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

April 19, 2024

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

RE: **Notice of Exempt Modification for Verizon Wireless: 5000247666**
Crown Site ID# 806377
197 South Street, Vernon, CT 06066
Latitude: 41° 51′ 12.51″ / Longitude: -72° 27′ 7.52″

Dear Ms. Bachman:

Verizon Wireless currently maintains fifteen (15) antennas at the 113-foot 7-inch mount on the existing 132-foot self-support tower located at 197 South Street, Vernon, CT. The property and tower are owned by Crown Castle. Verizon now intends to add four (4) interference mitigation filters at the 113-foot 7-inch level. This modification/proposal includes hardware that is both 4G (LTE) and 5G capable through remote software configuration and either or both services may be turned on or off at various times.

Planned Modification:

Tower:

Install New:

(4) Kaelus BSF0020F3V1- Interference Mitigation Filters

The facility was approved by the Connecticut Siting Council, Docket No. 58A, on April 22, 1987.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Daniel Champagne, Mayor, Town of Vernon and Ashley Stephens, Town Planner, Town of Vernon. Crown Castle is the property and tower owner.

1. The proposed modifications will not result in an increase in the height of the existing tower.

2. The proposed modifications will not require the extension of the site boundary.

3. 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.

4. 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.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.

6. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, Verizon Wireless 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).

Please send approval/rejection letter attn: Jeffrey Barbadora.

Sincerely,

Jeffrey Barbadora
Permitting Specialist
1800 W. Park Drive
Westborough, MA 01581
(781) 970-0053
Jeff.Barbadora@crowncastle.com

Attachments

cc: Daniel Champagne, Mayor
Town of Vernon
14 Park Place
Vernon, CT 06066
860-870-3600

Ashley Stephens, Town Planner
Town of Vernon
55 West Main Street, 2nd Floor
Vernon, CT 06066
860-870-3640

Crown Castle, Property & Tower Owner

B1

DOCKET NO. 58A

AN APPLICATION FOR AN AMENDMENT TO THE CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED FOR TELECOMMUNICATIONS TOWERS AND ASSOCIATED EQUIPMENT TO PROVIDE CELLULAR SERVICE IN HARTFORD, MIDDLESEX, AND TOLLAND COUNTIES.	:	CONNECTICUT SITING COUNCIL
	:	April 22, 1987

D E C I S I O N A N D O R D E R

The Connecticut Siting Council (Council) hereby amends the Certificate of Environmental Compatibility and Public Need issued pursuant to sections 16-50g through 16-50x of the Connecticut General Statutes of Connecticut (CGS) for the construction, operation, and maintenance of cellular mobile telephone telecommunications towers and associated equipment in Hartford, Tolland, and Middlesex Counties to permit the relocation of the Vernon tower 250 feet to the west, subject to the conditions below.

1. The tower shall be no taller than necessary to provide the proposed service, and in no event shall exceed a total height, including antennas, of 143 feet.
2. The Certificate holder shall submit a development and management plan (D&M plan) for the Vernon site, pursuant to sections 16-50j-75 through 16-50j-77 of the Regulations of State Agencies (RSA). The D&M plan shall provide plans for evergreen screening around the fenced perimeter of the tower site.
3. This facility shall be constructed, operated, and maintained as specified in the Council's record and in the plan required by order number 2.

CROWN ALANTIC COMPANY, LLC
PMB 353
4017 WASHINGTON RD
MCMURRAY, PA 15317-2520

Neighborhood Number
12000
Neighborhood Name
General Commercial B
TAXING DISTRICT INFORMATION

Jurisdiction Name	Town of Vernon
Area	146
Routing Number	10609

Site Description
Topography
Public Utilities
Street or Road
Neighborhood
Zoning:
Legal Acres:
0.0000

Transfer of Ownership

Valuation Record

Assessment Year		2016	2021
Reason for Change		2016 Reval	2021 Reval
Market	L	0	0
	I	458380	458380
	T	458380	458380
70% Assessed/Use	L	0	0
	I	320870	320870
	T	320870	320870

Land Size

Land Type	Rating, Soil ID - or - Actual Frontage	Acreage - or - Effective Frontage	Square Feet - or - Effective Depth	Influence Factor

Physical Characteristics

Tax ID 39-065B-0016B Printed 03/09/2022

01
CELL TOWER

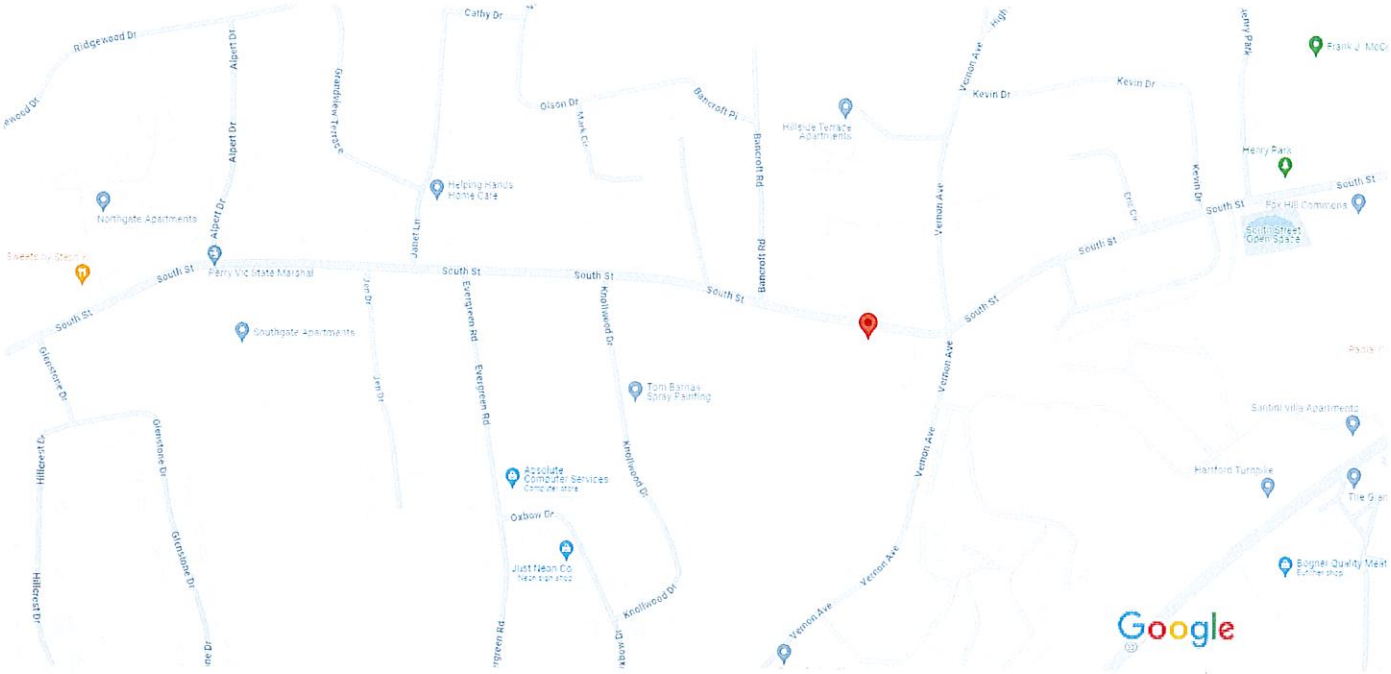
Special Features

Description

Summary of Improvements

ID	USE	Story Height	Const Type	Grade	Year Cons	Eff Year	Cond	Size or Area
01	TOWERSUP	0.00		Avg	2010	2010	AV	650

Google Maps 197 South St



Map data ©2024 Google 200 ft

197 South St

Directions Save Nearby Send to phone Share

197 South St, Vernon, CT 06066

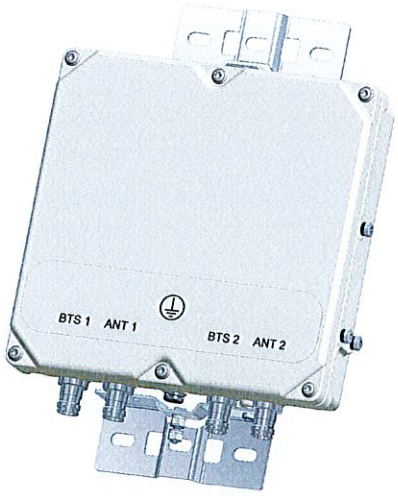
VG4X+3M Vernon, Connecticut

Photos

BSF0020F3V1-1

TWIN BANDSTOP 900MHZ INTERFERENCE MITIGATION FILTER

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



FEATURES

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

TECHNICAL SPECIFICATIONS

BAND NAME	700 PATH / 850 UPLINK PATH	850 DOWNLINK PATH
Passband	698 - 849MHz	869 - 891.5MHz
Insertion loss	0.1dB typical / 0.3dB maximum	0.5dB typical, 1.45dB maximum
Return loss	24dB typical, 18dB minimum	
Maximum input power (Per Port)	100W average	200W average and 66W per 5MHz
Rejection	53dB minimum @ 894.1 - 896.5MHz	

ELECTRICAL	
Impedance	50Ohms
Intermodulation products	-160dBc maximum in UL Band (assuming 20MHz Signal), with 2 x 43dBm carriers -153dBc maximum with 2 x 43dBm

DC / AISG	
Passband	0 - 13MHz
Insertion loss	0.3dB maximum
Return loss	15dB minimum
Input voltage range	± 33V
DC current rating	2A continuous, 4A peak
Compliance	3GPP TS 25.461

ENVIRONMENTAL	
For further details of environmental compliance, please contact Kaelus.	
Temperature range	-20°C to +60°C | -4°F to +140°F
Ingress protection	IP67
Altitude	2600m | 8530ft
Lightning protection	RF port: ±5kA maximum (8/20us), IEC 61000-4-5 – Unit must be terminated with some lightning protection circuits.
MTBF	>1,000,000 hours
Compliance	ETSI EN 300 019 class 4.1H, RoHS, NEBS GR-487-CORE

MECHANICAL	
Dimensions H x D x W	269 x 277 x 80mm | 10.60 x 10.90 x 3.15in (Excluding brackets and connectors)
Weight	8.0 kg | 17.6 lbs (no bracket)
Finish	Powder coated, light grey (RAL7035)
Connectors	RF: 4.3-10 (F) x 4
Mounting	Optional pole/wall bracket supplied with two metal clamps 45-178mm diameter poles or custom bracket. See ordering information.

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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)

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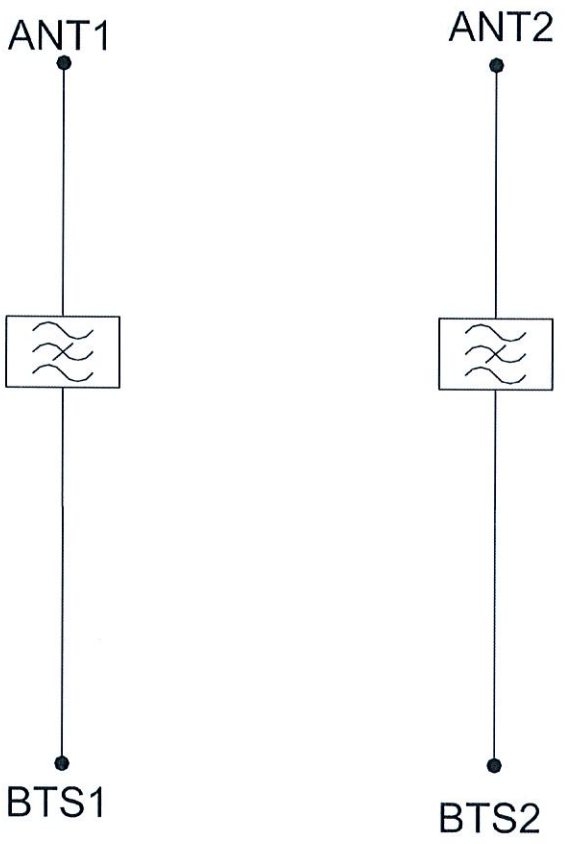
ELECTRICAL BLOCK DIAGRAM



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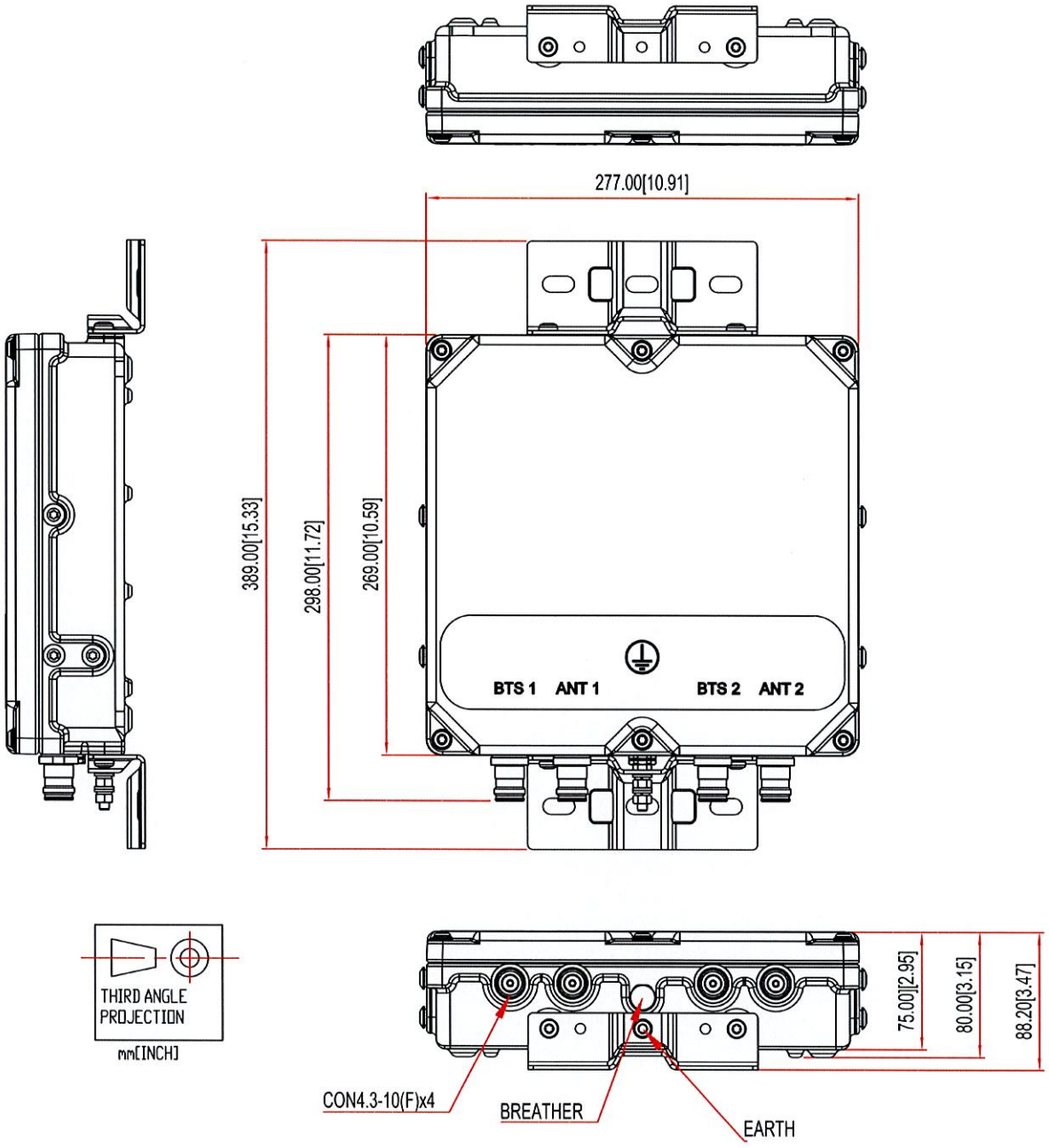
Contact Us: +1 303 768 8080 | +61 (0) 7 3907 1200 | www.kaelus.com

MECHANICAL BLOCK DIAGRAM



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From: Barbadora, Jeff
To: Tatasciore, Domenica
Subject: FW: FedEx Shipment 776171530061: Your package has been delivered
Date: Thursday, May 2, 2024 12:21:00 AM

Thanks,

Jeffrey Barbadora
Permitting Specialist
781-970-0053

Crown Castle
1800 W. Park Drive, Suite 250
Westborough, MA 01581

From: TrackingUpdates@fedex.com <TrackingUpdates@fedex.com>
Sent: Wednesday, May 1, 2024 9:40 AM
To: Barbadora, Jeff <jeff.barbadora@crowncastle.com>
Subject: FedEx Shipment 776171530061: Your package has been delivered

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

Hi. Your package was delivered Wed, 05/01/2024 at 9:33am.

Delivered to 14 PARK PLACE, VERNON, CT 06066

OBTAIN PROOF OF DELIVERY

How was your delivery ?

TRACKING NUMBER	776171530061
FROM	Crown Castle 1800 W. Park Drive WESTBOROUGH, MA, US, 01581
TO	Town of Vernon Daniel Champagne, Mayor 14 Park Place VERNON, CT, US, 06066
REFERENCE	799001.7680
SHIPPER REFERENCE	799001.7680
SHIP DATE	Tue 4/30/2024 06:09 PM
PACKAGING TYPE	FedEx Envelope
ORIGIN	WESTBOROUGH, MA, US, 01581
DESTINATION	VERNON, CT, US, 06066
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	0.50 LB
SERVICE TYPE	FedEx Standard Overnight

Absolutely, positively committed to you

FedEx

Every delivery deserves extra care. Even if it means one of our drivers takes on the role of ringbearer for a customer's wedding. We'll work to make your next delivery special too.

WATCH FEDEX IN ACTION

FOLLOW FEDEX

Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at approximately 8:39 AM CDT 05/01/2024.

All weights are estimated.

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

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

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Thank you for your business.

From: Barbadora, Jeff
To: Tatasciore, Domenica
Subject: FW: FedEx Shipment 776171555180: Your package has been delivered
Date: Thursday, May 2, 2024 12:20:00 AM

Thanks,

Jeffrey Barbadora
Permitting Specialist
781-970-0053

Crown Castle
1800 W. Park Drive, Suite 250
Westborough, MA 01581

From: TrackingUpdates@fedex.com <TrackingUpdates@fedex.com>
Sent: Wednesday, May 1, 2024 9:40 AM
To: Barbadora, Jeff <jeff.barbadora@crowncastle.com>
Subject: FedEx Shipment 776171555180: Your package has been delivered

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

Hi. Your package was delivered Wed, 05/01/2024 at 9:33am.

Delivered to 14 PARK PLACE, VERNON, CT 06066

OBTAIN PROOF OF DELIVERY

How was your delivery ?

TRACKING NUMBER	776171555180
FROM	Crown Castle 1800 W. Park Drive WESTBOROUGH, MA, US, 01581
TO	Town of Vernon Ashley Stephens, Town Planner 14 Park Place VERNON, CT, US, 06066
REFERENCE	799001.7680
SHIPPER REFERENCE	799001.7680
SHIP DATE	Tue 4/30/2024 06:09 PM
PACKAGING TYPE	FedEx Envelope
ORIGIN	WESTBOROUGH, MA, US, 01581
DESTINATION	VERNON, CT, US, 06066
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	0.50 LB
SERVICE TYPE	FedEx Standard Overnight

Absolutely, positively committed to you

FedEx

Every delivery deserves extra care. Even if it means one of our drivers takes on the role of ringbearer for a customer's wedding. We'll work to make your next delivery special too.

WATCH FEDEX IN ACTION

FOLLOW FEDEX

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Thank you for your business.

Colliers Engineering & Design CT, P.C.
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 #: 10206816
Colliers Engineering & Design CT, P.C. Project #: 23777118

July 11, 2023

Site Information	*Site ID:*	*5000247666-VZW / VERNON CT*
	Site Name:	*VERNON CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*85 South Street* *Vernon Rockville, Connecticut 06066* *Tolland County*
	Latitude:	*41.853431°*
	Longitude:	*-72.452029°*
Structure Information	*Tower Type:*	*150-Ft Self Support*
	Mount Type:	*15.50-Ft Sector Frame*

FUZE ID # 17123896

Analysis Results

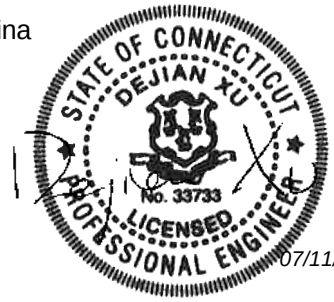
Sector Frame: **51.7% Pass***

***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: Gianna Argentina



07/11/2023

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: 325016, dated April 2, 2021*
Mount Mapping Report	*Hudson Design Group, LLC, Site ID: 469068 dated March 30, 2021*
Passing PMI Report	*Network Building + Consulting, LLC, Project #: 100520, dated May 23, 2022*
PMI Photos	*Photos dated March 10, 2022*
Filter Add Guidance	*Provided by Verizon Wireless*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H Connecticut State Building Code, 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:	1.50 in
	Risk Category:	II
	Exposure Category:	B
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	0.977
Seismic Parameters:	S_S:	0.186 g
	S_1:	0.055 g
Maintenance Parameters:	Wind Speed (3-sec. Gust):	30 mph
	Maintenance Load, Lv:	250 lbs.
	Maintenance Load, Lm:	500 lbs.
Analysis Software:	RISA-3D (V17)	

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
113.58	112.00	3	Samsung	CBRS RRH - RT4401-48A	Retained
	114.00	2	Andrew	LBX-6515DS	
		1	Andrew	LNX-6514DS	
		6	Andrew	SBNHH-1D65B	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		2	Raycap	RRFDC-3315-PF-48*	
		4	KAelus	BSF0020F3V1-1	Added
	115.50	3	Samsung	MT6407-77A	Retained

* Equipment is flush mounted directly to the self support. They are not mounted on sector frame mounts and are not included in this mount analysis.

It is acceptable to install up to any three (3) of the OVP model numbers listed below as required at any location other than the mount face without affecting the structural capacity of the mount. If OVP units are installed on the mount face, a mount re-analysis may be required unless replacing an existing OVP.

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

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Colliers Engineering & Design CT, P.C. and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Colliers Engineering & Design CT, P.C. to verify deviation will not adversely impact the analysis.

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

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.

5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.

6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Colliers Engineering & Design CT, P.C. is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

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

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

Analysis Results:

Component	Utilization %	Pass/Fail
Face Horizontal	32.9 %	Pass
Mount Pipe	30.6 %	Pass
Pos 2 Mount Pipe	17.2 %	Pass
Standoff	33.7 %	Pass
Standoff Vertical Bracing	8.8 %	Pass
Standoff Diagonal Bracing	29.2 %	Pass
Stabilizer	10.5 %	Pass
Plate	43.2 %	Pass
Mount Connection	51.7 %	Pass

Structure Rating – *(Controlling Utilization of all Components)*	**51.7%**

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	22.0	11.4	31.7	21.0
0.5	32.5	18.2	46.3	32.0
1	42.3	24.4	60.2	42.2

Notes:
- (EPA)a values listed above may be used in the absence of more precise information
- (EPA)a values in the table above include 1 sector.
- Ka factors included in (EPA)a calculations

Requirements:

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

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 #: 5000247666 SMART Project #: 10206816 Fuze Project ID: 17123896

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:

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: 5 2 7666-VZW - VERNON CT

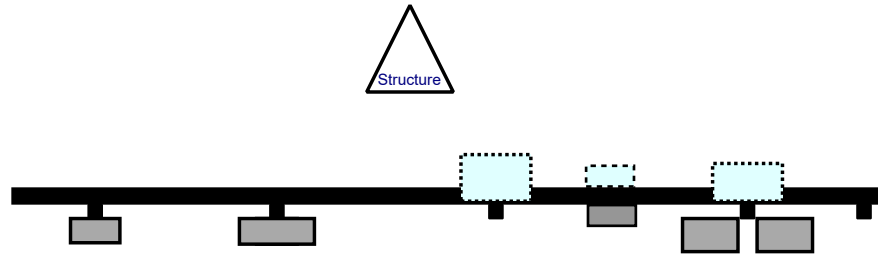
Sector: **A** 7/11/2023

Structure Type: Self Support 10206816

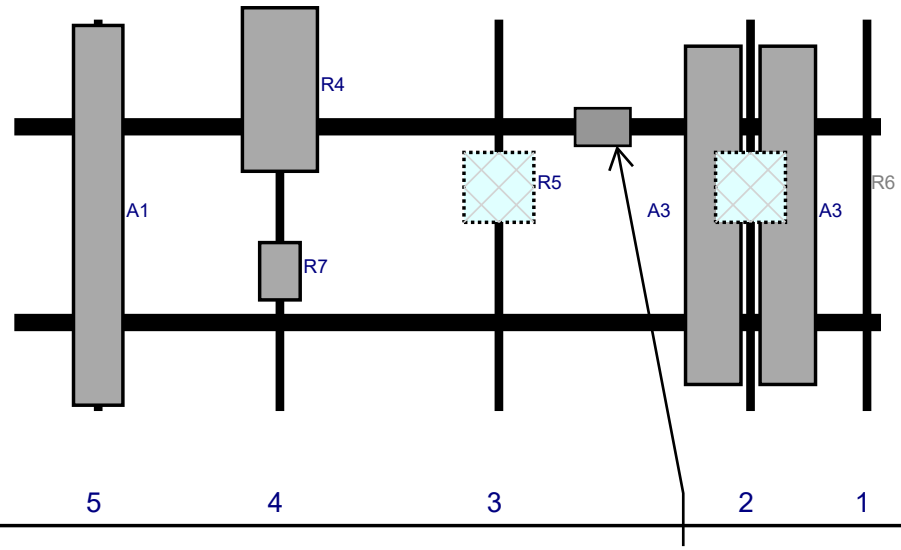
Mount Elev: 113.58 Page: 1

Colliers Engineering & Design

Plan View



Front View - Looking at Structure



PROPOSED DUAL FILTERS BACK TO BACK

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
A3	SBNHH-1D65B	72.6	11.9	158	2	a	Front	42	8	Retained	05/10/2022
A3	SBNHH-1D65B	72.6	11.9	158	2	b	Front	42	-8	Retained	05/10/2022
R6	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	158	2	a	Behind	36	0	Retained	05/10/2022
R5	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	104	3	a	Behind	36	0	Retained	05/10/2022
R4	MT6407-77A	35.1	16.1	57	4	a	Front	15	0	Retained	05/10/2022
R7	CBRS RRH - RT4401-48A	12.3	8.7	57	4	b	Front	54	0	Retained	05/10/2022
A1	LBX-6515DS	81.5	10.6	18	5	a	Front	42	0	Retained	05/10/2022
FH1	BSF0020F3V1-1	10.6	10.9		Member					Added	
FH1	BSF0020F3V1-1	10.6	10.9		Member					Added	

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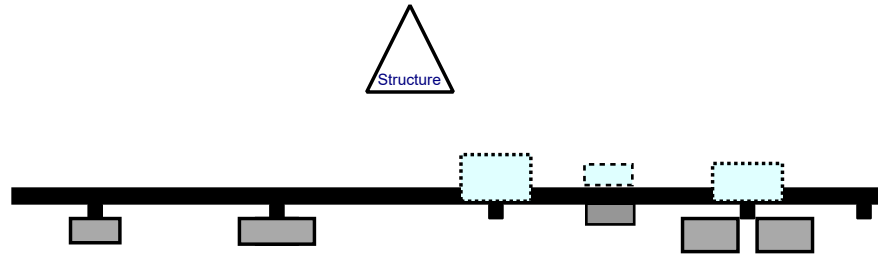
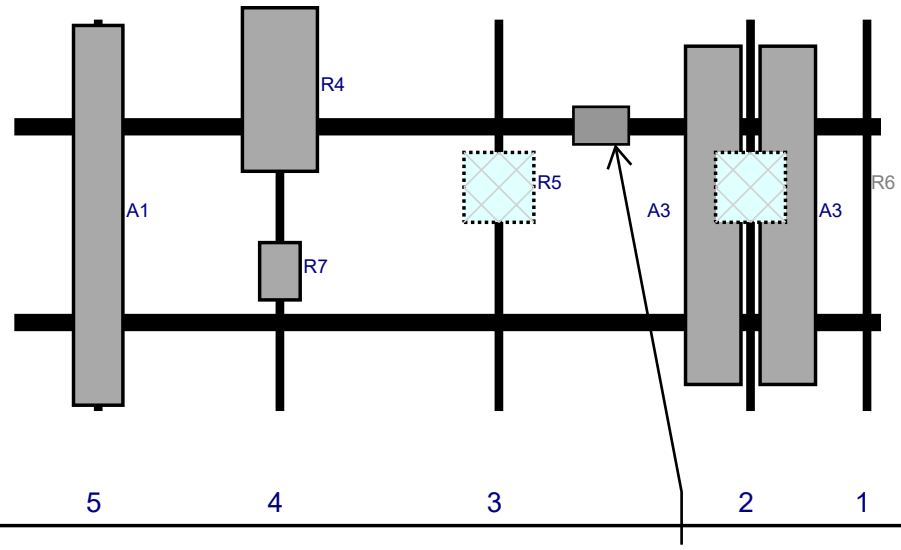
Plan View



Front View - Looking at Structure



PROPOSED DUAL FILTERS BACK TO BACK

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A3	SBNHH-1D65B	72.6	11.9	158	2	b	Front	42	-8	Retained	05/10/2022
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R5	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	104	3	a	Behind	36	0	Retained	05/10/2022
R4	MT6407-77A	35.1	16.1	57	4	a	Front	15	0	Retained	05/10/2022
R7	CBRS RRH - RT4401-48A	12.3	8.7	57	4	b	Front	54	0	Retained	05/10/2022
A1	LBX-6515DS	81.5	10.6	18	5	a	Front	42	0	Retained	05/10/2022
FH1	BSF0020F3V1-1	10.6	10.9		Member					Added	
FH1	BSF0020F3V1-1	10.6	10.9		Member					Added	

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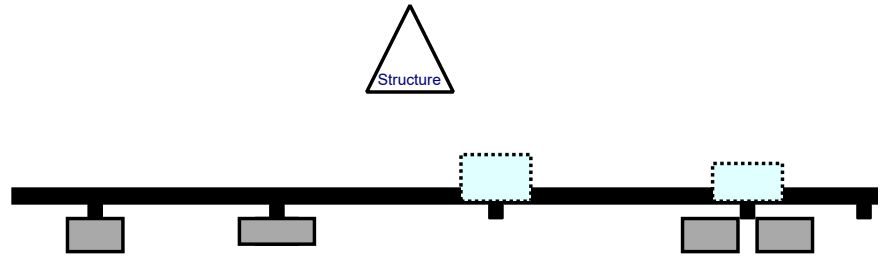
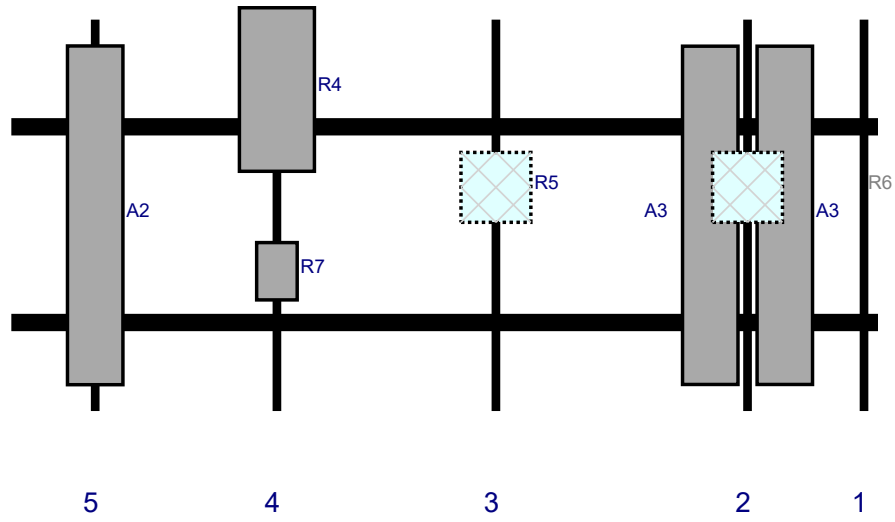
Plan View



Front View - Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
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A3	SBNHH-1D65B	72.6	11.9	158	2	b	Front	42	-8	Retained	05/10/2022
R6	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	158	2	a	Behind	36	0	Retained	05/10/2022
R5	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	104	3	a	Behind	36	0	Retained	05/10/2022
R4	MT6407-77A	35.1	16.1	57	4	a	Front	15	0	Retained	05/10/2022
R7	CBRS RRH - RT4401-48A	12.3	8.7	57	4	b	Front	54	0	Retained	05/10/2022
A2	LNX-6514DS	72.7	11.9	18	5	a	Front	42	0	Retained	05/10/2022

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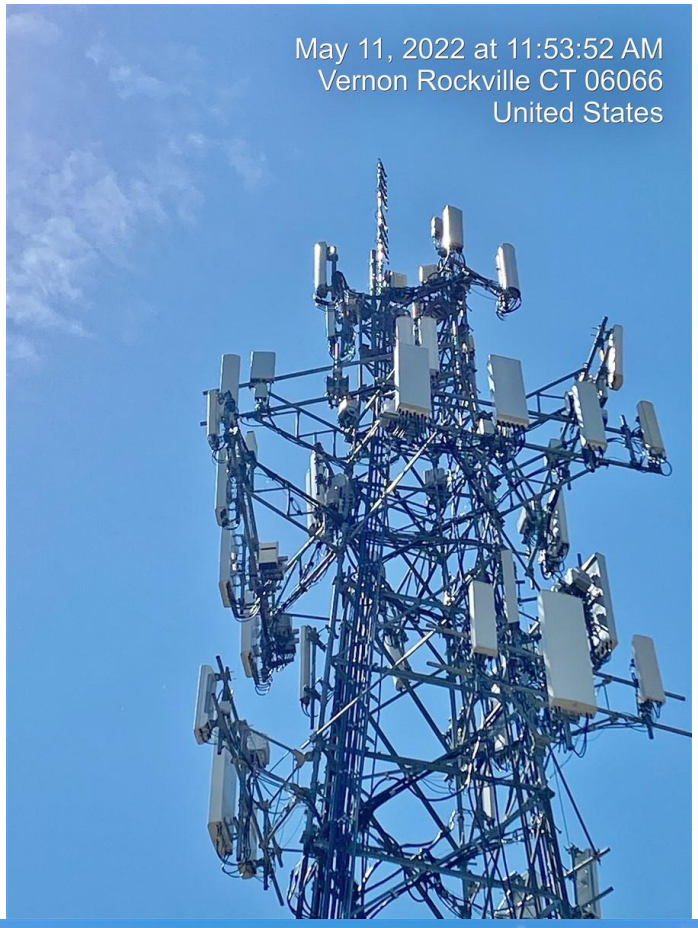
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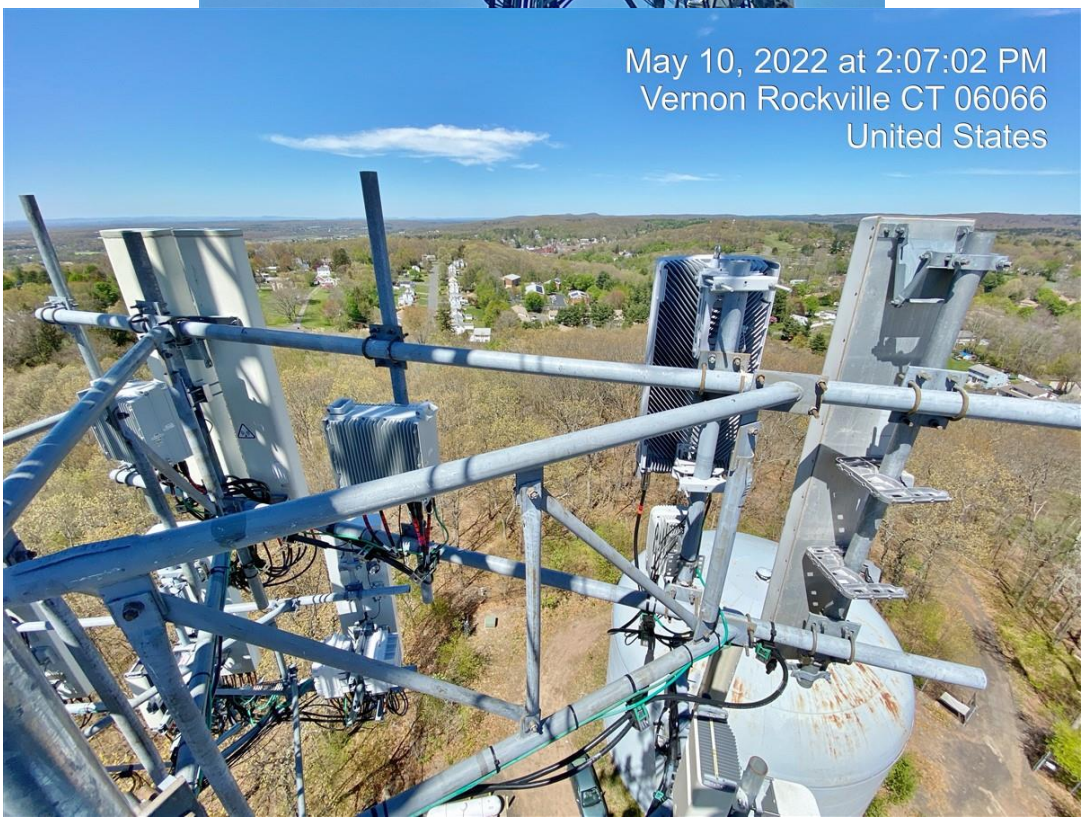
Vernon Rockville CT 06066
United States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Vernon Rockville CT 06066
United States

DocuSign Envelope ID: B1CCD914-46AF-4968-816F-3A8BF00623A8

V3.0 Updated on 8-31-2020

Antenna Mount Mapping Form (PATENT PENDING)

FCC #	

Tower Owner:	CROWN CASTLE	**Mapping Date:**	3/30/2021
Site Name:	VERNON CT	**Tower Type:**	Self Support
Site Number or ID:	469068	**Tower Height (Ft.):**	150
Mapping Contractor:	HUDSON DESIGN GROUP, LLC.	**Mount Elevation (Ft.):**	111.75

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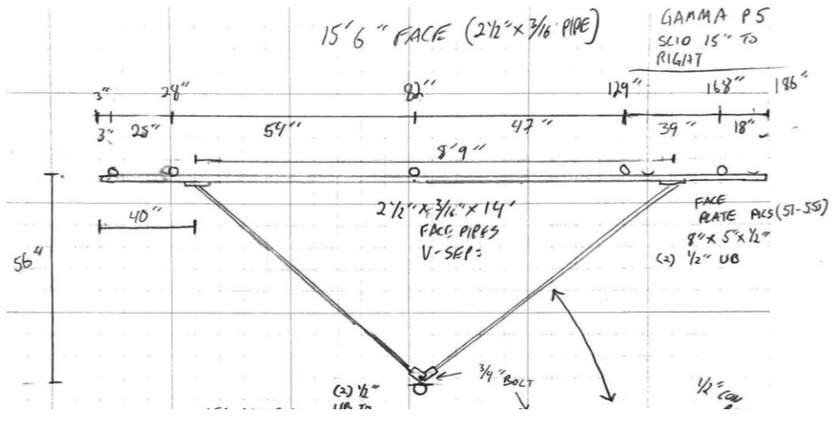

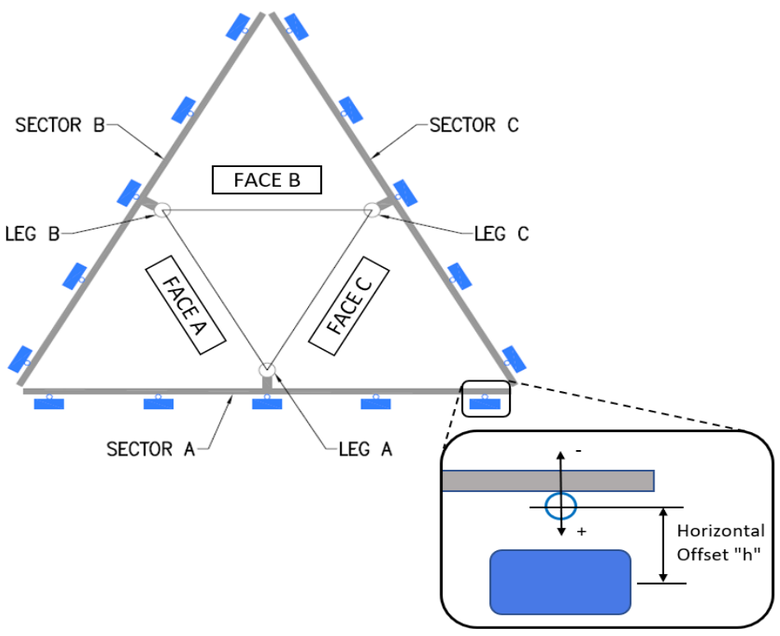

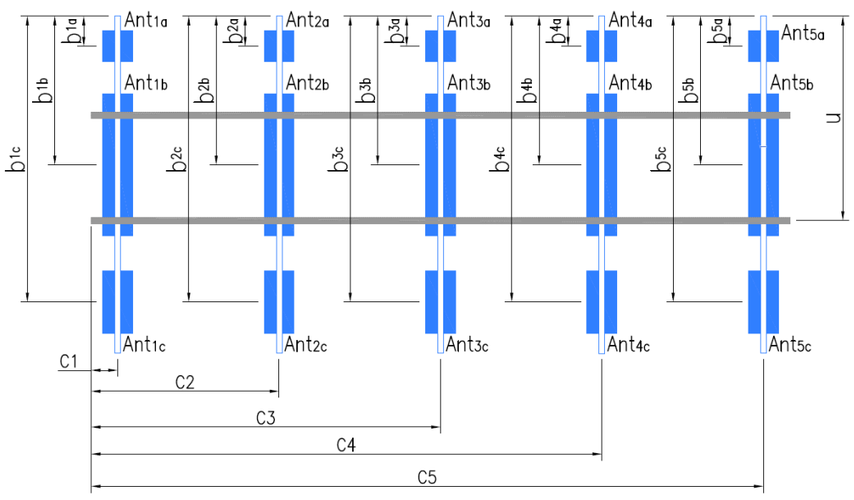

Antenna Layout (Looking Out From Tower)

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" STD. PIPE X84" LONG	65.00	3.00	C1	2" STD. PIPE X84" LONG	65.00	3.00
A2	2" E.H. PIPE X96" LONG	58.00	28.00	C2	2" E.H. PIPE X96" LONG	58.00	28.00
A3	2" STD. PIPE X84" LONG	65.00	82.00	C3	2" STD. PIPE X84" LONG	65.00	82.00
A4	2" STD. PIPE X60" LONG	56.00	129.00	C4	2" STD. PIPE X60" LONG	56.00	129.00
A5	2" STD. PIPE X84" LONG	65.00	168.00	C5	2" STD. PIPE X84" LONG	65.00	183.00
A6				C6			
B1	2" STD. PIPE X84" LONG	65.00	3.00	D1			
B2	2" E.H. PIPE X96" LONG	58.00	28.00	D2			
B3	2" STD. PIPE X84" LONG	65.00	82.00	D3			
B4	2" STD. PIPE X60" LONG	56.00	129.00	D4			
B5	2" STD. PIPE X84" LONG	65.00	168.00	D5			
B6				D6			

Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :	
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :	
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :	2.5

Please enter additional infomation or comments below.

Tower Face Width at Mount Elev. (ft.):	5.8	Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):	2.5

Ants. Items	Enter antenna model. If not labeled, enter "Unknown". Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Mounting Locations [Units are inches and degrees] Vertical Distances"b_{1a}, b_{2a}, b_{3a}, b_{1b}...." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photos of antennas Photo Numbers
Sector A										
Ant_{1a}										
Ant_{1b}										
Ant_{1c}										
Ant_{2a}	B66A RRH 4X25	12.00	7.50	26.00		113.667	35.00	-7.00		7, 60
Ant_{2b}	(2) SBNHH-ID65B	12.00	7.50	73.00		113.625	35.50	10.50	55.00	7, 59
Ant_{2c}										
Ant_{3a}	B13 RRH4X30	12.00	8.00	22.00		113.333	46.00	-7.00		66
Ant_{3b}	QUAD656C0000G	20.50	8.00	74.00		113.417	45.00	11.00	55.00	8, 100
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	B25 RRH 4X30	12.00	8.00	21.00		113.5	35.00	-7.00		8, 67, 100
Ant_{4c}										
Ant_{5a}	AHCA	12.50	8.00	13.50		113.333	46.00	-7.00		11,74,100
Ant_{5b}	UNKNOWN	11.00	5.00	72.00		114.167	36.00	10.50	55.00	11, 100
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower	RRFDC-3315-PF-48	15.00	10.00	28.00						95, 101
Ant on Tower										

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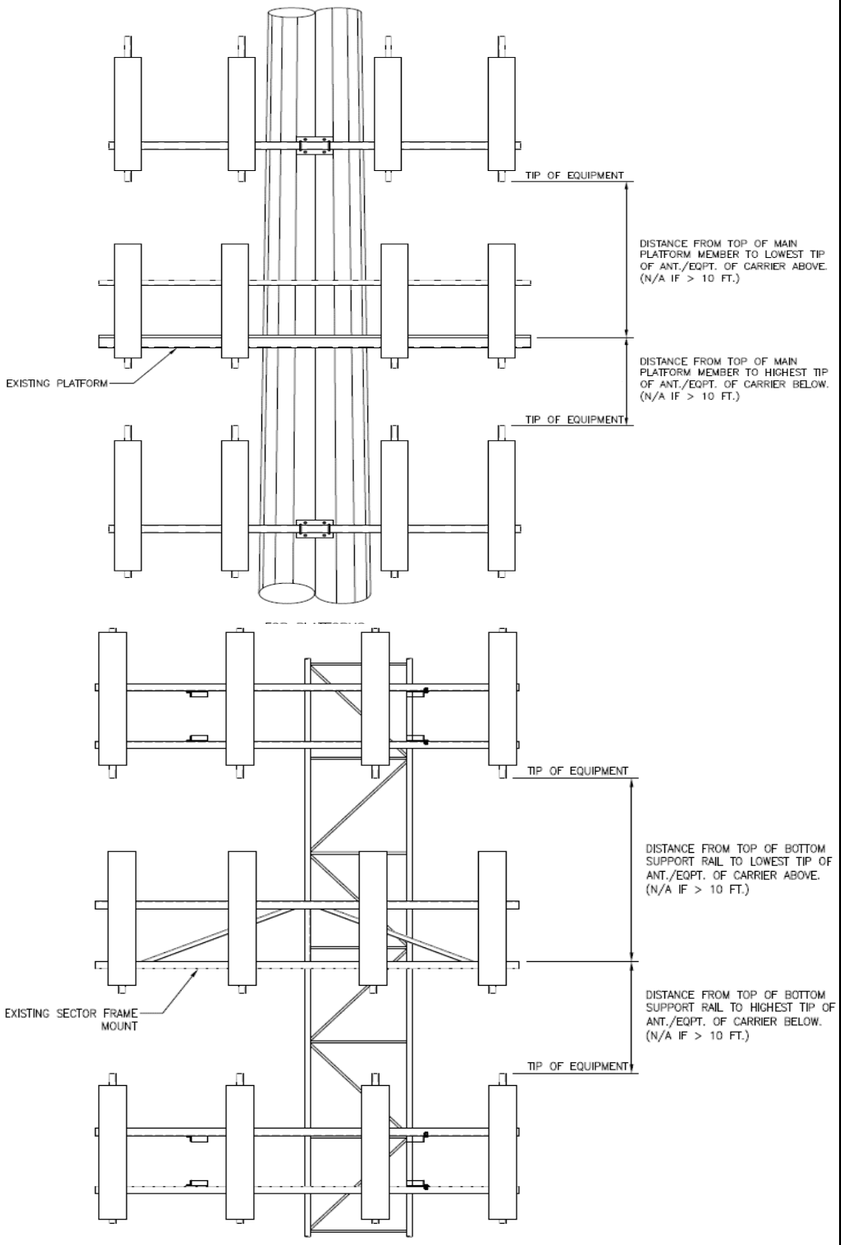
Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector	
Sector A:	55.00	Deg	Leg A:	40.00	Deg
Sector B:	135.00	Deg	Leg B:	160.00	Deg
Sector C:	285.00	Deg	Leg C:	280.00	Deg
Sector D:		Deg	Leg D:		Deg

Climbing Facility Information			
Location:	280.00	Deg	Sector C
Climbing Facility	Corrosion Type:		Good condition.
	Access:		Climbing path was obstructed.
	Condition:		Good condition.



Sector B										
Ant_{1a}										
Ant_{1b}										
Ant_{1c}										
Ant_{2a}	B66A RRH 4X25	12.00	7.50	26.00		113.667	35.00	-7.00		9,101,60
Ant_{2b}	(2) SBNHH-ID65B	12.00	7.50	73.00		113.625	35.50	10.50	120.00	9,59,101
Ant_{2c}										
Ant_{3a}	B13 RRH4X30	12.00	8.00	22.00		113.333	46.00	-7.00		10,102,66
Ant_{3b}	QUAD656C0000G	20.50	8.00	74.00		113.417	45.00	11.00	120.00	10,102,64
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	B25 RRH 4X30	12.00	8.00	21.00		113.5	35.00	-7.00		11,102,67
Ant_{4c}										
Ant_{5a}	AHCA	12.50	8.00	13.50		113.333	46.00	-7.00		11,74,103
Ant_{5b}	UNKNOWN	11.00	5.00	72.00		114.167	36.00	10.50	120.00	11,74,103
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower	RRFDC-3315-PF-48	15.00	10.00	28.00						95, 107
Ant on Tower										

Sector C										
Ant_{1a}										
Ant_{1b}										
Ant_{1c}										
Ant_{2a}	B66A RRH 4X25	12.00	7.50	26.00		113.667	35.00	-7.00		12, 60
Ant_{2b}	(2) SBNHH-ID65B	12.00	7.50	73.00		113.625	35.50	10.50	280.00	13, 59
Ant_{2c}										
Ant_{3a}	B13 RRH4X30	12.00	8.00	22.00		113.333	46.00	-7.00		13, 66
Ant_{3b}	QUAD656C0000G	20.50	8.00	74.00		113.417	45.00	11.00	280.00	13, 63, 64
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	B25 RRH 4X30	12.00	8.00	21.00		113.5	35.00	-7.00		14, 34, 67
Ant_{4c}										
Ant_{5a}	AHCA	12.50	8.00	13.50		113.333	46.00	-7.00		15, 74
Ant_{5b}	UNKNOWN	12.00	7.50	73.00		114.583	31.00	11.50	280.00	15
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 #

DocuSign Envelope ID: B1CCD914-46AF-4968-816F-3A8BF00623A8

1	(12) 7/8" COAX, (2) 1-1/2" HYBRID, (1) 1/2" SUPERFLEX	
2	Antenna and radio touching on GAMMA pos. 5	72
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.

