z	0	1.67
108	MP4C	Mx	.004	1.67
109	MP4C	X	15.984	3.67
110	MP4C	Z	0	3.67
111	MP4C	Mx	.004	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	7.124	4.5
2	MP2B	Z	4.113	4.5
3	MP2B	Mx	0	4.5
4	MP2C	X	3.778	4.5
5	MP2C	Z	2.181	4.5
6	MP2C	Mx	-.002	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
7	MP1A	X	8.801	1.67
8	MP1A	Z	5.081	1.67
9	MP1A	Mx	-.004	1.67
10	MP1A	X	8.801	3.67
11	MP1A	Z	5.081	3.67
12	MP1A	Mx	-.004	3.67
13	MP1B	X	15.482	1.67
14	MP1B	Z	8.939	1.67
15	MP1B	Mx	0	1.67
16	MP1B	X	15.482	3.67
17	MP1B	Z	8.939	3.67
18	MP1B	Mx	0	3.67
19	MP1C	X	8.801	1.67
20	MP1C	Z	5.081	1.67
21	MP1C	Mx	.004	1.67
22	MP1C	X	8.801	3.67
23	MP1C	Z	5.081	3.67
24	MP1C	Mx	.004	3.67
25	MP2A	X	19.934	1.17
26	MP2A	Z	11.509	1.17
27	MP2A	Mx	-.002	1.17
28	MP2A	X	19.934	4.17
29	MP2A	Z	11.509	4.17
30	MP2A	Mx	-.002	4.17
31	MP2B	X	26.009	1.17
32	MP2B	Z	15.016	1.17
33	MP2B	Mx	-.02	1.17
34	MP2B	X	26.009	4.17
35	MP2B	Z	15.016	4.17
36	MP2B	Mx	-.02	4.17
37	MP2C	X	19.934	1.17
38	MP2C	Z	11.509	1.17
39	MP2C	Mx	.018	1.17
40	MP2C	X	19.934	4.17
41	MP2C	Z	11.509	4.17
42	MP2C	Mx	.018	4.17
43	MP2A	X	19.934	1.17
44	MP2A	Z	11.509	1.17
45	MP2A	Mx	-.018	1.17
46	MP2A	X	19.934	4.17
47	MP2A	Z	11.509	4.17
48	MP2A	Mx	-.018	4.17
49	MP2B	X	26.009	1.17
50	MP2B	Z	15.016	1.17
51	MP2B	Mx	.02	1.17
52	MP2B	X	26.009	4.17
53	MP2B	Z	15.016	4.17
54	MP2B	Mx	.02	4.17
55	MP2C	X	19.934	1.17
56	MP2C	Z	11.509	1.17
57	MP2C	Mx	.002	1.17
58	MP2C	X	19.934	4.17
59	MP2C	Z	11.509	4.17
60	MP2C	Mx	.002	4.17
61	MP2A	X	10.039	2.67
62	MP2A	Z	5.796	2.67
63	MP2A	Mx	-.005	2.67
64	MP2B	X	13.022	2.67
65	MP2B	Z	7.518	2.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
66	MP2B	Mx	0	2.67
67	MP2C	X	10.039	2.67
68	MP2C	Z	5.796	2.67
69	MP2C	Mx	.005	2.67
70	MP3A	X	9.502	2.67
71	MP3A	Z	5.486	2.67
72	MP3A	Mx	-.005	2.67
73	MP3B	X	13.022	2.67
74	MP3B	Z	7.518	2.67
75	MP3B	Mx	0	2.67
76	MP3C	X	9.502	2.67
77	MP3C	Z	5.486	2.67
78	MP3C	Mx	.005	2.67
79	MP1A	X	4.953	2.67
80	MP1A	Z	2.86	2.67
81	MP1A	Mx	-.002	2.67
82	MP1B	X	7.4	2.67
83	MP1B	Z	4.272	2.67
84	MP1B	Mx	0	2.67
85	MP1C	X	4.953	2.67
86	MP1C	Z	2.86	2.67
87	MP1C	Mx	.002	2.67
88	MP3B	X	26.811	2.5
89	MP3B	Z	15.479	2.5
90	MP3B	Mx	0	2.5
91	OVP1	X	25.345	1
92	OVP1	Z	14.633	1
93	OVP1	Mx	0	1
94	MP4A	X	10.542	1.67
95	MP4A	Z	6.086	1.67
96	MP4A	Mx	-.005	1.67
97	MP4A	X	10.542	3.67
98	MP4A	Z	6.086	3.67
99	MP4A	Mx	-.005	3.67
100	MP4B	X	15.492	1.67
101	MP4B	Z	8.944	1.67
102	MP4B	Mx	0	1.67
103	MP4B	X	15.492	3.67
104	MP4B	Z	8.944	3.67
105	MP4B	Mx	0	3.67
106	MP4C	X	10.542	1.67
107	MP4C	Z	6.086	1.67
108	MP4C	Mx	.005	1.67
109	MP4C	X	10.542	3.67
110	MP4C	Z	6.086	3.67
111	MP4C	Mx	.005	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	3.469	4.5
2	MP2B	Z	6.008	4.5
3	MP2B	Mx	.002	4.5
4	MP2C	X	1.537	4.5
5	MP2C	Z	2.663	4.5
6	MP2C	Mx	-.002	4.5
7	MP1A	X	7.653	1.67
8	MP1A	Z	13.255	1.67
9	MP1A	Mx	-.004	1.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
10	MP1A	X	7.653	3.67
11	MP1A	Z	13.255	3.67
12	MP1A	Mx	-.004	3.67
13	MP1B	X	7.653	1.67
14	MP1B	Z	13.255	1.67
15	MP1B	Mx	-.004	1.67
16	MP1B	X	7.653	3.67
17	MP1B	Z	13.255	3.67
18	MP1B	Mx	-.004	3.67
19	MP1C	X	3.796	1.67
20	MP1C	Z	6.574	1.67
21	MP1C	Mx	.004	1.67
22	MP1C	X	3.796	3.67
23	MP1C	Z	6.574	3.67
24	MP1C	Mx	.004	3.67
25	MP2A	X	13.847	1.17
26	MP2A	Z	23.984	1.17
27	MP2A	Mx	.009	1.17
28	MP2A	X	13.847	4.17
29	MP2A	Z	23.984	4.17
30	MP2A	Mx	.009	4.17
31	MP2B	X	13.847	1.17
32	MP2B	Z	23.984	1.17
33	MP2B	Mx	-.023	1.17
34	MP2B	X	13.847	4.17
35	MP2B	Z	23.984	4.17
36	MP2B	Mx	-.023	4.17
37	MP2C	X	10.339	1.17
38	MP2C	Z	17.908	1.17
39	MP2C	Mx	.01	1.17
40	MP2C	X	10.339	4.17
41	MP2C	Z	17.908	4.17
42	MP2C	Mx	.01	4.17
43	MP2A	X	13.847	1.17
44	MP2A	Z	23.984	1.17
45	MP2A	Mx	-.023	1.17
46	MP2A	X	13.847	4.17
47	MP2A	Z	23.984	4.17
48	MP2A	Mx	-.023	4.17
49	MP2B	X	13.847	1.17
50	MP2B	Z	23.984	1.17
51	MP2B	Mx	.009	1.17
52	MP2B	X	13.847	4.17
53	MP2B	Z	23.984	4.17
54	MP2B	Mx	.009	4.17
55	MP2C	X	10.339	1.17
56	MP2C	Z	17.908	1.17
57	MP2C	Mx	.01	1.17
58	MP2C	X	10.339	4.17
59	MP2C	Z	17.908	4.17
60	MP2C	Mx	.01	4.17
61	MP2A	X	6.944	2.67
62	MP2A	Z	12.028	2.67
63	MP2A	Mx	-.003	2.67
64	MP2B	X	6.944	2.67
65	MP2B	Z	12.028	2.67
66	MP2B	Mx	-.003	2.67
67	MP2C	X	5.222	2.67
68	MP2C	Z	9.045	2.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
69	MP2C	Mx	.005	2.67
70	MP3A	X	6.841	2.67
71	MP3A	Z	11.849	2.67
72	MP3A	Mx	-.003	2.67
73	MP3B	X	6.841	2.67
74	MP3B	Z	11.849	2.67
75	MP3B	Mx	-.003	2.67
76	MP3C	X	4.809	2.67
77	MP3C	Z	8.329	2.67
78	MP3C	Mx	.005	2.67
79	MP1A	X	3.801	2.67
80	MP1A	Z	6.584	2.67
81	MP1A	Mx	-.002	2.67
82	MP1B	X	3.801	2.67
83	MP1B	Z	6.584	2.67
84	MP1B	Mx	-.002	2.67
85	MP1C	X	2.389	2.67
86	MP1C	Z	4.137	2.67
87	MP1C	Mx	.002	2.67
88	MP3B	X	14.633	2.5
89	MP3B	Z	25.345	2.5
90	MP3B	Mx	-.007	2.5
91	OVP1	X	15.479	1
92	OVP1	Z	26.811	1
93	OVP1	Mx	0	1
94	MP4A	X	7.992	1.67
95	MP4A	Z	13.842	1.67
96	MP4A	Mx	-.004	1.67
97	MP4A	X	7.992	3.67
98	MP4A	Z	13.842	3.67
99	MP4A	Mx	-.004	3.67
100	MP4B	X	7.992	1.67
101	MP4B	Z	13.842	1.67
102	MP4B	Mx	-.004	1.67
103	MP4B	X	7.992	3.67
104	MP4B	Z	13.842	3.67
105	MP4B	Mx	-.004	3.67
106	MP4C	X	5.134	1.67
107	MP4C	Z	8.892	1.67
108	MP4C	Mx	.005	1.67
109	MP4C	X	5.134	3.67
110	MP4C	Z	8.892	3.67
111	MP4C	Mx	.005	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	0	4.5
2	MP2B	Z	4.362	4.5
3	MP2B	Mx	.002	4.5
4	MP2C	X	0	4.5
5	MP2C	Z	4.362	4.5
6	MP2C	Mx	-.002	4.5
7	MP1A	X	0	1.67
8	MP1A	Z	17.878	1.67
9	MP1A	Mx	0	1.67
10	MP1A	X	0	3.67
11	MP1A	Z	17.878	3.67
12	MP1A	Mx	0	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP1B	X	0	1.67
14	MP1B	Z	10.163	1.67
15	MP1B	Mx	-.004	1.67
16	MP1B	X	0	3.67
17	MP1B	Z	10.163	3.67
18	MP1B	Mx	-.004	3.67
19	MP1C	X	0	1.67
20	MP1C	Z	10.163	1.67
21	MP1C	Mx	.004	1.67
22	MP1C	X	0	3.67
23	MP1C	Z	10.163	3.67
24	MP1C	Mx	.004	3.67
25	MP2A	X	0	1.17
26	MP2A	Z	30.032	1.17
27	MP2A	Mx	.02	1.17
28	MP2A	X	0	4.17
29	MP2A	Z	30.032	4.17
30	MP2A	Mx	.02	4.17
31	MP2B	X	0	1.17
32	MP2B	Z	23.017	1.17
33	MP2B	Mx	-.018	1.17
34	MP2B	X	0	4.17
35	MP2B	Z	23.017	4.17
36	MP2B	Mx	-.018	4.17
37	MP2C	X	0	1.17
38	MP2C	Z	23.017	1.17
39	MP2C	Mx	.002	1.17
40	MP2C	X	0	4.17
41	MP2C	Z	23.017	4.17
42	MP2C	Mx	.002	4.17
43	MP2A	X	0	1.17
44	MP2A	Z	30.032	1.17
45	MP2A	Mx	-.02	1.17
46	MP2A	X	0	4.17
47	MP2A	Z	30.032	4.17
48	MP2A	Mx	-.02	4.17
49	MP2B	X	0	1.17
50	MP2B	Z	23.017	1.17
51	MP2B	Mx	-.002	1.17
52	MP2B	X	0	4.17
53	MP2B	Z	23.017	4.17
54	MP2B	Mx	-.002	4.17
55	MP2C	X	0	1.17
56	MP2C	Z	23.017	1.17
57	MP2C	Mx	.018	1.17
58	MP2C	X	0	4.17
59	MP2C	Z	23.017	4.17
60	MP2C	Mx	.018	4.17
61	MP2A	X	0	2.67
62	MP2A	Z	15.037	2.67
63	MP2A	Mx	0	2.67
64	MP2B	X	0	2.67
65	MP2B	Z	11.592	2.67
66	MP2B	Mx	-.005	2.67
67	MP2C	X	0	2.67
68	MP2C	Z	11.592	2.67
69	MP2C	Mx	.005	2.67
70	MP3A	X	0	2.67
71	MP3A	Z	15.037	2.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
72	MP3A	Mx	0	2.67
73	MP3B	X	0	2.67
74	MP3B	Z	10.972	2.67
75	MP3B	Mx	-.005	2.67
76	MP3C	X	0	2.67
77	MP3C	Z	10.972	2.67
78	MP3C	Mx	.005	2.67
79	MP1A	X	0	2.67
80	MP1A	Z	8.544	2.67
81	MP1A	Mx	0	2.67
82	MP1B	X	0	2.67
83	MP1B	Z	5.719	2.67
84	MP1B	Mx	-.002	2.67
85	MP1C	X	0	2.67
86	MP1C	Z	5.719	2.67
87	MP1C	Mx	.002	2.67
88	MP3B	X	0	2.5
89	MP3B	Z	25.882	2.5
90	MP3B	Mx	-.011	2.5
91	OVP1	X	0	1
92	OVP1	Z	29.266	1
93	OVP1	Mx	0	1
94	MP4A	X	0	1.67
95	MP4A	Z	17.889	1.67
96	MP4A	Mx	0	1.67
97	MP4A	X	0	3.67
98	MP4A	Z	17.889	3.67
99	MP4A	Mx	0	3.67
100	MP4B	X	0	1.67
101	MP4B	Z	12.173	1.67
102	MP4B	Mx	-.005	1.67
103	MP4B	X	0	3.67
104	MP4B	Z	12.173	3.67
105	MP4B	Mx	-.005	3.67
106	MP4C	X	0	1.67
107	MP4C	Z	12.173	1.67
108	MP4C	Mx	.005	1.67
109	MP4C	X	0	3.67
110	MP4C	Z	12.173	3.67
111	MP4C	Mx	.005	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-1.537	4.5
2	MP2B	Z	2.663	4.5
3	MP2B	Mx	.002	4.5
4	MP2C	X	-3.469	4.5
5	MP2C	Z	6.008	4.5
6	MP2C	Mx	-.002	4.5
7	MP1A	X	-7.653	1.67
8	MP1A	Z	13.255	1.67
9	MP1A	Mx	.004	1.67
10	MP1A	X	-7.653	3.67
11	MP1A	Z	13.255	3.67
12	MP1A	Mx	.004	3.67
13	MP1B	X	-3.796	1.67
14	MP1B	Z	6.574	1.67
15	MP1B	Mx	-.004	1.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP1B	X	-3.796	3.67
17	MP1B	Z	6.574	3.67
18	MP1B	Mx	-.004	3.67
19	MP1C	X	-7.653	1.67
20	MP1C	Z	13.255	1.67
21	MP1C	Mx	.004	1.67
22	MP1C	X	-7.653	3.67
23	MP1C	Z	13.255	3.67
24	MP1C	Mx	.004	3.67
25	MP2A	X	-13.847	1.17
26	MP2A	Z	23.984	1.17
27	MP2A	Mx	.023	1.17
28	MP2A	X	-13.847	4.17
29	MP2A	Z	23.984	4.17
30	MP2A	Mx	.023	4.17
31	MP2B	X	-10.339	1.17
32	MP2B	Z	17.908	1.17
33	MP2B	Mx	-.01	1.17
34	MP2B	X	-10.339	4.17
35	MP2B	Z	17.908	4.17
36	MP2B	Mx	-.01	4.17
37	MP2C	X	-13.847	1.17
38	MP2C	Z	23.984	1.17
39	MP2C	Mx	-.009	1.17
40	MP2C	X	-13.847	4.17
41	MP2C	Z	23.984	4.17
42	MP2C	Mx	-.009	4.17
43	MP2A	X	-13.847	1.17
44	MP2A	Z	23.984	1.17
45	MP2A	Mx	-.009	1.17
46	MP2A	X	-13.847	4.17
47	MP2A	Z	23.984	4.17
48	MP2A	Mx	-.009	4.17
49	MP2B	X	-10.339	1.17
50	MP2B	Z	17.908	1.17
51	MP2B	Mx	-.01	1.17
52	MP2B	X	-10.339	4.17
53	MP2B	Z	17.908	4.17
54	MP2B	Mx	-.01	4.17
55	MP2C	X	-13.847	1.17
56	MP2C	Z	23.984	1.17
57	MP2C	Mx	.023	1.17
58	MP2C	X	-13.847	4.17
59	MP2C	Z	23.984	4.17
60	MP2C	Mx	.023	4.17
61	MP2A	X	-6.944	2.67
62	MP2A	Z	12.028	2.67
63	MP2A	Mx	.003	2.67
64	MP2B	X	-5.222	2.67
65	MP2B	Z	9.045	2.67
66	MP2B	Mx	-.005	2.67
67	MP2C	X	-6.944	2.67
68	MP2C	Z	12.028	2.67
69	MP2C	Mx	.003	2.67
70	MP3A	X	-6.841	2.67
71	MP3A	Z	11.849	2.67
72	MP3A	Mx	.003	2.67
73	MP3B	X	-4.809	2.67
74	MP3B	Z	8.329	2.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
75	MP3B	Mx	-.005	2.67
76	MP3C	X	-6.841	2.67
77	MP3C	Z	11.849	2.67
78	MP3C	Mx	.003	2.67
79	MP1A	X	-3.801	2.67
80	MP1A	Z	6.584	2.67
81	MP1A	Mx	.002	2.67
82	MP1B	X	-2.389	2.67
83	MP1B	Z	4.137	2.67
84	MP1B	Mx	-.002	2.67
85	MP1C	X	-3.801	2.67
86	MP1C	Z	6.584	2.67
87	MP1C	Mx	.002	2.67
88	MP3B	X	-12.095	2.5
89	MP3B	Z	20.948	2.5
90	MP3B	Mx	-.012	2.5
91	OVP1	X	-12.941	1
92	OVP1	Z	22.414	1
93	OVP1	Mx	0	1
94	MP4A	X	-7.992	1.67
95	MP4A	Z	13.842	1.67
96	MP4A	Mx	.004	1.67
97	MP4A	X	-7.992	3.67
98	MP4A	Z	13.842	3.67
99	MP4A	Mx	.004	3.67
100	MP4B	X	-5.134	1.67
101	MP4B	Z	8.892	1.67
102	MP4B	Mx	-.005	1.67
103	MP4B	X	-5.134	3.67
104	MP4B	Z	8.892	3.67
105	MP4B	Mx	-.005	3.67
106	MP4C	X	-7.992	1.67
107	MP4C	Z	13.842	1.67
108	MP4C	Mx	.004	1.67
109	MP4C	X	-7.992	3.67
110	MP4C	Z	13.842	3.67
111	MP4C	Mx	.004	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-3.778	4.5
2	MP2B	Z	2.181	4.5
3	MP2B	Mx	.002	4.5
4	MP2C	X	-7.124	4.5
5	MP2C	Z	4.113	4.5
6	MP2C	Mx	0	4.5
7	MP1A	X	-8.801	1.67
8	MP1A	Z	5.081	1.67
9	MP1A	Mx	.004	1.67
10	MP1A	X	-8.801	3.67
11	MP1A	Z	5.081	3.67
12	MP1A	Mx	.004	3.67
13	MP1B	X	-8.801	1.67
14	MP1B	Z	5.081	1.67
15	MP1B	Mx	-.004	1.67
16	MP1B	X	-8.801	3.67
17	MP1B	Z	5.081	3.67
18	MP1B	Mx	-.004	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
19	MP1C	X	-15.482	1.67
20	MP1C	Z	8.939	1.67
21	MP1C	Mx	0	1.67
22	MP1C	X	-15.482	3.67
23	MP1C	Z	8.939	3.67
24	MP1C	Mx	0	3.67
25	MP2A	X	-19.934	1.17
26	MP2A	Z	11.509	1.17
27	MP2A	Mx	.018	1.17
28	MP2A	X	-19.934	4.17
29	MP2A	Z	11.509	4.17
30	MP2A	Mx	.018	4.17
31	MP2B	X	-19.934	1.17
32	MP2B	Z	11.509	1.17
33	MP2B	Mx	-.002	1.17
34	MP2B	X	-19.934	4.17
35	MP2B	Z	11.509	4.17
36	MP2B	Mx	-.002	4.17
37	MP2C	X	-26.009	1.17
38	MP2C	Z	15.016	1.17
39	MP2C	Mx	-.02	1.17
40	MP2C	X	-26.009	4.17
41	MP2C	Z	15.016	4.17
42	MP2C	Mx	-.02	4.17
43	MP2A	X	-19.934	1.17
44	MP2A	Z	11.509	1.17
45	MP2A	Mx	.002	1.17
46	MP2A	X	-19.934	4.17
47	MP2A	Z	11.509	4.17
48	MP2A	Mx	.002	4.17
49	MP2B	X	-19.934	1.17
50	MP2B	Z	11.509	1.17
51	MP2B	Mx	-.018	1.17
52	MP2B	X	-19.934	4.17
53	MP2B	Z	11.509	4.17
54	MP2B	Mx	-.018	4.17
55	MP2C	X	-26.009	1.17
56	MP2C	Z	15.016	1.17
57	MP2C	Mx	.02	1.17
58	MP2C	X	-26.009	4.17
59	MP2C	Z	15.016	4.17
60	MP2C	Mx	.02	4.17
61	MP2A	X	-10.039	2.67
62	MP2A	Z	5.796	2.67
63	MP2A	Mx	.005	2.67
64	MP2B	X	-10.039	2.67
65	MP2B	Z	5.796	2.67
66	MP2B	Mx	-.005	2.67
67	MP2C	X	-13.022	2.67
68	MP2C	Z	7.518	2.67
69	MP2C	Mx	0	2.67
70	MP3A	X	-9.502	2.67
71	MP3A	Z	5.486	2.67
72	MP3A	Mx	.005	2.67
73	MP3B	X	-9.502	2.67
74	MP3B	Z	5.486	2.67
75	MP3B	Mx	-.005	2.67
76	MP3C	X	-13.022	2.67
77	MP3C	Z	7.518	2.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
78	MP3C	Mx	0	2.67
79	MP1A	X	-4.953	2.67
80	MP1A	Z	2.86	2.67
81	MP1A	Mx	.002	2.67
82	MP1B	X	-4.953	2.67
83	MP1B	Z	2.86	2.67
84	MP1B	Mx	-.002	2.67
85	MP1C	X	-7.4	2.67
86	MP1C	Z	4.272	2.67
87	MP1C	Mx	0	2.67
88	MP3B	X	-22.414	2.5
89	MP3B	Z	12.941	2.5
90	MP3B	Mx	-.011	2.5
91	OVP1	X	-20.948	1
92	OVP1	Z	12.095	1
93	OVP1	Mx	0	1
94	MP4A	X	-10.542	1.67
95	MP4A	Z	6.086	1.67
96	MP4A	Mx	.005	1.67
97	MP4A	X	-10.542	3.67
98	MP4A	Z	6.086	3.67
99	MP4A	Mx	.005	3.67
100	MP4B	X	-10.542	1.67
101	MP4B	Z	6.086	1.67
102	MP4B	Mx	-.005	1.67
103	MP4B	X	-10.542	3.67
104	MP4B	Z	6.086	3.67
105	MP4B	Mx	-.005	3.67
106	MP4C	X	-15.492	1.67
107	MP4C	Z	8.944	1.67
108	MP4C	Mx	0	1.67
109	MP4C	X	-15.492	3.67
110	MP4C	Z	8.944	3.67
111	MP4C	Mx	0	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-6.938	4.5
2	MP2B	Z	0	4.5
3	MP2B	Mx	.002	4.5
4	MP2C	X	-6.938	4.5
5	MP2C	Z	0	4.5
6	MP2C	Mx	.002	4.5
7	MP1A	X	-7.591	1.67
8	MP1A	Z	0	1.67
9	MP1A	Mx	.004	1.67
10	MP1A	X	-7.591	3.67
11	MP1A	Z	0	3.67
12	MP1A	Mx	.004	3.67
13	MP1B	X	-15.306	1.67
14	MP1B	Z	0	1.67
15	MP1B	Mx	-.004	1.67
16	MP1B	X	-15.306	3.67
17	MP1B	Z	0	3.67
18	MP1B	Mx	-.004	3.67
19	MP1C	X	-15.306	1.67
20	MP1C	Z	0	1.67
21	MP1C	Mx	-.004	1.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP1C	X	-15.306	3.67
23	MP1C	Z	0	3.67
24	MP1C	Mx	-.004	3.67
25	MP2A	X	-20.679	1.17
26	MP2A	Z	0	1.17
27	MP2A	Mx	.01	1.17
28	MP2A	X	-20.679	4.17
29	MP2A	Z	0	4.17
30	MP2A	Mx	.01	4.17
31	MP2B	X	-27.694	1.17
32	MP2B	Z	0	1.17
33	MP2B	Mx	.009	1.17
34	MP2B	X	-27.694	4.17
35	MP2B	Z	0	4.17
36	MP2B	Mx	.009	4.17
37	MP2C	X	-27.694	1.17
38	MP2C	Z	0	1.17
39	MP2C	Mx	-.023	1.17
40	MP2C	X	-27.694	4.17
41	MP2C	Z	0	4.17
42	MP2C	Mx	-.023	4.17
43	MP2A	X	-20.679	1.17
44	MP2A	Z	0	1.17
45	MP2A	Mx	.01	1.17
46	MP2A	X	-20.679	4.17
47	MP2A	Z	0	4.17
48	MP2A	Mx	.01	4.17
49	MP2B	X	-27.694	1.17
50	MP2B	Z	0	1.17
51	MP2B	Mx	-.023	1.17
52	MP2B	X	-27.694	4.17
53	MP2B	Z	0	4.17
54	MP2B	Mx	-.023	4.17
55	MP2C	X	-27.694	1.17
56	MP2C	Z	0	1.17
57	MP2C	Mx	.009	1.17
58	MP2C	X	-27.694	4.17
59	MP2C	Z	0	4.17
60	MP2C	Mx	.009	4.17
61	MP2A	X	-10.444	2.67
62	MP2A	Z	0	2.67
63	MP2A	Mx	.005	2.67
64	MP2B	X	-13.888	2.67
65	MP2B	Z	0	2.67
66	MP2B	Mx	-.003	2.67
67	MP2C	X	-13.888	2.67
68	MP2C	Z	0	2.67
69	MP2C	Mx	-.003	2.67
70	MP3A	X	-9.617	2.67
71	MP3A	Z	0	2.67
72	MP3A	Mx	.005	2.67
73	MP3B	X	-13.682	2.67
74	MP3B	Z	0	2.67
75	MP3B	Mx	-.003	2.67
76	MP3C	X	-13.682	2.67
77	MP3C	Z	0	2.67
78	MP3C	Mx	-.003	2.67
79	MP1A	X	-4.778	2.67
80	MP1A	Z	0	2.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
81	MP1A	Mx	.002	2.67
82	MP1B	X	-7.603	2.67
83	MP1B	Z	0	2.67
84	MP1B	Mx	-.002	2.67
85	MP1C	X	-7.603	2.67
86	MP1C	Z	0	2.67
87	MP1C	Mx	-.002	2.67
88	MP3B	X	-29.266	2.5
89	MP3B	Z	0	2.5
90	MP3B	Mx	-.007	2.5
91	OVP1	X	-25.882	1
92	OVP1	Z	0	1
93	OVP1	Mx	0	1
94	MP4A	X	-10.268	1.67
95	MP4A	Z	0	1.67
96	MP4A	Mx	.005	1.67
97	MP4A	X	-10.268	3.67
98	MP4A	Z	0	3.67
99	MP4A	Mx	.005	3.67
100	MP4B	X	-15.984	1.67
101	MP4B	Z	0	1.67
102	MP4B	Mx	-.004	1.67
103	MP4B	X	-15.984	3.67
104	MP4B	Z	0	3.67
105	MP4B	Mx	-.004	3.67
106	MP4C	X	-15.984	1.67
107	MP4C	Z	0	1.67
108	MP4C	Mx	-.004	1.67
109	MP4C	X	-15.984	3.67
110	MP4C	Z	0	3.67
111	MP4C	Mx	-.004	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-7.124	4.5
2	MP2B	Z	-4.113	4.5
3	MP2B	Mx	0	4.5
4	MP2C	X	-3.778	4.5
5	MP2C	Z	-2.181	4.5
6	MP2C	Mx	.002	4.5
7	MP1A	X	-8.801	1.67
8	MP1A	Z	-5.081	1.67
9	MP1A	Mx	.004	1.67
10	MP1A	X	-8.801	3.67
11	MP1A	Z	-5.081	3.67
12	MP1A	Mx	.004	3.67
13	MP1B	X	-15.482	1.67
14	MP1B	Z	-8.939	1.67
15	MP1B	Mx	0	1.67
16	MP1B	X	-15.482	3.67
17	MP1B	Z	-8.939	3.67
18	MP1B	Mx	0	3.67
19	MP1C	X	-8.801	1.67
20	MP1C	Z	-5.081	1.67
21	MP1C	Mx	-.004	1.67
22	MP1C	X	-8.801	3.67
23	MP1C	Z	-5.081	3.67
24	MP1C	Mx	-.004	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP2A	X	-19.934	1.17
26	MP2A	Z	-11.509	1.17
27	MP2A	Mx	.002	1.17
28	MP2A	X	-19.934	4.17
29	MP2A	Z	-11.509	4.17
30	MP2A	Mx	.002	4.17
31	MP2B	X	-26.009	1.17
32	MP2B	Z	-15.016	1.17
33	MP2B	Mx	.02	1.17
34	MP2B	X	-26.009	4.17
35	MP2B	Z	-15.016	4.17
36	MP2B	Mx	.02	4.17
37	MP2C	X	-19.934	1.17
38	MP2C	Z	-11.509	1.17
39	MP2C	Mx	-.018	1.17
40	MP2C	X	-19.934	4.17
41	MP2C	Z	-11.509	4.17
42	MP2C	Mx	-.018	4.17
43	MP2A	X	-19.934	1.17
44	MP2A	Z	-11.509	1.17
45	MP2A	Mx	.018	1.17
46	MP2A	X	-19.934	4.17
47	MP2A	Z	-11.509	4.17
48	MP2A	Mx	.018	4.17
49	MP2B	X	-26.009	1.17
50	MP2B	Z	-15.016	1.17
51	MP2B	Mx	-.02	1.17
52	MP2B	X	-26.009	4.17
53	MP2B	Z	-15.016	4.17
54	MP2B	Mx	-.02	4.17
55	MP2C	X	-19.934	1.17
56	MP2C	Z	-11.509	1.17
57	MP2C	Mx	-.002	1.17
58	MP2C	X	-19.934	4.17
59	MP2C	Z	-11.509	4.17
60	MP2C	Mx	-.002	4.17
61	MP2A	X	-10.039	2.67
62	MP2A	Z	-5.796	2.67
63	MP2A	Mx	.005	2.67
64	MP2B	X	-13.022	2.67
65	MP2B	Z	-7.518	2.67
66	MP2B	Mx	0	2.67
67	MP2C	X	-10.039	2.67
68	MP2C	Z	-5.796	2.67
69	MP2C	Mx	-.005	2.67
70	MP3A	X	-9.502	2.67
71	MP3A	Z	-5.486	2.67
72	MP3A	Mx	.005	2.67
73	MP3B	X	-13.022	2.67
74	MP3B	Z	-7.518	2.67
75	MP3B	Mx	0	2.67
76	MP3C	X	-9.502	2.67
77	MP3C	Z	-5.486	2.67
78	MP3C	Mx	-.005	2.67
79	MP1A	X	-4.953	2.67
80	MP1A	Z	-2.86	2.67
81	MP1A	Mx	.002	2.67
82	MP1B	X	-7.4	2.67
83	MP1B	Z	-4.272	2.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
84	MP1B	Mx	0	2.67
85	MP1C	X	-4.953	2.67
86	MP1C	Z	-2.86	2.67
87	MP1C	Mx	-.002	2.67
88	MP3B	X	-26.811	2.5
89	MP3B	Z	-15.479	2.5
90	MP3B	Mx	0	2.5
91	OVP1	X	-25.345	1
92	OVP1	Z	-14.633	1
93	OVP1	Mx	0	1
94	MP4A	X	-10.542	1.67
95	MP4A	Z	-6.086	1.67
96	MP4A	Mx	.005	1.67
97	MP4A	X	-10.542	3.67
98	MP4A	Z	-6.086	3.67
99	MP4A	Mx	.005	3.67
100	MP4B	X	-15.492	1.67
101	MP4B	Z	-8.944	1.67
102	MP4B	Mx	0	1.67
103	MP4B	X	-15.492	3.67
104	MP4B	Z	-8.944	3.67
105	MP4B	Mx	0	3.67
106	MP4C	X	-10.542	1.67
107	MP4C	Z	-6.086	1.67
108	MP4C	Mx	-.005	1.67
109	MP4C	X	-10.542	3.67
110	MP4C	Z	-6.086	3.67
111	MP4C	Mx	-.005	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-3.469	4.5
2	MP2B	Z	-6.008	4.5
3	MP2B	Mx	-.002	4.5
4	MP2C	X	-1.537	4.5
5	MP2C	Z	-2.663	4.5
6	MP2C	Mx	.002	4.5
7	MP1A	X	-7.653	1.67
8	MP1A	Z	-13.255	1.67
9	MP1A	Mx	.004	1.67
10	MP1A	X	-7.653	3.67
11	MP1A	Z	-13.255	3.67
12	MP1A	Mx	.004	3.67
13	MP1B	X	-7.653	1.67
14	MP1B	Z	-13.255	1.67
15	MP1B	Mx	.004	1.67
16	MP1B	X	-7.653	3.67
17	MP1B	Z	-13.255	3.67
18	MP1B	Mx	.004	3.67
19	MP1C	X	-3.796	1.67
20	MP1C	Z	-6.574	1.67
21	MP1C	Mx	-.004	1.67
22	MP1C	X	-3.796	3.67
23	MP1C	Z	-6.574	3.67
24	MP1C	Mx	-.004	3.67
25	MP2A	X	-13.847	1.17
26	MP2A	Z	-23.984	1.17
27	MP2A	Mx	-.009	1.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
28	MP2A	X	-13.847	4.17
29	MP2A	Z	-23.984	4.17
30	MP2A	Mx	-.009	4.17
31	MP2B	X	-13.847	1.17
32	MP2B	Z	-23.984	1.17
33	MP2B	Mx	.023	1.17
34	MP2B	X	-13.847	4.17
35	MP2B	Z	-23.984	4.17
36	MP2B	Mx	.023	4.17
37	MP2C	X	-10.339	1.17
38	MP2C	Z	-17.908	1.17
39	MP2C	Mx	-.01	1.17
40	MP2C	X	-10.339	4.17
41	MP2C	Z	-17.908	4.17
42	MP2C	Mx	-.01	4.17
43	MP2A	X	-13.847	1.17
44	MP2A	Z	-23.984	1.17
45	MP2A	Mx	.023	1.17
46	MP2A	X	-13.847	4.17
47	MP2A	Z	-23.984	4.17
48	MP2A	Mx	.023	4.17
49	MP2B	X	-13.847	1.17
50	MP2B	Z	-23.984	1.17
51	MP2B	Mx	-.009	1.17
52	MP2B	X	-13.847	4.17
53	MP2B	Z	-23.984	4.17
54	MP2B	Mx	-.009	4.17
55	MP2C	X	-10.339	1.17
56	MP2C	Z	-17.908	1.17
57	MP2C	Mx	-.01	1.17
58	MP2C	X	-10.339	4.17
59	MP2C	Z	-17.908	4.17
60	MP2C	Mx	-.01	4.17
61	MP2A	X	-6.944	2.67
62	MP2A	Z	-12.028	2.67
63	MP2A	Mx	.003	2.67
64	MP2B	X	-6.944	2.67
65	MP2B	Z	-12.028	2.67
66	MP2B	Mx	.003	2.67
67	MP2C	X	-5.222	2.67
68	MP2C	Z	-9.045	2.67
69	MP2C	Mx	-.005	2.67
70	MP3A	X	-6.841	2.67
71	MP3A	Z	-11.849	2.67
72	MP3A	Mx	.003	2.67
73	MP3B	X	-6.841	2.67
74	MP3B	Z	-11.849	2.67
75	MP3B	Mx	.003	2.67
76	MP3C	X	-4.809	2.67
77	MP3C	Z	-8.329	2.67
78	MP3C	Mx	-.005	2.67
79	MP1A	X	-3.801	2.67
80	MP1A	Z	-6.584	2.67
81	MP1A	Mx	.002	2.67
82	MP1B	X	-3.801	2.67
83	MP1B	Z	-6.584	2.67
84	MP1B	Mx	.002	2.67
85	MP1C	X	-2.389	2.67
86	MP1C	Z	-4.137	2.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
87	MP1C	Mx	-.002	2.67
88	MP3B	X	-14.633	2.5
89	MP3B	Z	-25.345	2.5
90	MP3B	Mx	.007	2.5
91	OVP1	X	-15.479	1
92	OVP1	Z	-26.811	1
93	OVP1	Mx	0	1
94	MP4A	X	-7.992	1.67
95	MP4A	Z	-13.842	1.67
96	MP4A	Mx	.004	1.67
97	MP4A	X	-7.992	3.67
98	MP4A	Z	-13.842	3.67
99	MP4A	Mx	.004	3.67
100	MP4B	X	-7.992	1.67
101	MP4B	Z	-13.842	1.67
102	MP4B	Mx	.004	1.67
103	MP4B	X	-7.992	3.67
104	MP4B	Z	-13.842	3.67
105	MP4B	Mx	.004	3.67
106	MP4C	X	-5.134	1.67
107	MP4C	Z	-8.892	1.67
108	MP4C	Mx	-.005	1.67
109	MP4C	X	-5.134	3.67
110	MP4C	Z	-8.892	3.67
111	MP4C	Mx	-.005	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	0	4.5
2	MP2B	Z	-1.114	4.5
3	MP2B	Mx	-.000482	4.5
4	MP2C	X	0	4.5
5	MP2C	Z	-1.114	4.5
6	MP2C	Mx	.000482	4.5
7	MP1A	X	0	1.67
8	MP1A	Z	-4.772	1.67
9	MP1A	Mx	0	1.67
10	MP1A	X	0	3.67
11	MP1A	Z	-4.772	3.67
12	MP1A	Mx	0	3.67
13	MP1B	X	0	1.67
14	MP1B	Z	-2.426	1.67
15	MP1B	Mx	.001	1.67
16	MP1B	X	0	3.67
17	MP1B	Z	-2.426	3.67
18	MP1B	Mx	.001	3.67
19	MP1C	X	0	1.67
20	MP1C	Z	-2.426	1.67
21	MP1C	Mx	-.001	1.67
22	MP1C	X	0	3.67
23	MP1C	Z	-2.426	3.67
24	MP1C	Mx	-.001	3.67
25	MP2A	X	0	1.17
26	MP2A	Z	-6.611	1.17
27	MP2A	Mx	-.004	1.17
28	MP2A	X	0	4.17
29	MP2A	Z	-6.611	4.17
30	MP2A	Mx	-.004	4.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP2B	X	0	1.17
32	MP2B	Z	-3.78	1.17
33	MP2B	Mx	.003	1.17
34	MP2B	X	0	4.17
35	MP2B	Z	-3.78	4.17
36	MP2B	Mx	.003	4.17
37	MP2C	X	0	1.17
38	MP2C	Z	-3.78	1.17
39	MP2C	Mx	-.000377	1.17
40	MP2C	X	0	4.17
41	MP2C	Z	-3.78	4.17
42	MP2C	Mx	-.000377	4.17
43	MP2A	X	0	1.17
44	MP2A	Z	-9.8	1.17
45	MP2A	Mx	.007	1.17
46	MP2A	X	0	4.17
47	MP2A	Z	-9.8	4.17
48	MP2A	Mx	.007	4.17
49	MP2B	X	0	1.17
50	MP2B	Z	-7.327	1.17
51	MP2B	Mx	.00073	1.17
52	MP2B	X	0	4.17
53	MP2B	Z	-7.327	4.17
54	MP2B	Mx	.00073	4.17
55	MP2C	X	0	1.17
56	MP2C	Z	-7.327	1.17
57	MP2C	Mx	-.006	1.17
58	MP2C	X	0	4.17
59	MP2C	Z	-7.327	4.17
60	MP2C	Mx	-.006	4.17
61	MP2A	X	0	2.67
62	MP2A	Z	-3.774	2.67
63	MP2A	Mx	0	2.67
64	MP2B	X	0	2.67
65	MP2B	Z	-2.843	2.67
66	MP2B	Mx	.001	2.67
67	MP2C	X	0	2.67
68	MP2C	Z	-2.843	2.67
69	MP2C	Mx	-.001	2.67
70	MP3A	X	0	2.67
71	MP3A	Z	-3.774	2.67
72	MP3A	Mx	0	2.67
73	MP3B	X	0	2.67
74	MP3B	Z	-2.66	2.67
75	MP3B	Mx	.001	2.67
76	MP3C	X	0	2.67
77	MP3C	Z	-2.66	2.67
78	MP3C	Mx	-.001	2.67
79	MP1A	X	0	2.67
80	MP1A	Z	-1.753	2.67
81	MP1A	Mx	0	2.67
82	MP1B	X	0	2.67
83	MP1B	Z	-1.059	2.67
84	MP1B	Mx	.000459	2.67
85	MP1C	X	0	2.67
86	MP1C	Z	-1.059	2.67
87	MP1C	Mx	-.000459	2.67
88	MP3B	X	0	2.5
89	MP3B	Z	-6.331	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
90	MP3B	Mx	.003	2.5
91	OVP1	X	0	1
92	OVP1	Z	-7.256	1
93	OVP1	Mx	0	1
94	MP4A	X	0	1.67
95	MP4A	Z	-5.733	1.67
96	MP4A	Mx	0	1.67
97	MP4A	X	0	3.67
98	MP4A	Z	-5.733	3.67
99	MP4A	Mx	0	3.67
100	MP4B	X	0	1.67
101	MP4B	Z	-3.726	1.67
102	MP4B	Mx	.002	1.67
103	MP4B	X	0	3.67
104	MP4B	Z	-3.726	3.67
105	MP4B	Mx	.002	3.67
106	MP4C	X	0	1.67
107	MP4C	Z	-3.726	1.67
108	MP4C	Mx	-.002	1.67
109	MP4C	X	0	3.67
110	MP4C	Z	-3.726	3.67
111	MP4C	Mx	-.002	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	.354	4.5
2	MP2B	Z	-.613	4.5
3	MP2B	Mx	-.000354	4.5
4	MP2C	X	.963	4.5
5	MP2C	Z	-1.668	4.5
6	MP2C	Mx	.000482	4.5
7	MP1A	X	1.995	1.67
8	MP1A	Z	-3.456	1.67
9	MP1A	Mx	-.000998	1.67
10	MP1A	X	1.995	3.67
11	MP1A	Z	-3.456	3.67
12	MP1A	Mx	-.000998	3.67
13	MP1B	X	.822	1.67
14	MP1B	Z	-1.423	1.67
15	MP1B	Mx	.000822	1.67
16	MP1B	X	.822	3.67
17	MP1B	Z	-1.423	3.67
18	MP1B	Mx	.000822	3.67
19	MP1C	X	1.995	1.67
20	MP1C	Z	-3.456	1.67
21	MP1C	Mx	-.000998	1.67
22	MP1C	X	1.995	3.67
23	MP1C	Z	-3.456	3.67
24	MP1C	Mx	-.000998	3.67
25	MP2A	X	2.834	1.17
26	MP2A	Z	-4.908	1.17
27	MP2A	Mx	-.005	1.17
28	MP2A	X	2.834	4.17
29	MP2A	Z	-4.908	4.17
30	MP2A	Mx	-.005	4.17
31	MP2B	X	1.418	1.17
32	MP2B	Z	-2.457	1.17
33	MP2B	Mx	.001	1.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
34	MP2B	X	1.418	4.17
35	MP2B	Z	-2.457	4.17
36	MP2B	Mx	.001	4.17
37	MP2C	X	2.834	1.17
38	MP2C	Z	-4.908	1.17
39	MP2C	Mx	.002	1.17
40	MP2C	X	2.834	4.17
41	MP2C	Z	-4.908	4.17
42	MP2C	Mx	.002	4.17
43	MP2A	X	4.488	1.17
44	MP2A	Z	-7.773	1.17
45	MP2A	Mx	.003	1.17
46	MP2A	X	4.488	4.17
47	MP2A	Z	-7.773	4.17
48	MP2A	Mx	.003	4.17
49	MP2B	X	3.252	1.17
50	MP2B	Z	-5.632	1.17
51	MP2B	Mx	.003	1.17
52	MP2B	X	3.252	4.17
53	MP2B	Z	-5.632	4.17
54	MP2B	Mx	.003	4.17
55	MP2C	X	4.488	1.17
56	MP2C	Z	-7.773	1.17
57	MP2C	Mx	-.007	1.17
58	MP2C	X	4.488	4.17
59	MP2C	Z	-7.773	4.17
60	MP2C	Mx	-.007	4.17
61	MP2A	X	1.732	2.67
62	MP2A	Z	-3	2.67
63	MP2A	Mx	-.000866	2.67
64	MP2B	X	1.266	2.67
65	MP2B	Z	-2.193	2.67
66	MP2B	Mx	.001	2.67
67	MP2C	X	1.732	2.67
68	MP2C	Z	-3	2.67
69	MP2C	Mx	-.000866	2.67
70	MP3A	X	1.701	2.67
71	MP3A	Z	-2.947	2.67
72	MP3A	Mx	-.00085	2.67
73	MP3B	X	1.144	2.67
74	MP3B	Z	-1.982	2.67
75	MP3B	Mx	.001	2.67
76	MP3C	X	1.701	2.67
77	MP3C	Z	-2.947	2.67
78	MP3C	Mx	-.000851	2.67
79	MP1A	X	.761	2.67
80	MP1A	Z	-1.318	2.67
81	MP1A	Mx	-.00038	2.67
82	MP1B	X	.414	2.67
83	MP1B	Z	-.717	2.67
84	MP1B	Mx	.000414	2.67
85	MP1C	X	.761	2.67
86	MP1C	Z	-1.318	2.67
87	MP1C	Mx	-.00038	2.67
88	MP3B	X	2.934	2.5
89	MP3B	Z	-5.082	2.5
90	MP3B	Mx	.003	2.5
91	OVP1	X	3.165	1
92	OVP1	Z	-5.482	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
93	OVP1	Mx	0	1
94	MP4A	X	2.532	1.67
95	MP4A	Z	-4.386	1.67
96	MP4A	Mx	-.001	1.67
97	MP4A	X	2.532	3.67
98	MP4A	Z	-4.386	3.67
99	MP4A	Mx	-.001	3.67
100	MP4B	X	1.529	1.67
101	MP4B	Z	-2.648	1.67
102	MP4B	Mx	.002	1.67
103	MP4B	X	1.529	3.67
104	MP4B	Z	-2.648	3.67
105	MP4B	Mx	.002	3.67
106	MP4C	X	2.532	1.67
107	MP4C	Z	-4.386	1.67
108	MP4C	Mx	-.001	1.67
109	MP4C	X	2.532	3.67
110	MP4C	Z	-4.386	3.67
111	MP4C	Mx	-.001	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	.964	4.5
2	MP2B	Z	-.557	4.5
3	MP2B	Mx	-.000482	4.5
4	MP2C	X	2.02	4.5
5	MP2C	Z	-1.166	4.5
6	MP2C	Mx	0	4.5
7	MP1A	X	2.101	1.67
8	MP1A	Z	-1.213	1.67
9	MP1A	Mx	-.001	1.67
10	MP1A	X	2.101	3.67
11	MP1A	Z	-1.213	3.67
12	MP1A	Mx	-.001	3.67
13	MP1B	X	2.101	1.67
14	MP1B	Z	-1.213	1.67
15	MP1B	Mx	.001	1.67
16	MP1B	X	2.101	3.67
17	MP1B	Z	-1.213	3.67
18	MP1B	Mx	.001	3.67
19	MP1C	X	4.133	1.67
20	MP1C	Z	-2.386	1.67
21	MP1C	Mx	0	1.67
22	MP1C	X	4.133	3.67
23	MP1C	Z	-2.386	3.67
24	MP1C	Mx	0	3.67
25	MP2A	X	3.274	1.17
26	MP2A	Z	-1.89	1.17
27	MP2A	Mx	-.003	1.17
28	MP2A	X	3.274	4.17
29	MP2A	Z	-1.89	4.17
30	MP2A	Mx	-.003	4.17
31	MP2B	X	3.274	1.17
32	MP2B	Z	-1.89	1.17
33	MP2B	Mx	.000377	1.17
34	MP2B	X	3.274	4.17
35	MP2B	Z	-1.89	4.17
36	MP2B	Mx	.000377	4.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
37	MP2C	X	5.725	1.17
38	MP2C	Z	-3.305	1.17
39	MP2C	Mx	.004	1.17
40	MP2C	X	5.725	4.17
41	MP2C	Z	-3.305	4.17
42	MP2C	Mx	.004	4.17
43	MP2A	X	6.346	1.17
44	MP2A	Z	-3.664	1.17
45	MP2A	Mx	-.00073	1.17
46	MP2A	X	6.346	4.17
47	MP2A	Z	-3.664	4.17
48	MP2A	Mx	-.00073	4.17
49	MP2B	X	6.346	1.17
50	MP2B	Z	-3.664	1.17
51	MP2B	Mx	.006	1.17
52	MP2B	X	6.346	4.17
53	MP2B	Z	-3.664	4.17
54	MP2B	Mx	.006	4.17
55	MP2C	X	8.487	1.17
56	MP2C	Z	-4.9	1.17
57	MP2C	Mx	-.007	1.17
58	MP2C	X	8.487	4.17
59	MP2C	Z	-4.9	4.17
60	MP2C	Mx	-.007	4.17
61	MP2A	X	2.462	2.67
62	MP2A	Z	-1.421	2.67
63	MP2A	Mx	-.001	2.67
64	MP2B	X	2.462	2.67
65	MP2B	Z	-1.421	2.67
66	MP2B	Mx	.001	2.67
67	MP2C	X	3.268	2.67
68	MP2C	Z	-1.887	2.67
69	MP2C	Mx	0	2.67
70	MP3A	X	2.304	2.67
71	MP3A	Z	-1.33	2.67
72	MP3A	Mx	-.001	2.67
73	MP3B	X	2.304	2.67
74	MP3B	Z	-1.33	2.67
75	MP3B	Mx	.001	2.67
76	MP3C	X	3.268	2.67
77	MP3C	Z	-1.887	2.67
78	MP3C	Mx	0	2.67
79	MP1A	X	.917	2.67
80	MP1A	Z	-.53	2.67
81	MP1A	Mx	-.000459	2.67
82	MP1B	X	.917	2.67
83	MP1B	Z	-.53	2.67
84	MP1B	Mx	.000459	2.67
85	MP1C	X	1.518	2.67
86	MP1C	Z	-.877	2.67
87	MP1C	Mx	0	2.67
88	MP3B	X	5.482	2.5
89	MP3B	Z	-3.165	2.5
90	MP3B	Mx	.003	2.5
91	OVP1	X	5.082	1
92	OVP1	Z	-2.934	1
93	OVP1	Mx	0	1
94	MP4A	X	3.227	1.67
95	MP4A	Z	-1.863	1.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
96	MP4A	Mx	-.002	1.67
97	MP4A	X	3.227	3.67
98	MP4A	Z	-1.863	3.67
99	MP4A	Mx	-.002	3.67
100	MP4B	X	3.227	1.67
101	MP4B	Z	-1.863	1.67
102	MP4B	Mx	.002	1.67
103	MP4B	X	3.227	3.67
104	MP4B	Z	-1.863	3.67
105	MP4B	Mx	.002	3.67
106	MP4C	X	4.965	1.67
107	MP4C	Z	-2.867	1.67
108	MP4C	Mx	0	1.67
109	MP4C	X	4.965	3.67
110	MP4C	Z	-2.867	3.67
111	MP4C	Mx	0	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	1.926	4.5
2	MP2B	Z	0	4.5
3	MP2B	Mx	-.000481	4.5
4	MP2C	X	1.926	4.5
5	MP2C	Z	0	4.5
6	MP2C	Mx	-.000481	4.5
7	MP1A	X	1.644	1.67
8	MP1A	Z	0	1.67
9	MP1A	Mx	-.000822	1.67
10	MP1A	X	1.644	3.67
11	MP1A	Z	0	3.67
12	MP1A	Mx	-.000822	3.67
13	MP1B	X	3.99	1.67
14	MP1B	Z	0	1.67
15	MP1B	Mx	.000998	1.67
16	MP1B	X	3.99	3.67
17	MP1B	Z	0	3.67
18	MP1B	Mx	.000998	3.67
19	MP1C	X	3.99	1.67
20	MP1C	Z	0	1.67
21	MP1C	Mx	.000998	1.67
22	MP1C	X	3.99	3.67
23	MP1C	Z	0	3.67
24	MP1C	Mx	.000998	3.67
25	MP2A	X	2.837	1.17
26	MP2A	Z	0	1.17
27	MP2A	Mx	-.001	1.17
28	MP2A	X	2.837	4.17
29	MP2A	Z	0	4.17
30	MP2A	Mx	-.001	4.17
31	MP2B	X	5.667	1.17
32	MP2B	Z	0	1.17
33	MP2B	Mx	-.002	1.17
34	MP2B	X	5.667	4.17
35	MP2B	Z	0	4.17
36	MP2B	Mx	-.002	4.17
37	MP2C	X	5.667	1.17
38	MP2C	Z	0	1.17
39	MP2C	Mx	.005	1.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
40	MP2C	X	5.667	4.17
41	MP2C	Z	0	4.17
42	MP2C	Mx	.005	4.17
43	MP2A	X	6.503	1.17
44	MP2A	Z	0	1.17
45	MP2A	Mx	-.003	1.17
46	MP2A	X	6.503	4.17
47	MP2A	Z	0	4.17
48	MP2A	Mx	-.003	4.17
49	MP2B	X	8.976	1.17
50	MP2B	Z	0	1.17
51	MP2B	Mx	.007	1.17
52	MP2B	X	8.976	4.17
53	MP2B	Z	0	4.17
54	MP2B	Mx	.007	4.17
55	MP2C	X	8.976	1.17
56	MP2C	Z	0	1.17
57	MP2C	Mx	-.003	1.17
58	MP2C	X	8.976	4.17
59	MP2C	Z	0	4.17
60	MP2C	Mx	-.003	4.17
61	MP2A	X	2.532	2.67
62	MP2A	Z	0	2.67
63	MP2A	Mx	-.001	2.67
64	MP2B	X	3.464	2.67
65	MP2B	Z	0	2.67
66	MP2B	Mx	.000866	2.67
67	MP2C	X	3.464	2.67
68	MP2C	Z	0	2.67
69	MP2C	Mx	.000866	2.67
70	MP3A	X	2.289	2.67
71	MP3A	Z	0	2.67
72	MP3A	Mx	-.001	2.67
73	MP3B	X	3.403	2.67
74	MP3B	Z	0	2.67
75	MP3B	Mx	.000851	2.67
76	MP3C	X	3.403	2.67
77	MP3C	Z	0	2.67
78	MP3C	Mx	.000851	2.67
79	MP1A	X	.828	2.67
80	MP1A	Z	0	2.67
81	MP1A	Mx	-.000414	2.67
82	MP1B	X	1.522	2.67
83	MP1B	Z	0	2.67
84	MP1B	Mx	.00038	2.67
85	MP1C	X	1.522	2.67
86	MP1C	Z	0	2.67
87	MP1C	Mx	.00038	2.67
88	MP3B	X	7.256	2.5
89	MP3B	Z	0	2.5
90	MP3B	Mx	.002	2.5
91	OVP1	X	6.331	1
92	OVP1	Z	0	1
93	OVP1	Mx	0	1
94	MP4A	X	3.057	1.67
95	MP4A	Z	0	1.67
96	MP4A	Mx	-.002	1.67
97	MP4A	X	3.057	3.67
98	MP4A	Z	0	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
99	MP4A	Mx	-.002	3.67
100	MP4B	X	5.064	1.67
101	MP4B	Z	0	1.67
102	MP4B	Mx	.001	1.67
103	MP4B	X	5.064	3.67
104	MP4B	Z	0	3.67
105	MP4B	Mx	.001	3.67
106	MP4C	X	5.064	1.67
107	MP4C	Z	0	1.67
108	MP4C	Mx	.001	1.67
109	MP4C	X	5.064	3.67
110	MP4C	Z	0	3.67
111	MP4C	Mx	.001	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	2.02	4.5
2	MP2B	Z	1.166	4.5
3	MP2B	Mx	0	4.5
4	MP2C	X	.964	4.5
5	MP2C	Z	.557	4.5
6	MP2C	Mx	-.000482	4.5
7	MP1A	X	2.101	1.67
8	MP1A	Z	1.213	1.67
9	MP1A	Mx	-.001	1.67
10	MP1A	X	2.101	3.67
11	MP1A	Z	1.213	3.67
12	MP1A	Mx	-.001	3.67
13	MP1B	X	4.133	1.67
14	MP1B	Z	2.386	1.67
15	MP1B	Mx	0	1.67
16	MP1B	X	4.133	3.67
17	MP1B	Z	2.386	3.67
18	MP1B	Mx	0	3.67
19	MP1C	X	2.101	1.67
20	MP1C	Z	1.213	1.67
21	MP1C	Mx	.001	1.67
22	MP1C	X	2.101	3.67
23	MP1C	Z	1.213	3.67
24	MP1C	Mx	.001	3.67
25	MP2A	X	3.274	1.17
26	MP2A	Z	1.89	1.17
27	MP2A	Mx	-.000377	1.17
28	MP2A	X	3.274	4.17
29	MP2A	Z	1.89	4.17
30	MP2A	Mx	-.000377	4.17
31	MP2B	X	5.725	1.17
32	MP2B	Z	3.305	1.17
33	MP2B	Mx	-.004	1.17
34	MP2B	X	5.725	4.17
35	MP2B	Z	3.305	4.17
36	MP2B	Mx	-.004	4.17
37	MP2C	X	3.274	1.17
38	MP2C	Z	1.89	1.17
39	MP2C	Mx	.003	1.17
40	MP2C	X	3.274	4.17
41	MP2C	Z	1.89	4.17
42	MP2C	Mx	.003	4.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
43	MP2A	X	6.346	1.17
44	MP2A	Z	3.664	1.17
45	MP2A	Mx	-.006	1.17
46	MP2A	X	6.346	4.17
47	MP2A	Z	3.664	4.17
48	MP2A	Mx	-.006	4.17
49	MP2B	X	8.487	1.17
50	MP2B	Z	4.9	1.17
51	MP2B	Mx	.007	1.17
52	MP2B	X	8.487	4.17
53	MP2B	Z	4.9	4.17
54	MP2B	Mx	.007	4.17
55	MP2C	X	6.346	1.17
56	MP2C	Z	3.664	1.17
57	MP2C	Mx	.000731	1.17
58	MP2C	X	6.346	4.17
59	MP2C	Z	3.664	4.17
60	MP2C	Mx	.000731	4.17
61	MP2A	X	2.462	2.67
62	MP2A	Z	1.421	2.67
63	MP2A	Mx	-.001	2.67
64	MP2B	X	3.268	2.67
65	MP2B	Z	1.887	2.67
66	MP2B	Mx	0	2.67
67	MP2C	X	2.462	2.67
68	MP2C	Z	1.421	2.67
69	MP2C	Mx	.001	2.67
70	MP3A	X	2.304	2.67
71	MP3A	Z	1.33	2.67
72	MP3A	Mx	-.001	2.67
73	MP3B	X	3.268	2.67
74	MP3B	Z	1.887	2.67
75	MP3B	Mx	0	2.67
76	MP3C	X	2.304	2.67
77	MP3C	Z	1.33	2.67
78	MP3C	Mx	.001	2.67
79	MP1A	X	.917	2.67
80	MP1A	Z	.53	2.67
81	MP1A	Mx	-.000459	2.67
82	MP1B	X	1.518	2.67
83	MP1B	Z	.877	2.67
84	MP1B	Mx	0	2.67
85	MP1C	X	.917	2.67
86	MP1C	Z	.53	2.67
87	MP1C	Mx	.000459	2.67
88	MP3B	X	6.684	2.5
89	MP3B	Z	3.859	2.5
90	MP3B	Mx	0	2.5
91	OVP1	X	6.284	1
92	OVP1	Z	3.628	1
93	OVP1	Mx	0	1
94	MP4A	X	3.227	1.67
95	MP4A	Z	1.863	1.67
96	MP4A	Mx	-.002	1.67
97	MP4A	X	3.227	3.67
98	MP4A	Z	1.863	3.67
99	MP4A	Mx	-.002	3.67
100	MP4B	X	4.965	1.67
101	MP4B	Z	2.867	1.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
102	MP4B	Mx	0	1.67
103	MP4B	X	4.965	3.67
104	MP4B	Z	2.867	3.67
105	MP4B	Mx	0	3.67
106	MP4C	X	3.227	1.67
107	MP4C	Z	1.863	1.67
108	MP4C	Mx	.002	1.67
109	MP4C	X	3.227	3.67
110	MP4C	Z	1.863	3.67
111	MP4C	Mx	.002	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	.963	4.5
2	MP2B	Z	1.668	4.5
3	MP2B	Mx	.000482	4.5
4	MP2C	X	.354	4.5
5	MP2C	Z	.613	4.5
6	MP2C	Mx	-.000354	4.5
7	MP1A	X	1.995	1.67
8	MP1A	Z	3.456	1.67
9	MP1A	Mx	-.000998	1.67
10	MP1A	X	1.995	3.67
11	MP1A	Z	3.456	3.67
12	MP1A	Mx	-.000998	3.67
13	MP1B	X	1.995	1.67
14	MP1B	Z	3.456	1.67
15	MP1B	Mx	-.000998	1.67
16	MP1B	X	1.995	3.67
17	MP1B	Z	3.456	3.67
18	MP1B	Mx	-.000998	3.67
19	MP1C	X	.822	1.67
20	MP1C	Z	1.423	1.67
21	MP1C	Mx	.000822	1.67
22	MP1C	X	.822	3.67
23	MP1C	Z	1.423	3.67
24	MP1C	Mx	.000822	3.67
25	MP2A	X	2.834	1.17
26	MP2A	Z	4.908	1.17
27	MP2A	Mx	.002	1.17
28	MP2A	X	2.834	4.17
29	MP2A	Z	4.908	4.17
30	MP2A	Mx	.002	4.17
31	MP2B	X	2.834	1.17
32	MP2B	Z	4.908	1.17
33	MP2B	Mx	-.005	1.17
34	MP2B	X	2.834	4.17
35	MP2B	Z	4.908	4.17
36	MP2B	Mx	-.005	4.17
37	MP2C	X	1.418	1.17
38	MP2C	Z	2.457	1.17
39	MP2C	Mx	.001	1.17
40	MP2C	X	1.418	4.17
41	MP2C	Z	2.457	4.17
42	MP2C	Mx	.001	4.17
43	MP2A	X	4.488	1.17
44	MP2A	Z	7.773	1.17
45	MP2A	Mx	-.007	1.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
46	MP2A	X	4.488	4.17
47	MP2A	Z	7.773	4.17
48	MP2A	Mx	-.007	4.17
49	MP2B	X	4.488	1.17
50	MP2B	Z	7.773	1.17
51	MP2B	Mx	.003	1.17
52	MP2B	X	4.488	4.17
53	MP2B	Z	7.773	4.17
54	MP2B	Mx	.003	4.17
55	MP2C	X	3.252	1.17
56	MP2C	Z	5.632	1.17
57	MP2C	Mx	.003	1.17
58	MP2C	X	3.252	4.17
59	MP2C	Z	5.632	4.17
60	MP2C	Mx	.003	4.17
61	MP2A	X	1.732	2.67
62	MP2A	Z	3	2.67
63	MP2A	Mx	-.000866	2.67
64	MP2B	X	1.732	2.67
65	MP2B	Z	3	2.67
66	MP2B	Mx	-.000866	2.67
67	MP2C	X	1.266	2.67
68	MP2C	Z	2.193	2.67
69	MP2C	Mx	.001	2.67
70	MP3A	X	1.701	2.67
71	MP3A	Z	2.947	2.67
72	MP3A	Mx	-.00085	2.67
73	MP3B	X	1.701	2.67
74	MP3B	Z	2.947	2.67
75	MP3B	Mx	-.000851	2.67
76	MP3C	X	1.144	2.67
77	MP3C	Z	1.982	2.67
78	MP3C	Mx	.001	2.67
79	MP1A	X	.761	2.67
80	MP1A	Z	1.318	2.67
81	MP1A	Mx	-.00038	2.67
82	MP1B	X	.761	2.67
83	MP1B	Z	1.318	2.67
84	MP1B	Mx	-.00038	2.67
85	MP1C	X	.414	2.67
86	MP1C	Z	.717	2.67
87	MP1C	Mx	.000414	2.67
88	MP3B	X	3.628	2.5
89	MP3B	Z	6.284	2.5
90	MP3B	Mx	-.002	2.5
91	OVP1	X	3.859	1
92	OVP1	Z	6.684	1
93	OVP1	Mx	0	1
94	MP4A	X	2.532	1.67
95	MP4A	Z	4.386	1.67
96	MP4A	Mx	-.001	1.67
97	MP4A	X	2.532	3.67
98	MP4A	Z	4.386	3.67
99	MP4A	Mx	-.001	3.67
100	MP4B	X	2.532	1.67
101	MP4B	Z	4.386	1.67
102	MP4B	Mx	-.001	1.67
103	MP4B	X	2.532	3.67
104	MP4B	Z	4.386	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
105	MP4B	Mx	-.001	3.67
106	MP4C	X	1.529	1.67
107	MP4C	Z	2.648	1.67
108	MP4C	Mx	.002	1.67
109	MP4C	X	1.529	3.67
110	MP4C	Z	2.648	3.67
111	MP4C	Mx	.002	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	0	4.5
2	MP2B	Z	1.114	4.5
3	MP2B	Mx	.000482	4.5
4	MP2C	X	0	4.5
5	MP2C	Z	1.114	4.5
6	MP2C	Mx	-.000482	4.5
7	MP1A	X	0	1.67
8	MP1A	Z	4.772	1.67
9	MP1A	Mx	0	1.67
10	MP1A	X	0	3.67
11	MP1A	Z	4.772	3.67
12	MP1A	Mx	0	3.67
13	MP1B	X	0	1.67
14	MP1B	Z	2.426	1.67
15	MP1B	Mx	-.001	1.67
16	MP1B	X	0	3.67
17	MP1B	Z	2.426	3.67
18	MP1B	Mx	-.001	3.67
19	MP1C	X	0	1.67
20	MP1C	Z	2.426	1.67
21	MP1C	Mx	.001	1.67
22	MP1C	X	0	3.67
23	MP1C	Z	2.426	3.67
24	MP1C	Mx	.001	3.67
25	MP2A	X	0	1.17
26	MP2A	Z	6.611	1.17
27	MP2A	Mx	.004	1.17
28	MP2A	X	0	4.17
29	MP2A	Z	6.611	4.17
30	MP2A	Mx	.004	4.17
31	MP2B	X	0	1.17
32	MP2B	Z	3.78	1.17
33	MP2B	Mx	-.003	1.17
34	MP2B	X	0	4.17
35	MP2B	Z	3.78	4.17
36	MP2B	Mx	-.003	4.17
37	MP2C	X	0	1.17
38	MP2C	Z	3.78	1.17
39	MP2C	Mx	.000377	1.17
40	MP2C	X	0	4.17
41	MP2C	Z	3.78	4.17
42	MP2C	Mx	.000377	4.17
43	MP2A	X	0	1.17
44	MP2A	Z	9.8	1.17
45	MP2A	Mx	-.007	1.17
46	MP2A	X	0	4.17
47	MP2A	Z	9.8	4.17
48	MP2A	Mx	-.007	4.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
49	MP2B	X	0	1.17
50	MP2B	Z	7.327	1.17
51	MP2B	Mx	-.00073	1.17
52	MP2B	X	0	4.17
53	MP2B	Z	7.327	4.17
54	MP2B	Mx	-.00073	4.17
55	MP2C	X	0	1.17
56	MP2C	Z	7.327	1.17
57	MP2C	Mx	.006	1.17
58	MP2C	X	0	4.17
59	MP2C	Z	7.327	4.17
60	MP2C	Mx	.006	4.17
61	MP2A	X	0	2.67
62	MP2A	Z	3.774	2.67
63	MP2A	Mx	0	2.67
64	MP2B	X	0	2.67
65	MP2B	Z	2.843	2.67
66	MP2B	Mx	-.001	2.67
67	MP2C	X	0	2.67
68	MP2C	Z	2.843	2.67
69	MP2C	Mx	.001	2.67
70	MP3A	X	0	2.67
71	MP3A	Z	3.774	2.67
72	MP3A	Mx	0	2.67
73	MP3B	X	0	2.67
74	MP3B	Z	2.66	2.67
75	MP3B	Mx	-.001	2.67
76	MP3C	X	0	2.67
77	MP3C	Z	2.66	2.67
78	MP3C	Mx	.001	2.67
79	MP1A	X	0	2.67
80	MP1A	Z	1.753	2.67
81	MP1A	Mx	0	2.67
82	MP1B	X	0	2.67
83	MP1B	Z	1.059	2.67
84	MP1B	Mx	-.000459	2.67
85	MP1C	X	0	2.67
86	MP1C	Z	1.059	2.67
87	MP1C	Mx	.000459	2.67
88	MP3B	X	0	2.5
89	MP3B	Z	6.331	2.5
90	MP3B	Mx	-.003	2.5
91	OVP1	X	0	1
92	OVP1	Z	7.256	1
93	OVP1	Mx	0	1
94	MP4A	X	0	1.67
95	MP4A	Z	5.733	1.67
96	MP4A	Mx	0	1.67
97	MP4A	X	0	3.67
98	MP4A	Z	5.733	3.67
99	MP4A	Mx	0	3.67
100	MP4B	X	0	1.67
101	MP4B	Z	3.726	1.67
102	MP4B	Mx	-.002	1.67
103	MP4B	X	0	3.67
104	MP4B	Z	3.726	3.67
105	MP4B	Mx	-.002	3.67
106	MP4C	X	0	1.67
107	MP4C	Z	3.726	1.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
108	MP4C	Mx	.002	1.67
109	MP4C	X	0	3.67
110	MP4C	Z	3.726	3.67
111	MP4C	Mx	.002	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-.354	4.5
2	MP2B	Z	.613	4.5
3	MP2B	Mx	.000354	4.5
4	MP2C	X	-.963	4.5
5	MP2C	Z	1.668	4.5
6	MP2C	Mx	-.000482	4.5
7	MP1A	X	-1.995	1.67
8	MP1A	Z	3.456	1.67
9	MP1A	Mx	.000998	1.67
10	MP1A	X	-1.995	3.67
11	MP1A	Z	3.456	3.67
12	MP1A	Mx	.000998	3.67
13	MP1B	X	-.822	1.67
14	MP1B	Z	1.423	1.67
15	MP1B	Mx	-.000822	1.67
16	MP1B	X	-.822	3.67
17	MP1B	Z	1.423	3.67
18	MP1B	Mx	-.000822	3.67
19	MP1C	X	-1.995	1.67
20	MP1C	Z	3.456	1.67
21	MP1C	Mx	.000998	1.67
22	MP1C	X	-1.995	3.67
23	MP1C	Z	3.456	3.67
24	MP1C	Mx	.000998	3.67
25	MP2A	X	-2.834	1.17
26	MP2A	Z	4.908	1.17
27	MP2A	Mx	.005	1.17
28	MP2A	X	-2.834	4.17
29	MP2A	Z	4.908	4.17
30	MP2A	Mx	.005	4.17
31	MP2B	X	-1.418	1.17
32	MP2B	Z	2.457	1.17
33	MP2B	Mx	-.001	1.17
34	MP2B	X	-1.418	4.17
35	MP2B	Z	2.457	4.17
36	MP2B	Mx	-.001	4.17
37	MP2C	X	-2.834	1.17
38	MP2C	Z	4.908	1.17
39	MP2C	Mx	-.002	1.17
40	MP2C	X	-2.834	4.17
41	MP2C	Z	4.908	4.17
42	MP2C	Mx	-.002	4.17
43	MP2A	X	-4.488	1.17
44	MP2A	Z	7.773	1.17
45	MP2A	Mx	-.003	1.17
46	MP2A	X	-4.488	4.17
47	MP2A	Z	7.773	4.17
48	MP2A	Mx	-.003	4.17
49	MP2B	X	-3.252	1.17
50	MP2B	Z	5.632	1.17
51	MP2B	Mx	-.003	1.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
52	MP2B	X	-3.252	4.17
53	MP2B	Z	5.632	4.17
54	MP2B	Mx	-.003	4.17
55	MP2C	X	-4.488	1.17
56	MP2C	Z	7.773	1.17
57	MP2C	Mx	.007	1.17
58	MP2C	X	-4.488	4.17
59	MP2C	Z	7.773	4.17
60	MP2C	Mx	.007	4.17
61	MP2A	X	-1.732	2.67
62	MP2A	Z	3	2.67
63	MP2A	Mx	.000866	2.67
64	MP2B	X	-1.266	2.67
65	MP2B	Z	2.193	2.67
66	MP2B	Mx	-.001	2.67
67	MP2C	X	-1.732	2.67
68	MP2C	Z	3	2.67
69	MP2C	Mx	.000866	2.67
70	MP3A	X	-1.701	2.67
71	MP3A	Z	2.947	2.67
72	MP3A	Mx	.00085	2.67
73	MP3B	X	-1.144	2.67
74	MP3B	Z	1.982	2.67
75	MP3B	Mx	-.001	2.67
76	MP3C	X	-1.701	2.67
77	MP3C	Z	2.947	2.67
78	MP3C	Mx	.000851	2.67
79	MP1A	X	-.761	2.67
80	MP1A	Z	1.318	2.67
81	MP1A	Mx	.00038	2.67
82	MP1B	X	-.414	2.67
83	MP1B	Z	.717	2.67
84	MP1B	Mx	-.000414	2.67
85	MP1C	X	-.761	2.67
86	MP1C	Z	1.318	2.67
87	MP1C	Mx	.00038	2.67
88	MP3B	X	-2.934	2.5
89	MP3B	Z	5.082	2.5
90	MP3B	Mx	-.003	2.5
91	OVP1	X	-3.165	1
92	OVP1	Z	5.482	1
93	OVP1	Mx	0	1
94	MP4A	X	-2.532	1.67
95	MP4A	Z	4.386	1.67
96	MP4A	Mx	.001	1.67
97	MP4A	X	-2.532	3.67
98	MP4A	Z	4.386	3.67
99	MP4A	Mx	.001	3.67
100	MP4B	X	-1.529	1.67
101	MP4B	Z	2.648	1.67
102	MP4B	Mx	-.002	1.67
103	MP4B	X	-1.529	3.67
104	MP4B	Z	2.648	3.67
105	MP4B	Mx	-.002	3.67
106	MP4C	X	-2.532	1.67
107	MP4C	Z	4.386	1.67
108	MP4C	Mx	.001	1.67
109	MP4C	X	-2.532	3.67
110	MP4C	Z	4.386	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
111	MP4C	Mx	.001	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-.964	4.5
2	MP2B	Z	.557	4.5
3	MP2B	Mx	.000482	4.5
4	MP2C	X	-2.02	4.5
5	MP2C	Z	1.166	4.5
6	MP2C	Mx	0	4.5
7	MP1A	X	-2.101	1.67
8	MP1A	Z	1.213	1.67
9	MP1A	Mx	.001	1.67
10	MP1A	X	-2.101	3.67
11	MP1A	Z	1.213	3.67
12	MP1A	Mx	.001	3.67
13	MP1B	X	-2.101	1.67
14	MP1B	Z	1.213	1.67
15	MP1B	Mx	-.001	1.67
16	MP1B	X	-2.101	3.67
17	MP1B	Z	1.213	3.67
18	MP1B	Mx	-.001	3.67
19	MP1C	X	-4.133	1.67
20	MP1C	Z	2.386	1.67
21	MP1C	Mx	0	1.67
22	MP1C	X	-4.133	3.67
23	MP1C	Z	2.386	3.67
24	MP1C	Mx	0	3.67
25	MP2A	X	-3.274	1.17
26	MP2A	Z	1.89	1.17
27	MP2A	Mx	.003	1.17
28	MP2A	X	-3.274	4.17
29	MP2A	Z	1.89	4.17
30	MP2A	Mx	.003	4.17
31	MP2B	X	-3.274	1.17
32	MP2B	Z	1.89	1.17
33	MP2B	Mx	-.000377	1.17
34	MP2B	X	-3.274	4.17
35	MP2B	Z	1.89	4.17
36	MP2B	Mx	-.000377	4.17
37	MP2C	X	-5.725	1.17
38	MP2C	Z	3.305	1.17
39	MP2C	Mx	-.004	1.17
40	MP2C	X	-5.725	4.17
41	MP2C	Z	3.305	4.17
42	MP2C	Mx	-.004	4.17
43	MP2A	X	-6.346	1.17
44	MP2A	Z	3.664	1.17
45	MP2A	Mx	.00073	1.17
46	MP2A	X	-6.346	4.17
47	MP2A	Z	3.664	4.17
48	MP2A	Mx	.00073	4.17
49	MP2B	X	-6.346	1.17
50	MP2B	Z	3.664	1.17
51	MP2B	Mx	-.006	1.17
52	MP2B	X	-6.346	4.17
53	MP2B	Z	3.664	4.17
54	MP2B	Mx	-.006	4.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
55	MP2C	X	-8.487	1.17
56	MP2C	Z	4.9	1.17
57	MP2C	Mx	.007	1.17
58	MP2C	X	-8.487	4.17
59	MP2C	Z	4.9	4.17
60	MP2C	Mx	.007	4.17
61	MP2A	X	-2.462	2.67
62	MP2A	Z	1.421	2.67
63	MP2A	Mx	.001	2.67
64	MP2B	X	-2.462	2.67
65	MP2B	Z	1.421	2.67
66	MP2B	Mx	-.001	2.67
67	MP2C	X	-3.268	2.67
68	MP2C	Z	1.887	2.67
69	MP2C	Mx	0	2.67
70	MP3A	X	-2.304	2.67
71	MP3A	Z	1.33	2.67
72	MP3A	Mx	.001	2.67
73	MP3B	X	-2.304	2.67
74	MP3B	Z	1.33	2.67
75	MP3B	Mx	-.001	2.67
76	MP3C	X	-3.268	2.67
77	MP3C	Z	1.887	2.67
78	MP3C	Mx	0	2.67
79	MP1A	X	-.917	2.67
80	MP1A	Z	.53	2.67
81	MP1A	Mx	.000459	2.67
82	MP1B	X	-.917	2.67
83	MP1B	Z	.53	2.67
84	MP1B	Mx	-.000459	2.67
85	MP1C	X	-1.518	2.67
86	MP1C	Z	.877	2.67
87	MP1C	Mx	0	2.67
88	MP3B	X	-5.482	2.5
89	MP3B	Z	3.165	2.5
90	MP3B	Mx	-.003	2.5
91	OVP1	X	-5.082	1
92	OVP1	Z	2.934	1
93	OVP1	Mx	0	1
94	MP4A	X	-3.227	1.67
95	MP4A	Z	1.863	1.67
96	MP4A	Mx	.002	1.67
97	MP4A	X	-3.227	3.67
98	MP4A	Z	1.863	3.67
99	MP4A	Mx	.002	3.67
100	MP4B	X	-3.227	1.67
101	MP4B	Z	1.863	1.67
102	MP4B	Mx	-.002	1.67
103	MP4B	X	-3.227	3.67
104	MP4B	Z	1.863	3.67
105	MP4B	Mx	-.002	3.67
106	MP4C	X	-4.965	1.67
107	MP4C	Z	2.867	1.67
108	MP4C	Mx	0	1.67
109	MP4C	X	-4.965	3.67
110	MP4C	Z	2.867	3.67
111	MP4C	Mx	0	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-1.926	4.5
2	MP2B	Z	0	4.5
3	MP2B	Mx	.000481	4.5
4	MP2C	X	-1.926	4.5
5	MP2C	Z	0	4.5
6	MP2C	Mx	.000481	4.5
7	MP1A	X	-1.644	1.67
8	MP1A	Z	0	1.67
9	MP1A	Mx	.000822	1.67
10	MP1A	X	-1.644	3.67
11	MP1A	Z	0	3.67
12	MP1A	Mx	.000822	3.67
13	MP1B	X	-3.99	1.67
14	MP1B	Z	0	1.67
15	MP1B	Mx	-.000998	1.67
16	MP1B	X	-3.99	3.67
17	MP1B	Z	0	3.67
18	MP1B	Mx	-.000998	3.67
19	MP1C	X	-3.99	1.67
20	MP1C	Z	0	1.67
21	MP1C	Mx	-.000998	1.67
22	MP1C	X	-3.99	3.67
23	MP1C	Z	0	3.67
24	MP1C	Mx	-.000998	3.67
25	MP2A	X	-2.837	1.17
26	MP2A	Z	0	1.17
27	MP2A	Mx	.001	1.17
28	MP2A	X	-2.837	4.17
29	MP2A	Z	0	4.17
30	MP2A	Mx	.001	4.17
31	MP2B	X	-5.667	1.17
32	MP2B	Z	0	1.17
33	MP2B	Mx	.002	1.17
34	MP2B	X	-5.667	4.17
35	MP2B	Z	0	4.17
36	MP2B	Mx	.002	4.17
37	MP2C	X	-5.667	1.17
38	MP2C	Z	0	1.17
39	MP2C	Mx	-.005	1.17
40	MP2C	X	-5.667	4.17
41	MP2C	Z	0	4.17
42	MP2C	Mx	-.005	4.17
43	MP2A	X	-6.503	1.17
44	MP2A	Z	0	1.17
45	MP2A	Mx	.003	1.17
46	MP2A	X	-6.503	4.17
47	MP2A	Z	0	4.17
48	MP2A	Mx	.003	4.17
49	MP2B	X	-8.976	1.17
50	MP2B	Z	0	1.17
51	MP2B	Mx	-.007	1.17
52	MP2B	X	-8.976	4.17
53	MP2B	Z	0	4.17
54	MP2B	Mx	-.007	4.17
55	MP2C	X	-8.976	1.17
56	MP2C	Z	0	1.17
57	MP2C	Mx	.003	1.17
58	MP2C	X	-8.976	4.17
59	MP2C	Z	0	4.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
60	MP2C	Mx	.003	4.17
61	MP2A	X	-2.532	2.67
62	MP2A	Z	0	2.67
63	MP2A	Mx	.001	2.67
64	MP2B	X	-3.464	2.67
65	MP2B	Z	0	2.67
66	MP2B	Mx	-.000866	2.67
67	MP2C	X	-3.464	2.67
68	MP2C	Z	0	2.67
69	MP2C	Mx	-.000866	2.67
70	MP3A	X	-2.289	2.67
71	MP3A	Z	0	2.67
72	MP3A	Mx	.001	2.67
73	MP3B	X	-3.403	2.67
74	MP3B	Z	0	2.67
75	MP3B	Mx	-.000851	2.67
76	MP3C	X	-3.403	2.67
77	MP3C	Z	0	2.67
78	MP3C	Mx	-.000851	2.67
79	MP1A	X	-.828	2.67
80	MP1A	Z	0	2.67
81	MP1A	Mx	.000414	2.67
82	MP1B	X	-1.522	2.67
83	MP1B	Z	0	2.67
84	MP1B	Mx	-.00038	2.67
85	MP1C	X	-1.522	2.67
86	MP1C	Z	0	2.67
87	MP1C	Mx	-.00038	2.67
88	MP3B	X	-7.256	2.5
89	MP3B	Z	0	2.5
90	MP3B	Mx	-.002	2.5
91	OVP1	X	-6.331	1
92	OVP1	Z	0	1
93	OVP1	Mx	0	1
94	MP4A	X	-3.057	1.67
95	MP4A	Z	0	1.67
96	MP4A	Mx	.002	1.67
97	MP4A	X	-3.057	3.67
98	MP4A	Z	0	3.67
99	MP4A	Mx	.002	3.67
100	MP4B	X	-5.064	1.67
101	MP4B	Z	0	1.67
102	MP4B	Mx	-.001	1.67
103	MP4B	X	-5.064	3.67
104	MP4B	Z	0	3.67
105	MP4B	Mx	-.001	3.67
106	MP4C	X	-5.064	1.67
107	MP4C	Z	0	1.67
108	MP4C	Mx	-.001	1.67
109	MP4C	X	-5.064	3.67
110	MP4C	Z	0	3.67
111	MP4C	Mx	-.001	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-2.02	4.5
2	MP2B	Z	-1.166	4.5
3	MP2B	Mx	0	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP2C	X	-.964	4.5
5	MP2C	Z	-.557	4.5
6	MP2C	Mx	.000482	4.5
7	MP1A	X	-2.101	1.67
8	MP1A	Z	-1.213	1.67
9	MP1A	Mx	.001	1.67
10	MP1A	X	-2.101	3.67
11	MP1A	Z	-1.213	3.67
12	MP1A	Mx	.001	3.67
13	MP1B	X	-4.133	1.67
14	MP1B	Z	-2.386	1.67
15	MP1B	Mx	0	1.67
16	MP1B	X	-4.133	3.67
17	MP1B	Z	-2.386	3.67
18	MP1B	Mx	0	3.67
19	MP1C	X	-2.101	1.67
20	MP1C	Z	-1.213	1.67
21	MP1C	Mx	-.001	1.67
22	MP1C	X	-2.101	3.67
23	MP1C	Z	-1.213	3.67
24	MP1C	Mx	-.001	3.67
25	MP2A	X	-3.274	1.17
26	MP2A	Z	-1.89	1.17
27	MP2A	Mx	.000377	1.17
28	MP2A	X	-3.274	4.17
29	MP2A	Z	-1.89	4.17
30	MP2A	Mx	.000377	4.17
31	MP2B	X	-5.725	1.17
32	MP2B	Z	-3.305	1.17
33	MP2B	Mx	.004	1.17
34	MP2B	X	-5.725	4.17
35	MP2B	Z	-3.305	4.17
36	MP2B	Mx	.004	4.17
37	MP2C	X	-3.274	1.17
38	MP2C	Z	-1.89	1.17
39	MP2C	Mx	-.003	1.17
40	MP2C	X	-3.274	4.17
41	MP2C	Z	-1.89	4.17
42	MP2C	Mx	-.003	4.17
43	MP2A	X	-6.346	1.17
44	MP2A	Z	-3.664	1.17
45	MP2A	Mx	.006	1.17
46	MP2A	X	-6.346	4.17
47	MP2A	Z	-3.664	4.17
48	MP2A	Mx	.006	4.17
49	MP2B	X	-8.487	1.17
50	MP2B	Z	-4.9	1.17
51	MP2B	Mx	-.007	1.17
52	MP2B	X	-8.487	4.17
53	MP2B	Z	-4.9	4.17
54	MP2B	Mx	-.007	4.17
55	MP2C	X	-6.346	1.17
56	MP2C	Z	-3.664	1.17
57	MP2C	Mx	-.000731	1.17
58	MP2C	X	-6.346	4.17
59	MP2C	Z	-3.664	4.17
60	MP2C	Mx	-.000731	4.17
61	MP2A	X	-2.462	2.67
62	MP2A	Z	-1.421	2.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP2A	Mx	.001	2.67
64	MP2B	X	-3.268	2.67
65	MP2B	Z	-1.887	2.67
66	MP2B	Mx	0	2.67
67	MP2C	X	-2.462	2.67
68	MP2C	Z	-1.421	2.67
69	MP2C	Mx	-.001	2.67
70	MP3A	X	-2.304	2.67
71	MP3A	Z	-1.33	2.67
72	MP3A	Mx	.001	2.67
73	MP3B	X	-3.268	2.67
74	MP3B	Z	-1.887	2.67
75	MP3B	Mx	0	2.67
76	MP3C	X	-2.304	2.67
77	MP3C	Z	-1.33	2.67
78	MP3C	Mx	-.001	2.67
79	MP1A	X	-.917	2.67
80	MP1A	Z	-.53	2.67
81	MP1A	Mx	.000459	2.67
82	MP1B	X	-1.518	2.67
83	MP1B	Z	-.877	2.67
84	MP1B	Mx	0	2.67
85	MP1C	X	-.917	2.67
86	MP1C	Z	-.53	2.67
87	MP1C	Mx	-.000459	2.67
88	MP3B	X	-6.684	2.5
89	MP3B	Z	-3.859	2.5
90	MP3B	Mx	0	2.5
91	OVP1	X	-6.284	1
92	OVP1	Z	-3.628	1
93	OVP1	Mx	0	1
94	MP4A	X	-3.227	1.67
95	MP4A	Z	-1.863	1.67
96	MP4A	Mx	.002	1.67
97	MP4A	X	-3.227	3.67
98	MP4A	Z	-1.863	3.67
99	MP4A	Mx	.002	3.67
100	MP4B	X	-4.965	1.67
101	MP4B	Z	-2.867	1.67
102	MP4B	Mx	0	1.67
103	MP4B	X	-4.965	3.67
104	MP4B	Z	-2.867	3.67
105	MP4B	Mx	0	3.67
106	MP4C	X	-3.227	1.67
107	MP4C	Z	-1.863	1.67
108	MP4C	Mx	-.002	1.67
109	MP4C	X	-3.227	3.67
110	MP4C	Z	-1.863	3.67
111	MP4C	Mx	-.002	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-.963	4.5
2	MP2B	Z	-1.668	4.5
3	MP2B	Mx	-.000482	4.5
4	MP2C	X	-.354	4.5
5	MP2C	Z	-.613	4.5
6	MP2C	Mx	.000354	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
7	MP1A	X	-1.995	1.67
8	MP1A	Z	-3.456	1.67
9	MP1A	Mx	.000998	1.67
10	MP1A	X	-1.995	3.67
11	MP1A	Z	-3.456	3.67
12	MP1A	Mx	.000998	3.67
13	MP1B	X	-1.995	1.67
14	MP1B	Z	-3.456	1.67
15	MP1B	Mx	.000998	1.67
16	MP1B	X	-1.995	3.67
17	MP1B	Z	-3.456	3.67
18	MP1B	Mx	.000998	3.67
19	MP1C	X	-.822	1.67
20	MP1C	Z	-1.423	1.67
21	MP1C	Mx	-.000822	1.67
22	MP1C	X	-.822	3.67
23	MP1C	Z	-1.423	3.67
24	MP1C	Mx	-.000822	3.67
25	MP2A	X	-2.834	1.17
26	MP2A	Z	-4.908	1.17
27	MP2A	Mx	-.002	1.17
28	MP2A	X	-2.834	4.17
29	MP2A	Z	-4.908	4.17
30	MP2A	Mx	-.002	4.17
31	MP2B	X	-2.834	1.17
32	MP2B	Z	-4.908	1.17
33	MP2B	Mx	.005	1.17
34	MP2B	X	-2.834	4.17
35	MP2B	Z	-4.908	4.17
36	MP2B	Mx	.005	4.17
37	MP2C	X	-1.418	1.17
38	MP2C	Z	-2.457	1.17
39	MP2C	Mx	-.001	1.17
40	MP2C	X	-1.418	4.17
41	MP2C	Z	-2.457	4.17
42	MP2C	Mx	-.001	4.17
43	MP2A	X	-4.488	1.17
44	MP2A	Z	-7.773	1.17
45	MP2A	Mx	.007	1.17
46	MP2A	X	-4.488	4.17
47	MP2A	Z	-7.773	4.17
48	MP2A	Mx	.007	4.17
49	MP2B	X	-4.488	1.17
50	MP2B	Z	-7.773	1.17
51	MP2B	Mx	-.003	1.17
52	MP2B	X	-4.488	4.17
53	MP2B	Z	-7.773	4.17
54	MP2B	Mx	-.003	4.17
55	MP2C	X	-3.252	1.17
56	MP2C	Z	-5.632	1.17
57	MP2C	Mx	-.003	1.17
58	MP2C	X	-3.252	4.17
59	MP2C	Z	-5.632	4.17
60	MP2C	Mx	-.003	4.17
61	MP2A	X	-1.732	2.67
62	MP2A	Z	-3	2.67
63	MP2A	Mx	.000866	2.67
64	MP2B	X	-1.732	2.67
65	MP2B	Z	-3	2.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
66	MP2B	Mx	.000866	2.67
67	MP2C	X	-1.266	2.67
68	MP2C	Z	-2.193	2.67
69	MP2C	Mx	-.001	2.67
70	MP3A	X	-1.701	2.67
71	MP3A	Z	-2.947	2.67
72	MP3A	Mx	.00085	2.67
73	MP3B	X	-1.701	2.67
74	MP3B	Z	-2.947	2.67
75	MP3B	Mx	.000851	2.67
76	MP3C	X	-1.144	2.67
77	MP3C	Z	-1.982	2.67
78	MP3C	Mx	-.001	2.67
79	MP1A	X	-.761	2.67
80	MP1A	Z	-1.318	2.67
81	MP1A	Mx	.00038	2.67
82	MP1B	X	-.761	2.67
83	MP1B	Z	-1.318	2.67
84	MP1B	Mx	.00038	2.67
85	MP1C	X	-.414	2.67
86	MP1C	Z	-.717	2.67
87	MP1C	Mx	-.000414	2.67
88	MP3B	X	-3.628	2.5
89	MP3B	Z	-6.284	2.5
90	MP3B	Mx	.002	2.5
91	OVP1	X	-3.859	1
92	OVP1	Z	-6.684	1
93	OVP1	Mx	0	1
94	MP4A	X	-2.532	1.67
95	MP4A	Z	-4.386	1.67
96	MP4A	Mx	.001	1.67
97	MP4A	X	-2.532	3.67
98	MP4A	Z	-4.386	3.67
99	MP4A	Mx	.001	3.67
100	MP4B	X	-2.532	1.67
101	MP4B	Z	-4.386	1.67
102	MP4B	Mx	.001	1.67
103	MP4B	X	-2.532	3.67
104	MP4B	Z	-4.386	3.67
105	MP4B	Mx	.001	3.67
106	MP4C	X	-1.529	1.67
107	MP4C	Z	-2.648	1.67
108	MP4C	Mx	-.002	1.67
109	MP4C	X	-1.529	3.67
110	MP4C	Z	-2.648	3.67
111	MP4C	Mx	-.002	3.67

