

October 4, 2023

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

Re: **Notice of Exempt Modification – Facility Modification**  
**237 Godfrey Road, Weston, Connecticut**

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains a wireless telecommunications facility at the above-referenced address (the “Property”). Cellco’s facility consists of antennas and remote radio heads attached to a tower. Equipment associated with the facility is located on the ground adjacent to the tower. The tower was approved by the Town of Weston (“Town”) in October of 2006. Cellco’s use of the tower was approved by the Siting Council (“Council”) in March of 2009 (EM-VER-157-090206). A copy of the Town’s tower approval and the Council’s EM-VER-157-090206 approval are included in Attachment 1.

Cellco’s proposed modification involves the installation of two (2) interference mitigation filters (“Filters”) on its existing antenna platform and antenna mounting assembly. The specification sheet for the Filter is included in Attachment 2.

Please accept this letter as notification pursuant to R.C.S.A. § 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 Weston’s Chief Elected Official and Land Use Officer. The Town is the owner of the Property.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

1. The proposed modifications will not result in an increase in the height of the existing tower. The Filters will be installed on Cellco’s existing antenna platform and antenna mounting assembly.

27958797-v1

Melanie A. Bachman, Esq.

October 4, 2023

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2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.

3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.

4. The installation of the Filters will not result in a change to radio frequency (RF) emissions from the facility. Therefore, no new RF emissions information is included in this filing.

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

6. According to the attached Structural Analysis Report ("SA") and Antenna Mount Analysis Report ("MA"), the existing tower, foundation, antenna platform and mounting assembly can support Cellco's proposed modifications. A copy of the SA and MA are included in Attachment 3.

A copy of the parcel map and Property owner information is included in Attachment 4. A Certificate of Mailing verifying that this filing was sent to municipal officials and the property owner is included in Attachment 5.

For the foregoing reasons, Cellco respectfully submits that the proposed modifications to the above-referenced telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,



Kenneth C. Baldwin

Enclosures

Copy to:

Samantha Nestor, First Selectwoman

James Pjura, Zoning/Code Enforcement Officer

Alex Tyurin, Verizon Wireless

# ATTACHMENT 1

# Town of Weston

24 School Road  
Weston, CT 06883  
203-222-2658

## BUILDING PERMIT

This is to certify that permission is hereby granted for:

Cell tower

**Owner:** Town of Weston

**SBL #:** Map 16 Block 1 Lot 35

**Located At:** 237 Godfrey Road

**Building Permit #:** 6110

**Permit Type:** Building

**Date:** 10/24/2006

**Applicant Information**

Town of Weston  
56 Norfield Road  
Weston, CT 6883

**Cost of Construction:** \$ 285000

<u>Fees:.</u>	<u>Check #</u>	<u>Amount</u>
---------------	----------------	---------------

Do not proceed beyond these points below until signed and dated by the inspector.

The undersigned owner or authorized agent hereby: (1) agrees to conform to all the requirements of the Laws of the State of Connecticut and the Ordinances of the Town of Weston; (2) agrees to notify the Building Inspector of any alterations in the plans or specifications of the building for which the permit is asked; (3) warrants that this building shall be located at the proper distance from all street lines, side yard lines and required distances from all other zones and is located in a zone in which this building and its use is allowed; (4) warrants that this application and all maps and location surveys submitted in connection herewith fully and accurately describe the premises and structures thereon and any conditions to approval of the same by Weston Planning and Zoning Commission; (5) applies for the issuance, upon satisfactory completion, of a Certificate of Occupancy for the use as herein stated; (6) requests of plans upon issuance of a Certificate of Occupancy.

The laws and building regulations of the State of Connecticut and Town of Weston shall at all times have precedence over drawings and specifications. Anything contrary to said laws and regulations that may at any time appear in the drawings and specifications, or in the work as executed, shall be corrected without delay upon the receipt of due notice from the Building Inspector.

The granting of a permit for the proposed work shall not be assumed or construed any right or permission to do anything contrary to the laws and regulations aforesaid, under any circumstances whatsoever.

**Building Inspector:**

E. Gleason/ae





# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: [siting.council@ct.gov](mailto:siting.council@ct.gov)

Internet: [ct.gov/csc](http://ct.gov/csc)

Daniel F. Caruso  
Chairman

March 11, 2009

Kenneth C. Baldwin, Esq.  
Robinson & Cole LLP  
280 Trumbull Street  
Hartford, CT 06103-3597

RE: **EM-VER-157-090206** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 237 Godfrey Road, Weston, Connecticut.

Dear Attorney Baldwin:

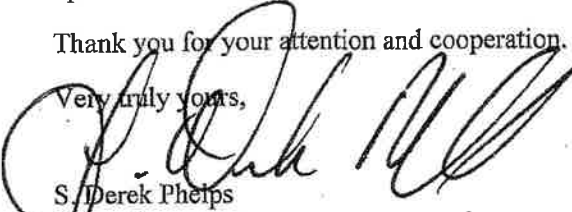
The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated February 6, 2009, including the placement of all necessary equipment and shelters within the tower compound. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,

  
S. Derek Phelps  
Executive Director

SDP/MP/laf

c: The Honorable Woody Bliss, First Selectman, Town of Weston  
Tom Landry, Town Administrator, Town of Weston  
Robert P. Turner, Zoning Enforcement Officer, Town of Weston



Affirmative Action / Equal Opportunity Employer

# **ATTACHMENT 2**

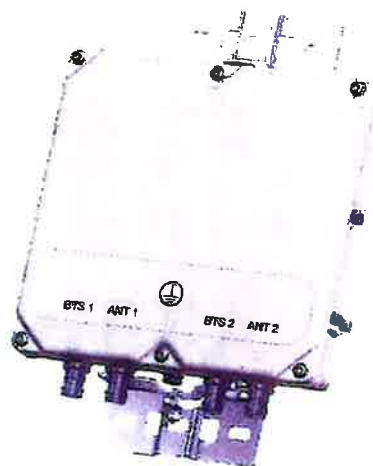
# BSF0020F3V1-1

## TWIN BANDSTOP 900MHz INTERFERENCE AND 3rd-HARM 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



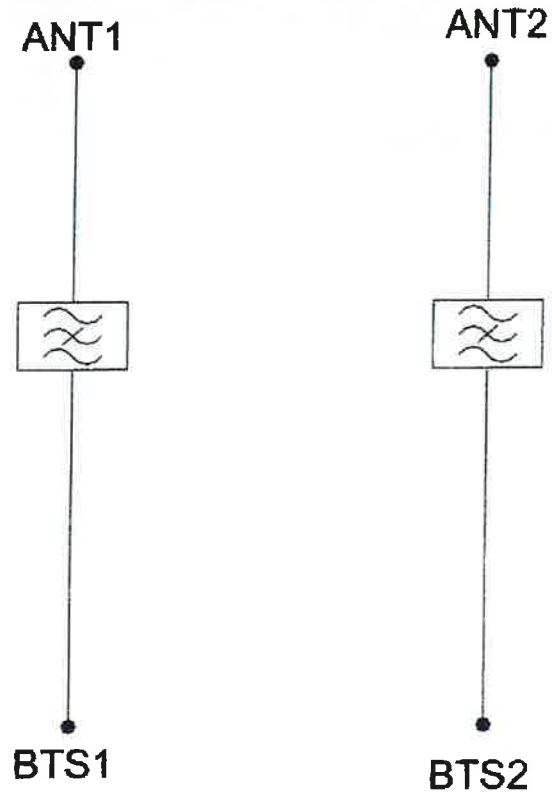
### TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS		
BAND NAME	700 MHz UL / 850 MHz DL LINK PATH	850 MHz 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	
<b>ELECTRICAL</b>		
Impedance	50Ohms	
Intermodulation products	+160dBc maximum in UL Band (assuming 20MHz Signal), with 2 x 43dBm carriers -153dBc maximum with 2 x 43dBm	
<b>DC / AISG</b>		
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	
<b>ENVIRONMENTAL</b>		
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	
<b>MECHANICAL</b>		
Dimensions H x D x W	269 x 277 x 80mm   10.60 x 10.90 x 3.15in (Excluding brackets and connectors)	
Weight	6.0 kg   17.6 lbs (no bracket)	
Finish	Powder coated, light grey (RAL7035)	
Connectors	RF: 4.3-10 (F) x 4	
Mounting	Optional pole/wall bracket supplied with two metal clamps 45-178mm diameter poles or custom bracket. See ordering information.	

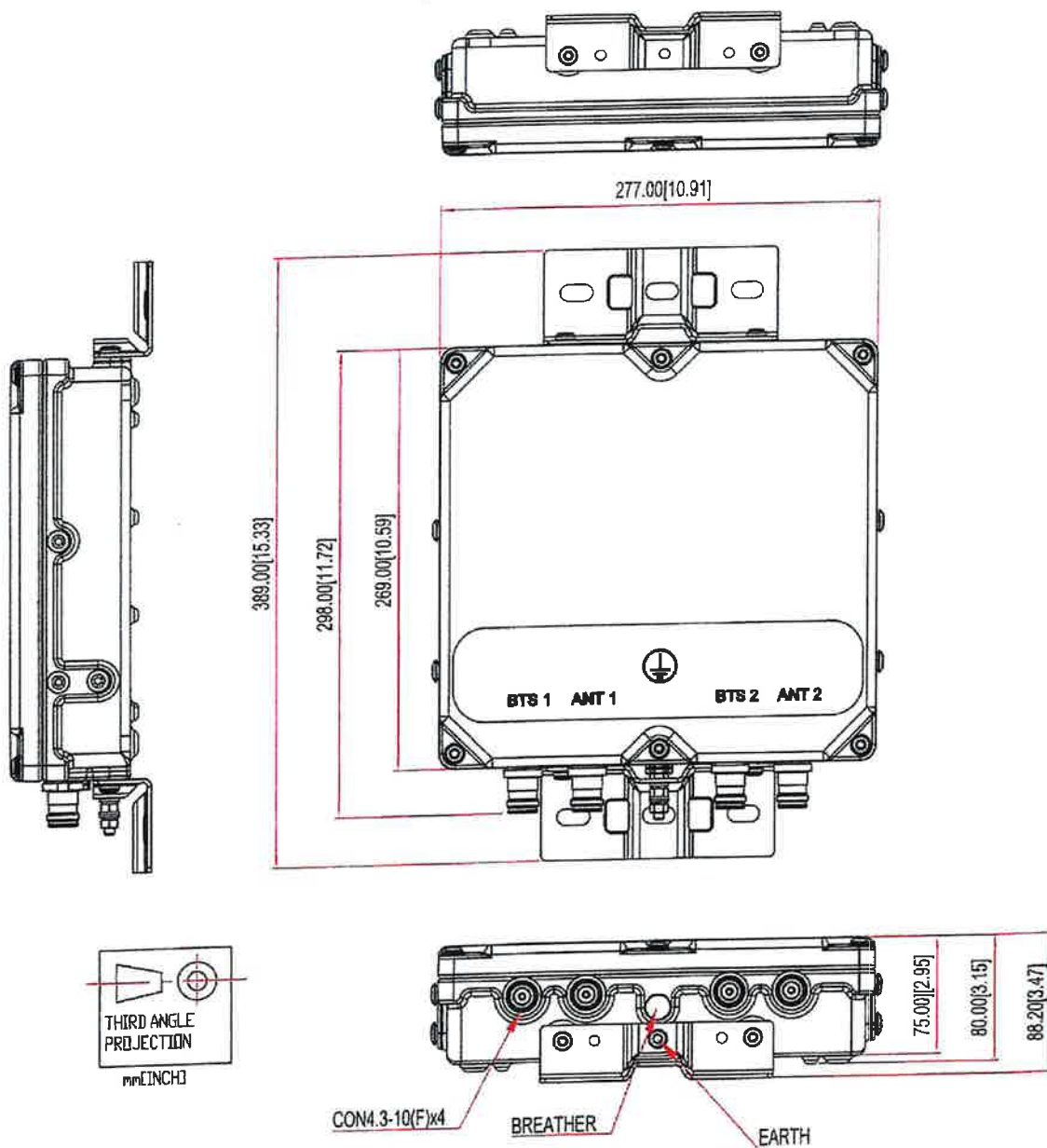
## ORDERING INFORMATION

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

**ELECTRICAL BLOCK DIAGRAM**



**MECHANICAL BLOCK DIAGRAM**



# **ATTACHMENT 3**



## **Structural Analysis Report**

**Location Code:** 468022  
**Site Name:** Weston Noth CT  
**FUZE Project ID:** 17123714  
**Project Name:** RF Filter Add  
**Address:** 237 Godfrey Road  
Weston, CT 06883

**Client:**

**verizon**✓

**20 ALEXANDER DRIVE  
WALLINGFORD, CT 06492**

**Date:** 09/15/2023



Centerline Engineering Services, PA  
750 W Center St, Suite 301  
West Bridgewater, MA 02379  
781-713-4725





Carrier	Mounting Level (ft)	Center Line Elevation (ft)	Number of Appurtenances	Antenna Manufacturer	Appurtenance Model	Feed Lines (in)
Verizon Wireless	162.0	162.0	<b>1</b>	<b>Site Pro 1</b>	<b>RRUDSM</b>	(1) RFS HB158 Hybrid
AT&T	151.0	151.0	3	Powerwave	7770 Antenna	(12) 1-5/8" Coax (1) 3" Flex Conduit
			3	CCI	HPA65R-BU6A Antenna	
			3	Powerwave	P65-16-XLH-RR Antenna	
			1	Raycap	DC6-48-60-18-8F	
			6	-	RRH	
			6	Powerwave	LGP21401 TMA's	
			3	Powerwave	TT19-08BP111 TMA	
			3	-	T-Frame Mounts	
Municipal	148.0	148.0	4	-	6' Omni Antenna	(4) 7/8" Coax
	145.0	145.0	4	-	6' Standoff Mount	
	141.0	141.0	4	-	8' Dipole	
Sprint / Nextel	138.0	138.0	1	-	3' Dish	(1) 1/2" Coax
			1	-	2' Standoff Mount	

Note: Proposed equipment shown in **bold**.

Centerline Engineering Services, PA  
750 W Center St, Suite 301  
West Bridgewater, MA 02379  
781-713-4725



**Conclusion:**

**Tower Section Capacity (Summary)**

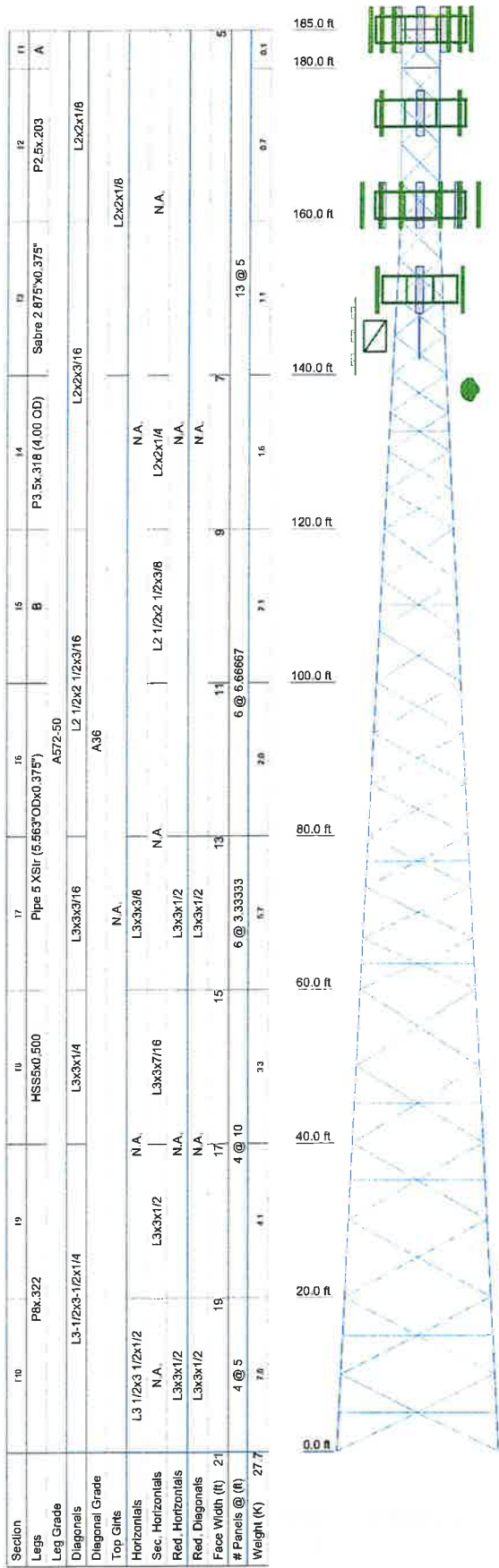
Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	$\phi P_{allow}$ lb	% Capacity	Pass Fail
T1	185 - 180	Leg	P2x.154	2	-2.70	31.62	8.5	Pass
T2	180 - 160	Leg	P2.5x.203	13	-33.01	57.19	57.7	Pass
T3	160 - 140	Leg	Sabre 2.875"x0.375"	43	-73.56	95.23	77.3	Pass
T4	140 - 120	Leg	P3.5x.318 (4.00 OD)	73	-108.52	158.89	68.3	Pass
T5	120 - 100	Leg	Pipe 5 Std (5.563"ODx0.258")	112	-138.00	186.76	73.9	Pass
T6	100 - 80	Leg	Pipe 5 XStr (5.563"ODx0.375")	142	-167.49	239.39	70.0	Pass
T7	80 - 60	Leg	Pipe 5 XStr (5.563"ODx0.375")	163	-195.91	272.66	71.9	Pass
T8	60 - 40	Leg	HSS5x0.500	283	-222.01	285.12	77.9	Pass
T9	40 - 20	Leg	P8x.322	304	-248.11	365.96	67.8	Pass
T10	20 - 0	Leg	P8x.322	325	-275.19	375.09	73.4	Pass
T1	185 - 180	Diagonal	L2x2x1/8	7	-1.86	11.29	16.5	Pass
T2	180 - 160	Diagonal	L2x2x1/8	19	-4.34	11.37	35.6 (b)	Pass
T3	160 - 140	Diagonal	L2x2x3/16	54	-4.70	13.20	38.2	Pass
T4	140 - 120	Diagonal	L2x2x3/16	81	-4.70	9.30	90.9 (b)	Pass
T5	120 - 100	Diagonal	L2 1/2x2 1/2x3/16	120	-5.51	11.83	35.6	Pass
T6	100 - 80	Diagonal	L2 1/2x2 1/2x3/16	150	-5.33	9.06	67.9 (b)	Pass
T7	80 - 60	Diagonal	L3x3x3/16	223	-7.77	24.69	50.5	Pass
T8	60 - 40	Diagonal	L3x3x1/4	288	-7.22	10.97	67.8 (b)	Pass
T9	40 - 20	Diagonal	L3-1/2x3-1/2x1/4	309	-8.92	15.38	46.5	Pass
T10	20 - 0	Diagonal	L3-1/2x3-1/2x1/4	385	-10.51	34.26	65.5 (b)	Pass
T7	80 - 60	Horizontal	L3x3x3/8	180	-3.40	17.33	58.8	Pass
T10	20 - 0	Horizontal	L3 1/2x3 1/2x1/2	342	-4.77	18.55	65.8 (b)	Pass
T4	140 - 120	Secondary Horizontal	L2x2x1/4	84	-1.88	16.66	31.5	Pass
T5	120 - 100	Secondary Horizontal	L2 1/2x2 1/2x3/8	123	-2.39	32.03	71.6 (b)	Pass
T8	60 - 40	Secondary Horizontal	L3x3x7/16	294	-3.85	29.26	65.8	Pass
T9	40 - 20	Secondary Horizontal	L3x3x1/2	315	-4.30	27.99	60.9 (b)	Pass
T1	185 - 180	Top Girt	L2x2x1/8	5	-0.44	7.31	30.7	Pass
T2	180 - 160	Top Girt	L2x2x1/8	18	-0.57	7.44	70.0 (b)	Pass
T3	160 - 140	Top Girt	L2x2x1/8	48	-1.28	7.44	19.6	Pass
T7	80 - 60	Redund Horiz 1 Bracing	L3x3x1/2	203	-4.27	70.73	25.7	Pass
T10	20 - 0	Redund Horiz 1 Bracing	L3x3x1/2	365	-5.87	62.04	11.3	Pass
T7	80 - 60	Redund Diag 1 Bracing	L3x3x1/2	243	-2.89	69.12	7.5	Pass
T10	20 - 0	Redund Diag 1 Bracing	L3x3x1/2	366	-4.18	57.39	13.2	Pass
							15.4	Pass
							6.0	Pass
							13.3 (b)	Pass
							7.7	Pass
							12.6 (b)	Pass
							17.1	Pass
							28.0 (b)	Pass
							6.0	Pass
							9.5	Pass
							4.2	Pass
							7.3	Pass
							Summary	
							Leg (T8)	Pass
							Diagonal (T2)	Pass

Centerline Engineering Services, PA  
750 W Center St, Suite 301  
West Bridgewater, MA 02379  
781-713-4725



## Design Calculations

Centerline Engineering Services, PA  
750 W Center St, Suite 301  
West Bridgewater, MA 02379  
781-713-4725



# SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	P2x.154	B	Pipe 5 Std (5.563"ODx0.258")

# MATERIAL STRENGTH

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

# TOWER DESIGN NOTES

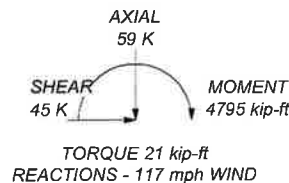
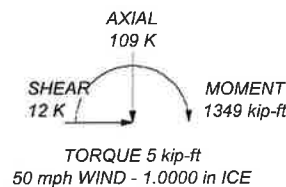
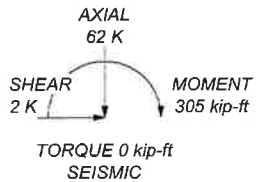
1. Tower designed for Exposure B to the TIA-222-H Standard.
2. Tower designed for a 117 mph basic wind in accordance with the TIA-222-H Standard.
3. Tower is also designed for a 50 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 60 mph wind.
5. Tower Risk Category II.
6. Topographic Category 1 with Crest Height of 0.00 ft
7. Seismic calculations are in accordance with TIA-222-H.
8. Seismic loads do not control this analysis.