DocuSign Envelope ID: B1CCD914-46AF-4968-816F-3A8BF00623A8

V3.0 Updated on 8-31-2020

Antenna Mount Mapping Form (PATENT PENDING)

FCC #

Tower Owner:	CROWN CASTLE	**Mapping Date:**	3/30/2021
Site Name:	VERNON CT	**Tower Type:**	Self Support
Site Number or ID:	469068	**Tower Height (Ft.):**	150
Mapping Contractor:	HUDSON DESIGN GROUP, LLC.	**Mount Elevation (Ft.):**	111.75

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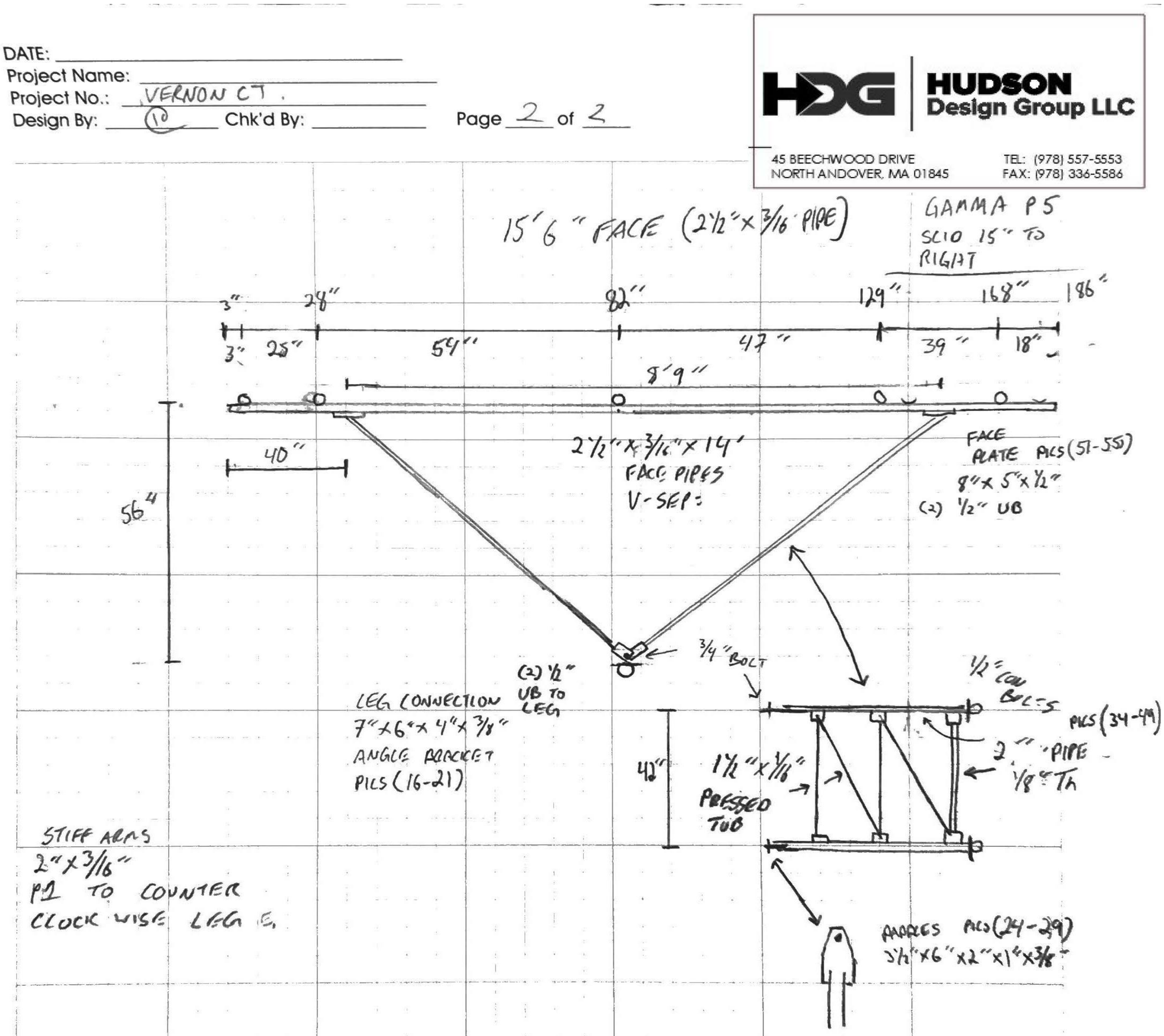
Please Insert Sketches of the Antenna Mount

DATE: _____
Project Name: _____
Project No.: VERNON CT.
Design By: (10) Chk'd By: _____ Page 2 of 2

HDG HUDSON Design Group LLC
45 BEECHWOOD DRIVE
NORTH ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5586



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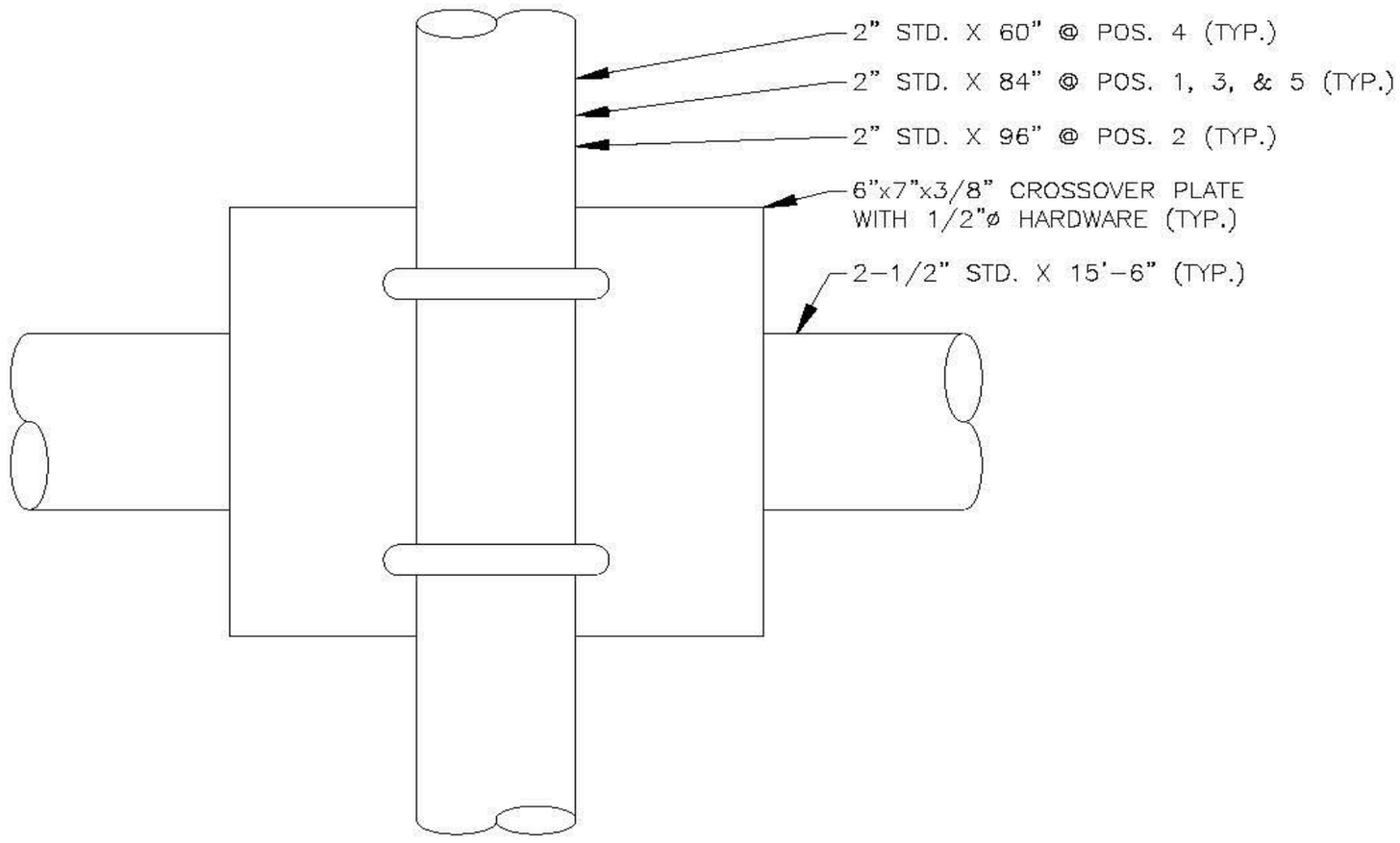
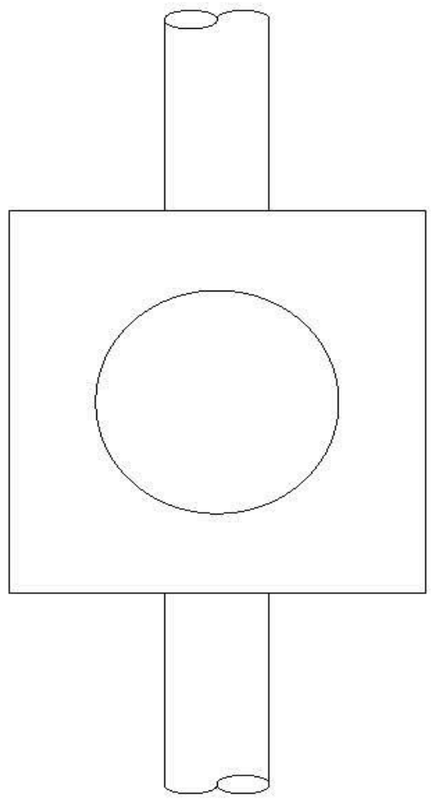
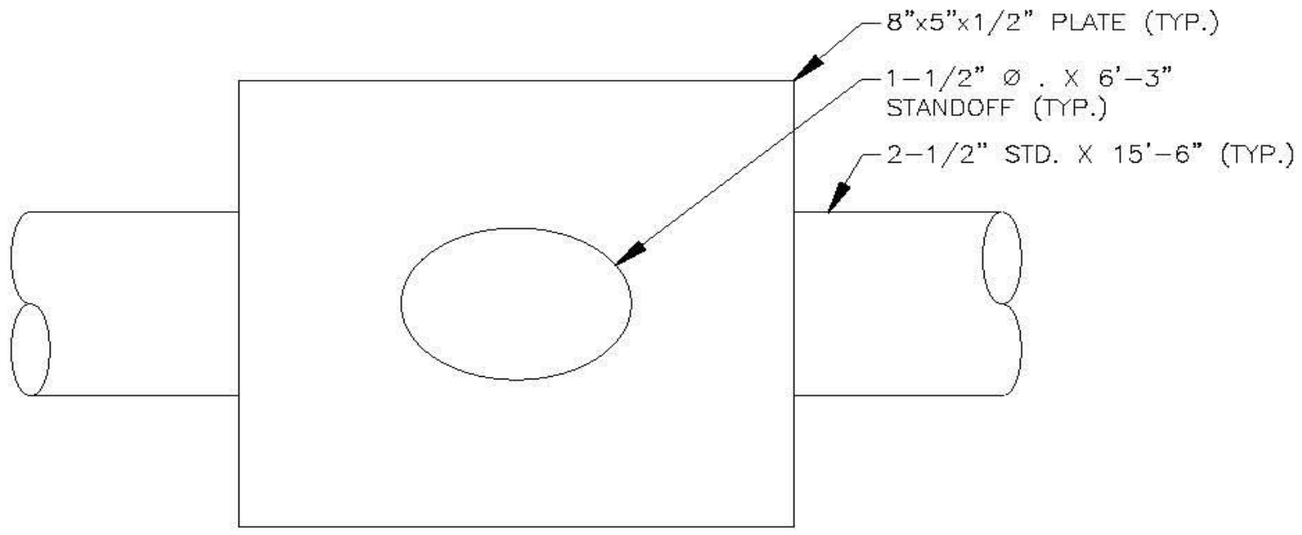
Please Insert Sketches of the Antenna Mount, cont'd



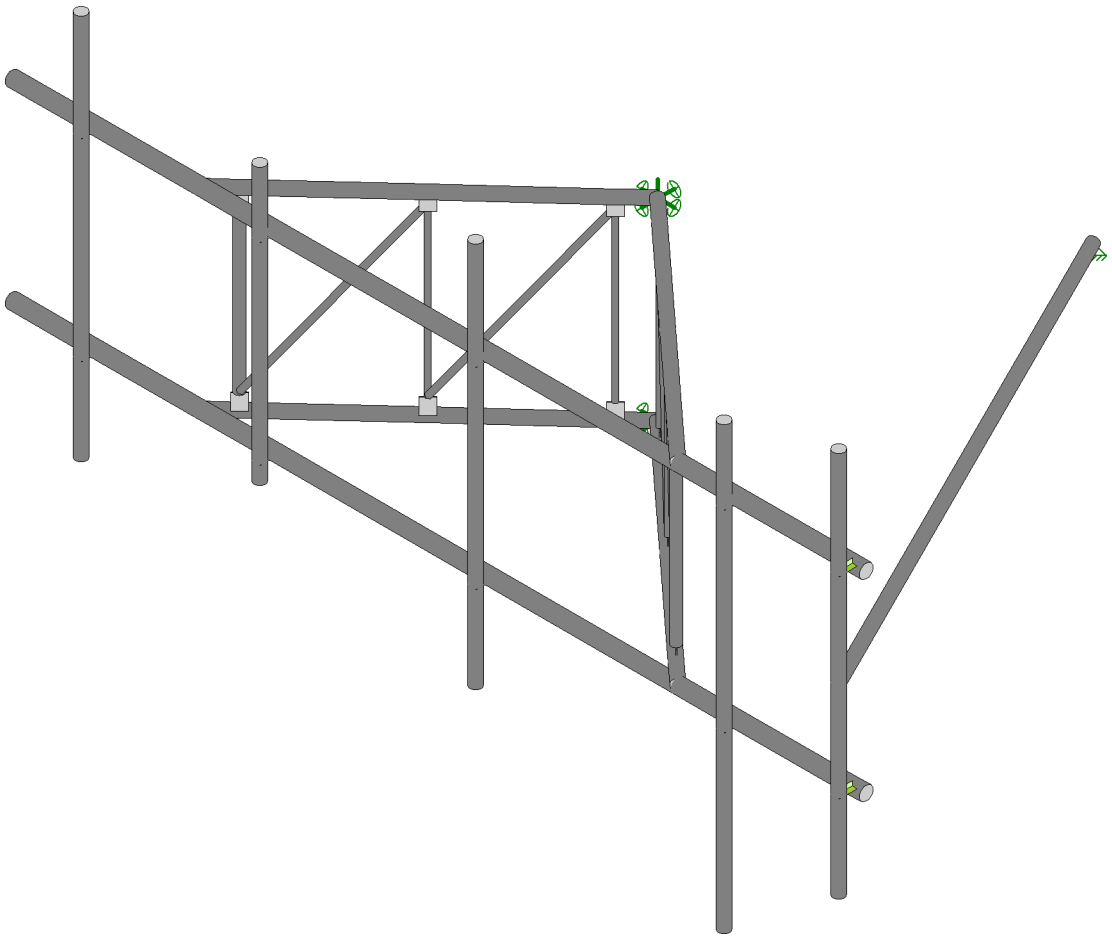
DETAIL C



STIFF ARM MOUNTING PLATE DETAIL



STANDOFF MOUNTING PLATE DETAIL



Envelope Only Solution

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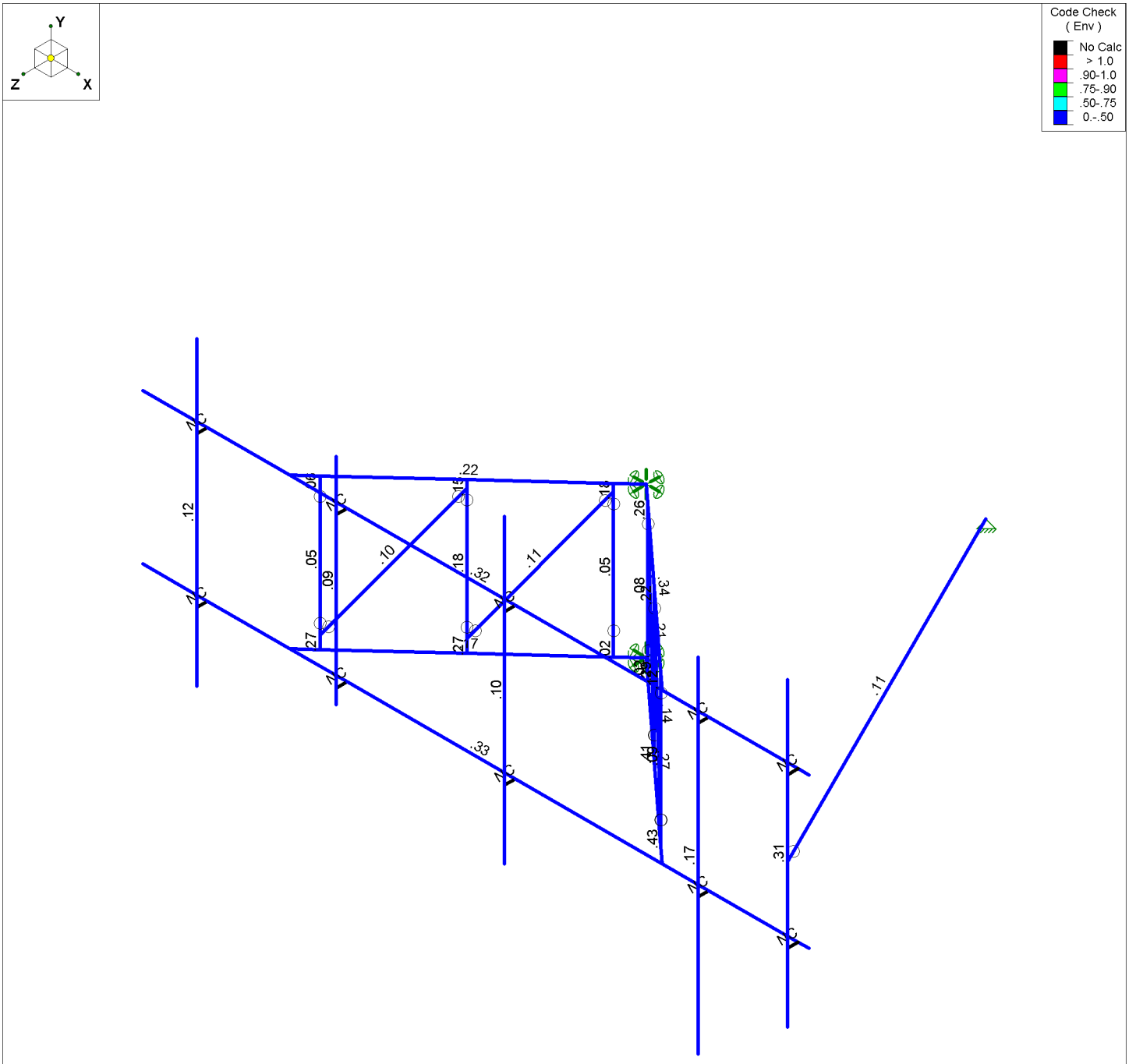

Member Code Checks Displayed (Enveloped)
Envelope Only Solution

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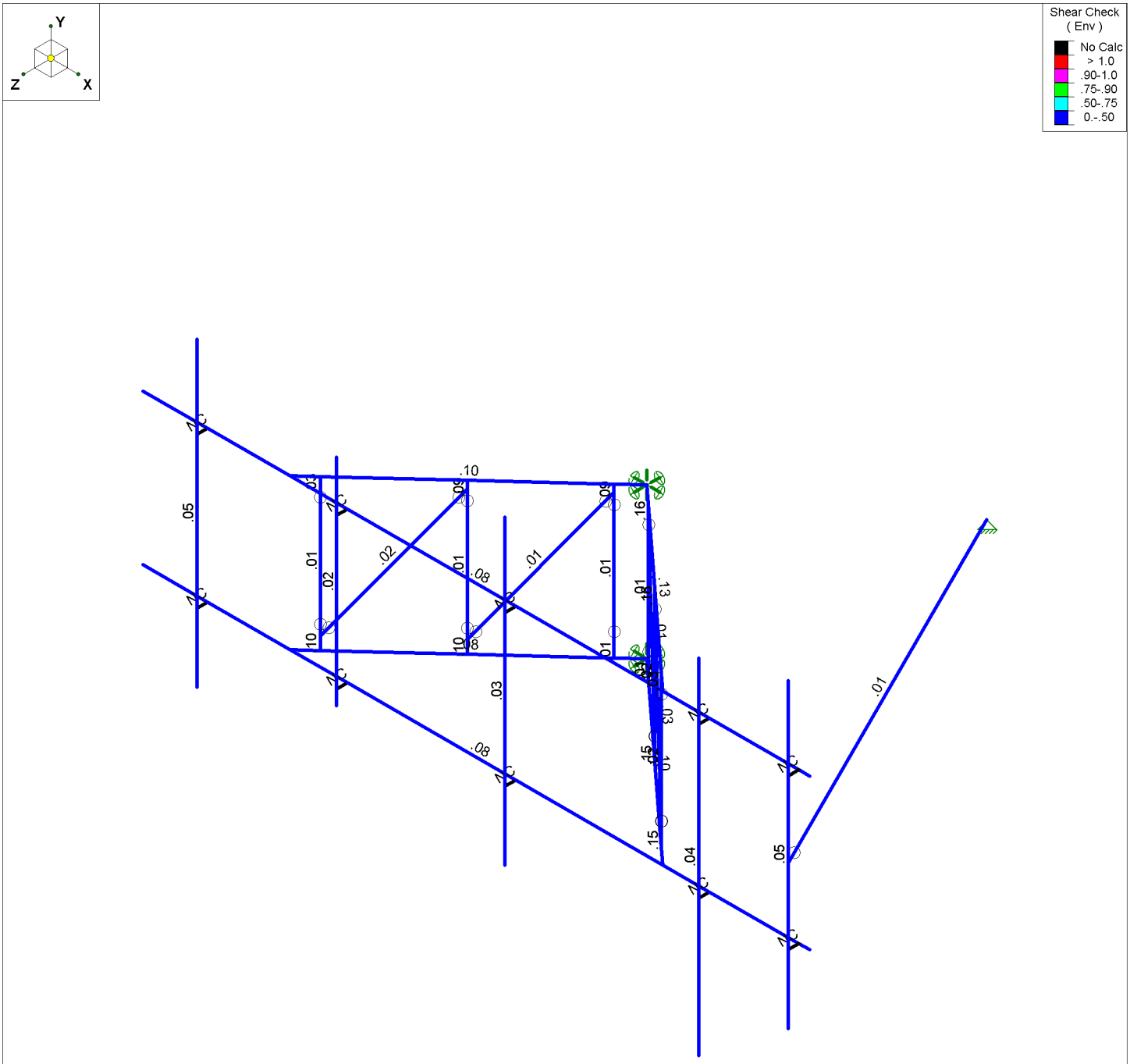

Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

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		July 10, 2023 at 12:17 PM
		5000247666-VZW_MT_LOT_A_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					39			
2	Antenna Di	None					39			
3	Antenna Wo (0 Deg)	None					39			
4	Antenna Wo (30 Deg)	None					39			
5	Antenna Wo (60 Deg)	None					39			
6	Antenna Wo (90 Deg)	None					39			
7	Antenna Wo (120 Deg)	None					39			
8	Antenna Wo (150 Deg)	None					39			
9	Antenna Wo (180 Deg)	None					39			
10	Antenna Wo (210 Deg)	None					39			
11	Antenna Wo (240 Deg)	None					39			
12	Antenna Wo (270 Deg)	None					39			
13	Antenna Wo (300 Deg)	None					39			
14	Antenna Wo (330 Deg)	None					39			
15	Antenna Wi (0 Deg)	None					39			
16	Antenna Wi (30 Deg)	None					39			
17	Antenna Wi (60 Deg)	None					39			
18	Antenna Wi (90 Deg)	None					39			
19	Antenna Wi (120 Deg)	None					39			
20	Antenna Wi (150 Deg)	None					39			
21	Antenna Wi (180 Deg)	None					39			
22	Antenna Wi (210 Deg)	None					39			
23	Antenna Wi (240 Deg)	None					39			
24	Antenna Wi (270 Deg)	None					39			
25	Antenna Wi (300 Deg)	None					39			
26	Antenna Wi (330 Deg)	None					39			
27	Antenna Wm (0 Deg)	None					39			
28	Antenna Wm (30 Deg)	None					39			
29	Antenna Wm (60 Deg)	None					39			
30	Antenna Wm (90 Deg)	None					39			
31	Antenna Wm (120 De...	None					39			
32	Antenna Wm (150 De...	None					39			
33	Antenna Wm (180 De...	None					39			
34	Antenna Wm (210 De...	None					39			
35	Antenna Wm (240 De...	None					39			
36	Antenna Wm (270 De...	None					39			
37	Antenna Wm (300 De...	None					39			
38	Antenna Wm (330 De...	None					39			
39	Structure D	None		-1						
40	Structure Di	None						34		
41	Structure Wo (0 Deg)	None						68		
42	Structure Wo (30 Deg)	None						68		
43	Structure Wo (60 Deg)	None						68		
44	Structure Wo (90 Deg)	None						68		
45	Structure Wo (120 D...	None						68		
46	Structure Wo (150 D...	None						68		
47	Structure Wo (180 D...	None						68		
48	Structure Wo (210 D...	None						68		

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
49	Structure Wo (240 D...	None						68		
50	Structure Wo (270 D...	None						68		
51	Structure Wo (300 D...	None						68		
52	Structure Wo (330 D...	None						68		
53	Structure Wi (0 Deg)	None						68		
54	Structure Wi (30 Deg)	None						68		
55	Structure Wi (60 Deg)	None						68		
56	Structure Wi (90 Deg)	None						68		
57	Structure Wi (120 De...	None						68		
58	Structure Wi (150 De...	None						68		
59	Structure Wi (180 De...	None						68		
60	Structure Wi (210 De...	None						68		
61	Structure Wi (240 De...	None						68		
62	Structure Wi (270 De...	None						68		
63	Structure Wi (300 De...	None						68		
64	Structure Wi (330 De...	None						68		
65	Structure Wm (0 Deg)	None						68		
66	Structure Wm (30 D...	None						68		
67	Structure Wm (60 D...	None						68		
68	Structure Wm (90 D...	None						68		
69	Structure Wm (120 ...	None						68		
70	Structure Wm (150 ...	None						68		
71	Structure Wm (180 ...	None						68		
72	Structure Wm (210 ...	None						68		
73	Structure Wm (240 ...	None						68		
74	Structure Wm (270 ...	None						68		
75	Structure Wm (300 ...	None						68		
76	Structure Wm (330 ...	None						68		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	Antenna Ev	None					39			
82	Antenna Eh (0 Deg)	None					26			
83	Antenna Eh (90 Deg)	None					26			
84	Structure Ev	ELY		-.04						
85	Structure Eh (0 Deg)	ELZ			-.099					
86	Structure Eh (90 Deg)	ELX	.099							

Load Combinations

	Description	SolveP...	SR...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...
1	1.2D+1.0...	Yes	Y	1	1.2	39	1.2	3	1	41	1														
2	1.2D+1.0...	Yes	Y	1	1.2	39	1.2	4	1	42	1														
3	1.2D+1.0...	Yes	Y	1	1.2	39	1.2	5	1	43	1														
4	1.2D+1.0...	Yes	Y	1	1.2	39	1.2	6	1	44	1														
5	1.2D+1.0...	Yes	Y	1	1.2	39	1.2	7	1	45	1														
6	1.2D+1.0...	Yes	Y	1	1.2	39	1.2	8	1	46	1														
7	1.2D+1.0...	Yes	Y	1	1.2	39	1.2	9	1	47	1														
8	1.2D+1.0...	Yes	Y	1	1.2	39	1.2	10	1	48	1														
9	1.2D+1.0...	Yes	Y	1	1.2	39	1.2	11	1	49	1														

Load Combinations (Continued)

	Description	Solve	P...	SR...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...
10	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	12	1	50	1														
11	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	13	1	51	1														
12	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	14	1	52	1														
13	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1										
14	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1										
15	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1										
16	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1										
17	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1										
18	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1										
19	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1										
20	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1										
21	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1										
22	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1										
23	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1										
24	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1										
25	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1												
26	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1												
27	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1												
28	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1												
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						

Load Combinations (Continued)

	Description	Solve	P...	SR...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...
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	-0.735497	-0.083333	13.426774	0	
2	N2	14.764503	-0.083333	13.426774	0	
3	N3	-0.735497	3.416667	13.426774	0	
4	N4	14.764503	3.416667	13.426774	0	
5	N5	7.93117	3.416667	13.426774	0	
6	N6	7.93117	3.416667	13.676774	0	
7	N7	7.93117	-0.083333	13.426774	0	
8	N8	7.93117	-0.083333	13.676774	0	
9	N9	0.764503	3.416667	13.426774	0	
10	N10	0.764503	3.416667	13.676774	0	
11	N11	0.764503	-0.083333	13.426774	0	
12	N12	0.764503	-0.083333	13.676774	0	
13	N13	12.43117	3.416667	13.426774	0	
14	N14	12.43117	3.416667	13.676774	0	
15	N15	12.43117	-0.083333	13.426774	0	
16	N16	12.43117	-0.083333	13.676774	0	
17	N17	14.514503	3.416667	13.426774	0	
18	N18	14.514503	3.416667	13.676774	0	
19	N19	14.514503	-0.083333	13.426774	0	
20	N20	14.514504	-0.083333	13.676774	0	
21	N21	0.764503	5.333333	13.676774	0	
22	N22	0.764503	-1.666667	13.676774	0	
23	N23	7.93117	5.333333	13.676774	0	
24	N24	7.93117	-1.666667	13.676774	0	
25	N25	12.43117	4.75	13.676774	0	
26	N26	12.43117	-3.25	13.676774	0	
27	N27	14.514503	5.333333	13.676774	0	
28	N28	14.514503	-1.666667	13.676774	0	
29	N29	2.68117	3.416667	13.426774	0	
30	N30	7.014503	3.416667	9.459274	0	
31	N31	2.68117	-0.083333	13.426774	0	
32	N32	7.014503	-0.083333	9.459274	0	
33	N33	11.347837	-0.083333	13.426774	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
34	N34	3.049947	3.416667	13.08913	0	
35	N35	4.83237	-0.083333	11.457185	0	
36	N36	6.614793	-0.083333	9.825239	0	
37	N37	11.347837	3.416667	13.426774	0	
38	N38	10.97906	3.416667	13.08913	0	
39	N39	7.414214	-0.083333	9.825239	0	
40	N40	9.196637	3.416667	11.457185	0	
41	N41	9.196637	-0.083333	11.457185	0	
42	N42	6.614793	3.416667	9.825239	0	
43	N43	4.847837	-0.083333	11.443024	0	
44	N44	4.83237	3.416667	11.457185	0	
45	N45	3.049947	-0.083333	13.08913	0	
46	N46	7.414214	3.416667	9.825239	0	
47	N47	9.18117	-0.083333	11.443024	0	
48	N48	9.18117	3.416667	11.443024	0	
49	N49	10.97906	-0.083333	13.08913	0	
50	N53	4.014503	3.416667	13.426774	0	
51	N54	4.014503	3.416667	13.676774	0	
52	N55	4.014503	-0.083333	13.426774	0	
53	N56	4.014503	-0.083333	13.676774	0	
54	N57	4.014503	4.583333	13.676774	0	
55	N58	4.014503	-0.416667	13.676774	0	
56	N59	14.514504	1.666667	13.676774	0	
57	N58A	9.914503	1.666667	4.459274	0	
58	N58B	3.049947	3.125	13.08913	0	
59	N59A	10.97906	3.125	13.08913	0	
60	N60	9.196637	3.125	11.457185	0	
61	N61	6.614793	3.125	9.825239	0	
62	N62	4.83237	3.125	11.457185	0	
63	N63	7.414214	3.125	9.825239	0	
64	N64	3.049947	3.25	13.08913	0	
65	N65	10.97906	3.25	13.08913	0	
66	N66	9.196637	3.25	11.457185	0	
67	N67	6.614793	3.25	9.825239	0	
68	N68	4.83237	3.25	11.457185	0	
69	N69	7.414214	3.25	9.825239	0	
70	N70	3.049947	0.208333	13.08913	0	
71	N71	10.97906	0.208333	13.08913	0	
72	N72	9.196637	0.208333	11.457185	0	
73	N73	6.614793	0.208333	9.825239	0	
74	N74	4.83237	0.208333	11.457185	0	
75	N75	7.414214	0.208333	9.825239	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horizontal	PIPE_2.5	Beam	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
2	Mount Pipe	PIPE_2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
3	Stabilizer	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
4	Standoff	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
5	Standoff Vertical Bra...	PIPE_1.5	Column	Pipe	A53 Gr.B	Typical	.749	.293	.293	.586

Hot Rolled Steel Section Sets (Continued)

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
6	Standoff Diagonal Br...	PIPE_.75	VBrace	Pipe	A53 Gr.B	Typical	.312	.035	.035	.07
7	Pos 2 Mount Pipe	PIPE_2.0X	VBrace	Pipe	A53 Gr.B	Typical	1.4	.827	.827	1.65
8	Plate	PL2.75x1/4	Beam	RECT	A36 Gr.36	Typical	.688	.004	.433	.014
9	TES PLATE	PL1/4x2	Beam	RECT	A36 Gr.36	Typical	.5	.003	.167	.01

Hot Rolled Steel Properties

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	LV	N1	N2			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
2	FH1	N3	N4			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
3	M3	N5	N6			RIGID	None	None	RIGID	Typical
4	M4	N7	N8			RIGID	None	None	RIGID	Typical
5	M5	N9	N10			RIGID	None	None	RIGID	Typical
6	M6	N11	N12			RIGID	None	None	RIGID	Typical
7	M7	N13	N14			RIGID	None	None	RIGID	Typical
8	LM1	N15	N16			RIGID	None	None	RIGID	Typical
9	M9	N17	N18			RIGID	None	None	RIGID	Typical
10	M10	N19	N20			RIGID	None	None	RIGID	Typical
11	MP5A	N21	N22			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
12	MP3A	N23	N24			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
13	MP2A	N25	N26			Pos 2 Mount P...	VBrace	Pipe	A53 Gr.B	Typical
14	MP1A	N27	N28			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
15	SH1	N30	N29			Standoff	Beam	Pipe	A53 Gr.B	Typical
16	SH3	N30	N37			Standoff	Beam	Pipe	A53 Gr.B	Typical
17	SH2	N32	N31			Standoff	Beam	Pipe	A53 Gr.B	Typical
18	SH4	N32	N33			Standoff	Beam	Pipe	A53 Gr.B	Typical
19	V1	N64	N70			Standoff Vertic...	Column	Pipe	A53 Gr.B	Typical
20	V2	N68	N74			Standoff Diago...	VBrace	Pipe	A53 Gr.B	Typical
21	V3	N67	N73			Standoff Diago...	VBrace	Pipe	A53 Gr.B	Typical
22	V6	N65	N71			Standoff Vertic...	Column	Pipe	A53 Gr.B	Typical
23	V4	N69	N75			Standoff Diago...	VBrace	Pipe	A53 Gr.B	Typical
24	V5	N66	N72			Standoff Diago...	VBrace	Pipe	A53 Gr.B	Typical
25	D2	N67	N74			Standoff Diago...	VBrace	Pipe	A53 Gr.B	Typical
26	D1	N68	N70			Standoff Diago...	VBrace	Pipe	A53 Gr.B	Typical
27	D3	N69	N72			Standoff Diago...	VBrace	Pipe	A53 Gr.B	Typical
28	D4	N66	N71			Standoff Diago...	VBrace	Pipe	A53 Gr.B	Typical
29	M31	N53	N54			RIGID	None	None	RIGID	Typical
30	LM2	N55	N56			RIGID	None	None	RIGID	Typical
31	MP4A	N57	N58			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
32	M33	N59	N58A			Stabilizer	Beam	Pipe	A53 Gr.B	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
33	M33A	N34	N58B		315	Plate	Beam	RECT	A36 Gr.36	Typical
34	M34	N44	N62		315	Plate	Beam	RECT	A36 Gr.36	Typical
35	M35	N42	N61		315	Plate	Beam	RECT	A36 Gr.36	Typical
36	M36	N46	N63		45	Plate	Beam	RECT	A36 Gr.36	Typical
37	M37	N40	N60		45	Plate	Beam	RECT	A36 Gr.36	Typical
38	M38	N38	N59A		45	Plate	Beam	RECT	A36 Gr.36	Typical
39	M39	N70	N45		315	Plate	Beam	RECT	A36 Gr.36	Typical
40	M40	N74	N35		315	Plate	Beam	RECT	A36 Gr.36	Typical
41	M41	N73	N36		315	Plate	Beam	RECT	A36 Gr.36	Typical
42	M42	N75	N39		45	Plate	Beam	RECT	A36 Gr.36	Typical
43	M43	N72	N41		45	Plate	Beam	RECT	A36 Gr.36	Typical
44	M44	N71	N49		45	Plate	Beam	RECT	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	LV						Yes				None
2	FH1						Yes				None
3	M3						Yes	** NA **			None
4	M4						Yes	** NA **			None
5	M5						Yes	** NA **			None
6	M6						Yes	** NA **			None
7	M7						Yes	** NA **			None
8	LM1						Yes	** NA **			None
9	M9						Yes	** NA **			None
10	M10						Yes	** NA **			None
11	MP5A						Yes	** NA **			None
12	MP3A						Yes	** NA **			None
13	MP2A						Yes	** NA **			None
14	MP1A						Yes	** NA **			None
15	SH1						Yes				None
16	SH3						Yes				None
17	SH2						Yes				None
18	SH4						Yes				None
19	V1	BenPIN	BenPIN				Yes	** NA **			None
20	V2	BenPIN	BenPIN				Yes	** NA **			None
21	V3	BenPIN	BenPIN				Yes	** NA **			None
22	V6	BenPIN	BenPIN				Yes	** NA **			None
23	V4	BenPIN	BenPIN				Yes	** NA **			None
24	V5	BenPIN	BenPIN				Yes	** NA **			None
25	D2	BenPIN	BenPIN				Yes	** NA **			None
26	D1	BenPIN	BenPIN				Yes	** NA **			None
27	D3	BenPIN	BenPIN				Yes	** NA **			None
28	D4	BenPIN	BenPIN				Yes	** NA **			None
29	M31						Yes	** NA **			None
30	LM2						Yes	** NA **			None
31	MP4A						Yes	** NA **			None
32	M33	OOOOXO					Yes	Default			None
33	M33A						Yes				None
34	M34						Yes				None
35	M35						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...
36	M36						Yes				None
37	M37						Yes				None
38	M38						Yes				None
39	M39						Yes				None
40	M40						Yes				None
41	M41						Yes				None
42	M42						Yes				None
43	M43						Yes				None
44	M44						Yes				None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	Y	-16.55	.5
2	MP5A	My	-.014	.5
3	MP5A	Mz	0	.5
4	MP5A	Y	-16.55	6.5
5	MP5A	My	-.014	6.5
6	MP5A	Mz	0	6.5
7	MP2A	Y	-20	.5
8	MP2A	My	-.018	.5
9	MP2A	Mz	.013	.5
10	MP2A	Y	-20	6.5
11	MP2A	My	-.018	6.5
12	MP2A	Mz	.013	6.5
13	MP2A	Y	-20	.5
14	MP2A	My	-.018	.5
15	MP2A	Mz	-.013	.5
16	MP2A	Y	-20	6.5
17	MP2A	My	-.018	6.5
18	MP2A	Mz	-.013	6.5
19	MP4A	Y	-43.55	.25
20	MP4A	My	-.022	.25
21	MP4A	Mz	0	.25
22	MP4A	Y	-43.55	2.25
23	MP4A	My	-.022	2.25
24	MP4A	Mz	0	2.25
25	MP3A	Y	-84.4	3
26	MP3A	My	.049	3
27	MP3A	Mz	0	3
28	MP2A	Y	-70.3	3
29	MP2A	My	.041	3
30	MP2A	Mz	0	3
31	MP4A	Y	-18.7	4.5
32	MP4A	My	-.009	4.5
33	MP4A	Mz	0	4.5
34	FH1	Y	-17.6	10
35	FH1	My	0	10
36	FH1	Mz	0	10
37	FH1	Y	-17.6	10
38	FH1	My	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
39	FH1	Mz	0	10