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-500	0

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M2	Y	-500	0

Member Point Loads (BLC 79 : Lv1)

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

Member Point Loads (BLC 79 : Lv1) (Continued)

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

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M5	Y	-250	%100

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	Y	-.751	4.5
2	MP2B	My	-.000188	4.5
3	MP2B	Mz	.000325	4.5
4	MP2C	Y	-.751	4.5
5	MP2C	My	-.000188	4.5
6	MP2C	Mz	-.000325	4.5
7	MP1A	Y	-1.858	1.67
8	MP1A	My	-.000929	1.67
9	MP1A	Mz	0	1.67
10	MP1A	Y	-1.858	3.67
11	MP1A	My	-.000929	3.67
12	MP1A	Mz	0	3.67
13	MP1B	Y	-1.858	1.67
14	MP1B	My	.000465	1.67
15	MP1B	Mz	-.000805	1.67
16	MP1B	Y	-1.858	3.67
17	MP1B	My	.000465	3.67
18	MP1B	Mz	-.000805	3.67
19	MP1C	Y	-1.858	1.67
20	MP1C	My	.000465	1.67
21	MP1C	Mz	.000805	1.67
22	MP1C	Y	-1.858	3.67
23	MP1C	My	.000465	3.67
24	MP1C	Mz	.000805	3.67
25	MP2A	Y	-.932	1.17
26	MP2A	My	-.000466	1.17
27	MP2A	Mz	.000622	1.17
28	MP2A	Y	-.932	4.17
29	MP2A	My	-.000466	4.17
30	MP2A	Mz	.000622	4.17
31	MP2B	Y	-.932	1.17
32	MP2B	My	-.000305	1.17
33	MP2B	Mz	-.000714	1.17
34	MP2B	Y	-.932	4.17
35	MP2B	My	-.000305	4.17
36	MP2B	Mz	-.000714	4.17
37	MP2C	Y	-.932	1.17
38	MP2C	My	.000771	1.17
39	MP2C	Mz	9.3e-5	1.17
40	MP2C	Y	-.932	4.17
41	MP2C	My	.000771	4.17
42	MP2C	Mz	9.3e-5	4.17
43	MP2A	Y	-1.378	1.17
44	MP2A	My	-.000689	1.17
45	MP2A	Mz	-.000919	1.17
46	MP2A	Y	-1.378	4.17
47	MP2A	My	-.000689	4.17
48	MP2A	Mz	-.000919	4.17
49	MP2B	Y	-1.378	1.17
50	MP2B	My	.001	1.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
51	MP2B	Mz	-.000137	1.17
52	MP2B	Y	-1.378	4.17
53	MP2B	My	.001	4.17
54	MP2B	Mz	-.000137	4.17
55	MP2C	Y	-1.378	1.17
56	MP2C	My	-.000451	1.17
57	MP2C	Mz	.001	1.17
58	MP2C	Y	-1.378	4.17
59	MP2C	My	-.000451	4.17
60	MP2C	Mz	.001	4.17
61	MP2A	Y	-3.187	2.67
62	MP2A	My	-.002	2.67
63	MP2A	Mz	0	2.67
64	MP2B	Y	-3.187	2.67
65	MP2B	My	.000797	2.67
66	MP2B	Mz	-.001	2.67
67	MP2C	Y	-3.187	2.67
68	MP2C	My	.000797	2.67
69	MP2C	Mz	.001	2.67
70	MP3A	Y	-2.999	2.67
71	MP3A	My	-.002	2.67
72	MP3A	Mz	0	2.67
73	MP3B	Y	-2.999	2.67
74	MP3B	My	.00075	2.67
75	MP3B	Mz	-.001	2.67
76	MP3C	Y	-2.999	2.67
77	MP3C	My	.00075	2.67
78	MP3C	Mz	.001	2.67
79	MP1A	Y	-.798	2.67
80	MP1A	My	-.000399	2.67
81	MP1A	Mz	0	2.67
82	MP1B	Y	-.798	2.67
83	MP1B	My	.000199	2.67
84	MP1B	Mz	-.000345	2.67
85	MP1C	Y	-.798	2.67
86	MP1C	My	.000199	2.67
87	MP1C	Mz	.000345	2.67
88	MP3B	Y	-1.365	2.5
89	MP3B	My	.000341	2.5
90	MP3B	Mz	-.000591	2.5
91	OVP1	Y	-1.365	1
92	OVP1	My	0	1
93	OVP1	Mz	0	1
94	MP4A	Y	-.211	1.67
95	MP4A	My	-.000106	1.67
96	MP4A	Mz	0	1.67
97	MP4A	Y	-.211	3.67
98	MP4A	My	-.000106	3.67
99	MP4A	Mz	0	3.67
100	MP4B	Y	-.211	1.67
101	MP4B	My	5.3e-5	1.67
102	MP4B	Mz	-9.1e-5	1.67
103	MP4B	Y	-.211	3.67
104	MP4B	My	5.3e-5	3.67
105	MP4B	Mz	-9.1e-5	3.67
106	MP4C	Y	-.211	1.67
107	MP4C	My	5.3e-5	1.67
108	MP4C	Mz	9.1e-5	1.67
109	MP4C	Y	-.211	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
110	MP4C	My	5.3e-5	3.67
111	MP4C	Mz	9.1e-5	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	Z	-1.877	4.5
2	MP2B	Mx	-.000813	4.5
3	MP2C	Z	-1.877	4.5
4	MP2C	Mx	.000813	4.5
5	MP1A	Z	-4.645	1.67
6	MP1A	Mx	0	1.67
7	MP1A	Z	-4.645	3.67
8	MP1A	Mx	0	3.67
9	MP1B	Z	-4.645	1.67
10	MP1B	Mx	.002	1.67
11	MP1B	Z	-4.645	3.67
12	MP1B	Mx	.002	3.67
13	MP1C	Z	-4.645	1.67
14	MP1C	Mx	-.002	1.67
15	MP1C	Z	-4.645	3.67
16	MP1C	Mx	-.002	3.67
17	MP2A	Z	-2.331	1.17
18	MP2A	Mx	-.002	1.17
19	MP2A	Z	-2.331	4.17
20	MP2A	Mx	-.002	4.17
21	MP2B	Z	-2.331	1.17
22	MP2B	Mx	.002	1.17
23	MP2B	Z	-2.331	4.17
24	MP2B	Mx	.002	4.17
25	MP2C	Z	-2.331	1.17
26	MP2C	Mx	-.000232	1.17
27	MP2C	Z	-2.331	4.17
28	MP2C	Mx	-.000232	4.17
29	MP2A	Z	-3.445	1.17
30	MP2A	Mx	.002	1.17
31	MP2A	Z	-3.445	4.17
32	MP2A	Mx	.002	4.17
33	MP2B	Z	-3.445	1.17
34	MP2B	Mx	.000343	1.17
35	MP2B	Z	-3.445	4.17
36	MP2B	Mx	.000343	4.17
37	MP2C	Z	-3.445	1.17
38	MP2C	Mx	-.003	1.17
39	MP2C	Z	-3.445	4.17
40	MP2C	Mx	-.003	4.17
41	MP2A	Z	-7.968	2.67
42	MP2A	Mx	0	2.67
43	MP2B	Z	-7.968	2.67
44	MP2B	Mx	.003	2.67
45	MP2C	Z	-7.968	2.67
46	MP2C	Mx	-.003	2.67
47	MP3A	Z	-7.499	2.67
48	MP3A	Mx	0	2.67
49	MP3B	Z	-7.499	2.67
50	MP3B	Mx	.003	2.67
51	MP3C	Z	-7.499	2.67
52	MP3C	Mx	-.003	2.67
53	MP1A	Z	-1.995	2.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
54	MP1A	Mx	0	2.67
55	MP1B	Z	-1.995	2.67
56	MP1B	Mx	.000864	2.67
57	MP1C	Z	-1.995	2.67
58	MP1C	Mx	-.000864	2.67
59	MP3B	Z	-3.413	2.5
60	MP3B	Mx	.001	2.5
61	OVP1	Z	-3.413	1
62	OVP1	Mx	0	1
63	MP4A	Z	-.528	1.67
64	MP4A	Mx	0	1.67
65	MP4A	Z	-.528	3.67
66	MP4A	Mx	0	3.67
67	MP4B	Z	-.528	1.67
68	MP4B	Mx	.000229	1.67
69	MP4B	Z	-.528	3.67
70	MP4B	Mx	.000229	3.67
71	MP4C	Z	-.528	1.67
72	MP4C	Mx	-.000229	1.67
73	MP4C	Z	-.528	3.67
74	MP4C	Mx	-.000229	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	1.877	4.5
2	MP2B	Mx	-.000469	4.5
3	MP2C	X	1.877	4.5
4	MP2C	Mx	-.000469	4.5
5	MP1A	X	4.645	1.67
6	MP1A	Mx	-.002	1.67
7	MP1A	X	4.645	3.67
8	MP1A	Mx	-.002	3.67
9	MP1B	X	4.645	1.67
10	MP1B	Mx	.001	1.67
11	MP1B	X	4.645	3.67
12	MP1B	Mx	.001	3.67
13	MP1C	X	4.645	1.67
14	MP1C	Mx	.001	1.67
15	MP1C	X	4.645	3.67
16	MP1C	Mx	.001	3.67
17	MP2A	X	2.331	1.17
18	MP2A	Mx	-.001	1.17
19	MP2A	X	2.331	4.17
20	MP2A	Mx	-.001	4.17
21	MP2B	X	2.331	1.17
22	MP2B	Mx	-.000763	1.17
23	MP2B	X	2.331	4.17
24	MP2B	Mx	-.000763	4.17
25	MP2C	X	2.331	1.17
26	MP2C	Mx	.002	1.17
27	MP2C	X	2.331	4.17
28	MP2C	Mx	.002	4.17
29	MP2A	X	3.445	1.17
30	MP2A	Mx	-.002	1.17
31	MP2A	X	3.445	4.17
32	MP2A	Mx	-.002	4.17
33	MP2B	X	3.445	1.17
34	MP2B	Mx	.003	1.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	MP2B	X	3.445	4.17
36	MP2B	Mx	.003	4.17
37	MP2C	X	3.445	1.17
38	MP2C	Mx	-.001	1.17
39	MP2C	X	3.445	4.17
40	MP2C	Mx	-.001	4.17
41	MP2A	X	7.968	2.67
42	MP2A	Mx	-.004	2.67
43	MP2B	X	7.968	2.67
44	MP2B	Mx	.002	2.67
45	MP2C	X	7.968	2.67
46	MP2C	Mx	.002	2.67
47	MP3A	X	7.499	2.67
48	MP3A	Mx	-.004	2.67
49	MP3B	X	7.499	2.67
50	MP3B	Mx	.002	2.67
51	MP3C	X	7.499	2.67
52	MP3C	Mx	.002	2.67
53	MP1A	X	1.995	2.67
54	MP1A	Mx	-.000997	2.67
55	MP1B	X	1.995	2.67
56	MP1B	Mx	.000499	2.67
57	MP1C	X	1.995	2.67
58	MP1C	Mx	.000499	2.67
59	MP3B	X	3.413	2.5
60	MP3B	Mx	.000853	2.5
61	OVP1	X	3.413	1
62	OVP1	Mx	0	1
63	MP4A	X	.528	1.67
64	MP4A	Mx	-.000264	1.67
65	MP4A	X	.528	3.67
66	MP4A	Mx	-.000264	3.67
67	MP4B	X	.528	1.67
68	MP4B	Mx	.000132	1.67
69	MP4B	X	.528	3.67
70	MP4B	Mx	.000132	3.67
71	MP4C	X	.528	1.67
72	MP4C	Mx	.000132	1.67
73	MP4C	X	.528	3.67
74	MP4C	Mx	.000132	3.67