ALL REACTIONS  
ARE FACTORED

MAX. CORNER REACTIONS AT BASE:

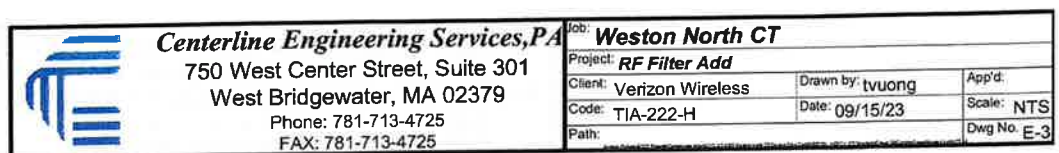
DOWN: 283 K  
SHEAR: 30 K

UPLIFT: -237 K  
SHEAR: 25 K



	<b>Centerline Engineering Services, PA</b>			<b>Job: Weston North CT</b>
	750 West Center Street, Suite 301 West Bridgewater, MA 02379			Project: <b>RF Filter Add</b>
	Phone: 781-713-4725		Client: Verizon Wireless	Drawn by: tvuong
	FAX: 781-713-4725		Code: TIA-222-H	Date: 09/15/23
			Path:	App'd:
			Scale: NTS	Dwg No. E-1

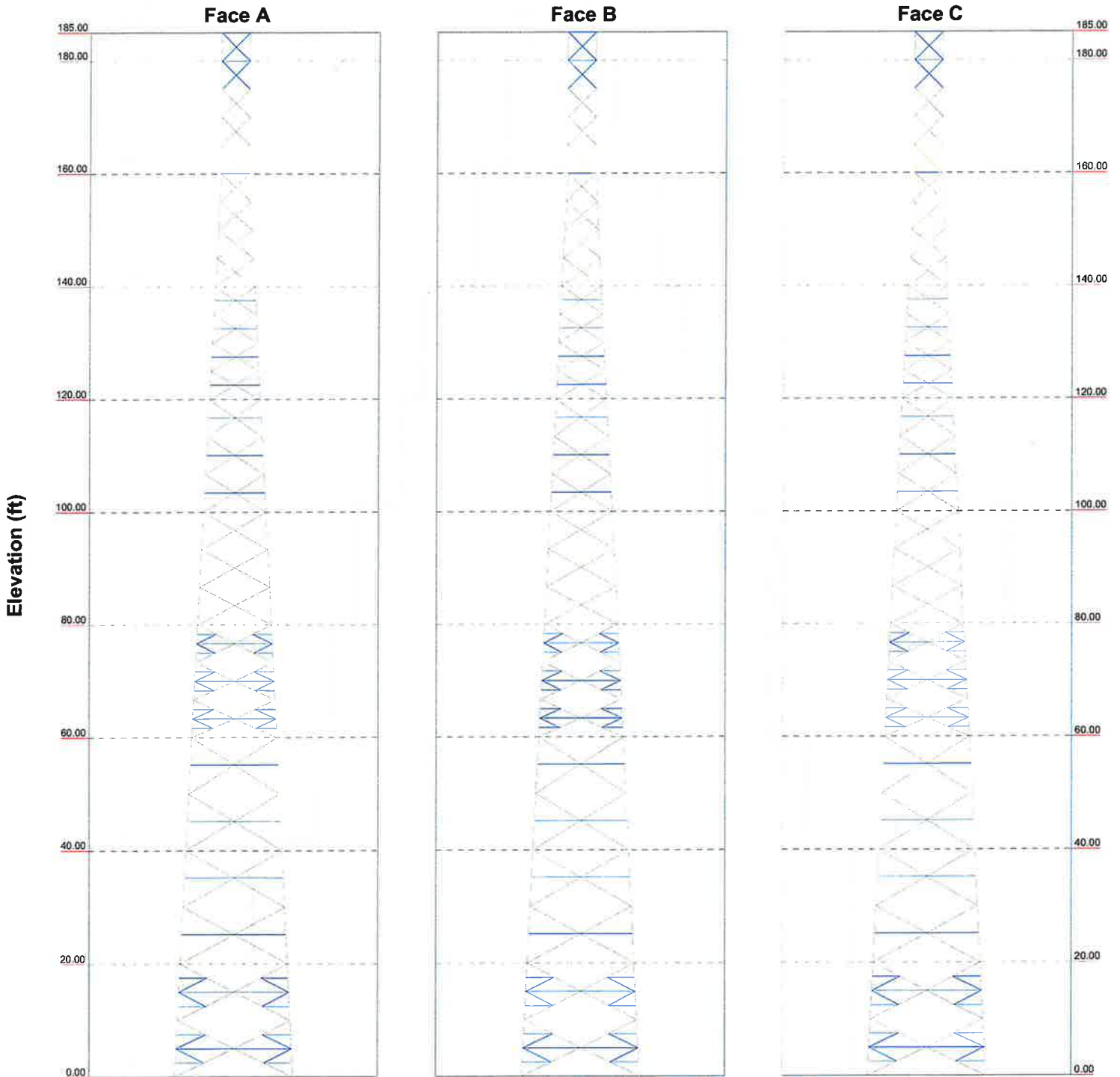
**Leg Capacity** — **Leg Compression (K)**



# Stress Distribution Chart

0' - 185'

> 100% 90%-100% 75%-90% 50%-75% < 50% Overstress





<b>tnxTower</b>  <b>Centerline Engineering Services, PA</b> 750 West Center Street, Suite 301 West Bridgewater, MA 02379 Phone: 781-713-4725 FAX: 781-713-4725	Job	Weston North CT	Page 1 of 45
	Project	RF Filter Add	Date 15:25:45 09/15/23
	Client	Verizon Wireless	Designed by tvuong

## Tower Input Data

The main tower is a 3x free standing tower with an overall height of 185.00 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 5.00 ft at the top and 21.00 ft at the base.  
This tower is designed using the TIA-222-H standard.  
The following design criteria apply:

- Tower base elevation above sea level: 0.00 ft.
- Basic wind speed of 117 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 1.0000 in.
- Ice thickness is considered to increase with height.
- Ice density of 56 pcf.
- A wind speed of 50 mph is used in combination with ice.
- Temperature drop of 50 °F.
- Deflections calculated using a wind speed of 60 mph.
- A non-linear (P-delta) analysis was used.
- Pressures are calculated at each section.
- Stress ratio used in 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.
- Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

## Options

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

<b>tnxTower</b>  <b>Centerline Engineering Services, PA</b> 750 West Center Street, Suite 301 West Bridgewater, MA 02379 Phone: 781-713-4725 FAX: 781-713-4725	<b>Job</b>	Weston North CT	<b>Page</b>	3 of 45
	<b>Project</b>	RF Filter Add	<b>Date</b>	15:25:45 09/15/23
	<b>Client</b>	Verizon Wireless	<b>Designed by</b>	tvuong

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
T4	140.00-120.00	5.00	X Brace	No	Yes	0.0000	0.0000
T5	120.00-100.00	6.67	X Brace	No	Yes	0.0000	0.0000
T6	100.00-80.00	6.67	X Brace	No	No	0.0000	0.0000
T7	80.00-60.00	3.33	Double K1	No	Yes	0.0000	0.0000
T8	60.00-40.00	10.00	X Brace	No	Yes	0.0000	0.0000
T9	40.00-20.00	10.00	X Brace	No	Yes	0.0000	0.0000
T10	20.00-0.00	5.00	Double K1	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 185.00-180.00	Pipe	P2x.154	A572-50 (50 ksi)	Single Angle	L2x2x1/8	A36 (36 ksi)
T2 180.00-160.00	Pipe	P2.5x.203	A572-50 (50 ksi)	Single Angle	L2x2x1/8	A36 (36 ksi)
T3 160.00-140.00	Pipe	Sabre 2.875"x0.375"	A572-50 (50 ksi)	Single Angle	L2x2x3/16	A36 (36 ksi)
T4 140.00-120.00	Pipe	P3.5x.318 (4.00 OD)	A572-50 (50 ksi)	Single Angle	L2x2x3/16	A36 (36 ksi)
T5 120.00-100.00	Pipe	Pipe 5 Std (5.563"ODx0.258")	A572-50 (50 ksi)	Single Angle	L2 1/2x2 1/2x3/16	A36 (36 ksi)
T6 100.00-80.00	Pipe	Pipe 5 XStr (5.563"ODx0.375")	A572-50 (50 ksi)	Single Angle	L2 1/2x2 1/2x3/16	A36 (36 ksi)
T7 80.00-60.00	Pipe	Pipe 5 XStr (5.563"ODx0.375")	A572-50 (50 ksi)	Single Angle	L3x3x3/16	A36 (36 ksi)
T8 60.00-40.00	Pipe	HSS5x0.500	A572-50 (50 ksi)	Single Angle	L3x3x1/4	A36 (36 ksi)
T9 40.00-20.00	Pipe	P8x.322	A572-50 (50 ksi)	Single Angle	L3-1/2x3-1/2x1/4	A36 (36 ksi)
T10 20.00-0.00	Pipe	P8x.322	A572-50 (50 ksi)	Single Angle	L3-1/2x3-1/2x1/4	A36 (36 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 185.00-180.00	Single Angle	L2x2x1/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T2 180.00-160.00	Single Angle	L2x2x1/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T3 160.00-140.00	Single Angle	L2x2x1/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)

### Tower Section Geometry (cont'd)



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Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor $A_f$	Adjust. Factor $A_r$	Weight Multi.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
ft	ft <sup>2</sup>	in					in	in	in
T6 100.00-80.00	0.00	0.0000	A36 (36 ksi)	1	1	1	36.0000	36.0000	36.0000
T7 80.00-60.00	0.00	0.0000	A36 (36 ksi)	1	1	1	36.0000	36.0000	36.0000
T8 60.00-40.00	0.00	0.0000	A36 (36 ksi)	1	1	1	36.0000	36.0000	36.0000
T9 40.00-20.00	0.00	0.0000	A36 (36 ksi)	1	1	1	36.0000	36.0000	36.0000
T10 20.00-0.00	0.00	0.0000	A36 (36 ksi)	1	1	1	36.0000	36.0000	36.0000

### Tower Section Geometry (cont'd)

Tower Elevation	Calc K Single Angles	Calc K Solid Rounds	Legs	K Factors <sup>1</sup>						
				X Brace Diags	K Brace Diags	Single Diags	Girts	Horiz.	Sec. Horiz.	Inner Brace
				X Y	X Y	X Y	X Y	X Y	X Y	X Y
T1 185.00-180.00	Yes	Yes	1	1	1	1	1	1	1	1
T2 180.00-160.00	Yes	Yes	1	1	1	1	1	1	1	1
T3 160.00-140.00	Yes	Yes	1	1	1	1	1	1	1	1
T4 140.00-120.00	Yes	Yes	1	1	1	1	1	1	0.5	1
T5 120.00-100.00	Yes	Yes	1	1	1	1	1	1	0.5	1
T6 100.00-80.00	Yes	Yes	1	1	1	1	1	1	1	1
T7 80.00-60.00	Yes	Yes	1	1	1	1	1	1	1	1
T8 60.00-40.00	Yes	Yes	1	1	1	1	1	1	0.5	1
T9 40.00-20.00	Yes	Yes	1	1	1	1	1	1	0.5	1
T10 20.00-0.00	Yes	Yes	1	1	1	1	1	1	1	1

<sup>1</sup>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)

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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.
T2	Flange	0.7500	6	0.6250	1	0.6250	1	0.6250	0	0.6250	0	0.6250	0	0.6250	0
180.00-160.00		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T3	Flange	0.7500	6	0.6250	1	0.6250	1	0.6250	0	0.6250	0	0.6250	0	0.6250	0
160.00-140.00		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T4	Flange	1.0000	6	0.6250	1	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
140.00-120.00		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T5	Flange	1.0000	6	0.6250	1	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
120.00-100.00		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T6	Flange	1.0000	6	0.6250	1	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
100.00-80.00		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T7 80.00-60.00	Flange	1.0000	6	0.7500	1	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T8 60.00-40.00	Flange	1.0000	6	0.7500	1	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T9 40.00-20.00	Flange	1.2500	6	0.7500	1	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T10 20.00-0.00	Flange	1.2500	6	0.7500	1	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	

### 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
LDF7-50A(1 5/8")	B	No	No	Ar (CaAa)	185.00 - 0.00	0.0000	0.15	10	10	0.5000	1.9800		0.82
LDF7-50A(1 5/8")	A	No	No	Ar (CaAa)	151.00 - 0.00	0.0000	0.15	12	6	0.5000	1.9800		0.82
LDF5-50A(7/ 8)	B	No	No	Ar (CaAa)	145.00 - 0.00	-2.0000	0.17	2	2	0.5000	1.0900		0.33
LDF5-50A(7/ 8)	B	No	No	Ar (CaAa)	145.00 - 0.00	-2.0000	0.15	2	2	0.5000	1.0900		0.33
LDF5-50A(7/ 8)	B	No	No	Ar (CaAa)	185.00 - 0.00	-2.0000	0.13	3	3	0.5000	1.0900		0.33
LDF4-50A(1/ 2)	B	No	No	Ar (CaAa)	138.00 - 0.00	-2.0000	0.11	1	1	0.5000	0.6300		0.15
3" Conduit	A	No	No	Ar (CaAa)	151.00 - 0.00	0.0000	0.2	1	1	0.5000	3.0000		2.80
Hybrid ( 1 1/4")	B	No	No	Ar (CaAa)	185.00 - 0.00	0.0000	0.15	3	3	0.5000	1.2500		0.68
Hybrid ( 1 1/4")	C	No	No	Ar (CaAa)	174.00 - 0.00	-1.5000	0.15	4	4	0.5000	1.2500		0.68
HB158-1-08U 8-S8F18(1 5/8")	A	No	No	Ar (CaAa)	162.00 - 0.00	-9.0000	0.21	1	1	0.5000	1.9800		1.70
Feedline Ladder (Af)	A	No	No	Af (CaAa)	165.00 - 0.00	0.0000	0.17	1	1	0.5000	3.0000		8.40
Feedline Ladder (Af)	B	No	No	Af (CaAa)	185.00 - 0.00	0.0000	0.14	1	1	0.5000	3.0000		8.40
Feedline Ladder (Af)	A	No	No	Af (CaAa)	185.00 - 0.00	0.0000	0	1	1	0.5000	3.0000		8.40
Feedline Ladder (Af)	C	No	No	Af (CaAa)	174.00 - 0.00	-1.0000	0.14	1	1	0.5000	3.0000		8.40

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Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> In Face ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Out Face ft <sup>2</sup>	Weight K
T4	140.00-120.00	A	0.975	0.000	0.000	103.315	0.000	1.81
		B		0.000	0.000	148.461	0.000	1.50
		C		0.000	0.000	36.488	0.000	0.50
T5	120.00-100.00	A	0.959	0.000	0.000	102.887	0.000	1.80
		B		0.000	0.000	148.317	0.000	1.49
		C		0.000	0.000	36.319	0.000	0.49
T6	100.00-80.00	A	0.940	0.000	0.000	102.383	0.000	1.78
		B		0.000	0.000	147.538	0.000	1.47
		C		0.000	0.000	36.121	0.000	0.49
T7	80.00-60.00	A	0.916	0.000	0.000	101.766	0.000	1.76
		B		0.000	0.000	146.586	0.000	1.44
		C		0.000	0.000	35.877	0.000	0.48
T8	60.00-40.00	A	0.886	0.000	0.000	100.963	0.000	1.73
		B		0.000	0.000	145.349	0.000	1.41
		C		0.000	0.000	35.561	0.000	0.47
T9	40.00-20.00	A	0.842	0.000	0.000	99.795	0.000	1.68
		B		0.000	0.000	143.551	0.000	1.36
		C		0.000	0.000	35.102	0.000	0.46
T10	20.00-0.00	A	0.754	0.000	0.000	97.479	0.000	1.60
		B		0.000	0.000	139.989	0.000	1.27
		C		0.000	0.000	34.194	0.000	0.43

### Feed Line Center of Pressure

Section	Elevation ft	CP <sub>x</sub> in	CP <sub>z</sub> in	CP <sub>x</sub> Ice in	CP <sub>z</sub> Ice in
T1	185.00-180.00	5.1333	-1.1465	5.2765	-1.1936
T2	180.00-160.00	3.5947	-0.8000	3.3014	-0.6671
T3	160.00-140.00	1.2605	-4.3722	1.0621	-3.9496
T4	140.00-120.00	1.3153	-6.1337	1.8085	-5.4719
T5	120.00-100.00	1.5190	-7.0203	2.1403	-6.3946
T6	100.00-80.00	1.9117	-8.6621	2.6359	-7.8343
T7	80.00-60.00	1.4117	-6.9137	2.1196	-6.7045
T8	60.00-40.00	2.1456	-9.9653	3.0212	-9.3370
T9	40.00-20.00	2.1411	-10.0477	2.9579	-9.4172
T10	20.00-0.00	1.8267	-8.9132	2.5243	-8.6453

### Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
T1	1	LDF7-50A(1 5/8")	180.00 - 185.00	0.6000	0.6000
T1	5	LDF5-50A(7/8)	180.00 - 185.00	0.6000	0.6000
T1	8	Hybrid ( 1 1/4")	180.00 - 185.00	0.6000	0.6000
T1	12	Feedline Ladder (Af)	180.00 - 185.00	0.6000	0.6000
T1	13	Feedline Ladder (Af)	180.00 -	0.6000	0.6000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
			140.00		
T4	8	Hybrid ( 1 1/4")	120.00 - 140.00	0.6000	0.6000
T4	9	Hybrid ( 1 1/4")	120.00 - 140.00	0.6000	0.6000
T4	10	HB158-1-08U8-S8F18(1 5/8")	120.00 - 140.00	0.6000	0.6000
T4	11	Feedline Ladder (Af)	120.00 - 140.00	0.6000	0.6000
T4	12	Feedline Ladder (Af)	120.00 - 140.00	0.6000	0.6000
T4	13	Feedline Ladder (Af)	120.00 - 140.00	0.6000	0.6000
T4	14	Feedline Ladder (Af)	120.00 - 140.00	0.6000	0.6000
T4	15	Feedline Ladder (Af)	120.00 - 140.00	0.6000	0.6000
T5	1	LDF7-50A(1 5/8")	100.00 - 120.00	0.6000	0.6000
T5	2	LDF7-50A(1 5/8")	100.00 - 120.00	0.6000	0.6000
T5	3	LDF5-50A(7/8)	100.00 - 120.00	0.6000	0.6000
T5	4	LDF5-50A(7/8)	100.00 - 120.00	0.6000	0.6000
T5	5	LDF5-50A(7/8)	100.00 - 120.00	0.6000	0.6000
T5	6	LDF4-50A(1/2)	100.00 - 120.00	0.6000	0.6000
T5	7	3" Conduit	100.00 - 120.00	0.6000	0.6000
T5	8	Hybrid ( 1 1/4")	100.00 - 120.00	0.6000	0.6000
T5	9	Hybrid ( 1 1/4")	100.00 - 120.00	0.6000	0.6000
T5	10	HB158-1-08U8-S8F18(1 5/8")	100.00 - 120.00	0.6000	0.6000
T5	11	Feedline Ladder (Af)	100.00 - 120.00	0.6000	0.6000
T5	12	Feedline Ladder (Af)	100.00 - 120.00	0.6000	0.6000
T5	13	Feedline Ladder (Af)	100.00 - 120.00	0.6000	0.6000
T5	14	Feedline Ladder (Af)	100.00 - 120.00	0.6000	0.6000
T5	15	Feedline Ladder (Af)	100.00 - 120.00	0.6000	0.6000
T6	1	LDF7-50A(1 5/8")	80.00 - 100.00	0.6000	0.6000
T6	2	LDF7-50A(1 5/8")	80.00 - 100.00	0.6000	0.6000
T6	3	LDF5-50A(7/8)	80.00 - 100.00	0.6000	0.6000
T6	4	LDF5-50A(7/8)	80.00 - 100.00	0.6000	0.6000
T6	5	LDF5-50A(7/8)	80.00 - 100.00	0.6000	0.6000
T6	6	LDF4-50A(1/2)	80.00 - 100.00	0.6000	0.6000
T6	7	3" Conduit	80.00 - 100.00	0.6000	0.6000
T6	8	Hybrid ( 1 1/4")	80.00 - 100.00	0.6000	0.6000
T6	9	Hybrid ( 1 1/4")	80.00 - 100.00	0.6000	0.6000
T6	10	HB158-1-08U8-S8F18(1 5/8")	80.00 - 100.00	0.6000	0.6000
T6	11	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000
T6	12	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000
T6	13	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000
T6	14	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
T10	13	Feedline Ladder (Af)	0.00 - 20.00	0.6000	0.6000
T10	14	Feedline Ladder (Af)	0.00 - 20.00	0.6000	0.6000
T10	15	Feedline Ladder (Af)	0.00 - 20.00	0.6000	0.6000

### Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets:	Azimuth	Placement		C <sub>A</sub> A <sub>A</sub> Front	C <sub>A</sub> A <sub>A</sub> Side	Weight
			Horz Lateral Vert ft ft ft	°	ft		ft²	ft²	K
DB636-A	B	From Leg	0.00	0.0000	185.00	No Ice	2.78	2.78	0.03
			0.00			1/2" Ice	3.96	3.96	0.05
			0.00			1" Ice	5.16	5.16	0.08
DB222	A	From Leg	0.00	0.0000	185.00	No Ice	1.60	1.60	0.02
			0.00			1/2" Ice	2.88	2.88	0.02
			0.00			1" Ice	4.16	4.16	0.03
DB222	C	From Leg	0.00	0.0000	185.00	No Ice	1.60	1.60	0.02
			0.00			1/2" Ice	2.88	2.88	0.02
			0.00			1" Ice	4.16	4.16	0.03
PiROD 12' Lightweight T-Frame	A	None	0.0000	185.00	No Ice	10.20	10.20	0.25	
					1/2" Ice	16.20	16.20	0.35	
					1" Ice	22.20	22.20	0.46	
PiROD 12' Lightweight T-Frame	B	None	0.0000	185.00	No Ice	10.20	10.20	0.25	
					1/2" Ice	16.20	16.20	0.35	
					1" Ice	22.20	22.20	0.46	
PiROD 12' Lightweight T-Frame	C	None	0.0000	185.00	No Ice	10.20	10.20	0.25	
					1/2" Ice	16.20	16.20	0.35	
					1" Ice	22.20	22.20	0.46	
AIR 6449 B77D	A	From Leg	3.00	0.0000	185.00	No Ice	5.32	4.04	0.11
			3.00			1/2" Ice	6.14	5.08	0.16
			0.00			1" Ice	6.87	5.97	0.22
AIR 6449 B77D	B	From Leg	3.00	0.0000	185.00	No Ice	5.32	4.04	0.11
			3.00			1/2" Ice	6.14	5.08	0.16
			0.00			1" Ice	6.87	5.97	0.22
AIR 6449 B77D	C	From Leg	3.00	0.0000	185.00	No Ice	5.32	4.04	0.11
			3.00			1/2" Ice	6.14	5.08	0.16
			0.00			1" Ice	6.87	5.97	0.22
AIR 32 B2a/B66Aa	A	From Leg	3.00	0.0000	185.00	No Ice	6.51	4.71	0.13
			-3.00			1/2" Ice	6.89	5.07	0.18
			0.00			1" Ice	7.27	5.43	0.23
AIR 32 B2a/B66Aa	B	From Leg	3.00	0.0000	185.00	No Ice	6.51	4.71	0.13
			-3.00			1/2" Ice	6.89	5.07	0.18
			0.00			1" Ice	7.27	5.43	0.23
AIR 32 B2a/B66Aa	C	From Leg	3.00	0.0000	185.00	No Ice	6.51	4.71	0.13
			-3.00			1/2" Ice	6.89	5.07	0.18
			0.00			1" Ice	7.27	5.43	0.23
APXVAARR24_43-U-NA20	A	From Leg	3.00	0.0000	185.00	No Ice	20.24	8.89	0.13
			0.00			1/2" Ice	20.89	9.49	0.24
			0.00			1" Ice	21.54	10.09	0.36
APXVAARR24_43-U-NA20	B	From Leg	3.00	0.0000	185.00	No Ice	20.24	8.89	0.13
			0.00			1/2" Ice	20.89	9.49	0.24
			0.00			1" Ice	21.54	10.09	0.36

<b>tnxTower</b>  <b>Centerline Engineering Services,PA</b> 750 West Center Street, Suite 301 West Bridgewater, MA 02379 Phone: 781-713-4725 FAX: 781-713-4725	Job	Weston North CT	Page 15 of 45
	Project	RF Filter Add	Date 15:25:45 09/15/23
	Client	Verizon Wireless	Designed by tvuong

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C <sub>AA</sub> Front ft <sup>2</sup>	C <sub>AA</sub> Side ft <sup>2</sup>	Weight K
1900MHz RRH (65MHz) w/Mount pipe	A	From Leg	0.00 3.00 0.00 0.00	0.0000	174.00	1" Ice No Ice 1/2" Ice 1" Ice	7.10 2.31 2.52 2.73	4.33 2.52 2.80 3.10	0.14 0.06 0.09 0.12
1900MHz RRH (65MHz) w/Mount pipe	B	From Leg	0.00 3.00 0.00 0.00	0.0000	174.00	No Ice 1/2" Ice 1" Ice	2.31 2.52 2.73	2.52 2.80 3.10	0.06 0.09 0.12
1900MHz RRH (65MHz) w/Mount pipe	C	From Leg	0.00 3.00 0.00 0.00	0.0000	174.00	No Ice 1/2" Ice 1" Ice	2.31 2.52 2.73	2.52 2.80 3.10	0.06 0.09 0.12
TME-800MHZ RRH W/ MOUNT PIPE	A	From Leg	0.00 3.00 0.00 0.00	0.0000	174.00	No Ice 1/2" Ice 1" Ice	2.32 2.57 2.83	2.27 2.61 2.96	0.06 0.09 0.12
TME-800MHZ RRH W/ MOUNT PIPE	B	From Leg	0.00 3.00 0.00 0.00	0.0000	174.00	No Ice 1/2" Ice 1" Ice	2.32 2.57 2.83	2.27 2.61 2.96	0.06 0.09 0.12
TME-800MHZ RRH W/ MOUNT PIPE	C	From Leg	0.00 3.00 0.00 0.00	0.0000	174.00	No Ice 1/2" Ice 1" Ice	2.32 2.57 2.83	2.27 2.61 2.96	0.06 0.09 0.12
RRU	A	From Leg	0.00 3.00 0.00 0.00	0.0000	174.00	No Ice 1/2" Ice 1" Ice	1.20 1.34 1.48	0.60 0.70 0.81	0.01 0.02 0.03
RRU	B	From Leg	0.00 3.00 0.00 0.00	0.0000	174.00	No Ice 1/2" Ice 1" Ice	1.20 1.34 1.48	0.60 0.70 0.81	0.01 0.02 0.03
RRU	C	From Leg	0.00 3.00 0.00 0.00	0.0000	174.00	No Ice 1/2" Ice 1" Ice	1.20 1.34 1.48	0.60 0.70 0.81	0.01 0.02 0.03
*****									
Site Pro 1 VFA12-HD	A	None		0.0000	162.00	No Ice 1/2" Ice 1" Ice	13.20 19.50 25.80	9.20 14.60 19.50	0.66 0.80 1.01
Site Pro 1 VFA12-HD	B	None		0.0000	162.00	No Ice 1/2" Ice 1" Ice	13.20 19.50 25.80	9.20 14.60 19.50	0.66 0.80 1.01
Site Pro 1 VFA12-HD	C	None		0.0000	162.00	No Ice 1/2" Ice 1" Ice	13.20 19.50 25.80	9.20 14.60 19.50	0.66 0.80 1.01
(2) MX06FIT665-02	A	From Leg	0.00 3.00 0.00 0.00	-60.0000	162.00	No Ice 1/2" Ice 1" Ice	8.15 8.60 9.06	7.34 7.78 8.24	0.05 0.11 0.17
(2) MX06FIT665-02	B	From Leg	0.00 3.00 0.00 0.00	-30.0000	162.00	No Ice 1/2" Ice 1" Ice	8.15 8.60 9.06	7.34 7.78 8.24	0.05 0.11 0.17
(2) MX06FIT665-02	C	From Leg	0.00 3.00 0.00 0.00	-40.0000	162.00	No Ice 1/2" Ice 1" Ice	8.15 8.60 9.06	7.34 7.78 8.24	0.05 0.11 0.17
MT6407-77A	A	From Leg	0.00 3.00 0.00 0.00	-60.0000	162.00	No Ice 1/2" Ice 1" Ice	4.70 4.99 5.28	1.84 2.07 2.30	0.09 0.12 0.15
MT6407-77A	B	From Leg	0.00 3.00 0.00 0.00	-30.0000	162.00	No Ice 1/2" Ice 1" Ice	4.70 4.99 5.28	1.84 2.07 2.30	0.09 0.12 0.15
MT6407-77A	C	From Leg	0.00 3.00 0.00 0.00	-40.0000	162.00	No Ice 1/2" Ice 1" Ice	4.70 4.99 5.28	1.84 2.07 2.30	0.09 0.12 0.15
B2/B66A RRH ORAN	A	From Leg	0.00 3.00	-60.0000	162.00	No Ice	1.87	1.25	0.07



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	Project	RF Filter Add	Date 15:25:45 09/15/23
	Client	Verizon Wireless	Designed by tvuong

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C <sub>AA</sub> Front ft <sup>2</sup>	C <sub>AA</sub> Side ft <sup>2</sup>	Weight K
HPA65R-BU6A	A	From Leg	3.00 0.00 0.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice	7.85 8.30 8.76	5.61 6.06 6.52	0.05 0.10 0.16
HPA65R-BU6A	B	From Leg	3.00 0.00 0.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice	7.85 8.30 8.76	5.61 6.06 6.52	0.05 0.10 0.16
HPA65R-BU6A	C	From Leg	3.00 0.00 0.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice	7.85 8.30 8.76	5.61 6.06 6.52	0.05 0.10 0.16
P65-16-XLH-RR	A	From Leg	3.00 0.00 0.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice	8.13 8.59 9.05	4.70 5.15 5.60	0.05 0.10 0.15
P65-16-XLH-RR	B	From Leg	3.00 0.00 0.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice	8.13 8.59 9.05	4.70 5.15 5.60	0.05 0.10 0.15
P65-16-XLH-RR	C	From Leg	3.00 0.00 0.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice	8.13 8.59 9.05	4.70 5.15 5.60	0.05 0.10 0.15
20"x15"x10" Surge Protector	A	From Leg	3.00 0.00 0.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice	2.50 2.70 2.90	1.67 1.84 2.01	0.04 0.06 0.08
(2) RRU	A	From Leg	3.00 0.00 0.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice	1.20 1.34 1.48	0.60 0.70 0.81	0.01 0.02 0.03
(2) RRU	B	From Leg	3.00 0.00 0.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice	1.20 1.34 1.48	0.60 0.70 0.81	0.01 0.02 0.03
(2) RRU	C	From Leg	3.00 0.00 0.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice	1.20 1.34 1.48	0.60 0.70 0.81	0.01 0.02 0.03
*****									
6' Side Arm Mount	A	From Leg	3.00 0.00 0.00	0.0000	145.00	No Ice 1/2" Ice 1" Ice	4.54 7.80 11.06	1.23 2.55 3.88	0.05 0.08 0.10
6' Side Arm Mount	C	From Leg	3.00 0.00 0.00	0.0000	145.00	No Ice 1/2" Ice 1" Ice	4.54 7.80 11.06	1.23 2.55 3.88	0.05 0.08 0.10
6' Side Arm Mount	A	From Leg	3.00 0.00 0.00	0.0000	145.00	No Ice 1/2" Ice 1" Ice	4.54 7.80 11.06	1.23 2.55 3.88	0.05 0.08 0.10
6' Side Arm Mount	C	From Leg	3.00 0.00 0.00	0.0000	145.00	No Ice 1/2" Ice 1" Ice	4.54 7.80 11.06	1.23 2.55 3.88	0.05 0.08 0.10
(2) 6' x 2" Omni	A	From Leg	6.00 0.00 0.00	0.0000	145.00	No Ice 1/2" Ice 1" Ice	1.20 1.80 2.17	1.20 1.80 2.17	0.02 0.02 0.04
(2) 6' x 2" Omni	C	From Leg	6.00 0.00 0.00	0.0000	145.00	No Ice 1/2" Ice 1" Ice	1.20 1.80 2.17	1.20 1.80 2.17	0.02 0.02 0.04
(2) 8' Dipole	A	From Leg	6.00 0.00 0.00	0.0000	145.00	No Ice 1/2" Ice 1" Ice	2.78 3.96 5.16	2.78 3.96 5.16	0.03 0.05 0.08
(2) 8' Dipole	C	From Leg	6.00 0.00 0.00	0.0000	145.00	No Ice 1/2" Ice 1" Ice	2.78 3.96 5.16	2.78 3.96 5.16	0.03 0.05 0.08
*****									
(2) KA-6030	A	From Face	3.00	0.0000	162.00	No Ice	0.77	0.28	0.03

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	Client	Verizon Wireless	Designed by	tvuong

Section Elevation	z	K <sub>Z</sub>	q <sub>z</sub>	A <sub>G</sub>	F a c e	A <sub>F</sub>	A <sub>R</sub>	A <sub>leg</sub>	Leg %	C <sub>A</sub> A <sub>A</sub> In Face	C <sub>A</sub> A <sub>A</sub> Out Face
ft	ft		psf	ft <sup>2</sup>		ft <sup>2</sup>	ft <sup>2</sup>	ft <sup>2</sup>		ft <sup>2</sup>	ft <sup>2</sup>
T4 140.00-120.00	130.00	1.065	30	166.675	C	10.802	9.599		47.05	20.000	0.000
					A	17.167	13.356	13.356	43.76	87.480	0.000
					B	17.167	13.356		43.76	73.494	0.000
					C	17.167	13.356		43.76	20.000	0.000
T5 120.00-100.00	110.00	1.016	29	209.283	A	20.286	18.574	18.574	47.80	87.480	0.000
					B	20.286	18.574		47.80	73.620	0.000
					C	20.286	18.574		47.80	20.000	0.000
T6 100.00-80.00	90.00	0.959	27	249.283	A	16.501	18.574	18.574	52.96	87.480	0.000
					B	16.501	18.574		52.96	73.620	0.000
					C	16.501	18.574		52.96	20.000	0.000
T7 80.00-60.00	70.00	0.892	25	289.283	A	53.313	18.574	18.574	25.84	87.480	0.000
					B	53.313	18.574		25.84	73.620	0.000
					C	53.313	18.574		25.84	20.000	0.000
T8 60.00-40.00	50.00	0.811	23	328.344	A	26.164	16.694	16.694	38.95	87.480	0.000
					B	26.164	16.694		38.95	73.620	0.000
					C	26.164	16.694		38.95	20.000	0.000
T9 40.00-20.00	30.00	0.701	20	374.393	A	31.701	28.798	28.798	47.60	87.480	0.000
					B	31.701	28.798		47.60	73.620	0.000
					C	31.701	28.798		47.60	20.000	0.000
T10 20.00-0.00	10.00	0.7	20	414.393	A	56.062	28.798	28.798	33.94	87.480	0.000
					B	56.062	28.798		33.94	73.620	0.000
					C	56.062	28.798		33.94	20.000	0.000

### Tower Pressure - With Ice

$$G_H = 0.850$$

Section Elevation	z	K <sub>Z</sub>	q <sub>z</sub>	t <sub>z</sub>	A <sub>G</sub>	F a c e	A <sub>F</sub>	A <sub>R</sub>	A <sub>leg</sub>	Leg %	C <sub>A</sub> A <sub>A</sub> In Face	C <sub>A</sub> A <sub>A</sub> Out Face
ft	ft		psf	in	ft <sup>2</sup>		ft <sup>2</sup>	ft <sup>2</sup>	ft <sup>2</sup>		ft <sup>2</sup>	ft <sup>2</sup>
T1 185.00-180.00	182.50	1.174	6	1.0085	26.830	A	3.064	6.750	3.660	37.29	3.509	0.000
						B	3.064	6.750		37.29	29.225	0.000
						C	3.064	6.750		37.29	0.000	0.000
T2 180.00-160.00	170.00	1.15	6	1.0014	108.130	A	9.770	26.043	16.259	45.40	21.805	0.000
						B	9.770	26.043		45.40	116.735	0.000
						C	9.770	26.043		45.40	25.736	0.000
T3 160.00-140.00	150.00	1.11	6	0.9890	128.098	A	10.802	26.886	16.203	42.99	79.430	0.000
						B	10.802	26.886		42.99	123.420	0.000
						C	10.802	26.886		42.99	36.635	0.000
T4 140.00-120.00	130.00	1.065	6	0.9749	169.929	A	17.167	36.602	19.866	36.95	103.315	0.000
						B	17.167	36.602		36.95	148.461	0.000
						C	17.167	36.602		36.95	36.488	0.000
T5 120.00-100.00	110.00	1.016	5	0.9588	212.483	A	20.286	40.536	24.977	41.07	102.887	0.000
						B	20.286	40.536		41.07	148.317	0.000
						C	20.286	40.536		41.07	36.319	0.000
T6 100.00-80.00	90.00	0.959	5	0.9397	252.420	A	16.501	37.254	24.849	46.23	102.383	0.000
						B	16.501	37.254		46.23	147.538	0.000
						C	16.501	37.254		46.23	36.121	0.000
T7 80.00-60.00	70.00	0.892	5	0.9164	292.342	A	53.313	57.264	24.694	22.33	101.766	0.000
						B	53.313	57.264		22.33	146.586	0.000
						C	53.313	57.264		22.33	35.877	0.000
T8 60.00-40.00	50.00	0.811	4	0.8861	331.301	A	26.164	38.067	22.611	35.20	100.963	0.000
						B	26.164	38.067		35.20	145.349	0.000
						C	26.164	38.067		35.20	35.561	0.000
T9 40.00-20.00	30.00	0.701	4	0.8419	377.203	A	31.701	50.364	34.420	41.94	99.795	0.000