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	Y	-88.639	.5
2	MP5A	My	-.078	.5
3	MP5A	Mz	0	.5
4	MP5A	Y	-88.639	6.5
5	MP5A	My	-.078	6.5
6	MP5A	Mz	0	6.5
7	MP2A	Y	-94.471	.5
8	MP2A	My	-.083	.5
9	MP2A	Mz	.063	.5
10	MP2A	Y	-94.471	6.5
11	MP2A	My	-.083	6.5
12	MP2A	Mz	.063	6.5
13	MP2A	Y	-94.471	.5
14	MP2A	My	-.083	.5
15	MP2A	Mz	-.063	.5
16	MP2A	Y	-94.471	6.5
17	MP2A	My	-.083	6.5
18	MP2A	Mz	-.063	6.5
19	MP4A	Y	-55.33	.25
20	MP4A	My	-.028	.25
21	MP4A	Mz	0	.25
22	MP4A	Y	-55.33	2.25
23	MP4A	My	-.028	2.25
24	MP4A	Mz	0	2.25
25	MP3A	Y	-70.293	3
26	MP3A	My	.041	3
27	MP3A	Mz	0	3
28	MP2A	Y	-63.452	3
29	MP2A	My	.037	3
30	MP2A	Mz	0	3
31	MP4A	Y	-32.986	4.5
32	MP4A	My	-.016	4.5
33	MP4A	Mz	0	4.5
34	FH1	Y	-28.25	10
35	FH1	My	0	10
36	FH1	Mz	0	10
37	FH1	Y	-28.25	10
38	FH1	My	0	10
39	FH1	Mz	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	0	.5
2	MP5A	Z	-135.046	.5
3	MP5A	Mx	0	.5
4	MP5A	X	0	6.5
5	MP5A	Z	-135.046	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
6	MP5A	Mx	0	6.5
7	MP2A	X	0	.5
8	MP2A	Z	-87.336	.5
9	MP2A	Mx	-.058	.5
10	MP2A	X	0	6.5
11	MP2A	Z	-87.336	6.5
12	MP2A	Mx	-.058	6.5
13	MP2A	X	0	.5
14	MP2A	Z	-87.336	.5
15	MP2A	Mx	.058	.5
16	MP2A	X	0	6.5
17	MP2A	Z	-87.336	6.5
18	MP2A	Mx	.058	6.5
19	MP4A	X	0	.25
20	MP4A	Z	-62.134	.25
21	MP4A	Mx	0	.25
22	MP4A	X	0	2.25
23	MP4A	Z	-62.134	2.25
24	MP4A	Mx	0	2.25
25	MP3A	X	0	3
26	MP3A	Z	-49.137	3
27	MP3A	Mx	0	3
28	MP2A	X	0	3
29	MP2A	Z	-49.137	3
30	MP2A	Mx	0	3
31	MP4A	X	0	4.5
32	MP4A	Z	-22.825	4.5
33	MP4A	Mx	0	4.5
34	FH1	X	0	10
35	FH1	Z	-29.794	10
36	FH1	Mx	0	10
37	FH1	X	0	10
38	FH1	Z	-29.794	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	60.492	.5
2	MP5A	Z	-104.775	.5
3	MP5A	Mx	-.053	.5
4	MP5A	X	60.492	6.5
5	MP5A	Z	-104.775	6.5
6	MP5A	Mx	-.053	6.5
7	MP2A	X	37.447	.5
8	MP2A	Z	-64.86	.5
9	MP2A	Mx	-.076	.5
10	MP2A	X	37.447	6.5
11	MP2A	Z	-64.86	6.5
12	MP2A	Mx	-.076	6.5
13	MP2A	X	37.447	.5
14	MP2A	Z	-64.86	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP2A	Mx	.01	.5
16	MP2A	X	37.447	6.5
17	MP2A	Z	-64.86	6.5
18	MP2A	Mx	.01	6.5
19	MP4A	X	25.975	.25
20	MP4A	Z	-44.99	.25
21	MP4A	Mx	-.013	.25
22	MP4A	X	25.975	2.25
23	MP4A	Z	-44.99	2.25
24	MP4A	Mx	-.013	2.25
25	MP3A	X	22.547	3
26	MP3A	Z	-39.053	3
27	MP3A	Mx	.013	3
28	MP2A	X	21.794	3
29	MP2A	Z	-37.749	3
30	MP2A	Mx	.013	3
31	MP4A	X	9.907	4.5
32	MP4A	Z	-17.159	4.5
33	MP4A	Mx	-.005	4.5
34	FH1	X	10.836	10
35	FH1	Z	-18.769	10
36	FH1	Mx	0	10
37	FH1	X	10.836	10
38	FH1	Z	-18.769	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	80.417	.5
2	MP5A	Z	-46.429	.5
3	MP5A	Mx	-.07	.5
4	MP5A	X	80.417	6.5
5	MP5A	Z	-46.429	6.5
6	MP5A	Mx	-.07	6.5
7	MP2A	X	43.308	.5
8	MP2A	Z	-25.004	.5
9	MP2A	Mx	-.055	.5
10	MP2A	X	43.308	6.5
11	MP2A	Z	-25.004	6.5
12	MP2A	Mx	-.055	6.5
13	MP2A	X	43.308	.5
14	MP2A	Z	-25.004	.5
15	MP2A	Mx	-.021	.5
16	MP2A	X	43.308	6.5
17	MP2A	Z	-25.004	6.5
18	MP2A	Mx	-.021	6.5
19	MP4A	X	27.351	.25
20	MP4A	Z	-15.791	.25
21	MP4A	Mx	-.014	.25
22	MP4A	X	27.351	2.25
23	MP4A	Z	-15.791	2.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
24	MP4A	Mx	-.014	2.25
25	MP3A	X	32.052	3
26	MP3A	Z	-18.505	3
27	MP3A	Mx	.019	3
28	MP2A	X	28.14	3
29	MP2A	Z	-16.247	3
30	MP2A	Mx	.016	3
31	MP4A	X	11.942	4.5
32	MP4A	Z	-6.895	4.5
33	MP4A	Mx	-.006	4.5
34	FH1	X	10.142	10
35	FH1	Z	-5.855	10
36	FH1	Mx	0	10
37	FH1	X	10.142	10
38	FH1	Z	-5.855	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	78.795	.5
2	MP5A	Z	0	.5
3	MP5A	Mx	-.069	.5
4	MP5A	X	78.795	6.5
5	MP5A	Z	0	6.5
6	MP5A	Mx	-.069	6.5
7	MP2A	X	37.566	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	-.033	.5
10	MP2A	X	37.566	6.5
11	MP2A	Z	0	6.5
12	MP2A	Mx	-.033	6.5
13	MP2A	X	37.566	.5
14	MP2A	Z	0	.5
15	MP2A	Mx	-.033	.5
16	MP2A	X	37.566	6.5
17	MP2A	Z	0	6.5
18	MP2A	Mx	-.033	6.5
19	MP4A	X	21.398	.25
20	MP4A	Z	0	.25
21	MP4A	Mx	-.011	.25
22	MP4A	X	21.398	2.25
23	MP4A	Z	0	2.25
24	MP4A	Mx	-.011	2.25
25	MP3A	X	32.969	3
26	MP3A	Z	0	3
27	MP3A	Mx	.019	3
28	MP2A	X	26.946	3
29	MP2A	Z	0	3
30	MP2A	Mx	.016	3
31	MP4A	X	10.778	4.5
32	MP4A	Z	0	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
33	MP4A	Mx	-.005	4.5
34	FH1	X	9.87	10
35	FH1	Z	0	10
36	FH1	Mx	0	10
37	FH1	X	9.87	10
38	FH1	Z	0	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	80.417	.5
2	MP5A	Z	46.429	.5
3	MP5A	Mx	-.07	.5
4	MP5A	X	80.417	6.5
5	MP5A	Z	46.429	6.5
6	MP5A	Mx	-.07	6.5
7	MP2A	X	43.308	.5
8	MP2A	Z	25.004	.5
9	MP2A	Mx	-.021	.5
10	MP2A	X	43.308	6.5
11	MP2A	Z	25.004	6.5
12	MP2A	Mx	-.021	6.5
13	MP2A	X	43.308	.5
14	MP2A	Z	25.004	.5
15	MP2A	Mx	-.055	.5
16	MP2A	X	43.308	6.5
17	MP2A	Z	25.004	6.5
18	MP2A	Mx	-.055	6.5
19	MP4A	X	27.351	.25
20	MP4A	Z	15.791	.25
21	MP4A	Mx	-.014	.25
22	MP4A	X	27.351	2.25
23	MP4A	Z	15.791	2.25
24	MP4A	Mx	-.014	2.25
25	MP3A	X	32.052	3
26	MP3A	Z	18.505	3
27	MP3A	Mx	.019	3
28	MP2A	X	28.14	3
29	MP2A	Z	16.247	3
30	MP2A	Mx	.016	3
31	MP4A	X	11.942	4.5
32	MP4A	Z	6.895	4.5
33	MP4A	Mx	-.006	4.5
34	FH1	X	15.581	10
35	FH1	Z	8.995	10
36	FH1	Mx	0	10
37	FH1	X	15.581	10
38	FH1	Z	8.995	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	60.492	.5
2	MP5A	Z	104.775	.5
3	MP5A	Mx	-.053	.5
4	MP5A	X	60.492	6.5
5	MP5A	Z	104.775	6.5
6	MP5A	Mx	-.053	6.5
7	MP2A	X	37.447	.5
8	MP2A	Z	64.86	.5
9	MP2A	Mx	.01	.5
10	MP2A	X	37.447	6.5
11	MP2A	Z	64.86	6.5
12	MP2A	Mx	.01	6.5
13	MP2A	X	37.447	.5
14	MP2A	Z	64.86	.5
15	MP2A	Mx	-.076	.5
16	MP2A	X	37.447	6.5
17	MP2A	Z	64.86	6.5
18	MP2A	Mx	-.076	6.5
19	MP4A	X	25.975	.25
20	MP4A	Z	44.99	.25
21	MP4A	Mx	-.013	.25
22	MP4A	X	25.975	2.25
23	MP4A	Z	44.99	2.25
24	MP4A	Mx	-.013	2.25
25	MP3A	X	22.547	3
26	MP3A	Z	39.053	3
27	MP3A	Mx	.013	3
28	MP2A	X	21.794	3
29	MP2A	Z	37.749	3
30	MP2A	Mx	.013	3
31	MP4A	X	9.907	4.5
32	MP4A	Z	17.159	4.5
33	MP4A	Mx	-.005	4.5
34	FH1	X	13.976	10
35	FH1	Z	24.208	10
36	FH1	Mx	0	10
37	FH1	X	13.976	10
38	FH1	Z	24.208	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	0	.5
2	MP5A	Z	135.046	.5
3	MP5A	Mx	0	.5
4	MP5A	X	0	6.5
5	MP5A	Z	135.046	6.5
6	MP5A	Mx	0	6.5
7	MP2A	X	0	.5
8	MP2A	Z	87.336	.5
9	MP2A	Mx	.058	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
10	MP2A	X	0	6.5
11	MP2A	Z	87.336	6.5
12	MP2A	Mx	.058	6.5
13	MP2A	X	0	.5
14	MP2A	Z	87.336	.5
15	MP2A	Mx	-.058	.5
16	MP2A	X	0	6.5
17	MP2A	Z	87.336	6.5
18	MP2A	Mx	-.058	6.5
19	MP4A	X	0	.25
20	MP4A	Z	62.134	.25
21	MP4A	Mx	0	.25
22	MP4A	X	0	2.25
23	MP4A	Z	62.134	2.25
24	MP4A	Mx	0	2.25
25	MP3A	X	0	3
26	MP3A	Z	49.137	3
27	MP3A	Mx	0	3
28	MP2A	X	0	3
29	MP2A	Z	49.137	3
30	MP2A	Mx	0	3
31	MP4A	X	0	4.5
32	MP4A	Z	22.825	4.5
33	MP4A	Mx	0	4.5
34	FH1	X	0	10
35	FH1	Z	29.794	10
36	FH1	Mx	0	10
37	FH1	X	0	10
38	FH1	Z	29.794	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-60.492	.5
2	MP5A	Z	104.775	.5
3	MP5A	Mx	.053	.5
4	MP5A	X	-60.492	6.5
5	MP5A	Z	104.775	6.5
6	MP5A	Mx	.053	6.5
7	MP2A	X	-37.447	.5
8	MP2A	Z	64.86	.5
9	MP2A	Mx	.076	.5
10	MP2A	X	-37.447	6.5
11	MP2A	Z	64.86	6.5
12	MP2A	Mx	.076	6.5
13	MP2A	X	-37.447	.5
14	MP2A	Z	64.86	.5
15	MP2A	Mx	-.01	.5
16	MP2A	X	-37.447	6.5
17	MP2A	Z	64.86	6.5
18	MP2A	Mx	-.01	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
19	MP4A	X	-25.975	.25
20	MP4A	Z	44.99	.25
21	MP4A	Mx	.013	.25
22	MP4A	X	-25.975	2.25
23	MP4A	Z	44.99	2.25
24	MP4A	Mx	.013	2.25
25	MP3A	X	-22.547	3
26	MP3A	Z	39.053	3
27	MP3A	Mx	-.013	3
28	MP2A	X	-21.794	3
29	MP2A	Z	37.749	3
30	MP2A	Mx	-.013	3
31	MP4A	X	-9.907	4.5
32	MP4A	Z	17.159	4.5
33	MP4A	Mx	.005	4.5
34	FH1	X	-10.836	10
35	FH1	Z	18.769	10
36	FH1	Mx	0	10
37	FH1	X	-10.836	10
38	FH1	Z	18.769	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-80.417	.5
2	MP5A	Z	46.429	.5
3	MP5A	Mx	.07	.5
4	MP5A	X	-80.417	6.5
5	MP5A	Z	46.429	6.5
6	MP5A	Mx	.07	6.5
7	MP2A	X	-43.308	.5
8	MP2A	Z	25.004	.5
9	MP2A	Mx	.055	.5
10	MP2A	X	-43.308	6.5
11	MP2A	Z	25.004	6.5
12	MP2A	Mx	.055	6.5
13	MP2A	X	-43.308	.5
14	MP2A	Z	25.004	.5
15	MP2A	Mx	.021	.5
16	MP2A	X	-43.308	6.5
17	MP2A	Z	25.004	6.5
18	MP2A	Mx	.021	6.5
19	MP4A	X	-27.351	.25
20	MP4A	Z	15.791	.25
21	MP4A	Mx	.014	.25
22	MP4A	X	-27.351	2.25
23	MP4A	Z	15.791	2.25
24	MP4A	Mx	.014	2.25
25	MP3A	X	-32.052	3
26	MP3A	Z	18.505	3
27	MP3A	Mx	-.019	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
28	MP2A	X	-28.14	3
29	MP2A	Z	16.247	3
30	MP2A	Mx	-.016	3
31	MP4A	X	-11.942	4.5
32	MP4A	Z	6.895	4.5
33	MP4A	Mx	.006	4.5
34	FH1	X	-10.142	10
35	FH1	Z	5.855	10
36	FH1	Mx	0	10
37	FH1	X	-10.142	10
38	FH1	Z	5.855	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-78.795	.5
2	MP5A	Z	0	.5
3	MP5A	Mx	.069	.5
4	MP5A	X	-78.795	6.5
5	MP5A	Z	0	6.5
6	MP5A	Mx	.069	6.5
7	MP2A	X	-37.566	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	.033	.5
10	MP2A	X	-37.566	6.5
11	MP2A	Z	0	6.5
12	MP2A	Mx	.033	6.5
13	MP2A	X	-37.566	.5
14	MP2A	Z	0	.5
15	MP2A	Mx	.033	.5
16	MP2A	X	-37.566	6.5
17	MP2A	Z	0	6.5
18	MP2A	Mx	.033	6.5
19	MP4A	X	-21.398	.25
20	MP4A	Z	0	.25
21	MP4A	Mx	.011	.25
22	MP4A	X	-21.398	2.25
23	MP4A	Z	0	2.25
24	MP4A	Mx	.011	2.25
25	MP3A	X	-32.969	3
26	MP3A	Z	0	3
27	MP3A	Mx	-.019	3
28	MP2A	X	-26.946	3
29	MP2A	Z	0	3
30	MP2A	Mx	-.016	3
31	MP4A	X	-10.778	4.5
32	MP4A	Z	0	4.5
33	MP4A	Mx	.005	4.5
34	FH1	X	-9.87	10
35	FH1	Z	0	10
36	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
37	FH1	X	-9.87	10
38	FH1	Z	0	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-80.417	.5
2	MP5A	Z	-46.429	.5
3	MP5A	Mx	.07	.5
4	MP5A	X	-80.417	6.5
5	MP5A	Z	-46.429	6.5
6	MP5A	Mx	.07	6.5
7	MP2A	X	-43.308	.5
8	MP2A	Z	-25.004	.5
9	MP2A	Mx	.021	.5
10	MP2A	X	-43.308	6.5
11	MP2A	Z	-25.004	6.5
12	MP2A	Mx	.021	6.5
13	MP2A	X	-43.308	.5
14	MP2A	Z	-25.004	.5
15	MP2A	Mx	.055	.5
16	MP2A	X	-43.308	6.5
17	MP2A	Z	-25.004	6.5
18	MP2A	Mx	.055	6.5
19	MP4A	X	-27.351	.25
20	MP4A	Z	-15.791	.25
21	MP4A	Mx	.014	.25
22	MP4A	X	-27.351	2.25
23	MP4A	Z	-15.791	2.25
24	MP4A	Mx	.014	2.25
25	MP3A	X	-32.052	3
26	MP3A	Z	-18.505	3
27	MP3A	Mx	-.019	3
28	MP2A	X	-28.14	3
29	MP2A	Z	-16.247	3
30	MP2A	Mx	-.016	3
31	MP4A	X	-11.942	4.5
32	MP4A	Z	-6.895	4.5
33	MP4A	Mx	.006	4.5
34	FH1	X	-15.581	10
35	FH1	Z	-8.995	10
36	FH1	Mx	0	10
37	FH1	X	-15.581	10
38	FH1	Z	-8.995	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-60.492	.5
2	MP5A	Z	-104.775	.5
3	MP5A	Mx	.053	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP5A	X	-60.492	6.5
5	MP5A	Z	-104.775	6.5
6	MP5A	Mx	.053	6.5
7	MP2A	X	-37.447	.5
8	MP2A	Z	-64.86	.5
9	MP2A	Mx	-.01	.5
10	MP2A	X	-37.447	6.5
11	MP2A	Z	-64.86	6.5
12	MP2A	Mx	-.01	6.5
13	MP2A	X	-37.447	.5
14	MP2A	Z	-64.86	.5
15	MP2A	Mx	.076	.5
16	MP2A	X	-37.447	6.5
17	MP2A	Z	-64.86	6.5
18	MP2A	Mx	.076	6.5
19	MP4A	X	-25.975	.25
20	MP4A	Z	-44.99	.25
21	MP4A	Mx	.013	.25
22	MP4A	X	-25.975	2.25
23	MP4A	Z	-44.99	2.25
24	MP4A	Mx	.013	2.25
25	MP3A	X	-22.547	3
26	MP3A	Z	-39.053	3
27	MP3A	Mx	-.013	3
28	MP2A	X	-21.794	3
29	MP2A	Z	-37.749	3
30	MP2A	Mx	-.013	3
31	MP4A	X	-9.907	4.5
32	MP4A	Z	-17.159	4.5
33	MP4A	Mx	.005	4.5
34	FH1	X	-13.976	10
35	FH1	Z	-24.208	10
36	FH1	Mx	0	10
37	FH1	X	-13.976	10
38	FH1	Z	-24.208	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	0	.5
2	MP5A	Z	-27.261	.5
3	MP5A	Mx	0	.5
4	MP5A	X	0	6.5
5	MP5A	Z	-27.261	6.5
6	MP5A	Mx	0	6.5
7	MP2A	X	0	.5
8	MP2A	Z	-25.934	.5
9	MP2A	Mx	-.017	.5
10	MP2A	X	0	6.5
11	MP2A	Z	-25.934	6.5
12	MP2A	Mx	-.017	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP2A	X	0	.5
14	MP2A	Z	-25.934	.5
15	MP2A	Mx	.017	.5
16	MP2A	X	0	6.5
17	MP2A	Z	-25.934	6.5
18	MP2A	Mx	.017	6.5
19	MP4A	X	0	.25
20	MP4A	Z	-15.443	.25
21	MP4A	Mx	0	.25
22	MP4A	X	0	2.25
23	MP4A	Z	-15.443	2.25
24	MP4A	Mx	0	2.25
25	MP3A	X	0	3
26	MP3A	Z	-13.358	3
27	MP3A	Mx	0	3
28	MP2A	X	0	3
29	MP2A	Z	-13.358	3
30	MP2A	Mx	0	3
31	MP4A	X	0	4.5
32	MP4A	Z	-7.128	4.5
33	MP4A	Mx	0	4.5
34	FH1	X	0	10
35	FH1	Z	-7.43	10
36	FH1	Mx	0	10
37	FH1	X	0	10
38	FH1	Z	-7.43	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	12.369	.5
2	MP5A	Z	-21.424	.5
3	MP5A	Mx	-.011	.5
4	MP5A	X	12.369	6.5
5	MP5A	Z	-21.424	6.5
6	MP5A	Mx	-.011	6.5
7	MP2A	X	12.002	.5
8	MP2A	Z	-20.788	.5
9	MP2A	Mx	-.024	.5
10	MP2A	X	12.002	6.5
11	MP2A	Z	-20.788	6.5
12	MP2A	Mx	-.024	6.5
13	MP2A	X	12.002	.5
14	MP2A	Z	-20.788	.5
15	MP2A	Mx	.003	.5
16	MP2A	X	12.002	6.5
17	MP2A	Z	-20.788	6.5
18	MP2A	Mx	.003	6.5
19	MP4A	X	6.646	.25
20	MP4A	Z	-11.512	.25
21	MP4A	Mx	-.003	.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP4A	X	6.646	2.25
23	MP4A	Z	-11.512	2.25
24	MP4A	Mx	-.003	2.25
25	MP3A	X	6.192	3
26	MP3A	Z	-10.725	3
27	MP3A	Mx	.004	3
28	MP2A	X	6.007	3
29	MP2A	Z	-10.405	3
30	MP2A	Mx	.004	3
31	MP4A	X	3.302	4.5
32	MP4A	Z	-5.719	4.5
33	MP4A	Mx	-.002	4.5
34	FH1	X	2.864	10
35	FH1	Z	-4.961	10
36	FH1	Mx	0	10
37	FH1	X	2.864	10
38	FH1	Z	-4.961	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	17.055	.5
2	MP5A	Z	-9.847	.5
3	MP5A	Mx	-.015	.5
4	MP5A	X	17.055	6.5
5	MP5A	Z	-9.847	6.5
6	MP5A	Mx	-.015	6.5
7	MP2A	X	17.447	.5
8	MP2A	Z	-10.073	.5
9	MP2A	Mx	-.022	.5
10	MP2A	X	17.447	6.5
11	MP2A	Z	-10.073	6.5
12	MP2A	Mx	-.022	6.5
13	MP2A	X	17.447	.5
14	MP2A	Z	-10.073	.5
15	MP2A	Mx	-.009	.5
16	MP2A	X	17.447	6.5
17	MP2A	Z	-10.073	6.5
18	MP2A	Mx	-.009	6.5
19	MP4A	X	7.789	.25
20	MP4A	Z	-4.497	.25
21	MP4A	Mx	-.004	.25
22	MP4A	X	7.789	2.25
23	MP4A	Z	-4.497	2.25
24	MP4A	Mx	-.004	2.25
25	MP3A	X	9.039	3
26	MP3A	Z	-5.218	3
27	MP3A	Mx	.005	3
28	MP2A	X	8.077	3
29	MP2A	Z	-4.663	3
30	MP2A	Mx	.005	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP4A	X	4.811	4.5
32	MP4A	Z	-2.778	4.5
33	MP4A	Mx	-.002	4.5
34	FH1	X	3.153	10
35	FH1	Z	-1.82	10
36	FH1	Mx	0	10
37	FH1	X	3.153	10
38	FH1	Z	-1.82	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	17.171	.5
2	MP5A	Z	0	.5
3	MP5A	Mx	-.015	.5
4	MP5A	X	17.171	6.5
5	MP5A	Z	0	6.5
6	MP5A	Mx	-.015	6.5
7	MP2A	X	18.217	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	-.016	.5
10	MP2A	X	18.217	6.5
11	MP2A	Z	0	6.5
12	MP2A	Mx	-.016	6.5
13	MP2A	X	18.217	.5
14	MP2A	Z	0	.5
15	MP2A	Mx	-.016	.5
16	MP2A	X	18.217	6.5
17	MP2A	Z	0	6.5
18	MP2A	Mx	-.016	6.5
19	MP4A	X	6.844	.25
20	MP4A	Z	0	.25
21	MP4A	Mx	-.003	.25
22	MP4A	X	6.844	2.25
23	MP4A	Z	0	2.25
24	MP4A	Mx	-.003	2.25
25	MP3A	X	9.463	3
26	MP3A	Z	0	3
27	MP3A	Mx	.006	3
28	MP2A	X	7.983	3
29	MP2A	Z	0	3
30	MP2A	Mx	.005	3
31	MP4A	X	5.031	4.5
32	MP4A	Z	0	4.5
33	MP4A	Mx	-.003	4.5
34	FH1	X	3.254	10
35	FH1	Z	0	10
36	FH1	Mx	0	10
37	FH1	X	3.254	10
38	FH1	Z	0	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	17.055	.5
2	MP5A	Z	9.847	.5
3	MP5A	Mx	-.015	.5
4	MP5A	X	17.055	6.5
5	MP5A	Z	9.847	6.5
6	MP5A	Mx	-.015	6.5
7	MP2A	X	17.447	.5
8	MP2A	Z	10.073	.5
9	MP2A	Mx	-.009	.5
10	MP2A	X	17.447	6.5
11	MP2A	Z	10.073	6.5
12	MP2A	Mx	-.009	6.5
13	MP2A	X	17.447	.5
14	MP2A	Z	10.073	.5
15	MP2A	Mx	-.022	.5
16	MP2A	X	17.447	6.5
17	MP2A	Z	10.073	6.5
18	MP2A	Mx	-.022	6.5
19	MP4A	X	7.789	.25
20	MP4A	Z	4.497	.25
21	MP4A	Mx	-.004	.25
22	MP4A	X	7.789	2.25
23	MP4A	Z	4.497	2.25
24	MP4A	Mx	-.004	2.25
25	MP3A	X	9.039	3
26	MP3A	Z	5.218	3
27	MP3A	Mx	.005	3
28	MP2A	X	8.077	3
29	MP2A	Z	4.663	3
30	MP2A	Mx	.005	3
31	MP4A	X	4.811	4.5
32	MP4A	Z	2.778	4.5
33	MP4A	Mx	-.002	4.5
34	FH1	X	4.293	10
35	FH1	Z	2.478	10
36	FH1	Mx	0	10
37	FH1	X	4.293	10
38	FH1	Z	2.478	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	12.369	.5
2	MP5A	Z	21.424	.5
3	MP5A	Mx	-.011	.5
4	MP5A	X	12.369	6.5
5	MP5A	Z	21.424	6.5
6	MP5A	Mx	-.011	6.5
7	MP2A	X	12.002	.5
8	MP2A	Z	20.788	.5
9	MP2A	Mx	.003	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
10	MP2A	X	12.002	6.5
11	MP2A	Z	20.788	6.5
12	MP2A	Mx	.003	6.5
13	MP2A	X	12.002	.5
14	MP2A	Z	20.788	.5
15	MP2A	Mx	-.024	.5
16	MP2A	X	12.002	6.5
17	MP2A	Z	20.788	6.5
18	MP2A	Mx	-.024	6.5
19	MP4A	X	6.646	.25
20	MP4A	Z	11.512	.25
21	MP4A	Mx	-.003	.25
22	MP4A	X	6.646	2.25
23	MP4A	Z	11.512	2.25
24	MP4A	Mx	-.003	2.25
25	MP3A	X	6.192	3
26	MP3A	Z	10.725	3
27	MP3A	Mx	.004	3
28	MP2A	X	6.007	3
29	MP2A	Z	10.405	3
30	MP2A	Mx	.004	3
31	MP4A	X	3.302	4.5
32	MP4A	Z	5.719	4.5
33	MP4A	Mx	-.002	4.5
34	FH1	X	3.522	10
35	FH1	Z	6.101	10
36	FH1	Mx	0	10
37	FH1	X	3.522	10
38	FH1	Z	6.101	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	0	.5
2	MP5A	Z	27.261	.5
3	MP5A	Mx	0	.5
4	MP5A	X	0	6.5
5	MP5A	Z	27.261	6.5
6	MP5A	Mx	0	6.5
7	MP2A	X	0	.5
8	MP2A	Z	25.934	.5
9	MP2A	Mx	.017	.5
10	MP2A	X	0	6.5
11	MP2A	Z	25.934	6.5
12	MP2A	Mx	.017	6.5
13	MP2A	X	0	.5
14	MP2A	Z	25.934	.5
15	MP2A	Mx	-.017	.5
16	MP2A	X	0	6.5
17	MP2A	Z	25.934	6.5
18	MP2A	Mx	-.017	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
19	MP4A	X	0	.25
20	MP4A	Z	15.443	.25
21	MP4A	Mx	0	.25
22	MP4A	X	0	2.25
23	MP4A	Z	15.443	2.25
24	MP4A	Mx	0	2.25
25	MP3A	X	0	3
26	MP3A	Z	13.358	3
27	MP3A	Mx	0	3
28	MP2A	X	0	3
29	MP2A	Z	13.358	3
30	MP2A	Mx	0	3
31	MP4A	X	0	4.5
32	MP4A	Z	7.128	4.5
33	MP4A	Mx	0	4.5
34	FH1	X	0	10
35	FH1	Z	7.43	10
36	FH1	Mx	0	10
37	FH1	X	0	10
38	FH1	Z	7.43	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-12.369	.5
2	MP5A	Z	21.424	.5
3	MP5A	Mx	.011	.5
4	MP5A	X	-12.369	6.5
5	MP5A	Z	21.424	6.5
6	MP5A	Mx	.011	6.5
7	MP2A	X	-12.002	.5
8	MP2A	Z	20.788	.5
9	MP2A	Mx	.024	.5
10	MP2A	X	-12.002	6.5
11	MP2A	Z	20.788	6.5
12	MP2A	Mx	.024	6.5
13	MP2A	X	-12.002	.5
14	MP2A	Z	20.788	.5
15	MP2A	Mx	-.003	.5
16	MP2A	X	-12.002	6.5
17	MP2A	Z	20.788	6.5
18	MP2A	Mx	-.003	6.5
19	MP4A	X	-6.646	.25
20	MP4A	Z	11.512	.25
21	MP4A	Mx	.003	.25
22	MP4A	X	-6.646	2.25
23	MP4A	Z	11.512	2.25
24	MP4A	Mx	.003	2.25
25	MP3A	X	-6.192	3
26	MP3A	Z	10.725	3
27	MP3A	Mx	-.004	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
28	MP2A	X	-6.007	3
29	MP2A	Z	10.405	3
30	MP2A	Mx	-.004	3
31	MP4A	X	-3.302	4.5
32	MP4A	Z	5.719	4.5
33	MP4A	Mx	.002	4.5
34	FH1	X	-2.864	10
35	FH1	Z	4.961	10
36	FH1	Mx	0	10
37	FH1	X	-2.864	10
38	FH1	Z	4.961	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-17.055	.5
2	MP5A	Z	9.847	.5
3	MP5A	Mx	.015	.5
4	MP5A	X	-17.055	6.5
5	MP5A	Z	9.847	6.5
6	MP5A	Mx	.015	6.5
7	MP2A	X	-17.447	.5
8	MP2A	Z	10.073	.5
9	MP2A	Mx	.022	.5
10	MP2A	X	-17.447	6.5
11	MP2A	Z	10.073	6.5
12	MP2A	Mx	.022	6.5
13	MP2A	X	-17.447	.5
14	MP2A	Z	10.073	.5
15	MP2A	Mx	.009	.5
16	MP2A	X	-17.447	6.5
17	MP2A	Z	10.073	6.5
18	MP2A	Mx	.009	6.5
19	MP4A	X	-7.789	.25
20	MP4A	Z	4.497	.25
21	MP4A	Mx	.004	.25
22	MP4A	X	-7.789	2.25
23	MP4A	Z	4.497	2.25
24	MP4A	Mx	.004	2.25
25	MP3A	X	-9.039	3
26	MP3A	Z	5.218	3
27	MP3A	Mx	-.005	3
28	MP2A	X	-8.077	3
29	MP2A	Z	4.663	3
30	MP2A	Mx	-.005	3
31	MP4A	X	-4.811	4.5
32	MP4A	Z	2.778	4.5
33	MP4A	Mx	.002	4.5
34	FH1	X	-3.153	10
35	FH1	Z	1.82	10
36	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
37	FH1	X	-3.153	10
38	FH1	Z	1.82	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-17.171	.5
2	MP5A	Z	0	.5
3	MP5A	Mx	.015	.5
4	MP5A	X	-17.171	6.5
5	MP5A	Z	0	6.5
6	MP5A	Mx	.015	6.5
7	MP2A	X	-18.217	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	.016	.5
10	MP2A	X	-18.217	6.5
11	MP2A	Z	0	6.5
12	MP2A	Mx	.016	6.5
13	MP2A	X	-18.217	.5
14	MP2A	Z	0	.5
15	MP2A	Mx	.016	.5
16	MP2A	X	-18.217	6.5
17	MP2A	Z	0	6.5
18	MP2A	Mx	.016	6.5
19	MP4A	X	-6.844	.25
20	MP4A	Z	0	.25
21	MP4A	Mx	.003	.25
22	MP4A	X	-6.844	2.25
23	MP4A	Z	0	2.25
24	MP4A	Mx	.003	2.25
25	MP3A	X	-9.463	3
26	MP3A	Z	0	3
27	MP3A	Mx	-.006	3
28	MP2A	X	-7.983	3
29	MP2A	Z	0	3
30	MP2A	Mx	-.005	3
31	MP4A	X	-5.031	4.5
32	MP4A	Z	0	4.5
33	MP4A	Mx	.003	4.5
34	FH1	X	-3.254	10
35	FH1	Z	0	10
36	FH1	Mx	0	10
37	FH1	X	-3.254	10
38	FH1	Z	0	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-17.055	.5
2	MP5A	Z	-9.847	.5
3	MP5A	Mx	.015	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP5A	X	-17.055	6.5
5	MP5A	Z	-9.847	6.5
6	MP5A	Mx	.015	6.5
7	MP2A	X	-17.447	.5
8	MP2A	Z	-10.073	.5
9	MP2A	Mx	.009	.5
10	MP2A	X	-17.447	6.5
11	MP2A	Z	-10.073	6.5
12	MP2A	Mx	.009	6.5
13	MP2A	X	-17.447	.5
14	MP2A	Z	-10.073	.5
15	MP2A	Mx	.022	.5
16	MP2A	X	-17.447	6.5
17	MP2A	Z	-10.073	6.5
18	MP2A	Mx	.022	6.5
19	MP4A	X	-7.789	.25
20	MP4A	Z	-4.497	.25
21	MP4A	Mx	.004	.25
22	MP4A	X	-7.789	2.25
23	MP4A	Z	-4.497	2.25
24	MP4A	Mx	.004	2.25
25	MP3A	X	-9.039	3
26	MP3A	Z	-5.218	3
27	MP3A	Mx	-.005	3
28	MP2A	X	-8.077	3
29	MP2A	Z	-4.663	3
30	MP2A	Mx	-.005	3
31	MP4A	X	-4.811	4.5
32	MP4A	Z	-2.778	4.5
33	MP4A	Mx	.002	4.5
34	FH1	X	-4.293	10
35	FH1	Z	-2.478	10
36	FH1	Mx	0	10
37	FH1	X	-4.293	10
38	FH1	Z	-2.478	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-12.369	.5
2	MP5A	Z	-21.424	.5
3	MP5A	Mx	.011	.5
4	MP5A	X	-12.369	6.5
5	MP5A	Z	-21.424	6.5
6	MP5A	Mx	.011	6.5
7	MP2A	X	-12.002	.5
8	MP2A	Z	-20.788	.5
9	MP2A	Mx	-.003	.5
10	MP2A	X	-12.002	6.5
11	MP2A	Z	-20.788	6.5
12	MP2A	Mx	-.003	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP2A	X	-12.002	.5
14	MP2A	Z	-20.788	.5
15	MP2A	Mx	.024	.5
16	MP2A	X	-12.002	6.5
17	MP2A	Z	-20.788	6.5
18	MP2A	Mx	.024	6.5
19	MP4A	X	-6.646	.25
20	MP4A	Z	-11.512	.25
21	MP4A	Mx	.003	.25
22	MP4A	X	-6.646	2.25
23	MP4A	Z	-11.512	2.25
24	MP4A	Mx	.003	2.25
25	MP3A	X	-6.192	3
26	MP3A	Z	-10.725	3
27	MP3A	Mx	-.004	3
28	MP2A	X	-6.007	3
29	MP2A	Z	-10.405	3
30	MP2A	Mx	-.004	3
31	MP4A	X	-3.302	4.5
32	MP4A	Z	-5.719	4.5
33	MP4A	Mx	.002	4.5
34	FH1	X	-3.522	10
35	FH1	Z	-6.101	10
36	FH1	Mx	0	10
37	FH1	X	-3.522	10
38	FH1	Z	-6.101	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	0	.5
2	MP5A	Z	-8.44	.5
3	MP5A	Mx	0	.5
4	MP5A	X	0	6.5
5	MP5A	Z	-8.44	6.5
6	MP5A	Mx	0	6.5
7	MP2A	X	0	.5
8	MP2A	Z	-5.459	.5
9	MP2A	Mx	-.004	.5
10	MP2A	X	0	6.5
11	MP2A	Z	-5.459	6.5
12	MP2A	Mx	-.004	6.5
13	MP2A	X	0	.5
14	MP2A	Z	-5.459	.5
15	MP2A	Mx	.004	.5
16	MP2A	X	0	6.5
17	MP2A	Z	-5.459	6.5
18	MP2A	Mx	.004	6.5
19	MP4A	X	0	.25
20	MP4A	Z	-3.883	.25
21	MP4A	Mx	0	.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP4A	X	0	2.25
23	MP4A	Z	-3.883	2.25
24	MP4A	Mx	0	2.25
25	MP3A	X	0	3
26	MP3A	Z	-3.071	3
27	MP3A	Mx	0	3
28	MP2A	X	0	3
29	MP2A	Z	-3.071	3
30	MP2A	Mx	0	3
31	MP4A	X	0	4.5
32	MP4A	Z	-1.427	4.5
33	MP4A	Mx	0	4.5
34	FH1	X	0	10
35	FH1	Z	-1.862	10
36	FH1	Mx	0	10
37	FH1	X	0	10
38	FH1	Z	-1.862	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	3.781	.5
2	MP5A	Z	-6.548	.5
3	MP5A	Mx	-.003	.5
4	MP5A	X	3.781	6.5
5	MP5A	Z	-6.548	6.5
6	MP5A	Mx	-.003	6.5
7	MP2A	X	2.34	.5
8	MP2A	Z	-4.054	.5
9	MP2A	Mx	-.005	.5
10	MP2A	X	2.34	6.5
11	MP2A	Z	-4.054	6.5
12	MP2A	Mx	-.005	6.5
13	MP2A	X	2.34	.5
14	MP2A	Z	-4.054	.5
15	MP2A	Mx	.000655	.5
16	MP2A	X	2.34	6.5
17	MP2A	Z	-4.054	6.5
18	MP2A	Mx	.000655	6.5
19	MP4A	X	1.623	.25
20	MP4A	Z	-2.812	.25
21	MP4A	Mx	-.000811	.25
22	MP4A	X	1.623	2.25
23	MP4A	Z	-2.812	2.25
24	MP4A	Mx	-.000811	2.25
25	MP3A	X	1.409	3
26	MP3A	Z	-2.441	3
27	MP3A	Mx	.000822	3
28	MP2A	X	1.362	3
29	MP2A	Z	-2.359	3
30	MP2A	Mx	.000795	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP4A	X	.619	4.5
32	MP4A	Z	-1.072	4.5
33	MP4A	Mx	-.00031	4.5
34	FH1	X	.677	10
35	FH1	Z	-1.173	10
36	FH1	Mx	0	10
37	FH1	X	.677	10
38	FH1	Z	-1.173	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	5.026	.5
2	MP5A	Z	-2.902	.5
3	MP5A	Mx	-.004	.5
4	MP5A	X	5.026	6.5
5	MP5A	Z	-2.902	6.5
6	MP5A	Mx	-.004	6.5
7	MP2A	X	2.707	.5
8	MP2A	Z	-1.563	.5
9	MP2A	Mx	-.003	.5
10	MP2A	X	2.707	6.5
11	MP2A	Z	-1.563	6.5
12	MP2A	Mx	-.003	6.5
13	MP2A	X	2.707	.5
14	MP2A	Z	-1.563	.5
15	MP2A	Mx	-.001	.5
16	MP2A	X	2.707	6.5
17	MP2A	Z	-1.563	6.5
18	MP2A	Mx	-.001	6.5
19	MP4A	X	1.709	.25
20	MP4A	Z	-.987	.25
21	MP4A	Mx	-.000855	.25
22	MP4A	X	1.709	2.25
23	MP4A	Z	-.987	2.25
24	MP4A	Mx	-.000855	2.25
25	MP3A	X	2.003	3
26	MP3A	Z	-1.157	3
27	MP3A	Mx	.001	3
28	MP2A	X	1.759	3
29	MP2A	Z	-1.015	3
30	MP2A	Mx	.001	3
31	MP4A	X	.746	4.5
32	MP4A	Z	-.431	4.5
33	MP4A	Mx	-.000373	4.5
34	FH1	X	.634	10
35	FH1	Z	-.366	10
36	FH1	Mx	0	10
37	FH1	X	.634	10
38	FH1	Z	-.366	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	4.925	.5
2	MP5A	Z	0	.5
3	MP5A	Mx	-.004	.5
4	MP5A	X	4.925	6.5
5	MP5A	Z	0	6.5
6	MP5A	Mx	-.004	6.5
7	MP2A	X	2.348	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	-.002	.5
10	MP2A	X	2.348	6.5
11	MP2A	Z	0	6.5
12	MP2A	Mx	-.002	6.5
13	MP2A	X	2.348	.5
14	MP2A	Z	0	.5
15	MP2A	Mx	-.002	.5
16	MP2A	X	2.348	6.5
17	MP2A	Z	0	6.5
18	MP2A	Mx	-.002	6.5
19	MP4A	X	1.337	.25
20	MP4A	Z	0	.25
21	MP4A	Mx	-.000668	.25
22	MP4A	X	1.337	2.25
23	MP4A	Z	0	2.25
24	MP4A	Mx	-.000668	2.25
25	MP3A	X	2.061	3
26	MP3A	Z	0	3
27	MP3A	Mx	.001	3
28	MP2A	X	1.684	3
29	MP2A	Z	0	3
30	MP2A	Mx	.000982	3
31	MP4A	X	.674	4.5
32	MP4A	Z	0	4.5
33	MP4A	Mx	-.000337	4.5
34	FH1	X	.617	10
35	FH1	Z	0	10
36	FH1	Mx	0	10
37	FH1	X	.617	10
38	FH1	Z	0	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	5.026	.5
2	MP5A	Z	2.902	.5
3	MP5A	Mx	-.004	.5
4	MP5A	X	5.026	6.5
5	MP5A	Z	2.902	6.5
6	MP5A	Mx	-.004	6.5
7	MP2A	X	2.707	.5
8	MP2A	Z	1.563	.5
9	MP2A	Mx	-.001	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
10	MP2A	X	2.707	6.5
11	MP2A	Z	1.563	6.5
12	MP2A	Mx	-.001	6.5
13	MP2A	X	2.707	.5
14	MP2A	Z	1.563	.5
15	MP2A	Mx	-.003	.5
16	MP2A	X	2.707	6.5
17	MP2A	Z	1.563	6.5
18	MP2A	Mx	-.003	6.5
19	MP4A	X	1.709	.25
20	MP4A	Z	.987	.25
21	MP4A	Mx	-.000855	.25
22	MP4A	X	1.709	2.25
23	MP4A	Z	.987	2.25
24	MP4A	Mx	-.000855	2.25
25	MP3A	X	2.003	3
26	MP3A	Z	1.157	3
27	MP3A	Mx	.001	3
28	MP2A	X	1.759	3
29	MP2A	Z	1.015	3
30	MP2A	Mx	.001	3
31	MP4A	X	.746	4.5
32	MP4A	Z	.431	4.5
33	MP4A	Mx	-.000373	4.5
34	FH1	X	.974	10
35	FH1	Z	.562	10
36	FH1	Mx	0	10
37	FH1	X	.974	10
38	FH1	Z	.562	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	3.781	.5
2	MP5A	Z	6.548	.5
3	MP5A	Mx	-.003	.5
4	MP5A	X	3.781	6.5
5	MP5A	Z	6.548	6.5
6	MP5A	Mx	-.003	6.5
7	MP2A	X	2.34	.5
8	MP2A	Z	4.054	.5
9	MP2A	Mx	.000655	.5
10	MP2A	X	2.34	6.5
11	MP2A	Z	4.054	6.5
12	MP2A	Mx	.000655	6.5
13	MP2A	X	2.34	.5
14	MP2A	Z	4.054	.5
15	MP2A	Mx	-.005	.5
16	MP2A	X	2.34	6.5
17	MP2A	Z	4.054	6.5
18	MP2A	Mx	-.005	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
19	MP4A	X	1.623	.25
20	MP4A	Z	2.812	.25
21	MP4A	Mx	-.000811	.25
22	MP4A	X	1.623	2.25
23	MP4A	Z	2.812	2.25
24	MP4A	Mx	-.000811	2.25
25	MP3A	X	1.409	3
26	MP3A	Z	2.441	3
27	MP3A	Mx	.000822	3
28	MP2A	X	1.362	3
29	MP2A	Z	2.359	3
30	MP2A	Mx	.000795	3
31	MP4A	X	.619	4.5
32	MP4A	Z	1.072	4.5
33	MP4A	Mx	-.00031	4.5
34	FH1	X	.874	10
35	FH1	Z	1.513	10
36	FH1	Mx	0	10
37	FH1	X	.874	10
38	FH1	Z	1.513	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	0	.5
2	MP5A	Z	8.44	.5
3	MP5A	Mx	0	.5
4	MP5A	X	0	6.5
5	MP5A	Z	8.44	6.5
6	MP5A	Mx	0	6.5
7	MP2A	X	0	.5
8	MP2A	Z	5.459	.5
9	MP2A	Mx	.004	.5
10	MP2A	X	0	6.5
11	MP2A	Z	5.459	6.5
12	MP2A	Mx	.004	6.5
13	MP2A	X	0	.5
14	MP2A	Z	5.459	.5
15	MP2A	Mx	-.004	.5
16	MP2A	X	0	6.5
17	MP2A	Z	5.459	6.5
18	MP2A	Mx	-.004	6.5
19	MP4A	X	0	.25
20	MP4A	Z	3.883	.25
21	MP4A	Mx	0	.25
22	MP4A	X	0	2.25
23	MP4A	Z	3.883	2.25
24	MP4A	Mx	0	2.25
25	MP3A	X	0	3
26	MP3A	Z	3.071	3
27	MP3A	Mx	0	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
28	MP2A	X	0	3
29	MP2A	Z	3.071	3
30	MP2A	Mx	0	3
31	MP4A	X	0	4.5
32	MP4A	Z	1.427	4.5
33	MP4A	Mx	0	4.5
34	FH1	X	0	10
35	FH1	Z	1.862	10
36	FH1	Mx	0	10
37	FH1	X	0	10
38	FH1	Z	1.862	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-3.781	.5
2	MP5A	Z	6.548	.5
3	MP5A	Mx	.003	.5
4	MP5A	X	-3.781	6.5
5	MP5A	Z	6.548	6.5
6	MP5A	Mx	.003	6.5
7	MP2A	X	-2.34	.5
8	MP2A	Z	4.054	.5
9	MP2A	Mx	.005	.5
10	MP2A	X	-2.34	6.5
11	MP2A	Z	4.054	6.5
12	MP2A	Mx	.005	6.5
13	MP2A	X	-2.34	.5
14	MP2A	Z	4.054	.5
15	MP2A	Mx	-.000655	.5
16	MP2A	X	-2.34	6.5
17	MP2A	Z	4.054	6.5
18	MP2A	Mx	-.000655	6.5
19	MP4A	X	-1.623	.25
20	MP4A	Z	2.812	.25
21	MP4A	Mx	.000811	.25
22	MP4A	X	-1.623	2.25
23	MP4A	Z	2.812	2.25
24	MP4A	Mx	.000811	2.25
25	MP3A	X	-1.409	3
26	MP3A	Z	2.441	3
27	MP3A	Mx	-.000822	3
28	MP2A	X	-1.362	3
29	MP2A	Z	2.359	3
30	MP2A	Mx	-.000795	3
31	MP4A	X	-.619	4.5
32	MP4A	Z	1.072	4.5
33	MP4A	Mx	.00031	4.5
34	FH1	X	-.677	10
35	FH1	Z	1.173	10
36	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
37	FH1	X	-.677	10
38	FH1	Z	1.173	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-5.026	.5
2	MP5A	Z	2.902	.5
3	MP5A	Mx	.004	.5
4	MP5A	X	-5.026	6.5
5	MP5A	Z	2.902	6.5
6	MP5A	Mx	.004	6.5
7	MP2A	X	-2.707	.5
8	MP2A	Z	1.563	.5
9	MP2A	Mx	.003	.5
10	MP2A	X	-2.707	6.5
11	MP2A	Z	1.563	6.5
12	MP2A	Mx	.003	6.5
13	MP2A	X	-2.707	.5
14	MP2A	Z	1.563	.5
15	MP2A	Mx	.001	.5
16	MP2A	X	-2.707	6.5
17	MP2A	Z	1.563	6.5
18	MP2A	Mx	.001	6.5
19	MP4A	X	-1.709	.25
20	MP4A	Z	.987	.25
21	MP4A	Mx	.000855	.25
22	MP4A	X	-1.709	2.25
23	MP4A	Z	.987	2.25
24	MP4A	Mx	.000855	2.25
25	MP3A	X	-2.003	3
26	MP3A	Z	1.157	3
27	MP3A	Mx	-.001	3
28	MP2A	X	-1.759	3
29	MP2A	Z	1.015	3
30	MP2A	Mx	-.001	3
31	MP4A	X	-.746	4.5
32	MP4A	Z	.431	4.5
33	MP4A	Mx	.000373	4.5
34	FH1	X	-.634	10
35	FH1	Z	.366	10
36	FH1	Mx	0	10
37	FH1	X	-.634	10
38	FH1	Z	.366	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-4.925	.5
2	MP5A	Z	0	.5
3	MP5A	Mx	.004	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP5A	X	-4.925	6.5
5	MP5A	Z	0	6.5
6	MP5A	Mx	.004	6.5
7	MP2A	X	-2.348	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	.002	.5
10	MP2A	X	-2.348	6.5
11	MP2A	Z	0	6.5
12	MP2A	Mx	.002	6.5
13	MP2A	X	-2.348	.5
14	MP2A	Z	0	.5
15	MP2A	Mx	.002	.5
16	MP2A	X	-2.348	6.5
17	MP2A	Z	0	6.5
18	MP2A	Mx	.002	6.5
19	MP4A	X	-1.337	.25
20	MP4A	Z	0	.25
21	MP4A	Mx	.000668	.25
22	MP4A	X	-1.337	2.25
23	MP4A	Z	0	2.25
24	MP4A	Mx	.000668	2.25
25	MP3A	X	-2.061	3
26	MP3A	Z	0	3
27	MP3A	Mx	-.001	3
28	MP2A	X	-1.684	3
29	MP2A	Z	0	3
30	MP2A	Mx	-.000982	3
31	MP4A	X	-.674	4.5
32	MP4A	Z	0	4.5
33	MP4A	Mx	.000337	4.5
34	FH1	X	-.617	10
35	FH1	Z	0	10
36	FH1	Mx	0	10
37	FH1	X	-.617	10
38	FH1	Z	0	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-5.026	.5
2	MP5A	Z	-2.902	.5
3	MP5A	Mx	.004	.5
4	MP5A	X	-5.026	6.5
5	MP5A	Z	-2.902	6.5
6	MP5A	Mx	.004	6.5
7	MP2A	X	-2.707	.5
8	MP2A	Z	-1.563	.5
9	MP2A	Mx	.001	.5
10	MP2A	X	-2.707	6.5
11	MP2A	Z	-1.563	6.5
12	MP2A	Mx	.001	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP2A	X	-2.707	.5
14	MP2A	Z	-1.563	.5
15	MP2A	Mx	.003	.5
16	MP2A	X	-2.707	6.5
17	MP2A	Z	-1.563	6.5
18	MP2A	Mx	.003	6.5
19	MP4A	X	-1.709	.25
20	MP4A	Z	-.987	.25
21	MP4A	Mx	.000855	.25
22	MP4A	X	-1.709	2.25
23	MP4A	Z	-.987	2.25
24	MP4A	Mx	.000855	2.25
25	MP3A	X	-2.003	3
26	MP3A	Z	-1.157	3
27	MP3A	Mx	-.001	3
28	MP2A	X	-1.759	3
29	MP2A	Z	-1.015	3
30	MP2A	Mx	-.001	3
31	MP4A	X	-.746	4.5
32	MP4A	Z	-.431	4.5
33	MP4A	Mx	.000373	4.5
34	FH1	X	-.974	10
35	FH1	Z	-.562	10
36	FH1	Mx	0	10
37	FH1	X	-.974	10
38	FH1	Z	-.562	10
39	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-3.781	.5
2	MP5A	Z	-6.548	.5
3	MP5A	Mx	.003	.5
4	MP5A	X	-3.781	6.5
5	MP5A	Z	-6.548	6.5
6	MP5A	Mx	.003	6.5
7	MP2A	X	-2.34	.5
8	MP2A	Z	-4.054	.5
9	MP2A	Mx	-.000655	.5
10	MP2A	X	-2.34	6.5
11	MP2A	Z	-4.054	6.5
12	MP2A	Mx	-.000655	6.5
13	MP2A	X	-2.34	.5
14	MP2A	Z	-4.054	.5
15	MP2A	Mx	.005	.5
16	MP2A	X	-2.34	6.5
17	MP2A	Z	-4.054	6.5
18	MP2A	Mx	.005	6.5
19	MP4A	X	-1.623	.25
20	MP4A	Z	-2.812	.25
21	MP4A	Mx	.000811	.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP4A	X	-1.623	2.25
23	MP4A	Z	-2.812	2.25
24	MP4A	Mx	.000811	2.25
25	MP3A	X	-1.409	3
26	MP3A	Z	-2.441	3
27	MP3A	Mx	-.000822	3
28	MP2A	X	-1.362	3
29	MP2A	Z	-2.359	3
30	MP2A	Mx	-.000795	3
31	MP4A	X	-.619	4.5
32	MP4A	Z	-1.072	4.5
33	MP4A	Mx	.00031	4.5
34	FH1	X	-.874	10
35	FH1	Z	-1.513	10
36	FH1	Mx	0	10
37	FH1	X	-.874	10
38	FH1	Z	-1.513	10
39	FH1	Mx	0	10

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	LM1	Y	-500	0

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	LM2	Y	-500	0

Member Point Loads (BLC 79 : Lv1)

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

Member Point Loads (BLC 80 : Lv2)

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

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	Y	-.657	.5
2	MP5A	My	-.000575	.5
3	MP5A	Mz	0	.5
4	MP5A	Y	-.657	6.5
5	MP5A	My	-.000575	6.5
6	MP5A	Mz	0	6.5
7	MP2A	Y	-.794	.5
8	MP2A	My	-.000694	.5
9	MP2A	Mz	.000529	.5
10	MP2A	Y	-.794	6.5
11	MP2A	My	-.000694	6.5
12	MP2A	Mz	.000529	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP2A	Y	-.794	.5
14	MP2A	My	-.000694	.5
15	MP2A	Mz	-.000529	.5
16	MP2A	Y	-.794	6.5
17	MP2A	My	-.000694	6.5
18	MP2A	Mz	-.000529	6.5
19	MP4A	Y	-1.728	.25
20	MP4A	My	-.000864	.25
21	MP4A	Mz	0	.25
22	MP4A	Y	-1.728	2.25
23	MP4A	My	-.000864	2.25
24	MP4A	Mz	0	2.25
25	MP3A	Y	-3.349	3
26	MP3A	My	.002	3
27	MP3A	Mz	0	3
28	MP2A	Y	-2.79	3
29	MP2A	My	.002	3
30	MP2A	Mz	0	3
31	MP4A	Y	-.742	4.5
32	MP4A	My	-.000371	4.5
33	MP4A	Mz	0	4.5
34	FH1	Y	-.698	10
35	FH1	My	0	10
36	FH1	Mz	0	10
37	FH1	Y	-.698	10
38	FH1	My	0	10
39	FH1	Mz	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	Z	-1.642	.5
2	MP5A	Mx	0	.5
3	MP5A	Z	-1.642	6.5
4	MP5A	Mx	0	6.5
5	MP2A	Z	-1.984	.5
6	MP2A	Mx	-.001	.5
7	MP2A	Z	-1.984	6.5
8	MP2A	Mx	-.001	6.5
9	MP2A	Z	-1.984	.5
10	MP2A	Mx	.001	.5
11	MP2A	Z	-1.984	6.5
12	MP2A	Mx	.001	6.5
13	MP4A	Z	-4.32	.25
14	MP4A	Mx	0	.25
15	MP4A	Z	-4.32	2.25
16	MP4A	Mx	0	2.25
17	MP3A	Z	-8.372	3
18	MP3A	Mx	0	3
19	MP2A	Z	-6.974	3
20	MP2A	Mx	0	3
21	MP4A	Z	-1.855	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP4A	Mx	0	4.5
23	FH1	Z	-1.746	10
24	FH1	Mx	0	10
25	FH1	Z	-1.746	10
26	FH1	Mx	0	10

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	1.642	.5
2	MP5A	Mx	-.001	.5
3	MP5A	X	1.642	6.5
4	MP5A	Mx	-.001	6.5
5	MP2A	X	1.984	.5
6	MP2A	Mx	-.002	.5
7	MP2A	X	1.984	6.5
8	MP2A	Mx	-.002	6.5
9	MP2A	X	1.984	.5
10	MP2A	Mx	-.002	.5
11	MP2A	X	1.984	6.5
12	MP2A	Mx	-.002	6.5
13	MP4A	X	4.32	.25
14	MP4A	Mx	-.002	.25
15	MP4A	X	4.32	2.25
16	MP4A	Mx	-.002	2.25
17	MP3A	X	8.372	3
18	MP3A	Mx	.005	3
19	MP2A	X	6.974	3
20	MP2A	Mx	.004	3
21	MP4A	X	1.855	4.5
22	MP4A	Mx	-.000928	4.5
23	FH1	X	1.746	10
24	FH1	Mx	0	10
25	FH1	X	1.746	10
26	FH1	Mx	0	10