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	Y	-7.262	-7.262	0	%100
2	M7	Y	-7.262	-7.262	0	%100
3	M10A	Y	-9.646	-9.646	0	%100
4	M12	Y	-10.139	-10.139	0	%100
5	M13	Y	-9.18	-9.18	0	%100
6	M24A	Y	-9.646	-9.646	0	%100
7	M24B	Y	-10.139	-10.139	0	%100
8	M25A	Y	-9.646	-9.646	0	%100
9	M25B	Y	-9.18	-9.18	0	%100
10	M26	Y	-7.262	-7.262	0	%100
11	M27	Y	-7.262	-7.262	0	%100
12	M28	Y	-7.262	-7.262	0	%100
13	M28A	Y	-10.139	-10.139	0	%100
14	M29	Y	-7.262	-7.262	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
15	M29A	Y	-9.18	-9.18	0	%100
16	MP1A	Y	-4.728	-4.728	0	%100
17	MP1B	Y	-4.728	-4.728	0	%100
18	MP1C	Y	-4.728	-4.728	0	%100
19	MP2A	Y	-5.406	-5.406	0	%100
20	MP2B	Y	-5.406	-5.406	0	%100
21	MP2C	Y	-5.406	-5.406	0	%100
22	MP3A	Y	-4.728	-4.728	0	%100
23	MP3B	Y	-4.728	-4.728	0	%100
24	MP3C	Y	-4.728	-4.728	0	%100
25	MP4A	Y	-4.728	-4.728	0	%100
26	MP4B	Y	-4.728	-4.728	0	%100
27	MP4C	Y	-4.728	-4.728	0	%100
28	OVP1	Y	-6.254	-6.254	0	%100
29	M59	Y	-4.728	-4.728	0	%100
30	M60	Y	-4.728	-4.728	0	%100
31	M61	Y	-4.728	-4.728	0	%100
32	M62	Y	-6.302	-6.302	0	%100
33	M63	Y	-6.302	-6.302	0	%100
34	M64	Y	-6.302	-6.302	0	%100
35	M65	Y	-6.302	-6.302	0	%100
36	M66	Y	-6.302	-6.302	0	%100
37	M67	Y	-6.302	-6.302	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	0	0	0	%100
2	M5	Z	-19.435	-19.435	0	%100
3	M7	X	0	0	0	%100
4	M7	Z	-19.435	-19.435	0	%100
5	M10A	X	0	0	0	%100
6	M10A	Z	0	0	0	%100
7	M12	X	0	0	0	%100
8	M12	Z	0	0	0	%100
9	M13	X	0	0	0	%100
10	M13	Z	0	0	0	%100
11	M24A	X	0	0	0	%100
12	M24A	Z	-12.188	-12.188	0	%100
13	M24B	X	0	0	0	%100
14	M24B	Z	-10.84	-10.84	0	%100
15	M25A	X	0	0	0	%100
16	M25A	Z	-12.188	-12.188	0	%100
17	M25B	X	0	0	0	%100
18	M25B	Z	-8.287	-8.287	0	%100
19	M26	X	0	0	0	%100
20	M26	Z	-4.859	-4.859	0	%100
21	M27	X	0	0	0	%100
22	M27	Z	-4.859	-4.859	0	%100
23	M28	X	0	0	0	%100
24	M28	Z	-4.859	-4.859	0	%100
25	M28A	X	0	0	0	%100
26	M28A	Z	-10.84	-10.84	0	%100
27	M29	X	0	0	0	%100
28	M29	Z	-4.859	-4.859	0	%100
29	M29A	X	0	0	0	%100
30	M29A	Z	-8.287	-8.287	0	%100
31	MP1A	X	0	0	0	%100
32	MP1A	Z	-9.232	-9.232	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
33	MP1B	X	0	0	0	%100
34	MP1B	Z	-9.232	-9.232	0	%100
35	MP1C	X	0	0	0	%100
36	MP1C	Z	-9.232	-9.232	0	%100
37	MP2A	X	0	0	0	%100
38	MP2A	Z	-11.175	-11.175	0	%100
39	MP2B	X	0	0	0	%100
40	MP2B	Z	-11.175	-11.175	0	%100
41	MP2C	X	0	0	0	%100
42	MP2C	Z	-11.175	-11.175	0	%100
43	MP3A	X	0	0	0	%100
44	MP3A	Z	-9.232	-9.232	0	%100
45	MP3B	X	0	0	0	%100
46	MP3B	Z	-9.232	-9.232	0	%100
47	MP3C	X	0	0	0	%100
48	MP3C	Z	-9.232	-9.232	0	%100
49	MP4A	X	0	0	0	%100
50	MP4A	Z	-9.232	-9.232	0	%100
51	MP4B	X	0	0	0	%100
52	MP4B	Z	-9.232	-9.232	0	%100
53	MP4C	X	0	0	0	%100
54	MP4C	Z	-9.232	-9.232	0	%100
55	OVP1	X	0	0	0	%100
56	OVP1	Z	-9.466	-9.466	0	%100
57	M59	X	0	0	0	%100
58	M59	Z	-9.232	-9.232	0	%100
59	M60	X	0	0	0	%100
60	M60	Z	-2.308	-2.308	0	%100
61	M61	X	0	0	0	%100
62	M61	Z	-2.308	-2.308	0	%100
63	M62	X	0	0	0	%100
64	M62	Z	-11.647	-11.647	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	-11.647	-11.647	0	%100
67	M64	X	0	0	0	%100
68	M64	Z	-15.379	-15.379	0	%100
69	M65	X	0	0	0	%100
70	M65	Z	-6.974	-6.974	0	%100
71	M66	X	0	0	0	%100
72	M66	Z	-6.974	-6.974	0	%100
73	M67	X	0	0	0	%100
74	M67	Z	-15.379	-15.379	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	7.288	7.288	0	%100
2	M5	Z	-12.624	-12.624	0	%100
3	M7	X	7.288	7.288	0	%100
4	M7	Z	-12.624	-12.624	0	%100
5	M10A	X	2.031	2.031	0	%100
6	M10A	Z	-3.518	-3.518	0	%100
7	M12	X	1.807	1.807	0	%100
8	M12	Z	-3.129	-3.129	0	%100
9	M13	X	1.381	1.381	0	%100
10	M13	Z	-2.392	-2.392	0	%100
11	M24A	X	2.031	2.031	0	%100
12	M24A	Z	-3.518	-3.518	0	%100
13	M24B	X	1.807	1.807	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
14	M24B	Z	-3.129	-3.129	0	%100
15	M25A	X	8.125	8.125	0	%100
16	M25A	Z	-14.073	-14.073	0	%100
17	M25B	X	1.381	1.381	0	%100
18	M25B	Z	-2.392	-2.392	0	%100
19	M26	X	7.288	7.288	0	%100
20	M26	Z	-12.624	-12.624	0	%100
21	M27	X	7.288	7.288	0	%100
22	M27	Z	-12.624	-12.624	0	%100
23	M28	X	0	0	0	%100
24	M28	Z	0	0	0	%100
25	M28A	X	7.226	7.226	0	%100
26	M28A	Z	-12.516	-12.516	0	%100
27	M29	X	0	0	0	%100
28	M29	Z	0	0	0	%100
29	M29A	X	5.525	5.525	0	%100
30	M29A	Z	-9.569	-9.569	0	%100
31	MP1A	X	4.616	4.616	0	%100
32	MP1A	Z	-7.995	-7.995	0	%100
33	MP1B	X	4.616	4.616	0	%100
34	MP1B	Z	-7.995	-7.995	0	%100
35	MP1C	X	4.616	4.616	0	%100
36	MP1C	Z	-7.995	-7.995	0	%100
37	MP2A	X	5.588	5.588	0	%100
38	MP2A	Z	-9.678	-9.678	0	%100
39	MP2B	X	5.588	5.588	0	%100
40	MP2B	Z	-9.678	-9.678	0	%100
41	MP2C	X	5.588	5.588	0	%100
42	MP2C	Z	-9.678	-9.678	0	%100
43	MP3A	X	4.616	4.616	0	%100
44	MP3A	Z	-7.995	-7.995	0	%100
45	MP3B	X	4.616	4.616	0	%100
46	MP3B	Z	-7.995	-7.995	0	%100
47	MP3C	X	4.616	4.616	0	%100
48	MP3C	Z	-7.995	-7.995	0	%100
49	MP4A	X	4.616	4.616	0	%100
50	MP4A	Z	-7.995	-7.995	0	%100
51	MP4B	X	4.616	4.616	0	%100
52	MP4B	Z	-7.995	-7.995	0	%100
53	MP4C	X	4.616	4.616	0	%100
54	MP4C	Z	-7.995	-7.995	0	%100
55	OVP1	X	4.733	4.733	0	%100
56	OVP1	Z	-8.198	-8.198	0	%100
57	M59	X	3.462	3.462	0	%100
58	M59	Z	-5.996	-5.996	0	%100
59	M60	X	3.462	3.462	0	%100
60	M60	Z	-5.996	-5.996	0	%100
61	M61	X	0	0	0	%100
62	M61	Z	0	0	0	%100
63	M62	X	3.644	3.644	0	%100
64	M62	Z	-6.311	-6.311	0	%100
65	M63	X	7.846	7.846	0	%100
66	M63	Z	-13.59	-13.59	0	%100
67	M64	X	7.846	7.846	0	%100
68	M64	Z	-13.59	-13.59	0	%100
69	M65	X	3.644	3.644	0	%100
70	M65	Z	-6.311	-6.311	0	%100
71	M66	X	5.51	5.51	0	%100
72	M66	Z	-9.543	-9.543	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
73	M67	X	5.51	5.51	0	%100
74	M67	Z	-9.543	-9.543	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	4.208	4.208	0	%100
2	M5	Z	-2.429	-2.429	0	%100
3	M7	X	4.208	4.208	0	%100
4	M7	Z	-2.429	-2.429	0	%100
5	M10A	X	10.555	10.555	0	%100
6	M10A	Z	-6.094	-6.094	0	%100
7	M12	X	9.387	9.387	0	%100
8	M12	Z	-5.42	-5.42	0	%100
9	M13	X	7.177	7.177	0	%100
10	M13	Z	-4.143	-4.143	0	%100
11	M24A	X	0	0	0	%100
12	M24A	Z	0	0	0	%100
13	M24B	X	0	0	0	%100
14	M24B	Z	0	0	0	%100
15	M25A	X	10.555	10.555	0	%100
16	M25A	Z	-6.094	-6.094	0	%100
17	M25B	X	0	0	0	%100
18	M25B	Z	0	0	0	%100
19	M26	X	16.831	16.831	0	%100
20	M26	Z	-9.718	-9.718	0	%100
21	M27	X	16.831	16.831	0	%100
22	M27	Z	-9.718	-9.718	0	%100
23	M28	X	4.208	4.208	0	%100
24	M28	Z	-2.429	-2.429	0	%100
25	M28A	X	9.387	9.387	0	%100
26	M28A	Z	-5.42	-5.42	0	%100
27	M29	X	4.208	4.208	0	%100
28	M29	Z	-2.429	-2.429	0	%100
29	M29A	X	7.177	7.177	0	%100
30	M29A	Z	-4.143	-4.143	0	%100
31	MP1A	X	7.995	7.995	0	%100
32	MP1A	Z	-4.616	-4.616	0	%100
33	MP1B	X	7.995	7.995	0	%100
34	MP1B	Z	-4.616	-4.616	0	%100
35	MP1C	X	7.995	7.995	0	%100
36	MP1C	Z	-4.616	-4.616	0	%100
37	MP2A	X	9.678	9.678	0	%100
38	MP2A	Z	-5.588	-5.588	0	%100
39	MP2B	X	9.678	9.678	0	%100
40	MP2B	Z	-5.588	-5.588	0	%100
41	MP2C	X	9.678	9.678	0	%100
42	MP2C	Z	-5.588	-5.588	0	%100
43	MP3A	X	7.995	7.995	0	%100
44	MP3A	Z	-4.616	-4.616	0	%100
45	MP3B	X	7.995	7.995	0	%100
46	MP3B	Z	-4.616	-4.616	0	%100
47	MP3C	X	7.995	7.995	0	%100
48	MP3C	Z	-4.616	-4.616	0	%100
49	MP4A	X	7.995	7.995	0	%100
50	MP4A	Z	-4.616	-4.616	0	%100
51	MP4B	X	7.995	7.995	0	%100
52	MP4B	Z	-4.616	-4.616	0	%100
53	MP4C	X	7.995	7.995	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
54	MP4C	Z	-4.616	-4.616	0	%100
55	OVP1	X	8.198	8.198	0	%100
56	OVP1	Z	-4.733	-4.733	0	%100
57	M59	X	1.999	1.999	0	%100
58	M59	Z	-1.154	-1.154	0	%100
59	M60	X	7.995	7.995	0	%100
60	M60	Z	-4.616	-4.616	0	%100
61	M61	X	1.999	1.999	0	%100
62	M61	Z	-1.154	-1.154	0	%100
63	M62	X	6.04	6.04	0	%100
64	M62	Z	-3.487	-3.487	0	%100
65	M63	X	13.319	13.319	0	%100
66	M63	Z	-7.69	-7.69	0	%100
67	M64	X	10.086	10.086	0	%100
68	M64	Z	-5.823	-5.823	0	%100
69	M65	X	10.086	10.086	0	%100
70	M65	Z	-5.823	-5.823	0	%100
71	M66	X	13.319	13.319	0	%100
72	M66	Z	-7.69	-7.69	0	%100
73	M67	X	6.04	6.04	0	%100
74	M67	Z	-3.487	-3.487	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	0	0	0	%100
2	M5	Z	0	0	0	%100
3	M7	X	0	0	0	%100
4	M7	Z	0	0	0	%100
5	M10A	X	16.25	16.25	0	%100
6	M10A	Z	0	0	0	%100
7	M12	X	14.453	14.453	0	%100
8	M12	Z	0	0	0	%100
9	M13	X	11.049	11.049	0	%100
10	M13	Z	0	0	0	%100
11	M24A	X	4.063	4.063	0	%100
12	M24A	Z	0	0	0	%100
13	M24B	X	3.613	3.613	0	%100
14	M24B	Z	0	0	0	%100
15	M25A	X	4.063	4.063	0	%100
16	M25A	Z	0	0	0	%100
17	M25B	X	2.762	2.762	0	%100
18	M25B	Z	0	0	0	%100
19	M26	X	14.576	14.576	0	%100
20	M26	Z	0	0	0	%100
21	M27	X	14.576	14.576	0	%100
22	M27	Z	0	0	0	%100
23	M28	X	14.576	14.576	0	%100
24	M28	Z	0	0	0	%100
25	M28A	X	3.613	3.613	0	%100
26	M28A	Z	0	0	0	%100
27	M29	X	14.576	14.576	0	%100
28	M29	Z	0	0	0	%100
29	M29A	X	2.762	2.762	0	%100
30	M29A	Z	0	0	0	%100
31	MP1A	X	9.232	9.232	0	%100
32	MP1A	Z	0	0	0	%100
33	MP1B	X	9.232	9.232	0	%100
34	MP1B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
35	MP1C	X	9.232	9.232	0	%100
36	MP1C	Z	0	0	0	%100
37	MP2A	X	11.175	11.175	0	%100
38	MP2A	Z	0	0	0	%100
39	MP2B	X	11.175	11.175	0	%100
40	MP2B	Z	0	0	0	%100
41	MP2C	X	11.175	11.175	0	%100
42	MP2C	Z	0	0	0	%100
43	MP3A	X	9.232	9.232	0	%100
44	MP3A	Z	0	0	0	%100
45	MP3B	X	9.232	9.232	0	%100
46	MP3B	Z	0	0	0	%100
47	MP3C	X	9.232	9.232	0	%100
48	MP3C	Z	0	0	0	%100
49	MP4A	X	9.232	9.232	0	%100
50	MP4A	Z	0	0	0	%100
51	MP4B	X	9.232	9.232	0	%100
52	MP4B	Z	0	0	0	%100
53	MP4C	X	9.232	9.232	0	%100
54	MP4C	Z	0	0	0	%100
55	OVP1	X	9.466	9.466	0	%100
56	OVP1	Z	0	0	0	%100
57	M59	X	0	0	0	%100
58	M59	Z	0	0	0	%100
59	M60	X	6.924	6.924	0	%100
60	M60	Z	0	0	0	%100
61	M61	X	6.924	6.924	0	%100
62	M61	Z	0	0	0	%100
63	M62	X	11.02	11.02	0	%100
64	M62	Z	0	0	0	%100
65	M63	X	11.02	11.02	0	%100
66	M63	Z	0	0	0	%100
67	M64	X	7.287	7.287	0	%100
68	M64	Z	0	0	0	%100
69	M65	X	15.693	15.693	0	%100
70	M65	Z	0	0	0	%100
71	M66	X	15.693	15.693	0	%100
72	M66	Z	0	0	0	%100
73	M67	X	7.287	7.287	0	%100
74	M67	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	4.208	4.208	0	%100
2	M5	Z	2.429	2.429	0	%100
3	M7	X	4.208	4.208	0	%100
4	M7	Z	2.429	2.429	0	%100
5	M10A	X	10.555	10.555	0	%100
6	M10A	Z	6.094	6.094	0	%100
7	M12	X	9.387	9.387	0	%100
8	M12	Z	5.42	5.42	0	%100
9	M13	X	7.177	7.177	0	%100
10	M13	Z	4.143	4.143	0	%100
11	M24A	X	10.555	10.555	0	%100
12	M24A	Z	6.094	6.094	0	%100
13	M24B	X	9.387	9.387	0	%100
14	M24B	Z	5.42	5.42	0	%100
15	M25A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
16	M25A	Z	0	0	0	%100
17	M25B	X	7.177	7.177	0	%100
18	M25B	Z	4.143	4.143	0	%100
19	M26	X	4.208	4.208	0	%100
20	M26	Z	2.429	2.429	0	%100
21	M27	X	4.208	4.208	0	%100
22	M27	Z	2.429	2.429	0	%100
23	M28	X	16.831	16.831	0	%100
24	M28	Z	9.718	9.718	0	%100
25	M28A	X	0	0	0	%100
26	M28A	Z	0	0	0	%100
27	M29	X	16.831	16.831	0	%100
28	M29	Z	9.718	9.718	0	%100
29	M29A	X	0	0	0	%100
30	M29A	Z	0	0	0	%100
31	MP1A	X	7.995	7.995	0	%100
32	MP1A	Z	4.616	4.616	0	%100
33	MP1B	X	7.995	7.995	0	%100
34	MP1B	Z	4.616	4.616	0	%100
35	MP1C	X	7.995	7.995	0	%100
36	MP1C	Z	4.616	4.616	0	%100
37	MP2A	X	9.678	9.678	0	%100
38	MP2A	Z	5.588	5.588	0	%100
39	MP2B	X	9.678	9.678	0	%100
40	MP2B	Z	5.588	5.588	0	%100
41	MP2C	X	9.678	9.678	0	%100
42	MP2C	Z	5.588	5.588	0	%100
43	MP3A	X	7.995	7.995	0	%100
44	MP3A	Z	4.616	4.616	0	%100
45	MP3B	X	7.995	7.995	0	%100
46	MP3B	Z	4.616	4.616	0	%100
47	MP3C	X	7.995	7.995	0	%100
48	MP3C	Z	4.616	4.616	0	%100
49	MP4A	X	7.995	7.995	0	%100
50	MP4A	Z	4.616	4.616	0	%100
51	MP4B	X	7.995	7.995	0	%100
52	MP4B	Z	4.616	4.616	0	%100
53	MP4C	X	7.995	7.995	0	%100
54	MP4C	Z	4.616	4.616	0	%100
55	OVP1	X	8.198	8.198	0	%100
56	OVP1	Z	4.733	4.733	0	%100
57	M59	X	1.999	1.999	0	%100
58	M59	Z	1.154	1.154	0	%100
59	M60	X	1.999	1.999	0	%100
60	M60	Z	1.154	1.154	0	%100
61	M61	X	7.995	7.995	0	%100
62	M61	Z	4.616	4.616	0	%100
63	M62	X	13.319	13.319	0	%100
64	M62	Z	7.69	7.69	0	%100
65	M63	X	6.04	6.04	0	%100
66	M63	Z	3.487	3.487	0	%100
67	M64	X	6.04	6.04	0	%100
68	M64	Z	3.487	3.487	0	%100
69	M65	X	13.319	13.319	0	%100
70	M65	Z	7.69	7.69	0	%100
71	M66	X	10.086	10.086	0	%100
72	M66	Z	5.823	5.823	0	%100
73	M67	X	10.086	10.086	0	%100
74	M67	Z	5.823	5.823	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	7.288	7.288	0	%100
2	M5	Z	12.624	12.624	0	%100
3	M7	X	7.288	7.288	0	%100
4	M7	Z	12.624	12.624	0	%100
5	M10A	X	2.031	2.031	0	%100
6	M10A	Z	3.518	3.518	0	%100
7	M12	X	1.807	1.807	0	%100
8	M12	Z	3.129	3.129	0	%100
9	M13	X	1.381	1.381	0	%100
10	M13	Z	2.392	2.392	0	%100
11	M24A	X	8.125	8.125	0	%100
12	M24A	Z	14.073	14.073	0	%100
13	M24B	X	7.226	7.226	0	%100
14	M24B	Z	12.516	12.516	0	%100
15	M25A	X	2.031	2.031	0	%100
16	M25A	Z	3.518	3.518	0	%100
17	M25B	X	5.525	5.525	0	%100
18	M25B	Z	9.569	9.569	0	%100
19	M26	X	0	0	0	%100
20	M26	Z	0	0	0	%100
21	M27	X	0	0	0	%100
22	M27	Z	0	0	0	%100
23	M28	X	7.288	7.288	0	%100
24	M28	Z	12.624	12.624	0	%100
25	M28A	X	1.807	1.807	0	%100
26	M28A	Z	3.129	3.129	0	%100
27	M29	X	7.288	7.288	0	%100
28	M29	Z	12.624	12.624	0	%100
29	M29A	X	1.381	1.381	0	%100
30	M29A	Z	2.392	2.392	0	%100
31	MP1A	X	4.616	4.616	0	%100
32	MP1A	Z	7.995	7.995	0	%100
33	MP1B	X	4.616	4.616	0	%100
34	MP1B	Z	7.995	7.995	0	%100
35	MP1C	X	4.616	4.616	0	%100
36	MP1C	Z	7.995	7.995	0	%100
37	MP2A	X	5.588	5.588	0	%100
38	MP2A	Z	9.678	9.678	0	%100
39	MP2B	X	5.588	5.588	0	%100
40	MP2B	Z	9.678	9.678	0	%100
41	MP2C	X	5.588	5.588	0	%100
42	MP2C	Z	9.678	9.678	0	%100
43	MP3A	X	4.616	4.616	0	%100
44	MP3A	Z	7.995	7.995	0	%100
45	MP3B	X	4.616	4.616	0	%100
46	MP3B	Z	7.995	7.995	0	%100
47	MP3C	X	4.616	4.616	0	%100
48	MP3C	Z	7.995	7.995	0	%100
49	MP4A	X	4.616	4.616	0	%100
50	MP4A	Z	7.995	7.995	0	%100
51	MP4B	X	4.616	4.616	0	%100
52	MP4B	Z	7.995	7.995	0	%100
53	MP4C	X	4.616	4.616	0	%100
54	MP4C	Z	7.995	7.995	0	%100
55	OVP1	X	4.733	4.733	0	%100
56	OVP1	Z	8.198	8.198	0	%100
57	M59	X	3.462	3.462	0	%100
58	M59	Z	5.996	5.996	0	%100
59	M60	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
60	M60	Z	0	0	0	%100
61	M61	X	3.462	3.462	0	%100
62	M61	Z	5.996	5.996	0	%100
63	M62	X	7.846	7.846	0	%100
64	M62	Z	13.59	13.59	0	%100
65	M63	X	3.644	3.644	0	%100
66	M63	Z	6.311	6.311	0	%100
67	M64	X	5.51	5.51	0	%100
68	M64	Z	9.543	9.543	0	%100
69	M65	X	5.51	5.51	0	%100
70	M65	Z	9.543	9.543	0	%100
71	M66	X	3.644	3.644	0	%100
72	M66	Z	6.311	6.311	0	%100
73	M67	X	7.846	7.846	0	%100
74	M67	Z	13.59	13.59	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	0	0	0	%100
2	M5	Z	19.435	19.435	0	%100
3	M7	X	0	0	0	%100
4	M7	Z	19.435	19.435	0	%100
5	M10A	X	0	0	0	%100
6	M10A	Z	0	0	0	%100
7	M12	X	0	0	0	%100
8	M12	Z	0	0	0	%100
9	M13	X	0	0	0	%100
10	M13	Z	0	0	0	%100
11	M24A	X	0	0	0	%100
12	M24A	Z	12.188	12.188	0	%100
13	M24B	X	0	0	0	%100
14	M24B	Z	10.84	10.84	0	%100
15	M25A	X	0	0	0	%100
16	M25A	Z	12.188	12.188	0	%100
17	M25B	X	0	0	0	%100
18	M25B	Z	8.287	8.287	0	%100
19	M26	X	0	0	0	%100
20	M26	Z	4.859	4.859	0	%100
21	M27	X	0	0	0	%100
22	M27	Z	4.859	4.859	0	%100
23	M28	X	0	0	0	%100
24	M28	Z	4.859	4.859	0	%100
25	M28A	X	0	0	0	%100
26	M28A	Z	10.84	10.84	0	%100
27	M29	X	0	0	0	%100
28	M29	Z	4.859	4.859	0	%100
29	M29A	X	0	0	0	%100
30	M29A	Z	8.287	8.287	0	%100
31	MP1A	X	0	0	0	%100
32	MP1A	Z	9.232	9.232	0	%100
33	MP1B	X	0	0	0	%100
34	MP1B	Z	9.232	9.232	0	%100
35	MP1C	X	0	0	0	%100
36	MP1C	Z	9.232	9.232	0	%100
37	MP2A	X	0	0	0	%100
38	MP2A	Z	11.175	11.175	0	%100
39	MP2B	X	0	0	0	%100
40	MP2B	Z	11.175	11.175	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
41	MP2C	X	0	0	0	%100
42	MP2C	Z	11.175	11.175	0	%100
43	MP3A	X	0	0	0	%100
44	MP3A	Z	9.232	9.232	0	%100
45	MP3B	X	0	0	0	%100
46	MP3B	Z	9.232	9.232	0	%100
47	MP3C	X	0	0	0	%100
48	MP3C	Z	9.232	9.232	0	%100
49	MP4A	X	0	0	0	%100
50	MP4A	Z	9.232	9.232	0	%100
51	MP4B	X	0	0	0	%100
52	MP4B	Z	9.232	9.232	0	%100
53	MP4C	X	0	0	0	%100
54	MP4C	Z	9.232	9.232	0	%100
55	OVP1	X	0	0	0	%100
56	OVP1	Z	9.466	9.466	0	%100
57	M59	X	0	0	0	%100
58	M59	Z	9.232	9.232	0	%100
59	M60	X	0	0	0	%100
60	M60	Z	2.308	2.308	0	%100
61	M61	X	0	0	0	%100
62	M61	Z	2.308	2.308	0	%100
63	M62	X	0	0	0	%100
64	M62	Z	11.647	11.647	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	11.647	11.647	0	%100
67	M64	X	0	0	0	%100
68	M64	Z	15.379	15.379	0	%100
69	M65	X	0	0	0	%100
70	M65	Z	6.974	6.974	0	%100
71	M66	X	0	0	0	%100
72	M66	Z	6.974	6.974	0	%100
73	M67	X	0	0	0	%100
74	M67	Z	15.379	15.379	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	-7.288	-7.288	0	%100
2	M5	Z	12.624	12.624	0	%100
3	M7	X	-7.288	-7.288	0	%100
4	M7	Z	12.624	12.624	0	%100
5	M10A	X	-2.031	-2.031	0	%100
6	M10A	Z	3.518	3.518	0	%100
7	M12	X	-1.807	-1.807	0	%100
8	M12	Z	3.129	3.129	0	%100
9	M13	X	-1.381	-1.381	0	%100
10	M13	Z	2.392	2.392	0	%100
11	M24A	X	-2.031	-2.031	0	%100
12	M24A	Z	3.518	3.518	0	%100
13	M24B	X	-1.807	-1.807	0	%100
14	M24B	Z	3.129	3.129	0	%100
15	M25A	X	-8.125	-8.125	0	%100
16	M25A	Z	14.073	14.073	0	%100
17	M25B	X	-1.381	-1.381	0	%100
18	M25B	Z	2.392	2.392	0	%100
19	M26	X	-7.288	-7.288	0	%100
20	M26	Z	12.624	12.624	0	%100
21	M27	X	-7.288	-7.288	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
22	M27	Z	12.624	12.624	0	%100
23	M28	X	0	0	0	%100
24	M28	Z	0	0	0	%100
25	M28A	X	-7.226	-7.226	0	%100
26	M28A	Z	12.516	12.516	0	%100
27	M29	X	0	0	0	%100
28	M29	Z	0	0	0	%100
29	M29A	X	-5.525	-5.525	0	%100
30	M29A	Z	9.569	9.569	0	%100
31	MP1A	X	-4.616	-4.616	0	%100
32	MP1A	Z	7.995	7.995	0	%100
33	MP1B	X	-4.616	-4.616	0	%100
34	MP1B	Z	7.995	7.995	0	%100
35	MP1C	X	-4.616	-4.616	0	%100
36	MP1C	Z	7.995	7.995	0	%100
37	MP2A	X	-5.588	-5.588	0	%100
38	MP2A	Z	9.678	9.678	0	%100
39	MP2B	X	-5.588	-5.588	0	%100
40	MP2B	Z	9.678	9.678	0	%100
41	MP2C	X	-5.588	-5.588	0	%100
42	MP2C	Z	9.678	9.678	0	%100
43	MP3A	X	-4.616	-4.616	0	%100
44	MP3A	Z	7.995	7.995	0	%100
45	MP3B	X	-4.616	-4.616	0	%100
46	MP3B	Z	7.995	7.995	0	%100
47	MP3C	X	-4.616	-4.616	0	%100
48	MP3C	Z	7.995	7.995	0	%100
49	MP4A	X	-4.616	-4.616	0	%100
50	MP4A	Z	7.995	7.995	0	%100
51	MP4B	X	-4.616	-4.616	0	%100
52	MP4B	Z	7.995	7.995	0	%100
53	MP4C	X	-4.616	-4.616	0	%100
54	MP4C	Z	7.995	7.995	0	%100
55	OVP1	X	-4.733	-4.733	0	%100
56	OVP1	Z	8.198	8.198	0	%100
57	M59	X	-3.462	-3.462	0	%100
58	M59	Z	5.996	5.996	0	%100
59	M60	X	-3.462	-3.462	0	%100
60	M60	Z	5.996	5.996	0	%100
61	M61	X	0	0	0	%100
62	M61	Z	0	0	0	%100
63	M62	X	-3.644	-3.644	0	%100
64	M62	Z	6.311	6.311	0	%100
65	M63	X	-7.846	-7.846	0	%100
66	M63	Z	13.59	13.59	0	%100
67	M64	X	-7.846	-7.846	0	%100
68	M64	Z	13.59	13.59	0	%100
69	M65	X	-3.644	-3.644	0	%100
70	M65	Z	6.311	6.311	0	%100
71	M66	X	-5.51	-5.51	0	%100
72	M66	Z	9.543	9.543	0	%100
73	M67	X	-5.51	-5.51	0	%100
74	M67	Z	9.543	9.543	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	-4.208	-4.208	0	%100
2	M5	Z	2.429	2.429	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
3	M7	X	-4.208	-4.208	0	%100
4	M7	Z	2.429	2.429	0	%100
5	M10A	X	-10.555	-10.555	0	%100
6	M10A	Z	6.094	6.094	0	%100
7	M12	X	-9.387	-9.387	0	%100
8	M12	Z	5.42	5.42	0	%100
9	M13	X	-7.177	-7.177	0	%100
10	M13	Z	4.143	4.143	0	%100
11	M24A	X	0	0	0	%100
12	M24A	Z	0	0	0	%100
13	M24B	X	0	0	0	%100
14	M24B	Z	0	0	0	%100
15	M25A	X	-10.555	-10.555	0	%100
16	M25A	Z	6.094	6.094	0	%100
17	M25B	X	0	0	0	%100
18	M25B	Z	0	0	0	%100
19	M26	X	-16.831	-16.831	0	%100
20	M26	Z	9.718	9.718	0	%100
21	M27	X	-16.831	-16.831	0	%100
22	M27	Z	9.718	9.718	0	%100
23	M28	X	-4.208	-4.208	0	%100
24	M28	Z	2.429	2.429	0	%100
25	M28A	X	-9.387	-9.387	0	%100
26	M28A	Z	5.42	5.42	0	%100
27	M29	X	-4.208	-4.208	0	%100
28	M29	Z	2.429	2.429	0	%100
29	M29A	X	-7.177	-7.177	0	%100
30	M29A	Z	4.143	4.143	0	%100
31	MP1A	X	-7.995	-7.995	0	%100
32	MP1A	Z	4.616	4.616	0	%100
33	MP1B	X	-7.995	-7.995	0	%100
34	MP1B	Z	4.616	4.616	0	%100
35	MP1C	X	-7.995	-7.995	0	%100
36	MP1C	Z	4.616	4.616	0	%100
37	MP2A	X	-9.678	-9.678	0	%100
38	MP2A	Z	5.588	5.588	0	%100
39	MP2B	X	-9.678	-9.678	0	%100
40	MP2B	Z	5.588	5.588	0	%100
41	MP2C	X	-9.678	-9.678	0	%100
42	MP2C	Z	5.588	5.588	0	%100
43	MP3A	X	-7.995	-7.995	0	%100
44	MP3A	Z	4.616	4.616	0	%100
45	MP3B	X	-7.995	-7.995	0	%100
46	MP3B	Z	4.616	4.616	0	%100
47	MP3C	X	-7.995	-7.995	0	%100
48	MP3C	Z	4.616	4.616	0	%100
49	MP4A	X	-7.995	-7.995	0	%100
50	MP4A	Z	4.616	4.616	0	%100
51	MP4B	X	-7.995	-7.995	0	%100
52	MP4B	Z	4.616	4.616	0	%100
53	MP4C	X	-7.995	-7.995	0	%100
54	MP4C	Z	4.616	4.616	0	%100
55	OVP1	X	-8.198	-8.198	0	%100
56	OVP1	Z	4.733	4.733	0	%100
57	M59	X	-1.999	-1.999	0	%100
58	M59	Z	1.154	1.154	0	%100
59	M60	X	-7.995	-7.995	0	%100
60	M60	Z	4.616	4.616	0	%100
61	M61	X	-1.999	-1.999	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
62	M61	Z	1.154	1.154	0	%100
63	M62	X	-6.04	-6.04	0	%100
64	M62	Z	3.487	3.487	0	%100
65	M63	X	-13.319	-13.319	0	%100
66	M63	Z	7.69	7.69	0	%100
67	M64	X	-10.086	-10.086	0	%100
68	M64	Z	5.823	5.823	0	%100
69	M65	X	-10.086	-10.086	0	%100
70	M65	Z	5.823	5.823	0	%100
71	M66	X	-13.319	-13.319	0	%100
72	M66	Z	7.69	7.69	0	%100
73	M67	X	-6.04	-6.04	0	%100
74	M67	Z	3.487	3.487	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	0	0	0	%100
2	M5	Z	0	0	0	%100
3	M7	X	0	0	0	%100
4	M7	Z	0	0	0	%100
5	M10A	X	-16.25	-16.25	0	%100
6	M10A	Z	0	0	0	%100
7	M12	X	-14.453	-14.453	0	%100
8	M12	Z	0	0	0	%100
9	M13	X	-11.049	-11.049	0	%100
10	M13	Z	0	0	0	%100
11	M24A	X	-4.063	-4.063	0	%100
12	M24A	Z	0	0	0	%100
13	M24B	X	-3.613	-3.613	0	%100
14	M24B	Z	0	0	0	%100
15	M25A	X	-4.063	-4.063	0	%100
16	M25A	Z	0	0	0	%100
17	M25B	X	-2.762	-2.762	0	%100
18	M25B	Z	0	0	0	%100
19	M26	X	-14.576	-14.576	0	%100
20	M26	Z	0	0	0	%100
21	M27	X	-14.576	-14.576	0	%100
22	M27	Z	0	0	0	%100
23	M28	X	-14.576	-14.576	0	%100
24	M28	Z	0	0	0	%100
25	M28A	X	-3.613	-3.613	0	%100
26	M28A	Z	0	0	0	%100
27	M29	X	-14.576	-14.576	0	%100
28	M29	Z	0	0	0	%100
29	M29A	X	-2.762	-2.762	0	%100
30	M29A	Z	0	0	0	%100
31	MP1A	X	-9.232	-9.232	0	%100
32	MP1A	Z	0	0	0	%100
33	MP1B	X	-9.232	-9.232	0	%100
34	MP1B	Z	0	0	0	%100
35	MP1C	X	-9.232	-9.232	0	%100
36	MP1C	Z	0	0	0	%100
37	MP2A	X	-11.175	-11.175	0	%100
38	MP2A	Z	0	0	0	%100
39	MP2B	X	-11.175	-11.175	0	%100
40	MP2B	Z	0	0	0	%100
41	MP2C	X	-11.175	-11.175	0	%100
42	MP2C	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
43	MP3A	X	-9.232	-9.232	0	%100
44	MP3A	Z	0	0	0	%100
45	MP3B	X	-9.232	-9.232	0	%100
46	MP3B	Z	0	0	0	%100
47	MP3C	X	-9.232	-9.232	0	%100
48	MP3C	Z	0	0	0	%100
49	MP4A	X	-9.232	-9.232	0	%100
50	MP4A	Z	0	0	0	%100
51	MP4B	X	-9.232	-9.232	0	%100
52	MP4B	Z	0	0	0	%100
53	MP4C	X	-9.232	-9.232	0	%100
54	MP4C	Z	0	0	0	%100
55	OVP1	X	-9.466	-9.466	0	%100
56	OVP1	Z	0	0	0	%100
57	M59	X	0	0	0	%100
58	M59	Z	0	0	0	%100
59	M60	X	-6.924	-6.924	0	%100
60	M60	Z	0	0	0	%100
61	M61	X	-6.924	-6.924	0	%100
62	M61	Z	0	0	0	%100
63	M62	X	-11.02	-11.02	0	%100
64	M62	Z	0	0	0	%100
65	M63	X	-11.02	-11.02	0	%100
66	M63	Z	0	0	0	%100
67	M64	X	-7.287	-7.287	0	%100
68	M64	Z	0	0	0	%100
69	M65	X	-15.693	-15.693	0	%100
70	M65	Z	0	0	0	%100
71	M66	X	-15.693	-15.693	0	%100
72	M66	Z	0	0	0	%100
73	M67	X	-7.287	-7.287	0	%100
74	M67	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	-4.208	-4.208	0	%100
2	M5	Z	-2.429	-2.429	0	%100
3	M7	X	-4.208	-4.208	0	%100
4	M7	Z	-2.429	-2.429	0	%100
5	M10A	X	-10.555	-10.555	0	%100
6	M10A	Z	-6.094	-6.094	0	%100
7	M12	X	-9.387	-9.387	0	%100
8	M12	Z	-5.42	-5.42	0	%100
9	M13	X	-7.177	-7.177	0	%100
10	M13	Z	-4.143	-4.143	0	%100
11	M24A	X	-10.555	-10.555	0	%100
12	M24A	Z	-6.094	-6.094	0	%100
13	M24B	X	-9.387	-9.387	0	%100
14	M24B	Z	-5.42	-5.42	0	%100
15	M25A	X	0	0	0	%100
16	M25A	Z	0	0	0	%100
17	M25B	X	-7.177	-7.177	0	%100
18	M25B	Z	-4.143	-4.143	0	%100
19	M26	X	-4.208	-4.208	0	%100
20	M26	Z	-2.429	-2.429	0	%100
21	M27	X	-4.208	-4.208	0	%100
22	M27	Z	-2.429	-2.429	0	%100
23	M28	X	-16.831	-16.831	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
24	M28	Z	-9.718	-9.718	0	%100
25	M28A	X	0	0	0	%100
26	M28A	Z	0	0	0	%100
27	M29	X	-16.831	-16.831	0	%100
28	M29	Z	-9.718	-9.718	0	%100
29	M29A	X	0	0	0	%100
30	M29A	Z	0	0	0	%100
31	MP1A	X	-7.995	-7.995	0	%100
32	MP1A	Z	-4.616	-4.616	0	%100
33	MP1B	X	-7.995	-7.995	0	%100
34	MP1B	Z	-4.616	-4.616	0	%100
35	MP1C	X	-7.995	-7.995	0	%100
36	MP1C	Z	-4.616	-4.616	0	%100
37	MP2A	X	-9.678	-9.678	0	%100
38	MP2A	Z	-5.588	-5.588	0	%100
39	MP2B	X	-9.678	-9.678	0	%100
40	MP2B	Z	-5.588	-5.588	0	%100
41	MP2C	X	-9.678	-9.678	0	%100
42	MP2C	Z	-5.588	-5.588	0	%100
43	MP3A	X	-7.995	-7.995	0	%100
44	MP3A	Z	-4.616	-4.616	0	%100
45	MP3B	X	-7.995	-7.995	0	%100
46	MP3B	Z	-4.616	-4.616	0	%100
47	MP3C	X	-7.995	-7.995	0	%100
48	MP3C	Z	-4.616	-4.616	0	%100
49	MP4A	X	-7.995	-7.995	0	%100
50	MP4A	Z	-4.616	-4.616	0	%100
51	MP4B	X	-7.995	-7.995	0	%100
52	MP4B	Z	-4.616	-4.616	0	%100
53	MP4C	X	-7.995	-7.995	0	%100
54	MP4C	Z	-4.616	-4.616	0	%100
55	OVP1	X	-8.198	-8.198	0	%100
56	OVP1	Z	-4.733	-4.733	0	%100
57	M59	X	-1.999	-1.999	0	%100
58	M59	Z	-1.154	-1.154	0	%100
59	M60	X	-1.999	-1.999	0	%100
60	M60	Z	-1.154	-1.154	0	%100
61	M61	X	-7.995	-7.995	0	%100
62	M61	Z	-4.616	-4.616	0	%100
63	M62	X	-13.319	-13.319	0	%100
64	M62	Z	-7.69	-7.69	0	%100
65	M63	X	-6.04	-6.04	0	%100
66	M63	Z	-3.487	-3.487	0	%100
67	M64	X	-6.04	-6.04	0	%100
68	M64	Z	-3.487	-3.487	0	%100
69	M65	X	-13.319	-13.319	0	%100
70	M65	Z	-7.69	-7.69	0	%100
71	M66	X	-10.086	-10.086	0	%100
72	M66	Z	-5.823	-5.823	0	%100
73	M67	X	-10.086	-10.086	0	%100
74	M67	Z	-5.823	-5.823	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	-7.288	-7.288	0	%100
2	M5	Z	-12.624	-12.624	0	%100
3	M7	X	-7.288	-7.288	0	%100
4	M7	Z	-12.624	-12.624	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
5	M10A	X	-2.031	-2.031	0	%100
6	M10A	Z	-3.518	-3.518	0	%100
7	M12	X	-1.807	-1.807	0	%100
8	M12	Z	-3.129	-3.129	0	%100
9	M13	X	-1.381	-1.381	0	%100
10	M13	Z	-2.392	-2.392	0	%100
11	M24A	X	-8.125	-8.125	0	%100
12	M24A	Z	-14.073	-14.073	0	%100
13	M24B	X	-7.226	-7.226	0	%100
14	M24B	Z	-12.516	-12.516	0	%100
15	M25A	X	-2.031	-2.031	0	%100
16	M25A	Z	-3.518	-3.518	0	%100
17	M25B	X	-5.525	-5.525	0	%100
18	M25B	Z	-9.569	-9.569	0	%100
19	M26	X	0	0	0	%100
20	M26	Z	0	0	0	%100
21	M27	X	0	0	0	%100
22	M27	Z	0	0	0	%100
23	M28	X	-7.288	-7.288	0	%100
24	M28	Z	-12.624	-12.624	0	%100
25	M28A	X	-1.807	-1.807	0	%100
26	M28A	Z	-3.129	-3.129	0	%100
27	M29	X	-7.288	-7.288	0	%100
28	M29	Z	-12.624	-12.624	0	%100
29	M29A	X	-1.381	-1.381	0	%100
30	M29A	Z	-2.392	-2.392	0	%100
31	MP1A	X	-4.616	-4.616	0	%100
32	MP1A	Z	-7.995	-7.995	0	%100
33	MP1B	X	-4.616	-4.616	0	%100
34	MP1B	Z	-7.995	-7.995	0	%100
35	MP1C	X	-4.616	-4.616	0	%100
36	MP1C	Z	-7.995	-7.995	0	%100
37	MP2A	X	-5.588	-5.588	0	%100
38	MP2A	Z	-9.678	-9.678	0	%100
39	MP2B	X	-5.588	-5.588	0	%100
40	MP2B	Z	-9.678	-9.678	0	%100
41	MP2C	X	-5.588	-5.588	0	%100
42	MP2C	Z	-9.678	-9.678	0	%100
43	MP3A	X	-4.616	-4.616	0	%100
44	MP3A	Z	-7.995	-7.995	0	%100
45	MP3B	X	-4.616	-4.616	0	%100
46	MP3B	Z	-7.995	-7.995	0	%100
47	MP3C	X	-4.616	-4.616	0	%100
48	MP3C	Z	-7.995	-7.995	0	%100
49	MP4A	X	-4.616	-4.616	0	%100
50	MP4A	Z	-7.995	-7.995	0	%100
51	MP4B	X	-4.616	-4.616	0	%100
52	MP4B	Z	-7.995	-7.995	0	%100
53	MP4C	X	-4.616	-4.616	0	%100
54	MP4C	Z	-7.995	-7.995	0	%100
55	OVP1	X	-4.733	-4.733	0	%100
56	OVP1	Z	-8.198	-8.198	0	%100
57	M59	X	-3.462	-3.462	0	%100
58	M59	Z	-5.996	-5.996	0	%100
59	M60	X	0	0	0	%100
60	M60	Z	0	0	0	%100
61	M61	X	-3.462	-3.462	0	%100
62	M61	Z	-5.996	-5.996	0	%100
63	M62	X	-7.846	-7.846	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
64	M62	Z	-13.59	-13.59	0	%100
65	M63	X	-3.644	-3.644	0	%100
66	M63	Z	-6.311	-6.311	0	%100
67	M64	X	-5.51	-5.51	0	%100
68	M64	Z	-9.543	-9.543	0	%100
69	M65	X	-5.51	-5.51	0	%100
70	M65	Z	-9.543	-9.543	0	%100
71	M66	X	-3.644	-3.644	0	%100
72	M66	Z	-6.311	-6.311	0	%100
73	M67	X	-7.846	-7.846	0	%100
74	M67	Z	-13.59	-13.59	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	0	0	0	%100
2	M5	Z	-4.873	-4.873	0	%100
3	M7	X	0	0	0	%100
4	M7	Z	-4.873	-4.873	0	%100
5	M10A	X	0	0	0	%100
6	M10A	Z	0	0	0	%100
7	M12	X	0	0	0	%100
8	M12	Z	0	0	0	%100
9	M13	X	0	0	0	%100
10	M13	Z	0	0	0	%100
11	M24A	X	0	0	0	%100
12	M24A	Z	-3.146	-3.146	0	%100
13	M24B	X	0	0	0	%100
14	M24B	Z	-2.708	-2.708	0	%100
15	M25A	X	0	0	0	%100
16	M25A	Z	-3.146	-3.146	0	%100
17	M25B	X	0	0	0	%100
18	M25B	Z	-2.145	-2.145	0	%100
19	M26	X	0	0	0	%100
20	M26	Z	-1.218	-1.218	0	%100
21	M27	X	0	0	0	%100
22	M27	Z	-1.218	-1.218	0	%100
23	M28	X	0	0	0	%100
24	M28	Z	-1.218	-1.218	0	%100
25	M28A	X	0	0	0	%100
26	M28A	Z	-2.708	-2.708	0	%100
27	M29	X	0	0	0	%100
28	M29	Z	-1.218	-1.218	0	%100
29	M29A	X	0	0	0	%100
30	M29A	Z	-2.145	-2.145	0	%100
31	MP1A	X	0	0	0	%100
32	MP1A	Z	-3.101	-3.101	0	%100
33	MP1B	X	0	0	0	%100
34	MP1B	Z	-3.101	-3.101	0	%100
35	MP1C	X	0	0	0	%100
36	MP1C	Z	-3.101	-3.101	0	%100
37	MP2A	X	0	0	0	%100
38	MP2A	Z	-3.439	-3.439	0	%100
39	MP2B	X	0	0	0	%100
40	MP2B	Z	-3.439	-3.439	0	%100
41	MP2C	X	0	0	0	%100
42	MP2C	Z	-3.439	-3.439	0	%100
43	MP3A	X	0	0	0	%100
44	MP3A	Z	-3.101	-3.101	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
45	MP3B	X	0	0	0	%100
46	MP3B	Z	-3.101	-3.101	0	%100
47	MP3C	X	0	0	0	%100
48	MP3C	Z	-3.101	-3.101	0	%100
49	MP4A	X	0	0	0	%100
50	MP4A	Z	-3.101	-3.101	0	%100
51	MP4B	X	0	0	0	%100
52	MP4B	Z	-3.101	-3.101	0	%100
53	MP4C	X	0	0	0	%100
54	MP4C	Z	-3.101	-3.101	0	%100
55	OVP1	X	0	0	0	%100
56	OVP1	Z	-2.823	-2.823	0	%100
57	M59	X	0	0	0	%100
58	M59	Z	-3.101	-3.101	0	%100
59	M60	X	0	0	0	%100
60	M60	Z	-.775	-.775	0	%100
61	M61	X	0	0	0	%100
62	M61	Z	-.775	-.775	0	%100
63	M62	X	0	0	0	%100
64	M62	Z	-3.1	-3.1	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	-3.1	-3.1	0	%100
67	M64	X	0	0	0	%100
68	M64	Z	-4.093	-4.093	0	%100
69	M65	X	0	0	0	%100
70	M65	Z	-1.856	-1.856	0	%100
71	M66	X	0	0	0	%100
72	M66	Z	-1.856	-1.856	0	%100
73	M67	X	0	0	0	%100
74	M67	Z	-4.093	-4.093	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	1.827	1.827	0	%100
2	M5	Z	-3.165	-3.165	0	%100
3	M7	X	1.827	1.827	0	%100
4	M7	Z	-3.165	-3.165	0	%100
5	M10A	X	.524	.524	0	%100
6	M10A	Z	-.908	-.908	0	%100
7	M12	X	.451	.451	0	%100
8	M12	Z	-.782	-.782	0	%100
9	M13	X	.358	.358	0	%100
10	M13	Z	-.619	-.619	0	%100
11	M24A	X	.524	.524	0	%100
12	M24A	Z	-.908	-.908	0	%100
13	M24B	X	.451	.451	0	%100
14	M24B	Z	-.782	-.782	0	%100
15	M25A	X	2.097	2.097	0	%100
16	M25A	Z	-3.633	-3.633	0	%100
17	M25B	X	.358	.358	0	%100
18	M25B	Z	-.619	-.619	0	%100
19	M26	X	1.827	1.827	0	%100
20	M26	Z	-3.165	-3.165	0	%100
21	M27	X	1.827	1.827	0	%100
22	M27	Z	-3.165	-3.165	0	%100
23	M28	X	0	0	0	%100
24	M28	Z	0	0	0	%100
25	M28A	X	1.805	1.805	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
26	M28A	Z	-3.127	-3.127	0	%100
27	M29	X	0	0	0	%100
28	M29	Z	0	0	0	%100
29	M29A	X	1.43	1.43	0	%100
30	M29A	Z	-2.477	-2.477	0	%100
31	MP1A	X	1.551	1.551	0	%100
32	MP1A	Z	-2.686	-2.686	0	%100
33	MP1B	X	1.551	1.551	0	%100
34	MP1B	Z	-2.686	-2.686	0	%100
35	MP1C	X	1.551	1.551	0	%100
36	MP1C	Z	-2.686	-2.686	0	%100
37	MP2A	X	1.719	1.719	0	%100
38	MP2A	Z	-2.978	-2.978	0	%100
39	MP2B	X	1.719	1.719	0	%100
40	MP2B	Z	-2.978	-2.978	0	%100
41	MP2C	X	1.719	1.719	0	%100
42	MP2C	Z	-2.978	-2.978	0	%100
43	MP3A	X	1.551	1.551	0	%100
44	MP3A	Z	-2.686	-2.686	0	%100
45	MP3B	X	1.551	1.551	0	%100
46	MP3B	Z	-2.686	-2.686	0	%100
47	MP3C	X	1.551	1.551	0	%100
48	MP3C	Z	-2.686	-2.686	0	%100
49	MP4A	X	1.551	1.551	0	%100
50	MP4A	Z	-2.686	-2.686	0	%100
51	MP4B	X	1.551	1.551	0	%100
52	MP4B	Z	-2.686	-2.686	0	%100
53	MP4C	X	1.551	1.551	0	%100
54	MP4C	Z	-2.686	-2.686	0	%100
55	OVP1	X	1.412	1.412	0	%100
56	OVP1	Z	-2.445	-2.445	0	%100
57	M59	X	1.163	1.163	0	%100
58	M59	Z	-2.014	-2.014	0	%100
59	M60	X	1.163	1.163	0	%100
60	M60	Z	-2.014	-2.014	0	%100
61	M61	X	0	0	0	%100
62	M61	Z	0	0	0	%100
63	M62	X	.97	.97	0	%100
64	M62	Z	-1.68	-1.68	0	%100
65	M63	X	2.088	2.088	0	%100
66	M63	Z	-3.617	-3.617	0	%100
67	M64	X	2.088	2.088	0	%100
68	M64	Z	-3.617	-3.617	0	%100
69	M65	X	.97	.97	0	%100
70	M65	Z	-1.68	-1.68	0	%100
71	M66	X	1.466	1.466	0	%100
72	M66	Z	-2.54	-2.54	0	%100
73	M67	X	1.466	1.466	0	%100
74	M67	Z	-2.54	-2.54	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	1.055	1.055	0	%100
2	M5	Z	-.609	-.609	0	%100
3	M7	X	1.055	1.055	0	%100
4	M7	Z	-.609	-.609	0	%100
5	M10A	X	2.724	2.724	0	%100
6	M10A	Z	-1.573	-1.573	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
7	M12	X	2.345	2.345	0	%100
8	M12	Z	-1.354	-1.354	0	%100
9	M13	X	1.858	1.858	0	%100
10	M13	Z	-1.073	-1.073	0	%100
11	M24A	X	0	0	0	%100
12	M24A	Z	0	0	0	%100
13	M24B	X	0	0	0	%100
14	M24B	Z	0	0	0	%100
15	M25A	X	2.724	2.724	0	%100
16	M25A	Z	-1.573	-1.573	0	%100
17	M25B	X	0	0	0	%100
18	M25B	Z	0	0	0	%100
19	M26	X	4.22	4.22	0	%100
20	M26	Z	-2.436	-2.436	0	%100
21	M27	X	4.22	4.22	0	%100
22	M27	Z	-2.436	-2.436	0	%100
23	M28	X	1.055	1.055	0	%100
24	M28	Z	-.609	-.609	0	%100
25	M28A	X	2.345	2.345	0	%100
26	M28A	Z	-1.354	-1.354	0	%100
27	M29	X	1.055	1.055	0	%100
28	M29	Z	-.609	-.609	0	%100
29	M29A	X	1.858	1.858	0	%100
30	M29A	Z	-1.073	-1.073	0	%100
31	MP1A	X	2.686	2.686	0	%100
32	MP1A	Z	-1.551	-1.551	0	%100
33	MP1B	X	2.686	2.686	0	%100
34	MP1B	Z	-1.551	-1.551	0	%100
35	MP1C	X	2.686	2.686	0	%100
36	MP1C	Z	-1.551	-1.551	0	%100
37	MP2A	X	2.978	2.978	0	%100
38	MP2A	Z	-1.719	-1.719	0	%100
39	MP2B	X	2.978	2.978	0	%100
40	MP2B	Z	-1.719	-1.719	0	%100
41	MP2C	X	2.978	2.978	0	%100
42	MP2C	Z	-1.719	-1.719	0	%100
43	MP3A	X	2.686	2.686	0	%100
44	MP3A	Z	-1.551	-1.551	0	%100
45	MP3B	X	2.686	2.686	0	%100
46	MP3B	Z	-1.551	-1.551	0	%100
47	MP3C	X	2.686	2.686	0	%100
48	MP3C	Z	-1.551	-1.551	0	%100
49	MP4A	X	2.686	2.686	0	%100
50	MP4A	Z	-1.551	-1.551	0	%100
51	MP4B	X	2.686	2.686	0	%100
52	MP4B	Z	-1.551	-1.551	0	%100
53	MP4C	X	2.686	2.686	0	%100
54	MP4C	Z	-1.551	-1.551	0	%100
55	OVP1	X	2.445	2.445	0	%100
56	OVP1	Z	-1.412	-1.412	0	%100
57	M59	X	.671	.671	0	%100
58	M59	Z	-.388	-.388	0	%100
59	M60	X	2.686	2.686	0	%100
60	M60	Z	-1.551	-1.551	0	%100
61	M61	X	.671	.671	0	%100
62	M61	Z	-.388	-.388	0	%100
63	M62	X	1.607	1.607	0	%100
64	M62	Z	-.928	-.928	0	%100
65	M63	X	3.545	3.545	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
66	M63	Z	-2.047	-2.047	0	%100
67	M64	X	2.684	2.684	0	%100
68	M64	Z	-1.55	-1.55	0	%100
69	M65	X	2.684	2.684	0	%100
70	M65	Z	-1.55	-1.55	0	%100
71	M66	X	3.545	3.545	0	%100
72	M66	Z	-2.047	-2.047	0	%100
73	M67	X	1.607	1.607	0	%100
74	M67	Z	-.928	-.928	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	0	0	0	%100
2	M5	Z	0	0	0	%100
3	M7	X	0	0	0	%100
4	M7	Z	0	0	0	%100
5	M10A	X	4.195	4.195	0	%100
6	M10A	Z	0	0	0	%100
7	M12	X	3.611	3.611	0	%100
8	M12	Z	0	0	0	%100
9	M13	X	2.861	2.861	0	%100
10	M13	Z	0	0	0	%100
11	M24A	X	1.049	1.049	0	%100
12	M24A	Z	0	0	0	%100
13	M24B	X	.903	.903	0	%100
14	M24B	Z	0	0	0	%100
15	M25A	X	1.049	1.049	0	%100
16	M25A	Z	0	0	0	%100
17	M25B	X	.715	.715	0	%100
18	M25B	Z	0	0	0	%100
19	M26	X	3.655	3.655	0	%100
20	M26	Z	0	0	0	%100
21	M27	X	3.655	3.655	0	%100
22	M27	Z	0	0	0	%100
23	M28	X	3.655	3.655	0	%100
24	M28	Z	0	0	0	%100
25	M28A	X	.903	.903	0	%100
26	M28A	Z	0	0	0	%100
27	M29	X	3.655	3.655	0	%100
28	M29	Z	0	0	0	%100
29	M29A	X	.715	.715	0	%100
30	M29A	Z	0	0	0	%100
31	MP1A	X	3.101	3.101	0	%100
32	MP1A	Z	0	0	0	%100
33	MP1B	X	3.101	3.101	0	%100
34	MP1B	Z	0	0	0	%100
35	MP1C	X	3.101	3.101	0	%100
36	MP1C	Z	0	0	0	%100
37	MP2A	X	3.439	3.439	0	%100
38	MP2A	Z	0	0	0	%100
39	MP2B	X	3.439	3.439	0	%100
40	MP2B	Z	0	0	0	%100
41	MP2C	X	3.439	3.439	0	%100
42	MP2C	Z	0	0	0	%100
43	MP3A	X	3.101	3.101	0	%100
44	MP3A	Z	0	0	0	%100
45	MP3B	X	3.101	3.101	0	%100
46	MP3B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
47	MP3C	X	3.101	3.101	0	%100
48	MP3C	Z	0	0	0	%100
49	MP4A	X	3.101	3.101	0	%100
50	MP4A	Z	0	0	0	%100
51	MP4B	X	3.101	3.101	0	%100
52	MP4B	Z	0	0	0	%100
53	MP4C	X	3.101	3.101	0	%100
54	MP4C	Z	0	0	0	%100
55	OVP1	X	2.823	2.823	0	%100
56	OVP1	Z	0	0	0	%100
57	M59	X	0	0	0	%100
58	M59	Z	0	0	0	%100
59	M60	X	2.326	2.326	0	%100
60	M60	Z	0	0	0	%100
61	M61	X	2.326	2.326	0	%100
62	M61	Z	0	0	0	%100
63	M62	X	2.933	2.933	0	%100
64	M62	Z	0	0	0	%100
65	M63	X	2.933	2.933	0	%100
66	M63	Z	0	0	0	%100
67	M64	X	1.939	1.939	0	%100
68	M64	Z	0	0	0	%100
69	M65	X	4.176	4.176	0	%100
70	M65	Z	0	0	0	%100
71	M66	X	4.176	4.176	0	%100
72	M66	Z	0	0	0	%100
73	M67	X	1.939	1.939	0	%100
74	M67	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	1.055	1.055	0	%100
2	M5	Z	.609	.609	0	%100
3	M7	X	1.055	1.055	0	%100
4	M7	Z	.609	.609	0	%100
5	M10A	X	2.724	2.724	0	%100
6	M10A	Z	1.573	1.573	0	%100
7	M12	X	2.345	2.345	0	%100
8	M12	Z	1.354	1.354	0	%100
9	M13	X	1.858	1.858	0	%100
10	M13	Z	1.073	1.073	0	%100
11	M24A	X	2.724	2.724	0	%100
12	M24A	Z	1.573	1.573	0	%100
13	M24B	X	2.345	2.345	0	%100
14	M24B	Z	1.354	1.354	0	%100
15	M25A	X	0	0	0	%100
16	M25A	Z	0	0	0	%100
17	M25B	X	1.858	1.858	0	%100
18	M25B	Z	1.073	1.073	0	%100
19	M26	X	1.055	1.055	0	%100
20	M26	Z	.609	.609	0	%100
21	M27	X	1.055	1.055	0	%100
22	M27	Z	.609	.609	0	%100
23	M28	X	4.22	4.22	0	%100
24	M28	Z	2.436	2.436	0	%100
25	M28A	X	0	0	0	%100
26	M28A	Z	0	0	0	%100
27	M29	X	4.22	4.22	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
28	M29	Z	2.436	2.436	0	%100
29	M29A	X	0	0	0	%100
30	M29A	Z	0	0	0	%100
31	MP1A	X	2.686	2.686	0	%100
32	MP1A	Z	1.551	1.551	0	%100
33	MP1B	X	2.686	2.686	0	%100
34	MP1B	Z	1.551	1.551	0	%100
35	MP1C	X	2.686	2.686	0	%100
36	MP1C	Z	1.551	1.551	0	%100
37	MP2A	X	2.978	2.978	0	%100
38	MP2A	Z	1.719	1.719	0	%100
39	MP2B	X	2.978	2.978	0	%100
40	MP2B	Z	1.719	1.719	0	%100
41	MP2C	X	2.978	2.978	0	%100
42	MP2C	Z	1.719	1.719	0	%100
43	MP3A	X	2.686	2.686	0	%100
44	MP3A	Z	1.551	1.551	0	%100
45	MP3B	X	2.686	2.686	0	%100
46	MP3B	Z	1.551	1.551	0	%100
47	MP3C	X	2.686	2.686	0	%100
48	MP3C	Z	1.551	1.551	0	%100
49	MP4A	X	2.686	2.686	0	%100
50	MP4A	Z	1.551	1.551	0	%100
51	MP4B	X	2.686	2.686	0	%100
52	MP4B	Z	1.551	1.551	0	%100
53	MP4C	X	2.686	2.686	0	%100
54	MP4C	Z	1.551	1.551	0	%100
55	OVP1	X	2.445	2.445	0	%100
56	OVP1	Z	1.412	1.412	0	%100
57	M59	X	.671	.671	0	%100
58	M59	Z	.388	.388	0	%100
59	M60	X	.671	.671	0	%100
60	M60	Z	.388	.388	0	%100
61	M61	X	2.686	2.686	0	%100
62	M61	Z	1.551	1.551	0	%100
63	M62	X	3.545	3.545	0	%100
64	M62	Z	2.047	2.047	0	%100
65	M63	X	1.607	1.607	0	%100
66	M63	Z	.928	.928	0	%100
67	M64	X	1.607	1.607	0	%100
68	M64	Z	.928	.928	0	%100
69	M65	X	3.545	3.545	0	%100
70	M65	Z	2.047	2.047	0	%100
71	M66	X	2.684	2.684	0	%100
72	M66	Z	1.55	1.55	0	%100
73	M67	X	2.684	2.684	0	%100
74	M67	Z	1.55	1.55	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	1.827	1.827	0	%100
2	M5	Z	3.165	3.165	0	%100
3	M7	X	1.827	1.827	0	%100
4	M7	Z	3.165	3.165	0	%100
5	M10A	X	.524	.524	0	%100
6	M10A	Z	.908	.908	0	%100
7	M12	X	.451	.451	0	%100
8	M12	Z	.782	.782	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
9	M13	X	.358	.358	0	%100
10	M13	Z	.619	.619	0	%100
11	M24A	X	2.097	2.097	0	%100
12	M24A	Z	3.633	3.633	0	%100
13	M24B	X	1.805	1.805	0	%100
14	M24B	Z	3.127	3.127	0	%100
15	M25A	X	.524	.524	0	%100
16	M25A	Z	.908	.908	0	%100
17	M25B	X	1.43	1.43	0	%100
18	M25B	Z	2.477	2.477	0	%100
19	M26	X	0	0	0	%100
20	M26	Z	0	0	0	%100
21	M27	X	0	0	0	%100
22	M27	Z	0	0	0	%100
23	M28	X	1.827	1.827	0	%100
24	M28	Z	3.165	3.165	0	%100