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	<b>Project</b>	RF Filter Add	<b>Date</b>	15:25:45 09/15/23
	<b>Client</b>	Verizon Wireless	<b>Designed by</b>	tvuong

Section Elevation <i>ft</i>	Add Weight <i>K</i>	Self Weight <i>K</i>	F a c e	<i>e</i>	<i>C<sub>F</sub></i>	<i>q<sub>z</sub></i> <i>psf</i>	<i>D<sub>F</sub></i>	<i>D<sub>R</sub></i>	<i>A<sub>E</sub></i> <i>ft<sup>2</sup></i>	<i>F</i> <i>K</i>	<i>w</i> <i>plf</i>	Ctrl. Face
185.00-180.00			B	0.194	2.616		1	1	4.199			
			C	0.194	2.616		1	1	4.199			
T2	0.80	0.65	A	0.185	2.648	33	1	1	15.251	2.49	124.33	B
180.00-160.00			B	0.185	2.648		1	1	15.251			
			C	0.185	2.648		1	1	15.251			
T3	1.30	1.08	A	0.163	2.723	31	1	1	16.265	3.05	152.40	B
160.00-140.00			B	0.163	2.723		1	1	16.265			
			C	0.163	2.723		1	1	16.265			
T4	1.43	1.61	A	0.183	2.653	30	1	1	24.745	3.75	187.65	B
140.00-120.00			B	0.183	2.653		1	1	24.745			
			C	0.183	2.653		1	1	24.745			
T5	1.44	2.07	A	0.186	2.645	29	1	1	29.910	3.91	195.41	B
120.00-100.00			B	0.186	2.645		1	1	29.910			
			C	0.186	2.645		1	1	29.910			
T6	1.44	2.01	A	0.141	2.806	27	1	1	26.000	3.55	177.44	B
100.00-80.00			B	0.141	2.806		1	1	26.000			
			C	0.141	2.806		1	1	26.000			
T7	1.44	5.68	A	0.249	2.442	25	1	1	63.532	5.07	253.36	B
80.00-60.00			B	0.249	2.442		1	1	63.532			
			C	0.249	2.442		1	1	63.532			
T8	1.44	3.35	A	0.131	2.844	23	1	1	35.282	3.53	176.72	B
60.00-40.00			B	0.131	2.844		1	1	35.282			
			C	0.131	2.844		1	1	35.282			
T9	1.44	4.15	A	0.162	2.729	20	1	1	44.742	3.42	171.05	B
40.00-20.00			B	0.162	2.729		1	1	44.742			
			C	0.162	2.729		1	1	44.742			
T10	1.44	6.97	A	0.205	2.58	20	1	1	69.693	4.39	219.49	B
20.00-0.00			B	0.205	2.58		1	1	69.693			
			C	0.205	2.58		1	1	69.693			
Sum Weight:	12.29	27.72						OTM	2904.69 kip-ft	33.76		

### Tower Forces - No Ice - Wind 60 To Face

Section Elevation <i>ft</i>	Add Weight <i>K</i>	Self Weight <i>K</i>	F a c e	<i>e</i>	<i>C<sub>F</sub></i>	<i>q<sub>z</sub></i> <i>psf</i>	<i>D<sub>F</sub></i>	<i>D<sub>R</sub></i>	<i>A<sub>E</sub></i> <i>ft<sup>2</sup></i>	<i>F</i> <i>K</i>	<i>w</i> <i>plf</i>	Ctrl. Face
T1	0.14	0.15	A	0.194	2.616	33	0.8	1	3.586	0.56	111.09	C
185.00-180.00			B	0.194	2.616		0.8	1	3.586			
			C	0.194	2.616		0.8	1	3.586			
T2	0.80	0.65	A	0.185	2.648	33	0.8	1	13.297	2.34	117.18	C
180.00-160.00			B	0.185	2.648		0.8	1	13.297			
			C	0.185	2.648		0.8	1	13.297			
T3	1.30	1.08	A	0.163	2.723	31	0.8	1	14.104	2.89	144.55	C
160.00-140.00			B	0.163	2.723		0.8	1	14.104			
			C	0.163	2.723		0.8	1	14.104			
T4	1.43	1.61	A	0.183	2.653	30	0.8	1	21.311	3.52	175.98	C
140.00-120.00			B	0.183	2.653		0.8	1	21.311			
			C	0.183	2.653		0.8	1	21.311			
T5	1.44	2.07	A	0.186	2.645	29	0.8	1	25.853	3.65	182.31	C
120.00-100.00			B	0.186	2.645		0.8	1	25.853			
			C	0.186	2.645		0.8	1	25.853			
T6	1.44	2.01	A	0.141	2.806	27	0.8	1	22.700	3.34	166.76	C

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	Project	RF Filter Add	Date	15:25:45 09/15/23
	Client	Verizon Wireless	Designed by	tvuong

Section Elevation	Add Weight	Self Weight	F a c e	e	C <sub>F</sub>	q <sub>z</sub> psf	D <sub>F</sub>	D <sub>R</sub>	A <sub>E</sub> ft <sup>2</sup>	F K	w plf	Ctrl. Face
ft	K	K							kip-ft			

### Tower Forces - With Ice - Wind Normal To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C <sub>F</sub>	q <sub>z</sub> psf	D <sub>F</sub>	D <sub>R</sub>	A <sub>E</sub> ft <sup>2</sup>	F K	w plf	Ctrl. Face
ft	K	K										
T1 185.00-180.00	0.40	0.48	A	0.366	2.136	6	1	1	7.264	0.18	35.10	B
			B	0.366	2.136		1	1	7.264			
			C	0.366	2.136		1	1	7.264			
T2 180.00-160.00	2.10	1.80	A	0.331	2.216	6	1	1	25.636	0.73	36.65	B
			B	0.331	2.216		1	1	25.636			
			C	0.331	2.216		1	1	25.636			
T3 160.00-140.00	3.28	2.30	A	0.294	2.312	6	1	1	26.857	0.90	44.84	B
			B	0.294	2.312		1	1	26.857			
			C	0.294	2.312		1	1	26.857			
T4 140.00-120.00	3.81	3.43	A	0.316	2.253	6	1	1	39.282	1.08	54.24	B
			B	0.316	2.253		1	1	39.282			
			C	0.316	2.253		1	1	39.282			
T5 120.00-100.00	3.78	4.14	A	0.286	2.333	5	1	1	44.395	1.10	54.98	B
			B	0.286	2.333		1	1	44.395			
			C	0.286	2.333		1	1	44.395			
T6 100.00-80.00	3.73	3.73	A	0.213	2.553	5	1	1	37.992	1.01	50.36	B
			B	0.213	2.553		1	1	37.992			
			C	0.213	2.553		1	1	37.992			
T7 80.00-60.00	3.68	9.99	A	0.378	2.109	5	1	1	89.223	1.29	64.54	B
			B	0.378	2.109		1	1	89.223			
			C	0.378	2.109		1	1	89.223			
T8 60.00-40.00	3.60	5.52	A	0.194	2.617	4	1	1	47.993	0.94	47.25	B
			B	0.194	2.617		1	1	47.993			
			C	0.194	2.617		1	1	47.993			
T9 40.00-20.00	3.50	6.77	A	0.218	2.538	4	1	1	60.801	0.90	44.97	B
			B	0.218	2.538		1	1	60.801			
			C	0.218	2.538		1	1	60.801			
T10 20.00-0.00	3.30	10.70	A	0.277	2.359	4	1	1	91.240	1.07	53.71	B
			B	0.277	2.359		1	1	91.240			
			C	0.277	2.359		1	1	91.240			
Sum Weight:	31.19	48.86						OTM	819.11 kip-ft	9.21		

### Tower Forces - With Ice - Wind 60 To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C <sub>F</sub>	q <sub>z</sub> psf	D <sub>F</sub>	D <sub>R</sub>	A <sub>E</sub> ft <sup>2</sup>	F K	w plf	Ctrl. Face
ft	K	K										
T1 185.00-180.00	0.40	0.48	A	0.366	2.136	6	0.8	1	6.651	0.17	33.75	C
			B	0.366	2.136		0.8	1	6.651			

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Section Elevation ft	Add Weight K	Self Weight K	F a c e	e	C <sub>F</sub>	q <sub>z</sub> psf	D <sub>F</sub>	D <sub>R</sub>	A <sub>E</sub> ft <sup>2</sup>	F K	w plf	Ctrl. Face
T7 80.00-60.00	3.68	9.99	C	0.213	2.553		0.85	1	35.517			
			A	0.378	2.109	5	0.85	1	81.226	1.20	59.94	C
			B	0.378	2.109		0.85	1	81.226			
			C	0.378	2.109		0.85	1	81.226			
T8 60.00-40.00	3.60	5.52	A	0.194	2.617	4	0.85	1	44.069	0.88	44.25	C
			B	0.194	2.617		0.85	1	44.069			
			C	0.194	2.617		0.85	1	44.069			
T9 40.00-20.00	3.50	6.77	A	0.218	2.538	4	0.85	1	56.045	0.84	42.09	C
			B	0.218	2.538		0.85	1	56.045			
			C	0.218	2.538		0.85	1	56.045			
T10 20.00-0.00	3.30	10.70	A	0.277	2.359	4	0.85	1	82.831	0.99	49.64	C
			B	0.277	2.359		0.85	1	82.831			
			C	0.277	2.359		0.85	1	82.831			
Sum Weight:	31.19	48.86						OTM	765.37 kip-ft	8.60		

### Tower Forces - Service - Wind Normal To Face

Section Elevation ft	Add Weight K	Self Weight K	F a c e	e	C <sub>F</sub>	q <sub>z</sub> psf	D <sub>F</sub>	D <sub>R</sub>	A <sub>E</sub> ft <sup>2</sup>	F K	w plf	Ctrl. Face
T1 185.00-180.00	0.14	0.15	A	0.194	2.616	9	1	1	4.199	0.17	33.26	B
			B	0.194	2.616		1	1	4.199			
			C	0.194	2.616		1	1	4.199			
T2 180.00-160.00	0.80	0.65	A	0.185	2.648	9	1	1	15.251	0.69	34.42	B
			B	0.185	2.648		1	1	15.251			
			C	0.185	2.648		1	1	15.251			
T3 160.00-140.00	1.30	1.08	A	0.163	2.723	9	1	1	16.265	0.84	42.19	B
			B	0.163	2.723		1	1	16.265			
			C	0.163	2.723		1	1	16.265			
T4 140.00-120.00	1.43	1.61	A	0.183	2.653	8	1	1	24.803	1.04	52.00	B
			B	0.183	2.653		1	1	24.803			
			C	0.183	2.653		1	1	24.803			
T5 120.00-100.00	1.44	2.07	A	0.186	2.645	8	1	1	30.912	1.10	54.99	B
			B	0.186	2.645		1	1	30.912			
			C	0.186	2.645		1	1	30.912			
T6 100.00-80.00	1.44	2.01	A	0.141	2.806	8	1	1	27.026	1.00	50.04	B
			B	0.141	2.806		1	1	27.026			
			C	0.141	2.806		1	1	27.026			
T7 80.00-60.00	1.44	5.68	A	0.249	2.442	7	1	1	64.172	1.41	70.60	B
			B	0.249	2.442		1	1	64.172			
			C	0.249	2.442		1	1	64.172			
T8 60.00-40.00	1.44	3.35	A	0.131	2.844	6	1	1	35.611	0.98	49.17	B
			B	0.131	2.844		1	1	35.611			
			C	0.131	2.844		1	1	35.611			
T9 40.00-20.00	1.44	4.15	A	0.162	2.729	5	1	1	48.082	0.99	49.48	B
			B	0.162	2.729		1	1	48.082			
			C	0.162	2.729		1	1	48.082			
T10 20.00-0.00	1.44	6.97	A	0.205	2.58	5	1	1	72.630	1.25	62.53	B
			B	0.205	2.58		1	1	72.630			
			C	0.205	2.58		1	1	72.630			
Sum Weight:	12.29	27.72						OTM	810.39 kip-ft	9.47		

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Section Elevation ft	Add Weight K	Self Weight K	F a c e	e	C <sub>F</sub>	q <sub>z</sub> psf	D <sub>F</sub>	D <sub>R</sub>	A <sub>E</sub> ft <sup>2</sup>	F K	w plf	Ctrl. Face
160.00-140.00			B	0.163	2.723		0.85	1	14.644			
			C	0.163	2.723		0.85	1	14.644			
T4	1.43	1.61	A	0.183	2.653	8	0.85	1	22.228	1.03	51.52	C
140.00-120.00			B	0.183	2.653		0.85	1	22.228			
			C	0.183	2.653		0.85	1	22.228			
T5	1.44	2.07	A	0.186	2.645	8	0.85	1	27.870	1.08	54.12	C
120.00-100.00			B	0.186	2.645		0.85	1	27.870			
			C	0.186	2.645		0.85	1	27.870			
T6	1.44	2.01	A	0.141	2.806	8	0.85	1	24.551	0.99	49.57	C
100.00-80.00			B	0.141	2.806		0.85	1	24.551			
			C	0.141	2.806		0.85	1	24.551			
T7	1.44	5.68	A	0.249	2.442	7	0.85	1	56.175	1.33	66.43	C
80.00-60.00			B	0.249	2.442		0.85	1	56.175			
			C	0.249	2.442		0.85	1	56.175			
T8	1.44	3.35	A	0.131	2.844	6	0.85	1	31.686	0.95	47.64	C
60.00-40.00			B	0.131	2.844		0.85	1	31.686			
			C	0.131	2.844		0.85	1	31.686			
T9	1.44	4.15	A	0.162	2.729	5	0.85	1	43.327	0.95	47.73	C
40.00-20.00			B	0.162	2.729		0.85	1	43.327			
			C	0.162	2.729		0.85	1	43.327			
T10	1.44	6.97	A	0.205	2.58	5	0.85	1	64.221	1.17	58.74	C
20.00-0.00			B	0.205	2.58		0.85	1	64.221			
			C	0.205	2.58		0.85	1	64.221			
Sum Weight:	12.29	27.72						OTM	789.85 kip-ft	9.17		

### Force Totals

Load Case	Vertical Forces K	Sum of Forces X K	Sum of Forces Z K	Sum of Overturning Moments, M <sub>x</sub> kip-ft	Sum of Overturning Moments, M <sub>y</sub> kip-ft	Sum of Torques kip-ft
Leg Weight	10.02					
Bracing Weight	17.70					
Total Member Self-Weight	27.72			-16.68	4.29	
Total Weight	49.44			-16.68	4.29	
Wind 0 deg - No Ice		0.03	-41.99	-4483.00	0.79	3.49
Wind 30 deg - No Ice		21.32	-36.88	-3990.83	-2295.17	8.29
Wind 60 deg - No Ice		36.49	-21.08	-2294.05	-3941.31	-5.62
Wind 90 deg - No Ice		43.65	-0.04	-22.44	-4667.66	-21.15
Wind 120 deg - No Ice		37.60	21.65	2266.66	-3965.96	-18.56
Wind 150 deg - No Ice		19.35	33.50	3589.49	-2079.96	-1.51
Wind 180 deg - No Ice		-0.05	39.26	4241.27	11.44	-3.40
Wind 210 deg - No Ice		-21.36	36.86	3954.09	2309.59	-8.29
Wind 240 deg - No Ice		-38.87	22.42	2361.71	4132.17	5.53
Wind 270 deg - No Ice		-43.70	0.04	-10.99	4683.31	21.08
Wind 300 deg - No Ice		-35.30	-20.33	-2201.31	3803.56	18.56
Wind 330 deg - No Ice		-19.37	-33.55	-3628.94	2092.14	1.58
Member Ice	21.14					
Total Weight Ice	98.89			-38.98	-7.75	
Wind 0 deg - Ice		0.02	-11.14	-1256.35	-10.55	0.98
Wind 30 deg - Ice		5.77	-9.99	-1137.41	-642.89	2.29
Wind 60 deg - Ice		10.25	-5.94	-691.31	-1133.57	-0.65
Wind 90 deg - Ice		11.64	-0.02	-42.23	-1281.70	-5.28

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Comb. No.	Description
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	185 - 180	Leg	Max Tension	6	2.05	-0.00	-0.00
			Max. Compression	10	-2.70	0.01	-0.01
			Max. Mx	10	0.16	0.03	0.01
			Max. My	2	0.14	-0.01	-0.04
			Max. Vy	20	1.14	0.00	0.00
			Max. Vx	2	1.16	0.00	0.00
		Diagonal	Max Tension	9	1.62	0.00	0.00
			Max. Compression	20	-1.86	0.00	0.00
			Max. Mx	30	0.23	0.01	-0.00
			Max. My	14	-1.50	0.00	0.00
			Max. Vy	30	-0.01	0.01	-0.00
			Max. Vx	14	0.00	0.00	0.00
		Top Girt	Max Tension	18	0.60	0.00	0.00
			Max. Compression	7	-0.44	0.00	0.00
			Max. Mx	26	0.17	-0.02	0.00
			Max. My	8	0.09	0.00	0.00
			Max. Vy	26	-0.02	0.00	0.00
			Max. Vx	8	-0.00	0.00	0.00
T2	180 - 160	Leg	Max Tension	7	27.60	-0.28	0.18
			Max. Compression	18	-33.01	0.59	-0.39
			Max. Mx	20	-3.66	-0.93	0.03
			Max. My	2	10.84	-0.06	-0.81
			Max. Vy	20	-0.75	0.56	0.03
			Max. Vx	2	-0.72	-0.01	0.69
		Diagonal	Max Tension	20	4.14	0.00	0.00
			Max. Compression	18	-4.34	0.00	0.00
			Max. Mx	18	3.35	0.03	-0.00
			Max. My	4	-4.16	-0.01	-0.01
			Max. Vy	31	-0.01	0.02	-0.00
			Max. Vx	4	0.00	-0.01	-0.01
		Top Girt	Max Tension	22	0.39	0.00	0.00
			Max. Compression	11	-0.26	0.00	0.00
			Max. Mx	26	0.14	-0.02	0.00