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	Y	-9.503	-9.503	0	%100
2	FH1	Y	-9.503	-9.503	0	%100
3	MP5A	Y	-8.465	-8.465	0	%100
4	MP3A	Y	-8.465	-8.465	0	%100
5	MP2A	Y	-8.465	-8.465	0	%100
6	MP1A	Y	-8.465	-8.465	0	%100
7	SH1	Y	-8.465	-8.465	0	%100
8	SH3	Y	-8.465	-8.465	0	%100
9	SH2	Y	-8.465	-8.465	0	%100
10	SH4	Y	-8.465	-8.465	0	%100
11	V1	Y	-7.478	-7.478	0	%100
12	V2	Y	-5.713	-5.713	0	%100
13	V3	Y	-5.713	-5.713	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
14	V6	Y	-7.478	-7.478	0	%100
15	V4	Y	-5.713	-5.713	0	%100
16	V5	Y	-5.713	-5.713	0	%100
17	D2	Y	-5.713	-5.713	0	%100
18	D1	Y	-5.713	-5.713	0	%100
19	D3	Y	-5.713	-5.713	0	%100
20	D4	Y	-5.713	-5.713	0	%100
21	MP4A	Y	-8.465	-8.465	0	%100
22	M33	Y	-8.465	-8.465	0	%100
23	M33A	Y	-7.718	-7.718	0	%100
24	M34	Y	-7.718	-7.718	0	%100
25	M35	Y	-7.718	-7.718	0	%100
26	M36	Y	-7.718	-7.718	0	%100
27	M37	Y	-7.718	-7.718	0	%100
28	M38	Y	-7.718	-7.718	0	%100
29	M39	Y	-7.718	-7.718	0	%100
30	M40	Y	-7.718	-7.718	0	%100
31	M41	Y	-7.718	-7.718	0	%100
32	M42	Y	-7.718	-7.718	0	%100
33	M43	Y	-7.718	-7.718	0	%100
34	M44	Y	-7.718	-7.718	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	0	0	0	%100
2	LV	Z	-9.114	-9.114	0	%100
3	FH1	X	0	0	0	%100
4	FH1	Z	-9.114	-9.114	0	%100
5	MP5A	X	0	0	0	%100
6	MP5A	Z	-7.529	-7.529	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-7.529	-7.529	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	-7.529	-7.529	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	-7.529	-7.529	0	%100
13	SH1	X	0	0	0	%100
14	SH1	Z	-4.096	-4.096	0	%100
15	SH3	X	0	0	0	%100
16	SH3	Z	-4.096	-4.096	0	%100
17	SH2	X	0	0	0	%100
18	SH2	Z	-4.096	-4.096	0	%100
19	SH4	X	0	0	0	%100
20	SH4	Z	-4.096	-4.096	0	%100
21	V1	X	0	0	0	%100
22	V1	Z	-5.377	-5.377	0	%100
23	V2	X	0	0	0	%100
24	V2	Z	-3.329	-3.329	0	%100
25	V3	X	0	0	0	%100
26	V3	Z	-3.329	-3.329	0	%100
27	V6	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
28	V6	Z	-5.377	-5.377	0	%100
29	V4	X	0	0	0	%100
30	V4	Z	-3.329	-3.329	0	%100
31	V5	X	0	0	0	%100
32	V5	Z	-3.329	-3.329	0	%100
33	D2	X	0	0	0	%100
34	D2	Z	-2.741	-2.741	0	%100
35	D1	X	0	0	0	%100
36	D1	Z	-2.741	-2.741	0	%100
37	D3	X	0	0	0	%100
38	D3	Z	-2.741	-2.741	0	%100
39	D4	X	0	0	0	%100
40	D4	Z	-2.741	-2.741	0	%100
41	MP4A	X	0	0	0	%100
42	MP4A	Z	-7.529	-7.529	0	%100
43	M33	X	0	0	0	%100
44	M33	Z	-1.501	-1.501	0	%100
45	M33A	X	0	0	0	%100
46	M33A	Z	-3.709	-3.709	0	%100
47	M34	X	0	0	0	%100
48	M34	Z	-3.709	-3.709	0	%100
49	M35	X	0	0	0	%100
50	M35	Z	-3.709	-3.709	0	%100
51	M36	X	0	0	0	%100
52	M36	Z	-3.709	-3.709	0	%100
53	M37	X	0	0	0	%100
54	M37	Z	-3.709	-3.709	0	%100
55	M38	X	0	0	0	%100
56	M38	Z	-3.709	-3.709	0	%100
57	M39	X	0	0	0	%100
58	M39	Z	-3.709	-3.709	0	%100
59	M40	X	0	0	0	%100
60	M40	Z	-3.709	-3.709	0	%100
61	M41	X	0	0	0	%100
62	M41	Z	-3.709	-3.709	0	%100
63	M42	X	0	0	0	%100
64	M42	Z	-3.709	-3.709	0	%100
65	M43	X	0	0	0	%100
66	M43	Z	-3.709	-3.709	0	%100
67	M44	X	0	0	0	%100
68	M44	Z	-3.709	-3.709	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	3.418	3.418	0	%100
2	LV	Z	-5.92	-5.92	0	%100
3	FH1	X	3.418	3.418	0	%100
4	FH1	Z	-5.92	-5.92	0	%100
5	MP5A	X	3.764	3.764	0	%100
6	MP5A	Z	-6.52	-6.52	0	%100
7	MP3A	X	3.764	3.764	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
8	MP3A	Z	-6.52	-6.52	0	%100
9	MP2A	X	3.764	3.764	0	%100
10	MP2A	Z	-6.52	-6.52	0	%100
11	MP1A	X	3.764	3.764	0	%100
12	MP1A	Z	-6.52	-6.52	0	%100
13	SH1	X	.341	.341	0	%100
14	SH1	Z	-.591	-.591	0	%100
15	SH3	X	3.589	3.589	0	%100
16	SH3	Z	-6.216	-6.216	0	%100
17	SH2	X	.341	.341	0	%100
18	SH2	Z	-.591	-.591	0	%100
19	SH4	X	3.589	3.589	0	%100
20	SH4	Z	-6.216	-6.216	0	%100
21	V1	X	2.689	2.689	0	%100
22	V1	Z	-4.657	-4.657	0	%100
23	V2	X	1.664	1.664	0	%100
24	V2	Z	-2.883	-2.883	0	%100
25	V3	X	1.664	1.664	0	%100
26	V3	Z	-2.883	-2.883	0	%100
27	V6	X	2.689	2.689	0	%100
28	V6	Z	-4.657	-4.657	0	%100
29	V4	X	1.664	1.664	0	%100
30	V4	Z	-2.883	-2.883	0	%100
31	V5	X	1.664	1.664	0	%100
32	V5	Z	-2.883	-2.883	0	%100
33	D2	X	1.079	1.079	0	%100
34	D2	Z	-1.868	-1.868	0	%100
35	D1	X	1.079	1.079	0	%100
36	D1	Z	-1.868	-1.868	0	%100
37	D3	X	1.634	1.634	0	%100
38	D3	Z	-2.831	-2.831	0	%100
39	D4	X	1.634	1.634	0	%100
40	D4	Z	-2.831	-2.831	0	%100
41	MP4A	X	3.764	3.764	0	%100
42	MP4A	Z	-6.52	-6.52	0	%100
43	M33	X	2.619	2.619	0	%100
44	M33	Z	-4.536	-4.536	0	%100
45	M33A	X	2.994	2.994	0	%100
46	M33A	Z	-5.186	-5.186	0	%100
47	M34	X	2.994	2.994	0	%100
48	M34	Z	-5.186	-5.186	0	%100
49	M35	X	2.994	2.994	0	%100
50	M35	Z	-5.186	-5.186	0	%100
51	M36	X	.716	.716	0	%100
52	M36	Z	-1.239	-1.239	0	%100
53	M37	X	.716	.716	0	%100
54	M37	Z	-1.239	-1.239	0	%100
55	M38	X	.716	.716	0	%100
56	M38	Z	-1.239	-1.239	0	%100
57	M39	X	2.994	2.994	0	%100
58	M39	Z	-5.186	-5.186	0	%100
59	M40	X	2.994	2.994	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
60	M40	Z	-5.186	-5.186	0	%100
61	M41	X	2.994	2.994	0	%100
62	M41	Z	-5.186	-5.186	0	%100
63	M42	X	.716	.716	0	%100
64	M42	Z	-1.239	-1.239	0	%100
65	M43	X	.716	.716	0	%100
66	M43	Z	-1.239	-1.239	0	%100
67	M44	X	.716	.716	0	%100
68	M44	Z	-1.239	-1.239	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	1.973	1.973	0	%100
2	LV	Z	-1.139	-1.139	0	%100
3	FH1	X	1.973	1.973	0	%100
4	FH1	Z	-1.139	-1.139	0	%100
5	MP5A	X	6.52	6.52	0	%100
6	MP5A	Z	-3.764	-3.764	0	%100
7	MP3A	X	6.52	6.52	0	%100
8	MP3A	Z	-3.764	-3.764	0	%100
9	MP2A	X	6.52	6.52	0	%100
10	MP2A	Z	-3.764	-3.764	0	%100
11	MP1A	X	6.52	6.52	0	%100
12	MP1A	Z	-3.764	-3.764	0	%100
13	SH1	X	.304	.304	0	%100
14	SH1	Z	-.176	-.176	0	%100
15	SH3	X	5.929	5.929	0	%100
16	SH3	Z	-3.423	-3.423	0	%100
17	SH2	X	.304	.304	0	%100
18	SH2	Z	-.176	-.176	0	%100
19	SH4	X	5.929	5.929	0	%100
20	SH4	Z	-3.423	-3.423	0	%100
21	V1	X	4.657	4.657	0	%100
22	V1	Z	-2.689	-2.689	0	%100
23	V2	X	2.883	2.883	0	%100
24	V2	Z	-1.664	-1.664	0	%100
25	V3	X	2.883	2.883	0	%100
26	V3	Z	-1.664	-1.664	0	%100
27	V6	X	4.657	4.657	0	%100
28	V6	Z	-2.689	-2.689	0	%100
29	V4	X	2.883	2.883	0	%100
30	V4	Z	-1.664	-1.664	0	%100
31	V5	X	2.883	2.883	0	%100
32	V5	Z	-1.664	-1.664	0	%100
33	D2	X	1.819	1.819	0	%100
34	D2	Z	-1.05	-1.05	0	%100
35	D1	X	1.819	1.819	0	%100
36	D1	Z	-1.05	-1.05	0	%100
37	D3	X	2.782	2.782	0	%100
38	D3	Z	-1.606	-1.606	0	%100
39	D4	X	2.782	2.782	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
40	D4	Z	-1.606	-1.606	0	%100
41	MP4A	X	6.52	6.52	0	%100
42	MP4A	Z	-3.764	-3.764	0	%100
43	M33	X	6.496	6.496	0	%100
44	M33	Z	-3.751	-3.751	0	%100
45	M33A	X	5.186	5.186	0	%100
46	M33A	Z	-2.994	-2.994	0	%100
47	M34	X	5.186	5.186	0	%100
48	M34	Z	-2.994	-2.994	0	%100
49	M35	X	5.186	5.186	0	%100
50	M35	Z	-2.994	-2.994	0	%100
51	M36	X	1.239	1.239	0	%100
52	M36	Z	-.716	-.716	0	%100
53	M37	X	1.239	1.239	0	%100
54	M37	Z	-.716	-.716	0	%100
55	M38	X	1.239	1.239	0	%100
56	M38	Z	-.716	-.716	0	%100
57	M39	X	5.186	5.186	0	%100
58	M39	Z	-2.994	-2.994	0	%100
59	M40	X	5.186	5.186	0	%100
60	M40	Z	-2.994	-2.994	0	%100
61	M41	X	5.186	5.186	0	%100
62	M41	Z	-2.994	-2.994	0	%100
63	M42	X	1.239	1.239	0	%100
64	M42	Z	-.716	-.716	0	%100
65	M43	X	1.239	1.239	0	%100
66	M43	Z	-.716	-.716	0	%100
67	M44	X	1.239	1.239	0	%100
68	M44	Z	-.716	-.716	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	0	0	0	%100
2	LV	Z	0	0	0	%100
3	FH1	X	0	0	0	%100
4	FH1	Z	0	0	0	%100
5	MP5A	X	7.529	7.529	0	%100
6	MP5A	Z	0	0	0	%100
7	MP3A	X	7.529	7.529	0	%100
8	MP3A	Z	0	0	0	%100
9	MP2A	X	7.529	7.529	0	%100
10	MP2A	Z	0	0	0	%100
11	MP1A	X	7.529	7.529	0	%100
12	MP1A	Z	0	0	0	%100
13	SH1	X	3.433	3.433	0	%100
14	SH1	Z	0	0	0	%100
15	SH3	X	3.433	3.433	0	%100
16	SH3	Z	0	0	0	%100
17	SH2	X	3.433	3.433	0	%100
18	SH2	Z	0	0	0	%100
19	SH4	X	3.433	3.433	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
20	SH4	Z	0	0	0	%100
21	V1	X	5.377	5.377	0	%100
22	V1	Z	0	0	0	%100
23	V2	X	3.329	3.329	0	%100
24	V2	Z	0	0	0	%100
25	V3	X	3.329	3.329	0	%100
26	V3	Z	0	0	0	%100
27	V6	X	5.377	5.377	0	%100
28	V6	Z	0	0	0	%100
29	V4	X	3.329	3.329	0	%100
30	V4	Z	0	0	0	%100
31	V5	X	3.329	3.329	0	%100
32	V5	Z	0	0	0	%100
33	D2	X	2.628	2.628	0	%100
34	D2	Z	0	0	0	%100
35	D1	X	2.628	2.628	0	%100
36	D1	Z	0	0	0	%100
37	D3	X	2.628	2.628	0	%100
38	D3	Z	0	0	0	%100
39	D4	X	2.628	2.628	0	%100
40	D4	Z	0	0	0	%100
41	MP4A	X	7.529	7.529	0	%100
42	MP4A	Z	0	0	0	%100
43	M33	X	6.028	6.028	0	%100
44	M33	Z	0	0	0	%100
45	M33A	X	3.709	3.709	0	%100
46	M33A	Z	0	0	0	%100
47	M34	X	3.709	3.709	0	%100
48	M34	Z	0	0	0	%100
49	M35	X	3.709	3.709	0	%100
50	M35	Z	0	0	0	%100
51	M36	X	3.709	3.709	0	%100
52	M36	Z	0	0	0	%100
53	M37	X	3.709	3.709	0	%100
54	M37	Z	0	0	0	%100
55	M38	X	3.709	3.709	0	%100
56	M38	Z	0	0	0	%100
57	M39	X	3.709	3.709	0	%100
58	M39	Z	0	0	0	%100
59	M40	X	3.709	3.709	0	%100
60	M40	Z	0	0	0	%100
61	M41	X	3.709	3.709	0	%100
62	M41	Z	0	0	0	%100
63	M42	X	3.709	3.709	0	%100
64	M42	Z	0	0	0	%100
65	M43	X	3.709	3.709	0	%100
66	M43	Z	0	0	0	%100
67	M44	X	3.709	3.709	0	%100
68	M44	Z	0	0	0	%100