25	M28A	X	.451	.451	0	%100
26	M28A	Z	.782	.782	0	%100
27	M29	X	1.827	1.827	0	%100
28	M29	Z	3.165	3.165	0	%100
29	M29A	X	.358	.358	0	%100
30	M29A	Z	.619	.619	0	%100
31	MP1A	X	1.551	1.551	0	%100
32	MP1A	Z	2.686	2.686	0	%100
33	MP1B	X	1.551	1.551	0	%100
34	MP1B	Z	2.686	2.686	0	%100
35	MP1C	X	1.551	1.551	0	%100
36	MP1C	Z	2.686	2.686	0	%100
37	MP2A	X	1.719	1.719	0	%100
38	MP2A	Z	2.978	2.978	0	%100
39	MP2B	X	1.719	1.719	0	%100
40	MP2B	Z	2.978	2.978	0	%100
41	MP2C	X	1.719	1.719	0	%100
42	MP2C	Z	2.978	2.978	0	%100
43	MP3A	X	1.551	1.551	0	%100
44	MP3A	Z	2.686	2.686	0	%100
45	MP3B	X	1.551	1.551	0	%100
46	MP3B	Z	2.686	2.686	0	%100
47	MP3C	X	1.551	1.551	0	%100
48	MP3C	Z	2.686	2.686	0	%100
49	MP4A	X	1.551	1.551	0	%100
50	MP4A	Z	2.686	2.686	0	%100
51	MP4B	X	1.551	1.551	0	%100
52	MP4B	Z	2.686	2.686	0	%100
53	MP4C	X	1.551	1.551	0	%100
54	MP4C	Z	2.686	2.686	0	%100
55	OVP1	X	1.412	1.412	0	%100
56	OVP1	Z	2.445	2.445	0	%100
57	M59	X	1.163	1.163	0	%100
58	M59	Z	2.014	2.014	0	%100
59	M60	X	0	0	0	%100
60	M60	Z	0	0	0	%100
61	M61	X	1.163	1.163	0	%100
62	M61	Z	2.014	2.014	0	%100
63	M62	X	2.088	2.088	0	%100
64	M62	Z	3.617	3.617	0	%100
65	M63	X	.97	.97	0	%100
66	M63	Z	1.68	1.68	0	%100
67	M64	X	1.466	1.466	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
68	M64	Z	2.54	2.54	0	%100
69	M65	X	1.466	1.466	0	%100
70	M65	Z	2.54	2.54	0	%100
71	M66	X	.97	.97	0	%100
72	M66	Z	1.68	1.68	0	%100
73	M67	X	2.088	2.088	0	%100
74	M67	Z	3.617	3.617	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	0	0	0	%100
2	M5	Z	4.873	4.873	0	%100
3	M7	X	0	0	0	%100
4	M7	Z	4.873	4.873	0	%100
5	M10A	X	0	0	0	%100
6	M10A	Z	0	0	0	%100
7	M12	X	0	0	0	%100
8	M12	Z	0	0	0	%100
9	M13	X	0	0	0	%100
10	M13	Z	0	0	0	%100
11	M24A	X	0	0	0	%100
12	M24A	Z	3.146	3.146	0	%100
13	M24B	X	0	0	0	%100
14	M24B	Z	2.708	2.708	0	%100
15	M25A	X	0	0	0	%100
16	M25A	Z	3.146	3.146	0	%100
17	M25B	X	0	0	0	%100
18	M25B	Z	2.145	2.145	0	%100
19	M26	X	0	0	0	%100
20	M26	Z	1.218	1.218	0	%100
21	M27	X	0	0	0	%100
22	M27	Z	1.218	1.218	0	%100
23	M28	X	0	0	0	%100
24	M28	Z	1.218	1.218	0	%100
25	M28A	X	0	0	0	%100
26	M28A	Z	2.708	2.708	0	%100
27	M29	X	0	0	0	%100
28	M29	Z	1.218	1.218	0	%100
29	M29A	X	0	0	0	%100
30	M29A	Z	2.145	2.145	0	%100
31	MP1A	X	0	0	0	%100
32	MP1A	Z	3.101	3.101	0	%100
33	MP1B	X	0	0	0	%100
34	MP1B	Z	3.101	3.101	0	%100
35	MP1C	X	0	0	0	%100
36	MP1C	Z	3.101	3.101	0	%100
37	MP2A	X	0	0	0	%100
38	MP2A	Z	3.439	3.439	0	%100
39	MP2B	X	0	0	0	%100
40	MP2B	Z	3.439	3.439	0	%100
41	MP2C	X	0	0	0	%100
42	MP2C	Z	3.439	3.439	0	%100
43	MP3A	X	0	0	0	%100
44	MP3A	Z	3.101	3.101	0	%100
45	MP3B	X	0	0	0	%100
46	MP3B	Z	3.101	3.101	0	%100
47	MP3C	X	0	0	0	%100
48	MP3C	Z	3.101	3.101	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
49	MP4A	X	0	0	0	%100
50	MP4A	Z	3.101	3.101	0	%100
51	MP4B	X	0	0	0	%100
52	MP4B	Z	3.101	3.101	0	%100
53	MP4C	X	0	0	0	%100
54	MP4C	Z	3.101	3.101	0	%100
55	OVP1	X	0	0	0	%100
56	OVP1	Z	2.823	2.823	0	%100
57	M59	X	0	0	0	%100
58	M59	Z	3.101	3.101	0	%100
59	M60	X	0	0	0	%100
60	M60	Z	.775	.775	0	%100
61	M61	X	0	0	0	%100
62	M61	Z	.775	.775	0	%100
63	M62	X	0	0	0	%100
64	M62	Z	3.1	3.1	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	3.1	3.1	0	%100
67	M64	X	0	0	0	%100
68	M64	Z	4.093	4.093	0	%100
69	M65	X	0	0	0	%100
70	M65	Z	1.856	1.856	0	%100
71	M66	X	0	0	0	%100
72	M66	Z	1.856	1.856	0	%100
73	M67	X	0	0	0	%100
74	M67	Z	4.093	4.093	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	-1.827	-1.827	0	%100
2	M5	Z	3.165	3.165	0	%100
3	M7	X	-1.827	-1.827	0	%100
4	M7	Z	3.165	3.165	0	%100
5	M10A	X	-.524	-.524	0	%100
6	M10A	Z	.908	.908	0	%100
7	M12	X	-.451	-.451	0	%100
8	M12	Z	.782	.782	0	%100
9	M13	X	-.358	-.358	0	%100
10	M13	Z	.619	.619	0	%100
11	M24A	X	-.524	-.524	0	%100
12	M24A	Z	.908	.908	0	%100
13	M24B	X	-.451	-.451	0	%100
14	M24B	Z	.782	.782	0	%100
15	M25A	X	-2.097	-2.097	0	%100
16	M25A	Z	3.633	3.633	0	%100
17	M25B	X	-.358	-.358	0	%100
18	M25B	Z	.619	.619	0	%100
19	M26	X	-1.827	-1.827	0	%100
20	M26	Z	3.165	3.165	0	%100
21	M27	X	-1.827	-1.827	0	%100
22	M27	Z	3.165	3.165	0	%100
23	M28	X	0	0	0	%100
24	M28	Z	0	0	0	%100
25	M28A	X	-1.805	-1.805	0	%100
26	M28A	Z	3.127	3.127	0	%100
27	M29	X	0	0	0	%100
28	M29	Z	0	0	0	%100
29	M29A	X	-1.43	-1.43	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
30	M29A	Z	2.477	2.477	0	%100
31	MP1A	X	-1.551	-1.551	0	%100
32	MP1A	Z	2.686	2.686	0	%100
33	MP1B	X	-1.551	-1.551	0	%100
34	MP1B	Z	2.686	2.686	0	%100
35	MP1C	X	-1.551	-1.551	0	%100
36	MP1C	Z	2.686	2.686	0	%100
37	MP2A	X	-1.719	-1.719	0	%100
38	MP2A	Z	2.978	2.978	0	%100
39	MP2B	X	-1.719	-1.719	0	%100
40	MP2B	Z	2.978	2.978	0	%100
41	MP2C	X	-1.719	-1.719	0	%100
42	MP2C	Z	2.978	2.978	0	%100
43	MP3A	X	-1.551	-1.551	0	%100
44	MP3A	Z	2.686	2.686	0	%100
45	MP3B	X	-1.551	-1.551	0	%100
46	MP3B	Z	2.686	2.686	0	%100
47	MP3C	X	-1.551	-1.551	0	%100
48	MP3C	Z	2.686	2.686	0	%100
49	MP4A	X	-1.551	-1.551	0	%100
50	MP4A	Z	2.686	2.686	0	%100
51	MP4B	X	-1.551	-1.551	0	%100
52	MP4B	Z	2.686	2.686	0	%100
53	MP4C	X	-1.551	-1.551	0	%100
54	MP4C	Z	2.686	2.686	0	%100
55	OVP1	X	-1.412	-1.412	0	%100
56	OVP1	Z	2.445	2.445	0	%100
57	M59	X	-1.163	-1.163	0	%100
58	M59	Z	2.014	2.014	0	%100
59	M60	X	-1.163	-1.163	0	%100
60	M60	Z	2.014	2.014	0	%100
61	M61	X	0	0	0	%100
62	M61	Z	0	0	0	%100
63	M62	X	-.97	-.97	0	%100
64	M62	Z	1.68	1.68	0	%100
65	M63	X	-2.088	-2.088	0	%100
66	M63	Z	3.617	3.617	0	%100
67	M64	X	-2.088	-2.088	0	%100
68	M64	Z	3.617	3.617	0	%100
69	M65	X	-.97	-.97	0	%100
70	M65	Z	1.68	1.68	0	%100
71	M66	X	-1.466	-1.466	0	%100
72	M66	Z	2.54	2.54	0	%100
73	M67	X	-1.466	-1.466	0	%100
74	M67	Z	2.54	2.54	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	-1.055	-1.055	0	%100
2	M5	Z	.609	.609	0	%100
3	M7	X	-1.055	-1.055	0	%100
4	M7	Z	.609	.609	0	%100
5	M10A	X	-2.724	-2.724	0	%100
6	M10A	Z	1.573	1.573	0	%100
7	M12	X	-2.345	-2.345	0	%100
8	M12	Z	1.354	1.354	0	%100
9	M13	X	-1.858	-1.858	0	%100
10	M13	Z	1.073	1.073	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
11	M24A	X	0	0	0	%100
12	M24A	Z	0	0	0	%100
13	M24B	X	0	0	0	%100
14	M24B	Z	0	0	0	%100
15	M25A	X	-2.724	-2.724	0	%100
16	M25A	Z	1.573	1.573	0	%100
17	M25B	X	0	0	0	%100
18	M25B	Z	0	0	0	%100
19	M26	X	-4.22	-4.22	0	%100
20	M26	Z	2.436	2.436	0	%100
21	M27	X	-4.22	-4.22	0	%100
22	M27	Z	2.436	2.436	0	%100
23	M28	X	-1.055	-1.055	0	%100
24	M28	Z	.609	.609	0	%100
25	M28A	X	-2.345	-2.345	0	%100
26	M28A	Z	1.354	1.354	0	%100
27	M29	X	-1.055	-1.055	0	%100
28	M29	Z	.609	.609	0	%100
29	M29A	X	-1.858	-1.858	0	%100
30	M29A	Z	1.073	1.073	0	%100
31	MP1A	X	-2.686	-2.686	0	%100
32	MP1A	Z	1.551	1.551	0	%100
33	MP1B	X	-2.686	-2.686	0	%100
34	MP1B	Z	1.551	1.551	0	%100
35	MP1C	X	-2.686	-2.686	0	%100
36	MP1C	Z	1.551	1.551	0	%100
37	MP2A	X	-2.978	-2.978	0	%100
38	MP2A	Z	1.719	1.719	0	%100
39	MP2B	X	-2.978	-2.978	0	%100
40	MP2B	Z	1.719	1.719	0	%100
41	MP2C	X	-2.978	-2.978	0	%100
42	MP2C	Z	1.719	1.719	0	%100
43	MP3A	X	-2.686	-2.686	0	%100
44	MP3A	Z	1.551	1.551	0	%100
45	MP3B	X	-2.686	-2.686	0	%100
46	MP3B	Z	1.551	1.551	0	%100
47	MP3C	X	-2.686	-2.686	0	%100
48	MP3C	Z	1.551	1.551	0	%100
49	MP4A	X	-2.686	-2.686	0	%100
50	MP4A	Z	1.551	1.551	0	%100
51	MP4B	X	-2.686	-2.686	0	%100
52	MP4B	Z	1.551	1.551	0	%100
53	MP4C	X	-2.686	-2.686	0	%100
54	MP4C	Z	1.551	1.551	0	%100
55	OVP1	X	-2.445	-2.445	0	%100
56	OVP1	Z	1.412	1.412	0	%100
57	M59	X	-.671	-.671	0	%100
58	M59	Z	.388	.388	0	%100
59	M60	X	-2.686	-2.686	0	%100
60	M60	Z	1.551	1.551	0	%100
61	M61	X	-.671	-.671	0	%100
62	M61	Z	.388	.388	0	%100
63	M62	X	-1.607	-1.607	0	%100
64	M62	Z	.928	.928	0	%100
65	M63	X	-3.545	-3.545	0	%100
66	M63	Z	2.047	2.047	0	%100
67	M64	X	-2.684	-2.684	0	%100
68	M64	Z	1.55	1.55	0	%100
69	M65	X	-2.684	-2.684	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
70	M65	Z	1.55	1.55	0	%100
71	M66	X	-3.545	-3.545	0	%100
72	M66	Z	2.047	2.047	0	%100
73	M67	X	-1.607	-1.607	0	%100
74	M67	Z	.928	.928	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	0	0	0	%100
2	M5	Z	0	0	0	%100
3	M7	X	0	0	0	%100
4	M7	Z	0	0	0	%100
5	M10A	X	-4.195	-4.195	0	%100
6	M10A	Z	0	0	0	%100
7	M12	X	-3.611	-3.611	0	%100
8	M12	Z	0	0	0	%100
9	M13	X	-2.861	-2.861	0	%100
10	M13	Z	0	0	0	%100
11	M24A	X	-1.049	-1.049	0	%100
12	M24A	Z	0	0	0	%100
13	M24B	X	-.903	-.903	0	%100
14	M24B	Z	0	0	0	%100
15	M25A	X	-1.049	-1.049	0	%100
16	M25A	Z	0	0	0	%100
17	M25B	X	-.715	-.715	0	%100
18	M25B	Z	0	0	0	%100
19	M26	X	-3.655	-3.655	0	%100
20	M26	Z	0	0	0	%100
21	M27	X	-3.655	-3.655	0	%100
22	M27	Z	0	0	0	%100
23	M28	X	-3.655	-3.655	0	%100
24	M28	Z	0	0	0	%100
25	M28A	X	-.903	-.903	0	%100
26	M28A	Z	0	0	0	%100
27	M29	X	-3.655	-3.655	0	%100
28	M29	Z	0	0	0	%100
29	M29A	X	-.715	-.715	0	%100
30	M29A	Z	0	0	0	%100
31	MP1A	X	-3.101	-3.101	0	%100
32	MP1A	Z	0	0	0	%100
33	MP1B	X	-3.101	-3.101	0	%100
34	MP1B	Z	0	0	0	%100
35	MP1C	X	-3.101	-3.101	0	%100
36	MP1C	Z	0	0	0	%100
37	MP2A	X	-3.439	-3.439	0	%100
38	MP2A	Z	0	0	0	%100
39	MP2B	X	-3.439	-3.439	0	%100
40	MP2B	Z	0	0	0	%100
41	MP2C	X	-3.439	-3.439	0	%100
42	MP2C	Z	0	0	0	%100
43	MP3A	X	-3.101	-3.101	0	%100
44	MP3A	Z	0	0	0	%100
45	MP3B	X	-3.101	-3.101	0	%100
46	MP3B	Z	0	0	0	%100
47	MP3C	X	-3.101	-3.101	0	%100
48	MP3C	Z	0	0	0	%100
49	MP4A	X	-3.101	-3.101	0	%100
50	MP4A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
51	MP4B	X	-3.101	-3.101	0	%100
52	MP4B	Z	0	0	0	%100
53	MP4C	X	-3.101	-3.101	0	%100
54	MP4C	Z	0	0	0	%100
55	OVP1	X	-2.823	-2.823	0	%100
56	OVP1	Z	0	0	0	%100
57	M59	X	0	0	0	%100
58	M59	Z	0	0	0	%100
59	M60	X	-2.326	-2.326	0	%100
60	M60	Z	0	0	0	%100
61	M61	X	-2.326	-2.326	0	%100
62	M61	Z	0	0	0	%100
63	M62	X	-2.933	-2.933	0	%100
64	M62	Z	0	0	0	%100
65	M63	X	-2.933	-2.933	0	%100
66	M63	Z	0	0	0	%100
67	M64	X	-1.939	-1.939	0	%100
68	M64	Z	0	0	0	%100
69	M65	X	-4.176	-4.176	0	%100
70	M65	Z	0	0	0	%100
71	M66	X	-4.176	-4.176	0	%100
72	M66	Z	0	0	0	%100
73	M67	X	-1.939	-1.939	0	%100
74	M67	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	-1.055	-1.055	0	%100
2	M5	Z	-.609	-.609	0	%100
3	M7	X	-1.055	-1.055	0	%100
4	M7	Z	-.609	-.609	0	%100
5	M10A	X	-2.724	-2.724	0	%100
6	M10A	Z	-1.573	-1.573	0	%100
7	M12	X	-2.345	-2.345	0	%100
8	M12	Z	-1.354	-1.354	0	%100
9	M13	X	-1.858	-1.858	0	%100
10	M13	Z	-1.073	-1.073	0	%100
11	M24A	X	-2.724	-2.724	0	%100
12	M24A	Z	-1.573	-1.573	0	%100
13	M24B	X	-2.345	-2.345	0	%100
14	M24B	Z	-1.354	-1.354	0	%100
15	M25A	X	0	0	0	%100
16	M25A	Z	0	0	0	%100
17	M25B	X	-1.858	-1.858	0	%100
18	M25B	Z	-1.073	-1.073	0	%100
19	M26	X	-1.055	-1.055	0	%100
20	M26	Z	-.609	-.609	0	%100
21	M27	X	-1.055	-1.055	0	%100
22	M27	Z	-.609	-.609	0	%100
23	M28	X	-4.22	-4.22	0	%100
24	M28	Z	-2.436	-2.436	0	%100
25	M28A	X	0	0	0	%100
26	M28A	Z	0	0	0	%100
27	M29	X	-4.22	-4.22	0	%100
28	M29	Z	-2.436	-2.436	0	%100
29	M29A	X	0	0	0	%100
30	M29A	Z	0	0	0	%100
31	MP1A	X	-2.686	-2.686	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
32	MP1A	Z	-1.551	-1.551	0	%100
33	MP1B	X	-2.686	-2.686	0	%100
34	MP1B	Z	-1.551	-1.551	0	%100
35	MP1C	X	-2.686	-2.686	0	%100
36	MP1C	Z	-1.551	-1.551	0	%100
37	MP2A	X	-2.978	-2.978	0	%100
38	MP2A	Z	-1.719	-1.719	0	%100
39	MP2B	X	-2.978	-2.978	0	%100
40	MP2B	Z	-1.719	-1.719	0	%100
41	MP2C	X	-2.978	-2.978	0	%100
42	MP2C	Z	-1.719	-1.719	0	%100
43	MP3A	X	-2.686	-2.686	0	%100
44	MP3A	Z	-1.551	-1.551	0	%100
45	MP3B	X	-2.686	-2.686	0	%100
46	MP3B	Z	-1.551	-1.551	0	%100
47	MP3C	X	-2.686	-2.686	0	%100
48	MP3C	Z	-1.551	-1.551	0	%100
49	MP4A	X	-2.686	-2.686	0	%100
50	MP4A	Z	-1.551	-1.551	0	%100
51	MP4B	X	-2.686	-2.686	0	%100
52	MP4B	Z	-1.551	-1.551	0	%100
53	MP4C	X	-2.686	-2.686	0	%100
54	MP4C	Z	-1.551	-1.551	0	%100
55	OVP1	X	-2.445	-2.445	0	%100
56	OVP1	Z	-1.412	-1.412	0	%100
57	M59	X	-.671	-.671	0	%100
58	M59	Z	-.388	-.388	0	%100
59	M60	X	-.671	-.671	0	%100
60	M60	Z	-.388	-.388	0	%100
61	M61	X	-2.686	-2.686	0	%100
62	M61	Z	-1.551	-1.551	0	%100
63	M62	X	-3.545	-3.545	0	%100
64	M62	Z	-2.047	-2.047	0	%100
65	M63	X	-1.607	-1.607	0	%100
66	M63	Z	-.928	-.928	0	%100
67	M64	X	-1.607	-1.607	0	%100
68	M64	Z	-.928	-.928	0	%100
69	M65	X	-3.545	-3.545	0	%100
70	M65	Z	-2.047	-2.047	0	%100
71	M66	X	-2.684	-2.684	0	%100
72	M66	Z	-1.55	-1.55	0	%100
73	M67	X	-2.684	-2.684	0	%100
74	M67	Z	-1.55	-1.55	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	-1.827	-1.827	0	%100
2	M5	Z	-3.165	-3.165	0	%100
3	M7	X	-1.827	-1.827	0	%100
4	M7	Z	-3.165	-3.165	0	%100
5	M10A	X	-.524	-.524	0	%100
6	M10A	Z	-.908	-.908	0	%100
7	M12	X	-.451	-.451	0	%100
8	M12	Z	-.782	-.782	0	%100
9	M13	X	-.358	-.358	0	%100
10	M13	Z	-.619	-.619	0	%100
11	M24A	X	-2.097	-2.097	0	%100
12	M24A	Z	-3.633	-3.633	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
13	M24B	X	-1.805	-1.805	0	%100
14	M24B	Z	-3.127	-3.127	0	%100
15	M25A	X	-.524	-.524	0	%100
16	M25A	Z	-.908	-.908	0	%100
17	M25B	X	-1.43	-1.43	0	%100
18	M25B	Z	-2.477	-2.477	0	%100
19	M26	X	0	0	0	%100
20	M26	Z	0	0	0	%100
21	M27	X	0	0	0	%100
22	M27	Z	0	0	0	%100
23	M28	X	-1.827	-1.827	0	%100
24	M28	Z	-3.165	-3.165	0	%100
25	M28A	X	-.451	-.451	0	%100
26	M28A	Z	-.782	-.782	0	%100
27	M29	X	-1.827	-1.827	0	%100
28	M29	Z	-3.165	-3.165	0	%100
29	M29A	X	-.358	-.358	0	%100
30	M29A	Z	-.619	-.619	0	%100
31	MP1A	X	-1.551	-1.551	0	%100
32	MP1A	Z	-2.686	-2.686	0	%100
33	MP1B	X	-1.551	-1.551	0	%100
34	MP1B	Z	-2.686	-2.686	0	%100
35	MP1C	X	-1.551	-1.551	0	%100
36	MP1C	Z	-2.686	-2.686	0	%100
37	MP2A	X	-1.719	-1.719	0	%100
38	MP2A	Z	-2.978	-2.978	0	%100
39	MP2B	X	-1.719	-1.719	0	%100
40	MP2B	Z	-2.978	-2.978	0	%100
41	MP2C	X	-1.719	-1.719	0	%100
42	MP2C	Z	-2.978	-2.978	0	%100
43	MP3A	X	-1.551	-1.551	0	%100
44	MP3A	Z	-2.686	-2.686	0	%100
45	MP3B	X	-1.551	-1.551	0	%100
46	MP3B	Z	-2.686	-2.686	0	%100
47	MP3C	X	-1.551	-1.551	0	%100
48	MP3C	Z	-2.686	-2.686	0	%100
49	MP4A	X	-1.551	-1.551	0	%100
50	MP4A	Z	-2.686	-2.686	0	%100
51	MP4B	X	-1.551	-1.551	0	%100
52	MP4B	Z	-2.686	-2.686	0	%100
53	MP4C	X	-1.551	-1.551	0	%100
54	MP4C	Z	-2.686	-2.686	0	%100
55	OVP1	X	-1.412	-1.412	0	%100
56	OVP1	Z	-2.445	-2.445	0	%100
57	M59	X	-1.163	-1.163	0	%100
58	M59	Z	-2.014	-2.014	0	%100
59	M60	X	0	0	0	%100
60	M60	Z	0	0	0	%100
61	M61	X	-1.163	-1.163	0	%100
62	M61	Z	-2.014	-2.014	0	%100
63	M62	X	-2.088	-2.088	0	%100
64	M62	Z	-3.617	-3.617	0	%100
65	M63	X	-.97	-.97	0	%100
66	M63	Z	-1.68	-1.68	0	%100
67	M64	X	-1.466	-1.466	0	%100
68	M64	Z	-2.54	-2.54	0	%100
69	M65	X	-1.466	-1.466	0	%100
70	M65	Z	-2.54	-2.54	0	%100
71	M66	X	-.97	-.97	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
72	M66	Z	-1.68	-1.68	0	%100
73	M67	X	-2.088	-2.088	0	%100
74	M67	Z	-3.617	-3.617	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	0	0	0	%100
2	M5	Z	-1.215	-1.215	0	%100
3	M7	X	0	0	0	%100
4	M7	Z	-1.215	-1.215	0	%100
5	M10A	X	0	0	0	%100
6	M10A	Z	0	0	0	%100
7	M12	X	0	0	0	%100
8	M12	Z	0	0	0	%100
9	M13	X	0	0	0	%100
10	M13	Z	0	0	0	%100
11	M24A	X	0	0	0	%100
12	M24A	Z	-.762	-.762	0	%100
13	M24B	X	0	0	0	%100
14	M24B	Z	-.677	-.677	0	%100
15	M25A	X	0	0	0	%100
16	M25A	Z	-.762	-.762	0	%100
17	M25B	X	0	0	0	%100
18	M25B	Z	-.518	-.518	0	%100
19	M26	X	0	0	0	%100
20	M26	Z	-.304	-.304	0	%100
21	M27	X	0	0	0	%100
22	M27	Z	-.304	-.304	0	%100
23	M28	X	0	0	0	%100
24	M28	Z	-.304	-.304	0	%100
25	M28A	X	0	0	0	%100
26	M28A	Z	-.677	-.677	0	%100
27	M29	X	0	0	0	%100
28	M29	Z	-.304	-.304	0	%100
29	M29A	X	0	0	0	%100
30	M29A	Z	-.518	-.518	0	%100
31	MP1A	X	0	0	0	%100
32	MP1A	Z	-.577	-.577	0	%100
33	MP1B	X	0	0	0	%100
34	MP1B	Z	-.577	-.577	0	%100
35	MP1C	X	0	0	0	%100
36	MP1C	Z	-.577	-.577	0	%100
37	MP2A	X	0	0	0	%100
38	MP2A	Z	-.698	-.698	0	%100
39	MP2B	X	0	0	0	%100
40	MP2B	Z	-.698	-.698	0	%100
41	MP2C	X	0	0	0	%100
42	MP2C	Z	-.698	-.698	0	%100
43	MP3A	X	0	0	0	%100
44	MP3A	Z	-.577	-.577	0	%100
45	MP3B	X	0	0	0	%100
46	MP3B	Z	-.577	-.577	0	%100
47	MP3C	X	0	0	0	%100
48	MP3C	Z	-.577	-.577	0	%100
49	MP4A	X	0	0	0	%100
50	MP4A	Z	-.577	-.577	0	%100
51	MP4B	X	0	0	0	%100
52	MP4B	Z	-.577	-.577	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
53	MP4C	X	0	0	0	%100
54	MP4C	Z	-.577	-.577	0	%100
55	OVP1	X	0	0	0	%100
56	OVP1	Z	-.592	-.592	0	%100
57	M59	X	0	0	0	%100
58	M59	Z	-.577	-.577	0	%100
59	M60	X	0	0	0	%100
60	M60	Z	-.144	-.144	0	%100
61	M61	X	0	0	0	%100
62	M61	Z	-.144	-.144	0	%100
63	M62	X	0	0	0	%100
64	M62	Z	-.728	-.728	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	-.728	-.728	0	%100
67	M64	X	0	0	0	%100
68	M64	Z	-.961	-.961	0	%100
69	M65	X	0	0	0	%100
70	M65	Z	-.436	-.436	0	%100
71	M66	X	0	0	0	%100
72	M66	Z	-.436	-.436	0	%100
73	M67	X	0	0	0	%100
74	M67	Z	-.961	-.961	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	.456	.456	0	%100
2	M5	Z	-.789	-.789	0	%100
3	M7	X	.456	.456	0	%100
4	M7	Z	-.789	-.789	0	%100
5	M10A	X	.127	.127	0	%100
6	M10A	Z	-.22	-.22	0	%100
7	M12	X	.113	.113	0	%100
8	M12	Z	-.196	-.196	0	%100
9	M13	X	.086	.086	0	%100
10	M13	Z	-.15	-.15	0	%100
11	M24A	X	.127	.127	0	%100
12	M24A	Z	-.22	-.22	0	%100
13	M24B	X	.113	.113	0	%100
14	M24B	Z	-.196	-.196	0	%100
15	M25A	X	.508	.508	0	%100
16	M25A	Z	-.88	-.88	0	%100
17	M25B	X	.086	.086	0	%100
18	M25B	Z	-.15	-.15	0	%100
19	M26	X	.456	.456	0	%100
20	M26	Z	-.789	-.789	0	%100
21	M27	X	.456	.456	0	%100
22	M27	Z	-.789	-.789	0	%100
23	M28	X	0	0	0	%100
24	M28	Z	0	0	0	%100
25	M28A	X	.452	.452	0	%100
26	M28A	Z	-.782	-.782	0	%100
27	M29	X	0	0	0	%100
28	M29	Z	0	0	0	%100
29	M29A	X	.345	.345	0	%100
30	M29A	Z	-.598	-.598	0	%100
31	MP1A	X	.288	.288	0	%100
32	MP1A	Z	-.5	-.5	0	%100
33	MP1B	X	.288	.288	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
34	MP1B	Z	-.5	-.5	0	%100
35	MP1C	X	.288	.288	0	%100
36	MP1C	Z	-.5	-.5	0	%100
37	MP2A	X	.349	.349	0	%100
38	MP2A	Z	-.605	-.605	0	%100
39	MP2B	X	.349	.349	0	%100
40	MP2B	Z	-.605	-.605	0	%100
41	MP2C	X	.349	.349	0	%100
42	MP2C	Z	-.605	-.605	0	%100
43	MP3A	X	.288	.288	0	%100
44	MP3A	Z	-.5	-.5	0	%100
45	MP3B	X	.288	.288	0	%100
46	MP3B	Z	-.5	-.5	0	%100
47	MP3C	X	.288	.288	0	%100
48	MP3C	Z	-.5	-.5	0	%100
49	MP4A	X	.288	.288	0	%100
50	MP4A	Z	-.5	-.5	0	%100
51	MP4B	X	.288	.288	0	%100
52	MP4B	Z	-.5	-.5	0	%100
53	MP4C	X	.288	.288	0	%100
54	MP4C	Z	-.5	-.5	0	%100
55	OVP1	X	.296	.296	0	%100
56	OVP1	Z	-.512	-.512	0	%100
57	M59	X	.216	.216	0	%100
58	M59	Z	-.375	-.375	0	%100
59	M60	X	.216	.216	0	%100
60	M60	Z	-.375	-.375	0	%100
61	M61	X	0	0	0	%100
62	M61	Z	0	0	0	%100
63	M62	X	.228	.228	0	%100
64	M62	Z	-.394	-.394	0	%100
65	M63	X	.49	.49	0	%100
66	M63	Z	-.849	-.849	0	%100
67	M64	X	.49	.49	0	%100
68	M64	Z	-.849	-.849	0	%100
69	M65	X	.228	.228	0	%100
70	M65	Z	-.394	-.394	0	%100
71	M66	X	.344	.344	0	%100
72	M66	Z	-.596	-.596	0	%100
73	M67	X	.344	.344	0	%100
74	M67	Z	-.596	-.596	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	.263	.263	0	%100
2	M5	Z	-.152	-.152	0	%100
3	M7	X	.263	.263	0	%100
4	M7	Z	-.152	-.152	0	%100
5	M10A	X	.66	.66	0	%100
6	M10A	Z	-.381	-.381	0	%100
7	M12	X	.587	.587	0	%100
8	M12	Z	-.339	-.339	0	%100
9	M13	X	.449	.449	0	%100
10	M13	Z	-.259	-.259	0	%100
11	M24A	X	0	0	0	%100
12	M24A	Z	0	0	0	%100
13	M24B	X	0	0	0	%100
14	M24B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
15	M25A	X	.66	.66	0	%100
16	M25A	Z	-.381	-.381	0	%100
17	M25B	X	0	0	0	%100
18	M25B	Z	0	0	0	%100
19	M26	X	1.052	1.052	0	%100
20	M26	Z	-.607	-.607	0	%100
21	M27	X	1.052	1.052	0	%100
22	M27	Z	-.607	-.607	0	%100
23	M28	X	.263	.263	0	%100
24	M28	Z	-.152	-.152	0	%100
25	M28A	X	.587	.587	0	%100
26	M28A	Z	-.339	-.339	0	%100
27	M29	X	.263	.263	0	%100
28	M29	Z	-.152	-.152	0	%100
29	M29A	X	.449	.449	0	%100
30	M29A	Z	-.259	-.259	0	%100
31	MP1A	X	.5	.5	0	%100
32	MP1A	Z	-.288	-.288	0	%100
33	MP1B	X	.5	.5	0	%100
34	MP1B	Z	-.288	-.288	0	%100
35	MP1C	X	.5	.5	0	%100
36	MP1C	Z	-.288	-.288	0	%100
37	MP2A	X	.605	.605	0	%100
38	MP2A	Z	-.349	-.349	0	%100
39	MP2B	X	.605	.605	0	%100
40	MP2B	Z	-.349	-.349	0	%100
41	MP2C	X	.605	.605	0	%100
42	MP2C	Z	-.349	-.349	0	%100
43	MP3A	X	.5	.5	0	%100
44	MP3A	Z	-.288	-.288	0	%100
45	MP3B	X	.5	.5	0	%100
46	MP3B	Z	-.288	-.288	0	%100
47	MP3C	X	.5	.5	0	%100
48	MP3C	Z	-.288	-.288	0	%100
49	MP4A	X	.5	.5	0	%100
50	MP4A	Z	-.288	-.288	0	%100
51	MP4B	X	.5	.5	0	%100
52	MP4B	Z	-.288	-.288	0	%100
53	MP4C	X	.5	.5	0	%100
54	MP4C	Z	-.288	-.288	0	%100
55	OVP1	X	.512	.512	0	%100
56	OVP1	Z	-.296	-.296	0	%100
57	M59	X	.125	.125	0	%100
58	M59	Z	-.072	-.072	0	%100
59	M60	X	.5	.5	0	%100
60	M60	Z	-.288	-.288	0	%100
61	M61	X	.125	.125	0	%100
62	M61	Z	-.072	-.072	0	%100
63	M62	X	.377	.377	0	%100
64	M62	Z	-.218	-.218	0	%100
65	M63	X	.832	.832	0	%100
66	M63	Z	-.481	-.481	0	%100
67	M64	X	.63	.63	0	%100
68	M64	Z	-.364	-.364	0	%100
69	M65	X	.63	.63	0	%100
70	M65	Z	-.364	-.364	0	%100
71	M66	X	.832	.832	0	%100
72	M66	Z	-.481	-.481	0	%100
73	M67	X	.377	.377	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
74	M67	Z	-.218	-.218	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	0	0	0	%100
2	M5	Z	0	0	0	%100
3	M7	X	0	0	0	%100
4	M7	Z	0	0	0	%100
5	M10A	X	1.016	1.016	0	%100
6	M10A	Z	0	0	0	%100
7	M12	X	.903	.903	0	%100
8	M12	Z	0	0	0	%100
9	M13	X	.691	.691	0	%100
10	M13	Z	0	0	0	%100
11	M24A	X	.254	.254	0	%100
12	M24A	Z	0	0	0	%100
13	M24B	X	.226	.226	0	%100
14	M24B	Z	0	0	0	%100
15	M25A	X	.254	.254	0	%100
16	M25A	Z	0	0	0	%100
17	M25B	X	.173	.173	0	%100
18	M25B	Z	0	0	0	%100
19	M26	X	.911	.911	0	%100
20	M26	Z	0	0	0	%100
21	M27	X	.911	.911	0	%100
22	M27	Z	0	0	0	%100
23	M28	X	.911	.911	0	%100
24	M28	Z	0	0	0	%100
25	M28A	X	.226	.226	0	%100
26	M28A	Z	0	0	0	%100
27	M29	X	.911	.911	0	%100
28	M29	Z	0	0	0	%100
29	M29A	X	.173	.173	0	%100
30	M29A	Z	0	0	0	%100
31	MP1A	X	.577	.577	0	%100
32	MP1A	Z	0	0	0	%100
33	MP1B	X	.577	.577	0	%100
34	MP1B	Z	0	0	0	%100
35	MP1C	X	.577	.577	0	%100
36	MP1C	Z	0	0	0	%100
37	MP2A	X	.698	.698	0	%100
38	MP2A	Z	0	0	0	%100
39	MP2B	X	.698	.698	0	%100
40	MP2B	Z	0	0	0	%100
41	MP2C	X	.698	.698	0	%100
42	MP2C	Z	0	0	0	%100
43	MP3A	X	.577	.577	0	%100
44	MP3A	Z	0	0	0	%100
45	MP3B	X	.577	.577	0	%100
46	MP3B	Z	0	0	0	%100
47	MP3C	X	.577	.577	0	%100
48	MP3C	Z	0	0	0	%100
49	MP4A	X	.577	.577	0	%100
50	MP4A	Z	0	0	0	%100
51	MP4B	X	.577	.577	0	%100
52	MP4B	Z	0	0	0	%100
53	MP4C	X	.577	.577	0	%100
54	MP4C	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
55	OVP1	X	.592	.592	0	%100
56	OVP1	Z	0	0	0	%100
57	M59	X	0	0	0	%100
58	M59	Z	0	0	0	%100
59	M60	X	.433	.433	0	%100
60	M60	Z	0	0	0	%100
61	M61	X	.433	.433	0	%100
62	M61	Z	0	0	0	%100
63	M62	X	.689	.689	0	%100
64	M62	Z	0	0	0	%100
65	M63	X	.689	.689	0	%100
66	M63	Z	0	0	0	%100
67	M64	X	.455	.455	0	%100
68	M64	Z	0	0	0	%100
69	M65	X	.981	.981	0	%100
70	M65	Z	0	0	0	%100
71	M66	X	.981	.981	0	%100
72	M66	Z	0	0	0	%100
73	M67	X	.455	.455	0	%100
74	M67	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	.263	.263	0	%100
2	M5	Z	.152	.152	0	%100
3	M7	X	.263	.263	0	%100
4	M7	Z	.152	.152	0	%100
5	M10A	X	.66	.66	0	%100
6	M10A	Z	.381	.381	0	%100
7	M12	X	.587	.587	0	%100
8	M12	Z	.339	.339	0	%100
9	M13	X	.449	.449	0	%100
10	M13	Z	.259	.259	0	%100
11	M24A	X	.66	.66	0	%100
12	M24A	Z	.381	.381	0	%100
13	M24B	X	.587	.587	0	%100
14	M24B	Z	.339	.339	0	%100
15	M25A	X	0	0	0	%100
16	M25A	Z	0	0	0	%100
17	M25B	X	.449	.449	0	%100
18	M25B	Z	.259	.259	0	%100
19	M26	X	.263	.263	0	%100
20	M26	Z	.152	.152	0	%100
21	M27	X	.263	.263	0	%100
22	M27	Z	.152	.152	0	%100
23	M28	X	1.052	1.052	0	%100
24	M28	Z	.607	.607	0	%100
25	M28A	X	0	0	0	%100
26	M28A	Z	0	0	0	%100
27	M29	X	1.052	1.052	0	%100
28	M29	Z	.607	.607	0	%100
29	M29A	X	0	0	0	%100
30	M29A	Z	0	0	0	%100
31	MP1A	X	.5	.5	0	%100
32	MP1A	Z	.288	.288	0	%100
33	MP1B	X	.5	.5	0	%100
34	MP1B	Z	.288	.288	0	%100
35	MP1C	X	.5	.5	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
36	MP1C	Z	.288	.288	0	%100
37	MP2A	X	.605	.605	0	%100
38	MP2A	Z	.349	.349	0	%100
39	MP2B	X	.605	.605	0	%100
40	MP2B	Z	.349	.349	0	%100
41	MP2C	X	.605	.605	0	%100
42	MP2C	Z	.349	.349	0	%100
43	MP3A	X	.5	.5	0	%100
44	MP3A	Z	.288	.288	0	%100
45	MP3B	X	.5	.5	0	%100
46	MP3B	Z	.288	.288	0	%100
47	MP3C	X	.5	.5	0	%100
48	MP3C	Z	.288	.288	0	%100
49	MP4A	X	.5	.5	0	%100
50	MP4A	Z	.288	.288	0	%100
51	MP4B	X	.5	.5	0	%100
52	MP4B	Z	.288	.288	0	%100
53	MP4C	X	.5	.5	0	%100
54	MP4C	Z	.288	.288	0	%100
55	OVP1	X	.512	.512	0	%100
56	OVP1	Z	.296	.296	0	%100
57	M59	X	.125	.125	0	%100
58	M59	Z	.072	.072	0	%100
59	M60	X	.125	.125	0	%100
60	M60	Z	.072	.072	0	%100
61	M61	X	.5	.5	0	%100
62	M61	Z	.288	.288	0	%100
63	M62	X	.832	.832	0	%100
64	M62	Z	.481	.481	0	%100
65	M63	X	.377	.377	0	%100
66	M63	Z	.218	.218	0	%100
67	M64	X	.377	.377	0	%100
68	M64	Z	.218	.218	0	%100
69	M65	X	.832	.832	0	%100
70	M65	Z	.481	.481	0	%100
71	M66	X	.63	.63	0	%100
72	M66	Z	.364	.364	0	%100
73	M67	X	.63	.63	0	%100
74	M67	Z	.364	.364	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	.456	.456	0	%100
2	M5	Z	.789	.789	0	%100
3	M7	X	.456	.456	0	%100
4	M7	Z	.789	.789	0	%100
5	M10A	X	.127	.127	0	%100
6	M10A	Z	.22	.22	0	%100
7	M12	X	.113	.113	0	%100
8	M12	Z	.196	.196	0	%100
9	M13	X	.086	.086	0	%100
10	M13	Z	.15	.15	0	%100
11	M24A	X	.508	.508	0	%100
12	M24A	Z	.88	.88	0	%100
13	M24B	X	.452	.452	0	%100
14	M24B	Z	.782	.782	0	%100
15	M25A	X	.127	.127	0	%100
16	M25A	Z	.22	.22	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
17	M25B	X	.345	.345	0	%100
18	M25B	Z	.598	.598	0	%100
19	M26	X	0	0	0	%100
20	M26	Z	0	0	0	%100
21	M27	X	0	0	0	%100
22	M27	Z	0	0	0	%100
23	M28	X	.456	.456	0	%100
24	M28	Z	.789	.789	0	%100
25	M28A	X	.113	.113	0	%100
26	M28A	Z	.196	.196	0	%100
27	M29	X	.456	.456	0	%100
28	M29	Z	.789	.789	0	%100
29	M29A	X	.086	.086	0	%100
30	M29A	Z	.15	.15	0	%100
31	MP1A	X	.288	.288	0	%100
32	MP1A	Z	.5	.5	0	%100
33	MP1B	X	.288	.288	0	%100
34	MP1B	Z	.5	.5	0	%100
35	MP1C	X	.288	.288	0	%100
36	MP1C	Z	.5	.5	0	%100
37	MP2A	X	.349	.349	0	%100
38	MP2A	Z	.605	.605	0	%100
39	MP2B	X	.349	.349	0	%100
40	MP2B	Z	.605	.605	0	%100
41	MP2C	X	.349	.349	0	%100
42	MP2C	Z	.605	.605	0	%100
43	MP3A	X	.288	.288	0	%100
44	MP3A	Z	.5	.5	0	%100
45	MP3B	X	.288	.288	0	%100
46	MP3B	Z	.5	.5	0	%100
47	MP3C	X	.288	.288	0	%100
48	MP3C	Z	.5	.5	0	%100
49	MP4A	X	.288	.288	0	%100
50	MP4A	Z	.5	.5	0	%100
51	MP4B	X	.288	.288	0	%100
52	MP4B	Z	.5	.5	0	%100
53	MP4C	X	.288	.288	0	%100
54	MP4C	Z	.5	.5	0	%100
55	OVP1	X	.296	.296	0	%100
56	OVP1	Z	.512	.512	0	%100
57	M59	X	.216	.216	0	%100
58	M59	Z	.375	.375	0	%100
59	M60	X	0	0	0	%100
60	M60	Z	0	0	0	%100
61	M61	X	.216	.216	0	%100
62	M61	Z	.375	.375	0	%100
63	M62	X	.49	.49	0	%100
64	M62	Z	.849	.849	0	%100
65	M63	X	.228	.228	0	%100
66	M63	Z	.394	.394	0	%100
67	M64	X	.344	.344	0	%100
68	M64	Z	.596	.596	0	%100
69	M65	X	.344	.344	0	%100
70	M65	Z	.596	.596	0	%100
71	M66	X	.228	.228	0	%100
72	M66	Z	.394	.394	0	%100
73	M67	X	.49	.49	0	%100
74	M67	Z	.849	.849	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	0	0	0	%100
2	M5	Z	1.215	1.215	0	%100
3	M7	X	0	0	0	%100
4	M7	Z	1.215	1.215	0	%100
5	M10A	X	0	0	0	%100
6	M10A	Z	0	0	0	%100
7	M12	X	0	0	0	%100
8	M12	Z	0	0	0	%100
9	M13	X	0	0	0	%100
10	M13	Z	0	0	0	%100
11	M24A	X	0	0	0	%100
12	M24A	Z	.762	.762	0	%100
13	M24B	X	0	0	0	%100
14	M24B	Z	.677	.677	0	%100
15	M25A	X	0	0	0	%100
16	M25A	Z	.762	.762	0	%100
17	M25B	X	0	0	0	%100
18	M25B	Z	.518	.518	0	%100
19	M26	X	0	0	0	%100
20	M26	Z	.304	.304	0	%100
21	M27	X	0	0	0	%100
22	M27	Z	.304	.304	0	%100
23	M28	X	0	0	0	%100
24	M28	Z	.304	.304	0	%100
25	M28A	X	0	0	0	%100
26	M28A	Z	.677	.677	0	%100
27	M29	X	0	0	0	%100
28	M29	Z	.304	.304	0	%100
29	M29A	X	0	0	0	%100
30	M29A	Z	.518	.518	0	%100
31	MP1A	X	0	0	0	%100
32	MP1A	Z	.577	.577	0	%100
33	MP1B	X	0	0	0	%100
34	MP1B	Z	.577	.577	0	%100
35	MP1C	X	0	0	0	%100
36	MP1C	Z	.577	.577	0	%100
37	MP2A	X	0	0	0	%100
38	MP2A	Z	.698	.698	0	%100
39	MP2B	X	0	0	0	%100
40	MP2B	Z	.698	.698	0	%100
41	MP2C	X	0	0	0	%100
42	MP2C	Z	.698	.698	0	%100
43	MP3A	X	0	0	0	%100
44	MP3A	Z	.577	.577	0	%100
45	MP3B	X	0	0	0	%100
46	MP3B	Z	.577	.577	0	%100
47	MP3C	X	0	0	0	%100
48	MP3C	Z	.577	.577	0	%100
49	MP4A	X	0	0	0	%100
50	MP4A	Z	.577	.577	0	%100
51	MP4B	X	0	0	0	%100
52	MP4B	Z	.577	.577	0	%100
53	MP4C	X	0	0	0	%100
54	MP4C	Z	.577	.577	0	%100
55	OVP1	X	0	0	0	%100
56	OVP1	Z	.592	.592	0	%100
57	M59	X	0	0	0	%100
58	M59	Z	.577	.577	0	%100
59	M60	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
60	M60	Z	.144	.144	0	%100
61	M61	X	0	0	0	%100
62	M61	Z	.144	.144	0	%100
63	M62	X	0	0	0	%100
64	M62	Z	.728	.728	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	.728	.728	0	%100
67	M64	X	0	0	0	%100
68	M64	Z	.961	.961	0	%100
69	M65	X	0	0	0	%100
70	M65	Z	.436	.436	0	%100
71	M66	X	0	0	0	%100
72	M66	Z	.436	.436	0	%100
73	M67	X	0	0	0	%100
74	M67	Z	.961	.961	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	-.456	-.456	0	%100
2	M5	Z	.789	.789	0	%100
3	M7	X	-.456	-.456	0	%100
4	M7	Z	.789	.789	0	%100
5	M10A	X	-.127	-.127	0	%100
6	M10A	Z	.22	.22	0	%100
7	M12	X	-.113	-.113	0	%100
8	M12	Z	.196	.196	0	%100
9	M13	X	-.086	-.086	0	%100
10	M13	Z	.15	.15	0	%100
11	M24A	X	-.127	-.127	0	%100
12	M24A	Z	.22	.22	0	%100
13	M24B	X	-.113	-.113	0	%100
14	M24B	Z	.196	.196	0	%100
15	M25A	X	-.508	-.508	0	%100
16	M25A	Z	.88	.88	0	%100
17	M25B	X	-.086	-.086	0	%100
18	M25B	Z	.15	.15	0	%100
19	M26	X	-.456	-.456	0	%100
20	M26	Z	.789	.789	0	%100
21	M27	X	-.456	-.456	0	%100
22	M27	Z	.789	.789	0	%100
23	M28	X	0	0	0	%100
24	M28	Z	0	0	0	%100
25	M28A	X	-.452	-.452	0	%100
26	M28A	Z	.782	.782	0	%100
27	M29	X	0	0	0	%100
28	M29	Z	0	0	0	%100
29	M29A	X	-.345	-.345	0	%100
30	M29A	Z	.598	.598	0	%100
31	MP1A	X	-.288	-.288	0	%100
32	MP1A	Z	.5	.5	0	%100
33	MP1B	X	-.288	-.288	0	%100
34	MP1B	Z	.5	.5	0	%100
35	MP1C	X	-.288	-.288	0	%100
36	MP1C	Z	.5	.5	0	%100
37	MP2A	X	-.349	-.349	0	%100
38	MP2A	Z	.605	.605	0	%100
39	MP2B	X	-.349	-.349	0	%100
40	MP2B	Z	.605	.605	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
41	MP2C	X	-.349	-.349	0	%100
42	MP2C	Z	.605	.605	0	%100
43	MP3A	X	-.288	-.288	0	%100
44	MP3A	Z	.5	.5	0	%100
45	MP3B	X	-.288	-.288	0	%100
46	MP3B	Z	.5	.5	0	%100
47	MP3C	X	-.288	-.288	0	%100
48	MP3C	Z	.5	.5	0	%100
49	MP4A	X	-.288	-.288	0	%100
50	MP4A	Z	.5	.5	0	%100
51	MP4B	X	-.288	-.288	0	%100
52	MP4B	Z	.5	.5	0	%100
53	MP4C	X	-.288	-.288	0	%100
54	MP4C	Z	.5	.5	0	%100
55	OVP1	X	-.296	-.296	0	%100
56	OVP1	Z	.512	.512	0	%100
57	M59	X	-.216	-.216	0	%100
58	M59	Z	.375	.375	0	%100
59	M60	X	-.216	-.216	0	%100
60	M60	Z	.375	.375	0	%100
61	M61	X	0	0	0	%100
62	M61	Z	0	0	0	%100
63	M62	X	-.228	-.228	0	%100
64	M62	Z	.394	.394	0	%100
65	M63	X	-.49	-.49	0	%100
66	M63	Z	.849	.849	0	%100
67	M64	X	-.49	-.49	0	%100
68	M64	Z	.849	.849	0	%100
69	M65	X	-.228	-.228	0	%100
70	M65	Z	.394	.394	0	%100
71	M66	X	-.344	-.344	0	%100
72	M66	Z	.596	.596	0	%100
73	M67	X	-.344	-.344	0	%100
74	M67	Z	.596	.596	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	-.263	-.263	0	%100
2	M5	Z	.152	.152	0	%100
3	M7	X	-.263	-.263	0	%100
4	M7	Z	.152	.152	0	%100
5	M10A	X	-.66	-.66	0	%100
6	M10A	Z	.381	.381	0	%100
7	M12	X	-.587	-.587	0	%100
8	M12	Z	.339	.339	0	%100
9	M13	X	-.449	-.449	0	%100
10	M13	Z	.259	.259	0	%100
11	M24A	X	0	0	0	%100
12	M24A	Z	0	0	0	%100
13	M24B	X	0	0	0	%100
14	M24B	Z	0	0	0	%100
15	M25A	X	-.66	-.66	0	%100
16	M25A	Z	.381	.381	0	%100
17	M25B	X	0	0	0	%100
18	M25B	Z	0	0	0	%100
19	M26	X	-1.052	-1.052	0	%100
20	M26	Z	.607	.607	0	%100
21	M27	X	-1.052	-1.052	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
22	M27	Z	.607	.607	0	%100
23	M28	X	-.263	-.263	0	%100
24	M28	Z	.152	.152	0	%100
25	M28A	X	-.587	-.587	0	%100
26	M28A	Z	.339	.339	0	%100
27	M29	X	-.263	-.263	0	%100
28	M29	Z	.152	.152	0	%100
29	M29A	X	-.449	-.449	0	%100
30	M29A	Z	.259	.259	0	%100
31	MP1A	X	-.5	-.5	0	%100
32	MP1A	Z	.288	.288	0	%100
33	MP1B	X	-.5	-.5	0	%100
34	MP1B	Z	.288	.288	0	%100
35	MP1C	X	-.5	-.5	0	%100
36	MP1C	Z	.288	.288	0	%100
37	MP2A	X	-.605	-.605	0	%100
38	MP2A	Z	.349	.349	0	%100
39	MP2B	X	-.605	-.605	0	%100
40	MP2B	Z	.349	.349	0	%100
41	MP2C	X	-.605	-.605	0	%100
42	MP2C	Z	.349	.349	0	%100
43	MP3A	X	-.5	-.5	0	%100
44	MP3A	Z	.288	.288	0	%100
45	MP3B	X	-.5	-.5	0	%100
46	MP3B	Z	.288	.288	0	%100
47	MP3C	X	-.5	-.5	0	%100
48	MP3C	Z	.288	.288	0	%100
49	MP4A	X	-.5	-.5	0	%100
50	MP4A	Z	.288	.288	0	%100
51	MP4B	X	-.5	-.5	0	%100
52	MP4B	Z	.288	.288	0	%100
53	MP4C	X	-.5	-.5	0	%100
54	MP4C	Z	.288	.288	0	%100
55	OVP1	X	-.512	-.512	0	%100
56	OVP1	Z	.296	.296	0	%100
57	M59	X	-.125	-.125	0	%100
58	M59	Z	.072	.072	0	%100
59	M60	X	-.5	-.5	0	%100
60	M60	Z	.288	.288	0	%100
61	M61	X	-.125	-.125	0	%100
62	M61	Z	.072	.072	0	%100
63	M62	X	-.377	-.377	0	%100
64	M62	Z	.218	.218	0	%100
65	M63	X	-.832	-.832	0	%100
66	M63	Z	.481	.481	0	%100
67	M64	X	-.63	-.63	0	%100
68	M64	Z	.364	.364	0	%100
69	M65	X	-.63	-.63	0	%100
70	M65	Z	.364	.364	0	%100
71	M66	X	-.832	-.832	0	%100
72	M66	Z	.481	.481	0	%100
73	M67	X	-.377	-.377	0	%100
74	M67	Z	.218	.218	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	0	0	0	%100
2	M5	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
3	M7	X	0	0	0	%100
4	M7	Z	0	0	0	%100
5	M10A	X	-1.016	-1.016	0	%100
6	M10A	Z	0	0	0	%100
7	M12	X	-.903	-.903	0	%100
8	M12	Z	0	0	0	%100
9	M13	X	-.691	-.691	0	%100
10	M13	Z	0	0	0	%100
11	M24A	X	-.254	-.254	0	%100
12	M24A	Z	0	0	0	%100
13	M24B	X	-.226	-.226	0	%100
14	M24B	Z	0	0	0	%100
15	M25A	X	-.254	-.254	0	%100
16	M25A	Z	0	0	0	%100
17	M25B	X	-.173	-.173	0	%100
18	M25B	Z	0	0	0	%100
19	M26	X	-.911	-.911	0	%100
20	M26	Z	0	0	0	%100
21	M27	X	-.911	-.911	0	%100
22	M27	Z	0	0	0	%100
23	M28	X	-.911	-.911	0	%100
24	M28	Z	0	0	0	%100
25	M28A	X	-.226	-.226	0	%100
26	M28A	Z	0	0	0	%100
27	M29	X	-.911	-.911	0	%100
28	M29	Z	0	0	0	%100
29	M29A	X	-.173	-.173	0	%100
30	M29A	Z	0	0	0	%100
31	MP1A	X	-.577	-.577	0	%100
32	MP1A	Z	0	0	0	%100
33	MP1B	X	-.577	-.577	0	%100
34	MP1B	Z	0	0	0	%100
35	MP1C	X	-.577	-.577	0	%100
36	MP1C	Z	0	0	0	%100
37	MP2A	X	-.698	-.698	0	%100
38	MP2A	Z	0	0	0	%100
39	MP2B	X	-.698	-.698	0	%100
40	MP2B	Z	0	0	0	%100
41	MP2C	X	-.698	-.698	0	%100
42	MP2C	Z	0	0	0	%100
43	MP3A	X	-.577	-.577	0	%100
44	MP3A	Z	0	0	0	%100
45	MP3B	X	-.577	-.577	0	%100
46	MP3B	Z	0	0	0	%100
47	MP3C	X	-.577	-.577	0	%100
48	MP3C	Z	0	0	0	%100
49	MP4A	X	-.577	-.577	0	%100
50	MP4A	Z	0	0	0	%100
51	MP4B	X	-.577	-.577	0	%100
52	MP4B	Z	0	0	0	%100
53	MP4C	X	-.577	-.577	0	%100
54	MP4C	Z	0	0	0	%100
55	OVP1	X	-.592	-.592	0	%100
56	OVP1	Z	0	0	0	%100
57	M59	X	0	0	0	%100
58	M59	Z	0	0	0	%100
59	M60	X	-.433	-.433	0	%100
60	M60	Z	0	0	0	%100
61	M61	X	-.433	-.433	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
62	M61	Z	0	0	0	%100
63	M62	X	-.689	-.689	0	%100
64	M62	Z	0	0	0	%100
65	M63	X	-.689	-.689	0	%100
66	M63	Z	0	0	0	%100
67	M64	X	-.455	-.455	0	%100
68	M64	Z	0	0	0	%100
69	M65	X	-.981	-.981	0	%100
70	M65	Z	0	0	0	%100
71	M66	X	-.981	-.981	0	%100
72	M66	Z	0	0	0	%100
73	M67	X	-.455	-.455	0	%100
74	M67	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	-.263	-.263	0	%100
2	M5	Z	-.152	-.152	0	%100
3	M7	X	-.263	-.263	0	%100
4	M7	Z	-.152	-.152	0	%100
5	M10A	X	-.66	-.66	0	%100
6	M10A	Z	-.381	-.381	0	%100
7	M12	X	-.587	-.587	0	%100
8	M12	Z	-.339	-.339	0	%100
9	M13	X	-.449	-.449	0	%100
10	M13	Z	-.259	-.259	0	%100
11	M24A	X	-.66	-.66	0	%100
12	M24A	Z	-.381	-.381	0	%100
13	M24B	X	-.587	-.587	0	%100
14	M24B	Z	-.339	-.339	0	%100
15	M25A	X	0	0	0	%100
16	M25A	Z	0	0	0	%100
17	M25B	X	-.449	-.449	0	%100
18	M25B	Z	-.259	-.259	0	%100
19	M26	X	-.263	-.263	0	%100
20	M26	Z	-.152	-.152	0	%100
21	M27	X	-.263	-.263	0	%100
22	M27	Z	-.152	-.152	0	%100
23	M28	X	-1.052	-1.052	0	%100
24	M28	Z	-.607	-.607	0	%100
25	M28A	X	0	0	0	%100
26	M28A	Z	0	0	0	%100
27	M29	X	-1.052	-1.052	0	%100
28	M29	Z	-.607	-.607	0	%100
29	M29A	X	0	0	0	%100
30	M29A	Z	0	0	0	%100
31	MP1A	X	-.5	-.5	0	%100
32	MP1A	Z	-.288	-.288	0	%100
33	MP1B	X	-.5	-.5	0	%100
34	MP1B	Z	-.288	-.288	0	%100
35	MP1C	X	-.5	-.5	0	%100
36	MP1C	Z	-.288	-.288	0	%100
37	MP2A	X	-.605	-.605	0	%100
38	MP2A	Z	-.349	-.349	0	%100
39	MP2B	X	-.605	-.605	0	%100
40	MP2B	Z	-.349	-.349	0	%100
41	MP2C	X	-.605	-.605	0	%100
42	MP2C	Z	-.349	-.349	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
43	MP3A	X	-.5	-.5	0	%100
44	MP3A	Z	-.288	-.288	0	%100
45	MP3B	X	-.5	-.5	0	%100
46	MP3B	Z	-.288	-.288	0	%100
47	MP3C	X	-.5	-.5	0	%100
48	MP3C	Z	-.288	-.288	0	%100
49	MP4A	X	-.5	-.5	0	%100
50	MP4A	Z	-.288	-.288	0	%100
51	MP4B	X	-.5	-.5	0	%100
52	MP4B	Z	-.288	-.288	0	%100
53	MP4C	X	-.5	-.5	0	%100
54	MP4C	Z	-.288	-.288	0	%100
55	OVP1	X	-.512	-.512	0	%100
56	OVP1	Z	-.296	-.296	0	%100
57	M59	X	-.125	-.125	0	%100
58	M59	Z	-.072	-.072	0	%100
59	M60	X	-.125	-.125	0	%100
60	M60	Z	-.072	-.072	0	%100
61	M61	X	-.5	-.5	0	%100
62	M61	Z	-.288	-.288	0	%100
63	M62	X	-.832	-.832	0	%100
64	M62	Z	-.481	-.481	0	%100
65	M63	X	-.377	-.377	0	%100
66	M63	Z	-.218	-.218	0	%100
67	M64	X	-.377	-.377	0	%100
68	M64	Z	-.218	-.218	0	%100
69	M65	X	-.832	-.832	0	%100
70	M65	Z	-.481	-.481	0	%100
71	M66	X	-.63	-.63	0	%100
72	M66	Z	-.364	-.364	0	%100
73	M67	X	-.63	-.63	0	%100
74	M67	Z	-.364	-.364	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	-.456	-.456	0	%100
2	M5	Z	-.789	-.789	0	%100
3	M7	X	-.456	-.456	0	%100
4	M7	Z	-.789	-.789	0	%100
5	M10A	X	-.127	-.127	0	%100
6	M10A	Z	-.22	-.22	0	%100
7	M12	X	-.113	-.113	0	%100
8	M12	Z	-.196	-.196	0	%100
9	M13	X	-.086	-.086	0	%100
10	M13	Z	-.15	-.15	0	%100
11	M24A	X	-.508	-.508	0	%100
12	M24A	Z	-.88	-.88	0	%100
13	M24B	X	-.452	-.452	0	%100
14	M24B	Z	-.782	-.782	0	%100
15	M25A	X	-.127	-.127	0	%100
16	M25A	Z	-.22	-.22	0	%100
17	M25B	X	-.345	-.345	0	%100
18	M25B	Z	-.598	-.598	0	%100
19	M26	X	0	0	0	%100
20	M26	Z	0	0	0	%100
21	M27	X	0	0	0	%100
22	M27	Z	0	0	0	%100
23	M28	X	-.456	-.456	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
24	M28	Z	-.789	-.789	0	%100
25	M28A	X	-.113	-.113	0	%100
26	M28A	Z	-.196	-.196	0	%100
27	M29	X	-.456	-.456	0	%100
28	M29	Z	-.789	-.789	0	%100
29	M29A	X	-.086	-.086	0	%100
30	M29A	Z	-.15	-.15	0	%100
31	MP1A	X	-.288	-.288	0	%100
32	MP1A	Z	-.5	-.5	0	%100
33	MP1B	X	-.288	-.288	0	%100
34	MP1B	Z	-.5	-.5	0	%100
35	MP1C	X	-.288	-.288	0	%100
36	MP1C	Z	-.5	-.5	0	%100
37	MP2A	X	-.349	-.349	0	%100
38	MP2A	Z	-.605	-.605	0	%100
39	MP2B	X	-.349	-.349	0	%100
40	MP2B	Z	-.605	-.605	0	%100
41	MP2C	X	-.349	-.349	0	%100
42	MP2C	Z	-.605	-.605	0	%100
43	MP3A	X	-.288	-.288	0	%100
44	MP3A	Z	-.5	-.5	0	%100
45	MP3B	X	-.288	-.288	0	%100
46	MP3B	Z	-.5	-.5	0	%100
47	MP3C	X	-.288	-.288	0	%100
48	MP3C	Z	-.5	-.5	0	%100
49	MP4A	X	-.288	-.288	0	%100
50	MP4A	Z	-.5	-.5	0	%100
51	MP4B	X	-.288	-.288	0	%100
52	MP4B	Z	-.5	-.5	0	%100
53	MP4C	X	-.288	-.288	0	%100
54	MP4C	Z	-.5	-.5	0	%100
55	OVP1	X	-.296	-.296	0	%100
56	OVP1	Z	-.512	-.512	0	%100
57	M59	X	-.216	-.216	0	%100
58	M59	Z	-.375	-.375	0	%100
59	M60	X	0	0	0	%100
60	M60	Z	0	0	0	%100
61	M61	X	-.216	-.216	0	%100
62	M61	Z	-.375	-.375	0	%100
63	M62	X	-.49	-.49	0	%100
64	M62	Z	-.849	-.849	0	%100
65	M63	X	-.228	-.228	0	%100
66	M63	Z	-.394	-.394	0	%100
67	M64	X	-.344	-.344	0	%100
68	M64	Z	-.596	-.596	0	%100
69	M65	X	-.344	-.344	0	%100
70	M65	Z	-.596	-.596	0	%100
71	M66	X	-.228	-.228	0	%100
72	M66	Z	-.394	-.394	0	%100
73	M67	X	-.49	-.49	0	%100
74	M67	Z	-.849	-.849	0	%100