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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
T7	80 - 60	Diagonal	Max. Mx	18	-167.49	-0.82	0.00
			Max. My	20	-8.64	-0.12	-0.90
			Max. Vy	19	0.28	0.75	-0.00
			Max. Vx	20	-0.15	-0.12	-0.90
			Max Tension	16	5.15	0.00	0.00
			Max. Compression	16	-5.33	0.00	0.00
			Max. Mx	29	1.20	0.06	-0.01
			Max. My	30	-0.97	0.05	0.01
		Leg	Max. Vy	29	0.04	0.06	-0.01
			Max. Vx	30	-0.00	0.00	0.00
			Max Tension	7	169.17	0.76	-0.00
			Max. Compression	18	-195.91	1.80	0.05
			Max. Mx	18	-194.44	4.77	-0.05
			Max. My	20	-12.50	-0.25	-1.65
			Max. Vy	18	-5.04	4.63	-0.05
			Max. Vx	20	1.45	-0.25	-1.65
		Diagonal	Max Tension	7	6.78	0.03	-0.00
			Max. Compression	18	-7.77	0.00	0.00
			Max. Mx	18	2.92	0.10	0.00
			Max. My	36	-0.77	0.02	-0.01
		Horizontal	Max. Vy	18	-0.04	0.10	0.00
			Max. Vx	28	-0.00	0.00	0.00
			Max Tension	20	1.04	0.05	0.02
			Max. Compression	21	-0.94	0.04	0.02
			Max. Mx	35	-0.11	0.09	0.04
			Max. My	35	-0.12	0.09	0.04
			Max. Vy	35	-0.06	0.09	0.04
			Max. Vx	35	-0.01	0.00	0.00
		Redund Horz 1 Bracing	Max Tension	18	4.85	0.00	0.00
			Max. Compression	7	-4.27	0.00	0.00
			Max. Mx	26	0.46	-0.03	0.00
			Max. My	30	1.51	0.00	0.00
		Redund Diag 1 Bracing	Max. Vy	26	0.03	0.00	0.00
			Max. Vx	30	0.00	0.00	0.00
			Max Tension	7	2.40	0.00	0.00
			Max. Compression	18	-2.89	0.00	0.00
T8	60 - 40	Leg	Max. Mx	28	0.28	-0.03	0.00
			Max. My	31	-0.09	0.00	-0.00
			Max. Vy	28	0.03	0.00	0.00
			Max. Vx	31	0.00	0.00	0.00
			Max Tension	7	190.69	1.19	0.01
			Max. Compression	18	-222.01	-1.71	-0.00
			Max. Mx	18	-221.89	2.39	-0.00
			Max. My	20	-13.09	-0.25	-1.65
		Diagonal	Max. Vy	18	-0.86	2.39	-0.00
			Max. Vx	20	-0.49	-0.25	-1.65
			Max Tension	23	6.57	0.08	-0.01
			Max. Compression	10	-7.29	0.00	0.00
			Max. Mx	35	1.96	0.12	0.01
			Max. My	10	-7.26	0.01	0.02
			Max. Vy	29	0.06	0.12	-0.01
			Max. Vx	10	0.00	0.00	0.00
		Secondary Horizontal	Max Tension	6	1.14	0.10	0.00
			Max. Compression	21	-1.15	0.06	0.02
			Max. Mx	28	-0.13	0.13	0.03
			Max. My	20	-1.05	0.09	0.03
			Max. Vy	30	-0.08	0.12	0.02
			Max. Vx	30	-0.01	0.00	0.00



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### Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Leg C	Max. Vert	18	283.41	25.76	-15.07
	Max. H <sub>x</sub>	18	283.41	25.76	-15.07
	Max. H <sub>z</sub>	7	-237.33	-21.59	12.63
	Min. Vert	7	-237.33	-21.59	12.63
	Min. H <sub>x</sub>	7	-237.33	-21.59	12.63
	Min. H <sub>z</sub>	18	283.41	25.76	-15.07
Leg B	Max. Vert	10	272.71	-24.75	-14.89
	Max. H <sub>x</sub>	23	-228.12	20.63	12.50
	Max. H <sub>z</sub>	23	-228.12	20.63	12.50
	Min. Vert	23	-228.12	20.63	12.50
	Min. H <sub>x</sub>	10	272.71	-24.75	-14.89
	Min. H <sub>z</sub>	10	272.71	-24.75	-14.89
Leg A	Max. Vert	2	268.34	0.09	28.09
	Max. H <sub>x</sub>	21	15.35	2.40	1.38
	Max. H <sub>z</sub>	2	268.34	0.09	28.09
	Min. Vert	15	-219.81	-0.10	-23.19
	Min. H <sub>x</sub>	9	15.99	-2.41	1.44
	Min. H <sub>z</sub>	15	-219.81	-0.10	-23.19

### Tower Mast Reaction Summary

Load Combination	Vertical K	Shear <sub>x</sub> K	Shear <sub>z</sub> K	Overturning Moment, M <sub>x</sub> kip-ft	Overturning Moment, M <sub>z</sub> kip-ft	Torque kip-ft
Dead Only	49.44	0.00	0.00	-16.68	4.29	-0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	59.33	0.03	-41.98	-4520.44	1.65	3.45
0.9 Dead+1.0 Wind 0 deg - No Ice	44.50	0.03	-41.99	-4506.77	0.36	3.46
1.2 Dead+1.0 Wind 30 deg - No Ice	59.33	21.32	-36.88	-4024.64	-2311.87	8.20
0.9 Dead+1.0 Wind 30 deg - No Ice	44.50	21.32	-36.88	-4011.88	-2308.72	8.22
1.2 Dead+1.0 Wind 60 deg - No Ice	59.33	36.49	-21.07	-2314.95	-3970.59	-5.76
0.9 Dead+1.0 Wind 60 deg - No Ice	44.50	36.49	-21.08	-2305.47	-3964.24	-5.72
1.2 Dead+1.0 Wind 90 deg - No Ice	59.33	43.65	-0.04	-26.05	-4702.26	-21.30
0.9 Dead+1.0 Wind 90 deg - No Ice	44.50	43.65	-0.04	-20.97	-4694.56	-21.26
1.2 Dead+1.0 Wind 120 deg - No Ice	59.33	37.60	21.65	2280.35	-3995.10	-18.66
0.9 Dead+1.0 Wind 120 deg - No Ice	44.50	37.60	21.65	2281.05	-3988.80	-18.64
1.2 Dead+1.0 Wind 150 deg - No Ice	59.33	19.35	33.50	3613.64	-2095.06	-1.54
0.9 Dead+1.0 Wind 150 deg - No Ice	44.50	19.35	33.50	3611.71	-2092.32	-1.53
1.2 Dead+1.0 Wind 180 deg - No Ice	59.33	-0.05	39.25	4270.53	12.37	-3.37
0.9 Dead+1.0 Wind 180 deg - No Ice	44.50	-0.05	39.26	4267.30	11.06	-3.38
1.2 Dead+1.0 Wind 210 deg - No Ice	59.33	-21.36	36.86	3980.95	2328.08	-8.20

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## Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.00	-49.44	0.00	-0.00	49.44	-0.00	0.000%
2	0.03	-59.33	-41.99	-0.03	59.33	41.98	0.002%
3	0.03	-44.50	-41.99	-0.03	44.50	41.99	0.002%
4	21.32	-59.33	-36.88	-21.32	59.33	36.88	0.003%
5	21.32	-44.50	-36.88	-21.32	44.50	36.88	0.002%
6	36.49	-59.33	-21.08	-36.49	59.33	21.07	0.003%
7	36.49	-44.50	-21.08	-36.49	44.50	21.08	0.002%
8	43.65	-59.33	-0.04	-43.65	59.33	0.04	0.003%
9	43.65	-44.50	-0.04	-43.65	44.50	0.04	0.002%
10	37.60	-59.33	21.65	-37.60	59.33	-21.65	0.002%
11	37.60	-44.50	21.65	-37.60	44.50	-21.65	0.002%
12	19.35	-59.33	33.50	-19.35	59.33	-33.50	0.002%
13	19.35	-44.50	33.50	-19.35	44.50	-33.50	0.002%
14	-0.05	-59.33	39.26	0.05	59.33	-39.25	0.002%
15	-0.05	-44.50	39.26	0.05	44.50	-39.26	0.002%
16	-21.36	-59.33	36.86	21.36	59.33	-36.86	0.003%
17	-21.36	-44.50	36.86	21.36	44.50	-36.86	0.002%
18	-38.87	-59.33	22.42	38.87	59.33	-22.42	0.003%
19	-38.87	-44.50	22.42	38.87	44.50	-22.42	0.002%
20	-43.70	-59.33	0.04	43.70	59.33	-0.04	0.003%
21	-43.70	-44.50	0.04	43.70	44.50	-0.04	0.002%
22	-35.30	-59.33	-20.33	35.30	59.33	20.33	0.003%
23	-35.30	-44.50	-20.33	35.30	44.50	20.33	0.002%
24	-19.37	-59.33	-33.55	19.37	59.33	33.54	0.002%
25	-19.37	-44.50	-33.55	19.37	44.50	33.54	0.002%
26	0.00	-108.78	0.00	0.00	108.78	-0.00	0.001%
27	0.02	-108.78	-11.14	-0.02	108.78	11.14	0.000%
28	5.77	-108.78	-9.99	-5.77	108.78	9.99	0.000%
29	10.25	-108.78	-5.94	-10.25	108.78	5.94	0.000%
30	11.64	-108.78	-0.02	-11.64	108.78	0.02	0.000%
31	9.74	-108.78	5.61	-9.74	108.78	-5.61	0.000%
32	5.23	-108.78	9.09	-5.23	108.78	-9.09	0.000%
33	-0.03	-108.78	10.69	0.03	108.78	-10.69	0.000%
34	-5.78	-108.78	9.99	5.78	108.78	-9.99	0.000%
35	-10.64	-108.78	6.16	10.64	108.78	-6.16	0.000%
36	-11.65	-108.78	0.02	11.65	108.78	-0.02	0.000%
37	-9.37	-108.78	-5.40	9.37	108.78	5.40	0.000%
38	-5.24	-108.78	-9.10	5.24	108.78	9.10	0.000%
39	0.01	-49.44	-11.75	-0.01	49.44	11.75	0.001%
40	5.97	-49.44	-10.32	-5.97	49.44	10.32	0.001%
41	10.21	-49.44	-5.90	-10.21	49.44	5.90	0.001%
42	12.21	-49.44	-0.01	-12.21	49.44	0.01	0.001%
43	10.52	-49.44	6.06	-10.52	49.44	-6.06	0.001%
44	5.42	-49.44	9.39	-5.42	49.44	-9.39	0.001%
45	-0.01	-49.44	11.00	0.01	49.44	-11.00	0.001%
46	-5.98	-49.44	10.32	5.98	49.44	-10.32	0.001%
47	-10.87	-49.44	6.27	10.87	49.44	-6.27	0.001%
48	-12.23	-49.44	0.01	12.23	49.44	-0.01	0.001%
49	-9.89	-49.44	-5.69	9.89	49.44	5.69	0.001%
50	-5.43	-49.44	-9.40	5.43	49.44	9.40	0.001%

## Non-Linear Convergence Results



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Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	185 - 180	6.766	47	0.3657	0.0267
T2	180 - 160	6.379	47	0.3641	0.0267
T3	160 - 140	4.881	47	0.3261	0.0259
T4	140 - 120	3.597	47	0.2708	0.0214
T5	120 - 100	2.544	47	0.2151	0.0163
T6	100 - 80	1.723	47	0.1634	0.0124
T7	80 - 60	1.085	47	0.1261	0.0086
T8	60 - 40	0.605	47	0.0885	0.0056
T9	40 - 20	0.278	47	0.0554	0.0035
T10	20 - 0	0.081	47	0.0276	0.0016

### Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
185.00	DB636-A	47	6.766	0.3657	0.0267	197899
174.00	PiROD 12' Lightweight T-Frame	47	5.917	0.3573	0.0267	54165
162.00	Site Pro 1 VFA12-HD	47	5.024	0.3313	0.0262	20305
151.00	10' Sector Frame	47	4.273	0.3016	0.0243	19597
145.00	6' Side Arm Mount	47	3.895	0.2848	0.0227	20680
138.00	3' Dish	47	3.481	0.2652	0.0208	21370

### Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	185 - 180	24.495	18	1.3266	0.0967
T2	180 - 160	23.094	18	1.3206	0.0968
T3	160 - 140	17.663	18	1.1818	0.0939
T4	140 - 120	13.008	18	0.9811	0.0774
T5	120 - 100	9.197	18	0.7791	0.0590
T6	100 - 80	6.224	18	0.5915	0.0450
T7	80 - 60	3.916	18	0.4562	0.0310
T8	60 - 40	2.181	18	0.3200	0.0204
T9	40 - 20	1.002	18	0.2001	0.0125
T10	20 - 0	0.293	18	0.0996	0.0059

### Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
185.00	DB636-A	18	24.495	1.3266	0.0967	56012
174.00	PiROD 12' Lightweight T-Frame	18	21.419	1.2959	0.0968	15158
162.00	Site Pro 1 VFA12-HD	18	18.178	1.2009	0.0948	5635
151.00	10' Sector Frame	18	15.459	1.0930	0.0878	5425
145.00	6' Side Arm Mount	18	14.091	1.0321	0.0824	5718

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### Leg Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio $\frac{P_u}{\phi P_n}$
T1	185 - 180	P2x.154	5.00	5.00	76.2 K=1.00	1.0745	-2.70	31.62	0.085 <sup>1</sup> ✓
T2	180 - 160	P2.5x.203	20.00	5.00	63.3 K=1.00	1.7040	-33.01	57.19	0.577 <sup>1</sup> ✓
T3	160 - 140	Sabre 2.875"x0.375"	20.03	5.01	67.2 K=1.00	2.9452	-73.56	95.23	0.773 <sup>1</sup> ✓
T4	140 - 120	P3.5x.318 (4.00 OD)	20.03	2.58	23.7 K=1.00	3.6784	-108.52	158.89	0.683 <sup>1</sup> ✓
T5	120 - 100	Pipe 5 Std (5.563"ODx0.258")	20.03	3.44	22.0 K=1.00	4.2999	-138.00	186.76	0.739 <sup>1</sup> ✓
T6	100 - 80	Pipe 5 XStr (5.563"ODx0.375")	20.03	6.68	43.6 K=1.00	6.1120	-167.49	239.39	0.700 <sup>1</sup> ✓
T7	80 - 60	Pipe 5 XStr (5.563"ODx0.375")	20.03	1.67	10.9 K=1.00	6.1120	-195.91	272.66	0.719 <sup>1</sup> ✓
T8	60 - 40	HSS5x0.500	20.03	5.16	38.7 K=1.00	7.0686	-222.01	285.12	0.779 <sup>1</sup> ✓
T9	40 - 20	P8x.322	20.03	5.14	21.0 K=1.00	8.3993	-248.11	365.96	0.678 <sup>1</sup> ✓
T10	20 - 0	P8x.322	20.03	2.50	10.2 K=1.00	8.3993	-275.19	375.09	0.734 <sup>1</sup> ✓

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

### Diagonal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio $\frac{P_u}{\phi P_n}$
T1	185 - 180	L2x2x1/8	7.07	3.28	104.2 K=1.05	0.4844	-1.86	11.29	0.165 <sup>1</sup> ✓
T2	180 - 160	L2x2x1/8	7.07	3.25	103.5 K=1.06	0.4844	-4.34	11.37	0.382 <sup>1</sup> ✓
T3	160 - 140	L2x2x3/16	8.40	4.09	124.5 K=1.00	0.7150	-4.70	13.20	0.356 <sup>1</sup> ✓
T4	140 - 120	L2x2x3/16	10.08	4.87	148.4 K=1.00	0.7150	-4.70	9.30	0.505 <sup>1</sup> ✓
T5	120 - 100	L2 1/2x2 1/2x3/16	12.58	6.09	147.7 K=1.00	0.9020	-5.51	11.83	0.465 <sup>1</sup> ✓
T6	100 - 80	L2 1/2x2 1/2x3/16	14.32	6.96	168.8 K=1.00	0.9020	-5.33	9.06	0.588 <sup>1</sup> ✓
T7	80 - 60	L3x3x3/16	7.90	7.38	107.2 K=1.14	1.0900	-7.77	24.69	0.315 <sup>1</sup> ✓
T8	60 - 40	L3x3x1/4	19.30	9.56	193.8 K=1.00	1.4400	-7.22	10.97	0.658 <sup>1</sup> ✓
T9	40 - 20	L3-1/2x3-1/2x1/4	21.03	10.26	177.3 K=1.00	1.6900	-8.92	15.38	0.580 <sup>1</sup> ✓
T10	20 - 0	L3-1/2x3-1/2x1/4	11.18	10.51	117.9	1.6900	-10.51	34.26	0.307 <sup>1</sup> ✓

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Section No.	Elevation	Size	L	L <sub>u</sub>	Kl/r	A	P <sub>u</sub>	φP <sub>n</sub>	Ratio P <sub>u</sub> / φP <sub>n</sub>
	ft		ft	ft		in <sup>2</sup>	K	K	

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

### Redundant Horizontal (1) Design Data (Compression)

Section No.	Elevation	Size	L	L <sub>u</sub>	Kl/r	A	P <sub>u</sub>	φP <sub>n</sub>	Ratio P <sub>u</sub> / φP <sub>n</sub>
	ft		ft	ft		in <sup>2</sup>	K	K	
T7	80 - 60	L3x3x1/2	3.67	3.43	95.3 K=1.35	2.7500	-4.27	70.73	0.060 <sup>1</sup> ✓
T10	20 - 0	L3x3x1/2	5.13	4.77	109.0 K=1.11	2.7500	-5.87	62.04	0.095 <sup>1</sup> ✓

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

### Redundant Diagonal (1) Design Data (Compression)

Section No.	Elevation	Size	L	L <sub>u</sub>	Kl/r	A	P <sub>u</sub>	φP <sub>n</sub>	Ratio P <sub>u</sub> / φP <sub>n</sub>
	ft		ft	ft		in <sup>2</sup>	K	K	
T7	80 - 60	L3x3x1/2	3.95	3.70	98.0 K=1.29	2.7500	-2.89	69.12	0.042 <sup>1</sup> ✓
T10	20 - 0	L3x3x1/2	5.82	5.41	115.6 K=1.04	2.7500	-4.18	57.39	0.073 <sup>1</sup> ✓

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

### Tension Checks

### Leg Design Data (Tension)

Section No.	Elevation	Size	L	L <sub>u</sub>	Kl/r	A	P <sub>u</sub>	φP <sub>n</sub>	Ratio P <sub>u</sub> / φP <sub>n</sub>
	ft		ft	ft		in <sup>2</sup>	K	K	
T1	185 - 180	P2x.154	5.00	5.00	76.2	1.0745	2.05	48.35	0.042 <sup>1</sup> ✓
T2	180 - 160	P2.5x.203	20.00	5.00	63.3	1.7040	27.60	76.68	0.360 <sup>1</sup> ✓
T3	160 - 140	Sabre 2.875"x0.375"	20.03	5.01	67.2	2.9452	63.05	132.54	0.476 <sup>1</sup> ✓
T4	140 - 120	P3.5x.318 (4.00 OD)	20.03	2.43	22.3	3.6784	95.12	165.53	0.575 <sup>1</sup> ✓

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Section No.	Elevation	Size	L	L <sub>u</sub>	Kl/r	A	P <sub>u</sub>	φP <sub>n</sub>	Ratio $\frac{P_u}{\phi P_n}$
	ft		ft	ft		in <sup>2</sup>	K	K	
T7	80 - 60	L3x3x3/8	14.67	10.65	140.0	2.1100	3.40	68.36	0.050 <sup>1</sup>
T10	20 - 0	L3 1/2x3 1/2x1/2	19.50	14.09	159.5	3.2500	4.77	105.30	0.045 <sup>1</sup>

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

### Secondary Horizontal Design Data (Tension)

Section No.	Elevation	Size	L	L <sub>u</sub>	Kl/r	A	P <sub>u</sub>	φP <sub>n</sub>	Ratio $\frac{P_u}{\phi P_n}$
	ft		ft	ft		in <sup>2</sup>	K	K	
T4	140 - 120	L2x2x1/4	8.74	4.20	165.7	0.9380	1.88	30.39	0.062 <sup>1</sup>
T5	120 - 100	L2 1/2x2 1/2x3/8	10.66	5.10	162.4	1.7300	2.39	56.05	0.043 <sup>1</sup>
T8	60 - 40	L3x3x7/16	16.48	8.03	213.1	2.4300	3.85	78.73	0.049 <sup>1</sup>
T9	40 - 20	L3x3x1/2	17.49	8.38	224.1	2.7500	4.30	89.10	0.048 <sup>1</sup>