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

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

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	1.973	1.973	0	%100
2	LV	Z	1.139	1.139	0	%100
3	FH1	X	1.973	1.973	0	%100
4	FH1	Z	1.139	1.139	0	%100
5	MP5A	X	6.52	6.52	0	%100
6	MP5A	Z	3.764	3.764	0	%100
7	MP3A	X	6.52	6.52	0	%100
8	MP3A	Z	3.764	3.764	0	%100
9	MP2A	X	6.52	6.52	0	%100
10	MP2A	Z	3.764	3.764	0	%100
11	MP1A	X	6.52	6.52	0	%100
12	MP1A	Z	3.764	3.764	0	%100
13	SH1	X	5.929	5.929	0	%100
14	SH1	Z	3.423	3.423	0	%100
15	SH3	X	.304	.304	0	%100
16	SH3	Z	.176	.176	0	%100
17	SH2	X	5.929	5.929	0	%100
18	SH2	Z	3.423	3.423	0	%100
19	SH4	X	.304	.304	0	%100
20	SH4	Z	.176	.176	0	%100
21	V1	X	4.657	4.657	0	%100
22	V1	Z	2.689	2.689	0	%100
23	V2	X	2.883	2.883	0	%100
24	V2	Z	1.664	1.664	0	%100
25	V3	X	2.883	2.883	0	%100
26	V3	Z	1.664	1.664	0	%100
27	V6	X	4.657	4.657	0	%100
28	V6	Z	2.689	2.689	0	%100
29	V4	X	2.883	2.883	0	%100
30	V4	Z	1.664	1.664	0	%100
31	V5	X	2.883	2.883	0	%100
32	V5	Z	1.664	1.664	0	%100
33	D2	X	2.782	2.782	0	%100
34	D2	Z	1.606	1.606	0	%100
35	D1	X	2.782	2.782	0	%100
36	D1	Z	1.606	1.606	0	%100
37	D3	X	1.819	1.819	0	%100
38	D3	Z	1.05	1.05	0	%100
39	D4	X	1.819	1.819	0	%100
40	D4	Z	1.05	1.05	0	%100
41	MP4A	X	6.52	6.52	0	%100
42	MP4A	Z	3.764	3.764	0	%100
43	M33	X	1.984	1.984	0	%100
44	M33	Z	1.145	1.145	0	%100
45	M33A	X	1.239	1.239	0	%100
46	M33A	Z	.716	.716	0	%100
47	M34	X	1.239	1.239	0	%100
48	M34	Z	.716	.716	0	%100
49	M35	X	1.239	1.239	0	%100
50	M35	Z	.716	.716	0	%100
51	M36	X	5.186	5.186	0	%100
52	M36	Z	2.994	2.994	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
53	M37	X	5.186	5.186	0	%100
54	M37	Z	2.994	2.994	0	%100
55	M38	X	5.186	5.186	0	%100
56	M38	Z	2.994	2.994	0	%100
57	M39	X	1.239	1.239	0	%100
58	M39	Z	.716	.716	0	%100
59	M40	X	1.239	1.239	0	%100
60	M40	Z	.716	.716	0	%100
61	M41	X	1.239	1.239	0	%100
62	M41	Z	.716	.716	0	%100
63	M42	X	5.186	5.186	0	%100
64	M42	Z	2.994	2.994	0	%100
65	M43	X	5.186	5.186	0	%100
66	M43	Z	2.994	2.994	0	%100
67	M44	X	5.186	5.186	0	%100
68	M44	Z	2.994	2.994	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	3.418	3.418	0	%100
2	LV	Z	5.92	5.92	0	%100
3	FH1	X	3.418	3.418	0	%100
4	FH1	Z	5.92	5.92	0	%100
5	MP5A	X	3.764	3.764	0	%100
6	MP5A	Z	6.52	6.52	0	%100
7	MP3A	X	3.764	3.764	0	%100
8	MP3A	Z	6.52	6.52	0	%100
9	MP2A	X	3.764	3.764	0	%100
10	MP2A	Z	6.52	6.52	0	%100
11	MP1A	X	3.764	3.764	0	%100
12	MP1A	Z	6.52	6.52	0	%100
13	SH1	X	3.589	3.589	0	%100
14	SH1	Z	6.216	6.216	0	%100
15	SH3	X	.341	.341	0	%100
16	SH3	Z	.591	.591	0	%100
17	SH2	X	3.589	3.589	0	%100
18	SH2	Z	6.216	6.216	0	%100
19	SH4	X	.341	.341	0	%100
20	SH4	Z	.591	.591	0	%100
21	V1	X	2.689	2.689	0	%100
22	V1	Z	4.657	4.657	0	%100
23	V2	X	1.664	1.664	0	%100
24	V2	Z	2.883	2.883	0	%100
25	V3	X	1.664	1.664	0	%100
26	V3	Z	2.883	2.883	0	%100
27	V6	X	2.689	2.689	0	%100
28	V6	Z	4.657	4.657	0	%100
29	V4	X	1.664	1.664	0	%100
30	V4	Z	2.883	2.883	0	%100
31	V5	X	1.664	1.664	0	%100
32	V5	Z	2.883	2.883	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
33	D2	X	1.634	1.634	0	%100
34	D2	Z	2.831	2.831	0	%100
35	D1	X	1.634	1.634	0	%100
36	D1	Z	2.831	2.831	0	%100
37	D3	X	1.079	1.079	0	%100
38	D3	Z	1.868	1.868	0	%100
39	D4	X	1.079	1.079	0	%100
40	D4	Z	1.868	1.868	0	%100
41	MP4A	X	3.764	3.764	0	%100
42	MP4A	Z	6.52	6.52	0	%100
43	M33	X	.014	.014	0	%100
44	M33	Z	.024	.024	0	%100
45	M33A	X	.716	.716	0	%100
46	M33A	Z	1.239	1.239	0	%100
47	M34	X	.716	.716	0	%100
48	M34	Z	1.239	1.239	0	%100
49	M35	X	.716	.716	0	%100
50	M35	Z	1.239	1.239	0	%100
51	M36	X	2.994	2.994	0	%100
52	M36	Z	5.186	5.186	0	%100
53	M37	X	2.994	2.994	0	%100
54	M37	Z	5.186	5.186	0	%100
55	M38	X	2.994	2.994	0	%100
56	M38	Z	5.186	5.186	0	%100
57	M39	X	.716	.716	0	%100
58	M39	Z	1.239	1.239	0	%100
59	M40	X	.716	.716	0	%100
60	M40	Z	1.239	1.239	0	%100
61	M41	X	.716	.716	0	%100
62	M41	Z	1.239	1.239	0	%100
63	M42	X	2.994	2.994	0	%100
64	M42	Z	5.186	5.186	0	%100
65	M43	X	2.994	2.994	0	%100
66	M43	Z	5.186	5.186	0	%100
67	M44	X	2.994	2.994	0	%100
68	M44	Z	5.186	5.186	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	0	0	0	%100
2	LV	Z	9.114	9.114	0	%100
3	FH1	X	0	0	0	%100
4	FH1	Z	9.114	9.114	0	%100
5	MP5A	X	0	0	0	%100
6	MP5A	Z	7.529	7.529	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	7.529	7.529	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	7.529	7.529	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	7.529	7.529	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
13	SH1	X	0	0	0	%100
14	SH1	Z	4.096	4.096	0	%100
15	SH3	X	0	0	0	%100
16	SH3	Z	4.096	4.096	0	%100
17	SH2	X	0	0	0	%100
18	SH2	Z	4.096	4.096	0	%100
19	SH4	X	0	0	0	%100
20	SH4	Z	4.096	4.096	0	%100
21	V1	X	0	0	0	%100
22	V1	Z	5.377	5.377	0	%100
23	V2	X	0	0	0	%100
24	V2	Z	3.329	3.329	0	%100
25	V3	X	0	0	0	%100
26	V3	Z	3.329	3.329	0	%100
27	V6	X	0	0	0	%100
28	V6	Z	5.377	5.377	0	%100
29	V4	X	0	0	0	%100
30	V4	Z	3.329	3.329	0	%100
31	V5	X	0	0	0	%100
32	V5	Z	3.329	3.329	0	%100
33	D2	X	0	0	0	%100
34	D2	Z	2.741	2.741	0	%100
35	D1	X	0	0	0	%100
36	D1	Z	2.741	2.741	0	%100
37	D3	X	0	0	0	%100
38	D3	Z	2.741	2.741	0	%100
39	D4	X	0	0	0	%100
40	D4	Z	2.741	2.741	0	%100
41	MP4A	X	0	0	0	%100
42	MP4A	Z	7.529	7.529	0	%100
43	M33	X	0	0	0	%100
44	M33	Z	1.501	1.501	0	%100
45	M33A	X	0	0	0	%100
46	M33A	Z	3.709	3.709	0	%100
47	M34	X	0	0	0	%100
48	M34	Z	3.709	3.709	0	%100
49	M35	X	0	0	0	%100
50	M35	Z	3.709	3.709	0	%100
51	M36	X	0	0	0	%100
52	M36	Z	3.709	3.709	0	%100
53	M37	X	0	0	0	%100
54	M37	Z	3.709	3.709	0	%100
55	M38	X	0	0	0	%100
56	M38	Z	3.709	3.709	0	%100
57	M39	X	0	0	0	%100
58	M39	Z	3.709	3.709	0	%100
59	M40	X	0	0	0	%100
60	M40	Z	3.709	3.709	0	%100
61	M41	X	0	0	0	%100
62	M41	Z	3.709	3.709	0	%100
63	M42	X	0	0	0	%100
64	M42	Z	3.709	3.709	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
65	M43	X	0	0	0	%100
66	M43	Z	3.709	3.709	0	%100
67	M44	X	0	0	0	%100
68	M44	Z	3.709	3.709	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	-3.418	-3.418	0	%100
2	LV	Z	5.92	5.92	0	%100
3	FH1	X	-3.418	-3.418	0	%100
4	FH1	Z	5.92	5.92	0	%100
5	MP5A	X	-3.764	-3.764	0	%100
6	MP5A	Z	6.52	6.52	0	%100
7	MP3A	X	-3.764	-3.764	0	%100
8	MP3A	Z	6.52	6.52	0	%100
9	MP2A	X	-3.764	-3.764	0	%100
10	MP2A	Z	6.52	6.52	0	%100
11	MP1A	X	-3.764	-3.764	0	%100
12	MP1A	Z	6.52	6.52	0	%100
13	SH1	X	-.341	-.341	0	%100
14	SH1	Z	.591	.591	0	%100
15	SH3	X	-3.589	-3.589	0	%100
16	SH3	Z	6.216	6.216	0	%100
17	SH2	X	-.341	-.341	0	%100
18	SH2	Z	.591	.591	0	%100
19	SH4	X	-3.589	-3.589	0	%100
20	SH4	Z	6.216	6.216	0	%100
21	V1	X	-2.689	-2.689	0	%100
22	V1	Z	4.657	4.657	0	%100
23	V2	X	-1.664	-1.664	0	%100
24	V2	Z	2.883	2.883	0	%100
25	V3	X	-1.664	-1.664	0	%100
26	V3	Z	2.883	2.883	0	%100
27	V6	X	-2.689	-2.689	0	%100
28	V6	Z	4.657	4.657	0	%100
29	V4	X	-1.664	-1.664	0	%100
30	V4	Z	2.883	2.883	0	%100
31	V5	X	-1.664	-1.664	0	%100
32	V5	Z	2.883	2.883	0	%100
33	D2	X	-1.079	-1.079	0	%100
34	D2	Z	1.868	1.868	0	%100
35	D1	X	-1.079	-1.079	0	%100
36	D1	Z	1.868	1.868	0	%100
37	D3	X	-1.634	-1.634	0	%100
38	D3	Z	2.831	2.831	0	%100
39	D4	X	-1.634	-1.634	0	%100
40	D4	Z	2.831	2.831	0	%100
41	MP4A	X	-3.764	-3.764	0	%100
42	MP4A	Z	6.52	6.52	0	%100
43	M33	X	-2.619	-2.619	0	%100
44	M33	Z	4.536	4.536	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
45	M33A	X	-2.994	-2.994	0	%100
46	M33A	Z	5.186	5.186	0	%100
47	M34	X	-2.994	-2.994	0	%100
48	M34	Z	5.186	5.186	0	%100
49	M35	X	-2.994	-2.994	0	%100
50	M35	Z	5.186	5.186	0	%100
51	M36	X	-.716	-.716	0	%100
52	M36	Z	1.239	1.239	0	%100
53	M37	X	-.716	-.716	0	%100
54	M37	Z	1.239	1.239	0	%100
55	M38	X	-.716	-.716	0	%100
56	M38	Z	1.239	1.239	0	%100
57	M39	X	-2.994	-2.994	0	%100
58	M39	Z	5.186	5.186	0	%100
59	M40	X	-2.994	-2.994	0	%100
60	M40	Z	5.186	5.186	0	%100
61	M41	X	-2.994	-2.994	0	%100
62	M41	Z	5.186	5.186	0	%100
63	M42	X	-.716	-.716	0	%100
64	M42	Z	1.239	1.239	0	%100
65	M43	X	-.716	-.716	0	%100
66	M43	Z	1.239	1.239	0	%100
67	M44	X	-.716	-.716	0	%100
68	M44	Z	1.239	1.239	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	-1.973	-1.973	0	%100
2	LV	Z	1.139	1.139	0	%100
3	FH1	X	-1.973	-1.973	0	%100
4	FH1	Z	1.139	1.139	0	%100
5	MP5A	X	-6.52	-6.52	0	%100
6	MP5A	Z	3.764	3.764	0	%100
7	MP3A	X	-6.52	-6.52	0	%100
8	MP3A	Z	3.764	3.764	0	%100
9	MP2A	X	-6.52	-6.52	0	%100
10	MP2A	Z	3.764	3.764	0	%100
11	MP1A	X	-6.52	-6.52	0	%100
12	MP1A	Z	3.764	3.764	0	%100
13	SH1	X	-.304	-.304	0	%100
14	SH1	Z	.176	.176	0	%100
15	SH3	X	-5.929	-5.929	0	%100
16	SH3	Z	3.423	3.423	0	%100
17	SH2	X	-.304	-.304	0	%100
18	SH2	Z	.176	.176	0	%100
19	SH4	X	-5.929	-5.929	0	%100
20	SH4	Z	3.423	3.423	0	%100
21	V1	X	-4.657	-4.657	0	%100
22	V1	Z	2.689	2.689	0	%100
23	V2	X	-2.883	-2.883	0	%100
24	V2	Z	1.664	1.664	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
25	V3	X	-2.883	-2.883	0	%100
26	V3	Z	1.664	1.664	0	%100
27	V6	X	-4.657	-4.657	0	%100
28	V6	Z	2.689	2.689	0	%100
29	V4	X	-2.883	-2.883	0	%100
30	V4	Z	1.664	1.664	0	%100
31	V5	X	-2.883	-2.883	0	%100
32	V5	Z	1.664	1.664	0	%100
33	D2	X	-1.819	-1.819	0	%100
34	D2	Z	1.05	1.05	0	%100
35	D1	X	-1.819	-1.819	0	%100
36	D1	Z	1.05	1.05	0	%100
37	D3	X	-2.782	-2.782	0	%100
38	D3	Z	1.606	1.606	0	%100
39	D4	X	-2.782	-2.782	0	%100
40	D4	Z	1.606	1.606	0	%100
41	MP4A	X	-6.52	-6.52	0	%100
42	MP4A	Z	3.764	3.764	0	%100
43	M33	X	-6.496	-6.496	0	%100
44	M33	Z	3.751	3.751	0	%100
45	M33A	X	-5.186	-5.186	0	%100
46	M33A	Z	2.994	2.994	0	%100
47	M34	X	-5.186	-5.186	0	%100
48	M34	Z	2.994	2.994	0	%100
49	M35	X	-5.186	-5.186	0	%100
50	M35	Z	2.994	2.994	0	%100
51	M36	X	-1.239	-1.239	0	%100
52	M36	Z	.716	.716	0	%100
53	M37	X	-1.239	-1.239	0	%100
54	M37	Z	.716	.716	0	%100
55	M38	X	-1.239	-1.239	0	%100
56	M38	Z	.716	.716	0	%100
57	M39	X	-5.186	-5.186	0	%100
58	M39	Z	2.994	2.994	0	%100
59	M40	X	-5.186	-5.186	0	%100
60	M40	Z	2.994	2.994	0	%100
61	M41	X	-5.186	-5.186	0	%100
62	M41	Z	2.994	2.994	0	%100
63	M42	X	-1.239	-1.239	0	%100
64	M42	Z	.716	.716	0	%100
65	M43	X	-1.239	-1.239	0	%100
66	M43	Z	.716	.716	0	%100
67	M44	X	-1.239	-1.239	0	%100
68	M44	Z	.716	.716	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	0	0	0	%100
2	LV	Z	0	0	0	%100
3	FH1	X	0	0	0	%100
4	FH1	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,F...	Start Location[ft,%]	End Location[ft,%]
5	MP5A	X	-7.529	-7.529	0	%100
6	MP5A	Z	0	0	0	%100
7	MP3A	X	-7.529	-7.529	0	%100
8	MP3A	Z	0	0	0	%100
9	MP2A	X	-7.529	-7.529	0	%100
10	MP2A	Z	0	0	0	%100
11	MP1A	X	-7.529	-7.529	0	%100
12	MP1A	Z	0	0	0	%100
13	SH1	X	-3.433	-3.433	0	%100
14	SH1	Z	0	0	0	%100
15	SH3	X	-3.433	-3.433	0	%100
16	SH3	Z	0	0	0	%100
17	SH2	X	-3.433	-3.433	0	%100
18	SH2	Z	0	0	0	%100
19	SH4	X	-3.433	-3.433	0	%100
20	SH4	Z	0	0	0	%100
21	V1	X	-5.377	-5.377	0	%100
22	V1	Z	0	0	0	%100
23	V2	X	-3.329	-3.329	0	%100
24	V2	Z	0	0	0	%100
25	V3	X	-3.329	-3.329	0	%100
26	V3	Z	0	0	0	%100
27	V6	X	-5.377	-5.377	0	%100
28	V6	Z	0	0	0	%100
29	V4	X	-3.329	-3.329	0	%100
30	V4	Z	0	0	0	%100
31	V5	X	-3.329	-3.329	0	%100
32	V5	Z	0	0	0	%100
33	D2	X	-2.628	-2.628	0	%100
34	D2	Z	0	0	0	%100
35	D1	X	-2.628	-2.628	0	%100
36	D1	Z	0	0	0	%100
37	D3	X	-2.628	-2.628	0	%100
38	D3	Z	0	0	0	%100
39	D4	X	-2.628	-2.628	0	%100
40	D4	Z	0	0	0	%100
41	MP4A	X	-7.529	-7.529	0	%100
42	MP4A	Z	0	0	0	%100
43	M33	X	-6.028	-6.028	0	%100
44	M33	Z	0	0	0	%100
45	M33A	X	-3.709	-3.709	0	%100
46	M33A	Z	0	0	0	%100
47	M34	X	-3.709	-3.709	0	%100
48	M34	Z	0	0	0	%100
49	M35	X	-3.709	-3.709	0	%100
50	M35	Z	0	0	0	%100
51	M36	X	-3.709	-3.709	0	%100
52	M36	Z	0	0	0	%100
53	M37	X	-3.709	-3.709	0	%100
54	M37	Z	0	0	0	%100
55	M38	X	-3.709	-3.709	0	%100
56	M38	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,F...	Start Location[ft,%]	End Location[ft,%]
57	M39	X	-3.709	-3.709	0	%100
58	M39	Z	0	0	0	%100
59	M40	X	-3.709	-3.709	0	%100
60	M40	Z	0	0	0	%100
61	M41	X	-3.709	-3.709	0	%100
62	M41	Z	0	0	0	%100
63	M42	X	-3.709	-3.709	0	%100
64	M42	Z	0	0	0	%100
65	M43	X	-3.709	-3.709	0	%100
66	M43	Z	0	0	0	%100
67	M44	X	-3.709	-3.709	0	%100
68	M44	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	-1.973	-1.973	0	%100
2	LV	Z	-1.139	-1.139	0	%100
3	FH1	X	-1.973	-1.973	0	%100
4	FH1	Z	-1.139	-1.139	0	%100
5	MP5A	X	-6.52	-6.52	0	%100
6	MP5A	Z	-3.764	-3.764	0	%100
7	MP3A	X	-6.52	-6.52	0	%100
8	MP3A	Z	-3.764	-3.764	0	%100
9	MP2A	X	-6.52	-6.52	0	%100
10	MP2A	Z	-3.764	-3.764	0	%100
11	MP1A	X	-6.52	-6.52	0	%100
12	MP1A	Z	-3.764	-3.764	0	%100
13	SH1	X	-5.929	-5.929	0	%100
14	SH1	Z	-3.423	-3.423	0	%100
15	SH3	X	-.304	-.304	0	%100
16	SH3	Z	-.176	-.176	0	%100
17	SH2	X	-5.929	-5.929	0	%100
18	SH2	Z	-3.423	-3.423	0	%100
19	SH4	X	-.304	-.304	0	%100
20	SH4	Z	-.176	-.176	0	%100
21	V1	X	-4.657	-4.657	0	%100
22	V1	Z	-2.689	-2.689	0	%100
23	V2	X	-2.883	-2.883	0	%100
24	V2	Z	-1.664	-1.664	0	%100
25	V3	X	-2.883	-2.883	0	%100
26	V3	Z	-1.664	-1.664	0	%100
27	V6	X	-4.657	-4.657	0	%100
28	V6	Z	-2.689	-2.689	0	%100
29	V4	X	-2.883	-2.883	0	%100
30	V4	Z	-1.664	-1.664	0	%100
31	V5	X	-2.883	-2.883	0	%100
32	V5	Z	-1.664	-1.664	0	%100
33	D2	X	-2.782	-2.782	0	%100
34	D2	Z	-1.606	-1.606	0	%100
35	D1	X	-2.782	-2.782	0	%100
36	D1	Z	-1.606	-1.606	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
37	D3	X	-1.819	-1.819	0	%100
38	D3	Z	-1.05	-1.05	0	%100
39	D4	X	-1.819	-1.819	0	%100
40	D4	Z	-1.05	-1.05	0	%100
41	MP4A	X	-6.52	-6.52	0	%100
42	MP4A	Z	-3.764	-3.764	0	%100
43	M33	X	-1.984	-1.984	0	%100
44	M33	Z	-1.145	-1.145	0	%100
45	M33A	X	-1.239	-1.239	0	%100
46	M33A	Z	-.716	-.716	0	%100
47	M34	X	-1.239	-1.239	0	%100
48	M34	Z	-.716	-.716	0	%100
49	M35	X	-1.239	-1.239	0	%100
50	M35	Z	-.716	-.716	0	%100
51	M36	X	-5.186	-5.186	0	%100
52	M36	Z	-2.994	-2.994	0	%100
53	M37	X	-5.186	-5.186	0	%100
54	M37	Z	-2.994	-2.994	0	%100
55	M38	X	-5.186	-5.186	0	%100
56	M38	Z	-2.994	-2.994	0	%100
57	M39	X	-1.239	-1.239	0	%100
58	M39	Z	-.716	-.716	0	%100
59	M40	X	-1.239	-1.239	0	%100
60	M40	Z	-.716	-.716	0	%100
61	M41	X	-1.239	-1.239	0	%100
62	M41	Z	-.716	-.716	0	%100
63	M42	X	-5.186	-5.186	0	%100
64	M42	Z	-2.994	-2.994	0	%100
65	M43	X	-5.186	-5.186	0	%100
66	M43	Z	-2.994	-2.994	0	%100
67	M44	X	-5.186	-5.186	0	%100
68	M44	Z	-2.994	-2.994	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	-3.418	-3.418	0	%100
2	LV	Z	-5.92	-5.92	0	%100
3	FH1	X	-3.418	-3.418	0	%100
4	FH1	Z	-5.92	-5.92	0	%100
5	MP5A	X	-3.764	-3.764	0	%100
6	MP5A	Z	-6.52	-6.52	0	%100
7	MP3A	X	-3.764	-3.764	0	%100
8	MP3A	Z	-6.52	-6.52	0	%100
9	MP2A	X	-3.764	-3.764	0	%100
10	MP2A	Z	-6.52	-6.52	0	%100
11	MP1A	X	-3.764	-3.764	0	%100
12	MP1A	Z	-6.52	-6.52	0	%100
13	SH1	X	-3.589	-3.589	0	%100
14	SH1	Z	-6.216	-6.216	0	%100
15	SH3	X	-.341	-.341	0	%100
16	SH3	Z	-.591	-.591	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
17	SH2	X	-3.589	-3.589	0	%100
18	SH2	Z	-6.216	-6.216	0	%100
19	SH4	X	-.341	-.341	0	%100
20	SH4	Z	-.591	-.591	0	%100
21	V1	X	-2.689	-2.689	0	%100
22	V1	Z	-4.657	-4.657	0	%100
23	V2	X	-1.664	-1.664	0	%100
24	V2	Z	-2.883	-2.883	0	%100
25	V3	X	-1.664	-1.664	0	%100
26	V3	Z	-2.883	-2.883	0	%100
27	V6	X	-2.689	-2.689	0	%100
28	V6	Z	-4.657	-4.657	0	%100
29	V4	X	-1.664	-1.664	0	%100
30	V4	Z	-2.883	-2.883	0	%100
31	V5	X	-1.664	-1.664	0	%100
32	V5	Z	-2.883	-2.883	0	%100
33	D2	X	-1.634	-1.634	0	%100
34	D2	Z	-2.831	-2.831	0	%100
35	D1	X	-1.634	-1.634	0	%100
36	D1	Z	-2.831	-2.831	0	%100
37	D3	X	-1.079	-1.079	0	%100
38	D3	Z	-1.868	-1.868	0	%100
39	D4	X	-1.079	-1.079	0	%100
40	D4	Z	-1.868	-1.868	0	%100
41	MP4A	X	-3.764	-3.764	0	%100
42	MP4A	Z	-6.52	-6.52	0	%100
43	M33	X	-.014	-.014	0	%100
44	M33	Z	-.024	-.024	0	%100
45	M33A	X	-.716	-.716	0	%100
46	M33A	Z	-1.239	-1.239	0	%100
47	M34	X	-.716	-.716	0	%100
48	M34	Z	-1.239	-1.239	0	%100
49	M35	X	-.716	-.716	0	%100
50	M35	Z	-1.239	-1.239	0	%100
51	M36	X	-2.994	-2.994	0	%100
52	M36	Z	-5.186	-5.186	0	%100
53	M37	X	-2.994	-2.994	0	%100
54	M37	Z	-5.186	-5.186	0	%100
55	M38	X	-2.994	-2.994	0	%100
56	M38	Z	-5.186	-5.186	0	%100
57	M39	X	-.716	-.716	0	%100
58	M39	Z	-1.239	-1.239	0	%100
59	M40	X	-.716	-.716	0	%100
60	M40	Z	-1.239	-1.239	0	%100
61	M41	X	-.716	-.716	0	%100
62	M41	Z	-1.239	-1.239	0	%100
63	M42	X	-2.994	-2.994	0	%100
64	M42	Z	-5.186	-5.186	0	%100
65	M43	X	-2.994	-2.994	0	%100
66	M43	Z	-5.186	-5.186	0	%100
67	M44	X	-2.994	-2.994	0	%100
68	M44	Z	-5.186	-5.186	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	0	0	0	%100
2	LV	Z	-3.454	-3.454	0	%100
3	FH1	X	0	0	0	%100
4	FH1	Z	-3.454	-3.454	0	%100
5	MP5A	X	0	0	0	%100
6	MP5A	Z	-3.168	-3.168	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-3.168	-3.168	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	-3.179	-3.179	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	-3.168	-3.168	0	%100
13	SH1	X	0	0	0	%100
14	SH1	Z	-1.649	-1.649	0	%100
15	SH3	X	0	0	0	%100
16	SH3	Z	-1.649	-1.649	0	%100
17	SH2	X	0	0	0	%100
18	SH2	Z	-1.649	-1.649	0	%100
19	SH4	X	0	0	0	%100
20	SH4	Z	-1.649	-1.649	0	%100
21	V1	X	0	0	0	%100
22	V1	Z	-2.311	-2.311	0	%100
23	V2	X	0	0	0	%100
24	V2	Z	-1.955	-1.955	0	%100
25	V3	X	0	0	0	%100
26	V3	Z	-1.955	-1.955	0	%100
27	V6	X	0	0	0	%100
28	V6	Z	-2.311	-2.311	0	%100
29	V4	X	0	0	0	%100
30	V4	Z	-1.955	-1.955	0	%100
31	V5	X	0	0	0	%100
32	V5	Z	-1.955	-1.955	0	%100
33	D2	X	0	0	0	%100
34	D2	Z	-1.695	-1.695	0	%100
35	D1	X	0	0	0	%100
36	D1	Z	-1.695	-1.695	0	%100
37	D3	X	0	0	0	%100
38	D3	Z	-1.695	-1.695	0	%100
39	D4	X	0	0	0	%100
40	D4	Z	-1.695	-1.695	0	%100
41	MP4A	X	0	0	0	%100
42	MP4A	Z	-2.924	-2.924	0	%100
43	M33	X	0	0	0	%100
44	M33	Z	-.634	-.634	0	%100
45	M33A	X	0	0	0	%100
46	M33A	Z	-1.736	-1.736	0	%100
47	M34	X	0	0	0	%100
48	M34	Z	-1.736	-1.736	0	%100
49	M35	X	0	0	0	%100
50	M35	Z	-1.736	-1.736	0	%100
51	M36	X	0	0	0	%100
52	M36	Z	-1.736	-1.736	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
53	M37	X	0	0	0	%100
54	M37	Z	-1.736	-1.736	0	%100
55	M38	X	0	0	0	%100
56	M38	Z	-1.736	-1.736	0	%100
57	M39	X	0	0	0	%100
58	M39	Z	-1.736	-1.736	0	%100
59	M40	X	0	0	0	%100
60	M40	Z	-1.736	-1.736	0	%100
61	M41	X	0	0	0	%100
62	M41	Z	-1.736	-1.736	0	%100
63	M42	X	0	0	0	%100
64	M42	Z	-1.736	-1.736	0	%100
65	M43	X	0	0	0	%100
66	M43	Z	-1.736	-1.736	0	%100
67	M44	X	0	0	0	%100
68	M44	Z	-1.736	-1.736	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	1.295	1.295	0	%100
2	LV	Z	-2.243	-2.243	0	%100
3	FH1	X	1.295	1.295	0	%100
4	FH1	Z	-2.243	-2.243	0	%100
5	MP5A	X	1.584	1.584	0	%100
6	MP5A	Z	-2.744	-2.744	0	%100
7	MP3A	X	1.584	1.584	0	%100
8	MP3A	Z	-2.744	-2.744	0	%100
9	MP2A	X	1.589	1.589	0	%100
10	MP2A	Z	-2.753	-2.753	0	%100
11	MP1A	X	1.584	1.584	0	%100
12	MP1A	Z	-2.744	-2.744	0	%100
13	SH1	X	.137	.137	0	%100
14	SH1	Z	-.238	-.238	0	%100
15	SH3	X	1.445	1.445	0	%100
16	SH3	Z	-2.502	-2.502	0	%100
17	SH2	X	.137	.137	0	%100
18	SH2	Z	-.238	-.238	0	%100
19	SH4	X	1.445	1.445	0	%100
20	SH4	Z	-2.502	-2.502	0	%100
21	V1	X	1.155	1.155	0	%100
22	V1	Z	-2.001	-2.001	0	%100
23	V2	X	.977	.977	0	%100
24	V2	Z	-1.693	-1.693	0	%100
25	V3	X	.977	.977	0	%100
26	V3	Z	-1.693	-1.693	0	%100
27	V6	X	1.155	1.155	0	%100
28	V6	Z	-2.001	-2.001	0	%100
29	V4	X	.977	.977	0	%100
30	V4	Z	-1.693	-1.693	0	%100
31	V5	X	.977	.977	0	%100
32	V5	Z	-1.693	-1.693	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
33	D2	X	.667	.667	0	%100
34	D2	Z	-1.155	-1.155	0	%100
35	D1	X	.667	.667	0	%100
36	D1	Z	-1.155	-1.155	0	%100
37	D3	X	1.01	1.01	0	%100
38	D3	Z	-1.75	-1.75	0	%100
39	D4	X	1.01	1.01	0	%100
40	D4	Z	-1.75	-1.75	0	%100
41	MP4A	X	1.462	1.462	0	%100
42	MP4A	Z	-2.532	-2.532	0	%100
43	M33	X	1.106	1.106	0	%100
44	M33	Z	-1.915	-1.915	0	%100
45	M33A	X	1.066	1.066	0	%100
46	M33A	Z	-1.846	-1.846	0	%100
47	M34	X	1.066	1.066	0	%100
48	M34	Z	-1.846	-1.846	0	%100
49	M35	X	1.066	1.066	0	%100
50	M35	Z	-1.846	-1.846	0	%100
51	M36	X	.67	.67	0	%100
52	M36	Z	-1.161	-1.161	0	%100
53	M37	X	.67	.67	0	%100
54	M37	Z	-1.161	-1.161	0	%100
55	M38	X	.67	.67	0	%100
56	M38	Z	-1.161	-1.161	0	%100
57	M39	X	1.066	1.066	0	%100
58	M39	Z	-1.846	-1.846	0	%100
59	M40	X	1.066	1.066	0	%100
60	M40	Z	-1.846	-1.846	0	%100
61	M41	X	1.066	1.066	0	%100
62	M41	Z	-1.846	-1.846	0	%100
63	M42	X	.67	.67	0	%100
64	M42	Z	-1.161	-1.161	0	%100
65	M43	X	.67	.67	0	%100
66	M43	Z	-1.161	-1.161	0	%100
67	M44	X	.67	.67	0	%100
68	M44	Z	-1.161	-1.161	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	.748	.748	0	%100
2	LV	Z	-.432	-.432	0	%100
3	FH1	X	.748	.748	0	%100
4	FH1	Z	-.432	-.432	0	%100
5	MP5A	X	2.744	2.744	0	%100
6	MP5A	Z	-1.584	-1.584	0	%100
7	MP3A	X	2.744	2.744	0	%100
8	MP3A	Z	-1.584	-1.584	0	%100
9	MP2A	X	2.753	2.753	0	%100
10	MP2A	Z	-1.589	-1.589	0	%100
11	MP1A	X	2.744	2.744	0	%100
12	MP1A	Z	-1.584	-1.584	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
13	SH1	X	.123	.123	0	%100
14	SH1	Z	-.071	-.071	0	%100
15	SH3	X	2.387	2.387	0	%100
16	SH3	Z	-1.378	-1.378	0	%100
17	SH2	X	.123	.123	0	%100
18	SH2	Z	-.071	-.071	0	%100
19	SH4	X	2.387	2.387	0	%100
20	SH4	Z	-1.378	-1.378	0	%100
21	V1	X	2.001	2.001	0	%100
22	V1	Z	-1.155	-1.155	0	%100
23	V2	X	1.693	1.693	0	%100
24	V2	Z	-.977	-.977	0	%100
25	V3	X	1.693	1.693	0	%100
26	V3	Z	-.977	-.977	0	%100
27	V6	X	2.001	2.001	0	%100
28	V6	Z	-1.155	-1.155	0	%100
29	V4	X	1.693	1.693	0	%100
30	V4	Z	-.977	-.977	0	%100
31	V5	X	1.693	1.693	0	%100
32	V5	Z	-.977	-.977	0	%100
33	D2	X	1.125	1.125	0	%100
34	D2	Z	-.649	-.649	0	%100
35	D1	X	1.125	1.125	0	%100
36	D1	Z	-.649	-.649	0	%100
37	D3	X	1.72	1.72	0	%100
38	D3	Z	-.993	-.993	0	%100
39	D4	X	1.72	1.72	0	%100
40	D4	Z	-.993	-.993	0	%100
41	MP4A	X	2.532	2.532	0	%100
42	MP4A	Z	-1.462	-1.462	0	%100
43	M33	X	2.743	2.743	0	%100
44	M33	Z	-1.583	-1.583	0	%100
45	M33A	X	1.846	1.846	0	%100
46	M33A	Z	-1.066	-1.066	0	%100
47	M34	X	1.846	1.846	0	%100
48	M34	Z	-1.066	-1.066	0	%100
49	M35	X	1.846	1.846	0	%100
50	M35	Z	-1.066	-1.066	0	%100
51	M36	X	1.161	1.161	0	%100
52	M36	Z	-.67	-.67	0	%100
53	M37	X	1.161	1.161	0	%100
54	M37	Z	-.67	-.67	0	%100
55	M38	X	1.161	1.161	0	%100
56	M38	Z	-.67	-.67	0	%100
57	M39	X	1.846	1.846	0	%100
58	M39	Z	-1.066	-1.066	0	%100
59	M40	X	1.846	1.846	0	%100
60	M40	Z	-1.066	-1.066	0	%100
61	M41	X	1.846	1.846	0	%100
62	M41	Z	-1.066	-1.066	0	%100
63	M42	X	1.161	1.161	0	%100
64	M42	Z	-.67	-.67	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
65	M43	X	1.161	1.161	0	%100
66	M43	Z	-.67	-.67	0	%100
67	M44	X	1.161	1.161	0	%100
68	M44	Z	-.67	-.67	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	0	0	0	%100
2	LV	Z	0	0	0	%100
3	FH1	X	0	0	0	%100
4	FH1	Z	0	0	0	%100
5	MP5A	X	3.168	3.168	0	%100
6	MP5A	Z	0	0	0	%100
7	MP3A	X	3.168	3.168	0	%100
8	MP3A	Z	0	0	0	%100
9	MP2A	X	3.179	3.179	0	%100
10	MP2A	Z	0	0	0	%100
11	MP1A	X	3.168	3.168	0	%100
12	MP1A	Z	0	0	0	%100
13	SH1	X	1.382	1.382	0	%100
14	SH1	Z	0	0	0	%100
15	SH3	X	1.382	1.382	0	%100
16	SH3	Z	0	0	0	%100
17	SH2	X	1.382	1.382	0	%100
18	SH2	Z	0	0	0	%100
19	SH4	X	1.382	1.382	0	%100
20	SH4	Z	0	0	0	%100
21	V1	X	2.311	2.311	0	%100
22	V1	Z	0	0	0	%100
23	V2	X	1.955	1.955	0	%100
24	V2	Z	0	0	0	%100
25	V3	X	1.955	1.955	0	%100
26	V3	Z	0	0	0	%100
27	V6	X	2.311	2.311	0	%100
28	V6	Z	0	0	0	%100
29	V4	X	1.955	1.955	0	%100
30	V4	Z	0	0	0	%100
31	V5	X	1.955	1.955	0	%100
32	V5	Z	0	0	0	%100
33	D2	X	1.625	1.625	0	%100
34	D2	Z	0	0	0	%100
35	D1	X	1.625	1.625	0	%100
36	D1	Z	0	0	0	%100
37	D3	X	1.625	1.625	0	%100
38	D3	Z	0	0	0	%100
39	D4	X	1.625	1.625	0	%100
40	D4	Z	0	0	0	%100
41	MP4A	X	2.924	2.924	0	%100
42	MP4A	Z	0	0	0	%100
43	M33	X	2.545	2.545	0	%100
44	M33	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,F...	Start Location[ft,%]	End Location[ft,%]
45	M33A	X	1.736	1.736	0	%100
46	M33A	Z	0	0	0	%100
47	M34	X	1.736	1.736	0	%100
48	M34	Z	0	0	0	%100
49	M35	X	1.736	1.736	0	%100
50	M35	Z	0	0	0	%100
51	M36	X	1.736	1.736	0	%100
52	M36	Z	0	0	0	%100
53	M37	X	1.736	1.736	0	%100
54	M37	Z	0	0	0	%100
55	M38	X	1.736	1.736	0	%100
56	M38	Z	0	0	0	%100
57	M39	X	1.736	1.736	0	%100
58	M39	Z	0	0	0	%100
59	M40	X	1.736	1.736	0	%100
60	M40	Z	0	0	0	%100
61	M41	X	1.736	1.736	0	%100
62	M41	Z	0	0	0	%100
63	M42	X	1.736	1.736	0	%100
64	M42	Z	0	0	0	%100
65	M43	X	1.736	1.736	0	%100
66	M43	Z	0	0	0	%100
67	M44	X	1.736	1.736	0	%100
68	M44	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	.748	.748	0	%100
2	LV	Z	.432	.432	0	%100
3	FH1	X	.748	.748	0	%100
4	FH1	Z	.432	.432	0	%100
5	MP5A	X	2.744	2.744	0	%100
6	MP5A	Z	1.584	1.584	0	%100
7	MP3A	X	2.744	2.744	0	%100
8	MP3A	Z	1.584	1.584	0	%100
9	MP2A	X	2.753	2.753	0	%100
10	MP2A	Z	1.589	1.589	0	%100
11	MP1A	X	2.744	2.744	0	%100
12	MP1A	Z	1.584	1.584	0	%100
13	SH1	X	2.387	2.387	0	%100
14	SH1	Z	1.378	1.378	0	%100
15	SH3	X	.123	.123	0	%100
16	SH3	Z	.071	.071	0	%100
17	SH2	X	2.387	2.387	0	%100
18	SH2	Z	1.378	1.378	0	%100
19	SH4	X	.123	.123	0	%100
20	SH4	Z	.071	.071	0	%100
21	V1	X	2.001	2.001	0	%100
22	V1	Z	1.155	1.155	0	%100
23	V2	X	1.693	1.693	0	%100
24	V2	Z	.977	.977	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
25	V3	X	1.693	1.693	0	%100
26	V3	Z	.977	.977	0	%100
27	V6	X	2.001	2.001	0	%100
28	V6	Z	1.155	1.155	0	%100
29	V4	X	1.693	1.693	0	%100
30	V4	Z	.977	.977	0	%100
31	V5	X	1.693	1.693	0	%100
32	V5	Z	.977	.977	0	%100
33	D2	X	1.72	1.72	0	%100
34	D2	Z	.993	.993	0	%100
35	D1	X	1.72	1.72	0	%100
36	D1	Z	.993	.993	0	%100
37	D3	X	1.125	1.125	0	%100
38	D3	Z	.649	.649	0	%100
39	D4	X	1.125	1.125	0	%100
40	D4	Z	.649	.649	0	%100
41	MP4A	X	2.532	2.532	0	%100
42	MP4A	Z	1.462	1.462	0	%100
43	M33	X	.838	.838	0	%100
44	M33	Z	.484	.484	0	%100
45	M33A	X	1.161	1.161	0	%100
46	M33A	Z	.67	.67	0	%100
47	M34	X	1.161	1.161	0	%100
48	M34	Z	.67	.67	0	%100
49	M35	X	1.161	1.161	0	%100
50	M35	Z	.67	.67	0	%100
51	M36	X	1.846	1.846	0	%100
52	M36	Z	1.066	1.066	0	%100
53	M37	X	1.846	1.846	0	%100
54	M37	Z	1.066	1.066	0	%100
55	M38	X	1.846	1.846	0	%100
56	M38	Z	1.066	1.066	0	%100
57	M39	X	1.161	1.161	0	%100
58	M39	Z	.67	.67	0	%100
59	M40	X	1.161	1.161	0	%100
60	M40	Z	.67	.67	0	%100
61	M41	X	1.161	1.161	0	%100
62	M41	Z	.67	.67	0	%100
63	M42	X	1.846	1.846	0	%100
64	M42	Z	1.066	1.066	0	%100
65	M43	X	1.846	1.846	0	%100
66	M43	Z	1.066	1.066	0	%100
67	M44	X	1.846	1.846	0	%100
68	M44	Z	1.066	1.066	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	1.295	1.295	0	%100
2	LV	Z	2.243	2.243	0	%100
3	FH1	X	1.295	1.295	0	%100
4	FH1	Z	2.243	2.243	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
5	MP5A	X	1.584	1.584	0	%100
6	MP5A	Z	2.744	2.744	0	%100
7	MP3A	X	1.584	1.584	0	%100
8	MP3A	Z	2.744	2.744	0	%100
9	MP2A	X	1.589	1.589	0	%100
10	MP2A	Z	2.753	2.753	0	%100
11	MP1A	X	1.584	1.584	0	%100
12	MP1A	Z	2.744	2.744	0	%100
13	SH1	X	1.445	1.445	0	%100
14	SH1	Z	2.502	2.502	0	%100
15	SH3	X	.137	.137	0	%100
16	SH3	Z	.238	.238	0	%100
17	SH2	X	1.445	1.445	0	%100
18	SH2	Z	2.502	2.502	0	%100
19	SH4	X	.137	.137	0	%100
20	SH4	Z	.238	.238	0	%100
21	V1	X	1.155	1.155	0	%100
22	V1	Z	2.001	2.001	0	%100
23	V2	X	.977	.977	0	%100
24	V2	Z	1.693	1.693	0	%100
25	V3	X	.977	.977	0	%100
26	V3	Z	1.693	1.693	0	%100
27	V6	X	1.155	1.155	0	%100
28	V6	Z	2.001	2.001	0	%100
29	V4	X	.977	.977	0	%100
30	V4	Z	1.693	1.693	0	%100
31	V5	X	.977	.977	0	%100
32	V5	Z	1.693	1.693	0	%100
33	D2	X	1.01	1.01	0	%100
34	D2	Z	1.75	1.75	0	%100
35	D1	X	1.01	1.01	0	%100
36	D1	Z	1.75	1.75	0	%100
37	D3	X	.667	.667	0	%100
38	D3	Z	1.155	1.155	0	%100
39	D4	X	.667	.667	0	%100
40	D4	Z	1.155	1.155	0	%100
41	MP4A	X	1.462	1.462	0	%100
42	MP4A	Z	2.532	2.532	0	%100
43	M33	X	.006	.006	0	%100
44	M33	Z	.01	.01	0	%100
45	M33A	X	.67	.67	0	%100
46	M33A	Z	1.161	1.161	0	%100
47	M34	X	.67	.67	0	%100
48	M34	Z	1.161	1.161	0	%100
49	M35	X	.67	.67	0	%100
50	M35	Z	1.161	1.161	0	%100
51	M36	X	1.066	1.066	0	%100
52	M36	Z	1.846	1.846	0	%100
53	M37	X	1.066	1.066	0	%100
54	M37	Z	1.846	1.846	0	%100
55	M38	X	1.066	1.066	0	%100
56	M38	Z	1.846	1.846	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
57	M39	X	.67	.67	0	%100
58	M39	Z	1.161	1.161	0	%100
59	M40	X	.67	.67	0	%100
60	M40	Z	1.161	1.161	0	%100
61	M41	X	.67	.67	0	%100
62	M41	Z	1.161	1.161	0	%100
63	M42	X	1.066	1.066	0	%100
64	M42	Z	1.846	1.846	0	%100
65	M43	X	1.066	1.066	0	%100
66	M43	Z	1.846	1.846	0	%100
67	M44	X	1.066	1.066	0	%100
68	M44	Z	1.846	1.846	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	0	0	0	%100
2	LV	Z	3.454	3.454	0	%100
3	FH1	X	0	0	0	%100
4	FH1	Z	3.454	3.454	0	%100
5	MP5A	X	0	0	0	%100
6	MP5A	Z	3.168	3.168	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	3.168	3.168	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	3.179	3.179	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	3.168	3.168	0	%100
13	SH1	X	0	0	0	%100
14	SH1	Z	1.649	1.649	0	%100
15	SH3	X	0	0	0	%100
16	SH3	Z	1.649	1.649	0	%100
17	SH2	X	0	0	0	%100
18	SH2	Z	1.649	1.649	0	%100
19	SH4	X	0	0	0	%100
20	SH4	Z	1.649	1.649	0	%100
21	V1	X	0	0	0	%100
22	V1	Z	2.311	2.311	0	%100
23	V2	X	0	0	0	%100
24	V2	Z	1.955	1.955	0	%100
25	V3	X	0	0	0	%100
26	V3	Z	1.955	1.955	0	%100
27	V6	X	0	0	0	%100
28	V6	Z	2.311	2.311	0	%100
29	V4	X	0	0	0	%100
30	V4	Z	1.955	1.955	0	%100
31	V5	X	0	0	0	%100
32	V5	Z	1.955	1.955	0	%100
33	D2	X	0	0	0	%100
34	D2	Z	1.695	1.695	0	%100
35	D1	X	0	0	0	%100
36	D1	Z	1.695	1.695	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
37	D3	X	0	0	0	%100
38	D3	Z	1.695	1.695	0	%100
39	D4	X	0	0	0	%100
40	D4	Z	1.695	1.695	0	%100
41	MP4A	X	0	0	0	%100
42	MP4A	Z	2.924	2.924	0	%100
43	M33	X	0	0	0	%100
44	M33	Z	.634	.634	0	%100
45	M33A	X	0	0	0	%100
46	M33A	Z	1.736	1.736	0	%100
47	M34	X	0	0	0	%100
48	M34	Z	1.736	1.736	0	%100
49	M35	X	0	0	0	%100
50	M35	Z	1.736	1.736	0	%100
51	M36	X	0	0	0	%100
52	M36	Z	1.736	1.736	0	%100
53	M37	X	0	0	0	%100
54	M37	Z	1.736	1.736	0	%100
55	M38	X	0	0	0	%100
56	M38	Z	1.736	1.736	0	%100
57	M39	X	0	0	0	%100
58	M39	Z	1.736	1.736	0	%100
59	M40	X	0	0	0	%100
60	M40	Z	1.736	1.736	0	%100
61	M41	X	0	0	0	%100
62	M41	Z	1.736	1.736	0	%100
63	M42	X	0	0	0	%100
64	M42	Z	1.736	1.736	0	%100
65	M43	X	0	0	0	%100
66	M43	Z	1.736	1.736	0	%100
67	M44	X	0	0	0	%100
68	M44	Z	1.736	1.736	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	-1.295	-1.295	0	%100
2	LV	Z	2.243	2.243	0	%100
3	FH1	X	-1.295	-1.295	0	%100
4	FH1	Z	2.243	2.243	0	%100
5	MP5A	X	-1.584	-1.584	0	%100
6	MP5A	Z	2.744	2.744	0	%100
7	MP3A	X	-1.584	-1.584	0	%100
8	MP3A	Z	2.744	2.744	0	%100
9	MP2A	X	-1.589	-1.589	0	%100
10	MP2A	Z	2.753	2.753	0	%100
11	MP1A	X	-1.584	-1.584	0	%100
12	MP1A	Z	2.744	2.744	0	%100
13	SH1	X	-.137	-.137	0	%100
14	SH1	Z	.238	.238	0	%100
15	SH3	X	-1.445	-1.445	0	%100
16	SH3	Z	2.502	2.502	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
17	SH2	X	-.137	-.137	0	%100
18	SH2	Z	.238	.238	0	%100
19	SH4	X	-1.445	-1.445	0	%100
20	SH4	Z	2.502	2.502	0	%100
21	V1	X	-1.155	-1.155	0	%100
22	V1	Z	2.001	2.001	0	%100
23	V2	X	-.977	-.977	0	%100
24	V2	Z	1.693	1.693	0	%100
25	V3	X	-.977	-.977	0	%100
26	V3	Z	1.693	1.693	0	%100
27	V6	X	-1.155	-1.155	0	%100
28	V6	Z	2.001	2.001	0	%100
29	V4	X	-.977	-.977	0	%100
30	V4	Z	1.693	1.693	0	%100
31	V5	X	-.977	-.977	0	%100
32	V5	Z	1.693	1.693	0	%100
33	D2	X	-.667	-.667	0	%100
34	D2	Z	1.155	1.155	0	%100
35	D1	X	-.667	-.667	0	%100
36	D1	Z	1.155	1.155	0	%100
37	D3	X	-1.01	-1.01	0	%100
38	D3	Z	1.75	1.75	0	%100
39	D4	X	-1.01	-1.01	0	%100
40	D4	Z	1.75	1.75	0	%100
41	MP4A	X	-1.462	-1.462	0	%100
42	MP4A	Z	2.532	2.532	0	%100
43	M33	X	-1.106	-1.106	0	%100
44	M33	Z	1.915	1.915	0	%100
45	M33A	X	-1.066	-1.066	0	%100
46	M33A	Z	1.846	1.846	0	%100
47	M34	X	-1.066	-1.066	0	%100
48	M34	Z	1.846	1.846	0	%100
49	M35	X	-1.066	-1.066	0	%100
50	M35	Z	1.846	1.846	0	%100
51	M36	X	-.67	-.67	0	%100
52	M36	Z	1.161	1.161	0	%100
53	M37	X	-.67	-.67	0	%100
54	M37	Z	1.161	1.161	0	%100
55	M38	X	-.67	-.67	0	%100
56	M38	Z	1.161	1.161	0	%100
57	M39	X	-1.066	-1.066	0	%100
58	M39	Z	1.846	1.846	0	%100
59	M40	X	-1.066	-1.066	0	%100
60	M40	Z	1.846	1.846	0	%100
61	M41	X	-1.066	-1.066	0	%100
62	M41	Z	1.846	1.846	0	%100
63	M42	X	-.67	-.67	0	%100
64	M42	Z	1.161	1.161	0	%100
65	M43	X	-.67	-.67	0	%100
66	M43	Z	1.161	1.161	0	%100
67	M44	X	-.67	-.67	0	%100
68	M44	Z	1.161	1.161	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	-.748	-.748	0	%100
2	LV	Z	.432	.432	0	%100
3	FH1	X	-.748	-.748	0	%100
4	FH1	Z	.432	.432	0	%100
5	MP5A	X	-2.744	-2.744	0	%100
6	MP5A	Z	1.584	1.584	0	%100
7	MP3A	X	-2.744	-2.744	0	%100
8	MP3A	Z	1.584	1.584	0	%100
9	MP2A	X	-2.753	-2.753	0	%100
10	MP2A	Z	1.589	1.589	0	%100
11	MP1A	X	-2.744	-2.744	0	%100
12	MP1A	Z	1.584	1.584	0	%100
13	SH1	X	-.123	-.123	0	%100
14	SH1	Z	.071	.071	0	%100
15	SH3	X	-2.387	-2.387	0	%100
16	SH3	Z	1.378	1.378	0	%100
17	SH2	X	-.123	-.123	0	%100
18	SH2	Z	.071	.071	0	%100
19	SH4	X	-2.387	-2.387	0	%100
20	SH4	Z	1.378	1.378	0	%100
21	V1	X	-2.001	-2.001	0	%100
22	V1	Z	1.155	1.155	0	%100
23	V2	X	-1.693	-1.693	0	%100
24	V2	Z	.977	.977	0	%100
25	V3	X	-1.693	-1.693	0	%100
26	V3	Z	.977	.977	0	%100
27	V6	X	-2.001	-2.001	0	%100
28	V6	Z	1.155	1.155	0	%100
29	V4	X	-1.693	-1.693	0	%100
30	V4	Z	.977	.977	0	%100
31	V5	X	-1.693	-1.693	0	%100
32	V5	Z	.977	.977	0	%100
33	D2	X	-1.125	-1.125	0	%100
34	D2	Z	.649	.649	0	%100
35	D1	X	-1.125	-1.125	0	%100
36	D1	Z	.649	.649	0	%100
37	D3	X	-1.72	-1.72	0	%100
38	D3	Z	.993	.993	0	%100
39	D4	X	-1.72	-1.72	0	%100
40	D4	Z	.993	.993	0	%100
41	MP4A	X	-2.532	-2.532	0	%100
42	MP4A	Z	1.462	1.462	0	%100
43	M33	X	-2.743	-2.743	0	%100
44	M33	Z	1.583	1.583	0	%100
45	M33A	X	-1.846	-1.846	0	%100
46	M33A	Z	1.066	1.066	0	%100
47	M34	X	-1.846	-1.846	0	%100
48	M34	Z	1.066	1.066	0	%100
49	M35	X	-1.846	-1.846	0	%100
50	M35	Z	1.066	1.066	0	%100
51	M36	X	-1.161	-1.161	0	%100
52	M36	Z	.67	.67	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
53	M37	X	-1.161	-1.161	0	%100
54	M37	Z	.67	.67	0	%100
55	M38	X	-1.161	-1.161	0	%100
56	M38	Z	.67	.67	0	%100
57	M39	X	-1.846	-1.846	0	%100
58	M39	Z	1.066	1.066	0	%100
59	M40	X	-1.846	-1.846	0	%100
60	M40	Z	1.066	1.066	0	%100
61	M41	X	-1.846	-1.846	0	%100
62	M41	Z	1.066	1.066	0	%100
63	M42	X	-1.161	-1.161	0	%100
64	M42	Z	.67	.67	0	%100
65	M43	X	-1.161	-1.161	0	%100
66	M43	Z	.67	.67	0	%100
67	M44	X	-1.161	-1.161	0	%100
68	M44	Z	.67	.67	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	0	0	0	%100
2	LV	Z	0	0	0	%100
3	FH1	X	0	0	0	%100
4	FH1	Z	0	0	0	%100
5	MP5A	X	-3.168	-3.168	0	%100
6	MP5A	Z	0	0	0	%100
7	MP3A	X	-3.168	-3.168	0	%100
8	MP3A	Z	0	0	0	%100
9	MP2A	X	-3.179	-3.179	0	%100
10	MP2A	Z	0	0	0	%100
11	MP1A	X	-3.168	-3.168	0	%100
12	MP1A	Z	0	0	0	%100
13	SH1	X	-1.382	-1.382	0	%100
14	SH1	Z	0	0	0	%100
15	SH3	X	-1.382	-1.382	0	%100
16	SH3	Z	0	0	0	%100
17	SH2	X	-1.382	-1.382	0	%100
18	SH2	Z	0	0	0	%100
19	SH4	X	-1.382	-1.382	0	%100
20	SH4	Z	0	0	0	%100
21	V1	X	-2.311	-2.311	0	%100
22	V1	Z	0	0	0	%100
23	V2	X	-1.955	-1.955	0	%100
24	V2	Z	0	0	0	%100
25	V3	X	-1.955	-1.955	0	%100
26	V3	Z	0	0	0	%100
27	V6	X	-2.311	-2.311	0	%100
28	V6	Z	0	0	0	%100
29	V4	X	-1.955	-1.955	0	%100
30	V4	Z	0	0	0	%100
31	V5	X	-1.955	-1.955	0	%100
32	V5	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,F...	Start Location[ft,%]	End Location[ft,%]
33	D2	X	-1.625	-1.625	0	%100
34	D2	Z	0	0	0	%100
35	D1	X	-1.625	-1.625	0	%100
36	D1	Z	0	0	0	%100
37	D3	X	-1.625	-1.625	0	%100
38	D3	Z	0	0	0	%100
39	D4	X	-1.625	-1.625	0	%100
40	D4	Z	0	0	0	%100
41	MP4A	X	-2.924	-2.924	0	%100
42	MP4A	Z	0	0	0	%100
43	M33	X	-2.545	-2.545	0	%100
44	M33	Z	0	0	0	%100
45	M33A	X	-1.736	-1.736	0	%100
46	M33A	Z	0	0	0	%100
47	M34	X	-1.736	-1.736	0	%100
48	M34	Z	0	0	0	%100
49	M35	X	-1.736	-1.736	0	%100
50	M35	Z	0	0	0	%100
51	M36	X	-1.736	-1.736	0	%100
52	M36	Z	0	0	0	%100
53	M37	X	-1.736	-1.736	0	%100
54	M37	Z	0	0	0	%100
55	M38	X	-1.736	-1.736	0	%100
56	M38	Z	0	0	0	%100
57	M39	X	-1.736	-1.736	0	%100
58	M39	Z	0	0	0	%100
59	M40	X	-1.736	-1.736	0	%100
60	M40	Z	0	0	0	%100
61	M41	X	-1.736	-1.736	0	%100
62	M41	Z	0	0	0	%100
63	M42	X	-1.736	-1.736	0	%100
64	M42	Z	0	0	0	%100
65	M43	X	-1.736	-1.736	0	%100
66	M43	Z	0	0	0	%100
67	M44	X	-1.736	-1.736	0	%100
68	M44	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	-.748	-.748	0	%100
2	LV	Z	-.432	-.432	0	%100
3	FH1	X	-.748	-.748	0	%100
4	FH1	Z	-.432	-.432	0	%100
5	MP5A	X	-2.744	-2.744	0	%100
6	MP5A	Z	-1.584	-1.584	0	%100
7	MP3A	X	-2.744	-2.744	0	%100
8	MP3A	Z	-1.584	-1.584	0	%100
9	MP2A	X	-2.753	-2.753	0	%100
10	MP2A	Z	-1.589	-1.589	0	%100
11	MP1A	X	-2.744	-2.744	0	%100
12	MP1A	Z	-1.584	-1.584	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
13	SH1	X	-2.387	-2.387	0	%100
14	SH1	Z	-1.378	-1.378	0	%100
15	SH3	X	-.123	-.123	0	%100
16	SH3	Z	-.071	-.071	0	%100
17	SH2	X	-2.387	-2.387	0	%100
18	SH2	Z	-1.378	-1.378	0	%100
19	SH4	X	-.123	-.123	0	%100
20	SH4	Z	-.071	-.071	0	%100
21	V1	X	-2.001	-2.001	0	%100
22	V1	Z	-1.155	-1.155	0	%100
23	V2	X	-1.693	-1.693	0	%100
24	V2	Z	-.977	-.977	0	%100
25	V3	X	-1.693	-1.693	0	%100
26	V3	Z	-.977	-.977	0	%100
27	V6	X	-2.001	-2.001	0	%100
28	V6	Z	-1.155	-1.155	0	%100
29	V4	X	-1.693	-1.693	0	%100
30	V4	Z	-.977	-.977	0	%100
31	V5	X	-1.693	-1.693	0	%100
32	V5	Z	-.977	-.977	0	%100
33	D2	X	-1.72	-1.72	0	%100
34	D2	Z	-.993	-.993	0	%100
35	D1	X	-1.72	-1.72	0	%100
36	D1	Z	-.993	-.993	0	%100
37	D3	X	-1.125	-1.125	0	%100
38	D3	Z	-.649	-.649	0	%100
39	D4	X	-1.125	-1.125	0	%100
40	D4	Z	-.649	-.649	0	%100
41	MP4A	X	-2.532	-2.532	0	%100
42	MP4A	Z	-1.462	-1.462	0	%100
43	M33	X	-.838	-.838	0	%100
44	M33	Z	-.484	-.484	0	%100
45	M33A	X	-1.161	-1.161	0	%100
46	M33A	Z	-.67	-.67	0	%100
47	M34	X	-1.161	-1.161	0	%100
48	M34	Z	-.67	-.67	0	%100
49	M35	X	-1.161	-1.161	0	%100
50	M35	Z	-.67	-.67	0	%100
51	M36	X	-1.846	-1.846	0	%100
52	M36	Z	-1.066	-1.066	0	%100
53	M37	X	-1.846	-1.846	0	%100
54	M37	Z	-1.066	-1.066	0	%100
55	M38	X	-1.846	-1.846	0	%100
56	M38	Z	-1.066	-1.066	0	%100
57	M39	X	-1.161	-1.161	0	%100
58	M39	Z	-.67	-.67	0	%100
59	M40	X	-1.161	-1.161	0	%100
60	M40	Z	-.67	-.67	0	%100
61	M41	X	-1.161	-1.161	0	%100
62	M41	Z	-.67	-.67	0	%100
63	M42	X	-1.846	-1.846	0	%100
64	M42	Z	-1.066	-1.066	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
65	M43	X	-1.846	-1.846	0	%100
66	M43	Z	-1.066	-1.066	0	%100
67	M44	X	-1.846	-1.846	0	%100
68	M44	Z	-1.066	-1.066	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	-1.295	-1.295	0	%100
2	LV	Z	-2.243	-2.243	0	%100
3	FH1	X	-1.295	-1.295	0	%100
4	FH1	Z	-2.243	-2.243	0	%100
5	MP5A	X	-1.584	-1.584	0	%100
6	MP5A	Z	-2.744	-2.744	0	%100
7	MP3A	X	-1.584	-1.584	0	%100
8	MP3A	Z	-2.744	-2.744	0	%100
9	MP2A	X	-1.589	-1.589	0	%100
10	MP2A	Z	-2.753	-2.753	0	%100
11	MP1A	X	-1.584	-1.584	0	%100
12	MP1A	Z	-2.744	-2.744	0	%100
13	SH1	X	-1.445	-1.445	0	%100
14	SH1	Z	-2.502	-2.502	0	%100
15	SH3	X	-.137	-.137	0	%100
16	SH3	Z	-.238	-.238	0	%100
17	SH2	X	-1.445	-1.445	0	%100
18	SH2	Z	-2.502	-2.502	0	%100
19	SH4	X	-.137	-.137	0	%100
20	SH4	Z	-.238	-.238	0	%100
21	V1	X	-1.155	-1.155	0	%100
22	V1	Z	-2.001	-2.001	0	%100
23	V2	X	-.977	-.977	0	%100
24	V2	Z	-1.693	-1.693	0	%100
25	V3	X	-.977	-.977	0	%100
26	V3	Z	-1.693	-1.693	0	%100
27	V6	X	-1.155	-1.155	0	%100
28	V6	Z	-2.001	-2.001	0	%100
29	V4	X	-.977	-.977	0	%100
30	V4	Z	-1.693	-1.693	0	%100
31	V5	X	-.977	-.977	0	%100
32	V5	Z	-1.693	-1.693	0	%100
33	D2	X	-1.01	-1.01	0	%100
34	D2	Z	-1.75	-1.75	0	%100
35	D1	X	-1.01	-1.01	0	%100
36	D1	Z	-1.75	-1.75	0	%100
37	D3	X	-.667	-.667	0	%100
38	D3	Z	-1.155	-1.155	0	%100
39	D4	X	-.667	-.667	0	%100
40	D4	Z	-1.155	-1.155	0	%100
41	MP4A	X	-1.462	-1.462	0	%100
42	MP4A	Z	-2.532	-2.532	0	%100
43	M33	X	-.006	-.006	0	%100
44	M33	Z	-.01	-.01	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
45	M33A	X	-.67	-.67	0	%100
46	M33A	Z	-1.161	-1.161	0	%100
47	M34	X	-.67	-.67	0	%100
48	M34	Z	-1.161	-1.161	0	%100
49	M35	X	-.67	-.67	0	%100
50	M35	Z	-1.161	-1.161	0	%100
51	M36	X	-1.066	-1.066	0	%100
52	M36	Z	-1.846	-1.846	0	%100
53	M37	X	-1.066	-1.066	0	%100
54	M37	Z	-1.846	-1.846	0	%100
55	M38	X	-1.066	-1.066	0	%100
56	M38	Z	-1.846	-1.846	0	%100
57	M39	X	-.67	-.67	0	%100
58	M39	Z	-1.161	-1.161	0	%100
59	M40	X	-.67	-.67	0	%100
60	M40	Z	-1.161	-1.161	0	%100
61	M41	X	-.67	-.67	0	%100
62	M41	Z	-1.161	-1.161	0	%100
63	M42	X	-1.066	-1.066	0	%100
64	M42	Z	-1.846	-1.846	0	%100
65	M43	X	-1.066	-1.066	0	%100
66	M43	Z	-1.846	-1.846	0	%100
67	M44	X	-1.066	-1.066	0	%100
68	M44	Z	-1.846	-1.846	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	0	0	0	%100
2	LV	Z	-.57	-.57	0	%100
3	FH1	X	0	0	0	%100
4	FH1	Z	-.57	-.57	0	%100
5	MP5A	X	0	0	0	%100
6	MP5A	Z	-.471	-.471	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-.471	-.471	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	-.471	-.471	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	-.471	-.471	0	%100
13	SH1	X	0	0	0	%100
14	SH1	Z	-.256	-.256	0	%100
15	SH3	X	0	0	0	%100
16	SH3	Z	-.256	-.256	0	%100
17	SH2	X	0	0	0	%100
18	SH2	Z	-.256	-.256	0	%100
19	SH4	X	0	0	0	%100
20	SH4	Z	-.256	-.256	0	%100
21	V1	X	0	0	0	%100
22	V1	Z	-.336	-.336	0	%100
23	V2	X	0	0	0	%100
24	V2	Z	-.208	-.208	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
25	V3	X	0	0	0	%100
26	V3	Z	-.208	-.208	0	%100
27	V6	X	0	0	0	%100
28	V6	Z	-.336	-.336	0	%100
29	V4	X	0	0	0	%100
30	V4	Z	-.208	-.208	0	%100
31	V5	X	0	0	0	%100
32	V5	Z	-.208	-.208	0	%100
33	D2	X	0	0	0	%100
34	D2	Z	-.171	-.171	0	%100
35	D1	X	0	0	0	%100
36	D1	Z	-.171	-.171	0	%100
37	D3	X	0	0	0	%100
38	D3	Z	-.171	-.171	0	%100
39	D4	X	0	0	0	%100
40	D4	Z	-.171	-.171	0	%100
41	MP4A	X	0	0	0	%100
42	MP4A	Z	-.471	-.471	0	%100
43	M33	X	0	0	0	%100
44	M33	Z	-.094	-.094	0	%100
45	M33A	X	0	0	0	%100
46	M33A	Z	-.232	-.232	0	%100
47	M34	X	0	0	0	%100
48	M34	Z	-.232	-.232	0	%100
49	M35	X	0	0	0	%100
50	M35	Z	-.232	-.232	0	%100
51	M36	X	0	0	0	%100
52	M36	Z	-.232	-.232	0	%100
53	M37	X	0	0	0	%100
54	M37	Z	-.232	-.232	0	%100
55	M38	X	0	0	0	%100
56	M38	Z	-.232	-.232	0	%100
57	M39	X	0	0	0	%100
58	M39	Z	-.232	-.232	0	%100
59	M40	X	0	0	0	%100
60	M40	Z	-.232	-.232	0	%100
61	M41	X	0	0	0	%100
62	M41	Z	-.232	-.232	0	%100
63	M42	X	0	0	0	%100
64	M42	Z	-.232	-.232	0	%100
65	M43	X	0	0	0	%100
66	M43	Z	-.232	-.232	0	%100
67	M44	X	0	0	0	%100
68	M44	Z	-.232	-.232	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	.214	.214	0	%100
2	LV	Z	-.37	-.37	0	%100
3	FH1	X	.214	.214	0	%100
4	FH1	Z	-.37	-.37	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
5	MP5A	X	.235	.235	0	%100
6	MP5A	Z	-.408	-.408	0	%100
7	MP3A	X	.235	.235	0	%100
8	MP3A	Z	-.408	-.408	0	%100
9	MP2A	X	.235	.235	0	%100
10	MP2A	Z	-.408	-.408	0	%100
11	MP1A	X	.235	.235	0	%100
12	MP1A	Z	-.408	-.408	0	%100
13	SH1	X	.021	.021	0	%100
14	SH1	Z	-.037	-.037	0	%100
15	SH3	X	.224	.224	0	%100
16	SH3	Z	-.388	-.388	0	%100
17	SH2	X	.021	.021	0	%100
18	SH2	Z	-.037	-.037	0	%100
19	SH4	X	.224	.224	0	%100
20	SH4	Z	-.388	-.388	0	%100
21	V1	X	.168	.168	0	%100
22	V1	Z	-.291	-.291	0	%100
23	V2	X	.104	.104	0	%100
24	V2	Z	-.18	-.18	0	%100
25	V3	X	.104	.104	0	%100
26	V3	Z	-.18	-.18	0	%100
27	V6	X	.168	.168	0	%100
28	V6	Z	-.291	-.291	0	%100
29	V4	X	.104	.104	0	%100
30	V4	Z	-.18	-.18	0	%100
31	V5	X	.104	.104	0	%100
32	V5	Z	-.18	-.18	0	%100
33	D2	X	.067	.067	0	%100
34	D2	Z	-.117	-.117	0	%100
35	D1	X	.067	.067	0	%100
36	D1	Z	-.117	-.117	0	%100
37	D3	X	.102	.102	0	%100
38	D3	Z	-.177	-.177	0	%100
39	D4	X	.102	.102	0	%100
40	D4	Z	-.177	-.177	0	%100
41	MP4A	X	.235	.235	0	%100
42	MP4A	Z	-.408	-.408	0	%100
43	M33	X	.164	.164	0	%100
44	M33	Z	-.284	-.284	0	%100
45	M33A	X	.187	.187	0	%100
46	M33A	Z	-.324	-.324	0	%100
47	M34	X	.187	.187	0	%100
48	M34	Z	-.324	-.324	0	%100
49	M35	X	.187	.187	0	%100
50	M35	Z	-.324	-.324	0	%100
51	M36	X	.045	.045	0	%100
52	M36	Z	-.077	-.077	0	%100
53	M37	X	.045	.045	0	%100
54	M37	Z	-.077	-.077	0	%100
55	M38	X	.045	.045	0	%100
56	M38	Z	-.077	-.077	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
57	M39	X	.187	.187	0	%100
58	M39	Z	-.324	-.324	0	%100
59	M40	X	.187	.187	0	%100
60	M40	Z	-.324	-.324	0	%100
61	M41	X	.187	.187	0	%100
62	M41	Z	-.324	-.324	0	%100
63	M42	X	.045	.045	0	%100
64	M42	Z	-.077	-.077	0	%100
65	M43	X	.045	.045	0	%100
66	M43	Z	-.077	-.077	0	%100
67	M44	X	.045	.045	0	%100
68	M44	Z	-.077	-.077	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	.123	.123	0	%100
2	LV	Z	-.071	-.071	0	%100
3	FH1	X	.123	.123	0	%100
4	FH1	Z	-.071	-.071	0	%100
5	MP5A	X	.408	.408	0	%100
6	MP5A	Z	-.235	-.235	0	%100
7	MP3A	X	.408	.408	0	%100
8	MP3A	Z	-.235	-.235	0	%100
9	MP2A	X	.408	.408	0	%100
10	MP2A	Z	-.235	-.235	0	%100
11	MP1A	X	.408	.408	0	%100
12	MP1A	Z	-.235	-.235	0	%100
13	SH1	X	.019	.019	0	%100
14	SH1	Z	-.011	-.011	0	%100
15	SH3	X	.371	.371	0	%100
16	SH3	Z	-.214	-.214	0	%100
17	SH2	X	.019	.019	0	%100
18	SH2	Z	-.011	-.011	0	%100
19	SH4	X	.371	.371	0	%100
20	SH4	Z	-.214	-.214	0	%100
21	V1	X	.291	.291	0	%100
22	V1	Z	-.168	-.168	0	%100
23	V2	X	.18	.18	0	%100
24	V2	Z	-.104	-.104	0	%100
25	V3	X	.18	.18	0	%100
26	V3	Z	-.104	-.104	0	%100
27	V6	X	.291	.291	0	%100
28	V6	Z	-.168	-.168	0	%100
29	V4	X	.18	.18	0	%100
30	V4	Z	-.104	-.104	0	%100
31	V5	X	.18	.18	0	%100
32	V5	Z	-.104	-.104	0	%100
33	D2	X	.114	.114	0	%100
34	D2	Z	-.066	-.066	0	%100
35	D1	X	.114	.114	0	%100
36	D1	Z	-.066	-.066	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
37	D3	X	.174	.174	0	%100
38	D3	Z	-.1	-.1	0	%100
39	D4	X	.174	.174	0	%100
40	D4	Z	-.1	-.1	0	%100
41	MP4A	X	.408	.408	0	%100
42	MP4A	Z	-.235	-.235	0	%100
43	M33	X	.406	.406	0	%100
44	M33	Z	-.234	-.234	0	%100
45	M33A	X	.324	.324	0	%100
46	M33A	Z	-.187	-.187	0	%100
47	M34	X	.324	.324	0	%100
48	M34	Z	-.187	-.187	0	%100
49	M35	X	.324	.324	0	%100
50	M35	Z	-.187	-.187	0	%100
51	M36	X	.077	.077	0	%100
52	M36	Z	-.045	-.045	0	%100
53	M37	X	.077	.077	0	%100
54	M37	Z	-.045	-.045	0	%100
55	M38	X	.077	.077	0	%100
56	M38	Z	-.045	-.045	0	%100
57	M39	X	.324	.324	0	%100
58	M39	Z	-.187	-.187	0	%100
59	M40	X	.324	.324	0	%100
60	M40	Z	-.187	-.187	0	%100
61	M41	X	.324	.324	0	%100
62	M41	Z	-.187	-.187	0	%100
63	M42	X	.077	.077	0	%100
64	M42	Z	-.045	-.045	0	%100
65	M43	X	.077	.077	0	%100
66	M43	Z	-.045	-.045	0	%100
67	M44	X	.077	.077	0	%100
68	M44	Z	-.045	-.045	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	0	0	0	%100
2	LV	Z	0	0	0	%100
3	FH1	X	0	0	0	%100
4	FH1	Z	0	0	0	%100
5	MP5A	X	.471	.471	0	%100
6	MP5A	Z	0	0	0	%100
7	MP3A	X	.471	.471	0	%100
8	MP3A	Z	0	0	0	%100
9	MP2A	X	.471	.471	0	%100
10	MP2A	Z	0	0	0	%100
11	MP1A	X	.471	.471	0	%100
12	MP1A	Z	0	0	0	%100
13	SH1	X	.215	.215	0	%100
14	SH1	Z	0	0	0	%100
15	SH3	X	.215	.215	0	%100
16	SH3	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
17	SH2	X	.215	.215	0	%100
18	SH2	Z	0	0	0	%100
19	SH4	X	.215	.215	0	%100
20	SH4	Z	0	0	0	%100
21	V1	X	.336	.336	0	%100
22	V1	Z	0	0	0	%100
23	V2	X	.208	.208	0	%100
24	V2	Z	0	0	0	%100
25	V3	X	.208	.208	0	%100
26	V3	Z	0	0	0	%100
27	V6	X	.336	.336	0	%100
28	V6	Z	0	0	0	%100
29	V4	X	.208	.208	0	%100
30	V4	Z	0	0	0	%100
31	V5	X	.208	.208	0	%100
32	V5	Z	0	0	0	%100
33	D2	X	.164	.164	0	%100
34	D2	Z	0	0	0	%100
35	D1	X	.164	.164	0	%100
36	D1	Z	0	0	0	%100
37	D3	X	.164	.164	0	%100
38	D3	Z	0	0	0	%100
39	D4	X	.164	.164	0	%100
40	D4	Z	0	0	0	%100
41	MP4A	X	.471	.471	0	%100
42	MP4A	Z	0	0	0	%100
43	M33	X	.377	.377	0	%100
44	M33	Z	0	0	0	%100
45	M33A	X	.232	.232	0	%100
46	M33A	Z	0	0	0	%100
47	M34	X	.232	.232	0	%100
48	M34	Z	0	0	0	%100
49	M35	X	.232	.232	0	%100
50	M35	Z	0	0	0	%100
51	M36	X	.232	.232	0	%100
52	M36	Z	0	0	0	%100
53	M37	X	.232	.232	0	%100
54	M37	Z	0	0	0	%100
55	M38	X	.232	.232	0	%100
56	M38	Z	0	0	0	%100
57	M39	X	.232	.232	0	%100
58	M39	Z	0	0	0	%100
59	M40	X	.232	.232	0	%100
60	M40	Z	0	0	0	%100
61	M41	X	.232	.232	0	%100
62	M41	Z	0	0	0	%100
63	M42	X	.232	.232	0	%100
64	M42	Z	0	0	0	%100
65	M43	X	.232	.232	0	%100
66	M43	Z	0	0	0	%100
67	M44	X	.232	.232	0	%100
68	M44	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	.123	.123	0	%100
2	LV	Z	.071	.071	0	%100
3	FH1	X	.123	.123	0	%100
4	FH1	Z	.071	.071	0	%100
5	MP5A	X	.408	.408	0	%100
6	MP5A	Z	.235	.235	0	%100
7	MP3A	X	.408	.408	0	%100
8	MP3A	Z	.235	.235	0	%100
9	MP2A	X	.408	.408	0	%100
10	MP2A	Z	.235	.235	0	%100
11	MP1A	X	.408	.408	0	%100
12	MP1A	Z	.235	.235	0	%100
13	SH1	X	.371	.371	0	%100
14	SH1	Z	.214	.214	0	%100
15	SH3	X	.019	.019	0	%100
16	SH3	Z	.011	.011	0	%100
17	SH2	X	.371	.371	0	%100
18	SH2	Z	.214	.214	0	%100
19	SH4	X	.019	.019	0	%100
20	SH4	Z	.011	.011	0	%100
21	V1	X	.291	.291	0	%100
22	V1	Z	.168	.168	0	%100
23	V2	X	.18	.18	0	%100
24	V2	Z	.104	.104	0	%100
25	V3	X	.18	.18	0	%100
26	V3	Z	.104	.104	0	%100
27	V6	X	.291	.291	0	%100
28	V6	Z	.168	.168	0	%100
29	V4	X	.18	.18	0	%100
30	V4	Z	.104	.104	0	%100
31	V5	X	.18	.18	0	%100
32	V5	Z	.104	.104	0	%100
33	D2	X	.174	.174	0	%100
34	D2	Z	.1	.1	0	%100
35	D1	X	.174	.174	0	%100
36	D1	Z	.1	.1	0	%100
37	D3	X	.114	.114	0	%100
38	D3	Z	.066	.066	0	%100
39	D4	X	.114	.114	0	%100
40	D4	Z	.066	.066	0	%100
41	MP4A	X	.408	.408	0	%100
42	MP4A	Z	.235	.235	0	%100
43	M33	X	.124	.124	0	%100
44	M33	Z	.072	.072	0	%100
45	M33A	X	.077	.077	0	%100
46	M33A	Z	.045	.045	0	%100
47	M34	X	.077	.077	0	%100
48	M34	Z	.045	.045	0	%100
49	M35	X	.077	.077	0	%100
50	M35	Z	.045	.045	0	%100
51	M36	X	.324	.324	0	%100
52	M36	Z	.187	.187	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
53	M37	X	.324	.324	0	%100
54	M37	Z	.187	.187	0	%100
55	M38	X	.324	.324	0	%100
56	M38	Z	.187	.187	0	%100
57	M39	X	.077	.077	0	%100
58	M39	Z	.045	.045	0	%100
59	M40	X	.077	.077	0	%100
60	M40	Z	.045	.045	0	%100
61	M41	X	.077	.077	0	%100
62	M41	Z	.045	.045	0	%100
63	M42	X	.324	.324	0	%100
64	M42	Z	.187	.187	0	%100
65	M43	X	.324	.324	0	%100
66	M43	Z	.187	.187	0	%100
67	M44	X	.324	.324	0	%100
68	M44	Z	.187	.187	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	.214	.214	0	%100
2	LV	Z	.37	.37	0	%100
3	FH1	X	.214	.214	0	%100
4	FH1	Z	.37	.37	0	%100
5	MP5A	X	.235	.235	0	%100
6	MP5A	Z	.408	.408	0	%100
7	MP3A	X	.235	.235	0	%100
8	MP3A	Z	.408	.408	0	%100
9	MP2A	X	.235	.235	0	%100
10	MP2A	Z	.408	.408	0	%100
11	MP1A	X	.235	.235	0	%100
12	MP1A	Z	.408	.408	0	%100
13	SH1	X	.224	.224	0	%100
14	SH1	Z	.388	.388	0	%100
15	SH3	X	.021	.021	0	%100
16	SH3	Z	.037	.037	0	%100
17	SH2	X	.224	.224	0	%100
18	SH2	Z	.388	.388	0	%100
19	SH4	X	.021	.021	0	%100
20	SH4	Z	.037	.037	0	%100
21	V1	X	.168	.168	0	%100
22	V1	Z	.291	.291	0	%100
23	V2	X	.104	.104	0	%100
24	V2	Z	.18	.18	0	%100
25	V3	X	.104	.104	0	%100
26	V3	Z	.18	.18	0	%100
27	V6	X	.168	.168	0	%100
28	V6	Z	.291	.291	0	%100
29	V4	X	.104	.104	0	%100
30	V4	Z	.18	.18	0	%100
31	V5	X	.104	.104	0	%100
32	V5	Z	.18	.18	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
33	D2	X	.102	.102	0	%100
34	D2	Z	.177	.177	0	%100
35	D1	X	.102	.102	0	%100
36	D1	Z	.177	.177	0	%100
37	D3	X	.067	.067	0	%100
38	D3	Z	.117	.117	0	%100
39	D4	X	.067	.067	0	%100
40	D4	Z	.117	.117	0	%100
41	MP4A	X	.235	.235	0	%100
42	MP4A	Z	.408	.408	0	%100
43	M33	X	.000866	.000866	0	%100
44	M33	Z	.002	.002	0	%100
45	M33A	X	.045	.045	0	%100
46	M33A	Z	.077	.077	0	%100
47	M34	X	.045	.045	0	%100
48	M34	Z	.077	.077	0	%100
49	M35	X	.045	.045	0	%100
50	M35	Z	.077	.077	0	%100
51	M36	X	.187	.187	0	%100
52	M36	Z	.324	.324	0	%100
53	M37	X	.187	.187	0	%100
54	M37	Z	.324	.324	0	%100
55	M38	X	.187	.187	0	%100
56	M38	Z	.324	.324	0	%100
57	M39	X	.045	.045	0	%100
58	M39	Z	.077	.077	0	%100
59	M40	X	.045	.045	0	%100
60	M40	Z	.077	.077	0	%100
61	M41	X	.045	.045	0	%100
62	M41	Z	.077	.077	0	%100
63	M42	X	.187	.187	0	%100
64	M42	Z	.324	.324	0	%100
65	M43	X	.187	.187	0	%100
66	M43	Z	.324	.324	0	%100
67	M44	X	.187	.187	0	%100
68	M44	Z	.324	.324	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	0	0	0	%100
2	LV	Z	.57	.57	0	%100
3	FH1	X	0	0	0	%100
4	FH1	Z	.57	.57	0	%100
5	MP5A	X	0	0	0	%100
6	MP5A	Z	.471	.471	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	.471	.471	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	.471	.471	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	.471	.471	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
13	SH1	X	0	0	0	%100
14	SH1	Z	.256	.256	0	%100
15	SH3	X	0	0	0	%100
16	SH3	Z	.256	.256	0	%100
17	SH2	X	0	0	0	%100
18	SH2	Z	.256	.256	0	%100
19	SH4	X	0	0	0	%100
20	SH4	Z	.256	.256	0	%100
21	V1	X	0	0	0	%100
22	V1	Z	.336	.336	0	%100
23	V2	X	0	0	0	%100
24	V2	Z	.208	.208	0	%100
25	V3	X	0	0	0	%100
26	V3	Z	.208	.208	0	%100
27	V6	X	0	0	0	%100
28	V6	Z	.336	.336	0	%100
29	V4	X	0	0	0	%100
30	V4	Z	.208	.208	0	%100
31	V5	X	0	0	0	%100
32	V5	Z	.208	.208	0	%100
33	D2	X	0	0	0	%100
34	D2	Z	.171	.171	0	%100
35	D1	X	0	0	0	%100
36	D1	Z	.171	.171	0	%100
37	D3	X	0	0	0	%100
38	D3	Z	.171	.171	0	%100
39	D4	X	0	0	0	%100
40	D4	Z	.171	.171	0	%100
41	MP4A	X	0	0	0	%100
42	MP4A	Z	.471	.471	0	%100
43	M33	X	0	0	0	%100
44	M33	Z	.094	.094	0	%100
45	M33A	X	0	0	0	%100
46	M33A	Z	.232	.232	0	%100
47	M34	X	0	0	0	%100
48	M34	Z	.232	.232	0	%100
49	M35	X	0	0	0	%100
50	M35	Z	.232	.232	0	%100
51	M36	X	0	0	0	%100
52	M36	Z	.232	.232	0	%100
53	M37	X	0	0	0	%100
54	M37	Z	.232	.232	0	%100
55	M38	X	0	0	0	%100
56	M38	Z	.232	.232	0	%100
57	M39	X	0	0	0	%100
58	M39	Z	.232	.232	0	%100
59	M40	X	0	0	0	%100
60	M40	Z	.232	.232	0	%100
61	M41	X	0	0	0	%100
62	M41	Z	.232	.232	0	%100
63	M42	X	0	0	0	%100
64	M42	Z	.232	.232	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
65	M43	X	0	0	0	%100
66	M43	Z	.232	.232	0	%100
67	M44	X	0	0	0	%100
68	M44	Z	.232	.232	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	-.214	-.214	0	%100
2	LV	Z	.37	.37	0	%100
3	FH1	X	-.214	-.214	0	%100
4	FH1	Z	.37	.37	0	%100
5	MP5A	X	-.235	-.235	0	%100
6	MP5A	Z	.408	.408	0	%100
7	MP3A	X	-.235	-.235	0	%100
8	MP3A	Z	.408	.408	0	%100
9	MP2A	X	-.235	-.235	0	%100
10	MP2A	Z	.408	.408	0	%100
11	MP1A	X	-.235	-.235	0	%100
12	MP1A	Z	.408	.408	0	%100
13	SH1	X	-.021	-.021	0	%100
14	SH1	Z	.037	.037	0	%100
15	SH3	X	-.224	-.224	0	%100
16	SH3	Z	.388	.388	0	%100
17	SH2	X	-.021	-.021	0	%100
18	SH2	Z	.037	.037	0	%100
19	SH4	X	-.224	-.224	0	%100
20	SH4	Z	.388	.388	0	%100
21	V1	X	-.168	-.168	0	%100
22	V1	Z	.291	.291	0	%100
23	V2	X	-.104	-.104	0	%100
24	V2	Z	.18	.18	0	%100
25	V3	X	-.104	-.104	0	%100
26	V3	Z	.18	.18	0	%100
27	V6	X	-.168	-.168	0	%100
28	V6	Z	.291	.291	0	%100
29	V4	X	-.104	-.104	0	%100
30	V4	Z	.18	.18	0	%100
31	V5	X	-.104	-.104	0	%100
32	V5	Z	.18	.18	0	%100
33	D2	X	-.067	-.067	0	%100
34	D2	Z	.117	.117	0	%100
35	D1	X	-.067	-.067	0	%100
36	D1	Z	.117	.117	0	%100
37	D3	X	-.102	-.102	0	%100
38	D3	Z	.177	.177	0	%100
39	D4	X	-.102	-.102	0	%100
40	D4	Z	.177	.177	0	%100
41	MP4A	X	-.235	-.235	0	%100
42	MP4A	Z	.408	.408	0	%100
43	M33	X	-.164	-.164	0	%100
44	M33	Z	.284	.284	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
45	M33A	X	-.187	-.187	0	%100
46	M33A	Z	.324	.324	0	%100
47	M34	X	-.187	-.187	0	%100
48	M34	Z	.324	.324	0	%100
49	M35	X	-.187	-.187	0	%100
50	M35	Z	.324	.324	0	%100
51	M36	X	-.045	-.045	0	%100
52	M36	Z	.077	.077	0	%100
53	M37	X	-.045	-.045	0	%100
54	M37	Z	.077	.077	0	%100
55	M38	X	-.045	-.045	0	%100
56	M38	Z	.077	.077	0	%100
57	M39	X	-.187	-.187	0	%100
58	M39	Z	.324	.324	0	%100
59	M40	X	-.187	-.187	0	%100
60	M40	Z	.324	.324	0	%100
61	M41	X	-.187	-.187	0	%100
62	M41	Z	.324	.324	0	%100
63	M42	X	-.045	-.045	0	%100
64	M42	Z	.077	.077	0	%100
65	M43	X	-.045	-.045	0	%100
66	M43	Z	.077	.077	0	%100
67	M44	X	-.045	-.045	0	%100
68	M44	Z	.077	.077	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	-.123	-.123	0	%100
2	LV	Z	.071	.071	0	%100
3	FH1	X	-.123	-.123	0	%100
4	FH1	Z	.071	.071	0	%100
5	MP5A	X	-.408	-.408	0	%100
6	MP5A	Z	.235	.235	0	%100
7	MP3A	X	-.408	-.408	0	%100
8	MP3A	Z	.235	.235	0	%100
9	MP2A	X	-.408	-.408	0	%100
10	MP2A	Z	.235	.235	0	%100
11	MP1A	X	-.408	-.408	0	%100
12	MP1A	Z	.235	.235	0	%100
13	SH1	X	-.019	-.019	0	%100
14	SH1	Z	.011	.011	0	%100
15	SH3	X	-.371	-.371	0	%100
16	SH3	Z	.214	.214	0	%100
17	SH2	X	-.019	-.019	0	%100
18	SH2	Z	.011	.011	0	%100
19	SH4	X	-.371	-.371	0	%100
20	SH4	Z	.214	.214	0	%100
21	V1	X	-.291	-.291	0	%100
22	V1	Z	.168	.168	0	%100
23	V2	X	-.18	-.18	0	%100
24	V2	Z	.104	.104	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
25	V3	X	-.18	-.18	0	%100
26	V3	Z	.104	.104	0	%100
27	V6	X	-.291	-.291	0	%100
28	V6	Z	.168	.168	0	%100
29	V4	X	-.18	-.18	0	%100
30	V4	Z	.104	.104	0	%100
31	V5	X	-.18	-.18	0	%100
32	V5	Z	.104	.104	0	%100
33	D2	X	-.114	-.114	0	%100
34	D2	Z	.066	.066	0	%100
35	D1	X	-.114	-.114	0	%100
36	D1	Z	.066	.066	0	%100
37	D3	X	-.174	-.174	0	%100
38	D3	Z	.1	.1	0	%100
39	D4	X	-.174	-.174	0	%100
40	D4	Z	.1	.1	0	%100
41	MP4A	X	-.408	-.408	0	%100
42	MP4A	Z	.235	.235	0	%100
43	M33	X	-.406	-.406	0	%100
44	M33	Z	.234	.234	0	%100
45	M33A	X	-.324	-.324	0	%100
46	M33A	Z	.187	.187	0	%100
47	M34	X	-.324	-.324	0	%100
48	M34	Z	.187	.187	0	%100
49	M35	X	-.324	-.324	0	%100
50	M35	Z	.187	.187	0	%100
51	M36	X	-.077	-.077	0	%100
52	M36	Z	.045	.045	0	%100
53	M37	X	-.077	-.077	0	%100
54	M37	Z	.045	.045	0	%100
55	M38	X	-.077	-.077	0	%100
56	M38	Z	.045	.045	0	%100
57	M39	X	-.324	-.324	0	%100
58	M39	Z	.187	.187	0	%100
59	M40	X	-.324	-.324	0	%100
60	M40	Z	.187	.187	0	%100
61	M41	X	-.324	-.324	0	%100
62	M41	Z	.187	.187	0	%100
63	M42	X	-.077	-.077	0	%100
64	M42	Z	.045	.045	0	%100
65	M43	X	-.077	-.077	0	%100
66	M43	Z	.045	.045	0	%100
67	M44	X	-.077	-.077	0	%100
68	M44	Z	.045	.045	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	0	0	0	%100
2	LV	Z	0	0	0	%100
3	FH1	X	0	0	0	%100
4	FH1	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,F...	Start Location[ft,%]	End Location[ft,%]
5	MP5A	X	-.471	-.471	0	%100
6	MP5A	Z	0	0	0	%100
7	MP3A	X	-.471	-.471	0	%100
8	MP3A	Z	0	0	0	%100
9	MP2A	X	-.471	-.471	0	%100
10	MP2A	Z	0	0	0	%100
11	MP1A	X	-.471	-.471	0	%100
12	MP1A	Z	0	0	0	%100
13	SH1	X	-.215	-.215	0	%100
14	SH1	Z	0	0	0	%100
15	SH3	X	-.215	-.215	0	%100
16	SH3	Z	0	0	0	%100
17	SH2	X	-.215	-.215	0	%100
18	SH2	Z	0	0	0	%100
19	SH4	X	-.215	-.215	0	%100
20	SH4	Z	0	0	0	%100
21	V1	X	-.336	-.336	0	%100
22	V1	Z	0	0	0	%100
23	V2	X	-.208	-.208	0	%100
24	V2	Z	0	0	0	%100
25	V3	X	-.208	-.208	0	%100
26	V3	Z	0	0	0	%100
27	V6	X	-.336	-.336	0	%100
28	V6	Z	0	0	0	%100
29	V4	X	-.208	-.208	0	%100
30	V4	Z	0	0	0	%100
31	V5	X	-.208	-.208	0	%100
32	V5	Z	0	0	0	%100
33	D2	X	-.164	-.164	0	%100
34	D2	Z	0	0	0	%100
35	D1	X	-.164	-.164	0	%100
36	D1	Z	0	0	0	%100
37	D3	X	-.164	-.164	0	%100
38	D3	Z	0	0	0	%100
39	D4	X	-.164	-.164	0	%100
40	D4	Z	0	0	0	%100
41	MP4A	X	-.471	-.471	0	%100
42	MP4A	Z	0	0	0	%100
43	M33	X	-.377	-.377	0	%100
44	M33	Z	0	0	0	%100
45	M33A	X	-.232	-.232	0	%100
46	M33A	Z	0	0	0	%100
47	M34	X	-.232	-.232	0	%100
48	M34	Z	0	0	0	%100
49	M35	X	-.232	-.232	0	%100
50	M35	Z	0	0	0	%100
51	M36	X	-.232	-.232	0	%100
52	M36	Z	0	0	0	%100
53	M37	X	-.232	-.232	0	%100
54	M37	Z	0	0	0	%100
55	M38	X	-.232	-.232	0	%100
56	M38	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,F...	Start Location[ft,%]	End Location[ft,%]
57	M39	X	-.232	-.232	0	%100
58	M39	Z	0	0	0	%100
59	M40	X	-.232	-.232	0	%100
60	M40	Z	0	0	0	%100
61	M41	X	-.232	-.232	0	%100
62	M41	Z	0	0	0	%100
63	M42	X	-.232	-.232	0	%100
64	M42	Z	0	0	0	%100
65	M43	X	-.232	-.232	0	%100
66	M43	Z	0	0	0	%100
67	M44	X	-.232	-.232	0	%100
68	M44	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	-.123	-.123	0	%100
2	LV	Z	-.071	-.071	0	%100
3	FH1	X	-.123	-.123	0	%100
4	FH1	Z	-.071	-.071	0	%100
5	MP5A	X	-.408	-.408	0	%100
6	MP5A	Z	-.235	-.235	0	%100
7	MP3A	X	-.408	-.408	0	%100
8	MP3A	Z	-.235	-.235	0	%100
9	MP2A	X	-.408	-.408	0	%100
10	MP2A	Z	-.235	-.235	0	%100
11	MP1A	X	-.408	-.408	0	%100
12	MP1A	Z	-.235	-.235	0	%100
13	SH1	X	-.371	-.371	0	%100
14	SH1	Z	-.214	-.214	0	%100
15	SH3	X	-.019	-.019	0	%100
16	SH3	Z	-.011	-.011	0	%100
17	SH2	X	-.371	-.371	0	%100
18	SH2	Z	-.214	-.214	0	%100
19	SH4	X	-.019	-.019	0	%100
20	SH4	Z	-.011	-.011	0	%100
21	V1	X	-.291	-.291	0	%100
22	V1	Z	-.168	-.168	0	%100
23	V2	X	-.18	-.18	0	%100
24	V2	Z	-.104	-.104	0	%100
25	V3	X	-.18	-.18	0	%100
26	V3	Z	-.104	-.104	0	%100
27	V6	X	-.291	-.291	0	%100
28	V6	Z	-.168	-.168	0	%100
29	V4	X	-.18	-.18	0	%100
30	V4	Z	-.104	-.104	0	%100
31	V5	X	-.18	-.18	0	%100
32	V5	Z	-.104	-.104	0	%100
33	D2	X	-.174	-.174	0	%100
34	D2	Z	-.1	-.1	0	%100
35	D1	X	-.174	-.174	0	%100
36	D1	Z	-.1	-.1	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
37	D3	X	-.114	-.114	0	%100
38	D3	Z	-.066	-.066	0	%100
39	D4	X	-.114	-.114	0	%100
40	D4	Z	-.066	-.066	0	%100
41	MP4A	X	-.408	-.408	0	%100
42	MP4A	Z	-.235	-.235	0	%100
43	M33	X	-.124	-.124	0	%100
44	M33	Z	-.072	-.072	0	%100
45	M33A	X	-.077	-.077	0	%100
46	M33A	Z	-.045	-.045	0	%100
47	M34	X	-.077	-.077	0	%100
48	M34	Z	-.045	-.045	0	%100
49	M35	X	-.077	-.077	0	%100
50	M35	Z	-.045	-.045	0	%100
51	M36	X	-.324	-.324	0	%100
52	M36	Z	-.187	-.187	0	%100
53	M37	X	-.324	-.324	0	%100
54	M37	Z	-.187	-.187	0	%100
55	M38	X	-.324	-.324	0	%100
56	M38	Z	-.187	-.187	0	%100
57	M39	X	-.077	-.077	0	%100
58	M39	Z	-.045	-.045	0	%100
59	M40	X	-.077	-.077	0	%100
60	M40	Z	-.045	-.045	0	%100
61	M41	X	-.077	-.077	0	%100
62	M41	Z	-.045	-.045	0	%100
63	M42	X	-.324	-.324	0	%100
64	M42	Z	-.187	-.187	0	%100
65	M43	X	-.324	-.324	0	%100
66	M43	Z	-.187	-.187	0	%100
67	M44	X	-.324	-.324	0	%100
68	M44	Z	-.187	-.187	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	-.214	-.214	0	%100
2	LV	Z	-.37	-.37	0	%100
3	FH1	X	-.214	-.214	0	%100
4	FH1	Z	-.37	-.37	0	%100
5	MP5A	X	-.235	-.235	0	%100
6	MP5A	Z	-.408	-.408	0	%100
7	MP3A	X	-.235	-.235	0	%100
8	MP3A	Z	-.408	-.408	0	%100
9	MP2A	X	-.235	-.235	0	%100
10	MP2A	Z	-.408	-.408	0	%100
11	MP1A	X	-.235	-.235	0	%100
12	MP1A	Z	-.408	-.408	0	%100
13	SH1	X	-.224	-.224	0	%100
14	SH1	Z	-.388	-.388	0	%100
15	SH3	X	-.021	-.021	0	%100
16	SH3	Z	-.037	-.037	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
17	SH2	X	-.224	-.224	0	%100
18	SH2	Z	-.388	-.388	0	%100
19	SH4	X	-.021	-.021	0	%100
20	SH4	Z	-.037	-.037	0	%100
21	V1	X	-.168	-.168	0	%100
22	V1	Z	-.291	-.291	0	%100
23	V2	X	-.104	-.104	0	%100
24	V2	Z	-.18	-.18	0	%100
25	V3	X	-.104	-.104	0	%100
26	V3	Z	-.18	-.18	0	%100
27	V6	X	-.168	-.168	0	%100
28	V6	Z	-.291	-.291	0	%100
29	V4	X	-.104	-.104	0	%100
30	V4	Z	-.18	-.18	0	%100
31	V5	X	-.104	-.104	0	%100
32	V5	Z	-.18	-.18	0	%100
33	D2	X	-.102	-.102	0	%100
34	D2	Z	-.177	-.177	0	%100
35	D1	X	-.102	-.102	0	%100
36	D1	Z	-.177	-.177	0	%100
37	D3	X	-.067	-.067	0	%100
38	D3	Z	-.117	-.117	0	%100
39	D4	X	-.067	-.067	0	%100
40	D4	Z	-.117	-.117	0	%100
41	MP4A	X	-.235	-.235	0	%100
42	MP4A	Z	-.408	-.408	0	%100
43	M33	X	-.000866	-.000866	0	%100
44	M33	Z	-.002	-.002	0	%100
45	M33A	X	-.045	-.045	0	%100
46	M33A	Z	-.077	-.077	0	%100
47	M34	X	-.045	-.045	0	%100
48	M34	Z	-.077	-.077	0	%100
49	M35	X	-.045	-.045	0	%100
50	M35	Z	-.077	-.077	0	%100
51	M36	X	-.187	-.187	0	%100
52	M36	Z	-.324	-.324	0	%100
53	M37	X	-.187	-.187	0	%100
54	M37	Z	-.324	-.324	0	%100
55	M38	X	-.187	-.187	0	%100
56	M38	Z	-.324	-.324	0	%100
57	M39	X	-.045	-.045	0	%100
58	M39	Z	-.077	-.077	0	%100
59	M40	X	-.045	-.045	0	%100
60	M40	Z	-.077	-.077	0	%100
61	M41	X	-.045	-.045	0	%100
62	M41	Z	-.077	-.077	0	%100
63	M42	X	-.187	-.187	0	%100
64	M42	Z	-.324	-.324	0	%100
65	M43	X	-.187	-.187	0	%100
66	M43	Z	-.324	-.324	0	%100
67	M44	X	-.187	-.187	0	%100
68	M44	Z	-.324	-.324	0	%100