Member Distributed Loads (BLC 87 : BLC 39 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	Y	-1.039	-2.61	0	2.278
2	M5	Y	-2.61	-4.635	2.278	4.556
3	M5	Y	-4.635	-5.875	4.556	6.833
4	M5	Y	-5.875	-4.635	6.833	9.111

Member Distributed Loads (BLC 87 : BLC 39 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
5	M5	Y	-4.635	-2.61	9.111	11.389
6	M5	Y	-2.61	-1.039	11.389	13.667
7	M7	Y	-5.002	-5.002	.011	7.089
8	M24A	Y	-.997	-4.801	0	1.896
9	M24A	Y	-4.801	-8.605	1.896	3.792
10	M25A	Y	-.997	-4.801	0	1.896
11	M25A	Y	-4.801	-8.605	1.896	3.792
12	M10A	Y	-.997	-4.801	0	1.896
13	M10A	Y	-4.801	-8.605	1.896	3.792
14	M28	Y	-5.002	-5.002	.011	7.089
15	M29	Y	-1.039	-2.61	0	2.278
16	M29	Y	-2.61	-4.635	2.278	4.556
17	M29	Y	-4.635	-5.875	4.556	6.833
18	M29	Y	-5.875	-4.635	6.833	9.111
19	M29	Y	-4.635	-2.61	9.111	11.389
20	M29	Y	-2.61	-1.039	11.389	13.667
21	M26	Y	-5.002	-5.002	.011	7.089
22	M27	Y	-1.039	-2.61	0	2.278
23	M27	Y	-2.61	-4.635	2.278	4.556
24	M27	Y	-4.635	-5.875	4.556	6.833
25	M27	Y	-5.875	-4.635	6.833	9.111
26	M27	Y	-4.635	-2.61	9.111	11.389
27	M27	Y	-2.61	-1.039	11.389	13.667

Member Distributed Loads (BLC 88 : BLC 40 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	Y	-1.967	-4.943	0	2.278
2	M5	Y	-4.943	-8.778	2.278	4.556
3	M5	Y	-8.778	-11.126	4.556	6.833
4	M5	Y	-11.126	-8.778	6.833	9.111
5	M5	Y	-8.778	-4.943	9.111	11.389
6	M5	Y	-4.943	-1.967	11.389	13.667
7	M7	Y	-9.472	-9.472	.011	7.089
8	M24A	Y	-1.889	-9.093	0	1.896
9	M24A	Y	-9.093	-16.297	1.896	3.792
10	M25A	Y	-1.889	-9.093	0	1.896
11	M25A	Y	-9.093	-16.297	1.896	3.792
12	M10A	Y	-1.889	-9.093	0	1.896
13	M10A	Y	-9.093	-16.297	1.896	3.792
14	M28	Y	-9.472	-9.472	.011	7.089
15	M29	Y	-1.967	-4.943	0	2.278
16	M29	Y	-4.943	-8.778	2.278	4.556
17	M29	Y	-8.778	-11.126	4.556	6.833
18	M29	Y	-11.126	-8.778	6.833	9.111
19	M29	Y	-8.778	-4.943	9.111	11.389
20	M29	Y	-4.943	-1.967	11.389	13.667
21	M26	Y	-9.472	-9.472	.011	7.089
22	M27	Y	-1.967	-4.943	0	2.278
23	M27	Y	-4.943	-8.778	2.278	4.556
24	M27	Y	-8.778	-11.126	4.556	6.833
25	M27	Y	-11.126	-8.778	6.833	9.111
26	M27	Y	-8.778	-4.943	9.111	11.389
27	M27	Y	-4.943	-1.967	11.389	13.667

Member Distributed Loads (BLC 89 : BLC 84 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	Y	-.044	-.111	0	2.278
2	M5	Y	-.111	-.198	2.278	4.556

Member Distributed Loads (BLC 89 : BLC 84 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
3	M5	Y	-.198	-.251	4.556	6.833
4	M5	Y	-.251	-.198	6.833	9.111
5	M5	Y	-.198	-.111	9.111	11.389
6	M5	Y	-.111	-.044	11.389	13.667
7	M7	Y	-.214	-.214	.011	7.089
8	M24A	Y	-.043	-.205	0	1.896
9	M24A	Y	-.205	-.367	1.896	3.792
10	M25A	Y	-.043	-.205	0	1.896
11	M25A	Y	-.205	-.367	1.896	3.792
12	M10A	Y	-.043	-.205	0	1.896
13	M10A	Y	-.205	-.367	1.896	3.792
14	M28	Y	-.214	-.214	.011	7.089
15	M29	Y	-.044	-.111	0	2.278
16	M29	Y	-.111	-.198	2.278	4.556
17	M29	Y	-.198	-.251	4.556	6.833
18	M29	Y	-.251	-.198	6.833	9.111
19	M29	Y	-.198	-.111	9.111	11.389
20	M29	Y	-.111	-.044	11.389	13.667
21	M26	Y	-.214	-.214	.011	7.089
22	M27	Y	-.044	-.111	0	2.278
23	M27	Y	-.111	-.198	2.278	4.556
24	M27	Y	-.198	-.251	4.556	6.833
25	M27	Y	-.251	-.198	6.833	9.111
26	M27	Y	-.198	-.111	9.111	11.389
27	M27	Y	-.111	-.044	11.389	13.667

Member Distributed Loads (BLC 90 : BLC 85 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	Z	-.111	-.279	0	2.278
2	M5	Z	-.279	-.495	2.278	4.556
3	M5	Z	-.495	-.627	4.556	6.833
4	M5	Z	-.627	-.495	6.833	9.111
5	M5	Z	-.495	-.279	9.111	11.389
6	M5	Z	-.279	-.111	11.389	13.667
7	M7	Z	-.534	-.534	.011	7.089
8	M24A	Z	-.106	-.512	0	1.896
9	M24A	Z	-.512	-.918	1.896	3.792
10	M25A	Z	-.106	-.512	0	1.896
11	M25A	Z	-.512	-.918	1.896	3.792
12	M10A	Z	-.106	-.512	0	1.896
13	M10A	Z	-.512	-.918	1.896	3.792
14	M28	Z	-.534	-.534	.011	7.089
15	M29	Z	-.111	-.279	0	2.278
16	M29	Z	-.279	-.495	2.278	4.556
17	M29	Z	-.495	-.627	4.556	6.833
18	M29	Z	-.627	-.495	6.833	9.111
19	M29	Z	-.495	-.279	9.111	11.389
20	M29	Z	-.279	-.111	11.389	13.667
21	M26	Z	-.534	-.534	.011	7.089
22	M27	Z	-.111	-.279	0	2.278
23	M27	Z	-.279	-.495	2.278	4.556
24	M27	Z	-.495	-.627	4.556	6.833
25	M27	Z	-.627	-.495	6.833	9.111
26	M27	Z	-.495	-.279	9.111	11.389
27	M27	Z	-.279	-.111	11.389	13.667

Member Distributed Loads (BLC 91 : BLC 86 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]

Member Distributed Loads (BLC 91 : BLC 86 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	.111	.279	0	2.278
2	M5	X	.279	.495	2.278	4.556
3	M5	X	.495	.627	4.556	6.833
4	M5	X	.627	.495	6.833	9.111
5	M5	X	.495	.279	9.111	11.389
6	M5	X	.279	.111	11.389	13.667
7	M7	X	.534	.534	.011	7.089
8	M24A	X	.106	.512	0	1.896
9	M24A	X	.512	.918	1.896	3.792
10	M25A	X	.106	.512	0	1.896
11	M25A	X	.512	.918	1.896	3.792
12	M10A	X	.106	.512	0	1.896
13	M10A	X	.512	.918	1.896	3.792
14	M28	X	.534	.534	.011	7.089
15	M29	X	.111	.279	0	2.278
16	M29	X	.279	.495	2.278	4.556
17	M29	X	.495	.627	4.556	6.833
18	M29	X	.627	.495	6.833	9.111
19	M29	X	.495	.279	9.111	11.389
20	M29	X	.279	.111	11.389	13.667
21	M26	X	.534	.534	.011	7.089
22	M27	X	.111	.279	0	2.278
23	M27	X	.279	.495	2.278	4.556
24	M27	X	.495	.627	4.556	6.833
25	M27	X	.627	.495	6.833	9.111
26	M27	X	.495	.279	9.111	11.389
27	M27	X	.279	.111	11.389	13.667

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N41B	N39A	N40A	N42A	Y	Two Way	-.005
2	N39A	N5	N39	N40A	Y	Two Way	-.005
3	N5	N41B	N42A	N39	Y	Two Way	-.005

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N41B	N39A	N40A	N42A	Y	Two Way	-.01
2	N39A	N5	N39	N40A	Y	Two Way	-.01
3	N5	N41B	N42A	N39	Y	Two Way	-.01

Member Area Loads (BLC 84 : Structure Ev)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N41B	N39A	N40A	N42A	Y	Two Way	-.000222
2	N39A	N5	N39	N40A	Y	Two Way	-.000222
3	N5	N41B	N42A	N39	Y	Two Way	-.000222

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N41B	N39A	N40A	N42A	Z	Two Way	-.000555
2	N39A	N5	N39	N40A	Z	Two Way	-.000555
3	N5	N41B	N42A	N39	Z	Two Way	-.000555

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N41B	N39A	N40A	N42A	X	Two Way	.000555

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
2	N39A	N5	N39	N40A	X	Two Way	.000555
3	N5	N41B	N42A	N39	X	Two Way	.000555

Envelope Joint Reactions

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N1	max	1780.061	9	1317.318	13	1194.454	1	-.779	64	1.357	12	.524	5
2		min	-1771.182	3	304.538	7	-1752.403	7	-2.529	19	-1.334	6	-.563	11
3	N2	max	1452.339	10	1207.757	21	1857.934	2	1.247	13	1.465	4	2.096	17
4		min	-1925.004	4	310.282	3	-1557.385	8	.126	7	-1.463	10	.643	75
5	N3	max	1940.295	10	1231.864	17	2015.209	12	1.342	15	1.425	12	-.627	65
6		min	-1456.433	4	227.203	11	-1679.62	6	.12	9	-1.373	6	-2.033	21
7	N106	max	260.247	35	1108.322	19	867.891	19	.002	25	.002	31	.001	31
8		min	-240.98	50	70.477	1	99.346	1	0	7	-.001	50	0	50
9	N109	max	769.19	15	1102.437	15	-54.238	9	0	3	0	4	0	66
10		min	95.773	9	83.229	9	-393.76	15	-.001	33	0	34	-.002	20
11	N112	max	-74.11	5	1216.654	23	-3.08	5	0	6	.001	11	.002	5
12		min	-751.567	23	30.496	5	-616.939	23	-.001	50	0	5	0	11
13	Totals:	max	4623.836	10	6707.263	21	4597.859	1						
14		min	-4623.845	4	2219.349	65	-4597.873	7						

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	M5	L3X3X4	.531	13.667	8	.270	13.667	z	1	4139.295	46656	1.688	2.699	1....	H2-1
2	M7	L3X3X4	.176	3.55	12	.010	3.55	y	22	15339.799	46656	1.688	3.286	1....	H2-1
3	M10A	LL3x3x4x0	.105	0	11	.013	3.792	z	4	76495.013	93312	6.48	4.366	1....	H1-1b
4	M12	HSS4.5X4.5X3	.094	1.876	16	.046	1.876	y	28	119816.0...	121302	16.25	16.25	2....	H1-1b
5	M13	HSS4X4X4	.182	.917	20	.087	.917	z	11	139028.2...	139518	16.181	16.181	1....	H1-1b
6	M24A	LL3x3x4x0	.090	0	12	.011	3.792	z	12	76495.013	93312	6.48	4.366	2....	H1-1b
7	M24B	HSS4.5X4.5X3	.091	1.876	24	.040	1.979	z	5	119816.0...	121302	16.25	16.25	1....	H1-1b
8	M25A	LL3x3x4x0	.093	0	32	.012	3.792	y	26	76495.013	93312	6.48	4.366	1....	H1-1b
9	M25B	HSS4X4X4	.173	.917	16	.077	.917	z	5	139028.2...	139518	16.181	16.181	1....	H1-1b
10	M26	L3X3X4	.184	3.55	17	.010	3.55	y	17	15339.799	46656	1.688	3.23	1....	H2-1
11	M27	L3X3X4	.527	13.667	4	.271	13.667	z	9	4139.295	46656	1.688	2.783	1....	H2-1
12	M28	L3X3X4	.188	3.55	4	.010	3.55	y	14	15339.799	46656	1.688	3.294	1....	H2-1
13	M28A	HSS4.5X4.5X3	.090	1.876	20	.045	1.979	z	3	119816.0...	121302	16.25	16.25	1....	H1-1b
14	M29	L3X3X4	.642	13.667	11	.349	13.667	z	5	4139.295	46656	1.688	2.558	1....	H2-1
15	M29A	HSS4X4X4	.173	.917	24	.086	.917	z	3	139028.2...	139518	16.181	16.181	1....	H1-1b
16	MP1A	PIPE_2.0	.299	5.313	31	.168	3.875		31	20866.733	32130	1.872	1.872	3....	H1-1b
17	MP1B	PIPE_2.0	.209	5.313	23	.121	3.875		50	20866.733	32130	1.872	1.872	3....	H1-1b
18	MP1C	PIPE_2.0	.221	5.313	15	.130	3.875		15	20866.733	32130	1.872	1.872	2....	H1-1b
19	MP2A	PIPE_2.5	.259	3.813	7	.104	4.188		30	37773.818	50715	3.596	3.596	2....	H1-1b
20	MP2B	PIPE_2.5	.259	3.813	11	.054	3.813		10	37773.818	50715	3.596	3.596	1....	H1-1b
21	MP2C	PIPE_2.5	.259	3.813	3	.054	3.813		2	37773.818	50715	3.596	3.596	1....	H1-1b
22	MP3A	PIPE_2.0	.212	5.313	50	.089	3.875		50	20866.733	32130	1.872	1.872	4....	H1-1b
23	MP3B	PIPE_2.0	.238	5.313	24	.096	3.875		5	20866.733	32130	1.872	1.872	1....	H1-1b
24	MP3C	PIPE_2.0	.202	5.313	16	.080	3.875		9	20866.733	32130	1.872	1.872	3....	H1-1b
25	MP4A	PIPE_2.0	.152	3.813	7	.065	3.875		7	20866.733	32130	1.872	1.872	3....	H1-1b
26	MP4B	PIPE_2.0	.152	3.813	11	.062	3.875		11	20866.733	32130	1.872	1.872	1....	H1-1b
27	MP4C	PIPE_2.0	.152	3.813	3	.064	3.875		3	20866.733	32130	1.872	1.872	1.9	H1-1b
28	OVP1	PIPE_3.0	.038	2.5	6	.008	2.5		6	63059.532	65205	5.749	5.749	2....	H1-1b
29	M59	PIPE_2.0	.278	6.5	31	.142	3.385		29	5820.472	32130	1.872	1.872	2....	H1-1b
30	M60	PIPE_2.0	.245	6.5	15	.095	3.385		16	5820.472	32130	1.872	1.872	2....	H1-1b
31	M61	PIPE_2.0	.270	10.698	23	.124	10.698		11	5820.472	32130	1.872	1.872	3....	H1-1b
32	M62	L2.5x2.5x4	.094	2.709	19	.011	0	y	50	15382.393	38556	1.114	2.219	1....	H2-1
33	M63	L2.5x2.5x4	.087	2.709	19	.017	0	z	32	15382.393	38556	1.114	2.219	1....	H2-1
34	M64	L2.5x2.5x4	.092	2.709	15	.010	0	z	8	15382.393	38556	1.114	2.219	1....	H2-1

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
35	M65	L2.5x2.5x4	.087	2.709	15	.011	5.307	z	16	15382.393	38556	1.114	2.219	1....	H2-1
36	M66	L2.5x2.5x4	.105	2.709	23	.013	5.307	z	5	15382.393	38556	1.114	2.219	1....	H2-1
37	M67	L2.5x2.5x4	.087	2.709	23	.011	0	z	24	15382.393	38556	1.114	2.219	1....	H2-1

VzW SMART Tool© Vendor

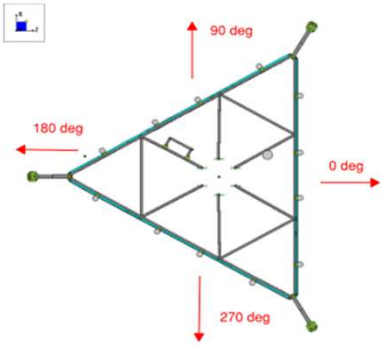
Client:	Verizon Wireless	Date:	7/6/2023
Site Name:	BERLIN 3 CT		
MDG #:	5000383751		
Fuze ID #:	17123862	Page:	1

Version 1.0

I. Mount-to-Tower Connection Check

Custom Orientation Required	Yes

Nodes (labeled per Risa)	Orientation (per graphic of typical platform)
N1	0
N2	120
N3	240



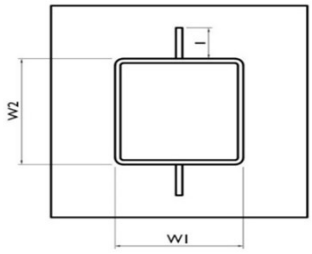
Tower Connection Bolt Checks	No
Tower Connection Baseplate Checks	No

Client:	Verizon Wireless	Date:	7/6/2023
Site Name:	BERLIN 3 CT		
MDG #:	5000383751		
Fuze ID #:	17123862	Page:	2

Version 1.0

Tower Connection Weld Checks	Yes

Weld Shape:	Rectangle
Weld Stiffener Configuration:	(1) Stiffener on top/bottom
Siffner Notch Present?	No
Stiffener length, l (in):	4
Weld Size (1/16 in):	3
W1 (in):	4
W2 (in):	4
Weld Total Length (in):	32.00
Z_x (in^3/in):	67.56
Z_y (in^3/in):	21.33
J_p (in^4/in):	362.67
c_x (in)	6
c_y (in)	6
Required combined strength (kip/in):	0.78
Weld Capacity (kip/in):	4.18
Weld Utilization:	**18.7%**



Date: **July 31, 2023**

MORRISON HERSHFIELD

Morrison Hershfield
1455 Lincoln Parkway, Suite 500
Atlanta, GA 30346
(770) 379-8500

Subject:	**Structural Analysis Report**	
Carrier Designation:	***Verizon Wireless* Co-Locate**	
	Site Number:	5000383751
	Site Name:	Berlin 3 CT
Crown Castle Designation:	**BU Number:**	876382
	Site Name:	Berlin / Laviana Orchard
	JDE Job Number:	751372
	Work Order Number:	2246059
	Order Number:	654615 Rev. 1
Engineering Firm Designation:	**Morrison Hershfield Project Number:** CN11-646R4 / 2300001	
Site Data:	**1684 Chamberlain Highway, Berlin, Hartford County, CT 6037**	
	Latitude *41° 35' 23.07"*, Longitude *-72° 48' 19.20"*	
	133 Foot – Summit Monopole Tower	

Morrison Hershfield 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 – 95.7%**

This analysis utilizes an ultimate 3-second gust wind speed of 118 mph as required by the 2022 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Respectfully submitted by:

G. Lance Cooke, P.E. (CT License No. PEN.0028133)
Senior Engineer

EXP 1/31/2024

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1) INTRODUCTION

This tower is a 123 ft Summit monopole tower designed by Paul J. Ford and Company and mapped by Tower Engineering Professionals, Inc., in August of 2018.