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

### Top Girt Design Data (Tension)

Section No.	Elevation	Size	L	L <sub>u</sub>	Kl/r	A	P <sub>u</sub>	φP <sub>n</sub>	Ratio $\frac{P_u}{\phi P_n}$
	ft		ft	ft		in <sup>2</sup>	K	K	
T1	185 - 180	L2x2x1/8	5.00	4.56	92.0	0.2930	0.60	12.74	0.047 <sup>1</sup>
T2	180 - 160	L2x2x1/8	5.00	4.52	91.2	0.2930	0.57	12.74	0.045 <sup>1</sup>
T3	160 - 140	L2x2x1/8	5.00	4.52	91.2	0.2930	1.28	12.74	0.100 <sup>1</sup>

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

### Redundant Horizontal (1) Design Data (Tension)

Section No.	Elevation	Size	L	L <sub>u</sub>	Kl/r	A	P <sub>u</sub>	φP <sub>n</sub>	Ratio $\frac{P_u}{\phi P_n}$
	ft		ft	ft		in <sup>2</sup>	K	K	
T7	80 - 60	L3x3x1/2	3.50	3.27	43.7	2.7500	4.85	89.10	0.054 <sup>1</sup>

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Section No.	Elevation ft	Component Type	Size	Critical Element	P K	$\phi P_{allow}$ K	% Capacity	Pass Fail
T8	60 - 40	Diagonal	L3x3x1/4	288	-7.22	10.97	65.8	Pass
T9	40 - 20	Diagonal	L3-1/2x3-1/2x1/4	309	-8.92	15.38	58.0	Pass
							60.9 (b)	
T10	20 - 0	Diagonal	L3-1/2x3-1/2x1/4	385	-10.51	34.26	30.7	Pass
							70.0 (b)	
T7	80 - 60	Horizontal	L3x3x3/8	180	-3.40	17.33	19.6	Pass
T10	20 - 0	Horizontal	L3 1/2x3 1/2x1/2	342	-4.77	18.55	25.7	Pass
T4	140 - 120	Secondary Horizontal	L2x2x1/4	84	-1.88	16.66	11.3	Pass
T5	120 - 100	Secondary Horizontal	L2 1/2x2 1/2x3/8	123	-2.39	32.03	7.5	Pass
T8	60 - 40	Secondary Horizontal	L3x3x7/16	294	-3.85	29.26	13.2	Pass
T9	40 - 20	Secondary Horizontal	L3x3x1/2	315	-4.30	27.99	15.4	Pass
T1	185 - 180	Top Girt	L2x2x1/8	5	-0.44	7.31	6.0	Pass
							13.3 (b)	
T2	180 - 160	Top Girt	L2x2x1/8	18	-0.57	7.44	7.7	Pass
							12.6 (b)	
T3	160 - 140	Top Girt	L2x2x1/8	48	-1.28	7.44	17.1	Pass
							28.0 (b)	
T7	80 - 60	Redund Horz 1 Bracing	L3x3x1/2	203	-4.27	70.73	6.0	Pass
T10	20 - 0	Redund Horz 1 Bracing	L3x3x1/2	365	-5.87	62.04	9.5	Pass
T7	80 - 60	Redund Diag 1 Bracing	L3x3x1/2	243	-2.89	69.12	4.2	Pass
T10	20 - 0	Redund Diag 1 Bracing	L3x3x1/2	366	-4.18	57.39	7.3	Pass
							<b>Summary</b>	
							Leg (T8)	77.9 Pass
							Diagonal (T2)	90.9 Pass
							Horizontal (T10)	25.7 Pass
							Secondary Horizontal (T9)	15.4 Pass
							Top Girt (T3)	28.0 Pass
							Redund Horz 1 Bracing (T10)	9.5 Pass
							Redund Diag 1 Bracing (T10)	7.3 Pass
							Bolt Checks	90.9 Pass
							<b>RATING =</b>	<b>90.9 Pass</b>



Centerline Engineering Services, PA  
750 W Center St, Suite 301  
West Bridgewater, MA 02379  
Tel: (781)-713-4725

Job: 23CLVZ-0005  
Project: Weston North CT  
Client: Verizon Wireless

Engineer: TV  
Date: 09/15/2023  
Sheet: 1 of 1

### SST Unit Base Analysis Summary (TIA-H)

#### Analysis Reactions and Tower Information

Global Moment, M:	4795.02	ft-kips
Global Axial, P:	59.35	kips
Global Shear, V:	44.86	kips
Leg Compression, $P_{comp}$ :	283.44	kips
Leg Comp. Shear, $V_{u_{comp}}$ :	29.84	kips
Leg Uplift, $P_{uplift}$ :	237.29	kips
Leg Uplift Shear, $V_{u_{uplift}}$ :	25.01	kips
Tower Height, H:	185	ft
Base Face Width: BW:	21	ft
BP Dist. Above Fdn, $bp_{dist}$ :	2	in

#### Soil Properties

Total Soil Unit Weight, $\gamma$ :	120	pcf
Ultimate Gross Bearing, $Q_{ult}$ :	12	ksf
Cohesion, $C_u$ :	0	ksf
Friction Angle, $\phi$ :	32	degrees
SPT Blow Count, $N_{blows}$ :	0	
Base Friction, $\mu$ :	0.45	
Neglected Depth, N:	0	ft
Foundation Bearing on Rock?:	No	
Groundwater Depth, $D_{gw}$ :	N/A	ft

#### Pier Properties

Pier Shape:	Circular	
Pier Diameter, $d_{pier}$ :	3.5	ft
Ext. Above Grade, E:	0	ft
Pier Rebar Size, $R_{spier}$ :	7	
Pier Rebar Quantity, $R_{qpier}$ :	14	
Pier Tie Size, $T_{spier}$ :	4	
Pier Tie Quantity, $T_{qpier}$ :	7	
Pier Clear Cover, $cc_{pier}$ :	3	in

#### Pad Properties:

Depth, D:	6.5	ft
Pad Width, W:	30.5	ft
Pad Thickness, T:	1.5	ft
Pad Rebar Size (Bottom), $R_{spad}$ :	10	
Pad Rebar Qnty (Bottom), $R_{qpad}$ :	29	
Pad Clear Cover, $cc_{pad}$ :	3	in

#### Material Properties

Rebar Strength, $F_y$ :	60	ksi
Concrete Strength, $f'_c$ :	4	ksi
Dry Concrete Density, $\delta_c$ :	150	pcf

### Foundation Analysis Results

#### Soil Capacity Results

	Capacity	Demand	Rating
Lateral (Sliding) (kips):	365.0	44.9	11.7%
Bearing Pressure (ksf):	9.0	1.8	19.1%
Overturning (kip*ft):	11,622.4	5,094.1	43.8%

43.8%

Good

#### Structural Capacity Results

	Capacity	Demand	Rating
Pier Flexure (Comp.) (kip*ft):	947.9	149.2	15.0%
Pier Flexure (Tension) (kip*ft):	362.9	125.1	32.8%
Pier Compression (kip):	5,468.7	292.1	5.1%
Pad Flexure (kip*ft):	2,023.1	953.8	44.9%
Pad Shear - 1-way (kips):	454.7	186.3	39.0%
Pad Shear - 2-way (ksi):	0.2	0.1	67.2%

67.2%

Good





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

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## Antenna Mount Analysis Report and PMI Requirements

### Mount ReAnalysis

SMART Tool Project #: 10207127  
Colliers Engineering & Design CT. P.C. Project #: 23777147

July 17, 2023

#### Site Information

Site ID: 5000381704-VZW / WESTON NORTH CT  
Site Name: WESTON NORTH CT  
Carrier Name: Verizon Wireless  
Address: 237 Godfrey Road  
Weston, Connecticut 06883  
Fairfield County  
Latitude: 41.241997°  
Longitude: -73.364311°

#### Structure Information

Tower Type: 185-Ft Self Support  
Mount Type: 12.50-Ft Sector Frame

FUZE ID # 17123714

### Analysis Results

Sector Frame: 54.4% 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](mailto:pmisupport@colliersengineering.com)

Report Prepared By: Selene Chen



07/17/2023



### **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
162.00	162.00	6	JMA Wireless	MX06FIT665-02	Retained
		1	RFS	DB-C1-12C-24AB-0Z	
		3	Samsung	RF4439d-25A	
		3	Samsung	RF4440d-13A	
		3	Samsung	MT6407-77A	
		2	KAelus	KA-6030	Added

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

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

### **Standard Conditions:**

1. All engineering services are performed on the basis that the information provided to Colliers Engineering & Design 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.

### **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.

Contractor shall verify previous project by Maser Consulting Connecticut dated August 24, 2022 have been installed prior to installation of equipment. **Escalate any discrepancies to EOR immediately as it may render the results of this analysis invalid and require additional modifications.**

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 Manufacturer Drawings (for reference only)
4. Analysis Calculations

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

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

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

OR

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

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

**Issue:**

Contractor shall verify previous project by Maser Consulting Connecticut dated August 24, 2022 have been installed prior to installation of equipment. **Escalate any discrepancies to EOR immediately as it may render the results of this analysis invalid and require additional modifications.**

**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.

Sector: A

7/17/2023

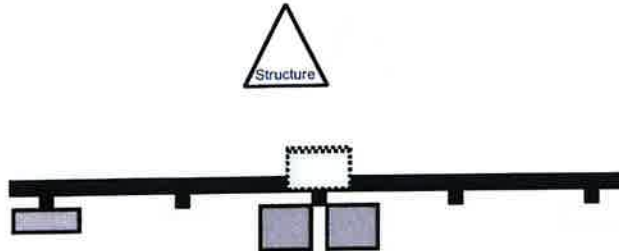
Structure Type: Self Support

10207127

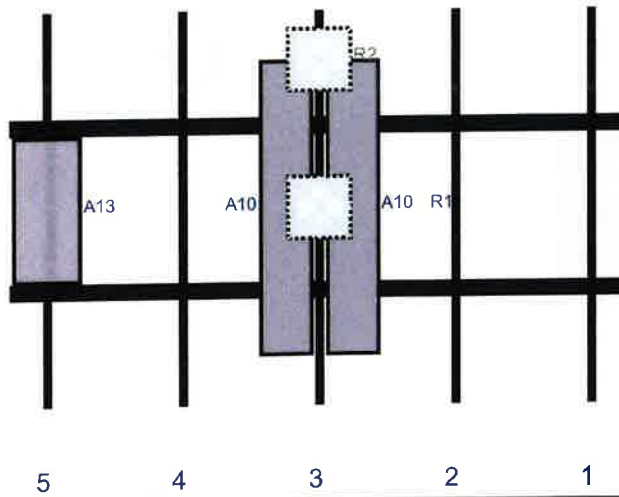
Mount Elev: 162.00

Page: 1

Plan View



Front View - Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A10	MX06FIT665-02	71.3	12.2	75	3	a	Front	48	-8	Retained	
A10	MX06FIT665-02	71.3	12.2	75	3	b	Front	48	8	Retained	
R1	RF4439d-25A	15	15	75	3	a	Behind	48	0	Retained	
R2	RF4440d-13A	15	15	75	3	a	Behind	12	0	Retained	
A13	MT6407-77A	35.1	16.1	9	5	a	Front	48	0	Retained	
OVP	DB-C1-12C-24AB-0Z	29.5	16.5		Member					Retained	

Structure: 5000381704-VZW - WESTON NORTH CT

Sector: C

7/17/2023

Structure Type: Self Support

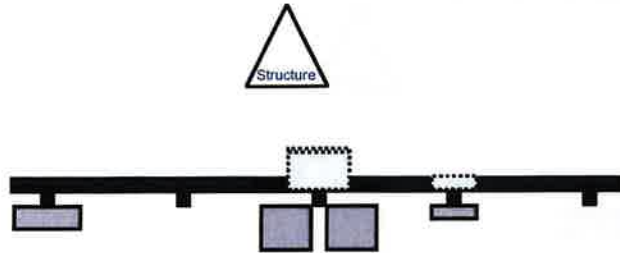
10207127



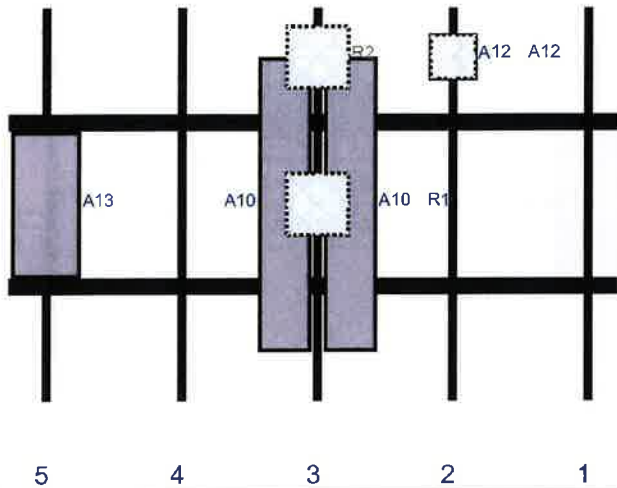
Mount Elev: 162.00

Page: 3

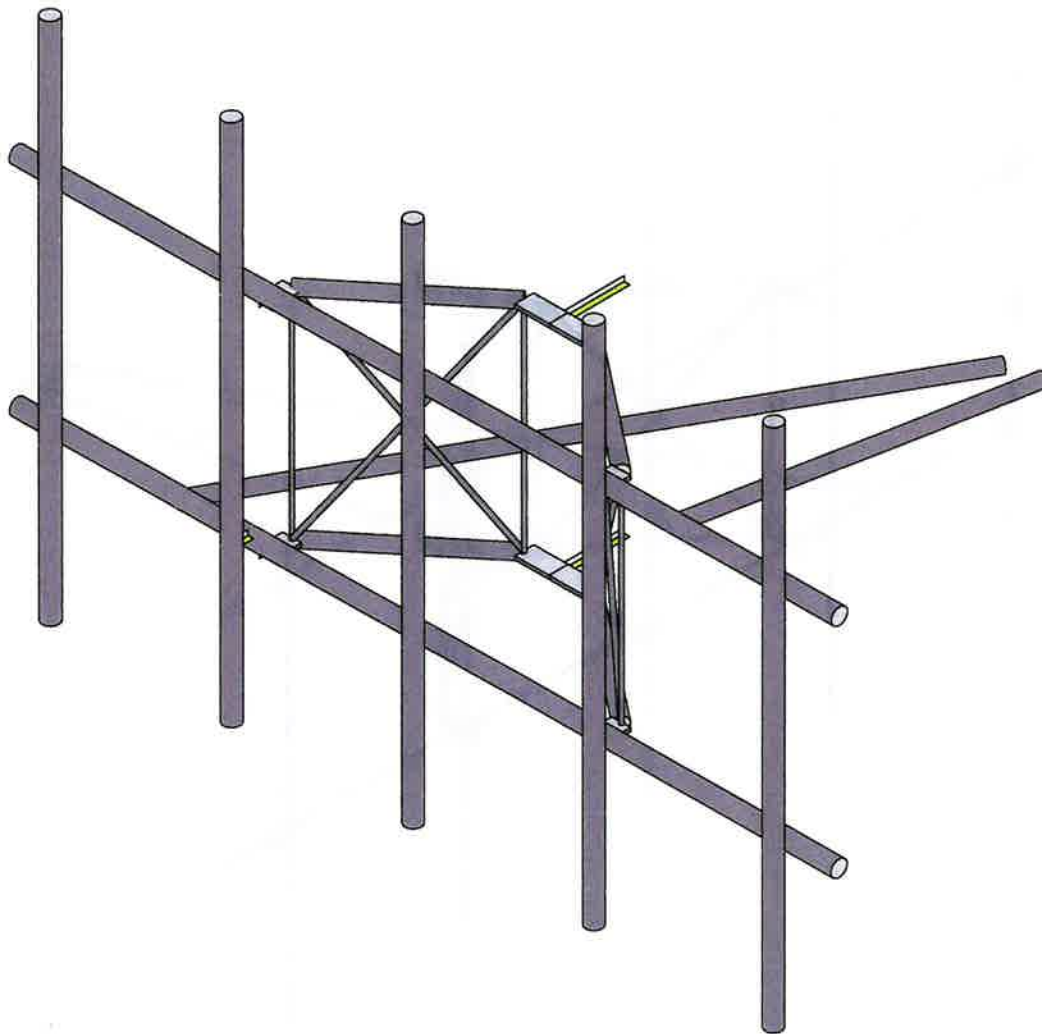
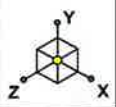
Plan View



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
A12	KA-6030	10.6	10.9	108	2	a	Front	12	0	Added	
A12	KA-6030	10.6	10.9	108	2	b	Behind	12	0	Added	
A10	MX06FIT665-02	71.3	12.2	75	3	a	Front	48	-8	Retained	
A10	MX06FIT665-02	71.3	12.2	75	3	b	Front	48	8	Retained	
R1	RF4439d-25A	15	15	75	3	a	Behind	48	0	Retained	
R2	RF4440d-13A	15	15	75	3	a	Behind	12	0	Retained	
A13	MT6407-77A	35.1	16.1	9	5	a	Front	48	0	Retained	

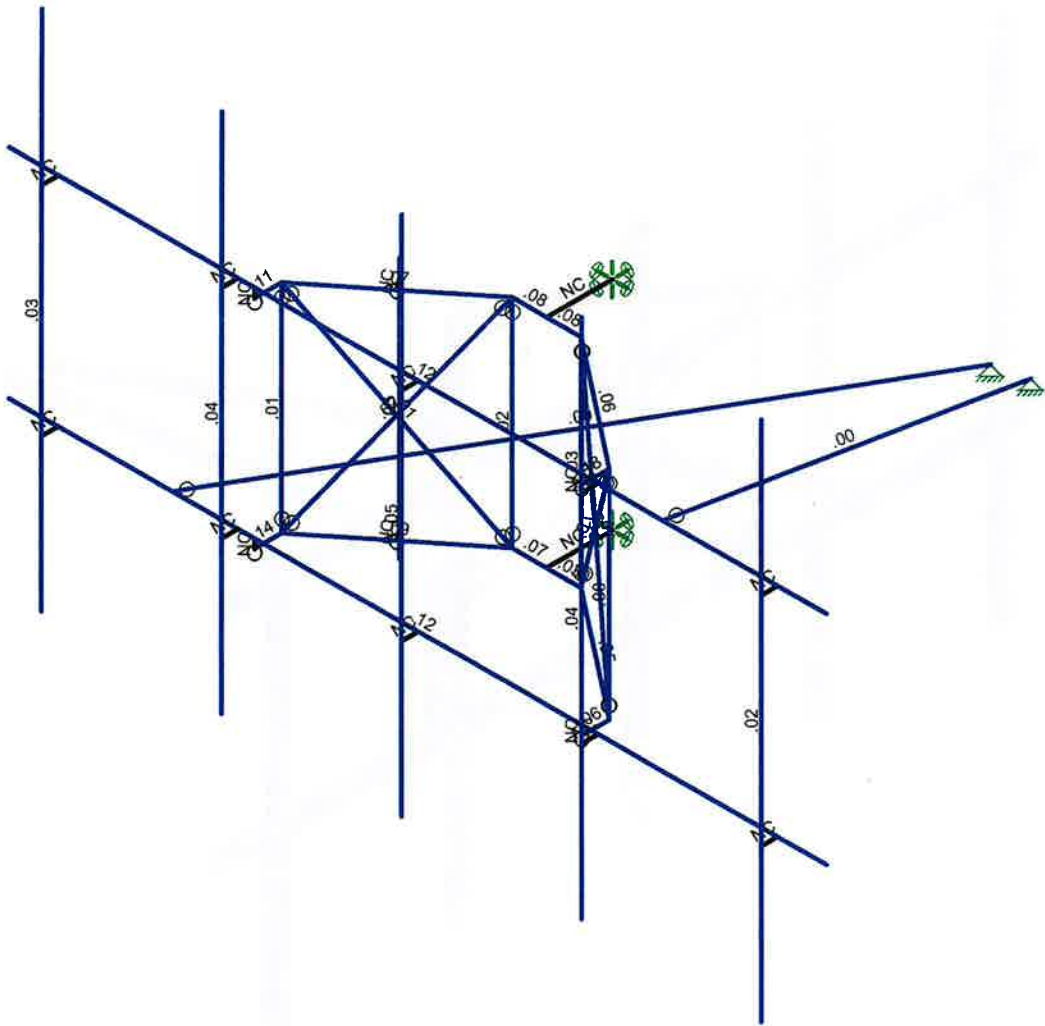
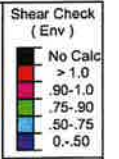
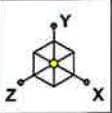


Envelope Only Solution

SK - 1

July 17, 2023 at 11:27 AM

5000381704-VZW\_MT\_LOT\_C\_H....