Member Area Loads

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

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	N30	max	477.832	9	2100.52	18	-76.441	12	-.156	67	0	75	.272	30
2		min	-1347.358	27	522.688	74	-3325.835	18	-.625	23	0	1	-.058	48
3	N32	max	1342.587	33	893.04	24	3311.086	24	-.1	73	0	75	.184	32
4		min	-415.503	3	219.001	69	175.272	6	-.407	14	0	1	-.029	38
5	N58A	max	375.405	3	53.821	20	832.052	3	0	75	0	75	0	75
6		min	-369.111	9	12.672	64	-832.628	9	0	1	0	1	0	1
7	Totals:	max	1014.579	9	3041.292	15	1703.419	1						
8		min	-1014.579	3	754.864	73	-1703.421	7						

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc ...	phi*Pnt [...	phi*Mn y...	phi*Mn z...	Cb	Eqn
1	LV	PIPE 2.5	.329	12.109	11	.084	13.24		11	27414.6...	50715	3.596	3.596	1...	H1-1b
2	FH1	PIPE 2.5	.323	12.109	5	.082	13.24		3	27414.6...	50715	3.596	3.596	1...	H1-1b
3	MP5A	PIPE 2.0	.118	1.896	7	.053	1.896		5	17855.0...	32130	1.872	1.872	2...	H1-1b
4	MP3A	PIPE 2.0	.099	5.396	42	.026	1.969		50	17855.0...	32130	1.872	1.872	2...	H1-1b
5	MP2A	PIPE 2.0X	.172	4.833	13	.044	4.833		5	19844.8...	44100	2.531	2.531	1...	H1-1b
6	MP1A	PIPE 2.0	.306	3.646	9	.051	1.969		3	17855.0...	32130	1.872	1.872	1...	H1-1b
7	SH1	PIPE 2.0	.224	0	21	.100	0		22	21240.6...	32130	1.872	1.872	3...	H1-1b
8	SH3	PIPE 2.0	.337	0	17	.132	0		17	21240.6...	32130	1.872	1.872	3...	H1-1b
9	SH2	PIPE 2.0	.172	0	14	.082	5.386		44	21240.6...	32130	1.872	1.872	2...	H1-1b
10	SH4	PIPE 2.0	.267	5.875	11	.097	5.386		32	21240.6...	32130	1.872	1.872	2...	H1-1b
11	V1	PIPE 1.5	.053	.127	19	.012	.095		18	19819.4...	23593.5	1.105	1.105	1...	H1-1b
12	V2	PIPE .75	.178	3.042	13	.015	.095		42	5351.592	9828	.247	.247	1...	H1-1b*
13	V3	PIPE .75	.053	3.042	14	.011	.095		20	5351.592	9828	.247	.247	1...	H1-1b*
14	V6	PIPE 1.5	.088	.127	21	.018	.095		21	19819.4...	23593.5	1.105	1.105	1...	H1-1b
15	V4	PIPE .75	.079	3.042	21	.013	.095		19	5351.592	9828	.247	.247	1...	H1-1b*
16	V5	PIPE .75	.292	.824	15	.019	.095		18	5351.592	9828	.247	.247	1...	H1-1a
17	D2	PIPE .75	.107	1.942	13	.009	3.885		20	3638.297	9828	.247	.247	1...	H1-1b
18	D1	PIPE .75	.103	1.942	13	.016	3.885		5	3638.297	9828	.247	.247	1...	H1-1b
19	D3	PIPE .75	.206	.243	19	.013	0		18	3638.297	9828	.247	.247	1...	H1-1a
20	D4	PIPE .75	.139	1.942	22	.027	0		5	3638.297	9828	.247	.247	1...	H1-1b
21	MP4A	PIPE 2.0	.090	4.635	49	.020	4.635		2	23808.54	32130	1.872	1.872	1...	H1-1b
22	M33	PIPE 2.0	.105	5.365	3	.008	0		15	9269.113	32130	1.872	1.872	1.5	H1-1b
23	M33A	PL2.75x1/4	.065	0	43	.025	.164	y	17	19950.8...	22291.2	.116	1.277	1...	H1-1b
24	M34	PL2.75x1/4	.146	0	23	.092	0	y	22	19950.8...	22291.2	.116	1.277	2...	H1-1b
25	M35	PL2.75x1/4	.181	0	23	.092	0	y	20	19950.8...	22291.2	.116	1.277	2...	H1-1b
26	M36	PL2.75x1/4	.265	0	15	.161	0	y	18	19950.8...	22291.2	.116	1.277	2...	H1-1b
27	M37	PL2.75x1/4	.225	0	15	.162	0	y	15	19950.8...	22291.2	.116	1.277	2...	H1-1b
28	M38	PL2.75x1/4	.125	0	20	.028	.164	y	2	19950.8...	22291.2	.116	1.277	1...	H1-1b
29	M39	PL2.75x1/4	.269	.292	18	.097	.292	y	24	19950.8...	22291.2	.116	1.277	1...	H1-1b
30	M40	PL2.75x1/4	.275	.292	17	.095	.292	y	15	19950.8...	22291.2	.116	1.277	1...	H1-1b
31	M41	PL2.75x1/4	.016	.292	24	.013	0	y	50	19950.8...	22291.2	.116	1.277	1...	H1-1b
32	M42	PL2.75x1/4	.021	.292	21	.011	0	y	50	19950.8...	22291.2	.116	1.277	1...	H1-1b*
33	M43	PL2.75x1/4	.408	.292	19	.153	.292	y	21	19950.8...	22291.2	.116	1.277	1...	H1-1b

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc ...	phi*Pnt [...	phi*Mn y...	phi*Mn z...	Cb	Eqn
34	M44	PL2.75x1/4	.432	.292	21	.152	0	y	18	19950.8...	22291.2	.116	1.277	1....	H1-1b

VzW SMART Tool© Vendor

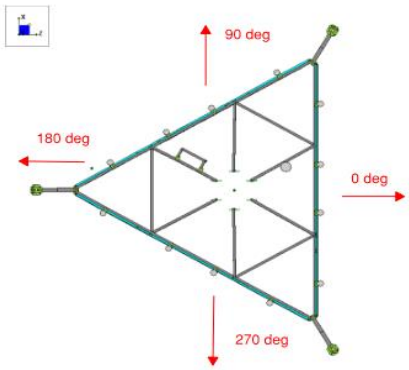
Client:	Verizon Wireless	Date:	7/11/2023
Site Name:	VERNON CT		
MDG #:	5000247666		
Fuze ID #:	17123896	Page:	1

Version 1.01

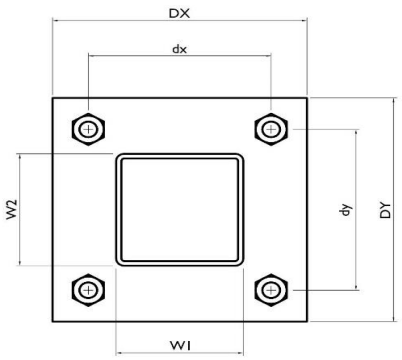
I. Mount-to-Tower Connection Check

Custom Orientation Required	Yes

Nodes (labeled per Risa)	Orientation (per graphic of typical platform)
N30	0
N32	0



Tower Connection Bolt Checks	Yes
Bolt Orientation	Parallel
Bolt Quantity per Reaction:	4
d_x (in) *(Delta X of typ. bolt config. sketch)*:	3
d_y (in) *(Delta Y of typ. bolt config. sketch)*:	1.5
Bolt Type:	A36
Bolt Diameter (in):	0.5
Required Tensile Strength / bolt (kips):	3.3
Required Shear Strength / bolt (kips):	0.8
Tensile Capacity / bolt (kips):	6.4
Shear Capacity / bolt (kips):	3.8
Bolt Overall Utilization:	**51.7%**
Tower Connection Baseplate Checks	No



Date: **January 18, 2024**

Crown Castle
2000 Corporate Drive
Canonsburg, PA 15317
(724) 416-2000

Subject:	**Structural Analysis Report**	
Carrier Designation:	***Verizon Wireless* Co-Locate**	
	Site Number:	5000247666
	Site Name:	VERNON CT
Crown Castle Designation:	**BU Number:**	806377
	Site Name:	HRT 084 943242
	JDE Job Number:	751332
	Work Order Number:	2278833
	Order Number:	654599 Rev. 0
Engineering Firm Designation:	**Crown Castle Project Number**	2278833
Site Data:	**197 South St., Vernon, Tolland County, CT**	
	Latitude: *41° 51' 12.51"* Longitude: *-72° 27' 7.52"*	
	132 ft - Self Support Tower	

Crown Castle 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:

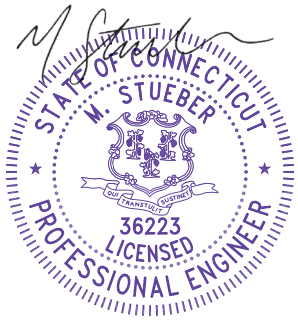
LC5: Proposed Equipment Configuration **Sufficient Capacity - 79.6%**

This analysis has been performed in accordance with the 2022 Connecticut State Building Code based upon an ultimate 3-second gust wind speed of 118 mph. Applicable Standard references and design criteria are listed in Section 2 – "Analysis Criteria".

Structural analysis prepared by: Mishka Stueber

Respectfully submitted by:

Mishka Stueber, P.E.
Project Engineer



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Date: 2024.01.18 16:53:45 -08'00'

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1) INTRODUCTION

This tower is a 132 ft Self Support Tower designed by Rohn. The tower has been modified in the past to accommodate additional loading.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	118 mph
Exposure Category:	B
Topographic Factor:	1
Ice Thickness:	1.50 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)
112	117	2	rfs celwave	DB-T1-6Z-8AB-0Z	6 2	7/8 1-5/8
	114	3	samsung telecommunications	MT6407-77A w/ Mount Pipe		
	113	2	andrew	LBX-6515DS-T0M		
		1	andrew	LNX-6514DS-T4M		
		4	andrew	SBNHH-1D65B w/ Mount Pipe		
		4	kaelus	BSF0020F3V1		
		3	samsung telecommunications	RFV01U-D1A		
		3	samsung telecommunications	RFV01U-D2A		
	112	2	andrew	SBNHH-1D65B w/ Mount Pipe		
		1	tower mounts	Sector Mount [SM 505-3]		
	111	3	samsung telecommunications	XXDWMM-12.5-65-8T-CBRS		
57	60	1	maxrad	GPS-TMG-20N w/ Mount Pipe	1	1/2
	57	1	tower mounts	Side Arm Mount [SO 305-1]		

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)
130	150	1	telewave	ANT450D6-9	2 3	7/8 1-5/8
	145	1	decibel	DB413-B		
	141	1	telewave	ANT450D6-9		
	133	3	ericsson	Radio 4480_TMOV2		
	130	3	commscope	VV-65B-R1_TMO w/ Mount Pipe		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
		3	ericsson	AIR 6419 B41_TMO w/ Mount Pipe		
		3	ericsson	RADIO 4460 B2/B25 B66_TMO		
		3	rfs celwave	APXVAALL24_43-U-NA20_TMO w/ Mount Pipe		
		3	tower mounts	Site Pro 1 VFA10-HD-S		
105	109	1	raycap	DC9-48-60-24-8C-EV_CCIV2	1 3 4 15	Conduit 3/8 13/16 7/8
	108	3	ericsson	AIR 6419 B77G_CCIV2 w/ Mount Pipe		
		3	ericsson	RRUS 32 B30		
		3	ericsson	RRUS 4449 B5/B12		
		2	raycap	DC6-48-60-18-8F		
	105	2	cci antennas	DMP65R-BU6D w/ Mount Pipe		
		2	cci antennas	TPA65R-BU6D_CCIV2 w/ Mount Pipe		
		1	tower mounts	Sector Mount [SM 503-3]		
	104	1	cci antennas	DMP65R-BU8D w/ Mount Pipe		
		1	cci antennas	TPA65R-BU8D_CCIV2 w/ Mount Pipe		
		3	ericsson	AIR 6449 B77D C-BAND_CCIV2 w/ Mount Pipe		
		3	ericsson	RRUS 4478 B14		
		3	ericsson	RRUS 8843 B2/B66A		
94	97	3	fujitsu	TA08025-B604	1	1-1/2
		3	fujitsu	TA08025-B605		
		1	jma wireless	MX08FRO665-21 w/ Mount Pipe		
		1	raycap	RDIDC-9181-PF-48		
	96	2	jma wireless	MX08FRO665-21 w/ Mount Pipe		
	94	1	tower mounts	Commscope MTC3975083 (3)		
85	87	2	ericsson	RADIO 4449 B12/B71	10 2 1	7/8 1-3/8 1-5/8
	86	3	ericsson	AIR 32 B2A/B66AA w/ Mount Pipe		
		3	ericsson	ERICSSON AIR 21 B2A B4P w/ Mount Pipe		
	85	3	ericsson	KRY 112 144/1		
		1	ericsson	RADIO 4449 B12/B71		
		3	rfs celwave	APXVAARR24_43-U-NA20 w/ Mount Pipe		
		3	tower mounts	Sitepro VFA12-U (1)		
64	65	1	rfs celwave	SB1-190BB	1	1/2
	64	1	tower mounts	Side Arm Mount [SO 311-1]		
	63	1	siae microelettronica	ALFOPLUS2_CCIV3		
46	47	1	lucent	KS24019-L112A w/ Mount Pipe	1	1/2

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
4-GEOTECHNICAL REPORTS	1014866	CCISITES
4-POST-MODIFICATION INSPECTION	5849707	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	1014812	CCISITES
4-TOWER MANUFACTURER DRAWINGS	529704	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	5678760	CCISITES

3.1) Analysis Method

tnxTower (version 8.2.2.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 standard.

3.2) Assumptions

1) 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. Crown Castle should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass/ Fail
T1	132 - 120	Leg	ROHN 2 STD	3	-8.33	38.68	21.5	Pass
T2	120 - 100	Leg	ROHN 2.5 STD	27	-27.11	59.99	45.2	Pass
T3	100 - 93.3333	Leg	ROHN 3 STD	57	-35.03	74.44	47.1	Pass
T4	93.3333 - 86.6667	Leg	ROHN 3 STD	66	-43.17	74.41	58.0	Pass
T5	86.6667 - 80	Leg	ROHN 3 STD	75	-52.88	96.10	55.0	Pass
T6	80 - 60	Leg	ROHN 3 X-STR	87	-78.83	99.05	79.6	Pass
T7	60 - 40	Leg	ROHN 4 X-STR	108	-103.45	167.91	61.6	Pass
T8	40 - 20	Leg	ROHN 5 X-STR	129	-124.72	211.31	59.0	Pass
T9	20 - 10	Leg	ROHN 5 X-STR	144	-136.21	211.31	64.5	Pass
T10	10 - 0	Leg	ROHN 5 X-STR	153	-146.62	265.94	55.1	Pass
T1	132 - 120	Diagonal	L1 3/4x1 3/4x3/16	15	-1.92	11.55	16.7	Pass
T2	120 - 100	Diagonal	L1 3/4x1 3/4x3/16	33	-3.99	6.66	59.9	Pass
T3	100 - 93.3333	Diagonal	L2 1/2x2 1/2x3/16	60	-4.56	15.16	30.1	Pass
T4	93.3333 - 86.6667	Diagonal	L2 1/2x2 1/2x3/16	69	-4.78	13.54	35.3	Pass
T5	86.6667 - 80	Diagonal	L2 1/2x2 1/2x3/16	78	-5.90	12.58	46.9	Pass
T6	80 - 60	Diagonal	L2 1/2x2 1/2x3/16	90	-5.60	9.53	58.7	Pass
T7	60 - 40	Diagonal	L3x3x3/16	111	-5.88	13.25	44.4	Pass
T8	40 - 20	Diagonal	L3x3x1/4	132	-6.73	11.79	57.1	Pass
T9	20 - 10	Diagonal	L3 1/2x3 1/2x1/4	147	-6.78	17.40	39.0	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass/ Fail
T10	10 - 0	Diagonal	L3 1/2x3 1/2x1/4	156	-7.29	16.01	45.5	Pass
T5	86.6667 - 80	Secondary Horizontal	L1 1/2x1 1/2x3/16	84	-0.92	3.92	23.4	Pass
T10	10 - 0	Secondary Horizontal	L2 1/2x2 1/2x3/16	162	-2.54	6.01	42.3	Pass
T1	132 - 120	Top Girt	L2x2x3/16	4	-0.09	6.09	1.5	Pass
T2	120 - 100	Top Girt	L2x2x3/16	29	-0.47	6.09	7.7	Pass
							Summary	
						Leg (T6)	79.6	Pass
						Diagonal (T2)	59.9	Pass
						Secondary Horizontal (T10)	42.3	Pass
						Top Girt (T2)	7.7	Pass
						Bolt Checks	71.7	Pass
						RATING =	79.6	Pass

Table 5 - Tower Component Stresses vs. Capacity - LC5

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	0	53.2	Pass
1	Base Foundation (Structural)	0	7.5	Pass
1	Base Foundation (Soil)	0	59.7	Pass

Structure Rating (max from all components) =	79.6%

Notes:
1) See additional documentation in “Appendix C – Additional Calculations” for calculations supporting the % capacity consumed

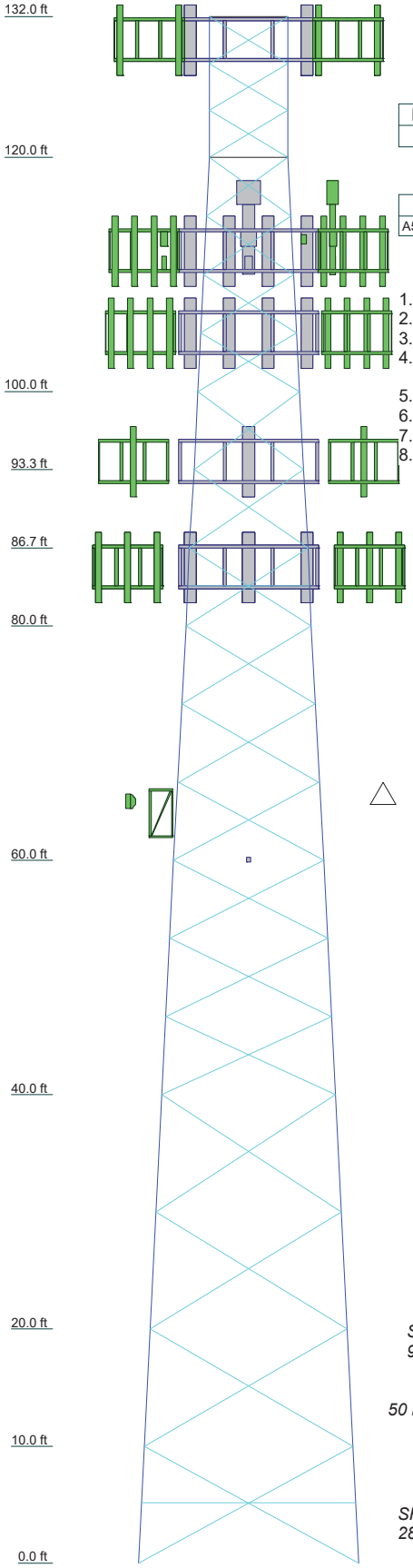
4.1) Recommendations

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

APPENDIX A

TNXTOWER OUTPUT

Section		T1	T2	T3	T4	T5	T6	T7	T8	T9	T10
Legs		ROHN 2 STD	ROHN 2.5 STD	ROHN 3 STD			ROHN 3 X-STR	ROHN 4 X-STR	ROHN 5 X-STR		
Leg Grade		A572-50									
Diagonals		L1 3/4x1 3/4x3/16			L2 1/2x2 1/2x3/16		L3x3x3/16		L3x3x1/4		L3 1/2x3 1/2x1/4
Diagonal Grade		A36							A572-50		
Top Girts		L2x2x3/16					N.A.				
Sec. Horizontals		N.A.				A		N.A.			L2 1/2x2 1/2x3/16
Face Width (ft)	18.7708	6.60417	6.64583	8.6875	9.35417	10.1198	10.6875	12.7604	14.7708	16.7708	17.7708
# Panels @ (ft)		3 @ 4	4 @ 5				9 @ 6.66667			4 @ 10	
Weight (K)	11.5	0.5	0.9	0.4	0.4	0.5	1.4	2.0	2.5	1.4	1.6



SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	L1 1/2x1 1/2x3/16		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A36	36 ksi	58 ksi

TOWER DESIGN NOTES

1. Tower is located in Tolland County, Connecticut.
2. Tower designed for Exposure B 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 1.50 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. TOWER RATING: 79.6%

ALL REACTIONS ARE FACTORED

MAX. CORNER REACTIONS AT BASE:
DOWN: 152 K
SHEAR: 18 K

UPLIFT: -122 K
SHEAR: 15 K

AXIAL 97 K
SHEAR 9 K *MOMENT 744 kip-ft*
TORQUE 11 kip-ft
50 mph WIND - 1.5000 in ICE

AXIAL 41 K
SHEAR 28 K *MOMENT 2258 kip-ft*
TORQUE 31 kip-ft
REACTIONS - 118 mph WIND

Crown Castle
8020 Katy Fwy
Houston, TX 77024
The Pathway to Possible Phone: (713) 570-3000
FAX:

Job: 806377			
Project:			
Client: Crown Castle	Drawn by: Mishka Stueber		App'd:
Code: TIA-222-H	Date: 01/18/24		Scale: NTS
Path: C:\SAPI Work Area\806377\WO 2278833 - SA\Prod\806377.eri			Dwg No. E-1

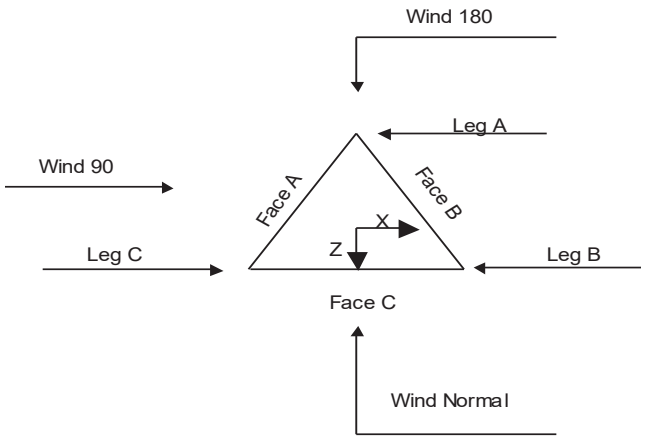
Tower Input Data

The main tower is a 3x free standing tower with an overall height of 132.00 ft above the ground line.
The base of the tower is set at an elevation of 0.00 ft above the ground line.
The face width of the tower is 6.60 ft at the top and 18.77 ft at the base.
This tower is designed using the TIA-222-H standard.
The following design criteria apply:

Tower is located in Tolland County, Connecticut.
Tower base elevation above sea level: 650.00 ft.
Basic wind speed of 118 mph.
Risk Category II.
Exposure Category B.
Simplified Topographic Factor Procedure for wind speed-up calculations is used.
Topographic Category: 1.
Crest Height: 0.00 ft.
Nominal ice thickness of 1.5000 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.
Pressures are calculated at each section.
Stress ratio used in tower member 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		Assume Legs Pinned	√	Calculate Redundant Bracing Forces
	Consider Moments - Horizontals	√	Assume Rigid Index Plate		Ignore Redundant Members in FEA
	Consider Moments - Diagonals	√	Use Clear Spans For Wind Area		SR Leg Bolts Resist Compression
	Use Moment Magnification	√	Use Clear Spans For KL/r		All Leg Panels Have Same Allowable
√	Use Code Stress Ratios		Retension Guys To Initial Tension		Offset Girt At Foundation
√	Use Code Safety Factors - Guys	√	Bypass Mast Stability Checks	√	Consider Feed Line Torque
	Escalate Ice	√	Use Azimuth Dish Coefficients	√	Include Angle Block Shear Check
	Always Use Max Kz	√	Project Wind Area of Appurtenances		Use TIA-222-H Bracing Resist. Exemption
	Use Special Wind Profile		Alternative Appurt. EPA Calculation		Use TIA-222-H Tension Splice Exemption
	Include Bolts In Member Capacity		Autocalc Torque Arm Areas		Poles
	Leg Bolts Are At Top Of Section		Add IBC .6D+W Combination		Include Shear-Torsion Interaction
√	Secondary Horizontal Braces Leg	√	Sort Capacity Reports By Component		Always Use Sub-Critical Flow
	Use Diamond Inner Bracing (4 Sided)		Triangulate Diamond Inner Bracing		Use Top Mounted Sockets
	SR Members Have Cut Ends		Treat Feed Line Bundles As Cylinder		Pole Without Linear Attachments
	SR Members Are Concentric		Ignore KL/ry For 60 Deg. Angle Legs		Pole With Shroud Or No Appurtenances
	Distribute Leg Loads As Uniform		Use ASCE 10 X-Brace Ly Rules		Outside and Inside Corner Radii Are Known



Triangular Tower

Tower Section Geometry

Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections	Section Length
	ft			ft		ft
T1	132.00-120.00			6.60	1	12.00
T2	120.00-100.00			6.65	1	20.00
T3	100.00-93.33			8.69	1	6.67
T4	93.33-86.67			9.35	1	6.67
T5	86.67-80.00			10.12	1	6.67
T6	80.00-60.00			10.69	1	20.00
T7	60.00-40.00			12.76	1	20.00
T8	40.00-20.00			14.77	1	20.00
T9	20.00-10.00			16.77	1	10.00
T10	10.00-0.00			17.77	1	10.00

Tower Section Geometry *(cont'd)*

Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset	Bottom Girt Offset
	ft	ft				in	in
T1	132.00-120.00	4.00	X Brace	No	No	0.0000	0.0000
T2	120.00-100.00	5.00	X Brace	No	No	0.0000	0.0000
T3	100.00-93.33	6.67	X Brace	No	No	0.0000	0.0000
T4	93.33-86.67	6.67	X Brace	No	No	0.0000	0.0000
T5	86.67-80.00	6.67	X Brace	No	Yes	0.0000	0.0000
T6	80.00-60.00	6.67	X Brace	No	No	0.0000	0.0000
T7	60.00-40.00	6.67	X Brace	No	No	0.0000	0.0000
T8	40.00-20.00	10.00	X Brace	No	No	0.0000	0.0000

Tower Section	Tower Elevation ft	Diagonal Spacing ft	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset in	Bottom Girt Offset in
T9	20.00-10.00	10.00	X Brace	No	No	0.0000	0.0000
T10	10.00-0.00	10.00	X Brace	No	Yes	0.0000	0.0000

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T1 132.00-120.00	Pipe	ROHN 2 STD	A572-50 (50 ksi)	Equal Angle	L1 3/4x1 3/4x3/16	A36 (36 ksi)
T2 120.00-100.00	Pipe	ROHN 2.5 STD	A572-50 (50 ksi)	Equal Angle	L1 3/4x1 3/4x3/16	A36 (36 ksi)
T3 100.00-93.33	Pipe	ROHN 3 STD	A572-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A36 (36 ksi)
T4 93.33-86.67	Pipe	ROHN 3 STD	A572-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A36 (36 ksi)
T5 86.67-80.00	Pipe	ROHN 3 STD	A572-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A36 (36 ksi)
T6 80.00-60.00	Pipe	ROHN 3 X-STR	A572-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A36 (36 ksi)
T7 60.00-40.00	Pipe	ROHN 4 X-STR	A572-50 (50 ksi)	Equal Angle	L3x3x3/16	A36 (36 ksi)
T8 40.00-20.00	Pipe	ROHN 5 X-STR	A572-50 (50 ksi)	Equal Angle	L3x3x1/4	A572-50 (50 ksi)
T9 20.00-10.00	Pipe	ROHN 5 X-STR	A572-50 (50 ksi)	Equal Angle	L3 1/2x3 1/2x1/4	A572-50 (50 ksi)
T10 10.00-0.00	Pipe	ROHN 5 X-STR	A572-50 (50 ksi)	Equal Angle	L3 1/2x3 1/2x1/4	A572-50 (50 ksi)

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
T1 132.00-120.00	Equal Angle	L2x2x3/16	A36 (36 ksi)	Flat Bar		A36 (36 ksi)
T2 120.00-100.00	Equal Angle	L2x2x3/16	A36 (36 ksi)	Flat Bar		A36 (36 ksi)

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Secondary Horizontal Type	Secondary Horizontal Size	Secondary Horizontal Grade	Inner Bracing Type	Inner Bracing Size	Inner Bracing Grade
T5 86.67-80.00	Equal Angle	L1 1/2x1 1/2x3/16	A36 (36 ksi)	Solid Round		A572-50 (50 ksi)
T10 10.00-0.00	Equal Angle	L2 1/2x2 1/2x3/16	A36 (36 ksi)	Solid Round		A572-50 (50 ksi)

Tower Section Geometry *(cont'd)*

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
T1 132.00-120.00	0.00	0.2500	A36 (36 ksi)	1.03	1	1.05	0.0000	0.0000	0.0000
T2 120.00-100.00	0.00	0.2500	A36 (36 ksi)	1.03	1	1.05	0.0000	0.0000	0.0000
T3 100.00-93.33	0.00	0.2500	A36 (36 ksi)	1.03	1	1.05	0.0000	0.0000	0.0000
T4 93.33-86.67	0.00	0.2500	A36 (36 ksi)	1.03	1	1.05	0.0000	0.0000	0.0000
T5 86.67-80.00	0.00	0.2500	A36 (36 ksi)	1.03	1	1.05	0.0000	0.0000	0.0000
T6 80.00-60.00	0.00	0.2500	A36 (36 ksi)	1.03	1	1.05	0.0000	0.0000	0.0000
T7 60.00-40.00	0.00	0.2500	A36 (36 ksi)	1.03	1	1.05	0.0000	0.0000	0.0000
T8 40.00-20.00	0.00	0.2500	A36 (36 ksi)	1.03	1	1.05	0.0000	0.0000	0.0000
T9 20.00-10.00	0.00	0.2500	A36 (36 ksi)	1.03	1	1.05	0.0000	0.0000	0.0000
T10 10.00-0.00	0.00	0.3750	A36 (36 ksi)	1.03	1	1.05	0.0000	0.0000	0.0000

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Calc K Single Angles	Calc K Solid Rounds	K Factors[1] Legs	X Brace Diags X Y	K Brace Diags X Y	Single Diags X Y	Girts X Y	Horiz. X Y	Sec. Horiz. X Y	Inner Brace X Y
T1 132.00-120.00	Yes	Yes	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T2 120.00-100.00	Yes	Yes	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T3 100.00-93.33	Yes	Yes	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T4 93.33-86.67	Yes	Yes	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T5 86.67-80.00	Yes	Yes	1	1 1	1 1	1 1	1 1	1 1	1 0.5	1 1
T6 80.00-60.00	Yes	Yes	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T7 60.00-40.00	Yes	Yes	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T8 40.00-20.00	Yes	Yes	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T9 20.00-10.00	Yes	Yes	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T10 10.00-0.00	Yes	Yes	1	1 1	1 1	1 1	1 1	1 1	1 0.5	1 1

[1]Note: K factors are applied to member segment lengths. K-braces without inner supporting members will have the K factor in the out-of-plane direction applied to the overall length.

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T1 132.00-120.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T2 120.00-100.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T3 100.00-93.33	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T4 93.33-86.67	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T5 86.67-80.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T6 80.00-60.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T7 60.00-40.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T8 40.00-20.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T9 20.00-10.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T10 10.00-0.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75

Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T1 132.00-120.00	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75 (1)	0.0000	0.75 (1)
	0.0000	0.75 (2)	0.0000	0.75 (2)							0.0000	0.75 (2)	0.0000	0.75 (2)
	0.0000	0.75 (3)	0.0000	0.75 (3)							0.0000	0.75 (3)	0.0000	0.75 (3)
	0.0000	0.75 (4)	0.0000	0.75 (4)							0.0000	0.75 (4)	0.0000	0.75 (4)
T2 120.00-100.00	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75 (1)	0.0000	0.75 (1)
	0.0000	0.75 (2)	0.0000	0.75 (2)							0.0000	0.75 (2)	0.0000	0.75 (2)
	0.0000	0.75 (3)	0.0000	0.75 (3)							0.0000	0.75 (3)	0.0000	0.75 (3)
	0.0000	0.75 (4)	0.0000	0.75 (4)							0.0000	0.75 (4)	0.0000	0.75 (4)
T3 100.00-93.33	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75 (1)	0.0000	0.75 (1)
	0.0000	0.75 (2)	0.0000	0.75 (2)							0.0000	0.75 (2)	0.0000	0.75 (2)
	0.0000	0.75 (3)	0.0000	0.75 (3)							0.0000	0.75 (3)	0.0000	0.75 (3)
	0.0000	0.75 (4)	0.0000	0.75 (4)							0.0000	0.75 (4)	0.0000	0.75 (4)
T4 93.33-86.67	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75 (1)	0.0000	0.75 (1)

Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
	0.0000	0.75 (2)	0.0000	0.75 (2)							0.0000	0.75 (2)	0.0000	0.75 (2)
	0.0000	0.75 (3)	0.0000	0.75 (3)							0.0000	0.75 (3)	0.0000	0.75 (3)
	0.0000	0.75 (4)	0.0000	0.75 (4)							0.0000	0.75 (4)	0.0000	0.75 (4)
T5 86.67-80.00	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75 (1)	0.0000	0.75 (1)
	0.0000	0.75 (2)	0.0000	0.75 (2)							0.0000	0.75 (2)	0.0000	0.75 (2)
	0.0000	0.75 (3)	0.0000	0.75 (3)							0.0000	0.75 (3)	0.0000	0.75 (3)
	0.0000	0.75 (4)	0.0000	0.75 (4)							0.0000	0.75 (4)	0.0000	0.75 (4)
T6 80.00-60.00	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75 (1)	0.0000	0.75 (1)
	0.0000	0.75 (2)	0.0000	0.75 (2)							0.0000	0.75 (2)	0.0000	0.75 (2)
	0.0000	0.75 (3)	0.0000	0.75 (3)							0.0000	0.75 (3)	0.0000	0.75 (3)
	0.0000	0.75 (4)	0.0000	0.75 (4)							0.0000	0.75 (4)	0.0000	0.75 (4)
T7 60.00-40.00	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75 (1)	0.0000	0.75 (1)
	0.0000	0.75 (2)	0.0000	0.75 (2)							0.0000	0.75 (2)	0.0000	0.75 (2)
	0.0000	0.75 (3)	0.0000	0.75 (3)							0.0000	0.75 (3)	0.0000	0.75 (3)
	0.0000	0.75 (4)	0.0000	0.75 (4)							0.0000	0.75 (4)	0.0000	0.75 (4)
T8 40.00-20.00	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75 (1)	0.0000	0.75 (1)
	0.0000	0.75 (2)	0.0000	0.75 (2)							0.0000	0.75 (2)	0.0000	0.75 (2)
	0.0000	0.75 (3)	0.0000	0.75 (3)							0.0000	0.75 (3)	0.0000	0.75 (3)
	0.0000	0.75 (4)	0.0000	0.75 (4)							0.0000	0.75 (4)	0.0000	0.75 (4)
T9 20.00-10.00	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75 (1)	0.0000	0.75 (1)
	0.0000	0.75 (2)	0.0000	0.75 (2)							0.0000	0.75 (2)	0.0000	0.75 (2)
	0.0000	0.75 (3)	0.0000	0.75 (3)							0.0000	0.75 (3)	0.0000	0.75 (3)
	0.0000	0.75 (4)	0.0000	0.75 (4)							0.0000	0.75 (4)	0.0000	0.75 (4)
T10 10.00-0.00	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75 (1)	0.0000	0.75 (1)
	0.0000	0.75 (2)	0.0000	0.75 (2)							0.0000	0.75 (2)	0.0000	0.75 (2)
	0.0000	0.75 (3)	0.0000	0.75 (3)							0.0000	0.75 (3)	0.0000	0.75 (3)

	0.0000 0.75 (4)	0.0000 0.75 (4)				0.0000 0.75 (4)	0.0000 0.75 (4)	

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T1 132.00-120.00	Flange	0.6250 A325X	4	0.6250 A325X	1	0.6250 A325X	1	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T2 120.00-100.00	Flange	0.7500 A325X	4	0.6250 A325X	1	0.6250 A325X	1	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T3 100.00-93.33	Flange	0.0000 A325X	0	0.6250 A325X	1	0.5000 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T4 93.33-86.67	Flange	0.0000 A325X	0	0.6250 A325X	1	0.5000 A325N	0	0.0000 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T5 86.67-80.00	Flange	0.8750 A325X	4	0.6250 A325X	1	0.6250 A325N	0	0.0000 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	1
T6 80.00-60.00	Flange	0.8750 A325X	4	0.6250 A325X	1	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T7 60.00-40.00	Flange	1.0000 A325X	4	0.6250 A325X	1	0.5000 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T8 40.00-20.00	Flange	1.0000 A325X	4	0.6250 A325X	1	0.5000 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T9 20.00-10.00	Flange	0.0000 A325X	0	0.6250 A325X	1	0.5000 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T10 10.00-0.00	Flange	1.0000 A449	0	0.7500 A325X	1	0.6250 A325N	0	0.0000 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	1

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
Step Pegs (5/8'' SR) 7.5-in w/ 30'' Step	B	No	No	Ar (CaAa)	40.00 - 0.00	0.0000	0.5	1	1	0.3130	0.3130		0.52
Step Pegs (5/8'' SR) 7.5-in w/ 30'' Step	C	No	No	Ar (CaAa)	40.00 - 0.00	0.0000	0.5	1	1	0.3130	0.3130		0.52
Step Pegs (5/8'' SR) 7.5-in w/ 30'' Step	A	No	No	Ar (CaAa)	132.00 - 0.00	0.0000	0.5	1	1	0.3130	0.3130		0.52
Safety Line 3/8	A	No	No	Ar (CaAa)	132.00 - 0.00	0.0000	0.5	1	1	0.3750	0.3750		0.22
B Face													
Feedline Ladder (Af)	B	No	No	Af (CaAa)	63.00 - 0.00	0.0000	-0.43	1	1	3.0000	3.0000		8.40
LDF4-50A(1/2)	B	No	No	Ar (CaAa)	57.00 - 0.00	0.0000	-0.47	1	1	0.5000	0.6300		0.15
HB078-1-08U3-M3J(7/8)	B	No	No	Ar (CaAa)	130.00 - 0.00	0.0000	-0.44	8	4	0.5000	1.0900		0.78
LCF12-	B	No	No	Ar (CaAa)	64.00 - 0.00	0.0000	-0.425	1	1	0.5000	0.6400		0.15

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
50J(1/2) ***													
HB158-21U6S24-xxM_TMO(1-5/8)	B	No	No	Ar (CaAa)	130.00 - 0.00	0.0000	0.415	3	3	0.5000	1.9960		2.50
LDF4-50A(1/2) ***A Face***	B	No	No	Ar (CaAa)	46.00 - 0.00	0.0000	0.39	1	1	0.5000	0.6300		0.15
Feedline Ladder (Af)	A	No	No	Af (CaAa)	112.00 - 0.00	0.0000	0.4	1	1	3.0000	3.0000		8.40
HB158-1-08U8-S8J18(1-5/8)	A	No	No	Ar (CaAa)	112.00 - 0.00	0.0000	0.43	2	2	0.5000	1.9800		1.30
LDF5-50A(7/8) ***	A	No	No	Ar (CaAa)	112.00 - 0.00	0.0000	0.39	6	6	0.5000	1.0900		0.33
LDF5-50A(7/8)	C	No	No	Ar (CaAa)	105.00 - 0.00	0.0000	-0.38	15	9	0.5000	1.0900		0.33
PWRT-608-S(13/16)	C	No	No	Ar (CaAa)	105.00 - 0.00	1.5000	-0.43	3	3	0.5000	0.8200		0.62
FB-L98B-034-XXX(3/8)	C	No	No	Ar (CaAa)	105.00 - 0.00	0.0000	-0.45	2	2	0.3937	0.3937		0.06
2'' Flexible Conduit	C	No	No	Ar (CaAa)	105.00 - 0.00	0.0000	-0.46	1	1	0.5000	2.0000		0.34
FB-L98B-235-XXX(3/8)	C	No	No	Ar (CaAa)	105.00 - 0.00	0.0000	-0.46	1	1	0.3900	0.3900		0.06
PWRT-608-S(13/16) ***	C	No	No	Ar (CaAa)	105.00 - 0.00	0.0000	-0.47	1	1	0.5000	0.8200		0.62
T-Bracket ***	B	No	No	Af (CaAa)	94.00 - 0.00	-10.0000	0.45	1	1	1.5000	1.5000		4.20
AL5-50(7/8)	B	No	No	Ar (CaAa)	85.00 - 0.00	-10.0000	0.45	8	2	0.5000	1.1000		0.26
AL5-50(7/8)	B	No	No	Ar (CaAa)	85.00 - 0.00	-8.0000	0.462	2	1	0.5000	1.1000		0.26
HCS 6X12 6AWG(1-3/8)	B	No	No	Ar (CaAa)	85.00 - 0.00	-12.0000	0.435	2	2	0.5000	1.3800		1.70
MLE HYBRID 9POWER/18FIBER RL 2(1-5/8) ***	B	No	No	Ar (CaAa)	85.00 - 0.00	-12.0000	0.455	1	1	0.5000	1.6250		1.07
CU12PSM9P6XXX(1-1/2) ****** ***	B	No	No	Ar (CaAa)	94.00 - 0.00	-5.0000	0.433	1	1	0.5000	1.6000		2.35

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
****** ***								

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
T1	132.00-120.00	A	0.000	0.000	0.826	0.000	0.01
		B	0.000	0.000	14.708	0.000	0.14
		C	0.000	0.000	0.000	0.000	0.00
T2	120.00-100.00	A	0.000	0.000	19.976	0.000	0.17
		B	0.000	0.000	29.416	0.000	0.27
		C	0.000	0.000	11.404	0.000	0.04
T3	100.00-93.33	A	0.000	0.000	10.792	0.000	0.09
		B	0.000	0.000	10.079	0.000	0.10
		C	0.000	0.000	15.205	0.000	0.05
T4	93.33-86.67	A	0.000	0.000	10.792	0.000	0.09
		B	0.000	0.000	12.539	0.000	0.14
		C	0.000	0.000	15.205	0.000	0.05
T5	86.67-80.00	A	0.000	0.000	10.792	0.000	0.09
		B	0.000	0.000	20.231	0.000	0.17
		C	0.000	0.000	15.205	0.000	0.05
T6	80.00-60.00	A	0.000	0.000	32.376	0.000	0.27
		B	0.000	0.000	70.142	0.000	0.57
		C	0.000	0.000	45.615	0.000	0.16
T7	60.00-40.00	A	0.000	0.000	32.376	0.000	0.27
		B	0.000	0.000	81.115	0.000	0.72
		C	0.000	0.000	45.615	0.000	0.16
T8	40.00-20.00	A	0.000	0.000	32.376	0.000	0.27
		B	0.000	0.000	82.812	0.000	0.73
		C	0.000	0.000	46.241	0.000	0.17
T9	20.00-10.00	A	0.000	0.000	16.188	0.000	0.14
		B	0.000	0.000	41.406	0.000	0.37
		C	0.000	0.000	23.120	0.000	0.08
T10	10.00-0.00	A	0.000	0.000	16.188	0.000	0.14
		B	0.000	0.000	41.406	0.000	0.37
		C	0.000	0.000	23.120	0.000	0.08

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
T1	132.00-120.00	A	1.458	0.000	0.000	7.823	0.000	0.09
		B		0.000	0.000	26.828	0.000	0.42
		C		0.000	0.000	0.000	0.000	0.00
T2	120.00-100.00	A	1.438	0.000	0.000	54.368	0.000	0.71
		B		0.000	0.000	53.388	0.000	0.83
		C		0.000	0.000	24.753	0.000	0.29
T3	100.00-93.33	A	1.420	0.000	0.000	27.187	0.000	0.36
		B		0.000	0.000	18.364	0.000	0.29
		C		0.000	0.000	32.806	0.000	0.39
T4	93.33-86.67	A	1.410	0.000	0.000	27.102	0.000	0.35
		B		0.000	0.000	24.159	0.000	0.38
		C		0.000	0.000	32.697	0.000	0.38
T5	86.67-80.00	A	1.399	0.000	0.000	27.011	0.000	0.35
		B		0.000	0.000	41.534	0.000	0.59
		C		0.000	0.000	32.581	0.000	0.38
T6	80.00-60.00	A	1.375	0.000	0.000	80.422	0.000	1.04
		B		0.000	0.000	144.613	0.000	2.03
		C		0.000	0.000	96.967	0.000	1.12