The tower was modified multiple times in the past to accommodate additional loading. All the modifications are considered in this analysis per their respective post modification inspection reports.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	118 mph
Exposure Category:	C
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)
93.0	94.0	3	antel	BXA-70063-4CF-EDIN-X w/ Mount Pipe	8	1-5/8
		3	commscope	NHH-65B-R2B		
		3	commscope	NHHSS-65B-R2BT4		
		3	samsung telecommunications	MT6407-77A w/ Mount Pipe		
		2	kaelus	BSF0020F3V1		
		3	samsung telecommunications	CBRS RT4401-48A		
		3	samsung telecommunications	RF4439D-25A		
		3	samsung telecommunications	RF4440D-13A		
		1	raycap	RVZDC-6627-PF-48		
	93.0	3	-	Dual Antenna Mounting Kit		
		1	-	Platform Mount [LP 1201-1_KCKR-HR-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)
132.0	132.0	3	cci antennas	TPA65R-BU8D_CCIV2 w/ Mount Pipe	6	1-1/4
		3	ericsson	RRUS 4415 B25	4	3/4
		3	ericsson	RRUS 4449 B5/B12	2	3/8
		3	kaelus	DBC0111F2V62-1	2	2C
		1	raycap	DC6-48-60-18-8C-EV		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
132.0	132.0	1	raycap	DC6-48-60-18-8F	-	-
		1	-	Side Arm Mount [SO 102-3]		
120.0	121.0	3	commscope	VV-65B-R1_TMO w/ Mount Pipe	3	1-5/8
		3	ericsson	AIR 6419 B41_TMO w/ Mount Pipe		
		3	rfs/celwave	APXVAALL24_43-U-NA20_TMO w/ Mount Pipe		
		3	ericsson	RADIO 4460 B2/B25 B66_TMO		
		3	ericsson	Radio 4480_TMOV2		
	120.0	1	-	Platform Mount [LP 1201-1_HR-1]		
110.0	111.0	3	jma wireless	MX08FRO665-21 w/ Mount Pipe	1	1-1/2
		3	fujitsu	TA08025-B604		
		3	fujitsu	TA08025-B605		
		1	raycap	RDIDC-9181-PF-48		
	110.0	1	tower mounts	Commscope MC-PK8-DSH		
75.0	75.0	3	rfs/celwave	APXV18-206517S-C w/ Mount Pipe	6	1-5/8
50.0	51.0	1	lucent	KS24019-L112A	1	1/2
	50.0	1	-	Side Arm Mount [SO 702-1]		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
4-GEOTECHNICAL REPORTS	1629353	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	1629413	CCISITES
4-TOWER MANUFACTURER DRAWINGS	1629384	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	2339268	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	2611098	CCISITES
4-POST-MODIFICATION INSPECTION	5287888	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	8173364	CCISITES
4-POST-MODIFICATION INSPECTION	8482047	CCISITES

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.

tnxTower was used to determine the loads on the modified structure. Additional calculations were performed to determine the stresses in the pole and in the reinforcing elements. These calculations are presented in Appendix C.

3.2) Assumptions

1) 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. Morrison Hershfield 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	% Capacity	Pass / Fail
L1	133 - 128	Pole	TP14x14x0.375	Pole	4.4	Pass
L2	128 - 123	Pole	TP14x14x0.375	Pole	10.0	Pass
L3	123 - 118	Pole	TP22.75x22x0.1875	Pole	12.2	Pass
L4	118 - 113	Pole	TP23.5x22.75x0.1875	Pole	20.2	Pass
L5	113 - 108	Pole	TP24.251x23.5x0.1875	Pole	30.1	Pass
L6	108 - 103	Pole	TP25.001x24.251x0.1875	Pole	40.6	Pass
L7	103 - 98	Pole	TP25.751x25.001x0.1875	Pole	50.3	Pass
L8	98 - 93	Pole	TP26.501x25.751x0.1875	Pole	59.4	Pass
L9	93 - 88	Pole	TP27.251x26.501x0.1875	Pole	73.0	Pass
L10	88 - 85.75	Pole	TP28.114x27.251x0.1875	Pole	78.3	Pass
L11	85.75 - 80.75	Pole	TP27.964x27.214x0.25	Pole	58.6	Pass
L12	80.75 - 75.75	Pole	TP28.714x27.964x0.25	Pole	65.3	Pass
L13	75.75 - 70.75	Pole	TP29.465x28.714x0.25	Pole	71.8	Pass
L14	70.75 - 65.75	Pole	TP30.215x29.465x0.25	Pole	77.7	Pass
L15	65.75 - 60.75	Pole	TP30.965x30.215x0.25	Pole	83.3	Pass
L16	60.75 - 57.75	Pole	TP31.415x30.965x0.25	Pole	86.5	Pass
L17	57.75 - 57.5	Pole + Reinf.	TP31.453x31.415x0.4625	Reinf. 2 Tension Rupture	75.2	Pass
L18	57.5 - 52.5	Pole + Reinf.	TP32.203x31.453x0.4563	Reinf. 2 Tension Rupture	79.8	Pass
L19	52.5 - 47.5	Pole + Reinf.	TP32.953x32.203x0.45	Reinf. 2 Tension Rupture	84.2	Pass
L20	47.5 - 45	Pole + Reinf.	TP33.966x32.953x0.45	Reinf. 2 Tension Rupture	86.3	Pass
L21	45 - 40	Pole + Reinf.	TP33.578x32.828x0.4813	Reinf. 2 Tension Rupture	86.4	Pass
L22	40 - 35	Pole + Reinf.	TP34.329x33.578x0.4688	Reinf. 2 Tension Rupture	90.0	Pass
L23	35 - 30	Pole + Reinf.	TP35.079x34.329x0.4688	Reinf. 2 Tension Rupture	93.3	Pass
L24	30 - 26.25	Pole + Reinf.	TP35.642x35.079x0.4688	Reinf. 2 Tension Rupture	95.7	Pass
L25	26.25 - 26	Pole + Reinf.	TP35.679x35.642x0.5188	Reinf. 1 Tension Rupture	81.4	Pass
L26	26 - 21	Pole + Reinf.	TP36.429x35.679x0.5063	Reinf. 1 Tension Rupture	84.1	Pass
L27	21 - 16	Pole + Reinf.	TP37.179x36.429x0.5063	Reinf. 1 Tension Rupture	86.6	Pass
L28	16 - 11	Pole + Reinf.	TP37.93x37.179x0.4938	Reinf. 1 Tension Rupture	88.9	Pass
L29	11 - 6	Pole + Reinf.	TP38.68x37.93x0.4938	Reinf. 1 Tension Rupture	91.2	Pass
L30	6 - 1	Pole + Reinf.	TP39.43x38.68x0.4875	Reinf. 1 Tension Rupture	93.2	Pass
L31	1 - 0	Pole + Reinf.	TP39.58x39.43x0.4875	Reinf. 1 Tension Rupture	93.6	Pass
					Summary	
				Pole	86.5	Pass
				Reinforcement	95.7	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
				Overall	95.7	Pass

Table 5 - Tower Component Stresses vs. Capacity – LC5

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Flange Connection	123.0	44.1	Pass
1	Anchor Rods	0	76.0	Pass
1	Base Plate		51.3	Pass
1	Base Foundation (Structure)	0	73.5	Pass
1	Base Foundation (Soil Interaction)		45.7	Pass

Structure Rating (max from all components) =	95.7%*

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.

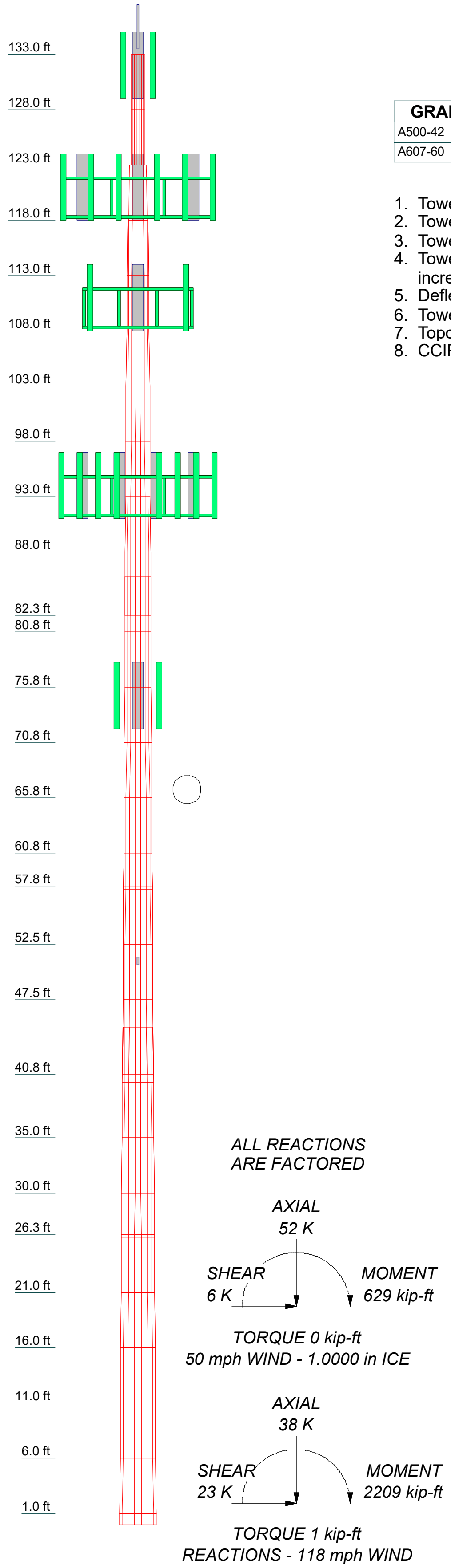
4.1) Recommendations

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

Section	Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (K)
1	5.00	0	0.3750		14.0000	14.0000	A500-42	0.3
2	5.00	0	0.3750		14.0000	14.0000		0.3
3	5.00	18	0.1875		22.0000	22.7502	A607-60	0.2
4	5.00	18	0.1875		22.7502	23.5004		0.2
5	5.00	18	0.1875		23.5004	24.2506		0.2
6	5.00	18	0.1875		24.2506	25.0007		0.2
7	5.00	18	0.1875		25.0007	25.7509		0.3
8	5.00	18	0.1875		25.7509	26.5011		0.3
9	5.00	18	0.1875		26.5011	27.2513		0.3
10	5.75	18	0.1875	3.50	27.2513	28.1140		0.3
11	5.00	18	0.2500		[illegible]	[illegible]		0.4
12	5.00	18	0.2500		27.9642	28.7143	A607-65	0.4
13	5.00	18	0.2500		28.7143	29.4646		0.4
14	5.00	18	0.2500		29.4646	30.2148		0.4
15	5.00	18	0.2500		30.2148	30.9651		0.4
16	3.00	18	[illegible]		[illegible]	[illegible]		0.3
17	0.25	18	[illegible]		[illegible]	[illegible]		0.0
18	5.00	18	[illegible]		[illegible]	[illegible]		0.7
19	5.00	18	0.4500		32.2029	32.9532		0.7
20	5.75	18	0.4500	4.25	32.9532	33.9660		1.0
21	5.00	18	0.4813		[illegible]	[illegible]		0.8
22	5.00	18	[illegible]		[illegible]	[illegible]		0.8
23	5.00	18	0.4688		34.3287	35.0789		0.8
24	3.75	18	[illegible]		[illegible]	[illegible]		0.6
25	0.25	18	[illegible]		[illegible]	[illegible]		0.0
26	5.00	18	[illegible]		[illegible]	[illegible]		0.9
27	5.00	18	0.5062		36.4292	37.1794		0.9
28	5.00	18	0.4938		37.1794	37.9296		1.0
29	5.00	18	0.4938		37.9296	38.6798		1.0
30	5.00	18	0.4875		38.6798	39.4300		1.0
31	1.00	18	0.4875		39.4300	39.5800		0.2
								15.4



MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A500-42	42 ksi	58 ksi	A607-65	65 ksi	80 ksi
A607-60	60 ksi	75 ksi			

TOWER DESIGN NOTES

1. Tower is located in Hartford County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 118 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 0.00 ft
8. CCIPOLE RATING: 95.7%

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Consulting Engineers

Job: **CN11-646R4 / 2300001**			
Project: **876382 / Berlin / Laviana Orchard**			
Client: Crown Castle USA	Drawn by: RP	App'd:	
Code: TIA-222-H	Date: 07/31/23	Scale: NTS	
Path:		Dwg No. E-1	

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 Hartford County, Connecticut.
Tower base elevation above sea level: 352.00 ft.
Basic wind speed of 118 mph.
Risk Category II.
Exposure Category C.
Simplified Topographic Factor Procedure for wind speed-up calculations is used.
Topographic Category: 1.
Crest Height: 0.00 ft.
Nominal ice thickness of 1.0000 in.
Ice thickness is considered to increase with height.
Ice density of 56 pcf.
A wind speed of 50 mph is used in combination with ice.
Temperature drop of 50 °F.
Deflections calculated using a wind speed of 60 mph.
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

	Consider Moments - Legs		Distribute Leg Loads As Uniform		Use ASCE 10 X-Brace Ly Rules
	Consider Moments - Horizontals		Assume Legs Pinned		Calculate Redundant Bracing Forces
	Consider Moments - Diagonals	√	Assume Rigid Index Plate		Ignore Redundant Members in FEA
	Use Moment Magnification	√	Use Clear Spans For Wind Area		SR Leg Bolts Resist Compression
√	Use Code Stress Ratios		Use Clear Spans For KL/r		All Leg Panels Have Same Allowable
√	Use Code Safety Factors - Guys		Retension Guys To Initial Tension		Offset Girt At Foundation
	Escalate Ice	√	Bypass Mast Stability Checks	√	Consider Feed Line Torque
	Always Use Max Kz	√	Use Azimuth Dish Coefficients		Include Angle Block Shear Check
	Use Special Wind Profile	√	Project Wind Area of Appurt.		Use TIA-222-H Bracing Resist. Exemption
	Include Bolts In Member Capacity		Autocalc Torque Arm Areas		Use TIA-222-H Tension Splice Exemption
	Leg Bolts Are At Top Of Section		Add IBC .6D+W Combination		Poles
	Secondary Horizontal Braces Leg		Sort Capacity Reports By Component	√	Include Shear-Torsion Interaction
	Use Diamond Inner Bracing (4 Sided)		Triangulate Diamond Inner Bracing		Always Use Sub-Critical Flow
	SR Members Have Cut Ends		Treat Feed Line Bundles As Cylinder		Use Top Mounted Sockets
	SR Members Are Concentric		Ignore KL/ry For 60 Deg. Angle Legs		Pole Without Linear Attachments
					Pole With Shroud Or No Appurtenances
					Outside and Inside Corner Radii Are Known

Tapered Pole Section Geometry

Section	Elevation	Section Length	Splice Length	Number of Sides	Top Diameter	Bottom Diameter	Wall Thickness	Bend Radius	Pole Grade
	ft	ft	ft		in	in	in	in	
L1	133.00-128.00	5.00	0.00	Round	14.0000	14.0000	0.3750		A500-42 (42 ksi)
L2	128.00-123.00	5.00	0.00	Round	14.0000	14.0000	0.3750		A500-42 (42 ksi)

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
L3	123.00-118.00	5.00	0.00	18	22.0000	22.7502	0.1875	0.7500	A607-60 (60 ksi)
L4	118.00-113.00	5.00	0.00	18	22.7502	23.5004	0.1875	0.7500	A607-60 (60 ksi)
L5	113.00-108.00	5.00	0.00	18	23.5004	24.2506	0.1875	0.7500	A607-60 (60 ksi)
L6	108.00-103.00	5.00	0.00	18	24.2506	25.0007	0.1875	0.7500	A607-60 (60 ksi)
L7	103.00-98.00	5.00	0.00	18	25.0007	25.7509	0.1875	0.7500	A607-60 (60 ksi)
L8	98.00-93.00	5.00	0.00	18	25.7509	26.5011	0.1875	0.7500	A607-60 (60 ksi)
L9	93.00-88.00	5.00	0.00	18	26.5011	27.2513	0.1875	0.7500	A607-60 (60 ksi)
L10	88.00-82.25	5.75	3.50	18	27.2513	28.1140	0.1875	0.7500	A607-60 (60 ksi)
L11	82.25-80.75	5.00	0.00	18	27.2139	27.9641	0.2500	1.0000	A607-65 (65 ksi)
L12	80.75-75.75	5.00	0.00	18	27.9641	28.7143	0.2500	1.0000	A607-65 (65 ksi)
L13	75.75-70.75	5.00	0.00	18	28.7143	29.4646	0.2500	1.0000	A607-65 (65 ksi)
L14	70.75-65.75	5.00	0.00	18	29.4646	30.2148	0.2500	1.0000	A607-65 (65 ksi)
L15	65.75-60.75	5.00	0.00	18	30.2148	30.9651	0.2500	1.0000	A607-65 (65 ksi)
L16	60.75-57.75	3.00	0.00	18	30.9651	31.4152	0.2500	1.0000	A607-65 (65 ksi)
L17	57.75-57.50	0.25	0.00	18	31.4152	31.4527	0.4625	1.8500	A607-65 (65 ksi)
L18	57.50-52.50	5.00	0.00	18	31.4527	32.2029	0.4562	1.8250	A607-65 (65 ksi)
L19	52.50-47.50	5.00	0.00	18	32.2029	32.9532	0.4500	1.8000	A607-65 (65 ksi)
L20	47.50-40.75	6.75	4.25	18	32.9532	33.9660	0.4500	1.8000	A607-65 (65 ksi)
L21	40.75-40.00	5.00	0.00	18	32.8283	33.5785	0.4813	1.9250	A607-65 (65 ksi)
L22	40.00-35.00	5.00	0.00	18	33.5785	34.3287	0.4688	1.8750	A607-65 (65 ksi)
L23	35.00-30.00	5.00	0.00	18	34.3287	35.0789	0.4688	1.8750	A607-65 (65 ksi)
L24	30.00-26.25	3.75	0.00	18	35.0789	35.6415	0.4688	1.8750	A607-65 (65 ksi)
L25	26.25-26.00	0.25	0.00	18	35.6415	35.6790	0.5188	2.0750	A607-65 (65 ksi)
L26	26.00-21.00	5.00	0.00	18	35.6790	36.4292	0.5062	2.0250	A607-65 (65 ksi)
L27	21.00-16.00	5.00	0.00	18	36.4292	37.1794	0.5062	2.0250	A607-65 (65 ksi)
L28	16.00-11.00	5.00	0.00	18	37.1794	37.9296	0.4938	1.9750	A607-65 (65 ksi)
L29	11.00-6.00	5.00	0.00	18	37.9296	38.6798	0.4938	1.9750	A607-65 (65 ksi)
L30	6.00-1.00	5.00	0.00	18	38.6798	39.4300	0.4875	1.9500	A607-65 (65 ksi)
L31	1.00-0.00	1.00		18	39.4300	39.5800	0.4875	1.9500	A607-65 (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	14.0000	16.0516	372.7602	4.8190	7.0000	53.2515	745.5204	8.0210	0.0000	0
	14.0000	16.0516	372.7602	4.8190	7.0000	53.2515	745.5204	8.0210	0.0000	0
L2	14.0000	16.0516	372.7602	4.8190	7.0000	53.2515	745.5204	8.0210	0.0000	0

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
	14.0000	16.0516	372.7602	4.8190	7.0000	53.2515	745.5204	8.0210	0.0000	0
L3	22.3105	12.9812	780.3007	7.7434	11.1760	69.8193	1561.6281	6.4918	3.5420	18.891
	23.0722	13.4276	863.6105	8.0098	11.5571	74.7256	1728.3574	6.7151	3.6740	19.595
L4	23.0722	13.4276	863.6105	8.0098	11.5571	74.7256	1728.3574	6.7151	3.6740	19.595
	23.8340	13.8741	952.6487	8.2761	11.9382	79.7984	1906.5509	6.9384	3.8061	20.299
L5	23.8340	13.8741	952.6487	8.2761	11.9382	79.7984	1906.5509	6.9384	3.8061	20.299
	24.5957	14.3205	1047.6055	8.5424	12.3193	85.0379	2096.5895	7.1616	3.9381	21.003
L6	24.5957	14.3205	1047.6055	8.5424	12.3193	85.0379	2096.5895	7.1616	3.9381	21.003
	25.3575	14.7670	1148.6716	8.8087	12.7004	90.4439	2298.8546	7.3849	4.0701	21.707
L7	25.3575	14.7670	1148.6716	8.8087	12.7004	90.4439	2298.8546	7.3849	4.0701	21.707
	26.1192	15.2134	1256.0373	9.0750	13.0815	96.0165	2513.7272	7.6082	4.2022	22.412
L8	26.1192	15.2134	1256.0373	9.0750	13.0815	96.0165	2513.7272	7.6082	4.2022	22.412
	26.8810	15.6599	1369.8931	9.3413	13.4626	101.7558	2741.5886	7.8314	4.3342	23.116
L9	26.8810	15.6599	1369.8931	9.3413	13.4626	101.7558	2741.5886	7.8314	4.3342	23.116
	27.6428	16.1063	1490.4294	9.6076	13.8437	107.6616	2982.8200	8.0547	4.4662	23.82
L10	27.6428	16.1063	1490.4294	9.6076	13.8437	107.6616	2982.8200	8.0547	4.4662	23.82
	28.5188	16.6198	1637.5523	9.9139	14.2819	114.6592	3277.2593	8.3115	4.6181	24.63
L11	28.1284	21.3958	1965.3102	9.5722	13.8246	142.1599	3933.2064	10.6999	4.3496	17.399
	28.3569	21.9911	2133.9640	9.8385	14.2058	150.2181	4270.7359	10.9977	4.4817	17.927
L12	28.3569	21.9911	2133.9640	9.8385	14.2058	150.2181	4270.7359	10.9977	4.4817	17.927
	29.1187	22.5865	2312.0005	10.1048	14.5869	158.4986	4627.0433	11.2954	4.6137	18.455
L13	29.1187	22.5865	2312.0005	10.1048	14.5869	158.4986	4627.0433	11.2954	4.6137	18.455
	29.8806	23.1818	2499.6739	10.3712	14.9680	167.0011	5002.6370	11.5931	4.7458	18.983
L14	29.8806	23.1818	2499.6739	10.3712	14.9680	167.0011	5002.6370	11.5931	4.7458	18.983
	30.6424	23.7771	2697.2381	10.6375	15.3491	175.7258	5398.0253	11.8908	4.8778	19.511
L15	30.6424	23.7771	2697.2381	10.6375	15.3491	175.7258	5398.0253	11.8908	4.8778	19.511
	31.4042	24.3724	2904.9471	10.9038	15.7302	184.6727	5813.7166	12.1885	5.0098	20.039
L16	31.4042	24.3724	2904.9471	10.9038	15.7302	184.6727	5813.7166	12.1885	5.0098	20.039
	31.8613	24.7296	3034.5476	11.0636	15.9589	190.1474	6073.0882	12.3671	5.0891	20.356
L17	31.8285	45.4378	5499.8589	10.9882	15.9589	344.6260	11006.9546	22.7232	4.7151	10.195
	31.8666	45.4928	5519.8791	11.0015	15.9780	345.4680	11047.0214	22.7507	4.7217	10.209
L18	31.8675	44.8871	5448.5814	11.0037	15.9780	341.0057	10904.3321	22.4478	4.7327	10.373
	32.6293	45.9736	5853.8660	11.2701	16.3591	357.8355	11715.4346	22.9912	4.8647	10.662
L19	32.6303	45.3527	5777.0867	11.2723	16.3591	353.1422	11561.7750	22.6807	4.8757	10.835
	33.3921	46.4243	6196.3290	11.5386	16.7402	370.1463	12400.8114	23.2166	5.0078	11.128
L20	33.3921	46.4243	6196.3290	11.5386	16.7402	370.1463	12400.8114	23.2166	5.0078	11.128
	34.4206	47.8709	6793.8105	11.8982	17.2547	393.7362	13596.5606	23.9400	5.1860	11.524
L21	33.9080	49.4097	6531.5930	11.4832	16.6768	391.6580	13071.7804	24.7096	4.9308	10.246
	34.0222	50.5556	6996.6536	11.7495	17.0579	410.1715	14002.5136	25.2826	5.0628	10.52
L22	34.0242	49.2611	6822.6467	11.7540	17.0579	399.9706	13654.2709	24.6352	5.0848	10.848
	34.7859	50.3772	7296.9892	12.0203	17.4390	418.4301	14603.5800	25.1934	5.2168	11.129
L23	34.7859	50.3772	7296.9892	12.0203	17.4390	418.4301	14603.5800	25.1934	5.2168	11.129
	35.5477	51.4934	7792.8231	12.2866	17.8201	437.3061	15595.9002	25.7516	5.3489	11.411
L24	35.5477	51.4934	7792.8231	12.2866	17.8201	437.3061	15595.9002	25.7516	5.3489	11.411
	36.1190	52.3305	8179.0886	12.4863	18.1059	451.7365	16368.9395	26.1702	5.4479	11.622
L25	36.1113	57.8301	9012.9779	12.4686	18.1059	497.7927	18037.8153	28.9205	5.3599	10.332
	36.1494	57.8918	9041.8851	12.4819	18.1249	498.8643	18095.6676	28.9514	5.3665	10.345
L26	36.1513	56.5169	8833.4229	12.4863	18.1249	487.3629	17678.4689	28.2638	5.3885	10.644
	36.9131	57.7224	9410.7799	12.7526	18.5060	508.5249	18833.9427	28.8667	5.5205	10.905
L27	36.9131	57.7224	9410.7799	12.7526	18.5060	508.5249	18833.942	28.8667	5.5205	10.905

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
	37.6749	58.9278	10012.7617	13.0190	18.8871	530.1367	20038.6985	29.4695	5.6526	11.166
L28	37.6768	57.4924	9775.5222	13.0234	18.8871	517.5758	19563.9072	28.7516	5.6746	11.493
	38.4385	58.6680	10387.5715	13.2897	19.2682	539.1036	20788.8112	29.3396	5.8066	11.76
L29	38.4385	58.6680	10387.5715	13.2897	19.2682	539.1036	20788.8112	29.3396	5.8066	11.76
	39.2003	59.8437	11024.6491	13.5560	19.6493	561.0701	22063.8048	29.9275	5.9386	12.028
L30	39.2013	59.0959	10890.4423	13.5583	19.6493	554.2400	21795.2145	29.5535	5.9496	12.204
	39.9630	60.2566	11544.8744	13.8246	20.0304	576.3670	23104.9399	30.1340	6.0817	12.475
L31	39.9630	60.2566	11544.8744	13.8246	20.0304	576.3670	23104.9399	30.1340	6.0817	12.475
	40.1154	60.4888	11678.8297	13.8778	20.1066	580.8444	23373.0268	30.2501	6.1081	12.529

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 133.00-128.00				1	1	1			
L2 128.00-123.00				1	1	1			
L3 123.00-118.00				1	1	1			
L4 118.00-113.00				1	1	1			
L5 113.00-108.00				1	1	1			
L6 108.00-103.00				1	1	1			
L7 103.00-98.00				1	1	1			
L8 98.00-93.00				1	1	1			
L9 93.00-88.00				1	1	1			
L10 88.00-82.25				1	1	1			
L11 82.25-80.75				1	1	1			
L12 80.75-75.75				1	1	1			
L13 75.75-70.75				1	1	1			
L14 70.75-65.75				1	1	1			
L15 65.75-60.75				1	1	1			
L16 60.75-57.75				1	1	1			
L17 57.75-57.50				1	1	0.94611			
L18 57.50-52.50				1	1	0.949166			
L19 52.50-47.50				1	1	0.952774			
L20 47.50-40.75				1	1	0.948243			
L21 40.75-40.00				1	1	0.949567			
L22 40.00-35.00				1	1	0.966223			

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
ft	ft^2	in					in	in	in
L23 35.00-30.00				1	1	0.958285			
L24 30.00-26.25				1	1	0.952553			
L25 26.25-26.00				1	1	0.942598			
L26 26.00-21.00				1	1	0.956967			
L27 21.00-16.00				1	1	0.948756			
L28 16.00-11.00				1	1	0.964371			
L29 11.00-6.00				1	1	0.956616			
L30 6.00-1.00				1	1	0.961174			
L31 1.00-0.00				1	1	0.9597			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
******										
Climbing Pegs	B	No	Surface Ar (CaAa)	133.00 - 0.00	1	1	-0.500 -0.400	0.7050		1.80
AVA7-50(1-5/8)	A	No	Surface Ar (CaAa)	75.00 - 6.00	2	2	0.350 0.470	2.0100		0.70
******										
LDF4-50A(1/2)	B	No	Surface Ar (CaAa)	50.00 - 6.00	1	1	0.470 0.470	0.6250		0.15
******										
******										
******										

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_A ft^2/ft	Weight plf
******									
WR-VG86ST-BRD(3/4)	B	No	No	Inside Pole	132.00 - 6.00	4	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.58 0.58 0.58
FB-L98B-034-XXX(3/8)	B	No	No	Inside Pole	132.00 - 6.00	2	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.06 0.06 0.06
LDF6-50A(1-1/4)	B	No	No	Inside Pole	132.00 - 6.00	6	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.60 0.60 0.60
Conduit (2")	B	No	No	Inside Pole	132.00 - 6.00	2	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	2.80 2.80 2.80
******									
***									
HB158-21U6S24-xxM_TMO(1-5/8)	B	No	No	Inside Pole	120.00 - 6.00	3	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	2.50 2.50 2.50
******									
CU12PSM9P6XXX (1-1/2)	A	No	No	Inside Pole	110.00 - 6.00	1	No Ice 1/2" Ice	0.00 0.00	2.35 2.35

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight plf
							1" Ice	0.00	2.35
******									
******									
LDF7-50A(1-5/8)	A	No	No	Inside Pole	93.00 - 6.00	6	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
***									
HB158-21U6S12-XXXM-01(1-5/8)	A	No	No	Inside Pole	93.00 - 6.00	2	No Ice	0.00	1.90
							1/2" Ice	0.00	1.90
							1" Ice	0.00	1.90
******									
AVA7-50(1-5/8)	A	No	No	Inside Pole	75.00 - 6.00	4	No Ice	0.00	0.70
							1/2" Ice	0.00	0.70
							1" Ice	0.00	0.70
******									

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	133.00-128.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.352	0.000	0.06
		C	0.000	0.000	0.000	0.000	0.00
L2	128.00-123.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.352	0.000	0.07
		C	0.000	0.000	0.000	0.000	0.00
L3	123.00-118.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.352	0.000	0.08
		C	0.000	0.000	0.000	0.000	0.00
L4	118.00-113.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.352	0.000	0.10
		C	0.000	0.000	0.000	0.000	0.00
L5	113.00-108.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.352	0.000	0.10
		C	0.000	0.000	0.000	0.000	0.00
L6	108.00-103.00	A	0.000	0.000	0.000	0.000	0.01
		B	0.000	0.000	0.352	0.000	0.10
		C	0.000	0.000	0.000	0.000	0.00
L7	103.00-98.00	A	0.000	0.000	0.000	0.000	0.01
		B	0.000	0.000	0.352	0.000	0.10
		C	0.000	0.000	0.000	0.000	0.00
L8	98.00-93.00	A	0.000	0.000	0.000	0.000	0.01
		B	0.000	0.000	0.352	0.000	0.10
		C	0.000	0.000	0.000	0.000	0.00
L9	93.00-88.00	A	0.000	0.000	0.000	0.000	0.06
		B	0.000	0.000	0.352	0.000	0.10
		C	0.000	0.000	0.000	0.000	0.00
L10	88.00-82.25	A	0.000	0.000	0.000	0.000	0.06
		B	0.000	0.000	0.405	0.000	0.12
		C	0.000	0.000	0.000	0.000	0.00
L11	82.25-80.75	A	0.000	0.000	0.000	0.000	0.02
		B	0.000	0.000	0.106	0.000	0.03
		C	0.000	0.000	0.000	0.000	0.00
L12	80.75-75.75	A	0.000	0.000	0.000	0.000	0.06
		B	0.000	0.000	0.352	0.000	0.10
		C	0.000	0.000	0.000	0.000	0.00
L13	75.75-70.75	A	0.000	0.000	1.708	0.000	0.07
		B	0.000	0.000	0.352	0.000	0.10
		C	0.000	0.000	0.000	0.000	0.00
L14	70.75-65.75	A	0.000	0.000	2.010	0.000	0.08
		B	0.000	0.000	0.352	0.000	0.10
		C	0.000	0.000	0.000	0.000	0.00
L15	65.75-60.75	A	0.000	0.000	2.010	0.000	0.08
		B	0.000	0.000	0.352	0.000	0.10

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		C	0.000	0.000	0.000	0.000	0.00
L16	60.75-57.75	A	0.000	0.000	1.206	0.000	0.05
		B	0.000	0.000	0.211	0.000	0.06
		C	0.000	0.000	0.000	0.000	0.00
L17	57.75-57.50	A	0.000	0.000	0.101	0.000	0.00
		B	0.000	0.000	0.018	0.000	0.01
		C	0.000	0.000	0.000	0.000	0.00
L18	57.50-52.50	A	0.000	0.000	2.010	0.000	0.08
		B	0.000	0.000	0.352	0.000	0.10
		C	0.000	0.000	0.000	0.000	0.00
L19	52.50-47.50	A	0.000	0.000	2.010	0.000	0.08
		B	0.000	0.000	0.509	0.000	0.11
		C	0.000	0.000	0.000	0.000	0.00
L20	47.50-40.75	A	0.000	0.000	2.713	0.000	0.10
		B	0.000	0.000	0.898	0.000	0.14
		C	0.000	0.000	0.000	0.000	0.00
L21	40.75-40.00	A	0.000	0.000	0.301	0.000	0.01
		B	0.000	0.000	0.100	0.000	0.02
		C	0.000	0.000	0.000	0.000	0.00
L22	40.00-35.00	A	0.000	0.000	2.010	0.000	0.08
		B	0.000	0.000	0.665	0.000	0.11
		C	0.000	0.000	0.000	0.000	0.00
L23	35.00-30.00	A	0.000	0.000	2.010	0.000	0.08
		B	0.000	0.000	0.665	0.000	0.11
		C	0.000	0.000	0.000	0.000	0.00
L24	30.00-26.25	A	0.000	0.000	1.508	0.000	0.06
		B	0.000	0.000	0.499	0.000	0.08
		C	0.000	0.000	0.000	0.000	0.00
L25	26.25-26.00	A	0.000	0.000	0.101	0.000	0.00
		B	0.000	0.000	0.033	0.000	0.01
		C	0.000	0.000	0.000	0.000	0.00
L26	26.00-21.00	A	0.000	0.000	2.010	0.000	0.08
		B	0.000	0.000	0.665	0.000	0.11
		C	0.000	0.000	0.000	0.000	0.00
L27	21.00-16.00	A	0.000	0.000	2.010	0.000	0.08
		B	0.000	0.000	0.665	0.000	0.11
		C	0.000	0.000	0.000	0.000	0.00
L28	16.00-11.00	A	0.000	0.000	2.010	0.000	0.08
		B	0.000	0.000	0.665	0.000	0.11
		C	0.000	0.000	0.000	0.000	0.00
L29	11.00-6.00	A	0.000	0.000	2.010	0.000	0.08
		B	0.000	0.000	0.665	0.000	0.11
		C	0.000	0.000	0.000	0.000	0.00
L30	6.00-1.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.352	0.000	0.01
		C	0.000	0.000	0.000	0.000	0.00
L31	1.00-0.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.070	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.00

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_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	133.00-128.00	A	0.975	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	1.328	0.000	0.07
		C		0.000	0.000	0.000	0.000	0.00
L2	128.00-123.00	A	0.971	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	1.324	0.000	0.08
		C		0.000	0.000	0.000	0.000	0.00
L3	123.00-118.00	A	0.968	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	1.320	0.000	0.09
		C		0.000	0.000	0.000	0.000	0.00
L4	118.00-113.00	A	0.963	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	1.316	0.000	0.11

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		C		0.000	0.000	0.000	0.000	0.00
L5	113.00-108.00	A	0.959	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	1.312	0.000	0.11
		C		0.000	0.000	0.000	0.000	0.00
L6	108.00-103.00	A	0.955	0.000	0.000	0.000	0.000	0.01
		B		0.000	0.000	1.307	0.000	0.11
		C		0.000	0.000	0.000	0.000	0.00
L7	103.00-98.00	A	0.950	0.000	0.000	0.000	0.000	0.01
		B		0.000	0.000	1.303	0.000	0.11
		C		0.000	0.000	0.000	0.000	0.00
L8	98.00-93.00	A	0.945	0.000	0.000	0.000	0.000	0.01
		B		0.000	0.000	1.298	0.000	0.11
		C		0.000	0.000	0.000	0.000	0.00
L9	93.00-88.00	A	0.940	0.000	0.000	0.000	0.000	0.06
		B		0.000	0.000	1.293	0.000	0.11
		C		0.000	0.000	0.000	0.000	0.00
L10	88.00-82.25	A	0.934	0.000	0.000	0.000	0.000	0.06
		B		0.000	0.000	1.480	0.000	0.13
		C		0.000	0.000	0.000	0.000	0.00
L11	82.25-80.75	A	0.930	0.000	0.000	0.000	0.000	0.02
		B		0.000	0.000	0.386	0.000	0.03
		C		0.000	0.000	0.000	0.000	0.00
L12	80.75-75.75	A	0.927	0.000	0.000	0.000	0.000	0.06
		B		0.000	0.000	1.279	0.000	0.11
		C		0.000	0.000	0.000	0.000	0.00
L13	75.75-70.75	A	0.921	0.000	0.000	3.114	0.000	0.09
		B		0.000	0.000	1.273	0.000	0.11
		C		0.000	0.000	0.000	0.000	0.00
L14	70.75-65.75	A	0.914	0.000	0.000	3.655	0.000	0.10
		B		0.000	0.000	1.267	0.000	0.11
		C		0.000	0.000	0.000	0.000	0.00
L15	65.75-60.75	A	0.907	0.000	0.000	3.646	0.000	0.10
		B		0.000	0.000	1.260	0.000	0.11
		C		0.000	0.000	0.000	0.000	0.00
L16	60.75-57.75	A	0.901	0.000	0.000	2.183	0.000	0.06
		B		0.000	0.000	0.752	0.000	0.07
		C		0.000	0.000	0.000	0.000	0.00
L17	57.75-57.50	A	0.899	0.000	0.000	0.182	0.000	0.01
		B		0.000	0.000	0.063	0.000	0.01
		C		0.000	0.000	0.000	0.000	0.00
L18	57.50-52.50	A	0.895	0.000	0.000	3.631	0.000	0.10
		B		0.000	0.000	1.247	0.000	0.11
		C		0.000	0.000	0.000	0.000	0.00
L19	52.50-47.50	A	0.886	0.000	0.000	3.620	0.000	0.10
		B		0.000	0.000	1.838	0.000	0.12
		C		0.000	0.000	0.000	0.000	0.00
L20	47.50-40.75	A	0.875	0.000	0.000	4.868	0.000	0.14
		B		0.000	0.000	3.260	0.000	0.16
		C		0.000	0.000	0.000	0.000	0.00
L21	40.75-40.00	A	0.867	0.000	0.000	0.541	0.000	0.02
		B		0.000	0.000	0.362	0.000	0.02
		C		0.000	0.000	0.000	0.000	0.00
L22	40.00-35.00	A	0.861	0.000	0.000	3.589	0.000	0.10
		B		0.000	0.000	2.387	0.000	0.12
		C		0.000	0.000	0.000	0.000	0.00
L23	35.00-30.00	A	0.849	0.000	0.000	3.573	0.000	0.10
		B		0.000	0.000	2.362	0.000	0.12
		C		0.000	0.000	0.000	0.000	0.00
L24	30.00-26.25	A	0.837	0.000	0.000	2.669	0.000	0.07
		B		0.000	0.000	1.754	0.000	0.09
		C		0.000	0.000	0.000	0.000	0.00
L25	26.25-26.00	A	0.830	0.000	0.000	0.178	0.000	0.00
		B		0.000	0.000	0.116	0.000	0.01
		C		0.000	0.000	0.000	0.000	0.00
L26	26.00-21.00	A	0.822	0.000	0.000	3.539	0.000	0.10
		B		0.000	0.000	2.308	0.000	0.12
		C		0.000	0.000	0.000	0.000	0.00
L27	21.00-16.00	A	0.802	0.000	0.000	3.515	0.000	0.10
		B		0.000	0.000	2.269	0.000	0.12

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		C		0.000	0.000	0.000	0.000	0.00
L28	16.00-11.00	A	0.777	0.000	0.000	3.484	0.000	0.10
		B		0.000	0.000	2.220	0.000	0.12
		C		0.000	0.000	0.000	0.000	0.00
L29	11.00-6.00	A	0.742	0.000	0.000	3.440	0.000	0.10
		B		0.000	0.000	2.149	0.000	0.12
		C		0.000	0.000	0.000	0.000	0.00
L30	6.00-1.00	A	0.679	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	1.032	0.000	0.01
		C		0.000	0.000	0.000	0.000	0.00
L31	1.00-0.00	A	0.559	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.182	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.00

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
L1	133.00-128.00	0.0703	-0.6691	0.1097	-1.0436
L2	128.00-123.00	0.0703	-0.6691	0.1095	-1.0415
L3	123.00-118.00	0.0586	-0.5577	0.1168	-1.1112
L4	118.00-113.00	0.0586	-0.5580	0.1170	-1.1134
L5	113.00-108.00	0.0587	-0.5583	0.1172	-1.1150
L6	108.00-103.00	0.0587	-0.5585	0.1173	-1.1163
L7	103.00-98.00	0.0587	-0.5588	0.1174	-1.1172
L8	98.00-93.00	0.0588	-0.5590	0.1175	-1.1176
L9	93.00-88.00	0.0588	-0.5593	0.1175	-1.1176
L10	88.00-82.25	0.0588	-0.5595	0.1174	-1.1172
L11	82.25-80.75	0.0588	-0.5597	0.1176	-1.1185
L12	80.75-75.75	0.0588	-0.5598	0.1171	-1.1146
L13	75.75-70.75	-0.4022	-2.8427	-0.3215	-3.0089
L14	70.75-65.75	-0.4699	-3.1811	-0.3803	-3.2704
L15	65.75-60.75	-0.4715	-3.1926	-0.3828	-3.2885
L16	60.75-57.75	-0.4727	-3.2014	-0.3847	-3.3019
L17	57.75-57.50	-0.4735	-3.2076	-0.3857	-3.3093
L18	57.50-52.50	-0.4743	-3.2130	-0.3869	-3.3172
L19	52.50-47.50	-0.2837	-3.0908	-0.0244	-3.0756
L20	47.50-40.75	-0.0985	-2.9747	0.3181	-2.8504
L21	40.75-40.00	-0.0985	-2.9759	0.3185	-2.8531
L22	40.00-35.00	-0.0985	-2.9815	0.3139	-2.8546
L23	35.00-30.00	-0.0985	-2.9911	0.3112	-2.8654
L24	30.00-26.25	-0.0985	-2.9993	0.3080	-2.8733
L25	26.25-26.00	-0.0985	-3.0035	0.3063	-2.8767
L26	26.00-21.00	-0.0985	-3.0081	0.3036	-2.8798
L27	21.00-16.00	-0.0984	-3.0168	0.2970	-2.8834
L28	16.00-11.00	-0.0984	-3.0252	0.2876	-2.8822
L29	11.00-6.00	-0.0984	-3.0334	0.2730	-2.8727
L30	6.00-1.00	0.0591	-0.5624	0.0997	-0.9485
L31	1.00-0.00	0.0591	-0.5625	0.0891	-0.8481

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

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L1	2	Climbing Pegs	128.00 - 133.00	1.0000	1.0000
L2	2	Climbing Pegs	123.00 - 128.00	1.0000	1.0000
L3	2	Climbing Pegs	118.00 - 123.00	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L4	2	Climbing Pegs	113.00 - 118.00	1.0000	1.0000
L5	2	Climbing Pegs	108.00 - 113.00	1.0000	1.0000
L6	2	Climbing Pegs	103.00 - 108.00	1.0000	1.0000
L7	2	Climbing Pegs	98.00 - 103.00	1.0000	1.0000
L8	2	Climbing Pegs	93.00 - 98.00	1.0000	1.0000
L9	2	Climbing Pegs	88.00 - 93.00	1.0000	1.0000
L10	2	Climbing Pegs	82.25 - 88.00	1.0000	1.0000
L11	2	Climbing Pegs	80.75 - 82.25	1.0000	1.0000
L12	2	Climbing Pegs	75.75 - 80.75	1.0000	1.0000
L13	2	Climbing Pegs	70.75 - 75.75	1.0000	1.0000
L13	25	AVA7-50(1-5/8)	70.75 - 75.00	1.0000	1.0000
L14	2	Climbing Pegs	65.75 - 70.75	1.0000	1.0000
L14	25	AVA7-50(1-5/8)	65.75 - 70.75	1.0000	1.0000
L15	2	Climbing Pegs	60.75 - 65.75	1.0000	1.0000
L15	25	AVA7-50(1-5/8)	60.75 - 65.75	1.0000	1.0000
L16	2	Climbing Pegs	57.75 - 60.75	1.0000	1.0000
L16	25	AVA7-50(1-5/8)	57.75 - 60.75	1.0000	1.0000
L17	2	Climbing Pegs	57.50 - 57.75	1.0000	1.0000
L17	25	AVA7-50(1-5/8)	57.50 - 57.75	1.0000	1.0000
L18	2	Climbing Pegs	52.50 - 57.50	1.0000	1.0000
L18	25	AVA7-50(1-5/8)	52.50 - 57.50	1.0000	1.0000
L19	2	Climbing Pegs	47.50 - 52.50	1.0000	1.0000
L19	25	AVA7-50(1-5/8)	47.50 - 52.50	1.0000	1.0000
L19	27	LDF4-50A(1/2)	47.50 - 50.00	1.0000	1.0000
L20	2	Climbing Pegs	40.75 - 47.50	1.0000	1.0000
L20	25	AVA7-50(1-5/8)	40.75 - 47.50	1.0000	1.0000
L20	27	LDF4-50A(1/2)	40.75 - 47.50	1.0000	1.0000
L21	2	Climbing Pegs	40.00 - 40.75	1.0000	1.0000
L21	25	AVA7-50(1-5/8)	40.00 - 40.75	1.0000	1.0000
L21	27	LDF4-50A(1/2)	40.00 - 40.75	1.0000	1.0000
L22	2	Climbing Pegs	35.00 - 40.00	1.0000	1.0000
L22	25	AVA7-50(1-5/8)	35.00 - 40.00	1.0000	1.0000
L22	27	LDF4-50A(1/2)	35.00 - 40.00	1.0000	1.0000
L23	2	Climbing Pegs	30.00 - 35.00	1.0000	1.0000
L23	25	AVA7-50(1-5/8)	30.00 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
			35.00		
L23	27	LDF4-50A(1/2)	30.00 - 35.00	1.0000	1.0000
L24	2	Climbing Pegs	26.25 - 30.00	1.0000	1.0000
L24	25	AVA7-50(1-5/8)	26.25 - 30.00	1.0000	1.0000
L24	27	LDF4-50A(1/2)	26.25 - 30.00	1.0000	1.0000
L25	2	Climbing Pegs	26.00 - 26.25	1.0000	1.0000
L25	25	AVA7-50(1-5/8)	26.00 - 26.25	1.0000	1.0000
L25	27	LDF4-50A(1/2)	26.00 - 26.25	1.0000	1.0000
L26	2	Climbing Pegs	21.00 - 26.00	1.0000	1.0000
L26	25	AVA7-50(1-5/8)	21.00 - 26.00	1.0000	1.0000
L26	27	LDF4-50A(1/2)	21.00 - 26.00	1.0000	1.0000
L27	2	Climbing Pegs	16.00 - 21.00	1.0000	1.0000
L27	25	AVA7-50(1-5/8)	16.00 - 21.00	1.0000	1.0000
L27	27	LDF4-50A(1/2)	16.00 - 21.00	1.0000	1.0000
L28	2	Climbing Pegs	11.00 - 16.00	1.0000	1.0000
L28	25	AVA7-50(1-5/8)	11.00 - 16.00	1.0000	1.0000
L28	27	LDF4-50A(1/2)	11.00 - 16.00	1.0000	1.0000
L29	2	Climbing Pegs	6.00 - 11.00	1.0000	1.0000
L29	25	AVA7-50(1-5/8)	6.00 - 11.00	1.0000	1.0000
L29	27	LDF4-50A(1/2)	6.00 - 11.00	1.0000	1.0000
L30	2	Climbing Pegs	1.00 - 6.00	1.0000	1.0000
L31	2	Climbing Pegs	0.00 - 1.00	1.0000	1.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
******									
Lighting Rod 5/8" x 5'	A	From Leg	0.00	0.0000	133.00	No Ice	0.31	0.31	0.03
			0.00			1/2" Ice	0.83	0.83	0.03
			2.50			1" Ice	1.32	1.32	0.04
******									
TPA65R-BU8D_CCIV2 w/ Mount Pipe	A	From Leg	1.00	0.0000	132.00	No Ice	15.89	7.89	0.12
			0.00			1/2" Ice	16.81	8.74	0.23
			0.00			1" Ice	17.76	9.60	0.36
TPA65R-BU8D_CCIV2 w/ Mount Pipe	B	From Leg	1.00	0.0000	132.00	No Ice	15.89	7.89	0.12
			0.00			1/2" Ice	16.81	8.74	0.23
			0.00			1" Ice	17.76	9.60	0.36
TPA65R-BU8D_CCIV2 w/ Mount Pipe	C	From Leg	1.00	0.0000	132.00	No Ice	15.89	7.89	0.12
			0.00			1/2" Ice	16.81	8.74	0.23
			0.00			1" Ice	17.76	9.60	0.36
DC6-48-60-18-8F	A	From Leg	1.00	0.0000	132.00	No Ice	0.92	0.92	0.02
			0.00			1/2" Ice	1.46	1.46	0.04
			0.00			1" Ice	1.64	1.64	0.06
RRUS 4449 B5/B12	A	From Leg	1.00	0.0000	132.00	No Ice	1.97	1.41	0.07

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.00			1/2" Ice	2.14	1.56	0.09
			0.00			1" Ice	2.33	1.73	0.11
RRUS 4449 B5/B12	B	From Leg	1.00	0.0000	132.00	No Ice	1.97	1.41	0.07
			0.00			1/2" Ice	2.14	1.56	0.09
			0.00			1" Ice	2.33	1.73	0.11
RRUS 4449 B5/B12	C	From Leg	1.00	0.0000	132.00	No Ice	1.97	1.41	0.07
			0.00			1/2" Ice	2.14	1.56	0.09
			0.00			1" Ice	2.33	1.73	0.11
RRUS 4415 B25	A	From Leg	1.00	0.0000	132.00	No Ice	1.64	0.68	0.04
			0.00			1/2" Ice	1.80	0.79	0.06
			0.00			1" Ice	1.97	0.91	0.07
RRUS 4415 B25	B	From Leg	1.00	0.0000	132.00	No Ice	1.64	0.68	0.04
			0.00			1/2" Ice	1.80	0.79	0.06
			0.00			1" Ice	1.97	0.91	0.07
RRUS 4415 B25	C	From Leg	1.00	0.0000	132.00	No Ice	1.64	0.68	0.04
			0.00			1/2" Ice	1.80	0.79	0.06
			0.00			1" Ice	1.97	0.91	0.07
DBC0111F2V62-1	A	From Leg	1.00	0.0000	132.00	No Ice	1.10	1.06	0.05
			0.00			1/2" Ice	1.23	1.19	0.06
			0.00			1" Ice	1.37	1.33	0.08
DBC0111F2V62-1	B	From Leg	1.00	0.0000	132.00	No Ice	1.10	1.06	0.05
			0.00			1/2" Ice	1.23	1.19	0.06
			0.00			1" Ice	1.37	1.33	0.08
DBC0111F2V62-1	C	From Leg	1.00	0.0000	132.00	No Ice	1.10	1.06	0.05
			0.00			1/2" Ice	1.23	1.19	0.06
			0.00			1" Ice	1.37	1.33	0.08
DC6-48-60-18-8C-EV	B	From Leg	1.00	0.0000	132.00	No Ice	2.74	2.74	0.03
			0.00			1/2" Ice	2.96	2.96	0.05
			0.00			1" Ice	3.20	3.20	0.08
Side Arm Mount [SO 102-3]	C	None		0.0000	132.00	No Ice	3.60	3.60	0.07
						1/2" Ice	4.18	4.18	0.11
						1" Ice	4.75	4.75	0.14
****** ***									
AIR 6419 B41_TMO w/ Mount Pipe	A	From Leg	4.00	0.0000	120.00	No Ice	6.58	3.50	0.11
			0.00			1/2" Ice	7.06	3.90	0.16
			1.00			1" Ice	7.57	4.32	0.22
AIR 6419 B41_TMO w/ Mount Pipe	B	From Leg	4.00	0.0000	120.00	No Ice	6.58	3.50	0.11
			0.00			1/2" Ice	7.06	3.90	0.16
			1.00			1" Ice	7.57	4.32	0.22
AIR 6419 B41_TMO w/ Mount Pipe	C	From Leg	4.00	0.0000	120.00	No Ice	6.58	3.50	0.11
			0.00			1/2" Ice	7.06	3.90	0.16
			1.00			1" Ice	7.57	4.32	0.22
VV-65B-R1_TMO w/ Mount Pipe	A	From Leg	4.00	0.0000	120.00	No Ice	5.82	3.48	0.07
			0.00			1/2" Ice	6.37	4.00	0.12
			1.00			1" Ice	6.94	4.54	0.19
VV-65B-R1_TMO w/ Mount Pipe	B	From Leg	4.00	0.0000	120.00	No Ice	5.82	3.48	0.07
			0.00			1/2" Ice	6.37	4.00	0.12
			1.00			1" Ice	6.94	4.54	0.19
VV-65B-R1_TMO w/ Mount Pipe	C	From Leg	4.00	0.0000	120.00	No Ice	5.82	3.48	0.07
			0.00			1/2" Ice	6.37	4.00	0.12
			1.00			1" Ice	6.94	4.54	0.19
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	A	From Leg	4.00	0.0000	120.00	No Ice	14.69	6.87	0.18
			0.00			1/2" Ice	15.46	7.55	0.31
			1.00			1" Ice	16.23	8.25	0.45
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	B	From Leg	4.00	0.0000	120.00	No Ice	14.69	6.87	0.18
			0.00			1/2" Ice	15.46	7.55	0.31
			1.00			1" Ice	16.23	8.25	0.45
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	C	From Leg	4.00	0.0000	120.00	No Ice	14.69	6.87	0.18
			0.00			1/2" Ice	15.46	7.55	0.31
			1.00			1" Ice	16.23	8.25	0.45
RADIO 4460 B2/B25 B66_TMO	A	From Leg	4.00	0.0000	120.00	No Ice	2.14	1.69	0.11
			0.00			1/2" Ice	2.32	1.85	0.13
			1.00			1" Ice	2.51	2.02	0.16
RADIO 4460 B2/B25	B	From Leg	4.00	0.0000	120.00	No Ice	2.14	1.69	0.11