Member Shear Checks Displayed (Enveloped)  
Envelope Only Solution

SK - 3

July 17, 2023 at 11:27 AM

5000381704-VZW\_MT\_LOT\_C\_H....



### **Basic Load Cases (Continued)**

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface...
57	Structure Wi (120 Deg)	None						60	
58	Structure Wi (150 Deg)	None						60	
59	Structure Wi (180 Deg)	None						60	
60	Structure Wi (210 Deg)	None						60	
61	Structure Wi (240 Deg)	None						60	
62	Structure Wi (270 Deg)	None						60	
63	Structure Wi (300 Deg)	None						60	
64	Structure Wi (330 Deg)	None						60	
65	Structure Wm (0 Deg)	None						60	
66	Structure Wm (30 Deg)	None						60	
67	Structure Wm (60 Deg)	None						60	
68	Structure Wm (90 Deg)	None						60	
69	Structure Wm (120 Deg)	None						60	
70	Structure Wm (150 Deg)	None						60	
71	Structure Wm (180 Deg)	None						60	
72	Structure Wm (210 Deg)	None						60	
73	Structure Wm (240 Deg)	None						60	
74	Structure Wm (270 Deg)	None						60	
75	Structure Wm (300 Deg)	None						60	
76	Structure Wm (330 Deg)	None						60	
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		-0.05					
85	Structure Eh (0 Deg)	ELZ			-0.124				
86	Structure Eh (90 Deg)	ELX	0.124						

### **Load Combinations**

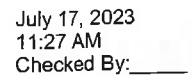
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1	1.2D+1.0Wo (0 Deg)	Yes	Y		1	1.2	39	1.2	3	1	41	1								
2	1.2D+1.0Wo (30 Deg)	Yes	Y		1	1.2	39	1.2	4	1	42	1								
3	1.2D+1.0Wo (60 Deg)	Yes	Y		1	1.2	39	1.2	5	1	43	1								
4	1.2D+1.0Wo (90 Deg)	Yes	Y		1	1.2	39	1.2	6	1	44	1								
5	1.2D+1.0Wo (120 Deg)	Yes	Y		1	1.2	39	1.2	7	1	45	1								
6	1.2D+1.0Wo (150 Deg)	Yes	Y		1	1.2	39	1.2	8	1	46	1								
7	1.2D+1.0Wo (180 Deg)	Yes	Y		1	1.2	39	1.2	9	1	47	1								
8	1.2D+1.0Wo (210 Deg)	Yes	Y		1	1.2	39	1.2	10	1	48	1								
9	1.2D+1.0Wo (240 Deg)	Yes	Y		1	1.2	39	1.2	11	1	49	1								
10	1.2D+1.0Wo (270 Deg)	Yes	Y		1	1.2	39	1.2	12	1	50	1								
11	1.2D+1.0Wo (300 Deg)	Yes	Y		1	1.2	39	1.2	13	1	51	1								
12	1.2D+1.0Wo (330 Deg)	Yes	Y		1	1.2	39	1.2	14	1	52	1								
13	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1				
14	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1				
15	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1				
16	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1				
17	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1				
18	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1				
19	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1				
20	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1				
21	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1				
22	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1				



### Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	3.416667	0.145833	8.083333	0	
2	N2	-9.083333	0.145833	8.083333	0	
3	N3	3.416667	3.479167	8.083333	0	
4	N4	-9.083333	3.479167	8.083333	0	
5	N5	-8.333333	0.145833	8.083333	0	
6	N6	-8.333333	3.479167	8.083333	0	
7	N7	-5.583333	0.145833	8.083333	0	
8	N8	-5.583333	3.479167	8.083333	0	
9	N9	-0.083333	0.145833	8.083333	0	
10	N10	-0.083333	3.479167	8.083333	0	
11	N11	2.666667	0.145833	8.083333	0	
12	N12	2.666667	3.479167	8.083333	0	
13	N13	-8.333333	0.145833	8.333333	0	
14	N14	-8.333333	3.479167	8.333333	0	
15	N15	-5.583333	0.145833	8.333333	0	
16	N16	-5.583333	3.479167	8.333333	0	
17	N17	-0.083333	0.145833	8.333333	0	
18	N18	-0.083333	3.479167	8.333333	0	
19	N19	2.666667	0.145833	8.333333	0	
20	N20	2.666667	3.479167	8.333333	0	
21	N21	-5.333333	0	8.083333	0	
22	N22	-5.333333	3.333333	8.083333	0	
23	N23	-0.333333	0	8.083333	0	
24	N24	-0.333333	3.333333	8.083333	0	
25	N25	-5.333333	0	7.661458	0	
26	N26	-5.333333	3.333333	7.661458	0	
27	N27	-0.333333	0	7.661458	0	
28	N28	-0.333333	3.333333	7.661458	0	
29	N29	-2.833333	0	6.119792	0	
30	N30	-2.833333	3.333333	6.119792	0	
31	N31	-3.364583	0	6.119792	0	
32	N32	-3.364583	3.333333	6.119792	0	
33	N33	-2.302083	0	6.119792	0	
34	N34	-2.302083	3.333333	6.119792	0	
35	N35	-2.833333	0	5.119792	0	
36	N36	-2.833333	3.333333	5.119792	0	
37	N39	-8.333333	5.8125	8.333333	0	
38	N40	-5.583333	5.8125	8.333333	0	
39	N41	-0.083333	5.8125	8.333333	0	
40	N42	2.666667	5.8125	8.333333	0	
41	N43	-8.333333	-2.1875	8.333333	0	
42	N44	-5.583333	-2.1875	8.333333	0	
43	N45	-0.083333	-2.1875	8.333333	0	
44	N46	2.666667	-2.1875	8.333333	0	
45	N58	-5.333333	3.333333	7.708333	0	
46	N76	-2.927083	0	6.119792	0	
47	N77	-3.229167	0	6.119792	0	
48	N78	-2.739583	0	6.119792	0	
49	N79	-2.4375	0	6.119792	0	
50	N80	-2.927083	3.333333	6.119792	0	
51	N81	-3.229167	3.333333	6.119792	0	
52	N82	-2.739583	3.333333	6.119792	0	
53	N83	-2.4375	3.333333	6.119792	0	
54	N58A	-2.833333	3.479167	8.083333	0	
55	N59	-5.333333	0.145833	8.083333	0	
56	N60	-5.333333	3.479167	8.083333	0	





	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
11	M13	N22	N26		90	Standoff Plate	Beam	BAR	Q235	Typical
12	M14	N21	N25		90	Standoff Plate	Beam	BAR	Q235	Typical
13	M15	N23	N27		90	Standoff Plate	Beam	BAR	Q235	Typical
14	M16	N24	N28		90	Standoff Plate	Beam	BAR	Q235	Typical
15	M17	N26	N32			Standoff Horiz...	Beam	Pipe	Q235	Typical
16	M18	N25	N31			Standoff Horiz...	Beam	Pipe	Q235	Typical
17	M19	N27	N33			Standoff Horiz...	Beam	Pipe	Q235	Typical
18	M20	N28	N34			Standoff Horiz...	Beam	Pipe	Q235	Typical
19	M21	N32	N30		90	Standoff Plate	Beam	BAR	Q235	Typical
20	M22	N34	N30		90	Standoff Plate	Beam	BAR	Q235	Typical
21	M23	N31	N29		90	Standoff Plate	Beam	BAR	Q235	Typical
22	M24	N33	N29		90	Standoff Plate	Beam	BAR	Q235	Typical
23	M25	N31	N26			Standoff Diago..	Beam	BAR	Q235	Typical
24	M26	N32	N25			Standoff Diago..	Beam	BAR	Q235	Typical
25	M27	N33	N28			Standoff Diago..	Beam	BAR	Q235	Typical
26	M28	N27	N34			Standoff Diago..	Beam	BAR	Q235	Typical
27	M29	N29	N35			RIGID	None	None	RIGID	Typical
28	M30	N30	N36			RIGID	None	None	RIGID	Typical
29	MP5A	N39	N43			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
30	MP4A	N40	N44			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
31	MP2A	N41	N45			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
32	MP1A	N42	N46			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
33	M44	N25	N26			Standoff Vertical	Beam	BAR	Q235	Typical
34	M45	N31	N32			Standoff Vertical	Beam	BAR	Q235	Typical
35	M46	N33	N34			Standoff Vertical	Beam	BAR	Q235	Typical
36	M47	N27	N28			Standoff Vertical	Beam	BAR	Q235	Typical
37	M47B	N22	N60			RIGID	None	None	RIGID	Typical
38	M48A	N21	N59			RIGID	None	None	RIGID	Typical
39	M49A	N24	N62			RIGID	None	None	RIGID	Typical
40	M50A	N23	N61			RIGID	None	None	RIGID	Typical
41	M51A	N30	N36			RIGID	None	None	RIGID	Typical
42	M52A	N29	N35			RIGID	None	None	RIGID	Typical
43	M43	N59A	N69			Tieback	Beam	Pipe	Q235	Typical
44	M44A	N60A	N68A			Tieback	Beam	Pipe	Q235	Typical
45	M45A	N58A	N66			RIGID	None	None	RIGID	Typical
46	M46A	N63	N65			RIGID	None	None	RIGID	Typical
47	MP3A	N67	N68			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
48	M48	N69A	N68B			RIGID	None	None	RIGID	Typical
49	M49	N71	N70			RIGID	None	None	RIGID	Typical
50	OVP	N72	N73			OVP PIPE	Column	Pipe	A53 Gr. B	Typical

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes				None
2	M2						Yes				None
3	M3						Yes	** NA **			None
4	M4						Yes	** NA **			None
5	M5						Yes	** NA **			None
6	M6						Yes	** NA **			None
7	M9						Yes	** NA **			None
8	M10						Yes	** NA **			None
9	M11						Yes	** NA **			None
10	M12						Yes	Default			None
11	M13						Yes	Default			None
12	M14						Yes	Default			None

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	OVP	Mz	0	.5
16	OVP	Y	-16	.5
17	OVP	Mv	0	.5
18	OVP	Mz	0	.5
19	MP3A	Y	-37.35	4
20	MP3A	Mv	.025	4
21	MP3A	Mz	0	4
22	MP3A	Y	-37.35	4
23	MP3A	Mv	.025	4
24	MP3A	Mz	0	4
25	MP3A	Y	-70.3	1
26	MP3A	Mv	.047	1
27	MP3A	Mz	0	1
28	MP5A	Y	-43.55	3
29	MP5A	Mv	-.026	3
30	MP5A	Mz	.012	3
31	MP5A	Y	-43.55	5
32	MP5A	Mv	-.026	5
33	MP5A	Mz	.012	5
34	MP2A	Y	-17.6	1
35	MP2A	Mv	-.009	1
36	MP2A	Mz	0	1
37	MP2A	Y	-17.6	1
38	MP2A	Mv	.009	1
39	MP2A	Mz	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	Y	-73.676	2
2	MP3A	Mv	-.049	2
3	MP3A	Mz	-.049	2
4	MP3A	Y	-73.676	6
5	MP3A	Mv	-.049	6
6	MP3A	Mz	-.049	6
7	MP3A	Y	-73.676	2
8	MP3A	Mv	-.049	2
9	MP3A	Mz	.049	2
10	MP3A	Y	-73.676	6
11	MP3A	Mv	-.049	6
12	MP3A	Mz	.049	6
13	OVP	Y	-44.713	.5
14	OVP	Mv	0	.5
15	OVP	Mz	0	.5
16	OVP	Y	-44.713	.5
17	OVP	Mv	0	.5
18	OVP	Mz	0	.5
19	MP3A	Y	-22.849	4
20	MP3A	Mv	.015	4
21	MP3A	Mz	0	4
22	MP3A	Y	-22.849	4
23	MP3A	Mv	.015	4
24	MP3A	Mz	0	4
25	MP3A	Y	-43.52	1
26	MP3A	Mv	.029	1
27	MP3A	Mz	0	1
28	MP5A	Y	-36.237	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	23.874	2
2	MP3A	Z	-41.35	2
3	MP3A	Mx	.012	2
4	MP3A	X	23.874	6
5	MP3A	Z	-41.35	6
6	MP3A	Mx	.012	6
7	MP3A	X	23.874	2
8	MP3A	Z	-41.35	2
9	MP3A	Mx	-.043	2
10	MP3A	X	23.874	6
11	MP3A	Z	-41.35	6
12	MP3A	Mx	-.043	6
13	OVP	X	28.227	.5
14	OVP	Z	-48.891	.5
15	OVP	Mx	0	.5
16	OVP	X	28.227	.5
17	OVP	Z	-48.891	.5
18	OVP	Mx	0	.5
19	MP3A	X	12.508	4
20	MP3A	Z	-21.665	4
21	MP3A	Mx	.008	4
22	MP3A	X	12.508	4
23	MP3A	Z	-21.665	4
24	MP3A	Mx	.008	4
25	MP3A	X	24.577	1
26	MP3A	Z	-42.569	1
27	MP3A	Mx	.016	1
28	MP5A	X	19.306	3
29	MP5A	Z	-33.438	3
30	MP5A	Mx	-.021	3
31	MP5A	X	19.306	5
32	MP5A	Z	-33.438	5
33	MP5A	Mx	-.021	5
34	MP2A	X	13.942	1
35	MP2A	Z	-24.149	1
36	MP2A	Mx	-.007	1
37	MP2A	X	13.942	1
38	MP2A	Z	-24.149	1
39	MP2A	Mx	.007	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	46.376	2
2	MP3A	Z	-26.775	2
3	MP3A	Mx	-.013	2
4	MP3A	X	46.376	6
5	MP3A	Z	-26.775	6
6	MP3A	Mx	-.013	6
7	MP3A	X	46.376	2
8	MP3A	Z	-26.775	2
9	MP3A	Mx	-.049	2
10	MP3A	X	46.376	6
11	MP3A	Z	-26.775	6
12	MP3A	Mx	-.049	6
13	OVP	X	55.778	.5
14	OVP	Z	-32.204	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
29	MP5A	Z	0	3
30	MP5A	Mx	-.019	3
31	MP5A	X	31.814	5
32	MP5A	Z	0	5
33	MP5A	Mx	-.019	5
34	MP2A	X	10.241	1
35	MP2A	Z	0	1
36	MP2A	Mx	-.005	1
37	MP2A	X	10.241	1
38	MP2A	Z	0	1
39	MP2A	Mx	.005	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	46.376	2
2	MP3A	Z	26.775	2
3	MP3A	Mx	-.049	2
4	MP3A	X	46.376	6
5	MP3A	Z	26.775	6
6	MP3A	Mx	-.049	6
7	MP3A	X	46.376	2
8	MP3A	Z	26.775	2
9	MP3A	Mx	-.013	2
10	MP3A	X	46.376	6
11	MP3A	Z	26.775	6
12	MP3A	Mx	-.013	6
13	OVP	X	60.12	.5
14	OVP	Z	34.71	.5
15	OVP	Mx	0	.5
16	OVP	X	60.12	.5
17	OVP	Z	34.71	.5
18	OVP	Mx	0	.5
19	MP3A	X	17.781	4
20	MP3A	Z	10.266	4
21	MP3A	Mx	.012	4
22	MP3A	X	17.781	4
23	MP3A	Z	10.266	4
24	MP3A	Mx	.012	4
25	MP3A	X	33.278	1
26	MP3A	Z	19.213	1
27	MP3A	Mx	.022	1
28	MP5A	X	46.825	3
29	MP5A	Z	27.035	3
30	MP5A	Mx	-.021	3
31	MP5A	X	46.825	5
32	MP5A	Z	27.035	5
33	MP5A	Mx	-.021	5
34	MP2A	X	13.963	1
35	MP2A	Z	8.061	1
36	MP2A	Mx	-.007	1
37	MP2A	X	13.963	1
38	MP2A	Z	8.061	1
39	MP2A	Mx	.007	1