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
T7	60.00-40.00	A	1.329	0.000	0.000	79.275	0.000	1.01
		B		0.000	0.000	168.299	0.000	2.39
		C		0.000	0.000	95.504	0.000	1.09
T8	40.00-20.00	A	1.263	0.000	0.000	77.608	0.000	0.96
		B		0.000	0.000	175.439	0.000	2.40
		C		0.000	0.000	99.056	0.000	1.09
T9	20.00-10.00	A	1.178	0.000	0.000	37.740	0.000	0.45
		B		0.000	0.000	84.916	0.000	1.13
		C		0.000	0.000	48.002	0.000	0.51
T10	10.00-0.00	A	1.056	0.000	0.000	36.201	0.000	0.41
		B		0.000	0.000	80.856	0.000	1.04
		C		0.000	0.000	45.794	0.000	0.46

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
T1	132.00-120.00	2.8802	-3.6857	3.0586	-5.8284
T2	120.00-100.00	6.1820	-9.7969	6.5970	-11.1826
T3	100.00-93.33	12.4906	-9.9265	14.1349	-9.7610
T4	93.33-86.67	13.9350	-9.0591	16.4767	-8.0638
T5	86.67-80.00	16.6118	-5.2399	19.5998	-3.6643
T6	80.00-60.00	20.4130	-5.4646	23.8481	-3.6742
T7	60.00-40.00	20.5646	-8.4094	25.0131	-8.3159
T8	40.00-20.00	24.6023	-9.5450	29.0553	-7.8782
T9	20.00-10.00	24.9663	-9.7303	30.2231	-8.4110
T10	10.00-0.00	23.4027	-9.1712	28.7828	-8.2870

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T1	3	Step Pegs (5/8" SR) 7.5-in w/ 30" Step	120.00 - 132.00	0.6000	0.6000
T1	4	Safety Line 3/8	120.00 - 132.00	0.6000	0.6000
T1	8	HB078-1-08U3-M3J(7/8)	120.00 - 130.00	0.6000	0.6000
T1	14	HB158-21U6S24-xxM_TMO(1-5/8)	120.00 - 130.00	0.6000	0.6000
T2	3	Step Pegs (5/8" SR) 7.5-in w/ 30" Step	100.00 - 120.00	0.6000	0.6000
T2	4	Safety Line 3/8	100.00 - 120.00	0.6000	0.6000
T2	8	HB078-1-08U3-M3J(7/8)	100.00 - 120.00	0.6000	0.6000
T2	14	HB158-21U6S24-xxM_TMO(1-5/8)	100.00 - 120.00	0.6000	0.6000
T2	17	Feedline Ladder (Af)	100.00 - 112.00	0.6000	0.6000
T2	18	HB158-1-08U8-S8J18(1-5/8)	100.00 -	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
			112.00		
T2	19	LDF5-50A(7/8)	100.00 - 112.00	0.6000	0.6000
T2	24	LDF5-50A(7/8)	100.00 - 105.00	0.6000	0.6000
T2	28	PWRT-608-S(13/16)	100.00 - 105.00	0.6000	0.6000
T2	29	FB-L98B-034-XXX(3/8)	100.00 - 105.00	0.6000	0.6000
T2	30	2" Flexible Conduit	100.00 - 105.00	0.6000	0.6000
T2	31	FB-L98B-235-XXX(3/8)	100.00 - 105.00	0.0000	0.0000
T2	32	PWRT-608-S(13/16)	100.00 - 105.00	0.6000	0.6000
T3	3	Step Pegs (5/8" SR) 7.5-in w/ 30" Step	93.33 - 100.00	0.6000	0.6000
T3	4	Safety Line 3/8	93.33 - 100.00	0.6000	0.6000
T3	8	HB078-1-08U3-M3J(7/8)	93.33 - 100.00	0.6000	0.6000
T3	14	HB158-21U6S24-xxM_TMO(1-5/8)	93.33 - 100.00	0.6000	0.6000
T3	17	Feedline Ladder (Af)	93.33 - 100.00	0.6000	0.6000
T3	18	HB158-1-08U8-S8J18(1-5/8)	93.33 - 100.00	0.6000	0.6000
T3	19	LDF5-50A(7/8)	93.33 - 100.00	0.6000	0.6000
T3	24	LDF5-50A(7/8)	93.33 - 100.00	0.6000	0.6000
T3	28	PWRT-608-S(13/16)	93.33 - 100.00	0.6000	0.6000
T3	29	FB-L98B-034-XXX(3/8)	93.33 - 100.00	0.6000	0.6000
T3	30	2" Flexible Conduit	93.33 - 100.00	0.6000	0.6000
T3	31	FB-L98B-235-XXX(3/8)	93.33 - 100.00	0.0000	0.0000
T3	32	PWRT-608-S(13/16)	93.33 - 100.00	0.6000	0.6000
T3	34	T-Bracket	93.33 - 94.00	0.6000	0.6000
T3	43	CU12PSM9P6XXX(1-1/2)	93.33 - 94.00	0.6000	0.6000
T4	3	Step Pegs (5/8" SR) 7.5-in w/ 30" Step	86.67 - 93.33	0.6000	0.6000
T4	4	Safety Line 3/8	86.67 - 93.33	0.6000	0.6000
T4	8	HB078-1-08U3-M3J(7/8)	86.67 - 93.33	0.6000	0.6000
T4	14	HB158-21U6S24-xxM_TMO(1-5/8)	86.67 - 93.33	0.6000	0.6000
T4	17	Feedline Ladder (Af)	86.67 - 93.33	0.6000	0.6000
T4	18	HB158-1-08U8-S8J18(1-5/8)	86.67 - 93.33	0.6000	0.6000
T4	19	LDF5-50A(7/8)	86.67 - 93.33	0.6000	0.6000
T4	24	LDF5-50A(7/8)	86.67 - 93.33	0.6000	0.6000
T4	28	PWRT-608-S(13/16)	86.67 - 93.33	0.6000	0.6000
T4	29	FB-L98B-034-XXX(3/8)	86.67 - 93.33	0.6000	0.6000
T4	30	2" Flexible Conduit	86.67 - 93.33	0.6000	0.6000
T4	31	FB-L98B-235-XXX(3/8)	86.67 - 93.33	0.0000	0.0000
T4	32	PWRT-608-S(13/16)	86.67 - 93.33	0.6000	0.6000
T4	34	T-Bracket	86.67 - 93.33	0.6000	0.6000
T4	43	CU12PSM9P6XXX(1-1/2)	86.67 - 93.33	0.6000	0.6000
T5	3	Step Pegs (5/8" SR) 7.5-in w/ 30" Step	80.00 - 86.67	0.6000	0.6000
T5	4	Safety Line 3/8	80.00 - 86.67	0.6000	0.6000
T5	8	HB078-1-08U3-M3J(7/8)	80.00 - 86.67	0.6000	0.6000
T5	14	HB158-21U6S24-xxM_TMO(1-5/8)	80.00 - 86.67	0.6000	0.6000
T5	17	Feedline Ladder (Af)	80.00 - 86.67	0.6000	0.6000
T5	18	HB158-1-08U8-S8J18(1-5/8)	80.00 - 86.67	0.6000	0.6000
T5	19	LDF5-50A(7/8)	80.00 - 86.67	0.6000	0.6000
T5	24	LDF5-50A(7/8)	80.00 - 86.67	0.6000	0.6000
T5	28	PWRT-608-S(13/16)	80.00 - 86.67	0.6000	0.6000
T5	29	FB-L98B-034-XXX(3/8)	80.00 - 86.67	0.6000	0.6000
T5	30	2" Flexible Conduit	80.00 - 86.67	0.6000	0.6000
T5	31	FB-L98B-235-XXX(3/8)	80.00 - 86.67	0.0000	0.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T5	32	PWRT-608-S(13/16)	80.00 - 86.67	0.6000	0.6000
T5	34	T-Bracket	80.00 - 86.67	0.6000	0.6000
T5	38	AL5-50(7/8)	80.00 - 85.00	0.6000	0.6000
T5	39	AL5-50(7/8)	80.00 - 85.00	0.6000	0.6000
T5	40	HCS 6X12 6AWG(1-3/8)	80.00 - 85.00	0.6000	0.6000
T5	41	MLE HYBRID 9POWER/18FIBER RL 2(1-5/8)	80.00 - 85.00	0.6000	0.6000
T5	43	CU12PSM9P6XXX(1-1/2)	80.00 - 86.67	0.6000	0.6000
T6	3	Step Pegs (5/8" SR) 7.5-in w/ 30" Step	60.00 - 80.00	0.6000	0.6000
T6	4	Safety Line 3/8	60.00 - 80.00	0.6000	0.6000
T6	6	Feedline Ladder (Af)	60.00 - 63.00	0.6000	0.6000
T6	8	HB078-1-08U3-M3J(7/8)	60.00 - 80.00	0.6000	0.6000
T6	9	LCF12-50J(1/2)	60.00 - 64.00	0.6000	0.6000
T6	14	HB158-21U6S24-xxM_TMO(1-5/8)	60.00 - 80.00	0.6000	0.6000
T6	17	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.6000
T6	18	HB158-1-08U8-S8J18(1-5/8)	60.00 - 80.00	0.6000	0.6000
T6	19	LDF5-50A(7/8)	60.00 - 80.00	0.6000	0.6000
T6	24	LDF5-50A(7/8)	60.00 - 80.00	0.6000	0.6000
T6	28	PWRT-608-S(13/16)	60.00 - 80.00	0.6000	0.6000
T6	29	FB-L98B-034-XXX(3/8)	60.00 - 80.00	0.6000	0.6000
T6	30	2" Flexible Conduit	60.00 - 80.00	0.6000	0.6000
T6	31	FB-L98B-235-XXX(3/8)	60.00 - 80.00	0.0000	0.0000
T6	32	PWRT-608-S(13/16)	60.00 - 80.00	0.6000	0.6000
T6	34	T-Bracket	60.00 - 80.00	0.6000	0.6000
T6	38	AL5-50(7/8)	60.00 - 80.00	0.6000	0.6000
T6	39	AL5-50(7/8)	60.00 - 80.00	0.6000	0.6000
T6	40	HCS 6X12 6AWG(1-3/8)	60.00 - 80.00	0.6000	0.6000
T6	41	MLE HYBRID 9POWER/18FIBER RL 2(1-5/8)	60.00 - 80.00	0.6000	0.6000
T6	43	CU12PSM9P6XXX(1-1/2)	60.00 - 80.00	0.6000	0.6000
T7	3	Step Pegs (5/8" SR) 7.5-in w/ 30" Step	40.00 - 60.00	0.6000	0.6000
T7	4	Safety Line 3/8	40.00 - 60.00	0.6000	0.6000
T7	6	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T7	7	LDF4-50A(1/2)	40.00 - 57.00	0.6000	0.6000
T7	8	HB078-1-08U3-M3J(7/8)	40.00 - 60.00	0.6000	0.6000
T7	9	LCF12-50J(1/2)	40.00 - 60.00	0.6000	0.6000
T7	14	HB158-21U6S24-xxM_TMO(1-5/8)	40.00 - 60.00	0.6000	0.6000
T7	15	LDF4-50A(1/2)	40.00 - 46.00	0.6000	0.6000
T7	17	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T7	18	HB158-1-08U8-S8J18(1-5/8)	40.00 - 60.00	0.6000	0.6000
T7	19	LDF5-50A(7/8)	40.00 - 60.00	0.6000	0.6000
T7	24	LDF5-50A(7/8)	40.00 - 60.00	0.6000	0.6000
T7	28	PWRT-608-S(13/16)	40.00 - 60.00	0.6000	0.6000
T7	29	FB-L98B-034-XXX(3/8)	40.00 - 60.00	0.6000	0.6000
T7	30	2" Flexible Conduit	40.00 - 60.00	0.6000	0.6000
T7	31	FB-L98B-235-XXX(3/8)	40.00 - 60.00	0.0000	0.0000
T7	32	PWRT-608-S(13/16)	40.00 - 60.00	0.6000	0.6000
T7	34	T-Bracket	40.00 - 60.00	0.6000	0.6000
T7	38	AL5-50(7/8)	40.00 - 60.00	0.6000	0.6000
T7	39	AL5-50(7/8)	40.00 - 60.00	0.6000	0.6000
T7	40	HCS 6X12 6AWG(1-3/8)	40.00 - 60.00	0.6000	0.6000
T7	41	MLE HYBRID 9POWER/18FIBER RL 2(1-5/8)	40.00 - 60.00	0.6000	0.6000
T7	43	CU12PSM9P6XXX(1-1/2)	40.00 - 60.00	0.6000	0.6000
T8	1	Step Pegs (5/8" SR) 7.5-in w/ 30" Step	20.00 - 40.00	0.6000	0.6000
T8	2	Step Pegs (5/8" SR) 7.5-in w/ 30" Step	20.00 - 40.00	0.6000	0.6000
T8	3	Step Pegs (5/8" SR) 7.5-in w/	20.00 - 40.00	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
		30" Step			
T8	4	Safety Line 3/8	20.00 - 40.00	0.6000	0.6000
T8	6	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T8	7	LDF4-50A(1/2)	20.00 - 40.00	0.6000	0.6000
T8	8	HB078-1-08U3-M3J(7/8)	20.00 - 40.00	0.6000	0.6000
T8	9	LCF12-50J(1/2)	20.00 - 40.00	0.6000	0.6000
T8	14	HB158-21U6S24-xxM_TMO(1-5/8)	20.00 - 40.00	0.6000	0.6000
T8	15	LDF4-50A(1/2)	20.00 - 40.00	0.6000	0.6000
T8	17	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T8	18	HB158-1-08U8-S8J18(1-5/8)	20.00 - 40.00	0.6000	0.6000
T8	19	LDF5-50A(7/8)	20.00 - 40.00	0.6000	0.6000
T8	24	LDF5-50A(7/8)	20.00 - 40.00	0.6000	0.6000
T8	28	PWRT-608-S(13/16)	20.00 - 40.00	0.6000	0.6000
T8	29	FB-L98B-034-XXX(3/8)	20.00 - 40.00	0.6000	0.6000
T8	30	2" Flexible Conduit	20.00 - 40.00	0.6000	0.6000
T8	31	FB-L98B-235-XXX(3/8)	20.00 - 40.00	0.0000	0.0000
T8	32	PWRT-608-S(13/16)	20.00 - 40.00	0.6000	0.6000
T8	34	T-Bracket	20.00 - 40.00	0.6000	0.6000
T8	38	AL5-50(7/8)	20.00 - 40.00	0.6000	0.6000
T8	39	AL5-50(7/8)	20.00 - 40.00	0.6000	0.6000
T8	40	HCS 6X12 6AWG(1-3/8)	20.00 - 40.00	0.6000	0.6000
T8	41	MLE HYBRID 9POWER/18FIBER RL 2(1-5/8)	20.00 - 40.00	0.6000	0.6000
T8	43	CU12PSM9P6XXX(1-1/2)	20.00 - 40.00	0.6000	0.6000
T9	1	Step Pegs (5/8" SR) 7.5-in w/ 30" Step	10.00 - 20.00	0.6000	0.6000
T9	2	Step Pegs (5/8" SR) 7.5-in w/ 30" Step	10.00 - 20.00	0.6000	0.6000
T9	3	Step Pegs (5/8" SR) 7.5-in w/ 30" Step	10.00 - 20.00	0.6000	0.6000
T9	4	Safety Line 3/8	10.00 - 20.00	0.6000	0.6000
T9	6	Feedline Ladder (Af)	10.00 - 20.00	0.6000	0.6000
T9	7	LDF4-50A(1/2)	10.00 - 20.00	0.6000	0.6000
T9	8	HB078-1-08U3-M3J(7/8)	10.00 - 20.00	0.6000	0.6000
T9	9	LCF12-50J(1/2)	10.00 - 20.00	0.6000	0.6000
T9	14	HB158-21U6S24-xxM_TMO(1-5/8)	10.00 - 20.00	0.6000	0.6000
T9	15	LDF4-50A(1/2)	10.00 - 20.00	0.6000	0.6000
T9	17	Feedline Ladder (Af)	10.00 - 20.00	0.6000	0.6000
T9	18	HB158-1-08U8-S8J18(1-5/8)	10.00 - 20.00	0.6000	0.6000
T9	19	LDF5-50A(7/8)	10.00 - 20.00	0.6000	0.6000
T9	24	LDF5-50A(7/8)	10.00 - 20.00	0.6000	0.6000
T9	28	PWRT-608-S(13/16)	10.00 - 20.00	0.6000	0.6000
T9	29	FB-L98B-034-XXX(3/8)	10.00 - 20.00	0.6000	0.6000
T9	30	2" Flexible Conduit	10.00 - 20.00	0.6000	0.6000
T9	31	FB-L98B-235-XXX(3/8)	10.00 - 20.00	0.0000	0.0000
T9	32	PWRT-608-S(13/16)	10.00 - 20.00	0.6000	0.6000
T9	34	T-Bracket	10.00 - 20.00	0.6000	0.6000
T9	38	AL5-50(7/8)	10.00 - 20.00	0.6000	0.6000
T9	39	AL5-50(7/8)	10.00 - 20.00	0.6000	0.6000
T9	40	HCS 6X12 6AWG(1-3/8)	10.00 - 20.00	0.6000	0.6000
T9	41	MLE HYBRID 9POWER/18FIBER RL 2(1-5/8)	10.00 - 20.00	0.6000	0.6000
T9	43	CU12PSM9P6XXX(1-1/2)	10.00 - 20.00	0.6000	0.6000
T10	1	Step Pegs (5/8" SR) 7.5-in w/ 30" Step	0.00 - 10.00	0.6000	0.6000
T10	2	Step Pegs (5/8" SR) 7.5-in w/ 30" Step	0.00 - 10.00	0.6000	0.6000
T10	3	Step Pegs (5/8" SR) 7.5-in w/ 30" Step	0.00 - 10.00	0.6000	0.6000
T10	4	Safety Line 3/8	0.00 - 10.00	0.6000	0.6000
T10	6	Feedline Ladder (Af)	0.00 - 10.00	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T10	7	LDF4-50A(1/2)	0.00 - 10.00	0.6000	0.6000
T10	8	HB078-1-08U3-M3J(7/8)	0.00 - 10.00	0.6000	0.6000
T10	9	LCF12-50J(1/2)	0.00 - 10.00	0.6000	0.6000
T10	14	HB158-21U6S24-xxM_TMO(1-5/8)	0.00 - 10.00	0.6000	0.6000
T10	15	LDF4-50A(1/2)	0.00 - 10.00	0.6000	0.6000
T10	17	Feedline Ladder (Af)	0.00 - 10.00	0.6000	0.6000
T10	18	HB158-1-08U8-S8J18(1-5/8)	0.00 - 10.00	0.6000	0.6000
T10	19	LDF5-50A(7/8)	0.00 - 10.00	0.6000	0.6000
T10	24	LDF5-50A(7/8)	0.00 - 10.00	0.6000	0.6000
T10	28	PWRT-608-S(13/16)	0.00 - 10.00	0.6000	0.6000
T10	29	FB-L98B-034-XXX(3/8)	0.00 - 10.00	0.6000	0.6000
T10	30	2" Flexible Conduit	0.00 - 10.00	0.6000	0.6000
T10	31	FB-L98B-235-XXX(3/8)	0.00 - 10.00	0.0000	0.0000
T10	32	PWRT-608-S(13/16)	0.00 - 10.00	0.6000	0.6000
T10	34	T-Bracket	0.00 - 10.00	0.6000	0.6000
T10	38	AL5-50(7/8)	0.00 - 10.00	0.6000	0.6000
T10	39	AL5-50(7/8)	0.00 - 10.00	0.6000	0.6000
T10	40	HCS 6X12 6AWG(1-3/8)	0.00 - 10.00	0.6000	0.6000
T10	41	MLE HYBRID 9POWER/18FIBER RL 2(1-5/8)	0.00 - 10.00	0.6000	0.6000
T10	43	CU12PSM9P6XXX(1-1/2)	0.00 - 10.00	0.6000	0.6000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
***					
ANT450D6-9	A	From Leg	4.00 0.00 20.00	0.0000	130.00
ANT450D6-9	A	From Leg	4.00 0.00 11.00	0.0000	130.00
DB413-B	A	From Leg	4.00 0.00 15.00	0.0000	130.00
4'' x 5' Pipe	A	From Leg	0.00 0.00 3.00	0.0000	130.00
4'' x 5' Pipe	B	From Leg	0.00 0.00 3.00	0.0000	130.00
4'' x 5' Pipe	C	From Leg	0.00 0.00 0.00	0.0000	130.00
12'x4'' Mount Pipe	A	From Leg	0.00 0.00 0.00	0.0000	130.00
12'x4'' Mount Pipe	B	From Leg	0.00 0.00	0.0000	130.00

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft Vert ft ft	Azimuth Adjustment °	Placement ft
			0.00		
130					
VV-65B-R1_TMO w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	130.00
VV-65B-R1_TMO w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	130.00
VV-65B-R1_TMO w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	130.00
AIR 6419 B41_TMO w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	130.00
AIR 6419 B41_TMO w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	130.00
AIR 6419 B41_TMO w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	130.00
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	130.00
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	130.00
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	130.00
RADIO 4460 B2/B25 B66_TMO	A	From Leg	4.00 0.00 0.00	0.0000	130.00
RADIO 4460 B2/B25 B66_TMO	B	From Leg	4.00 0.00 0.00	0.0000	130.00
RADIO 4460 B2/B25 B66_TMO	C	From Leg	4.00 0.00 0.00	0.0000	130.00
Radio 4480_TMOV2	A	From Leg	4.00 0.00 3.00	0.0000	130.00
Radio 4480_TMOV2	B	From Leg	4.00 0.00 3.00	0.0000	130.00
Radio 4480_TMOV2	C	From Leg	4.00 0.00 3.00	0.0000	130.00
2.4'' Dia x 8-ft Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	130.00
2.4'' Dia x 8-ft Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	130.00
2.4'' Dia x 8-ft Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	130.00
Site Pro 1 VFA10-HD-S	A	From Leg	2.00 0.00	0.0000	130.00

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
			0.00		
Site Pro 1 VFA10-HD-S	B	From Leg	2.00	0.0000	130.00
			0.00		
			0.00		
Site Pro 1 VFA10-HD-S	C	From Leg	2.00	0.0000	130.00
			0.00		
			0.00		
*** 112 ***					
(2) SBNHH-1D65B w/ Mount Pipe	A	From Leg	4.00	0.0000	112.00
			0.00		
			1.00		
(2) SBNHH-1D65B w/ Mount Pipe	B	From Leg	4.00	0.0000	112.00
			0.00		
			1.00		
(2) SBNHH-1D65B w/ Mount Pipe	C	From Leg	4.00	0.0000	112.00
			0.00		
			0.00		
MT6407-77A w/ Mount Pipe	A	From Leg	4.00	0.0000	112.00
			0.00		
			2.00		
MT6407-77A w/ Mount Pipe	B	From Leg	4.00	0.0000	112.00
			0.00		
			2.00		
MT6407-77A w/ Mount Pipe	C	From Leg	4.00	0.0000	112.00
			0.00		
			2.00		
XXDWMM-12.5-65-8T-CBRS	A	From Leg	4.00	0.0000	112.00
			0.00		
			-1.00		
XXDWMM-12.5-65-8T-CBRS	B	From Leg	4.00	0.0000	112.00
			0.00		
			-1.00		
XXDWMM-12.5-65-8T-CBRS	C	From Leg	4.00	0.0000	112.00
			0.00		
			-1.00		
LBX-6515DS-T0M	A	From Leg	4.00	0.0000	112.00
			0.00		
			1.00		
LBX-6515DS-T0M	B	From Leg	4.00	0.0000	112.00
			0.00		
			1.00		
LNX-6514DS-T4M	C	From Leg	4.00	0.0000	112.00
			0.00		
			1.00		
RFV01U-D1A	A	From Leg	4.00	0.0000	112.00
			0.00		
			1.00		
RFV01U-D1A	B	From Leg	4.00	0.0000	112.00
			0.00		
			1.00		
RFV01U-D1A	C	From Leg	4.00	0.0000	112.00
			0.00		
			1.00		
RFV01U-D2A	A	From Leg	4.00	0.0000	112.00
			0.00		
			1.00		
RFV01U-D2A	B	From Leg	4.00	0.0000	112.00
			0.00		

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft
RFV01U-D2A	C	From Leg	1.00 4.00 0.00	0.0000	112.00
DB-T1-6Z-8AB-0Z	A	From Leg	1.00 4.00 0.00	0.0000	112.00
DB-T1-6Z-8AB-0Z	B	From Leg	5.00 4.00 0.00	0.0000	112.00
(2) BSF0020F3V1	A	From Leg	5.00 4.00 0.00	0.0000	112.00
(2) BSF0020F3V1	B	From Leg	1.00 4.00 0.00	0.0000	112.00
Sector Mount [SM 505-3] ***104***	C	None	1.00	0.0000	112.00
DMP65R-BU6D w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	105.00
DMP65R-BU6D w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	105.00
DMP65R-BU8D w/ Mount Pipe	C	From Leg	4.00 0.00 -1.00	0.0000	105.00
TPA65R-BU6D_CCIV2 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	105.00
TPA65R-BU6D_CCIV2 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	105.00
TPA65R-BU8D_CCIV2 w/ Mount Pipe	C	From Leg	4.00 0.00 -1.00	0.0000	105.00
AIR 6419 B77G_CCIV2 w/ Mount Pipe	A	From Leg	4.00 0.00 3.00	0.0000	105.00
AIR 6419 B77G_CCIV2 w/ Mount Pipe	B	From Leg	4.00 0.00 3.00	0.0000	105.00
AIR 6419 B77G_CCIV2 w/ Mount Pipe	C	From Leg	4.00 0.00 3.00	0.0000	105.00
AIR 6449 B77D C-BAND_CCIV2 w/ Mount Pipe	A	From Leg	4.00 0.00 -1.00	0.0000	105.00
AIR 6449 B77D C-BAND_CCIV2 w/ Mount Pipe	B	From Leg	4.00 0.00 -1.00	0.0000	105.00
AIR 6449 B77D C-BAND_CCIV2 w/ Mount Pipe	C	From Leg	4.00 0.00 -1.00	0.0000	105.00
RRUS 32 B30	A	From Leg	4.00 0.00 3.00	0.0000	105.00
RRUS 32 B30	B	From Leg	4.00	0.0000	105.00

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft
			0.00		
			3.00		
RRUS 32 B30	C	From Leg	4.00	0.0000	105.00
			0.00		
			3.00		
RRUS 4449 B5/B12	A	From Leg	4.00	0.0000	105.00
			0.00		
			3.00		
RRUS 4449 B5/B12	B	From Leg	4.00	0.0000	105.00
			0.00		
			3.00		
RRUS 4449 B5/B12	C	From Leg	4.00	0.0000	105.00
			0.00		
			3.00		
RRUS 4478 B14	A	From Leg	4.00	0.0000	105.00
			0.00		
			-1.00		
RRUS 4478 B14	B	From Leg	4.00	0.0000	105.00
			0.00		
			-1.00		
RRUS 4478 B14	C	From Leg	4.00	0.0000	105.00
			0.00		
			-1.00		
RRUS 8843 B2/B66A	A	From Leg	4.00	0.0000	105.00
			0.00		
			-1.00		
RRUS 8843 B2/B66A	B	From Leg	4.00	0.0000	105.00
			0.00		
			-1.00		
RRUS 8843 B2/B66A	C	From Leg	4.00	0.0000	105.00
			0.00		
			-1.00		
DC6-48-60-18-8F	B	From Leg	4.00	0.0000	105.00
			0.00		
			3.00		
DC6-48-60-18-8F	C	From Leg	4.00	0.0000	105.00
			0.00		
			3.00		
DC9-48-60-24-8C-EV_CCIV2	B	From Leg	4.00	0.0000	105.00
			0.00		
			4.00		
(2) 2.4'' Dia x 5-ft Pipe	A	From Leg	4.00	0.0000	105.00
			0.00		
			0.00		
(2) 2.4'' Dia x 5-ft Pipe	B	From Leg	4.00	0.0000	105.00
			0.00		
			0.00		
(2) 2.4'' Dia x 5-ft Pipe	C	From Leg	4.00	0.0000	105.00
			0.00		
			0.00		
2.4'' Dia x 6-ft Pipe	A	From Leg	4.00	0.0000	105.00
			0.00		
			0.00		
2.4'' Dia x 6-ft Pipe	B	From Leg	4.00	0.0000	105.00
			0.00		
			0.00		
2.4'' Dia x 6-ft Pipe	C	From Leg	4.00	0.0000	105.00
			0.00		

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft Vert ft ft	Azimuth Adjustment °	Placement ft
			0.00		
Sector Mount [SM 503-3]	C	None		0.0000	105.00
94					
MX08FRO665-21 w/ Mount Pipe	A	From Leg	4.00 0.00 2.00	0.0000	94.00
MX08FRO665-21 w/ Mount Pipe	B	From Leg	4.00 0.00 3.00	0.0000	94.00
MX08FRO665-21 w/ Mount Pipe	C	From Leg	4.00 0.00 2.00	0.0000	94.00
TA08025-B604	A	From Leg	4.00 0.00 3.00	0.0000	94.00
TA08025-B604	B	From Leg	4.00 0.00 3.00	0.0000	94.00
TA08025-B604	C	From Leg	4.00 0.00 3.00	0.0000	94.00
TA08025-B605	A	From Leg	4.00 0.00 3.00	0.0000	94.00
TA08025-B605	B	From Leg	4.00 0.00 3.00	0.0000	94.00
TA08025-B605	C	From Leg	4.00 0.00 3.00	0.0000	94.00
RDIDC-9181-PF-48	A	From Leg	4.00 0.00 3.00	0.0000	94.00
(2) 2.4'' Dia x 8-ft Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	94.00
(2) 2.4'' Dia x 8-ft Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	94.00
(2) 2.4'' Dia x 8-ft Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	94.00
Commscope MTC3975083 (3)	C	None		0.0000	94.00
84					
AIR 32 B2A/B66AA w/ Mount Pipe	A	From Leg	4.00 0.00 1.00	0.0000	85.00
AIR 32 B2A/B66AA w/ Mount Pipe	B	From Leg	4.00 0.00 1.00	0.0000	85.00
AIR 32 B2A/B66AA w/ Mount Pipe	C	From Leg	4.00 0.00 1.00	0.0000	85.00
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	A	From Leg	4.00 0.00 1.00	0.0000	85.00
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	B	From Leg	4.00 0.00	0.0000	85.00

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft Vert ft ft	Azimuth Adjustment °	Placement ft
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	C	From Leg	1.00 4.00 0.00	0.0000	85.00
APXVAARR24_43-U-NA20 w/ Mount Pipe	A	From Leg	1.00 4.00 0.00	0.0000	85.00
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Leg	0.00 4.00 0.00	0.0000	85.00
APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Leg	0.00 4.00 0.00	0.0000	85.00
KRY 112 144/1	A	From Leg	0.00 4.00 0.00	0.0000	85.00
KRY 112 144/1	B	From Leg	0.00 4.00 0.00	0.0000	85.00
KRY 112 144/1	C	From Leg	0.00 4.00 0.00	0.0000	85.00
RADIO 4449 B12/B71	A	From Leg	0.00 4.00 0.00	0.0000	85.00
RADIO 4449 B12/B71	B	From Leg	2.00 4.00 0.00	0.0000	85.00
RADIO 4449 B12/B71	C	From Leg	2.00 4.00 0.00	0.0000	85.00
Sitepro VFA12-U (1)	A	From Leg	0.00 2.00 0.00	0.0000	85.00
Sitepro VFA12-U (1)	B	From Leg	0.00 2.00 0.00	0.0000	85.00
Sitepro VFA12-U (1)	C	From Leg	0.00 2.00 0.00	0.0000	85.00
63 ALFOPLUS2_CCIV3	C	From Leg	0.00 4.00 0.00	0.0000	64.00
Side Arm Mount [SO 311-1]	C	From Leg	-1.00 1.50 0.00	0.0000	64.00
*** 57 *** GPS-TMG-20N w/ Mount Pipe	A	From Leg	0.00 3.00 0.00	0.0000	57.00
Side Arm Mount [SO 305-1]	A	From Leg	3.00 1.50 0.00	0.0000	57.00
46 KS24019-L112A w/ Mount Pipe	B	From Leg	0.00 4.00 0.00 1.00	0.0000	46.00

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
2.4'' Dia x 2.5-ft Mount Pipe	B	From Leg	0.50 0.00 0.00	0.0000	46.00
****** ***					

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft		Aperture Area ft²	Weight K
SB1-190BB	C	Paraboloid w/Shroud (HP)	From Leg	4.00 0.00 1.00	-90.0000		64.00	1.25	No Ice 1/2'' Ice 1'' Ice 2'' Ice	1.23 1.40 1.57 1.90	0.01 0.02 0.02 0.04
****** ***											

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
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

Comb. No.	Description
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
T1	132 - 120	Leg	Max Tension	7	4.66	-0.02	0.01
			Max. Compression	2	-8.33	0.03	-0.01
			Max. Mx	14	-1.46	0.83	0.02
			Max. My	11	-1.34	-0.21	-0.86
			Max. Vy	14	0.63	-0.42	0.02
			Max. Vx	10	-0.64	-0.21	0.41
		Diagonal	Max Tension	12	2.00	0.00	0.00
			Max. Compression	13	-1.92	0.00	0.00
			Max. Mx	28	0.10	0.02	0.00
			Max. My	24	-1.89	0.00	-0.00
			Max. Vy	28	-0.02	0.02	0.00
			Max. Vx	24	0.00	0.00	0.00
		Top Girt	Max Tension	6	0.13	0.00	0.00
			Max. Compression	3	-0.09	0.00	0.00
			Max. Mx	26	0.03	-0.06	0.00
			Max. My	26	0.02	0.00	0.00
			Max. Vy	26	-0.04	0.00	0.00
			Max. Vx	26	-0.00	0.00	0.00
T2	120 - 100	Leg	Max Tension	7	18.20	0.06	0.01
			Max. Compression	2	-27.11	0.07	-0.02
			Max. Mx	14	7.28	0.65	0.04
			Max. My	22	-10.07	0.12	0.56
			Max. Vy	6	-1.06	0.06	0.01
			Max. Vx	11	-0.84	0.04	0.15
		Diagonal	Max Tension	12	4.07	0.00	0.00
			Max. Compression	13	-3.99	0.00	0.00
			Max. Mx	28	-0.06	0.03	0.00
			Max. My	12	-3.98	0.00	0.01
			Max. Vy	30	0.03	0.02	-0.00
			Max. Vx	32	-0.00	0.00	0.00
		Top Girt	Max Tension	29	0.12	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	3	-0.02	0.00	0.00
			Max. Mx	26	0.11	-0.06	0.00
			Max. My	26	0.09	0.00	0.00
			Max. Vy	26	0.04	0.00	0.00
			Max. Vx	26	-0.00	0.00	0.00
T3	100 - 93.3333	Leg	Max Tension	7	23.71	-0.12	0.01
			Max. Compression	2	-35.03	0.28	-0.04
			Max. Mx	18	-33.90	0.28	-0.00
			Max. My	8	-5.98	-0.04	0.27
			Max. Vy	14	0.48	-0.23	0.04
			Max. Vx	20	0.38	0.02	-0.06
		Diagonal	Max Tension	13	4.42	0.00	0.00
			Max. Compression	12	-4.56	0.00	0.00
			Max. Mx	28	0.27	0.06	0.01
			Max. My	12	0.79	0.04	0.01
			Max. Vy	28	-0.04	0.06	0.01
			Max. Vx	31	-0.00	0.00	0.00
T4	93.3333 - 86.6667	Leg	Max Tension	7	30.68	-0.03	-0.00
			Max. Compression	2	-43.17	-0.09	-0.02
			Max. Mx	18	-42.04	0.28	-0.00
			Max. My	4	-6.60	-0.07	-0.32
			Max. Vy	18	0.09	0.28	-0.00
			Max. Vx	4	0.10	-0.07	-0.32
		Diagonal	Max Tension	12	4.77	0.00	0.00
			Max. Compression	12	-4.78	0.00	0.00
			Max. Mx	28	1.21	0.05	-0.01
			Max. My	24	-4.73	-0.01	-0.01
			Max. Vy	28	0.04	0.04	0.01
			Max. Vx	38	0.00	0.00	0.00
T5	86.6667 - 80	Leg	Max Tension	7	38.56	-0.03	-0.00
			Max. Compression	2	-52.88	-0.01	-0.03
			Max. Mx	2	-52.85	0.45	0.00
			Max. My	4	-6.84	-0.07	-0.32
			Max. Vy	2	-0.39	0.45	0.00
			Max. Vx	2	-0.31	-0.06	-0.30
		Diagonal	Max Tension	13	5.85	0.03	-0.00
			Max. Compression	12	-5.90	0.00	0.00
			Max. Mx	27	1.42	0.07	0.01
			Max. My	38	0.52	0.07	-0.01
			Max. Vy	27	-0.04	0.07	0.01
			Max. Vx	38	0.00	0.00	0.00
		Secondary Horizontal	Max Tension	24	0.42	0.00	0.00
			Max. Compression	25	-0.39	0.00	0.00
			Max. Mx	31	-0.04	0.03	0.00
			Max. My	8	-0.37	0.01	0.00
			Max. Vy	31	-0.03	0.03	0.00
			Max. Vx	30	0.00	0.00	0.00
T6	80 - 60	Leg	Max Tension	7	61.28	-0.11	-0.01
			Max. Compression	2	-78.83	0.15	-0.02
			Max. Mx	22	57.51	-0.18	-0.00
			Max. My	4	-9.14	-0.02	-0.23
			Max. Vy	22	0.06	-0.18	-0.00
			Max. Vx	17	-0.09	-0.01	0.23
		Diagonal	Max Tension	12	5.59	0.00	0.00
			Max. Compression	12	-5.60	0.00	0.00
			Max. Mx	31	1.21	0.08	-0.01
			Max. My	32	-2.04	0.06	0.01
			Max. Vy	29	0.05	0.07	0.01
			Max. Vx	32	-0.00	0.00	0.00
T7	60 - 40	Leg	Max Tension	7	82.08	-0.35	-0.01

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Compression	2	-103.46	0.42	-0.08
			Max. Mx	37	-0.09	-0.56	-0.02
			Max. My	2	35.61	-0.17	-0.26
			Max. Vy	37	0.15	-0.56	-0.02
			Max. Vx	2	-0.08	-0.11	-0.21
		Diagonal	Max Tension	12	5.90	0.00	0.00
			Max. Compression	12	-5.88	0.00	0.00
			Max. Mx	31	0.80	0.11	0.01
			Max. My	32	-1.55	0.07	0.01
			Max. Vy	29	0.06	0.11	0.01
			Max. Vx	32	-0.00	0.00	0.00
T8	40 - 20	Leg	Max Tension	7	99.62	-0.26	-0.02
			Max. Compression	2	-124.72	0.72	-0.09
			Max. Mx	37	1.57	-0.99	-0.02
			Max. My	4	-11.71	-0.08	-0.69
			Max. Vy	37	0.18	-0.99	-0.02
			Max. Vx	4	-0.16	-0.08	-0.69
		Diagonal	Max Tension	12	6.65	0.00	0.00
			Max. Compression	12	-6.73	0.00	0.00
			Max. Mx	29	0.66	0.15	-0.02
			Max. My	27	1.64	0.13	-0.02
			Max. Vy	29	0.08	0.13	0.02
			Max. Vx	27	0.00	0.00	0.00
T9	20 - 10	Leg	Max Tension	7	108.88	-0.55	-0.02
			Max. Compression	2	-136.21	-0.36	-0.05
			Max. Mx	37	5.06	-0.99	-0.02
			Max. My	4	-12.94	-0.15	-1.02
			Max. Vy	37	-0.22	-0.99	-0.02
			Max. Vx	4	0.19	-0.15	-1.02
		Diagonal	Max Tension	12	6.80	0.00	0.00
			Max. Compression	12	-6.78	0.00	0.00
			Max. Mx	29	0.25	0.23	-0.02
			Max. My	32	-2.83	0.20	0.03
			Max. Vy	29	0.09	0.23	-0.02
			Max. Vx	32	-0.01	0.00	0.00
T10	10 - 0	Leg	Max Tension	15	117.39	0.09	0.07
			Max. Compression	2	-146.62	0.00	0.00
			Max. Mx	2	-146.44	1.24	0.01
			Max. My	4	-13.34	-0.15	-1.02
			Max. Vy	2	-0.35	1.24	0.01
			Max. Vx	4	-0.26	-0.15	-1.02
		Diagonal	Max Tension	13	6.86	0.10	-0.01
			Max. Compression	12	-7.29	0.00	0.00
			Max. Mx	2	5.63	0.15	0.02
			Max. My	27	2.16	0.14	-0.03
			Max. Vy	30	0.08	0.14	0.03
			Max. Vx	27	0.01	0.00	0.00
		Secondary Horizontal	Max Tension	4	0.41	0.00	0.00
			Max. Compression	5	-0.34	0.00	0.00
			Max. Mx	28	-0.01	0.09	0.01
			Max. My	30	-0.17	0.08	0.01
			Max. Vy	28	0.05	0.09	0.01
			Max. Vx	30	-0.00	0.00	0.00

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Leg C	Max. Vert	18	147.92	15.02	-8.56
	Max. H_x	18	147.92	15.02	-8.56
	Max. H_z	7	-121.77	-12.73	7.23
	Min. Vert	7	-121.77	-12.73	7.23
	Min. H_x	7	-121.77	-12.73	7.23
	Min. H_z	18	147.92	15.02	-8.56
Leg B	Max. Vert	10	149.41	-14.69	-9.12
	Max. H_x	23	-119.42	12.37	7.72
	Max. H_z	25	-104.57	10.21	8.21
	Min. Vert	23	-119.42	12.37	7.72
	Min. H_x	10	149.41	-14.69	-9.12
	Min. H_z	12	129.33	-11.86	-9.21
Leg A	Max. Vert	2	152.39	0.84	17.74
	Max. H_x	22	79.46	2.31	8.81
	Max. H_z	2	152.39	0.84	17.74
	Min. Vert	15	-121.92	-0.80	-15.01
	Min. H_x	11	-56.85	-2.39	-7.26
	Min. H_z	15	-121.92	-0.80	-15.01

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	33.77	0.00	-0.00	-12.19	-17.24	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	40.52	-0.01	-28.34	-2257.71	-20.01	26.55
0.9 Dead+1.0 Wind 0 deg - No Ice	30.39	-0.01	-28.34	-2254.06	-14.84	26.55
1.2 Dead+1.0 Wind 30 deg - No Ice	40.52	13.50	-23.41	-1894.00	-1104.52	13.76
0.9 Dead+1.0 Wind 30 deg - No Ice	30.39	13.50	-23.41	-1890.35	-1099.35	13.76
1.2 Dead+1.0 Wind 60 deg - No Ice	40.52	22.69	-13.10	-1077.07	-1861.26	3.34
0.9 Dead+1.0 Wind 60 deg - No Ice	30.39	22.69	-13.10	-1073.41	-1856.09	3.34
1.2 Dead+1.0 Wind 90 deg - No Ice	40.52	26.41	0.01	-13.96	-2158.63	-2.99
0.9 Dead+1.0 Wind 90 deg - No Ice	30.39	26.41	0.01	-10.30	-2153.46	-2.99
1.2 Dead+1.0 Wind 120 deg - No Ice	40.52	23.84	13.77	1085.14	-1924.44	-17.02
0.9 Dead+1.0 Wind 120 deg - No Ice	30.39	23.84	13.77	1088.79	-1919.27	-17.02
1.2 Dead+1.0 Wind 150 deg - No Ice	40.52	13.52	23.42	1857.62	-1101.63	-31.13
0.9 Dead+1.0 Wind 150 deg - No Ice	30.39	13.52	23.42	1861.28	-1096.46	-31.13
1.2 Dead+1.0 Wind 180 deg - No Ice	40.52	0.01	26.95	2142.98	-21.23	-26.63
0.9 Dead+1.0 Wind 180 deg - No Ice	30.39	0.01	26.95	2146.64	-16.06	-26.63
1.2 Dead+1.0 Wind 210 deg - No Ice	40.52	-13.50	23.41	1864.47	1063.45	-13.83
0.9 Dead+1.0 Wind 210 deg - No Ice	30.39	-13.50	23.41	1868.13	1068.62	-13.83
1.2 Dead+1.0 Wind 240 deg - No Ice	40.52	-23.89	13.80	1090.67	1893.38	-3.28

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
0.9 Dead+1.0 Wind 240 deg - No Ice	30.39	-23.89	13.80	1094.33	1898.55	-3.28
1.2 Dead+1.0 Wind 270 deg - No Ice	40.52	-26.41	-0.02	-15.68	2117.36	2.92
0.9 Dead+1.0 Wind 270 deg - No Ice	30.39	-26.41	-0.02	-12.03	2122.53	2.92
1.2 Dead+1.0 Wind 300 deg - No Ice	40.52	-22.64	-13.09	-1072.17	1809.69	16.95
0.9 Dead+1.0 Wind 300 deg - No Ice	30.39	-22.64	-13.09	-1068.51	1814.86	16.95
1.2 Dead+1.0 Wind 330 deg - No Ice	40.52	-13.53	-23.43	-1887.23	1060.46	31.06
0.9 Dead+1.0 Wind 330 deg - No Ice	30.39	-13.53	-23.43	-1883.57	1065.63	31.06
1.2 Dead+1.0 Ice+1.0 Temp	97.48	0.00	-0.00	-23.24	-76.45	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	97.48	-0.00	-8.61	-705.45	-76.28	9.60
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	97.48	4.19	-7.26	-603.85	-411.36	5.79
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	97.48	7.15	-4.13	-355.43	-651.90	2.04
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	97.48	8.31	0.00	-23.08	-743.84	-2.08
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	97.48	7.39	4.27	316.50	-664.62	-7.26
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	97.48	4.22	7.31	558.85	-412.52	-10.67
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	97.48	0.00	8.39	646.01	-76.58	-9.62
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	97.48	-4.19	7.26	557.30	258.54	-5.81
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	97.48	-7.34	4.24	315.44	510.08	-2.03
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	97.48	-8.31	-0.00	-23.50	590.97	2.07
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	97.48	-7.21	-4.16	-356.64	500.67	7.24
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	97.48	-4.22	-7.31	-605.43	259.68	10.65
Dead+Wind 0 deg - Service	33.77	-0.00	-7.73	-623.11	-17.05	7.23
Dead+Wind 30 deg - Service	33.77	3.68	-6.38	-524.06	-312.44	3.75
Dead+Wind 60 deg - Service	33.77	6.19	-3.57	-301.56	-518.55	0.91
Dead+Wind 90 deg - Service	33.77	7.20	0.00	-12.01	-599.55	-0.81
Dead+Wind 120 deg - Service	33.77	6.50	3.76	287.35	-535.75	-4.63
Dead+Wind 150 deg - Service	33.77	3.69	6.39	497.75	-311.65	-8.47
Dead+Wind 180 deg - Service	33.77	0.00	7.35	575.47	-17.39	-7.25
Dead+Wind 210 deg - Service	33.77	-3.68	6.38	499.61	278.04	-3.77
Dead+Wind 240 deg - Service	33.77	-6.51	3.76	288.85	504.08	-0.90
Dead+Wind 270 deg - Service	33.77	-7.20	-0.00	-12.47	565.10	0.79
Dead+Wind 300 deg - Service	33.77	-6.18	-3.57	-300.23	481.30	4.61
Dead+Wind 330 deg - Service	33.77	-3.69	-6.39	-522.22	277.23	8.45

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	-33.77	0.00	-0.00	33.77	0.00	0.000%
2	-0.01	-40.52	-28.34	0.01	40.52	28.34	0.000%
3	-0.01	-30.39	-28.34	0.01	30.39	28.34	0.000%

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX K	PY K	PZ K	PX K	PY K	PZ K	% Error
4	13.50	-40.52	-23.41	-13.50	40.52	23.41	0.000%
5	13.50	-30.39	-23.41	-13.50	30.39	23.41	0.000%
6	22.69	-40.52	-13.10	-22.69	40.52	13.10	0.000%
7	22.69	-30.39	-13.10	-22.69	30.39	13.10	0.000%
8	26.41	-40.52	0.01	-26.41	40.52	-0.01	0.000%
9	26.41	-30.39	0.01	-26.41	30.39	-0.01	0.000%
10	23.84	-40.52	13.77	-23.84	40.52	-13.77	0.000%
11	23.84	-30.39	13.77	-23.84	30.39	-13.77	0.000%
12	13.52	-40.52	23.42	-13.52	40.52	-23.42	0.000%
13	13.52	-30.39	23.42	-13.52	30.39	-23.42	0.000%
14	0.01	-40.52	26.95	-0.01	40.52	-26.95	0.000%
15	0.01	-30.39	26.95	-0.01	30.39	-26.95	0.000%
16	-13.50	-40.52	23.41	13.50	40.52	-23.41	0.000%
17	-13.50	-30.39	23.41	13.50	30.39	-23.41	0.000%
18	-23.89	-40.52	13.80	23.89	40.52	-13.80	0.000%
19	-23.89	-30.39	13.80	23.89	30.39	-13.80	0.000%
20	-26.41	-40.52	-0.02	26.41	40.52	0.02	0.000%
21	-26.41	-30.39	-0.02	26.41	30.39	0.02	0.000%
22	-22.64	-40.52	-13.09	22.64	40.52	13.09	0.000%
23	-22.64	-30.39	-13.09	22.64	30.39	13.09	0.000%
24	-13.53	-40.52	-23.43	13.53	40.52	23.43	0.000%
25	-13.53	-30.39	-23.43	13.53	30.39	23.43	0.000%
26	0.00	-97.48	0.00	-0.00	97.48	0.00	0.000%
27	-0.00	-97.48	-8.61	0.00	97.48	8.61	0.000%
28	4.19	-97.48	-7.26	-4.19	97.48	7.26	0.000%
29	7.15	-97.48	-4.13	-7.15	97.48	4.13	0.000%
30	8.31	-97.48	0.00	-8.31	97.48	-0.00	0.000%
31	7.39	-97.48	4.27	-7.39	97.48	-4.27	0.000%
32	4.22	-97.48	7.31	-4.22	97.48	-7.31	0.000%
33	0.00	-97.48	8.39	-0.00	97.48	-8.39	0.000%
34	-4.19	-97.48	7.26	4.19	97.48	-7.26	0.000%
35	-7.34	-97.48	4.24	7.34	97.48	-4.24	0.000%
36	-8.31	-97.48	-0.00	8.31	97.48	0.00	0.000%
37	-7.21	-97.48	-4.16	7.21	97.48	4.16	0.000%
38	-4.22	-97.48	-7.31	4.22	97.48	7.31	0.000%
39	-0.00	-33.77	-7.73	0.00	33.77	7.73	0.000%
40	3.68	-33.77	-6.38	-3.68	33.77	6.38	0.000%
41	6.19	-33.77	-3.57	-6.19	33.77	3.57	0.000%
42	7.20	-33.77	0.00	-7.20	33.77	-0.00	0.000%
43	6.50	-33.77	3.76	-6.50	33.77	-3.76	0.000%
44	3.69	-33.77	6.39	-3.69	33.77	-6.39	0.000%
45	0.00	-33.77	7.35	-0.00	33.77	-7.35	0.000%
46	-3.68	-33.77	6.38	3.68	33.77	-6.38	0.000%
47	-6.51	-33.77	3.76	6.51	33.77	-3.76	0.000%
48	-7.20	-33.77	-0.00	7.20	33.77	0.00	0.000%
49	-6.18	-33.77	-3.57	6.18	33.77	3.57	0.000%
50	-3.69	-33.77	-6.39	3.69	33.77	6.39	0.000%

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	132 - 120	2.402	39	0.1618	0.0417
T2	120 - 100	1.997	39	0.1541	0.0376
T3	100 - 93.3333	1.373	39	0.1321	0.0277
T4	93.3333 - 86.6667	1.190	39	0.1233	0.0252
T5	86.6667 - 80	1.016	39	0.1127	0.0227