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
B66_TMO			0.00			1/2" Ice	2.32	1.85	0.13
			1.00			1" Ice	2.51	2.02	0.16
RADIO 4460 B2/B25	C	From Leg	4.00	0.0000	120.00	No Ice	2.14	1.69	0.11
B66_TMO			0.00			1/2" Ice	2.32	1.85	0.13
			1.00			1" Ice	2.51	2.02	0.16
Radio 4480_TMOV2	A	From Leg	4.00	0.0000	120.00	No Ice	2.88	1.40	0.08
			0.00			1/2" Ice	3.09	1.56	0.10
			1.00			1" Ice	3.31	1.73	0.13
Radio 4480_TMOV2	B	From Leg	4.00	0.0000	120.00	No Ice	2.88	1.40	0.08
			0.00			1/2" Ice	3.09	1.56	0.10
			1.00			1" Ice	3.31	1.73	0.13
Radio 4480_TMOV2	C	From Leg	4.00	0.0000	120.00	No Ice	2.88	1.40	0.08
			0.00			1/2" Ice	3.09	1.56	0.10
			1.00			1" Ice	3.31	1.73	0.13
Platform Mount [LP 1201-1_HR-1]	C	None		0.0000	120.00	No Ice	26.39	26.39	2.36
						1/2" Ice	31.40	31.40	3.06
						1" Ice	36.20	36.20	3.86
******									
******									
MX08FRO665-21 w/ Mount Pipe	A	From Leg	4.00	0.0000	110.00	No Ice	8.01	4.23	0.11
			0.00			1/2" Ice	8.52	4.69	0.19
			1.00			1" Ice	9.04	5.16	0.29
MX08FRO665-21 w/ Mount Pipe	B	From Leg	4.00	0.0000	110.00	No Ice	8.01	4.23	0.11
			0.00			1/2" Ice	8.52	4.69	0.19
			1.00			1" Ice	9.04	5.16	0.29
MX08FRO665-21 w/ Mount Pipe	C	From Leg	4.00	0.0000	110.00	No Ice	8.01	4.23	0.11
			0.00			1/2" Ice	8.52	4.69	0.19
			1.00			1" Ice	9.04	5.16	0.29
(3) TA08025-B605	A	From Leg	4.00	0.0000	110.00	No Ice	1.96	1.13	0.08
			0.00			1/2" Ice	2.14	1.27	0.09
			1.00			1" Ice	2.32	1.41	0.11
TA08025-B604	A	From Leg	4.00	0.0000	110.00	No Ice	1.96	0.98	0.06
			0.00			1/2" Ice	2.14	1.11	0.08
			1.00			1" Ice	2.32	1.25	0.10
TA08025-B604	B	From Leg	4.00	0.0000	110.00	No Ice	1.96	0.98	0.06
			0.00			1/2" Ice	2.14	1.11	0.08
			1.00			1" Ice	2.32	1.25	0.10
TA08025-B604	C	From Leg	4.00	0.0000	110.00	No Ice	1.96	0.98	0.06
			0.00			1/2" Ice	2.14	1.11	0.08
			1.00			1" Ice	2.32	1.25	0.10
RDIDC-9181-PF-48	A	From Leg	2.00	0.0000	110.00	No Ice	2.01	1.17	0.02
			0.00			1/2" Ice	2.19	1.31	0.04
			1.00			1" Ice	2.37	1.46	0.06
6' x 2" Mount Pipe	A	From Leg	2.00	0.0000	110.00	No Ice	1.43	1.43	0.02
			0.00			1/2" Ice	1.92	1.92	0.03
			0.00			1" Ice	2.29	2.29	0.05
(2) 8' x 2" Mount Pipe	A	From Leg	2.00	0.0000	110.00	No Ice	1.90	1.90	0.03
			0.00			1/2" Ice	2.73	2.73	0.04
			0.00			1" Ice	3.40	3.40	0.06
(2) 8' x 2" Mount Pipe	B	From Leg	2.00	0.0000	110.00	No Ice	1.90	1.90	0.03
			0.00			1/2" Ice	2.73	2.73	0.04
			0.00			1" Ice	3.40	3.40	0.06
(2) 8' x 2" Mount Pipe	C	From Leg	2.00	0.0000	110.00	No Ice	1.90	1.90	0.03
			0.00			1/2" Ice	2.73	2.73	0.04
			0.00			1" Ice	3.40	3.40	0.06
Commscope MC-PK8-DSH	C	None		0.0000	110.00	No Ice	34.24	34.24	1.75
						1/2" Ice	62.95	62.95	2.10
						1" Ice	91.66	91.66	2.45
******									
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BXA-70063-4CF-EDIN-X w/ Mount Pipe	A	From Leg	4.00	0.0000	93.00	No Ice	4.84	3.54	0.04
			0.00			1/2" Ice	5.35	4.03	0.08
			1.00			1" Ice	5.88	4.53	0.12
BXA-70063-4CF-EDIN-X	B	From Leg	4.00	0.0000	93.00	No Ice	4.84	3.54	0.04

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
w/ Mount Pipe			0.00			1/2" Ice	5.35	4.03	0.08
			1.00			1" Ice	5.88	4.53	0.12
BXA-70063-4CF-EDIN-X w/ Mount Pipe	C	From Leg	4.00	0.0000	93.00	No Ice	4.84	3.54	0.04
			0.00			1/2" Ice	5.35	4.03	0.08
			1.00			1" Ice	5.88	4.53	0.12
NHH-65B-R2B	A	From Leg	4.00	0.0000	93.00	No Ice	4.16	2.49	0.04
			0.00			1/2" Ice	4.56	2.88	0.09
			1.00			1" Ice	4.98	3.27	0.15
NHH-65B-R2B	B	From Leg	4.00	0.0000	93.00	No Ice	4.16	2.49	0.04
			0.00			1/2" Ice	4.56	2.88	0.09
			1.00			1" Ice	4.98	3.27	0.15
NHH-65B-R2B	C	From Leg	4.00	0.0000	93.00	No Ice	4.16	2.49	0.04
			0.00			1/2" Ice	4.56	2.88	0.09
			1.00			1" Ice	4.98	3.27	0.15
NHHSS-65B-R2BT4	A	From Leg	4.00	0.0000	93.00	No Ice	3.94	2.36	0.06
			0.00			1/2" Ice	4.33	2.73	0.11
			1.00			1" Ice	4.73	3.11	0.17
NHHSS-65B-R2BT4	B	From Leg	4.00	0.0000	93.00	No Ice	3.94	2.36	0.06
			0.00			1/2" Ice	4.33	2.73	0.11
			1.00			1" Ice	4.73	3.11	0.17
NHHSS-65B-R2BT4	C	From Leg	4.00	0.0000	93.00	No Ice	3.94	2.36	0.06
			0.00			1/2" Ice	4.33	2.73	0.11
			1.00			1" Ice	4.73	3.11	0.17
MT6407-77A w/ Mount Pipe	A	From Leg	4.00	0.0000	93.00	No Ice	5.94	3.10	0.10
			0.00			1/2" Ice	6.47	3.55	0.13
			1.00			1" Ice	7.02	4.02	0.18
MT6407-77A w/ Mount Pipe	B	From Leg	4.00	0.0000	93.00	No Ice	5.94	3.10	0.10
			0.00			1/2" Ice	6.47	3.55	0.13
			1.00			1" Ice	7.02	4.02	0.18
MT6407-77A w/ Mount Pipe	C	From Leg	4.00	0.0000	93.00	No Ice	5.94	3.10	0.10
			0.00			1/2" Ice	6.47	3.55	0.13
			1.00			1" Ice	7.02	4.02	0.18
RF4440D-13A	A	From Leg	4.00	0.0000	93.00	No Ice	1.87	1.13	0.07
			0.00			1/2" Ice	2.03	1.27	0.09
			1.00			1" Ice	2.21	1.41	0.11
RF4440D-13A	B	From Leg	4.00	0.0000	93.00	No Ice	1.87	1.13	0.07
			0.00			1/2" Ice	2.03	1.27	0.09
			1.00			1" Ice	2.21	1.41	0.11
RF4440D-13A	C	From Leg	4.00	0.0000	93.00	No Ice	1.87	1.13	0.07
			0.00			1/2" Ice	2.03	1.27	0.09
			1.00			1" Ice	2.21	1.41	0.11
CBRS RT4401-48A	A	From Leg	4.00	0.0000	93.00	No Ice	0.99	0.50	0.02
			0.00			1/2" Ice	1.12	0.60	0.03
			1.00			1" Ice	1.26	0.70	0.04
CBRS RT4401-48A	B	From Leg	4.00	0.0000	93.00	No Ice	0.99	0.50	0.02
			0.00			1/2" Ice	1.12	0.60	0.03
			1.00			1" Ice	1.26	0.70	0.04
CBRS RT4401-48A	C	From Leg	4.00	0.0000	93.00	No Ice	0.99	0.50	0.02
			0.00			1/2" Ice	1.12	0.60	0.03
			1.00			1" Ice	1.26	0.70	0.04
RF4439D-25A	A	From Leg	4.00	0.0000	93.00	No Ice	1.87	1.25	0.07
			0.00			1/2" Ice	2.03	1.39	0.09
			1.00			1" Ice	2.21	1.54	0.11
RF4439D-25A	B	From Leg	4.00	0.0000	93.00	No Ice	1.87	1.25	0.07
			0.00			1/2" Ice	2.03	1.39	0.09
			1.00			1" Ice	2.21	1.54	0.11
RF4439D-25A	C	From Leg	4.00	0.0000	93.00	No Ice	1.87	1.25	0.07
			0.00			1/2" Ice	2.03	1.39	0.09
			1.00			1" Ice	2.21	1.54	0.11
RVZDC-6627-PF-48	B	From Leg	2.00	0.0000	93.00	No Ice	3.79	2.51	0.03
			0.00			1/2" Ice	4.04	2.73	0.06
			1.00			1" Ice	4.30	2.95	0.10
BSF0020F3V1	B	From Leg	4.00	0.0000	93.00	No Ice	0.96	0.29	0.02
			0.00			1/2" Ice	1.09	0.36	0.02
			1.00			1" Ice	1.22	0.45	0.03

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
BSF0020F3V1	C	From Leg	4.00 0.00 1.00	0.0000	93.00	No Ice 1/2" Ice 1" Ice	0.96 1.09 1.22	0.29 0.36 0.45	0.02 0.02 0.03
Dual Antenna Mounting Kit	A	From Leg	4.00 0.00 0.00	0.0000	93.00	No Ice 1/2" Ice 1" Ice	1.43 1.92 2.29	1.43 1.92 2.29	0.02 0.03 0.05
Dual Antenna Mounting Kit	B	From Leg	4.00 0.00 0.00	0.0000	93.00	No Ice 1/2" Ice 1" Ice	1.43 1.92 2.29	1.43 1.92 2.29	0.02 0.03 0.05
Dual Antenna Mounting Kit	C	From Leg	4.00 0.00 0.00	0.0000	93.00	No Ice 1/2" Ice 1" Ice	1.43 1.92 2.29	1.43 1.92 2.29	0.02 0.03 0.05
6' x 2" Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	93.00	No Ice 1/2" Ice 1" Ice	1.43 1.92 2.29	1.43 1.92 2.29	0.02 0.03 0.05
6' x 2" Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	93.00	No Ice 1/2" Ice 1" Ice	1.43 1.92 2.29	1.43 1.92 2.29	0.02 0.03 0.05
6' x 2" Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	93.00	No Ice 1/2" Ice 1" Ice	1.43 1.92 2.29	1.43 1.92 2.29	0.02 0.03 0.05
2'6"x4" Pipe Mount	B	From Leg	2.00 0.00 0.00	0.0000	93.00	No Ice 1/2" Ice 1" Ice	0.67 0.91 1.09	0.67 0.91 1.09	0.03 0.04 0.05
Platform Mount [LP 1201-1_KCKR-HR-1] ******	C	None		0.0000	93.00	No Ice 1/2" Ice 1" Ice	37.61 45.62 53.59	37.61 45.62 53.59	2.63 3.48 4.46
APXV18-206517S-C w/ Mount Pipe	A	From Leg	1.00 0.00 0.00	0.0000	75.00	No Ice 1/2" Ice 1" Ice	3.79 4.38 4.99	3.16 3.75 4.35	0.05 0.09 0.15
APXV18-206517S-C w/ Mount Pipe	B	From Leg	1.00 0.00 0.00	0.0000	75.00	No Ice 1/2" Ice 1" Ice	3.79 4.38 4.99	3.16 3.75 4.35	0.05 0.09 0.15
APXV18-206517S-C w/ Mount Pipe ******	C	From Leg	1.00 0.00 0.00	0.0000	75.00	No Ice 1/2" Ice 1" Ice	3.79 4.38 4.99	3.16 3.75 4.35	0.05 0.09 0.15
KS24019-L112A	A	From Leg	6.00 0.00 1.00	0.0000	50.00	No Ice 1/2" Ice 1" Ice	0.14 0.20 0.26	0.14 0.20 0.26	0.01 0.01 0.01
Side Arm Mount [SO 702-1] ******	A	From Leg	3.00 0.00 0.00	0.0000	50.00	No Ice 1/2" Ice 1" Ice	0.62 0.74 0.89	1.49 2.07 2.54	0.03 0.04 0.06

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
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

Comb. No.	Description
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	133 - 128	Pole	Max Tension	39	0.00	0.00	-0.00
			Max. Compression	26	-2.84	-0.13	0.07
			Max. Mx	8	-1.31	-9.54	0.04
			Max. My	2	-1.31	-0.04	9.52
			Max. Vy	8	2.44	-9.54	0.04
			Max. Vx	2	-2.44	-0.04	9.52
			Max. Torque	2			-0.15
L2	128 - 123	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-3.35	-0.14	0.08
			Max. Mx	8	-1.70	-22.24	0.05
			Max. My	2	-1.70	-0.05	22.23
			Max. Vy	8	2.64	-22.24	0.05
			Max. Vx	2	-2.65	-0.05	22.23
			Max. Torque	2			-0.15
L3	123 - 118	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-11.85	-0.16	0.11
			Max. Mx	8	-6.35	-47.98	0.06
			Max. My	2	-6.34	-0.06	47.97
			Max. Vy	8	7.46	-47.98	0.06
			Max. Vx	2	-7.46	-0.06	47.97
			Max. Torque	2			-0.15
L4	118 - 113	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-12.40	-0.19	0.14

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Mx	8	-6.73	-86.15	0.08
			Max. My	2	-6.72	-0.07	86.17
			Max. Vy	8	7.81	-86.15	0.08
			Max. Vx	2	-7.82	-0.07	86.17
			Max. Torque	2			-0.15
L5	113 - 108	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-17.90	-0.22	2.45
			Max. Mx	8	-10.03	-133.79	1.58
			Max. My	2	-10.00	-0.08	135.79
			Max. Vy	8	11.52	-133.79	1.58
			Max. Vx	2	-11.64	-0.08	135.79
			Max. Torque	8			1.05
L6	108 - 103	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-18.50	-0.24	2.50
			Max. Mx	8	-10.46	-192.23	1.60
			Max. My	2	-10.44	-0.09	194.87
			Max. Vy	8	11.87	-192.23	1.60
			Max. Vx	2	-11.99	-0.09	194.87
			Max. Torque	8			1.05
L7	103 - 98	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-19.11	-0.27	2.54
			Max. Mx	8	-10.93	-252.41	1.63
			Max. My	2	-10.90	-0.10	255.68
			Max. Vy	8	12.21	-252.41	1.63
			Max. Vx	2	-12.34	-0.10	255.68
			Max. Torque	8			1.05
L8	98 - 93	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-19.73	-0.30	2.58
			Max. Mx	8	-11.41	-314.28	1.65
			Max. My	2	-11.39	-0.12	318.19
			Max. Vy	8	12.55	-314.28	1.65
			Max. Vx	2	-12.68	-0.12	318.19
			Max. Torque	8			1.05
L9	93 - 88	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-28.60	-0.74	2.21
			Max. Mx	8	-16.43	-403.04	1.34
			Max. My	2	-16.41	-0.18	406.89
			Max. Vy	8	17.44	-403.04	1.34
			Max. Vx	2	-17.53	-0.18	406.89
			Max. Torque	8			1.05
L10	88 - 82.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-28.92	-0.75	2.23
			Max. Mx	8	-16.70	-442.41	1.31
			Max. My	2	-16.68	-0.14	446.45
			Max. Vy	8	17.58	-442.41	1.31
			Max. Vx	2	-17.66	-0.14	446.45
			Max. Torque	22			-0.93
L11	82.25 - 80.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-30.08	-0.78	2.28
			Max. Mx	8	-17.60	-531.20	1.23
			Max. My	2	-17.59	-0.05	535.66
			Max. Vy	8	17.95	-531.20	1.23
			Max. Vx	2	-18.03	-0.05	535.66
			Max. Torque	22			-0.93
L12	80.75 - 75.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-30.90	-0.81	2.32
			Max. Mx	8	-18.34	-621.63	1.15
			Max. My	2	-18.33	0.03	626.50
			Max. Vy	8	18.25	-621.63	1.15
			Max. Vx	2	-18.33	0.03	626.50
			Max. Torque	22			-0.93
L13	75.75 - 70.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-32.23	-0.81	2.38
			Max. Mx	8	-19.28	-715.07	1.07
			Max. My	2	-19.27	0.13	720.37
			Max. Vy	8	18.90	-715.07	1.07

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vx	2	-18.98	0.13	720.37
			Max. Torque	22			-0.93
L14	70.75 - 65.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-33.13	-0.80	2.44
			Max. Mx	8	-20.09	-810.21	1.00
			Max. My	2	-20.08	0.23	815.93
			Max. Vy	8	19.18	-810.21	1.00
			Max. Vx	2	-19.26	0.23	815.93
			Max. Torque	22			-0.93
L15	65.75 - 60.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-34.05	-0.79	2.50
			Max. Mx	8	-20.92	-906.71	0.92
			Max. My	2	-20.91	0.32	912.84
			Max. Vy	8	19.45	-906.71	0.92
			Max. Vx	2	-19.53	0.32	912.84
			Max. Torque	22			-0.93
L16	60.75 - 57.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-34.61	-0.78	2.53
			Max. Mx	8	-21.43	-965.23	0.87
			Max. My	2	-21.42	0.38	971.62
			Max. Vy	8	19.60	-965.23	0.87
			Max. Vx	2	-19.68	0.38	971.62
			Max. Torque	22			-0.92
L17	57.75 - 57.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-34.67	-0.78	2.53
			Max. Mx	8	-21.50	-970.13	0.87
			Max. My	2	-21.49	0.38	976.54
			Max. Vy	8	19.61	-970.13	0.87
			Max. Vx	2	-19.69	0.38	976.54
			Max. Torque	22			-0.92
L18	57.5 - 52.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-35.98	-0.76	2.58
			Max. Mx	8	-22.66	-1068.98	0.79
			Max. My	2	-22.65	0.48	1075.80
			Max. Vy	8	19.95	-1068.98	0.79
			Max. Vx	2	-20.03	0.48	1075.80
			Max. Torque	22			-0.92
L19	52.5 - 47.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-37.39	-0.75	2.97
			Max. Mx	8	-23.88	-1169.65	0.89
			Max. My	2	-23.87	0.58	1176.99
			Max. Vy	8	20.34	-1169.65	0.89
			Max. Vx	2	-20.39	0.58	1176.99
			Max. Torque	22			-1.17
L20	47.5 - 40.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-38.06	-0.75	2.99
			Max. Mx	8	-24.48	-1220.67	0.85
			Max. My	2	-24.47	0.62	1228.12
			Max. Vy	8	20.50	-1220.67	0.85
			Max. Vx	2	-20.54	0.62	1228.12
			Max. Torque	22			-1.17
L21	40.75 - 40	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-40.41	-0.74	3.03
			Max. Mx	8	-26.49	-1324.10	0.77
			Max. My	2	-26.48	0.72	1331.81
			Max. Vy	8	20.89	-1324.10	0.77
			Max. Vx	2	-20.93	0.72	1331.81
			Max. Torque	22			-1.17
L22	40 - 35	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-41.84	-0.74	3.08
			Max. Mx	8	-27.78	-1429.21	0.69
			Max. My	2	-27.77	0.82	1437.15
			Max. Vy	8	21.18	-1429.21	0.69
			Max. Vx	2	-21.22	0.82	1437.15
			Max. Torque	22			-1.17
L23	35 - 30	Pole	Max Tension	1	0.00	0.00	0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Compression	26	-43.28	-0.73	3.12
			Max. Mx	8	-29.08	-1535.70	0.61
			Max. My	2	-29.08	0.91	1543.89
			Max. Vy	8	21.45	-1535.70	0.61
			Max. Vx	2	-21.49	0.91	1543.89
			Max. Torque	22			-1.17
L24	30 - 26.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-44.37	-0.72	3.15
			Max. Mx	8	-30.07	-1616.44	0.55
			Max. My	2	-30.07	0.98	1624.81
			Max. Vy	8	21.64	-1616.44	0.55
			Max. Vx	2	-21.69	0.98	1624.81
			Max. Torque	22			-1.17
L25	26.25 - 26	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-44.44	-0.72	3.16
			Max. Mx	8	-30.15	-1621.85	0.54
			Max. My	2	-30.15	0.99	1630.23
			Max. Vy	8	21.65	-1621.85	0.54
			Max. Vx	2	-21.69	0.99	1630.23
			Max. Torque	22			-1.17
L26	26 - 21	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-46.00	-0.72	3.20
			Max. Mx	8	-31.57	-1730.68	0.46
			Max. My	2	-31.57	1.08	1739.30
			Max. Vy	8	21.90	-1730.68	0.46
			Max. Vx	2	-21.95	1.08	1739.30
			Max. Torque	22			-1.17
L27	21 - 16	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-47.57	-0.71	3.24
			Max. Mx	8	-33.01	-1840.70	0.38
			Max. My	2	-33.01	1.18	1849.55
			Max. Vy	8	22.13	-1840.70	0.38
			Max. Vx	2	-22.18	1.18	1849.55
			Max. Torque	22			-1.17
L28	16 - 11	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-49.15	-0.70	3.29
			Max. Mx	8	-34.47	-1951.80	0.30
			Max. My	2	-34.47	1.27	1960.88
			Max. Vy	8	22.34	-1951.80	0.30
			Max. Vx	2	-22.38	1.27	1960.88
			Max. Torque	22			-1.17
L29	11 - 6	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-50.74	-0.70	3.33
			Max. Mx	8	-35.95	-2063.91	0.22
			Max. My	2	-35.95	1.36	2073.21
			Max. Vy	8	22.53	-2063.91	0.22
			Max. Vx	2	-22.58	1.36	2073.21
			Max. Torque	22			-1.17
L30	6 - 1	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-52.10	-0.72	3.35
			Max. Mx	8	-37.24	-2176.99	0.13
			Max. My	2	-37.24	1.45	2186.50
			Max. Vy	8	22.72	-2176.99	0.13
			Max. Vx	2	-22.77	1.45	2186.50
			Max. Torque	22			-1.17
L31	1 - 0	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-52.36	-0.72	3.35
			Max. Mx	8	-37.50	-2199.72	0.12
			Max. My	2	-37.50	1.46	2209.27
			Max. Vy	8	22.76	-2199.72	0.12
			Max. Vx	2	-22.80	1.46	2209.27
			Max. Torque	22			-1.17

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	27	52.36	0.00	6.38
	Max. H_x	20	37.51	22.75	0.02
	Max. H_z	2	37.51	0.02	22.79
	Max. M_x	2	2209.27	0.02	22.79
	Max. M_z	8	2199.72	-22.75	-0.02
	Max. Torsion	10	1.16	-19.71	-11.41
	Min. Vert	7	28.13	-19.69	11.38
	Min. H_x	8	37.51	-22.75	-0.02
	Min. H_z	14	37.51	-0.02	-22.79
	Min. M_x	14	-2205.21	-0.02	-22.79
	Min. M_z	20	-2198.80	22.75	0.02
	Min. Torsion	22	-1.17	19.71	11.41

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	31.26	0.00	-0.00	-1.62	-0.37	-0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	37.51	-0.02	-22.79	-2209.27	1.46	0.46
0.9 Dead+1.0 Wind 0 deg - No Ice	28.13	-0.02	-22.79	-2174.90	1.56	0.45
1.2 Dead+1.0 Wind 30 deg - No Ice	37.51	11.36	-19.72	-1912.62	-1098.41	-0.15
0.9 Dead+1.0 Wind 30 deg - No Ice	28.13	11.36	-19.72	-1882.79	-1081.48	-0.13
1.2 Dead+1.0 Wind 60 deg - No Ice	37.51	19.69	-11.38	-1104.01	-1904.11	-0.71
0.9 Dead+1.0 Wind 60 deg - No Ice	28.13	19.69	-11.38	-1086.58	-1874.84	-0.68
1.2 Dead+1.0 Wind 90 deg - No Ice	37.51	22.75	0.02	-0.12	-2199.72	-1.08
0.9 Dead+1.0 Wind 90 deg - No Ice	28.13	22.75	0.02	0.41	-2165.93	-1.04
1.2 Dead+1.0 Wind 120 deg - No Ice	37.51	19.71	11.41	1103.27	-1906.02	-1.16
0.9 Dead+1.0 Wind 120 deg - No Ice	28.13	19.71	11.41	1086.88	-1876.72	-1.12
1.2 Dead+1.0 Wind 150 deg - No Ice	37.51	11.39	19.74	1910.46	-1101.72	-0.93
0.9 Dead+1.0 Wind 150 deg - No Ice	28.13	11.39	19.74	1881.71	-1084.75	-0.91
1.2 Dead+1.0 Wind 180 deg - No Ice	37.51	0.02	22.79	2205.21	-2.37	-0.46
0.9 Dead+1.0 Wind 180 deg - No Ice	28.13	0.02	22.79	2171.94	-2.22	-0.45
1.2 Dead+1.0 Wind 210 deg - No Ice	37.51	-11.36	19.72	1908.55	1097.50	0.14
0.9 Dead+1.0 Wind 210 deg - No Ice	28.13	-11.36	19.72	1879.82	1080.82	0.12
1.2 Dead+1.0 Wind 240 deg - No Ice	37.51	-19.69	11.38	1099.95	1903.20	0.70
0.9 Dead+1.0 Wind 240 deg - No Ice	28.13	-19.69	11.38	1083.61	1874.18	0.67
1.2 Dead+1.0 Wind 270 deg - No Ice	37.51	-22.75	-0.02	-3.95	2198.80	1.08
0.9 Dead+1.0 Wind 270 deg - No Ice	28.13	-22.75	-0.02	-3.37	2165.26	1.04
1.2 Dead+1.0 Wind 300 deg - No Ice	37.51	-19.71	-11.41	-1107.32	1905.10	1.17
0.9 Dead+1.0 Wind 300 deg	28.13	-19.71	-11.41	-1089.84	1876.06	1.13

Load Combination	Vertical	$Shear_x$	$Shear_z$	Overturning Moment, M_x	Overturning Moment, M_z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
- No Ice 1.2 Dead+1.0 Wind 330 deg	37.51	-11.39	-19.74	-1914.52	1100.81	0.94
- No Ice 0.9 Dead+1.0 Wind 330 deg	28.13	-11.39	-19.74	-1884.67	1084.08	0.91
- No Ice 1.2 Dead+1.0 Ice+1.0 Temp	52.36	0.00	-0.00	-3.35	-0.72	-0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	52.36	-0.00	-6.38	-628.70	-0.37	0.11
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	52.36	3.18	-5.52	-544.75	-312.34	-0.06
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	52.36	5.52	-3.19	-315.76	-540.83	-0.21
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	52.36	6.38	0.00	-3.08	-624.59	-0.31
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	52.36	5.52	3.19	309.49	-541.20	-0.32
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	52.36	3.19	5.53	538.21	-313.00	-0.25
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	52.36	0.00	6.38	621.79	-1.12	-0.11
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	52.36	-3.18	5.52	537.84	310.85	0.06
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	52.36	-5.52	3.19	308.84	539.33	0.21
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	52.36	-6.38	-0.00	-3.83	623.10	0.31
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	52.36	-5.52	-3.19	-316.41	539.71	0.32
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	52.36	-3.19	-5.53	-545.13	311.50	0.25
Dead+Wind 0 deg - Service	31.26	-0.00	-5.55	-534.80	0.08	0.11
Dead+Wind 30 deg - Service	31.26	2.77	-4.80	-463.15	-265.58	-0.03
Dead+Wind 60 deg - Service	31.26	4.80	-2.77	-267.84	-460.18	-0.17
Dead+Wind 90 deg - Service	31.26	5.54	0.00	-1.21	-531.58	-0.26
Dead+Wind 120 deg - Service	31.26	4.80	2.78	265.29	-460.64	-0.28
Dead+Wind 150 deg - Service	31.26	2.77	4.81	460.27	-266.38	-0.23
Dead+Wind 180 deg - Service	31.26	0.00	5.55	531.46	-0.84	-0.11
Dead+Wind 210 deg - Service	31.26	-2.77	4.80	459.80	264.82	0.03
Dead+Wind 240 deg - Service	31.26	-4.80	2.77	264.49	459.43	0.17
Dead+Wind 270 deg - Service	31.26	-5.54	-0.00	-2.14	530.83	0.26
Dead+Wind 300 deg - Service	31.26	-4.80	-2.78	-268.64	459.89	0.28
Dead+Wind 330 deg - Service	31.26	-2.77	-4.81	-463.62	265.62	0.23

Solution Summary

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX	PY	PZ	PX	PY	PZ	% Error
	K	K	K	K	K	K	
1	0.00	-31.26	0.00	0.00	31.26	0.00	0.000%
2	-0.02	-37.51	-22.79	0.02	37.51	22.79	0.000%
3	-0.02	-28.13	-22.79	0.02	28.13	22.79	0.000%
4	11.36	-37.51	-19.72	-11.36	37.51	19.72	0.000%
5	11.36	-28.13	-19.72	-11.36	28.13	19.72	0.000%
6	19.69	-37.51	-11.38	-19.69	37.51	11.38	0.000%
7	19.69	-28.13	-11.38	-19.69	28.13	11.38	0.000%
8	22.75	-37.51	0.02	-22.75	37.51	-0.02	0.000%
9	22.75	-28.13	0.02	-22.75	28.13	-0.02	0.000%
10	19.71	-37.51	11.41	-19.71	37.51	-11.41	0.000%

Load Comb.	Sum of Applied Forces PX K	PY K	PZ K	Sum of Reactions PX K	PY K	PZ K	% Error
11	19.71	-28.13	11.41	-19.71	28.13	-11.41	0.000%
12	11.39	-37.51	19.74	-11.39	37.51	-19.74	0.000%
13	11.39	-28.13	19.74	-11.39	28.13	-19.74	0.000%
14	0.02	-37.51	22.79	-0.02	37.51	-22.79	0.000%
15	0.02	-28.13	22.79	-0.02	28.13	-22.79	0.000%
16	-11.36	-37.51	19.72	11.36	37.51	-19.72	0.000%
17	-11.36	-28.13	19.72	11.36	28.13	-19.72	0.000%
18	-19.69	-37.51	11.38	19.69	37.51	-11.38	0.000%
19	-19.69	-28.13	11.38	19.69	28.13	-11.38	0.000%
20	-22.75	-37.51	-0.02	22.75	37.51	0.02	0.000%
21	-22.75	-28.13	-0.02	22.75	28.13	0.02	0.000%
22	-19.71	-37.51	-11.41	19.71	37.51	11.41	0.000%
23	-19.71	-28.13	-11.41	19.71	28.13	11.41	0.000%
24	-11.39	-37.51	-19.74	11.39	37.51	19.74	0.000%
25	-11.39	-28.13	-19.74	11.39	28.13	19.74	0.000%
26	0.00	-52.36	0.00	-0.00	52.36	0.00	0.000%
27	-0.00	-52.36	-6.38	0.00	52.36	6.38	0.000%
28	3.18	-52.36	-5.52	-3.18	52.36	5.52	0.000%
29	5.52	-52.36	-3.19	-5.52	52.36	3.19	0.000%
30	6.38	-52.36	0.00	-6.38	52.36	-0.00	0.000%
31	5.52	-52.36	3.19	-5.52	52.36	-3.19	0.000%
32	3.19	-52.36	5.53	-3.19	52.36	-5.53	0.000%
33	0.00	-52.36	6.38	-0.00	52.36	-6.38	0.000%
34	-3.18	-52.36	5.52	3.18	52.36	-5.52	0.000%
35	-5.52	-52.36	3.19	5.52	52.36	-3.19	0.000%
36	-6.38	-52.36	-0.00	6.38	52.36	0.00	0.000%
37	-5.52	-52.36	-3.19	5.52	52.36	3.19	0.000%
38	-3.19	-52.36	-5.53	3.19	52.36	5.53	0.000%
39	-0.00	-31.26	-5.55	0.00	31.26	5.55	0.000%
40	2.77	-31.26	-4.80	-2.77	31.26	4.80	0.000%
41	4.80	-31.26	-2.77	-4.80	31.26	2.77	0.000%
42	5.54	-31.26	0.00	-5.54	31.26	-0.00	0.000%
43	4.80	-31.26	2.78	-4.80	31.26	-2.78	0.000%
44	2.77	-31.26	4.81	-2.77	31.26	-4.81	0.000%
45	0.00	-31.26	5.55	-0.00	31.26	-5.55	0.000%
46	-2.77	-31.26	4.80	2.77	31.26	-4.80	0.000%
47	-4.80	-31.26	2.77	4.80	31.26	-2.77	0.000%
48	-5.54	-31.26	-0.00	5.54	31.26	0.00	0.000%
49	-4.80	-31.26	-2.78	4.80	31.26	2.78	0.000%
50	-2.77	-31.26	-4.81	2.77	31.26	4.81	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000564
2	Yes	5	0.00000001	0.00038887
3	Yes	5	0.00000001	0.00016575
4	Yes	7	0.00000001	0.00009204
5	Yes	6	0.00000001	0.00041704
6	Yes	7	0.00000001	0.00009367
7	Yes	6	0.00000001	0.00042442
8	Yes	5	0.00000001	0.00078237
9	Yes	5	0.00000001	0.00034749
10	Yes	7	0.00000001	0.00008961
11	Yes	6	0.00000001	0.00040639
12	Yes	7	0.00000001	0.00009414
13	Yes	6	0.00000001	0.00042716
14	Yes	5	0.00000001	0.00044702
15	Yes	5	0.00000001	0.00019537
16	Yes	7	0.00000001	0.00009195
17	Yes	6	0.00000001	0.00041711
18	Yes	7	0.00000001	0.00009018
19	Yes	6	0.00000001	0.00040929
20	Yes	5	0.00000001	0.00085270
21	Yes	5	0.00000001	0.00038081

22	Yes	7	0.00000001	0.00009490
23	Yes	6	0.00000001	0.00043023
24	Yes	7	0.00000001	0.00009051
25	Yes	6	0.00000001	0.00040990
26	Yes	4	0.00000001	0.00040913
27	Yes	6	0.00000001	0.00065583
28	Yes	6	0.00000001	0.00079790
29	Yes	6	0.00000001	0.00079947
30	Yes	6	0.00000001	0.00064938
31	Yes	6	0.00000001	0.00078054
32	Yes	6	0.00000001	0.00078647
33	Yes	6	0.00000001	0.00064252
34	Yes	6	0.00000001	0.00077936
35	Yes	6	0.00000001	0.00077631
36	Yes	6	0.00000001	0.00064598
37	Yes	6	0.00000001	0.00079790
38	Yes	6	0.00000001	0.00079341
39	Yes	4	0.00000001	0.00086182
40	Yes	5	0.00000001	0.00030962
41	Yes	5	0.00000001	0.00032368
42	Yes	5	0.00000001	0.00006959
43	Yes	5	0.00000001	0.00028755
44	Yes	5	0.00000001	0.00032400
45	Yes	4	0.00000001	0.00085638
46	Yes	5	0.00000001	0.00030498
47	Yes	5	0.00000001	0.00029132
48	Yes	5	0.00000001	0.00007010
49	Yes	5	0.00000001	0.00033340
50	Yes	5	0.00000001	0.00029639

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	133 - 128	25.574	39	1.6621	0.0033
L2	128 - 123	23.835	39	1.6585	0.0033
L3	123 - 118	22.105	39	1.6439	0.0032
L4	118 - 113	20.390	39	1.6305	0.0031
L5	113 - 108	18.695	39	1.6052	0.0031
L6	108 - 103	17.032	39	1.5676	0.0029
L7	103 - 98	15.417	39	1.5149	0.0026
L8	98 - 93	13.864	39	1.4497	0.0022
L9	93 - 88	12.385	39	1.3739	0.0019
L10	88 - 82.25	10.991	39	1.2861	0.0017
L11	85.75 - 80.75	10.395	39	1.2425	0.0015
L12	80.75 - 75.75	9.120	39	1.1851	0.0014
L13	75.75 - 70.75	7.925	39	1.0951	0.0012
L14	70.75 - 65.75	6.829	39	0.9988	0.0011
L15	65.75 - 60.75	5.836	39	0.8972	0.0009
L16	60.75 - 57.75	4.951	39	0.7911	0.0008
L17	57.75 - 57.5	4.475	39	0.7256	0.0007
L18	57.5 - 52.5	4.437	39	0.7226	0.0007
L19	52.5 - 47.5	3.713	39	0.6602	0.0006
L20	47.5 - 40.75	3.055	39	0.5955	0.0005
L21	45 - 40	2.752	39	0.5627	0.0005
L22	40 - 35	2.180	39	0.5250	0.0005
L23	35 - 30	1.666	39	0.4576	0.0004
L24	30 - 26.25	1.222	39	0.3896	0.0003
L25	26.25 - 26	0.936	39	0.3384	0.0003
L26	26 - 21	0.918	39	0.3353	0.0003
L27	21 - 16	0.600	39	0.2718	0.0002
L28	16 - 11	0.349	39	0.2082	0.0002
L29	11 - 6	0.165	39	0.1432	0.0001
L30	6 - 1	0.049	39	0.0783	0.0001
L31	1 - 0	0.001	39	0.0130	0.0000

Critical Deflections and Radius of Curvature - Service Wind

Elevation	Appurtenance	Gov. Load Comb.	Deflection	Tilt	Twist	Radius of Curvature
ft			in	°	°	ft
133.00	Lighting Rod 5/8" x 5'	39	25.574	1.6621	0.0033	31642
132.00	TPA65R-BU8D_CCIV2 w/ Mount Pipe	39	25.226	1.6620	0.0033	31642
120.00	AIR 6419 B41_TMO w/ Mount Pipe	39	21.074	1.6364	0.0032	17294
110.00	MX08FRO665-21 w/ Mount Pipe	39	17.692	1.5843	0.0030	7237
93.00	BXA-70063-4CF-EDIN-X w/ Mount Pipe	39	12.385	1.3739	0.0019	3520
75.00	APXV18-206517S-C w/ Mount Pipe	39	7.755	1.0804	0.0012	3033
50.00	KS24019-L112A	39	3.375	0.6286	0.0006	4398

Maximum Tower Deflections - Design Wind

Section No.	Elevation	Horz. Deflection	Gov. Load Comb.	Tilt	Twist
	ft	in		°	°
L1	133 - 128	105.503	2	6.8577	0.0136
L2	128 - 123	98.343	2	6.8431	0.0134
L3	123 - 118	91.221	2	6.7829	0.0131
L4	118 - 113	84.160	2	6.7278	0.0129
L5	113 - 108	77.181	2	6.6233	0.0128
L6	108 - 103	70.336	2	6.4693	0.0120
L7	103 - 98	63.682	2	6.2557	0.0105
L8	98 - 93	57.279	2	5.9896	0.0091
L9	93 - 88	51.176	2	5.6790	0.0079
L10	88 - 82.25	45.422	2	5.3178	0.0068
L11	85.75 - 80.75	42.962	2	5.1380	0.0063
L12	80.75 - 75.75	37.693	2	4.9008	0.0058
L13	75.75 - 70.75	32.759	2	4.5291	0.0051
L14	70.75 - 65.75	28.226	2	4.1311	0.0044
L15	65.75 - 60.75	24.122	2	3.7106	0.0038
L16	60.75 - 57.75	20.467	2	3.2717	0.0032
L17	57.75 - 57.5	18.497	2	3.0009	0.0029
L18	57.5 - 52.5	18.340	2	2.9883	0.0028
L19	52.5 - 47.5	15.347	2	2.7300	0.0025
L20	47.5 - 40.75	12.628	2	2.4624	0.0022
L21	45 - 40	11.375	2	2.3267	0.0021
L22	40 - 35	9.011	2	2.1708	0.0019
L23	35 - 30	6.884	2	1.8918	0.0016
L24	30 - 26.25	5.050	2	1.6107	0.0013
L25	26.25 - 26	3.868	2	1.3990	0.0011
L26	26 - 21	3.796	2	1.3862	0.0011
L27	21 - 16	2.482	2	1.1235	0.0009
L28	16 - 11	1.443	2	0.8606	0.0006
L29	11 - 6	0.682	2	0.5917	0.0004
L30	6 - 1	0.203	2	0.3237	0.0002
L31	1 - 0	0.006	2	0.0535	0.0000

Critical Deflections and Radius of Curvature - Design Wind

Elevation	Appurtenance	Gov. Load Comb.	Deflection	Tilt	Twist	Radius of Curvature
ft			in	°	°	ft
133.00	Lighting Rod 5/8" x 5'	2	105.503	6.8577	0.0136	8004
132.00	TPA65R-BU8D_CCIV2 w/ Mount Pipe	2	104.070	6.8574	0.0136	8004
120.00	AIR 6419 B41_TMO w/ Mount Pipe	2	86.977	6.7521	0.0130	4316

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
110.00	MX08FRO665-21 w/ Mount Pipe	2	73.054	6.5374	0.0125	1819
93.00	BXA-70063-4CF-EDIN-X w/ Mount Pipe	2	51.176	5.6790	0.0080	873
75.00	APXV18-206517S-C w/ Mount Pipe	2	32.052	4.4685	0.0050	742
50.00	KS24019-L112A	2	13.952	2.5995	0.0024	1067

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	133 - 128 (1)	TP14x14x0.375	5.00	0.00	0.0	16.0516	-1.31	606.75	0.002
L2	128 - 123 (2)	TP14x14x0.375	5.00	0.00	0.0	16.0516	-1.70	606.75	0.003
L3	123 - 118 (3)	TP22.7502x22x0.1875	5.00	0.00	0.0	13.4276	-6.35	725.09	0.009
L4	118 - 113 (4)	TP23.5004x22.7502x0.1875	5.00	0.00	0.0	13.8741	-6.72	749.20	0.009
L5	113 - 108 (5)	TP24.2506x23.5004x0.1875	5.00	0.00	0.0	14.3205	-10.00	773.31	0.013
L6	108 - 103 (6)	TP25.0007x24.2506x0.1875	5.00	0.00	0.0	14.7670	-10.44	797.42	0.013
L7	103 - 98 (7)	TP25.7509x25.0007x0.1875	5.00	0.00	0.0	15.2134	-10.90	821.52	0.013
L8	98 - 93 (8)	TP26.5011x25.7509x0.1875	5.00	0.00	0.0	15.6599	-11.39	845.63	0.013
L9	93 - 88 (9)	TP27.2513x26.5011x0.1875	5.00	0.00	0.0	16.1063	-16.41	869.74	0.019
L10	88 - 82.25 (10)	TP28.114x27.2513x0.1875	5.75	0.00	0.0	16.3072	-16.68	880.59	0.019
L11	82.25 - 80.75 (11)	TP27.9641x27.2139x0.25	5.00	0.00	0.0	21.9911	-17.59	1286.48	0.014
L12	80.75 - 75.75 (12)	TP28.7143x27.9641x0.25	5.00	0.00	0.0	22.5865	-18.33	1321.31	0.014
L13	75.75 - 70.75 (13)	TP29.4646x28.7143x0.25	5.00	0.00	0.0	23.1818	-19.27	1356.13	0.014
L14	70.75 - 65.75 (14)	TP30.2148x29.4646x0.25	5.00	0.00	0.0	23.7771	-20.08	1390.96	0.014
L15	65.75 - 60.75 (15)	TP30.9651x30.2148x0.25	5.00	0.00	0.0	24.3724	-20.91	1425.79	0.015
L16	60.75 - 57.75 (16)	TP31.4152x30.9651x0.25	3.00	0.00	0.0	24.7296	-21.42	1446.68	0.015
L17	57.75 - 57.5 (17)	TP31.4527x31.4152x0.4625	0.25	0.00	0.0	45.4929	-21.49	2661.33	0.008
L18	57.5 - 52.5 (18)	TP32.2029x31.4527x0.4563	5.00	0.00	0.0	45.9736	-22.65	2689.45	0.008
L19	52.5 - 47.5 (19)	TP32.9532x32.2029x0.45	5.00	0.00	0.0	46.4243	-23.87	2715.82	0.009
L20	47.5 - 40.75 (20)	TP33.966x32.9532x0.45	6.75	0.00	0.0	46.9601	-24.47	2747.16	0.009
L21	40.75 - 40 (21)	TP33.5785x32.8283x0.4813	5.00	0.00	0.0	50.5556	-26.48	2957.50	0.009
L22	40 - 35 (22)	TP34.3287x33.5785x0.4688	5.00	0.00	0.0	50.3772	-27.77	2947.07	0.009
L23	35 - 30 (23)	TP35.0789x34.3287x0.4688	5.00	0.00	0.0	51.4934	-29.08	3012.36	0.010
L24	30 - 26.25 (24)	TP35.6415x35.0789x0.4688	3.75	0.00	0.0	52.3305	-30.07	3061.33	0.010
L25	26.25 - 26 (25)	TP35.679x35.6415x0.5188	0.25	0.00	0.0	57.8918	-30.15	3386.67	0.009

Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft		ft	ft		in^2	K	K	
L26	26 - 21 (26)	TP36.4292x35.679x0.5063	5.00	0.00	0.0	57.7224	-31.57	3376.76	0.009
L27	21 - 16 (27)	TP37.1794x36.4292x0.5063	5.00	0.00	0.0	58.9278	-33.01	3447.28	0.010
L28	16 - 11 (28)	TP37.9296x37.1794x0.4938	5.00	0.00	0.0	58.6680	-34.47	3432.08	0.010
L29	11 - 6 (29)	TP38.6798x37.9296x0.4938	5.00	0.00	0.0	59.8437	-35.95	3500.86	0.010
L30	6 - 1 (30)	TP39.43x38.6798x0.4875	5.00	0.00	0.0	60.2566	-37.24	3525.01	0.011
L31	1 - 0 (31)	TP39.58x39.43x0.4875	1.00	0.00	0.0	60.4888	-37.50	3538.60	0.011

Pole Bending Design Data

Section No.	Elevation	Size	M_{ux}	ϕM_{nx}	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy}	ϕM_{ny}	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
	ft		kip-ft	kip-ft		kip-ft	kip-ft	
L1	133 - 128 (1)	TP14x14x0.375	9.55	219.34	0.044	0.00	219.34	0.000
L2	128 - 123 (2)	TP14x14x0.375	22.26	219.34	0.101	0.00	219.34	0.000
L3	123 - 118 (3)	TP22.7502x22x0.1875	48.00	404.88	0.119	0.00	404.88	0.000
L4	118 - 113 (4)	TP23.5004x22.7502x0.1875	86.19	427.97	0.201	0.00	427.97	0.000
L5	113 - 108 (5)	TP24.2506x23.5004x0.1875	135.79	451.39	0.301	0.00	451.39	0.000
L6	108 - 103 (6)	TP25.0007x24.2506x0.1875	194.87	475.10	0.410	0.00	475.10	0.000
L7	103 - 98 (7)	TP25.7509x25.0007x0.1875	255.68	499.08	0.512	0.00	499.08	0.000
L8	98 - 93 (8)	TP26.5011x25.7509x0.1875	318.19	523.31	0.608	0.00	523.31	0.000
L9	93 - 88 (9)	TP27.2513x26.5011x0.1875	406.89	547.75	0.743	0.00	547.75	0.000
L10	88 - 82.25 (10)	TP28.114x27.2513x0.1875	446.45	558.81	0.799	0.00	558.81	0.000
L11	82.25 - 80.75 (11)	TP27.9641x27.2139x0.25	535.66	893.20	0.600	0.00	893.20	0.000
L12	80.75 - 75.75 (12)	TP28.7143x27.9641x0.25	626.50	935.05	0.670	0.00	935.05	0.000
L13	75.75 - 70.75 (13)	TP29.4646x28.7143x0.25	720.37	977.43	0.737	0.00	977.43	0.000
L14	70.75 - 65.75 (14)	TP30.2148x29.4646x0.25	815.93	1020.31	0.800	0.00	1020.31	0.000
L15	65.75 - 60.75 (15)	TP30.9651x30.2148x0.25	912.84	1063.66	0.858	0.00	1063.66	0.000
L16	60.75 - 57.75 (16)	TP31.4152x30.9651x0.25	971.62	1089.88	0.891	0.00	1089.88	0.000
L17	57.75 - 57.5 (17)	TP31.4527x31.4152x0.4625	976.53	2138.88	0.457	0.00	2138.88	0.000
L18	57.5 - 52.5 (18)	TP32.2029x31.4527x0.4563	1075.80	2215.45	0.486	0.00	2215.45	0.000
L19	52.5 - 47.5 (19)	TP32.9532x32.2029x0.45	1176.98	2291.67	0.514	0.00	2291.67	0.000
L20	47.5 - 40.75 (20)	TP33.966x32.9532x0.45	1228.13	2345.23	0.524	0.00	2345.23	0.000
L21	40.75 - 40 (21)	TP33.5785x32.8283x0.4813	1331.81	2539.47	0.524	0.00	2539.47	0.000
L22	40 - 35 (22)	TP34.3287x33.5785x0.4688	1437.15	2590.61	0.555	0.00	2590.61	0.000
L23	35 - 30 (23)	TP35.0789x34.3287x0.4688	1543.89	2707.47	0.570	0.00	2707.47	0.000
L24	30 - 26.25 (24)	TP35.6415x35.0789x0.4688	1624.82	2796.82	0.581	0.00	2796.82	0.000
L25	26.25 - 26 (25)	TP35.679x35.6415x0.5188	1630.23	3088.59	0.528	0.00	3088.59	0.000