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T6	80 - 60	0.860	39	0.1006	0.0201
T7	60 - 40	0.477	39	0.0684	0.0126
T8	40 - 20	0.218	39	0.0425	0.0069
T9	20 - 10	0.063	39	0.0219	0.0031
T10	10 - 0	0.018	39	0.0110	0.0015

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
130.00	ANT450D6-9	39	2.334	0.1607	0.0411	217938
112.00	(2) SBNHH-1D65B w/ Mount Pipe	39	1.736	0.1465	0.0337	54322
105.00	DMP65R-BU6D w/ Mount Pipe	39	1.519	0.1384	0.0301	40191
94.00	MX08FRO665-21 w/ Mount Pipe	39	1.208	0.1243	0.0255	63955
85.00	AIR 32 B2A/B66AA w/ Mount Pipe	39	0.975	0.1097	0.0221	28516
65.00	SB1-190BB	39	0.561	0.0758	0.0143	37793
64.00	ALFOPLUS2_CCIV3	39	0.543	0.0743	0.0140	37591
57.00	GPS-TMG-20N w/ Mount Pipe	39	0.430	0.0641	0.0116	37831
46.00	KS24019-L112A w/ Mount Pipe	39	0.283	0.0496	0.0083	42047

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	132 - 120	8.627	2	0.5682	0.1535
T2	120 - 100	7.196	2	0.5470	0.1382
T3	100 - 93.3333	4.966	2	0.4742	0.1020
T4	93.3333 - 86.6667	4.307	2	0.4434	0.0928
T5	86.6667 - 80	3.681	2	0.4058	0.0836
T6	80 - 60	3.118	2	0.3631	0.0740
T7	60 - 40	1.731	2	0.2472	0.0462
T8	40 - 20	0.791	2	0.1539	0.0252
T9	20 - 10	0.230	2	0.0794	0.0114
T10	10 - 0	0.065	2	0.0398	0.0057

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
130.00	ANT450D6-9	2	8.388	0.5654	0.1512	86481
112.00	(2) SBNHH-1D65B w/ Mount Pipe	2	6.267	0.5227	0.1239	17068
105.00	DMP65R-BU6D w/ Mount Pipe	2	5.490	0.4956	0.1105	11672
94.00	MX08FRO665-21 w/ Mount Pipe	2	4.371	0.4467	0.0937	18702
85.00	AIR 32 B2A/B66AA w/ Mount Pipe	2	3.534	0.3953	0.0812	8006
65.00	SB1-190BB	2	2.036	0.2740	0.0527	10503
64.00	ALFOPLUS2_CCIV3	2	1.972	0.2685	0.0513	10440
57.00	GPS-TMG-20N w/ Mount Pipe	2	1.562	0.2317	0.0425	10475

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
46.00	KS24019-L112A w/ Mount Pipe	2	1.029	0.1793	0.0307	11621

Bolt Design Data

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load / Allowable	Allowable Ratio	Criteria
T1	132	Leg	A325X	0.6250	4	1.17	20.34	0.057	1.05	Bolt Tension
		Diagonal	A325X	0.6250	1	2.00	6.79	0.294	1.05	Member Block Shear
		Top Girt	A325X	0.6250	1	0.13	7.83	0.016	1.05	Member Bearing
T2	120	Leg	A325X	0.7500	4	4.29	30.10	0.142	1.05	Bolt Tension
		Diagonal	A325X	0.6250	1	4.07	6.79	0.600	1.05	Member Block Shear
		Top Girt	A325X	0.6250	1	0.47	7.83	0.060	1.05	Member Bearing
T3	100	Diagonal	A325X	0.6250	1	4.42	7.83	0.564	1.05	Member Bearing
T4	93.3333	Diagonal	A325X	0.6250	1	4.77	7.83	0.610	1.05	Member Bearing
T5	86.6667	Leg	A325X	0.8750	4	9.46	41.56	0.228	1.05	Bolt Tension
		Diagonal	A325X	0.6250	1	5.85	7.83	0.747	1.05	Member Bearing
		Secondary Horizontal	A325N	0.6250	1	0.92	5.46	0.168	1.05	Member Block Shear
T6	80	Leg	A325X	0.8750	4	15.32	41.56	0.369	1.05	Bolt Tension
		Diagonal	A325X	0.6250	1	5.59	7.83	0.714	1.05	Member Bearing
T7	60	Leg	A325X	1.0000	4	20.52	54.52	0.376	1.05	Bolt Tension
		Diagonal	A325X	0.6250	1	5.90	7.83	0.753	1.05	Member Bearing
T8	40	Leg	A325X	1.0000	4	24.90	54.52	0.457	1.05	Bolt Tension
		Diagonal	A325X	0.6250	1	6.65	11.70	0.568	1.05	Member Bearing
T9	20	Diagonal	A325X	0.6250	1	6.80	11.70	0.581	1.05	Member Bearing
T10	10	Diagonal	A325X	0.7500	1	6.86	14.14	0.485	1.05	Member Bearing
		Secondary Horizontal	A325N	0.6250	1	2.54	9.53	0.267	1.05	Member Block Shear

Compression Checks

Leg Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	132 - 120	ROHN 2 STD	12.00	4.00	61.0 K=1.00	1.0745	-8.33	36.84	0.226 [1]
T2	120 - 100	ROHN 2.5 STD	20.03	5.01	63.4 K=1.00	1.7040	-27.11	57.13	0.475 [1]
T3	100 - 93.3333	ROHN 3 STD	6.68	6.68	68.9 K=1.00	2.2285	-35.03	70.89	0.494 [1]
T4	93.3333 - 86.6667	ROHN 3 STD	6.68	6.68	68.9 K=1.00	2.2285	-43.17	70.87	0.609 [1]
T5	86.6667 - 80	ROHN 3 STD	6.67	3.43	35.4 K=1.00	2.2285	-52.88	91.52	0.578 [1]

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	
T6	80 - 60	ROHN 3 X-STR	20.04	6.68	70.5 K=1.00	3.0159	-78.83	94.34	0.836 [1]
T7	60 - 40	ROHN 4 X-STR	20.03	6.68	54.3 K=1.00	4.4074	-103.45	159.91	0.647 [1]
T8	40 - 20	ROHN 5 X-STR	20.03	10.02	65.4 K=1.00	6.1120	-124.72	201.25	0.620 [1]
T9	20 - 10	ROHN 5 X-STR	10.02	10.02	65.4 K=1.00	6.1120	-136.21	201.25	0.677 [1]
T10	10 - 0	ROHN 5 X-STR	10.02	5.15	33.6 K=1.00	6.1120	-146.62	253.28	0.579 [1]

[1] P_u / ϕP_n controls

Diagonal Design Data (Compression)

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	
T1	132 - 120	L1 3/4x1 3/4x3/16	7.74	3.64	127.1 K=1.00	0.6211	-1.92	11.00	0.175 [1]
T2	120 - 100	L1 3/4x1 3/4x3/16	9.80	4.79	167.4 K=1.00	0.6211	-3.99	6.34	0.629 [1]
T3	100 - 93.3333	L2 1/2x2 1/2x3/16	11.22	5.52	133.7 K=1.00	0.9020	-4.56	14.44	0.316 [1]
T4	93.3333 - 86.6667	L2 1/2x2 1/2x3/16	11.80	5.84	141.5 K=1.00	0.9020	-4.78	12.89	0.371 [1]
T5	86.6667 - 80	L2 1/2x2 1/2x3/16	12.36	6.05	146.8 K=1.00	0.9020	-5.90	11.98	0.492 [1]
T6	80 - 60	L2 1/2x2 1/2x3/16	14.09	6.96	168.7 K=1.00	0.9020	-5.60	9.08	0.617 [1]
T7	60 - 40	L3x3x3/16	15.90	7.81	157.2 K=1.00	1.0900	-5.88	12.62	0.466 [1]
T8	40 - 20	L3x3x1/4	19.10	9.45	191.6 K=1.00	1.4400	-6.73	11.23	0.599 [1]
T9	20 - 10	L3 1/2x3 1/2x1/4	19.96	9.88	170.9 K=1.00	1.6900	-6.78	16.57	0.409 [1]
T10	10 - 0	L3 1/2x3 1/2x1/4	20.83	10.30	178.1 K=1.00	1.6900	-7.29	15.25	0.478 [1]

[1] P_u / ϕP_n controls

Secondary Horizontal Design Data (Compression)

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	
T5	86.6667 - 80	L1 1/2x1 1/2x3/16	10.40	4.92	201.1 K=1.00	0.5273	-0.92	3.73	0.246 [1]
T10	10 - 0	L2 1/2x2 1/2x3/16	18.26	8.76	212.4 K=1.00	0.9020	-2.54	5.72	0.444 [1]

[1] P_u / ϕP_n controls

Top Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	132 - 120	L2x2x3/16	6.60	6.17	187.8 K=1.00	0.7150	-0.09	5.80	0.016 [1]
T2	120 - 100	L2x2x3/16	6.65	6.17	187.8 K=1.00	0.7150	-0.47	5.80	0.081 [1]

[1] P_u / ϕP_n controls

Tension Checks

Leg Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	132 - 120	ROHN 2 STD	12.00	4.00	61.0	1.0745	4.66	48.35	0.096 [1]
T2	120 - 100	ROHN 2.5 STD	20.03	5.01	63.4	1.7040	17.15	76.68	0.224 [1]
T3	100 - 93.3333	ROHN 3 STD	6.68	6.68	68.9	2.2285	23.71	100.28	0.236 [1]
T4	93.3333 - 86.6667	ROHN 3 STD	6.68	6.68	68.9	2.2285	30.68	100.28	0.306 [1]
T5	86.6667 - 80	ROHN 3 STD	6.67	3.25	33.5	2.2285	38.56	100.28	0.385 [1]
T6	80 - 60	ROHN 3 X-STR	20.04	6.68	70.5	3.0159	61.28	135.72	0.452 [1]
T7	60 - 40	ROHN 4 X-STR	20.03	6.68	54.3	4.4074	82.08	198.34	0.414 [1]
T8	40 - 20	ROHN 5 X-STR	20.03	10.02	65.4	6.1120	99.62	275.04	0.362 [1]
T9	20 - 10	ROHN 5 X-STR	10.02	10.02	65.4	6.1120	108.88	275.04	0.396 [1]
T10	10 - 0	ROHN 5 X-STR	10.02	4.87	31.8	6.1120	117.39	275.04	0.427 [1]

[1] P_u / ϕP_n controls

Diagonal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	132 - 120	L1 3/4x1 3/4x3/16	7.74	3.64	84.0	0.3604	2.00	15.68	0.127 [1]
T2	120 - 100	L1 3/4x1 3/4x3/16	9.80	4.79	109.8	0.3604	4.07	15.68	0.260 [1]
T3	100 - 93.3333	L2 1/2x2 1/2x3/16	11.22	5.52	86.9	0.5710	4.42	24.84	0.178 [1]
T4	93.3333 - 86.6667	L2 1/2x2 1/2x3/16	11.80	5.84	91.9	0.5710	4.77	24.84	0.192 [1]
T5	86.6667 - 80	L2 1/2x2 1/2x3/16	12.36	6.05	95.2	0.5710	5.85	24.84	0.235 [1]
T6	80 - 60	L2 1/2x2 1/2x3/16	13.49	6.66	104.5	0.5710	5.59	24.84	0.225 [1]
T7	60 - 40	L3x3x3/16	15.90	7.81	101.3	0.7120	5.90	30.97	0.190 [1]
T8	40 - 20	L3x3x1/4	19.10	9.45	123.5	0.9394	6.65	45.79	0.145 [1]
T9	20 - 10	L3 1/2x3 1/2x1/4	19.96	9.88	110.1	1.1269	6.80	54.94	0.124 [1]
T10	10 - 0	L3 1/2x3 1/2x1/4	20.83	10.30	114.9	1.1034	6.86	53.79	0.128 [1]

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$

[1] P_u / ϕP_n controls

Secondary Horizontal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T5	86.6667 - 80	L1 1/2x1 1/2x3/16	10.40	4.92	265.5	0.2900	0.92	12.62	0.073 [1]
T10	10 - 0	L2 1/2x2 1/2x3/16	18.26	8.76	274.5	0.5710	2.54	24.84	0.102 [1]

[1] P_u / ϕP_n controls

Top Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	132 - 120	L2x2x3/16	6.60	6.17	124.6	0.4308	0.13	18.74	0.007 [1]
T2	120 - 100	L2x2x3/16	6.65	6.17	124.6	0.4308	0.47	18.74	0.025 [1]

[1] P_u / ϕP_n controls

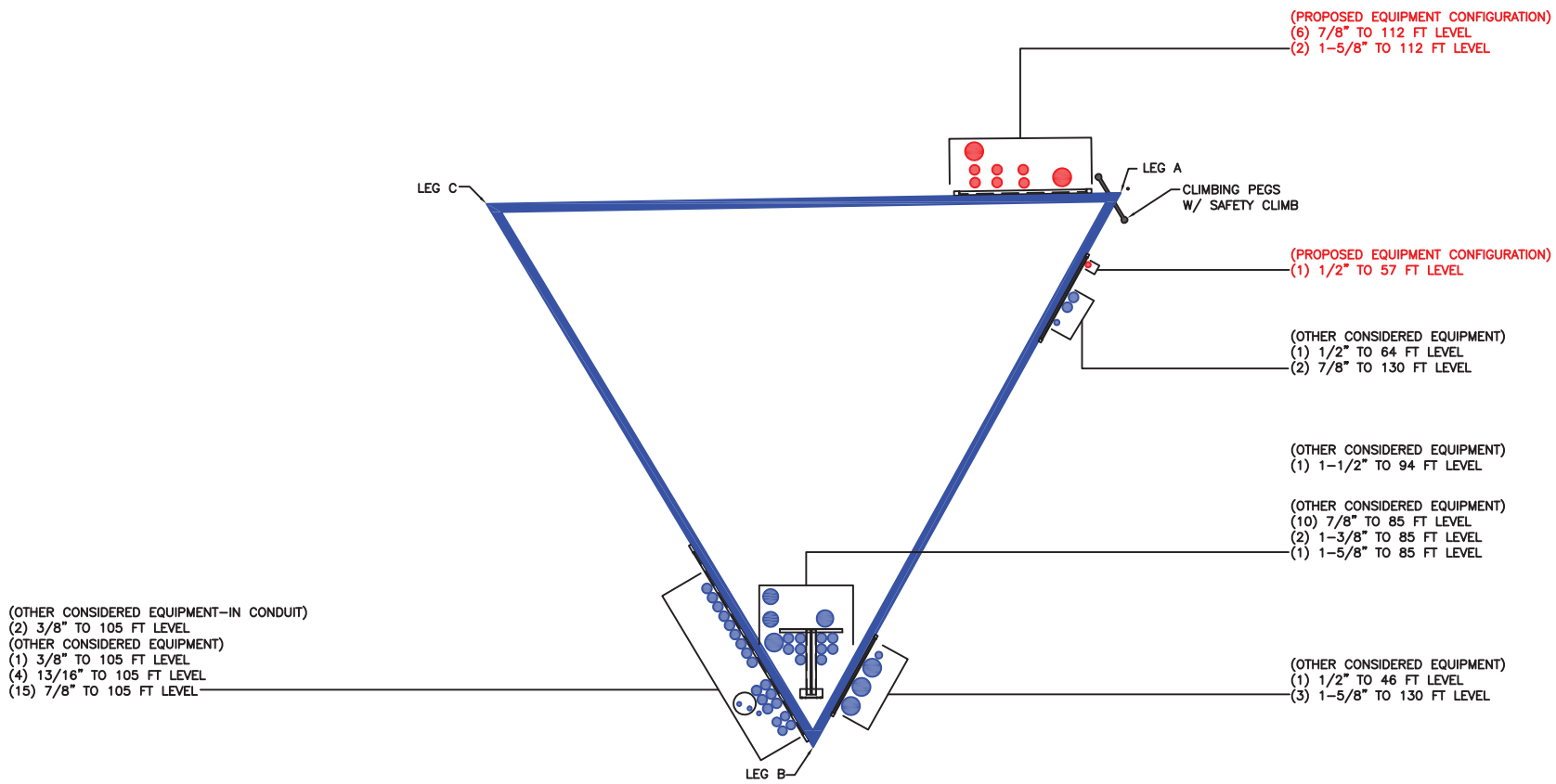
Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
T1	132 - 120	Leg	ROHN 2 STD	3	-8.33	38.68	21.5	Pass
T2	120 - 100	Leg	ROHN 2.5 STD	27	-27.11	59.99	45.2	Pass
T3	100 - 93.3333	Leg	ROHN 3 STD	57	-35.03	74.44	47.1	Pass
T4	93.3333 - 86.6667	Leg	ROHN 3 STD	66	-43.17	74.41	58.0	Pass
T5	86.6667 - 80	Leg	ROHN 3 STD	75	-52.88	96.10	55.0	Pass
T6	80 - 60	Leg	ROHN 3 X-STR	87	-78.83	99.05	79.6	Pass
T7	60 - 40	Leg	ROHN 4 X-STR	108	-103.45	167.91	61.6	Pass
T8	40 - 20	Leg	ROHN 5 X-STR	129	-124.72	211.31	59.0	Pass
T9	20 - 10	Leg	ROHN 5 X-STR	144	-136.21	211.31	64.5	Pass
T10	10 - 0	Leg	ROHN 5 X-STR	153	-146.62	265.94	55.1	Pass
T1	132 - 120	Diagonal	L1 3/4x1 3/4x3/16	15	-1.92	11.55	16.7	Pass
T2	120 - 100	Diagonal	L1 3/4x1 3/4x3/16	33	-3.99	6.66	59.9	Pass
T3	100 - 93.3333	Diagonal	L2 1/2x2 1/2x3/16	60	-4.56	15.16	30.1	Pass
T4	93.3333 - 86.6667	Diagonal	L2 1/2x2 1/2x3/16	69	-4.78	13.54	35.3	Pass
T5	86.6667 - 80	Diagonal	L2 1/2x2 1/2x3/16	78	-5.90	12.58	46.9	Pass
T6	80 - 60	Diagonal	L2 1/2x2 1/2x3/16	90	-5.60	9.53	58.7	Pass
T7	60 - 40	Diagonal	L3x3x3/16	111	-5.88	13.25	44.4	Pass
T8	40 - 20	Diagonal	L3x3x1/4	132	-6.73	11.79	57.1	Pass
T9	20 - 10	Diagonal	L3 1/2x3 1/2x1/4	147	-6.78	17.40	39.0	Pass

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
T10	10 - 0	Diagonal	L3 1/2x3 1/2x1/4	156	-7.29	16.01	45.5	Pass
T5	86.6667 - 80	Secondary Horizontal	L1 1/2x1 1/2x3/16	84	-0.92	3.92	23.4	Pass
T10	10 - 0	Secondary Horizontal	L2 1/2x2 1/2x3/16	162	-2.54	6.01	42.3	Pass
T1	132 - 120	Top Girt	L2x2x3/16	4	-0.09	6.09	1.5	Pass
T2	120 - 100	Top Girt	L2x2x3/16	29	-0.47	6.09	7.7	Pass
							Summary	
						Leg (T6)	79.6	Pass
						Diagonal (T2)	59.9	Pass
						Secondary Horizontal (T10)	42.3	Pass
						Top Girt (T2)	7.7	Pass
						Bolt Checks	71.7	Pass
						RATING =	**79.6**	**Pass**

APPENDIX B

BASE LEVEL DRAWING


(PROPOSED EQUIPMENT CONFIGURATION)
(6) 7/8" TO 112 FT LEVEL
(2) 1-5/8" TO 112 FT LEVEL
LEG A
CLIMBING PEGS
W/ SAFETY CLIMB
LEG C
(PROPOSED EQUIPMENT CONFIGURATION)
(1) 1/2" TO 57 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(1) 1/2" TO 64 FT LEVEL
(2) 7/8" TO 130 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(1) 1-1/2" TO 94 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(10) 7/8" TO 85 FT LEVEL
(2) 1-3/8" TO 85 FT LEVEL
(1) 1-5/8" TO 85 FT LEVEL
(OTHER CONSIDERED EQUIPMENT-IN CONDUIT)
(2) 3/8" TO 105 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(1) 3/8" TO 105 FT LEVEL
(4) 13/16" TO 105 FT LEVEL
(15) 7/8" TO 105 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(1) 1/2" TO 46 FT LEVEL
(3) 1-5/8" TO 130 FT LEVEL
LEG B

APPENDIX C

ADDITIONAL CALCULATIONS

Self Support Anchor Rod Capacity

Site Info	
BU #	806377
Site Name	HRT 084 943242
Order #	654599 REV. 0

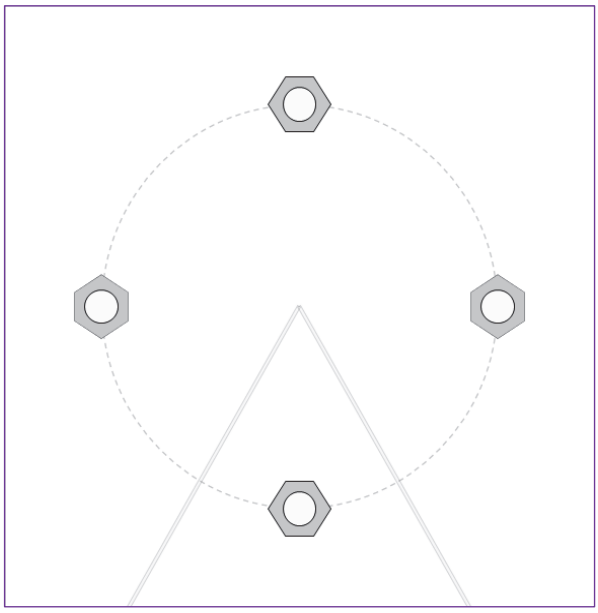
Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	Yes
l_{ar} (in)	1.375

Applied Loads		
	Comp.	Uplift
Axial Force (kips)	152.39	121.92
Shear Force (kips)	17.76	15.03

**TIA-222-H Section 15.5 Applied*

Considered Eccentricity	
Leg Mod Eccentricity (in)	0.000
Anchor Rod N.A Shift (in)	0.000
Total Eccentricity (in)	0.000

**Anchor Rod Eccentricity Applied*



Connection Properties

Anchor Rod Data

(4) 1" ø bolts (A449 N; Fy=92 ksi, Fu=120 ksi)

l_{ar} (in): 1.375

Analysis Results

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

Pu_t = 30.48	ϕPn_t = 54.54	**Stress Rating**
Vu = 3.76	ϕVn = 35.34	**53.2%**
Mu = n/a	ϕMn = n/a	**Pass**

SST Unit Base Foundation

BU # :	806377
Site Name:	HRT 084 943242
App. Number:	654599 REV. 0
TIA-222 Revision:	H

Top & Bot. Pad Rein. Different?:	☐
Tower Centroid Offset?:	☑
Block Foundation?:	☐
Rectangular Pad?:	☐

Superstructure Analysis Reactions		
Global Moment, **M**:	2257.8	ft-kips
Global Axial, **P**:	40.52	kips
Global Shear, **V**:	28.34	kips
Leg Compression, P_{comp}:	152.39	kips
Leg Comp. Shear, V_{u_comp}:	17.76	kips
Leg Uplift, P_{uplift}:	121.92	kips
Leg Uplift. Shear, V_{u_uplift}:	15.03	kips
Tower Height, **H**:	132	ft
Base Face Width, **BW**:	18.77	ft
BP Dist. Above Fdn, bp_{dist}:	2.375	in

Pier Properties		
Pier Shape:	Square	
Pier Diameter, **dpier**:	3.3	ft
Ext. Above Grade, **E**:	2.30	ft
Pier Rebar Size, **Sc**:	9	
Pier Rebar Quantity, **mc**:	12	
Pier Tie/Spiral Size, **St**:	5	
Pier Tie/Spiral Quantity, **mt**:	2	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier}:	4	in

Pad Properties		
Depth, **D**:	2.60	ft
Pad Width, W_1:	24.00	ft
Pad Thickness, **T**:	4.20	ft
Pad Rebar Size (Bottom dir. 2), Sp_2:	8	
Pad Rebar Quantity (Bottom dir. 2), mp_2:	24	
Pad Clear Cover, cc_{pad}:	3	in

Material Properties		
Rebar Grade, **Fy**:	60	ksi
Concrete Compressive Strength, **F'c**:	3	ksi
Dry Concrete Density, δc:	150	pcf

Soil Properties		
Total Soil Unit Weight, γ:	115	pcf
Ultimate Gross Bearing, Qult:	30.000	ksf
Cohesion, **Cu**:	0.000	ksf
Friction Angle, φ:	33	degrees
SPT Blow Count, N_{blows}:		
Base Friction, μ:	0.4	
Neglected Depth, **N**:	3.3	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, **gw**:	16	ft

<-- Toggle between Gross and Net

Foundation Analysis Checks	Capacity	Demand	Rating*	Check
Lateral (Sliding) (kips)	110.14	28.34	**24.5%**	**Pass**
Bearing Pressure (ksf)	22.50	1.83	**8.2%**	**Pass**
*Overturning (kip*ft)*	4280.71	2557.43	**59.7%**	**Pass**
*Pier Flexure (Comp.) (kip*ft)*	878.53	40.85	**4.4%**	**Pass**
*Pier Flexure (Tension) (kip*ft)*	650.31	34.57	**5.1%**	**Pass**
Pier Compression (kip)	4119.38	156.90	**3.6%**	**Pass**
*Pad Flexure (kip*ft)*	3850.11	155.58	**3.8%**	**Pass**
Pad Shear - 1-way (kips)	1086.07	20.85	**1.8%**	**Pass**
Pad Shear - Comp 2-way (ksi)	0.164	0.013	**7.5%**	**Pass**
*Flexural 2-way (Comp) (kip*ft)*	1648.65	24.51	**1.4%**	**Pass**
Pad Shear - Tension 2-way (ksi)	0.164	0.011	**6.7%**	**Pass**
*Flexural 2-way (Tension) (kip*ft)*	1648.65	20.74	**1.2%**	**Pass**

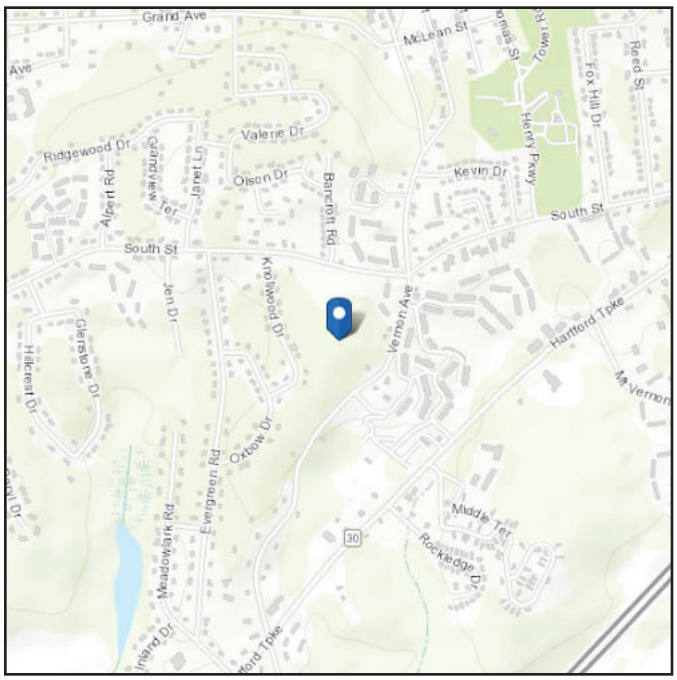
**Rating per TIA-222-H Section 15.5*

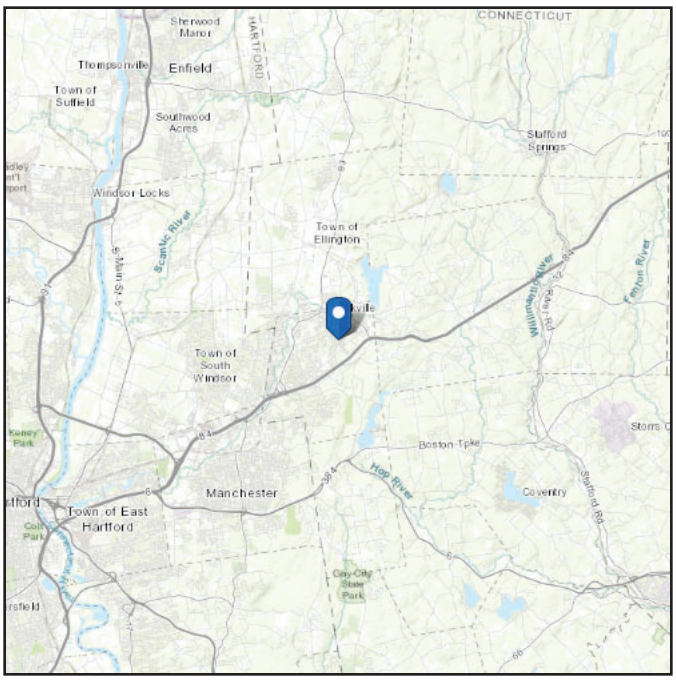
Structural Rating*:	**7.5%**
Soil Rating*:	**59.7%**

ASCE Hazards Report

Address:
No Address at This Location

Standard:	ASCE/SEI 7-16	**Latitude:**	41.853475
Risk Category:	II	**Longitude:**	-72.452089
Soil Class:	D - Default (see Section 11.4.3)	**Elevation:**	649.7521495748765 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:	Thu Jan 18 2024

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.

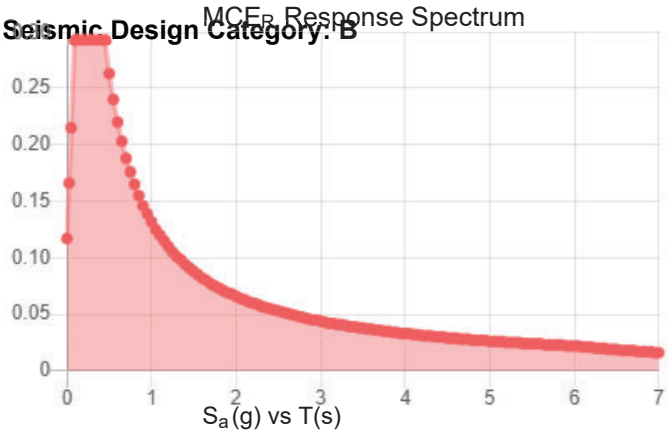
Seismic

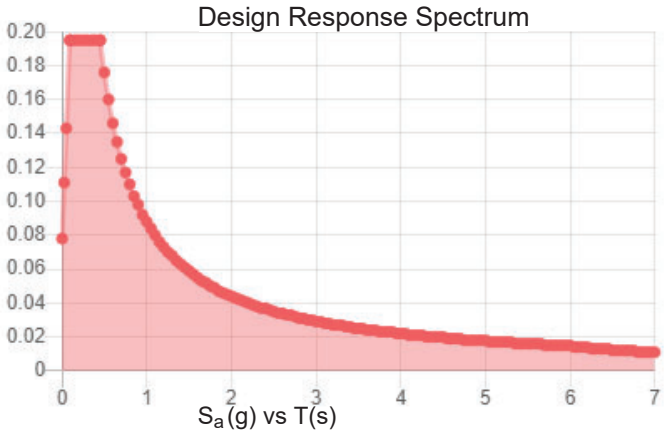
Site Soil Class: D - Default (see Section 11.4.3)

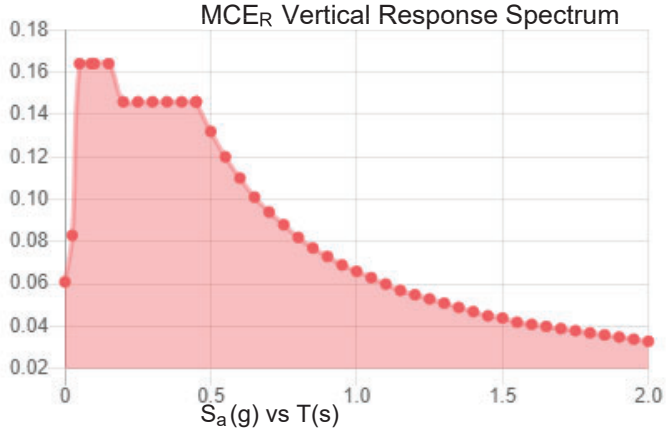
Results:

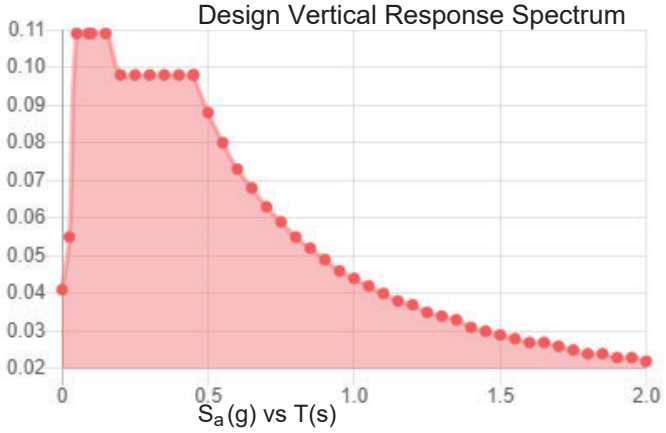
S_S :	0.183	S_{D1} :	0.088
S_1 :	0.055	T_L :	6
F_a :	1.6	PGA :	0.098
F_v :	2.4	PGA_M :	0.156
S_{MS} :	0.293	F_{PGA} :	1.6
S_{M1} :	0.132	I_e :	1
S_{DS} :	0.195	C_v :	0.7

Seismic Design Category: B









Data Accessed: Thu Jan 18 2024

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:	1.50 in.
Concurrent Temperature:	5 F
Gust Speed	50 mph
Data Source:	Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8
Date Accessed:	Thu Jan 18 2024

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

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

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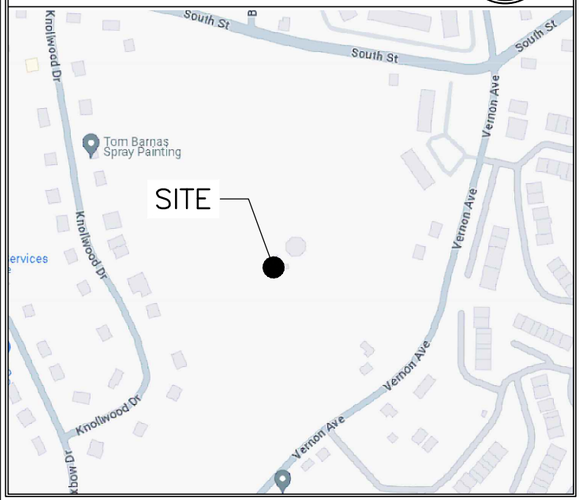
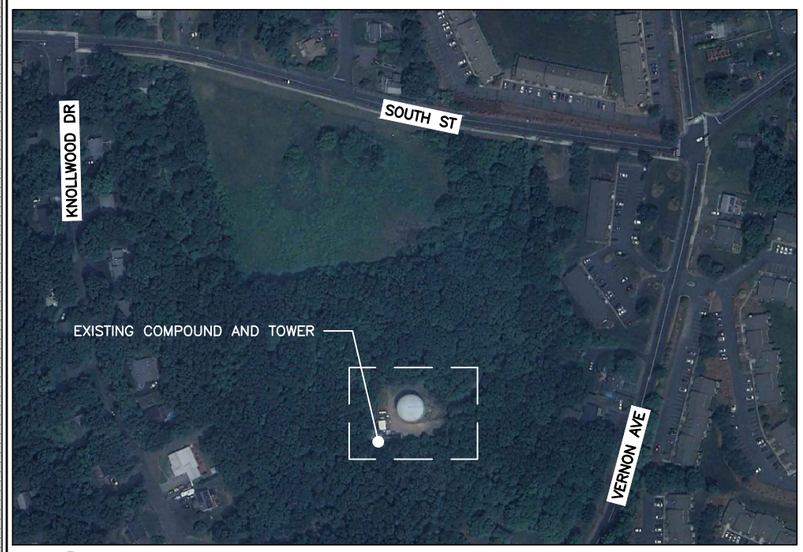
NOTE:
AN ANALYSIS OF THE CAPACITY OF THE STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS NOT BEEN COMPLETED BY CROWN CASTLE DRAWINGS ARE SUBJECT TO CHANGE PENDING OUTCOME OF A STRUCTURAL ANALYSIS.

LEASE EXHIBIT:
THIS LEASE EXHIBIT IS DIAGRAMMATIC IN NATURE AND IS INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION AND SIZE OF THE PROPOSED WIRELESS COMMUNICATION FACILITY. THE SITE LAYOUT WILL BE FINALIZED UPON COMPLETION OF THE SITE SURVEY AND FACILITY DESIGN.

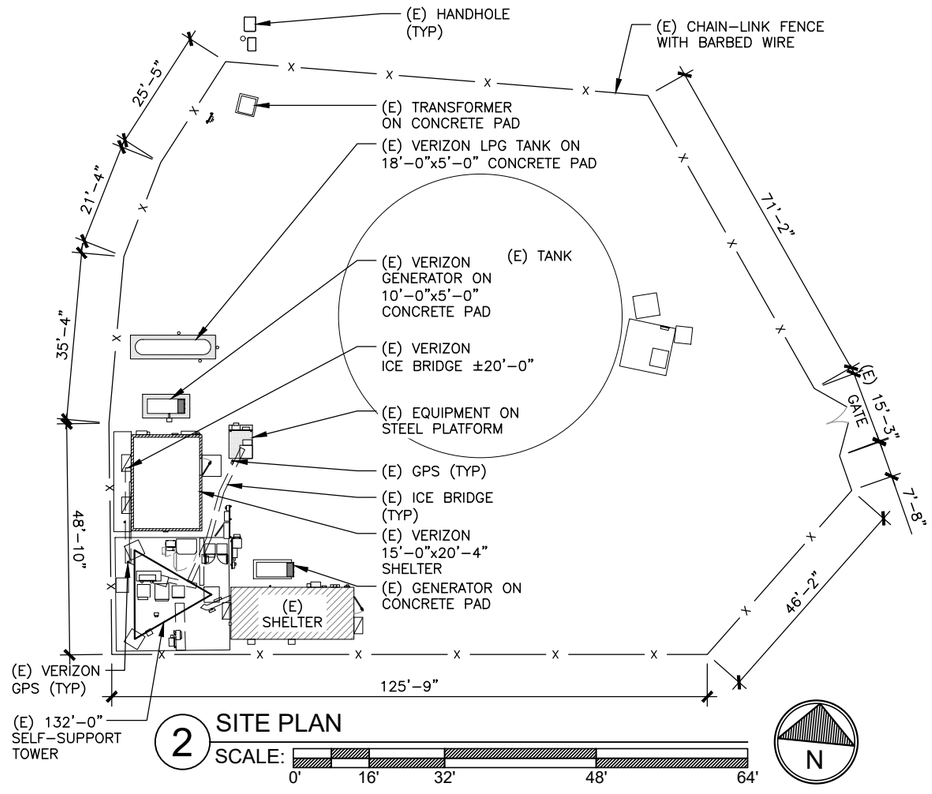
LOCATION MAP
N.T.S



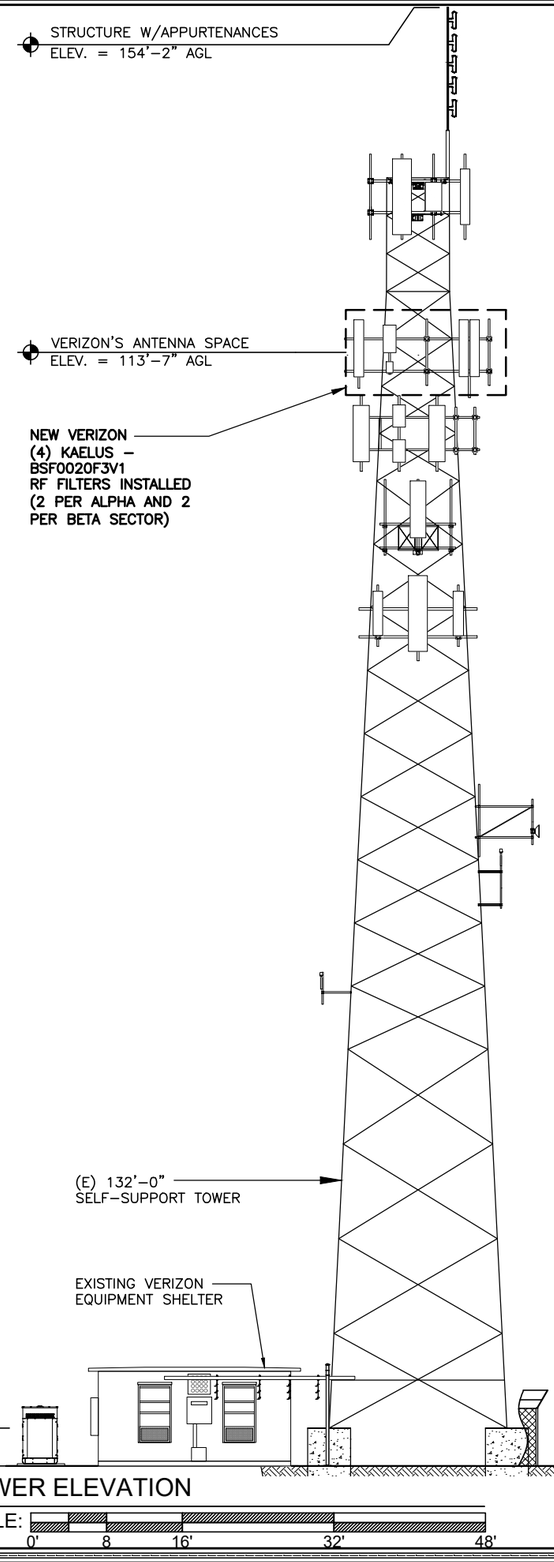
APPROXIMATE COORDINATES:	LATITUDE:	41° 51' 12.51" N	41.853475° N
	LONGITUDE:	72° 27' 7.52" W	72.452088° W



1 PARTIAL SITE / KEY PLAN
SCALE: N.T.S.



2 SITE PLAN
SCALE: 0' 16' 32' 48' 64'



3 TOWER ELEVATION
SCALE: 0' 8 16' 32' 48'

verizon

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

B+T GRP
MTS ENGINEERING, P.L.L.C.
1717 S. BOULDER
SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
btwo@btgrp.com

VERNON CT

197 SOUTH ST.
VERNON, CT 06066

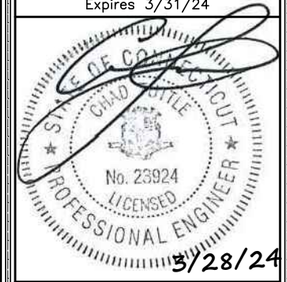
EXISTING SELF-SUPPORT TOWER

PROJECT NO:	78785.008.01
CHECKED BY:	TDG

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
0	3/28/24	FM	ISSUED FOR REVIEW

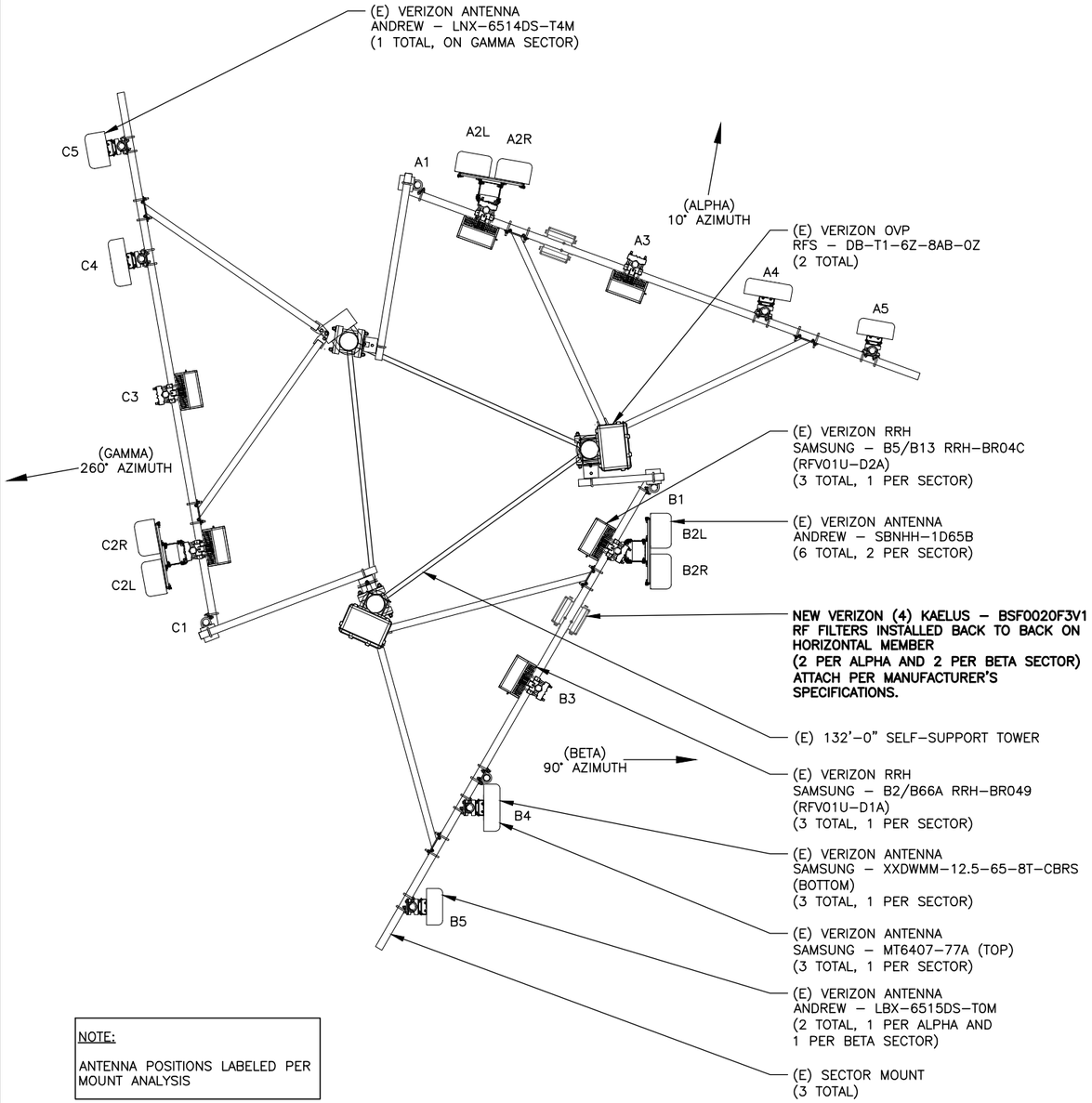
MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/24



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHEET NUMBER:	REVISION:
LE-1	0

78785.008.01.0001_806377_HRT 084 943242.dwg — Sheet:LE-1 — User: tim.grove — Mar 28, 2024 — 2:52pm



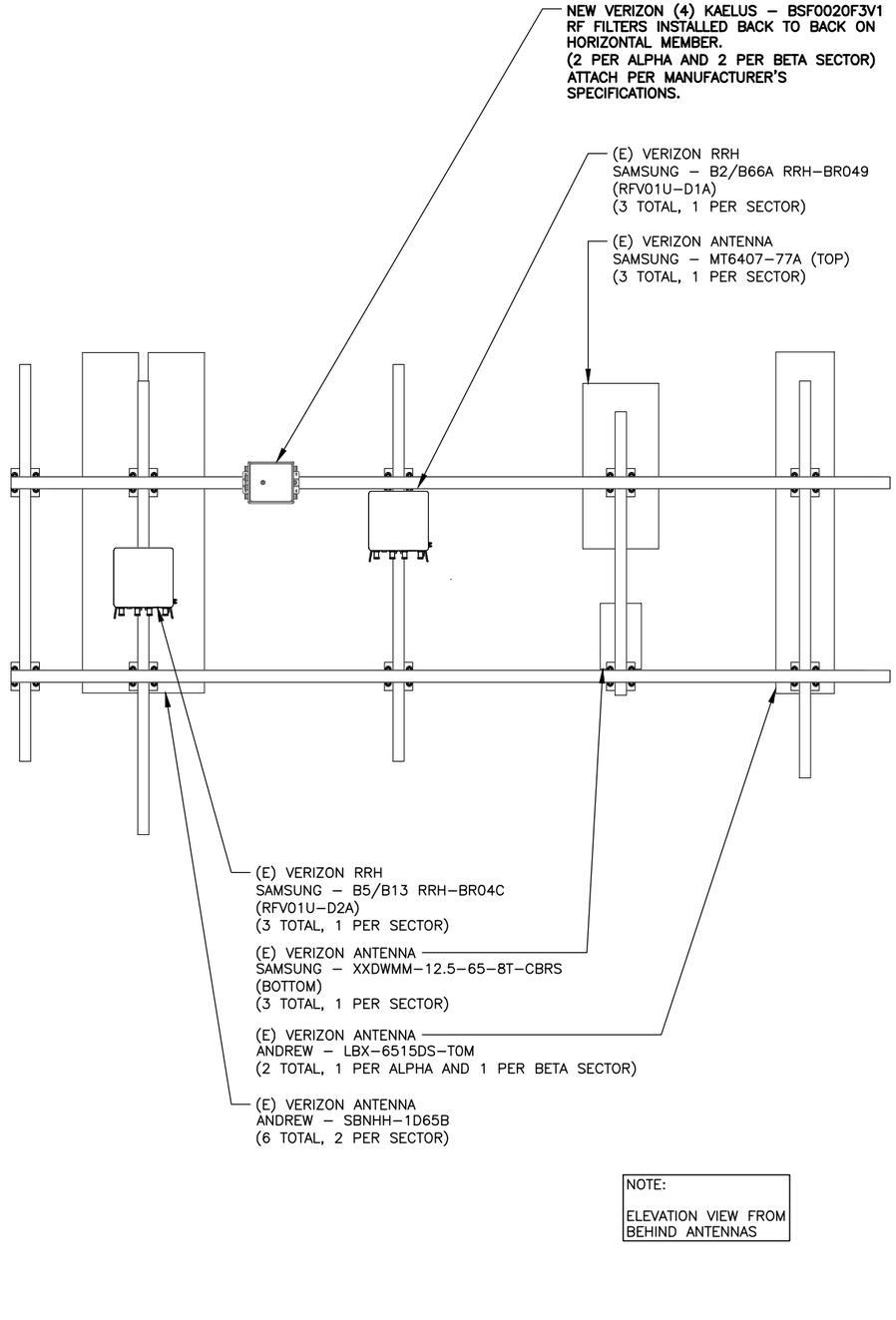
NOTE:

ANTENNA POSITIONS LABELED PER MOUNT ANALYSIS

1 NEW RF FILTER PLAN

SCALE: 0' 1' 2' 4' 10'

N



NOTE:

ELEVATION VIEW FROM BEHIND ANTENNAS

2 NEW RF FILTER ELEVATION

SCALE: 0' 1' 2' 4' 8'

verizon

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

B+T GRP
MTS ENGINEERING, P.L.L.C.
1717 S. BOULDER
SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
btwo@btgrp.com

VERNON CT

197 SOUTH ST.
VERNON, CT 06066

EXISTING SELF-SUPPORT TOWER

PROJECT NO:	78785.008.01
CHECKED BY:	TDG

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
0	3/28/24	FM	ISSUED FOR REVIEW

MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/24

STATE OF CONNECTICUT
CHAD J. LITTLE
No. 23924
LICENSED
PROFESSIONAL ENGINEER
3/28/24

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SHEET NUMBER: LE-2

REVISION: 0

78785.008.01.0001_806377_HRT 084 943242.dwg – Sheet:LE-2 – User: tim.grove – Mar 28, 2024 – 2:52pm

THIS CHECK PRINTED ON DOCUCHECK GHOST PAPER AND HAS A GRAPHIC WATERMARK ON REVERSE SIDE

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

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

2952471

SIX HUNDRED TWENTY FIVE AND 00/100********** DATE 04/11/24 $*******625.00

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

2695915

Robert A Cole VP and Controller
Assist. Secretary

VOID AFTER 180 DAYS

⑈2952471⑈ ⑆111000614⑆ 1034104531⑈

Check No 2952471
Check Date 04/11/24

Stub 1 of 1

CKRQ 654599 ZN APP FEE	04/10/24	Invoice Summ	625.00	625.00
			625.00	625.00

Vernon
806377