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L26	26 - 21 (26)	TP36.4292x35.679x0.5063	1739.30	3148.41	0.552	0.00	3148.41	0.000
L27	21 - 16 (27)	TP37.1794x36.4292x0.5063	1849.56	3282.21	0.564	0.00	3282.21	0.000
L28	16 - 11 (28)	TP37.9296x37.1794x0.4938	1960.88	3337.72	0.587	0.00	3337.72	0.000
L29	11 - 6 (29)	TP38.6798x37.9296x0.4938	2073.22	3473.72	0.597	0.00	3473.72	0.000
L30	6 - 1 (30)	TP39.43x38.6798x0.4875	2186.50	3568.43	0.613	0.00	3568.43	0.000
L31	1 - 0 (31)	TP39.58x39.43x0.4875	2209.27	3596.15	0.614	0.00	3596.15	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	133 - 128 (1)	TP14x14x0.375	2.44	182.03	0.013	0.09	218.04	0.000
L2	128 - 123 (2)	TP14x14x0.375	2.64	182.03	0.015	0.09	218.04	0.000
L3	123 - 118 (3)	TP22.7502x22x0.1875	7.46	217.53	0.034	0.13	429.82	0.000
L4	118 - 113 (4)	TP23.5004x22.7502x0.1875	7.82	224.76	0.035	0.13	458.88	0.000
L5	113 - 108 (5)	TP24.2506x23.5004x0.1875	11.64	231.99	0.050	0.15	488.88	0.000
L6	108 - 103 (6)	TP25.0007x24.2506x0.1875	11.99	239.22	0.050	0.15	519.84	0.000
L7	103 - 98 (7)	TP25.7509x25.0007x0.1875	12.34	246.46	0.050	0.15	551.75	0.000
L8	98 - 93 (8)	TP26.5011x25.7509x0.1875	12.68	253.69	0.050	0.15	584.61	0.000
L9	93 - 88 (9)	TP27.2513x26.5011x0.1875	17.53	259.48	0.068	0.46	618.42	0.001
L10	88 - 82.25 (10)	TP28.114x27.2513x0.1875	17.66	262.55	0.067	0.46	633.94	0.001
L11	82.25 - 80.75 (11)	TP27.9641x27.2139x0.25	18.03	385.94	0.047	0.46	936.71	0.000
L12	80.75 - 75.75 (12)	TP28.7143x27.9641x0.25	18.33	396.39	0.046	0.46	988.12	0.000
L13	75.75 - 70.75 (13)	TP29.4646x28.7143x0.25	18.98	406.84	0.047	0.46	1040.88	0.000
L14	70.75 - 65.75 (14)	TP30.2148x29.4646x0.25	19.26	417.29	0.046	0.46	1095.03	0.000
L15	65.75 - 60.75 (15)	TP30.9651x30.2148x0.25	19.53	427.74	0.046	0.46	1150.55	0.000
L16	60.75 - 57.75 (16)	TP31.4152x30.9651x0.25	19.68	434.00	0.045	0.46	1184.53	0.000
L17	57.75 - 57.5 (17)	TP31.4527x31.4152x0.4625	19.69	798.40	0.025	0.46	2166.83	0.000
L18	57.5 - 52.5 (18)	TP32.2029x31.4527x0.4563	20.03	806.84	0.025	0.46	2243.18	0.000
L19	52.5 - 47.5 (19)	TP32.9532x32.2029x0.45	20.39	814.75	0.025	0.46	2319.15	0.000
L20	47.5 - 40.75 (20)	TP33.966x32.9532x0.45	20.54	824.15	0.025	0.46	2372.98	0.000
L21	40.75 - 40 (21)	TP33.5785x32.8283x0.4813	20.93	887.25	0.024	0.46	2571.69	0.000
L22	40 - 35 (22)	TP34.3287x33.5785x0.4688	21.22	884.12	0.024	0.46	2621.67	0.000
L23	35 - 30 (23)	TP35.0789x34.3287x0.4688	21.49	903.71	0.024	0.46	2739.13	0.000
L24	30 - 26.25 (24)	TP35.6415x35.0789x0.4688	21.69	918.40	0.024	0.46	2828.90	0.000
L25	26.25 - 26 (25)	TP35.679x35.6415x0.5188	21.69	1016.00	0.021	0.46	3128.43	0.000
L26	26 - 21 (26)	TP36.4292x35.679x0.5063	21.95	1013.03	0.022	0.46	3186.93	0.000

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 $\frac{T_u}{\phi T_n}$
L27	21 - 16 (27)	TP37.1794x36.4292x0.5063	22.18	1034.18	0.021	0.46	3321.43	0.000
L28	16 - 11 (28)	TP37.9296x37.1794x0.4938	22.38	1029.62	0.022	0.46	3375.57	0.000
L29	11 - 6 (29)	TP38.6798x37.9296x0.4938	22.58	1050.26	0.021	0.46	3512.21	0.000
L30	6 - 1 (30)	TP39.43x38.6798x0.4875	22.77	1057.50	0.022	0.46	3606.50	0.000
L31	1 - 0 (31)	TP39.58x39.43x0.4875	22.80	1061.58	0.021	0.46	3634.34	0.000

Pole Interaction Design Data

Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	133 - 128 (1)	0.002	0.044	0.000	0.013	0.000	0.046	1.050	4.8.2
L2	128 - 123 (2)	0.003	0.101	0.000	0.015	0.000	0.104	1.050	4.8.2
L3	123 - 118 (3)	0.009	0.119	0.000	0.034	0.000	0.128	1.050	4.8.2
L4	118 - 113 (4)	0.009	0.201	0.000	0.035	0.000	0.212	1.050	4.8.2
L5	113 - 108 (5)	0.013	0.301	0.000	0.050	0.000	0.316	1.050	4.8.2
L6	108 - 103 (6)	0.013	0.410	0.000	0.050	0.000	0.426	1.050	4.8.2
L7	103 - 98 (7)	0.013	0.512	0.000	0.050	0.000	0.528	1.050	4.8.2
L8	98 - 93 (8)	0.013	0.608	0.000	0.050	0.000	0.624	1.050	4.8.2
L9	93 - 88 (9)	0.019	0.743	0.000	0.068	0.001	0.766	1.050	4.8.2
L10	88 - 82.25 (10)	0.019	0.799	0.000	0.067	0.001	0.822	1.050	4.8.2
L11	82.25 - 80.75 (11)	0.014	0.600	0.000	0.047	0.000	0.616	1.050	4.8.2
L12	80.75 - 75.75 (12)	0.014	0.670	0.000	0.046	0.000	0.686	1.050	4.8.2
L13	75.75 - 70.75 (13)	0.014	0.737	0.000	0.047	0.000	0.753	1.050	4.8.2
L14	70.75 - 65.75 (14)	0.014	0.800	0.000	0.046	0.000	0.816	1.050	4.8.2
L15	65.75 - 60.75 (15)	0.015	0.858	0.000	0.046	0.000	0.875	1.050	4.8.2
L16	60.75 - 57.75 (16)	0.015	0.891	0.000	0.045	0.000	0.908	1.050	4.8.2
L17	57.75 - 57.5 (17)	0.008	0.457	0.000	0.025	0.000	0.465	1.050	4.8.2
L18	57.5 - 52.5 (18)	0.008	0.486	0.000	0.025	0.000	0.495	1.050	4.8.2
L19	52.5 - 47.5 (19)	0.009	0.514	0.000	0.025	0.000	0.523	1.050	4.8.2
L20	47.5 - 40.75 (20)	0.009	0.524	0.000	0.025	0.000	0.533	1.050	4.8.2
L21	40.75 - 40 (21)	0.009	0.524	0.000	0.024	0.000	0.534	1.050	4.8.2
L22	40 - 35 (22)	0.009	0.555	0.000	0.024	0.000	0.565	1.050	4.8.2
L23	35 - 30 (23)	0.010	0.570	0.000	0.024	0.000	0.580	1.050	4.8.2
L24	30 - 26.25 (24)	0.010	0.581	0.000	0.024	0.000	0.591	1.050	4.8.2
L25	26.25 - 26 (25)	0.009	0.528	0.000	0.021	0.000	0.537	1.050	4.8.2
L26	26 - 21 (26)	0.009	0.552	0.000	0.022	0.000	0.562	1.050	4.8.2
L27	21 - 16 (27)	0.010	0.564	0.000	0.021	0.000	0.574	1.050	4.8.2
L28	16 - 11 (28)	0.010	0.587	0.000	0.022	0.000	0.598	1.050	4.8.2
L29	11 - 6 (29)	0.010	0.597	0.000	0.021	0.000	0.608	1.050	4.8.2
L30	6 - 1 (30)	0.011	0.613	0.000	0.022	0.000	0.624	1.050	4.8.2
L31	1 - 0 (31)	0.011	0.614	0.000	0.021	0.000	0.625	1.050	4.8.2

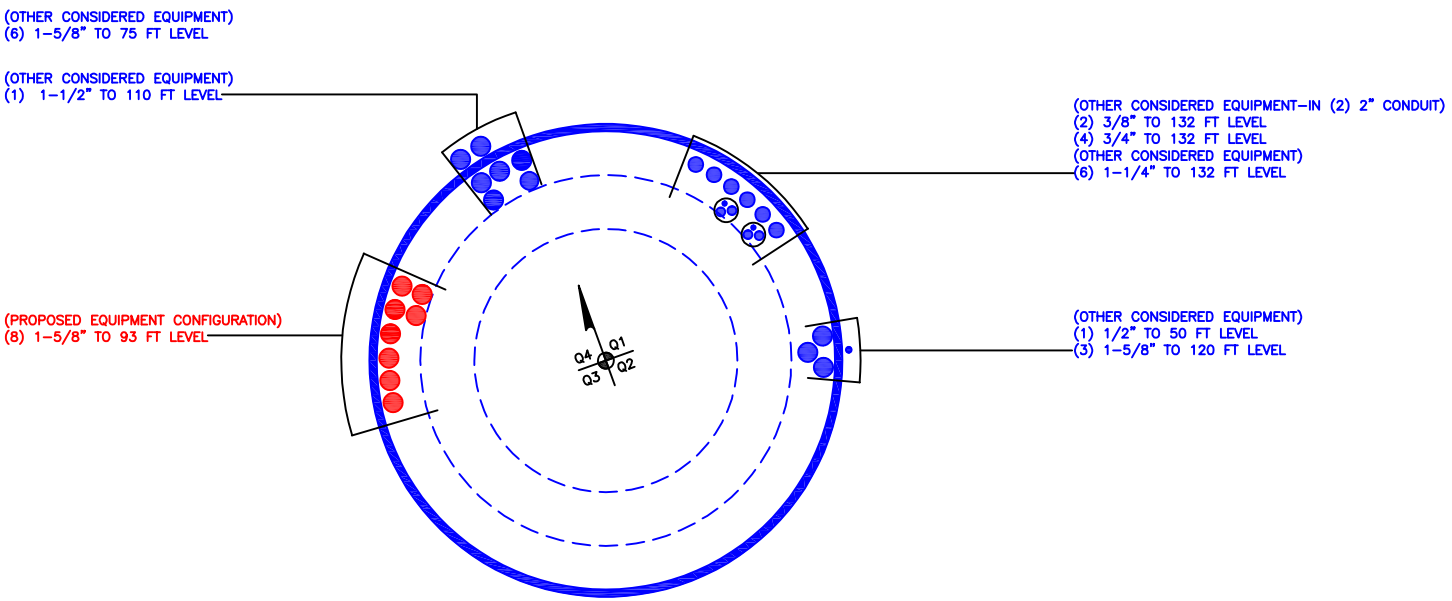
Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	133 - 128	Pole	TP14x14x0.375	1	-1.31	637.09	4.4	Pass
L2	128 - 123	Pole	TP14x14x0.375	2	-1.70	637.09	10.0	Pass
L3	123 - 118	Pole	TP22.7502x22x0.1875	3	-6.35	761.35	12.2	Pass
L4	118 - 113	Pole	TP23.5004x22.7502x0.1875	4	-6.72	786.66	20.2	Pass
L5	113 - 108	Pole	TP24.2506x23.5004x0.1875	5	-10.00	811.97	30.1	Pass
L6	108 - 103	Pole	TP25.0007x24.2506x0.1875	6	-10.44	837.29	40.6	Pass
L7	103 - 98	Pole	TP25.7509x25.0007x0.1875	7	-10.90	862.60	50.3	Pass
L8	98 - 93	Pole	TP26.5011x25.7509x0.1875	8	-11.39	887.92	59.4	Pass
L9	93 - 88	Pole	TP27.2513x26.5011x0.1875	9	-16.41	913.23	73.0	Pass
L10	88 - 82.25	Pole	TP28.114x27.2513x0.1875	10	-16.68	924.62	78.3	Pass
L11	82.25 - 80.75	Pole	TP27.9641x27.2139x0.25	11	-17.59	1350.80	58.6	Pass
L12	80.75 - 75.75	Pole	TP28.7143x27.9641x0.25	12	-18.33	1387.38	65.3	Pass
L13	75.75 - 70.75	Pole	TP29.4646x28.7143x0.25	13	-19.27	1423.94	71.8	Pass
L14	70.75 - 65.75	Pole	TP30.2148x29.4646x0.25	14	-20.08	1460.51	77.7	Pass
L15	65.75 - 60.75	Pole	TP30.9651x30.2148x0.25	15	-20.91	1497.08	83.3	Pass
L16	60.75 - 57.75	Pole	TP31.4152x30.9651x0.25	16	-21.42	1519.01	86.5	Pass
L17	57.75 - 57.5	Pole	TP31.4527x31.4152x0.4625	17	-21.49	2794.40	44.3	Pass
L18	57.5 - 52.5	Pole	TP32.2029x31.4527x0.4563	18	-22.65	2823.92	47.1	Pass
L19	52.5 - 47.5	Pole	TP32.9532x32.2029x0.45	19	-23.87	2851.61	49.8	Pass
L20	47.5 - 40.75	Pole	TP33.966x32.9532x0.45	20	-24.47	2884.52	50.8	Pass
L21	40.75 - 40	Pole	TP33.5785x32.8283x0.4813	21	-26.48	3105.37	50.9	Pass
L22	40 - 35	Pole	TP34.3287x33.5785x0.4688	22	-27.77	3094.42	53.8	Pass
L23	35 - 30	Pole	TP35.0789x34.3287x0.4688	23	-29.08	3162.98	55.3	Pass
L24	30 - 26.25	Pole	TP35.6415x35.0789x0.4688	24	-30.07	3214.40	56.3	Pass
L25	26.25 - 26	Pole	TP35.679x35.6415x0.5188	25	-30.15	3556.00	51.2	Pass
L26	26 - 21	Pole	TP36.4292x35.679x0.5063	26	-31.57	3545.60	53.5	Pass
L27	21 - 16	Pole	TP37.1794x36.4292x0.5063	27	-33.01	3619.64	54.6	Pass
L28	16 - 11	Pole	TP37.9296x37.1794x0.4938	28	-34.47	3603.68	57.0	Pass
L29	11 - 6	Pole	TP38.6798x37.9296x0.4938	29	-35.95	3675.90	57.9	Pass
L30	6 - 1	Pole	TP39.43x38.6798x0.4875	30	-37.24	3701.26	59.4	Pass
L31	1 - 0	Pole	TP39.58x39.43x0.4875	31	-37.50	3715.53	59.6	Pass
							Summary	
						Pole (L16)	86.5	Pass
						RATING =	**86.5**	**Pass**

***NOTE: Above stress ratios for reinforced sections are approximate. More exact calculations are presented in Appendix C.**

APPENDIX B

BASE LEVEL DRAWING



BUSINESS UNIT: 876382 TOWER ID:C_BASELEVEL

APPENDIX C

ADDITIONAL CALCULATIONS

CCIpole

per TIA-222- H

Site BU: 876382

Work Order: 2246059

Pole Geometry

	Pole Height Above Base (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Bend Radius (in)	Pole Material
1	133	10	0	0	14	14	0.375		A500-42
2	123	40.75	3.5	18	22.00	28.114	0.1875	Auto	A607-60
3	85.75	45	4.25	18	27.21	33.966	0.25	Auto	A607-65
4	45	45	0	18	32.83	39.58	0.28125	Auto	A607-65

Reinforcement Configuration

	Bottom Effective Elevation (ft)	Top Effective Elevation (ft)	Type	Model	Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	0	26.25	plate	PL 6.125x1.25	3			M2						M2						M2			
2	26.25	57.75	plate	PL 4.875x1.25	3			M2						M2						M2			
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							

Reinforcement Details

	B (in)	H (in)	Gross Area (in^2)	Pole Face to Centroid (in)	Bottom Termination Type	Bottom Termination Length (in)	Top Termination Type	Top Termination Length (in)	Lu (in)	Net Area (in2)	Bolt Hole Size (in)	Reinforcement Material
1	6.125	1.25	7.65625	0.625	Welded	n/a	PC 8.8 - M20 (100)	27.000	15.000	6.094	1.1875	A572-65
2	4.875	1.25	6.09375	0.625	PC 8.8 - M20 (100)	27	PC 8.8 - M20 (100)	21.000	18.000	4.531	1.1875	A572-65

Connection Details for Custom Reinforcements

Reinforcement	End	# Bolts	N or X	Bolt Spacing (in)	Edge Dist (in)	Weld Grade (ksi)	Transverse (Horiz.) Weld Type	Horiz. Weld Length (in)	Horiz. Groove Depth (in)	Horiz. Groove Angle (deg)	Horiz. Fillet Size (in)	Vertical Weld Length (in)	Vertical Fillet Size (in)	Rev H Connection Capacity (kip)
PL 6.125x1.25	Top	9	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	-	-	-	-	70	CJP Groove	6.125	1.25	45	0.25	-	-	-
PL 4.875x1.25	Top	7	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	9	N	3	3	-	-	-	-	-	-	-	-	-

TNX Geometry Input

Increment (ft): 5 Export to TNX

	Section Height (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Tapered Pole Grade	Weight Multiplier
1	133 - 128	5		0	14.000	14.000	0.375	A500-42	1.000
2	128 - 123	5	0	0	14.000	14.000	0.375	A500-42	1.000
3	123 - 118	5		18	22.000	22.750	0.1875	A607-60	1.000
4	118 - 113	5		18	22.750	23.500	0.1875	A607-60	1.000
5	113 - 108	5		18	23.500	24.251	0.1875	A607-60	1.000
6	108 - 103	5		18	24.251	25.001	0.1875	A607-60	1.000
7	103 - 98	5		18	25.001	25.751	0.1875	A607-60	1.000
8	98 - 93	5		18	25.751	26.501	0.1875	A607-60	1.000
9	93 - 88	5		18	26.501	27.251	0.1875	A607-60	1.000
10	88 - 85.75	5.75	3.5	18	27.251	28.114	0.1875	A607-60	1.000
11	85.75 - 80.75	5		18	27.214	27.964	0.25	A607-65	1.000
12	80.75 - 75.75	5		18	27.964	28.714	0.25	A607-65	1.000
13	75.75 - 70.75	5		18	28.714	29.465	0.25	A607-65	1.000
14	70.75 - 65.75	5		18	29.465	30.215	0.25	A607-65	1.000
15	65.75 - 60.75	5		18	30.215	30.965	0.25	A607-65	1.000
16	60.75 - 57.75	3		18	30.965	31.415	0.25	A607-65	1.000
17	57.75 - 57.5	0.25		18	31.415	31.453	0.4625	A607-65	0.946
18	57.5 - 52.5	5		18	31.453	32.203	0.45625	A607-65	0.949
19	52.5 - 47.5	5		18	32.203	32.953	0.45	A607-65	0.953
20	47.5 - 45	6.75	4.25	18	32.953	33.966	0.45	A607-65	0.948
21	45 - 40	5		18	32.828	33.578	0.48125	A607-65	0.950
22	40 - 35	5		18	33.578	34.329	0.46875	A607-65	0.966
23	35 - 30	5		18	34.329	35.079	0.46875	A607-65	0.958
24	30 - 26.25	3.75		18	35.079	35.642	0.46875	A607-65	0.953
25	26.25 - 26	0.25		18	35.642	35.679	0.51875	A607-65	0.943
26	26 - 21	5		18	35.679	36.429	0.50625	A607-65	0.957
27	21 - 16	5		18	36.429	37.179	0.50625	A607-65	0.949
28	16 - 11	5		18	37.179	37.930	0.49375	A607-65	0.964
29	11 - 6	5		18	37.930	38.680	0.49375	A607-65	0.957
30	6 - 1	5		18	38.680	39.430	0.4875	A607-65	0.961
31	1 - 0	1		18	39.430	39.580	0.4875	A607-65	0.960

TNX Section Forces

Increment (ft):	5	TNX Output		
	Section Height (ft)	P_u (K)	M_{ux} (kip-ft)	V_u (K)
1	133 - 128	1.31	9.55	2.44
2	128 - 123	1.70	22.26	2.64
3	123 - 118	6.35	48.00	7.46
4	118 - 113	6.72	86.19	7.82
5	113 - 108	10.00	135.79	11.64
6	108 - 103	10.44	194.87	11.99
7	103 - 98	10.90	255.68	12.34
8	98 - 93	11.39	318.19	12.68
9	93 - 88	16.41	406.89	17.53
10	88 - 85.75	16.68	446.45	17.66
11	85.75 - 80.75	17.59	535.66	18.03
12	80.75 - 75.75	18.33	626.50	18.33
13	75.75 - 70.75	19.27	720.37	18.98
14	70.75 - 65.75	20.08	815.93	19.26
15	65.75 - 60.75	20.91	912.84	19.53
16	60.75 - 57.75	21.42	971.62	19.68
17	57.75 - 57.5	21.49	976.54	19.69
18	57.5 - 52.5	22.65	1075.80	20.03
19	52.5 - 47.5	23.87	1176.99	20.39
20	47.5 - 45	24.47	1228.12	20.54
21	45 - 40	26.48	1331.81	20.93
22	40 - 35	27.77	1437.15	21.22
23	35 - 30	29.08	1543.89	21.49
24	30 - 26.25	30.07	1624.81	21.69
25	26.25 - 26	30.15	1630.23	21.69
26	26 - 21	31.57	1739.30	21.95
27	21 - 16	33.01	1849.55	22.18
28	16 - 11	34.47	1960.88	22.38
29	11 - 6	35.95	2073.21	22.58
30	6 - 1	37.24	2186.50	22.77
31	1 - 0	37.50	2209.27	22.80

Analysis Results

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
133 - 128	Pole	TP14x14x0.375	Pole	4.4%	Pass
128 - 123	Pole	TP14x14x0.375	Pole	10.0%	Pass
123 - 118	Pole	TP22.75x22x0.1875	Pole	12.2%	Pass
118 - 113	Pole	TP23.5x22.75x0.1875	Pole	20.2%	Pass
113 - 108	Pole	TP24.251x23.5x0.1875	Pole	30.1%	Pass
108 - 103	Pole	TP25.001x24.251x0.1875	Pole	40.6%	Pass
103 - 98	Pole	TP25.751x25.001x0.1875	Pole	50.3%	Pass
98 - 93	Pole	TP26.501x25.751x0.1875	Pole	59.4%	Pass
93 - 88	Pole	TP27.251x26.501x0.1875	Pole	73.0%	Pass
88 - 85.75	Pole	TP28.114x27.251x0.1875	Pole	78.3%	Pass
85.75 - 80.75	Pole	TP27.964x27.214x0.25	Pole	58.6%	Pass
80.75 - 75.75	Pole	TP28.714x27.964x0.25	Pole	65.3%	Pass
75.75 - 70.75	Pole	TP29.465x28.714x0.25	Pole	71.8%	Pass
70.75 - 65.75	Pole	TP30.215x29.465x0.25	Pole	77.7%	Pass
65.75 - 60.75	Pole	TP30.965x30.215x0.25	Pole	83.3%	Pass
60.75 - 57.75	Pole	TP31.415x30.965x0.25	Pole	86.5%	Pass
57.75 - 57.5	Pole + Reinf.	TP31.453x31.415x0.4625	Reinf. 2 Tension Rupture	75.2%	Pass
57.5 - 52.5	Pole + Reinf.	TP32.203x31.453x0.4563	Reinf. 2 Tension Rupture	79.8%	Pass
52.5 - 47.5	Pole + Reinf.	TP32.953x32.203x0.45	Reinf. 2 Tension Rupture	84.2%	Pass
47.5 - 45	Pole + Reinf.	TP33.966x32.953x0.45	Reinf. 2 Tension Rupture	86.3%	Pass
45 - 40	Pole + Reinf.	TP33.578x32.828x0.4813	Reinf. 2 Tension Rupture	86.4%	Pass
40 - 35	Pole + Reinf.	TP34.329x33.578x0.4688	Reinf. 2 Tension Rupture	90.0%	Pass
35 - 30	Pole + Reinf.	TP35.079x34.329x0.4688	Reinf. 2 Tension Rupture	93.3%	Pass
30 - 26.25	Pole + Reinf.	TP35.642x35.079x0.4688	Reinf. 2 Tension Rupture	95.7%	Pass
26.25 - 26	Pole + Reinf.	TP35.679x35.642x0.5188	Reinf. 1 Tension Rupture	81.4%	Pass
26 - 21	Pole + Reinf.	TP36.429x35.679x0.5063	Reinf. 1 Tension Rupture	84.1%	Pass
21 - 16	Pole + Reinf.	TP37.179x36.429x0.5063	Reinf. 1 Tension Rupture	86.6%	Pass
16 - 11	Pole + Reinf.	TP37.93x37.179x0.4938	Reinf. 1 Tension Rupture	88.9%	Pass
11 - 6	Pole + Reinf.	TP38.68x37.93x0.4938	Reinf. 1 Tension Rupture	91.2%	Pass
6 - 1	Pole + Reinf.	TP39.43x38.68x0.4875	Reinf. 1 Tension Rupture	93.2%	Pass
1 - 0	Pole + Reinf.	TP39.58x39.43x0.4875	Reinf. 1 Tension Rupture	93.6%	Pass
				Summary	
			Pole	86.5%	Pass
			Reinforcement	95.7%	Pass
			Overall	95.7%	Pass

Additional Calculations

Section Elevation (ft)	Moment of Inertia (in^4)			Area (in^2)			% Capacity* (100% Max. Allowable)		
	Pole	Reinf.	Total	Pole	Reinf.	Total	Pole	R1	R2
133 - 128	373	n/a	373	16.05	n/a	16.05	4.4%		
128 - 123	373	n/a	373	16.05	n/a	16.05	10.0%		
123 - 118	863	n/a	863	13.43	n/a	13.43	12.2%		
118 - 113	952	n/a	952	13.87	n/a	13.87	20.2%		
113 - 108	1047	n/a	1047	14.32	n/a	14.32	30.1%		
108 - 103	1148	n/a	1148	14.77	n/a	14.77	40.6%		
103 - 98	1256	n/a	1256	15.21	n/a	15.21	50.3%		
98 - 93	1369	n/a	1369	15.66	n/a	15.66	59.4%		
93 - 88	1490	n/a	1490	16.11	n/a	16.11	73.0%		
88 - 85.75	1546	n/a	1546	16.31	n/a	16.31	78.3%		
85.75 - 80.75	2133	n/a	2133	21.99	n/a	21.99	58.6%		
80.75 - 75.75	2311	n/a	2311	22.59	n/a	22.59	65.3%		
75.75 - 70.75	2499	n/a	2499	23.18	n/a	23.18	71.8%		
70.75 - 65.75	2696	n/a	2696	23.78	n/a	23.78	77.7%		
65.75 - 60.75	2904	n/a	2904	24.37	n/a	24.37	83.3%		
60.75 - 57.75	3033	n/a	3033	24.73	n/a	24.73	86.5%		
57.75 - 57.5	3044	2463	5508	24.76	18.28	43.04	47.3%		75.2%
57.5 - 52.5	3269	2577	5846	25.35	18.28	43.63	50.6%		79.8%
52.5 - 47.5	3505	2693	6198	25.95	18.28	44.23	53.9%		84.2%
47.5 - 45	3627	2752	6379	26.25	18.28	44.53	55.5%		86.3%
45 - 40	4162	2791	6953	29.72	18.28	48.00	53.6%		86.4%
40 - 35	4450	2912	7362	30.39	18.28	48.67	56.2%		90.0%
35 - 30	4750	3035	7786	31.06	18.28	49.34	58.7%		93.3%
30 - 26.25	4985	3129	8114	31.56	18.28	49.85	60.6%		95.7%
26.25 - 26	5000	3953	8953	31.60	22.97	54.57	55.2%	81.4%	
26 - 21	5325	4114	9439	32.27	22.97	55.24	57.4%	84.1%	
21 - 16	5664	4277	9941	32.94	22.97	55.91	59.6%	86.6%	
16 - 11	6016	4445	10461	33.61	22.97	56.58	61.7%	88.9%	
11 - 6	6383	4615	10998	34.28	22.97	57.25	63.7%	91.2%	
6 - 1	6764	4789	11553	34.95	22.97	57.92	65.7%	93.2%	
1 - 0	6843	4824	11666	35.08	22.97	58.05	66.1%	93.6%	

Note: Section capacity checked using 5 degree increments.

**Rating per TIA-222-H Section 15.5.*

Monopole Flange Plate Connection

Elevation = 123 ft.

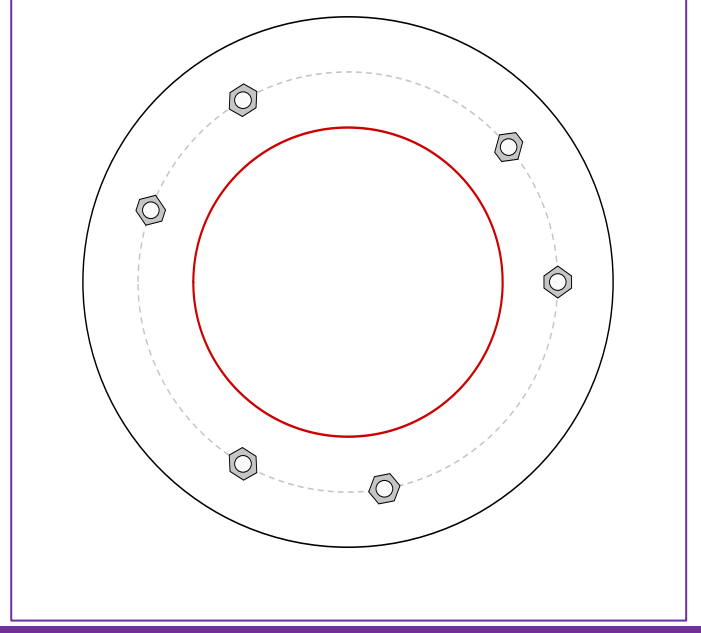
BU #	876382
Site Name	Berlin / Laviana Orchar
Order #	654615 Rev. 1

TIA-222 Revision	H

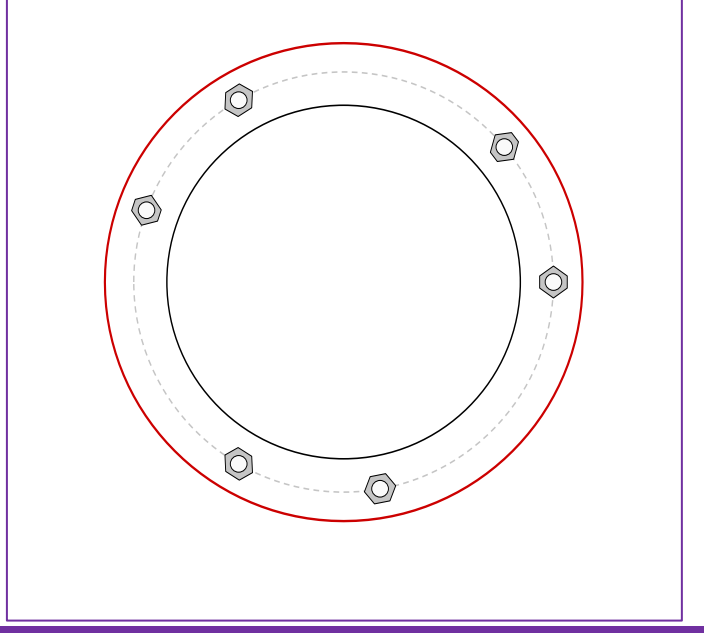
Applied Loads	
Moment (kip-ft)	22.26
Axial Force (kips)	1.70
Shear Force (kips)	2.64

**TIA-222-H Section 15.5 Applied*

Top Plate - External



Bottom Plate - Internal



Connection Properties

Bolt Data

(6) 3/4" ø bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 19" BC

Top Plate Data

24" OD x 1.5" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Bottom Plate Data

16" ID x 0.75" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Top Stiffener Data

N/A

Bottom Stiffener Data

N/A

Top Pole Data

14" x 0.375" round pole (A500-42; Fy=42 ksi, Fu=58 ksi)

Bottom Pole Data

22" x 0.1875" 18-sided pole (A607-60; Fy=60 ksi, Fu=75 ksi)

Analysis Results

Bolt Capacity

Max Load (kips)	9.08	
Allowable (kips)	30.05	
Stress Rating:	**28.8%**	**Pass**

Top Plate Capacity

Max Stress (ksi):	4.85	(Flexural)
Allowable Stress (ksi):	32.40	
Stress Rating:	**14.2%**	**Pass**
Tension Side Stress Rating:	**7.0%**	**Pass**

Bottom Plate Capacity

Max Stress (ksi):	15.01	(Flexural)
Allowable Stress (ksi):	32.40	
Stress Rating:	**44.1%**	**Pass**
Tension Side Stress Rating:	**N/A**	

CCIplate

Elevation (ft)	123

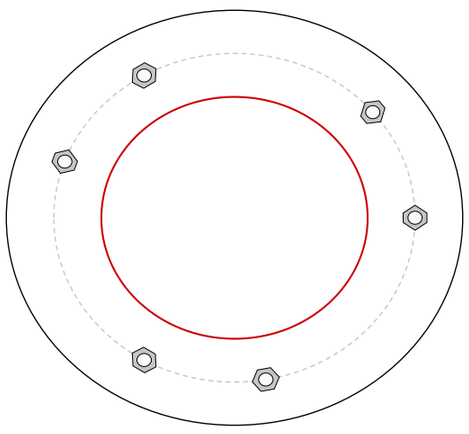
(Flange)

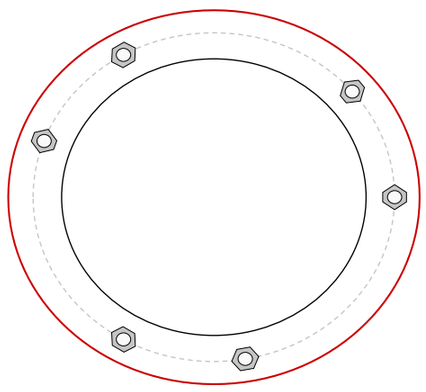
Bolt Group	Resist Axial	Resist Shear	Induce Plate Bending
1	Yes	Yes	Yes

Custom Bolt Connection

Bolt	Bolt Group ID	Location (deg.)	Diameter (in)	Material	Bolt Circle (in)	Eta Factor, η:	I_{ar} (in):	Thread Type	Area Override, in^2	Tension Only
1	1	0	0.75	A325	19	0.5	0	N-Included		No
2	1	40	0.75	A325	19	0.5	0	N-Included		No
3	1	120	0.75	A325	19	0.5	0	N-Included		No
4	1	160	0.75	A325	19	0.5	0	N-Included		No
5	1	240	0.75	A325	19	0.5	0	N-Included		No
6	1	280	0.75	A325	19	0.5	0	N-Included		No

Plot Graphic





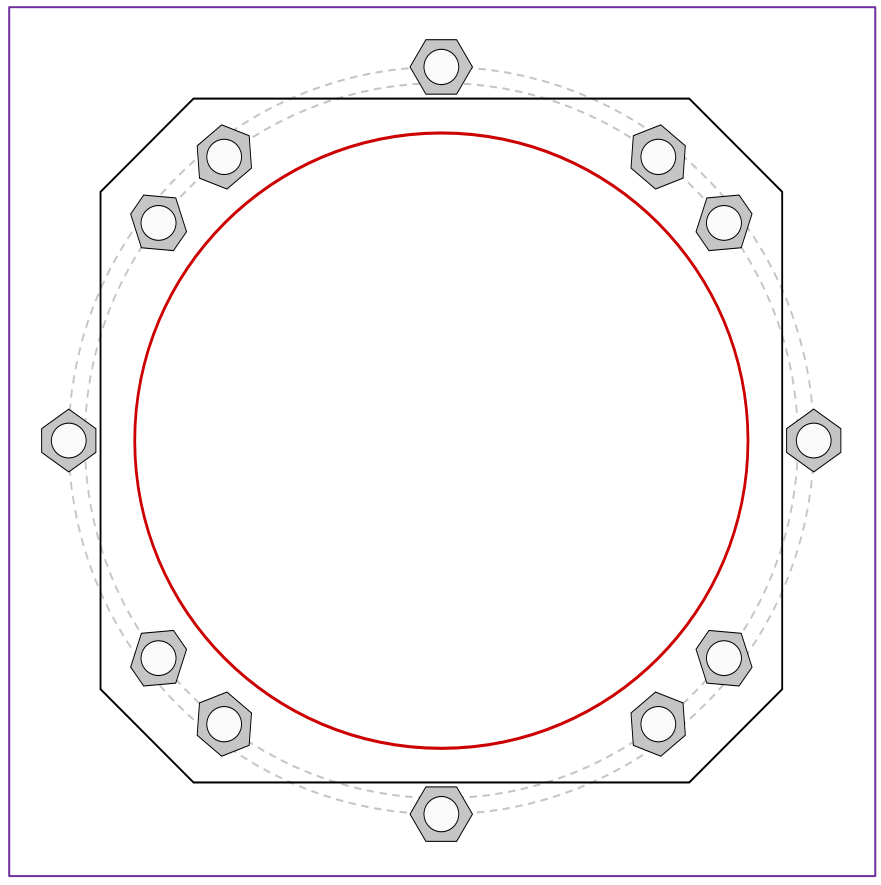
Monopole Base Plate Connection

Site Info	
BU #	876382
Site Name	Berlin / Laviana Orchard
Order #	654615 Rev. 1

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	See Custom Sheet
l_{ar} (in)	See Custom Sheet

Applied Loads	
Moment (kip-ft)	2209.27
Axial Force (kips)	37.50
Shear Force (kips)	22.80

**TIA-222-H Section 15.5 Applied*



Connection Properties

Anchor Rod Data

GROUP 1: (8) 2-1/4" ø bolts (A615-75 N; Fy=75 ksi, Fu=100 ksi) on 46" BC

Anchor Spacing: 6 in

GROUP 2: (4) 2-1/4" ø bolts (A615-75 N; Fy=75 ksi, Fu=100 ksi) on 48.08" BC

Base Plate Data

44" W x 2.75" Plate (A572-55; Fy=55 ksi, Fu=70 ksi); Clip: 6 in

Stiffener Data

N/A

Pole Data

39.58" x 0.2813" 18-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

Analysis Results

Anchor Rod Summary *(units of kips, kip-in)*

GROUP 1:		
Pu_t = 181.33	ϕPn_t = 243.75	**Stress Rating**
Vu = 2.85	ϕVn = 149.1	**70.8%**
Mu = n/a	ϕMn = n/a	**Pass**
GROUP 2:		
Pu_t = 194.61	ϕPn_t = 243.75	**Stress Rating**
Vu = 0	ϕVn = 149.1	**76.0%**
Mu = n/a	ϕMn = n/a	**Pass**

Base Plate Summary

Max Stress (ksi):	26.65	(Flexural)
Allowable Stress (ksi):	49.5	
Stress Rating:	**51.3%**	**Pass**

CCIplate

Elevation (ft)	0	*(Base)*

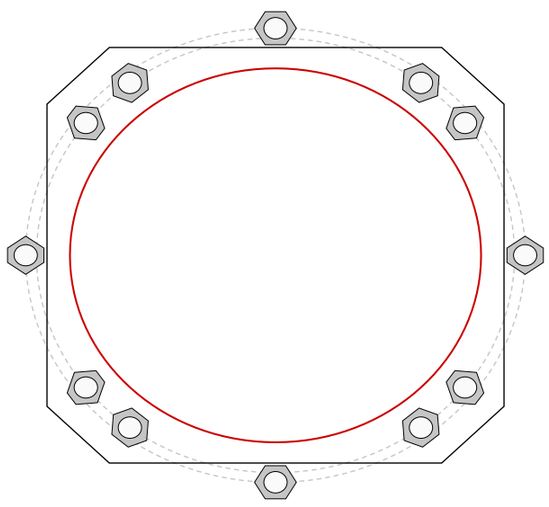
note: Bending interaction not considered when Grout Considered = "Yes"

Bolt Group	Resist Axial	Resist Shear	Induce Plate Bending	Grout Considered	Apply at BARB Elevation	BARB CL Elevation (ft)
1	Yes	Yes	Yes	No	No	
2	No	No	No	No	No	

Custom Bolt Connection

Bolt	Bolt Group ID	Location (deg.)	Diameter (in)	Material	Bolt Circle (in)	Eta Factor, η:	l_{ar} (in):	Thread Type	Area Override, in^2	Tension Only
1	1	37.505283	2.25	A615-75	46	0.5	1.75	N-Included		No
2	1	52.494717	2.25	A615-75	46	0.5	1.75	N-Included		No
3	1	127.50528	2.25	A615-75	46	0.5	1.75	N-Included		No
4	1	142.49472	2.25	A615-75	46	0.5	1.75	N-Included		No
5	1	217.50528	2.25	A615-75	46	0.5	1.75	N-Included		No
6	1	232.49472	2.25	A615-75	46	0.5	1.75	N-Included		No
7	1	307.50528	2.25	A615-75	46	0.5	1.75	N-Included		No
8	1	322.49472	2.25	A615-75	46	0.5	1.75	N-Included		No
9	2	0	2.25	A615-75	48.08	0.5	1.75	N-Included		No
10	2	90	2.25	A615-75	48.08	0.5	1.75	N-Included		No
11	2	180	2.25	A615-75	48.08	0.5	1.75	N-Included		No
12	2	270	2.25	A615-75	48.08	0.5	1.75	N-Included		No

Plot Graphic



Drilled Pier Foundation

BU # :	876382
Site Name:	Berlin / Laviana Orchard
Order Number:	654615 Rev. 1
TIA-222 Revison:	H
Tower Type:	Monopole

Applied Loads	Comp.	Uplift
Moment (kip-ft)	2209.27	
Axial Force (kips)	37.51	
Shear Force (kips)	22.79	

Material Properties		
Concrete Strength, f'c:	3	ksi
Rebar Strength, Fy:	60	ksi
Tie Yield Strength, Fyt:	40	ksi

Pier Design Data		
Depth	20	ft
Ext. Above Grade	0.5	ft
Pier Section 1		
From 0.5' above grade to 20' below grade		
Pier Diameter	6	ft
Rebar Quantity	16	
Rebar Size	11	
Clear Cover to Ties	4	in
Tie Size	5	
Tie Spacing	18	in

Rebar & Pier Options
Embedded Pole Inputs
Belled Pier Inputs

Analysis Results		
Soil Lateral Check	*Compression*	*Uplift*
$D_{v=0}$ (ft from TOC)	5.37	-
Soil Safety Factor	2.77	-
Max Moment (kip-ft)	2317.59	-
Rating*	*45.7%*	-
Soil Vertical Check	*Compression*	*Uplift*
Skin Friction (kips)	127.23	-
End Bearing (kips)	848.23	-
Weight of Concrete (kips)	93.74	-
Total Capacity (kips)	975.46	-
Axial (kips)	131.25	-
Rating*	*12.8%*	-
Reinforced Concrete Flexure	*Compression*	*Uplift*
Critical Depth (ft from TOC)	5.09	-
Critical Moment (kip-ft)	2316.94	-
Critical Moment Capacity	3352.29	-
Rating*	*65.8%*	-
Reinforced Concrete Shear	*Compression*	*Uplift*
Critical Depth (ft from TOC)	14.86	-
Critical Shear (kip)	329.14	-
Critical Shear Capacity	426.78	-
Rating*	*73.5%*	-

Structural Foundation Rating*	**73.5%**
Soil Interaction Rating*	**45.7%**

*Rating per TIA-222-H Section 15.5

Check Limitation	
Apply TIA-222-H Section 15.5:	☑
N/A	☐
Additional Longitudinal Rebar	
Input Effective Depths (else Actual):	☐
Shear Design Options	
Check Shear along Depth of Pier:	☑
Utilize Shear-Friction Methodology:	☐
Override Critical Depth:	☐

Go to Soil Calculations

Soil Profile

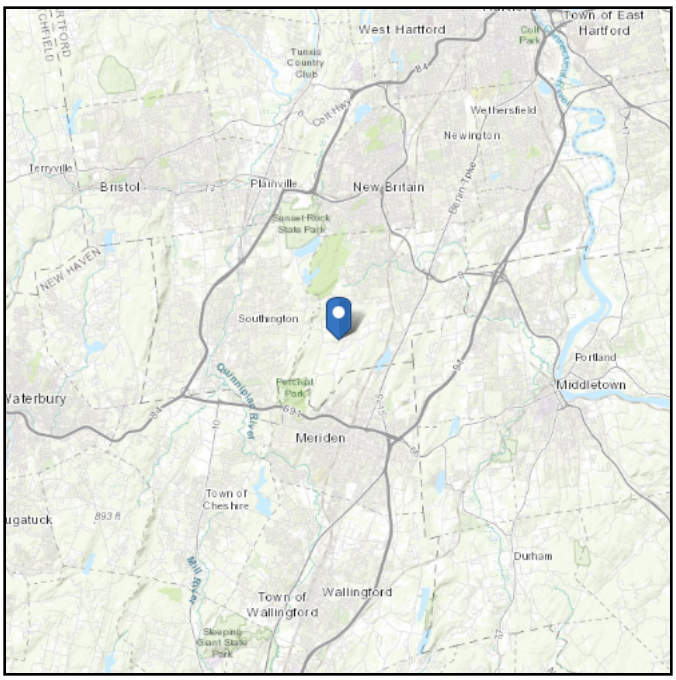
Groundwater Depth	15	# of Layers	4

Layer	Top (ft)	Bottom (ft)	Thickness (ft)	γ_{soil} (pcf)	$\gamma_{concrete}$ (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	135	150	0	0	0.000	0.000	0.00	0.00			Cohesionless
2	3.33	5	1.67	135	150	0	38	0.000	0.000	0.00	0.00			Cohesionless
3	5	15	10	135	150	0	38	0.000	0.000	0.60	0.60			Cohesionless
4	15	20	5	75	87.6	0	38	0.000	0.000	0.60	0.60	40		Cohesionless

ASCE 7 Hazards Report

Address:
No Address at This Location

Standard:	ASCE/SEI 7-16	**Latitude:**	41.589742
Risk Category:	II	**Longitude:**	-72.805333
Soil Class:	D - Default (see Section 11.4.3)	**Elevation:**	352.2487813178924 ft (NAVD 88)



Wind

Results:

Wind Speed	118 Vmph
10-year MRI	75 Vmph
25-year MRI	84 Vmph
50-year MRI	90 Vmph
100-year MRI	98 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: Mon Jul 31 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.

Seismic

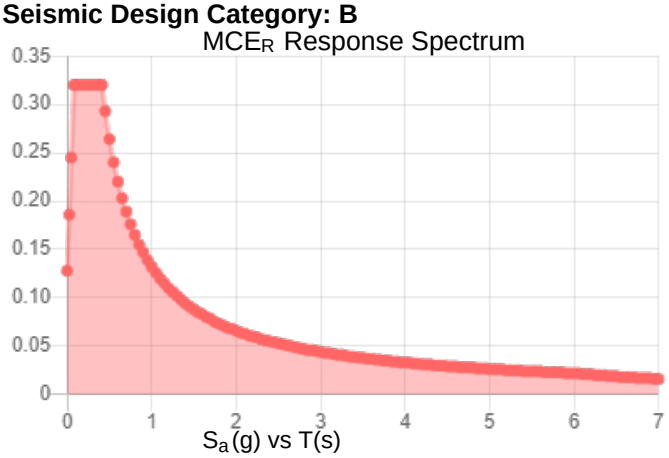
D - Default (see Section 11.4.3)

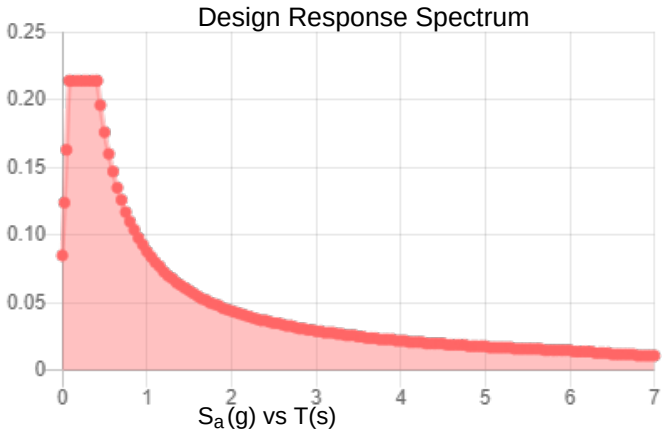
Site Soil Class:

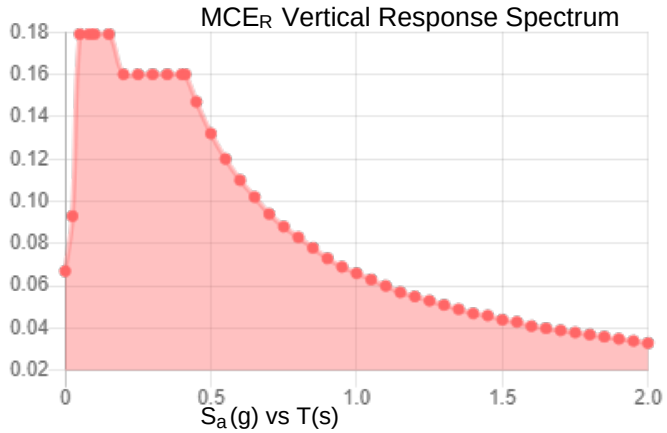
Results:

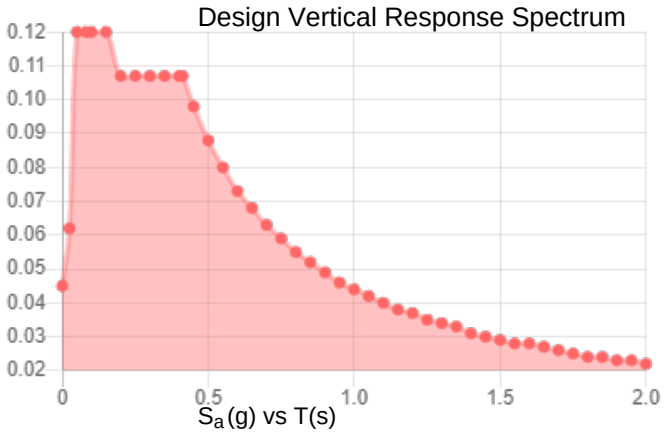
S_S :	0.2	S_{D1} :	0.088
S_1 :	0.055	T_L :	6
F_a :	1.6	PGA :	0.11
F_v :	2.4	PGA_M :	0.174
S_{MS} :	0.32	F_{PGA} :	1.579
S_{M1} :	0.132	I_e :	1
S_{DS} :	0.214	C_v :	0.7

Seismic Design Category: B









Data Accessed: **Mon Jul 31 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:	Mon Jul 31 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.