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

Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
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### Member Point Loads (BLC 9 : Antenna Wo (180 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	OVP	Mx	0	.5
16	OVP	X	0	.5
17	OVP	Z	54.984	.5
18	OVP	Mx	0	.5
19	MP3A	X	0	4
20	MP3A	Z	27.259	4
21	MP3A	Mx	0	4
22	MP3A	X	0	4
23	MP3A	Z	27.259	4
24	MP3A	Mx	0	4
25	MP3A	X	0	1
26	MP3A	Z	54.518	1
27	MP3A	Mx	0	1
28	MP5A	X	0	3
29	MP5A	Z	60.866	3
30	MP5A	Mx	.017	3
31	MP5A	X	0	5
32	MP5A	Z	60.866	5
33	MP5A	Mx	.017	5
34	MP2A	X	0	1
35	MP2A	Z	33.766	1
36	MP2A	Mx	0	1
37	MP2A	X	0	1
38	MP2A	Z	33.766	1
39	MP2A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-23.874	2
2	MP3A	Z	41.35	2
3	MP3A	Mx	-.012	2
4	MP3A	X	-23.874	6
5	MP3A	Z	41.35	6
6	MP3A	Mx	-.012	6
7	MP3A	X	-23.874	2
8	MP3A	Z	41.35	2
9	MP3A	Mx	.043	2
10	MP3A	X	-23.874	6
11	MP3A	Z	41.35	6
12	MP3A	Mx	.043	6
13	OVP	X	-28.227	.5
14	OVP	Z	48.891	.5
15	OVP	Mx	0	.5
16	OVP	X	-28.227	.5
17	OVP	Z	48.891	.5
18	OVP	Mx	0	.5
19	MP3A	X	-12.508	4
20	MP3A	Z	21.665	4
21	MP3A	Mx	-.008	4
22	MP3A	X	-12.508	4
23	MP3A	Z	21.665	4
24	MP3A	Mx	-.008	4
25	MP3A	X	-24.577	1
26	MP3A	Z	42.569	1
27	MP3A	Mx	-.016	1
28	MP5A	X	-19.306	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-56.452	2
2	MP3A	Z	0	2
3	MP3A	Mx	.038	2
4	MP3A	X	-56.452	6
5	MP3A	Z	0	6
6	MP3A	Mx	.038	6
7	MP3A	X	-56.452	2
8	MP3A	Z	0	2
9	MP3A	Mx	.038	2
10	MP3A	X	-56.452	6
11	MP3A	Z	0	6
12	MP3A	Mx	.038	6
13	OVP	X	-70.89	.5
14	OVP	Z	0	.5
15	OVP	Mx	0	.5
16	OVP	X	-70.89	.5
17	OVP	Z	0	.5
18	OVP	Mx	0	.5
19	MP3A	X	-18.29	4
20	MP3A	Z	0	4
21	MP3A	Mx	-.012	4
22	MP3A	X	-18.29	4
23	MP3A	Z	0	4
24	MP3A	Mx	-.012	4
25	MP3A	X	-33.062	1
26	MP3A	Z	0	1
27	MP3A	Mx	-.022	1
28	MP5A	X	-31.814	3
29	MP5A	Z	0	3
30	MP5A	Mx	.019	3
31	MP5A	X	-31.814	5
32	MP5A	Z	0	5
33	MP5A	Mx	.019	5
34	MP2A	X	-10.241	1
35	MP2A	Z	0	1
36	MP2A	Mx	.005	1
37	MP2A	X	-10.241	1
38	MP2A	Z	0	1
39	MP2A	Mx	-.005	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-46.376	2
2	MP3A	Z	-26.775	2
3	MP3A	Mx	.049	2
4	MP3A	X	-46.376	6
5	MP3A	Z	-26.775	6
6	MP3A	Mx	.049	6
7	MP3A	X	-46.376	2
8	MP3A	Z	-26.775	2
9	MP3A	Mx	.013	2
10	MP3A	X	-46.376	6
11	MP3A	Z	-26.775	6
12	MP3A	Mx	.013	6
13	OVP	X	-60.12	.5
14	OVP	Z	-34.71	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
29	MP5A	Z	-59.405	3
30	MP5A	Mx	.004	3
31	MP5A	X	-34.298	5
32	MP5A	Z	-59.405	5
33	MP5A	Mx	.004	5
34	MP2A	X	-13.942	1
35	MP2A	Z	-24.149	1
36	MP2A	Mx	.007	1
37	MP2A	X	-13.942	1
38	MP2A	Z	-24.149	1
39	MP2A	Mx	-.007	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	0	2
2	MP3A	Z	-27.463	2
3	MP3A	Mx	.018	2
4	MP3A	X	0	6
5	MP3A	Z	-27.463	6
6	MP3A	Mx	.018	6
7	MP3A	X	0	2
8	MP3A	Z	-27.463	2
9	MP3A	Mx	-.018	2
10	MP3A	X	0	6
11	MP3A	Z	-27.463	6
12	MP3A	Mx	-.018	6
13	OVP	X	0	.5
14	OVP	Z	-11.096	.5
15	OVP	Mx	0	.5
16	OVP	X	0	.5
17	OVP	Z	-11.096	.5
18	OVP	Mx	0	.5
19	MP3A	X	0	4
20	MP3A	Z	-6.85	4
21	MP3A	Mx	0	4
22	MP3A	X	0	4
23	MP3A	Z	-6.85	4
24	MP3A	Mx	0	4
25	MP3A	X	0	1
26	MP3A	Z	-13.7	1
27	MP3A	Mx	0	1
28	MP5A	X	0	3
29	MP5A	Z	-14.578	3
30	MP5A	Mx	-.004	3
31	MP5A	X	0	5
32	MP5A	Z	-14.578	5
33	MP5A	Mx	-.004	5
34	MP2A	X	0	1
35	MP2A	Z	-7.539	1
36	MP2A	Mx	0	1
37	MP2A	X	0	1
38	MP2A	Z	-7.539	1
39	MP2A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
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**Member Point Loads (BLC 17 : Antenna Wi (60 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	OVP	Mx	0	.5
16	OVP	X	11.086	.5
17	OVP	Z	-6.401	.5
18	OVP	Mx	0	.5
19	MP3A	X	4.58	4
20	MP3A	Z	-2.644	4
21	MP3A	Mx	.003	4
22	MP3A	X	4.58	4
23	MP3A	Z	-2.644	4
24	MP3A	Mx	.003	4
25	MP3A	X	8.673	1
26	MP3A	Z	-5.007	1
27	MP3A	Mx	.006	1
28	MP5A	X	6.061	3
29	MP5A	Z	-3.499	3
30	MP5A	Mx	-.005	3
31	MP5A	X	6.061	5
32	MP5A	Z	-3.499	5
33	MP5A	Mx	-.005	5
34	MP2A	X	3.483	1
35	MP2A	Z	-2.011	1
36	MP2A	Mx	-.002	1
37	MP2A	X	3.483	1
38	MP2A	Z	-2.011	1
39	MP2A	Mx	.002	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	24.9	2
2	MP3A	Z	0	2
3	MP3A	Mx	-.017	2
4	MP3A	X	24.9	6
5	MP3A	Z	0	6
6	MP3A	Mx	-.017	6
7	MP3A	X	24.9	2
8	MP3A	Z	0	2
9	MP3A	Mx	-.017	2
10	MP3A	X	24.9	6
11	MP3A	Z	0	6
12	MP3A	Mx	-.017	6
13	OVP	X	13.974	.5
14	OVP	Z	0	.5
15	OVP	Mx	0	.5
16	OVP	X	13.974	.5
17	OVP	Z	0	.5
18	OVP	Mx	0	.5
19	MP3A	X	4.768	4
20	MP3A	Z	0	4
21	MP3A	Mx	.003	4
22	MP3A	X	4.768	4
23	MP3A	Z	0	4
24	MP3A	Mx	.003	4
25	MP3A	X	8.786	1
26	MP3A	Z	0	1
27	MP3A	Mx	.006	1
28	MP5A	X	8.591	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	13.411	2
2	MP3A	Z	23.229	2
3	MP3A	Mx	-.024	2
4	MP3A	X	13.411	6
5	MP3A	Z	23.229	6
6	MP3A	Mx	-.024	6
7	MP3A	X	13.411	2
8	MP3A	Z	23.229	2
9	MP3A	Mx	.007	2
10	MP3A	X	13.411	6
11	MP3A	Z	23.229	6
12	MP3A	Mx	.007	6
13	OVP	X	6.135	.5
14	OVP	Z	10.625	.5
15	OVP	Mx	0	.5
16	OVP	X	6.135	.5
17	OVP	Z	10.625	.5
18	OVP	Mx	0	.5
19	MP3A	X	3.165	4
20	MP3A	Z	5.482	4
21	MP3A	Mx	.002	4
22	MP3A	X	3.165	4
23	MP3A	Z	5.482	4
24	MP3A	Mx	.002	4
25	MP3A	X	6.236	1
26	MP3A	Z	10.801	1
27	MP3A	Mx	.004	1
28	MP5A	X	8.085	3
29	MP5A	Z	14.004	3
30	MP5A	Mx	-.000939	3
31	MP5A	X	8.085	5
32	MP5A	Z	14.004	5
33	MP5A	Mx	-.000939	5
34	MP2A	X	3.183	1
35	MP2A	Z	5.513	1
36	MP2A	Mx	-.002	1
37	MP2A	X	3.183	1
38	MP2A	Z	5.513	1
39	MP2A	Mx	.002	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	0	2
2	MP3A	Z	27.463	2
3	MP3A	Mx	-.018	2
4	MP3A	X	0	6
5	MP3A	Z	27.463	6
6	MP3A	Mx	-.018	6
7	MP3A	X	0	2
8	MP3A	Z	27.463	2
9	MP3A	Mx	.018	2
10	MP3A	X	0	6
11	MP3A	Z	27.463	6
12	MP3A	Mx	.018	6
13	OVP	X	0	.5
14	OVP	Z	11.096	.5



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

	Member Label	Direction	Magnitude[lb. k-ft]	Location[ft. %]
29	MP5A	Z	8.653	3
30	MP5A	Mx	.005	3
31	MP5A	X	-4.996	5
32	MP5A	Z	8.653	5
33	MP5A	Mx	.005	5
34	MP2A	X	-3.183	1
35	MP2A	Z	5.513	1
36	MP2A	Mx	.002	1
37	MP2A	X	-3.183	1
38	MP2A	Z	5.513	1
39	MP2A	Mx	-.002	1

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

	Member Label	Direction	Magnitude[lb. k-ft]	Location[ft. %]
1	MP3A	X	-22.119	2
2	MP3A	Z	12.77	2
3	MP3A	Mx	.006	2
4	MP3A	X	-22.119	6
5	MP3A	Z	12.77	6
6	MP3A	Mx	.006	6
7	MP3A	X	-22.119	2
8	MP3A	Z	12.77	2
9	MP3A	Mx	.023	2
10	MP3A	X	-22.119	6
11	MP3A	Z	12.77	6
12	MP3A	Mx	.023	6
13	OVP	X	-11.086	.5
14	OVP	Z	6.401	.5
15	OVP	Mx	0	.5
16	OVP	X	-11.086	.5
17	OVP	Z	6.401	.5
18	OVP	Mx	0	.5
19	MP3A	X	-4.58	4
20	MP3A	Z	2.644	4
21	MP3A	Mx	-.003	4
22	MP3A	X	-4.58	4
23	MP3A	Z	2.644	4
24	MP3A	Mx	-.003	4
25	MP3A	X	-8.673	1
26	MP3A	Z	5.007	1
27	MP3A	Mx	-.006	1
28	MP5A	X	-6.061	3
29	MP5A	Z	3.499	3
30	MP5A	Mx	.005	3
31	MP5A	X	-6.061	5
32	MP5A	Z	3.499	5
33	MP5A	Mx	.005	5
34	MP2A	X	-3.483	1
35	MP2A	Z	2.011	1
36	MP2A	Mx	.002	1
37	MP2A	X	-3.483	1
38	MP2A	Z	2.011	1
39	MP2A	Mx	-.002	1

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

Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
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**Member Point Loads (BLC 25 : Antenna Wi (300 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	OVP	Mx	0	.5
16	OVP	X	-11.872	.5
17	OVP	Z	-6.854	.5
18	OVP	Mx	0	.5
19	MP3A	X	-4.58	4
20	MP3A	Z	-2.644	4
21	MP3A	Mx	-.003	4
22	MP3A	X	-4.58	4
23	MP3A	Z	-2.644	4
24	MP3A	Mx	-.003	4
25	MP3A	X	-8.673	1
26	MP3A	Z	-5.007	1
27	MP3A	Mx	-.006	1
28	MP5A	X	-11.412	3
29	MP5A	Z	-6.589	3
30	MP5A	Mx	.005	3
31	MP5A	X	-11.412	5
32	MP5A	Z	-6.589	5
33	MP5A	Mx	.005	5
34	MP2A	X	-3.483	1
35	MP2A	Z	-2.011	1
36	MP2A	Mx	.002	1
37	MP2A	X	-3.483	1
38	MP2A	Z	-2.011	1
39	MP2A	Mx	-.002	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-13.411	2
2	MP3A	Z	-23.229	2
3	MP3A	Mx	.024	2
4	MP3A	X	-13.411	6
5	MP3A	Z	-23.229	6
6	MP3A	Mx	.024	6
7	MP3A	X	-13.411	2
8	MP3A	Z	-23.229	2
9	MP3A	Mx	-.007	2
10	MP3A	X	-13.411	6
11	MP3A	Z	-23.229	6
12	MP3A	Mx	-.007	6
13	OVP	X	-6.135	.5
14	OVP	Z	-10.625	.5
15	OVP	Mx	0	.5
16	OVP	X	-6.135	.5
17	OVP	Z	-10.625	.5
18	OVP	Mx	0	.5
19	MP3A	X	-3.165	4
20	MP3A	Z	-5.482	4
21	MP3A	Mx	-.002	4
22	MP3A	X	-3.165	4
23	MP3A	Z	-5.482	4
24	MP3A	Mx	-.002	4
25	MP3A	X	-6.236	1
26	MP3A	Z	-10.801	1
27	MP3A	Mx	-.004	1
28	MP5A	X	-8.085	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	1.492	2
2	MP3A	Z	-2.584	2
3	MP3A	Mx	.000728	2
4	MP3A	X	1.492	6
5	MP3A	Z	-2.584	6
6	MP3A	Mx	.000728	6
7	MP3A	X	1.492	2
8	MP3A	Z	-2.584	2
9	MP3A	Mx	-.003	2
10	MP3A	X	1.492	6
11	MP3A	Z	-2.584	6
12	MP3A	Mx	-.003	6
13	OVP	X	1.764	.5
14	OVP	Z	-3.056	.5
15	OVP	Mx	0	.5
16	OVP	X	1.764	.5
17	OVP	Z	-3.056	.5
18	OVP	Mx	0	.5
19	MP3A	X	.782	4
20	MP3A	Z	-1.354	4
21	MP3A	Mx	.000521	4
22	MP3A	X	.782	4
23	MP3A	Z	-1.354	4
24	MP3A	Mx	.000521	4
25	MP3A	X	1.536	1
26	MP3A	Z	-2.661	1
27	MP3A	Mx	.001	1
28	MP5A	X	1.207	3
29	MP5A	Z	-2.09	3
30	MP5A	Mx	-.001	3
31	MP5A	X	1.207	5
32	MP5A	Z	-2.09	5
33	MP5A	Mx	-.001	5
34	MP2A	X	.871	1
35	MP2A	Z	-1.509	1
36	MP2A	Mx	-.000436	1
37	MP2A	X	.871	1
38	MP2A	Z	-1.509	1
39	MP2A	Mx	.000436	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	2.899	2
2	MP3A	Z	-1.673	2
3	MP3A	Mx	-.000817	2
4	MP3A	X	2.899	6
5	MP3A	Z	-1.673	6
6	MP3A	Mx	-.000817	6
7	MP3A	X	2.899	2
8	MP3A	Z	-1.673	2
9	MP3A	Mx	-.003	2
10	MP3A	X	2.899	6
11	MP3A	Z	-1.673	6
12	MP3A	Mx	-.003	6
13	OVP	X	3.486	.5
14	OVP	Z	-2.013	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
29	MP5A	Z	0	3
30	MP5A	Mx	-.001	3
31	MP5A	X	1.988	5
32	MP5A	Z	0	5
33	MP5A	Mx	-.001	5
34	MP2A	X	.64	1
35	MP2A	Z	0	1
36	MP2A	Mx	-.00032	1
37	MP2A	X	.64	1
38	MP2A	Z	0	1
39	MP2A	Mx	.00032	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	2.899	2
2	MP3A	Z	1.673	2
3	MP3A	Mx	-.003	2
4	MP3A	X	2.899	6
5	MP3A	Z	1.673	6
6	MP3A	Mx	-.003	6
7	MP3A	X	2.899	2
8	MP3A	Z	1.673	2
9	MP3A	Mx	-.000817	2
10	MP3A	X	2.899	6
11	MP3A	Z	1.673	6
12	MP3A	Mx	-.000817	6
13	OVP	X	3.758	.5
14	OVP	Z	2.169	.5
15	OVP	Mx	0	.5
16	OVP	X	3.758	.5
17	OVP	Z	2.169	.5
18	OVP	Mx	0	.5
19	MP3A	X	1.111	4
20	MP3A	Z	.642	4
21	MP3A	Mx	.000741	4
22	MP3A	X	1.111	4
23	MP3A	Z	.642	4
24	MP3A	Mx	.000741	4
25	MP3A	X	2.08	1
26	MP3A	Z	1.201	1
27	MP3A	Mx	.001	1
28	MP5A	X	2.927	3
29	MP5A	Z	1.69	3
30	MP5A	Mx	-.001	3
31	MP5A	X	2.927	5
32	MP5A	Z	1.69	5
33	MP5A	Mx	-.001	5
34	MP2A	X	.873	1
35	MP2A	Z	.504	1
36	MP2A	Mx	-.000436	1
37	MP2A	X	.873	1
38	MP2A	Z	.504	1
39	MP2A	Mx	.000436	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
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**Member Point Loads (BLC 33 : Antenna Wm (180 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	OVP	Mx	0	.5
16	OVP	X	0	.5
17	OVP	Z	3.437	.5
18	OVP	Mx	0	.5
19	MP3A	X	0	4
20	MP3A	Z	1.704	4
21	MP3A	Mx	0	4
22	MP3A	X	0	4
23	MP3A	Z	1.704	4
24	MP3A	Mx	0	4
25	MP3A	X	0	1
26	MP3A	Z	3.407	1
27	MP3A	Mx	0	1
28	MP5A	X	0	3
29	MP5A	Z	3.804	3
30	MP5A	Mx	.001	3
31	MP5A	X	0	5
32	MP5A	Z	3.804	5
33	MP5A	Mx	.001	5
34	MP2A	X	0	1
35	MP2A	Z	2.11	1
36	MP2A	Mx	0	1
37	MP2A	X	0	1
38	MP2A	Z	2.11	1
39	MP2A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-1.492	2
2	MP3A	Z	2.584	2
3	MP3A	Mx	-.000728	2
4	MP3A	X	-1.492	6
5	MP3A	Z	2.584	6
6	MP3A	Mx	-.000728	6
7	MP3A	X	-1.492	2
8	MP3A	Z	2.584	2
9	MP3A	Mx	.003	2
10	MP3A	X	-1.492	6
11	MP3A	Z	2.584	6
12	MP3A	Mx	.003	6
13	OVP	X	-1.764	.5
14	OVP	Z	3.056	.5
15	OVP	Mx	0	.5
16	OVP	X	-1.764	.5
17	OVP	Z	3.056	.5
18	OVP	Mx	0	.5
19	MP3A	X	-.782	4
20	MP3A	Z	1.354	4
21	MP3A	Mx	-.000521	4
22	MP3A	X	-.782	4
23	MP3A	Z	1.354	4
24	MP3A	Mx	-.000521	4
25	MP3A	X	-1.536	1
26	MP3A	Z	2.661	1
27	MP3A	Mx	-.001	1
28	MP5A	X	-1.207	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-3.528	2
2	MP3A	Z	0	2
3	MP3A	Mx	.002	2
4	MP3A	X	-3.528	6
5	MP3A	Z	0	6
6	MP3A	Mx	.002	6
7	MP3A	X	-3.528	2
8	MP3A	Z	0	2
9	MP3A	Mx	.002	2
10	MP3A	X	-3.528	6
11	MP3A	Z	0	6
12	MP3A	Mx	.002	6
13	OVP	X	-4.431	.5
14	OVP	Z	0	.5
15	OVP	Mx	0	.5
16	OVP	X	-4.431	.5
17	OVP	Z	0	.5
18	OVP	Mx	0	.5
19	MP3A	X	-1.143	4
20	MP3A	Z	0	4
21	MP3A	Mx	-.000762	4
22	MP3A	X	-1.143	4
23	MP3A	Z	0	4
24	MP3A	Mx	-.000762	4
25	MP3A	X	-2.066	1
26	MP3A	Z	0	1
27	MP3A	Mx	-.001	1
28	MP5A	X	-1.988	3
29	MP5A	Z	0	3
30	MP5A	Mx	.001	3
31	MP5A	X	-1.988	5
32	MP5A	Z	0	5
33	MP5A	Mx	.001	5
34	MP2A	X	-.64	1
35	MP2A	Z	0	1
36	MP2A	Mx	.00032	1
37	MP2A	X	-.64	1
38	MP2A	Z	0	1
39	MP2A	Mx	-.00032	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-2.899	2
2	MP3A	Z	-1.673	2
3	MP3A	Mx	.003	2
4	MP3A	X	-2.899	6
5	MP3A	Z	-1.673	6
6	MP3A	Mx	.003	6
7	MP3A	X	-2.899	2
8	MP3A	Z	-1.673	2
9	MP3A	Mx	.000817	2
10	MP3A	X	-2.899	6
11	MP3A	Z	-1.673	6
12	MP3A	Mx	.000817	6
13	OVP	X	-3.758	.5
14	OVP	Z	-2.169	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
29	MP5A	Z	-3.713	3
30	MP5A	Mx	.000249	3
31	MP5A	X	-2.144	5
32	MP5A	Z	-3.713	5
33	MP5A	Mx	.000249	5
34	MP2A	X	-.871	1
35	MP2A	Z	-1.509	1
36	MP2A	Mx	.000436	1
37	MP2A	X	-.871	1
38	MP2A	Z	-1.509	1
39	MP2A	Mx	-.000436	1

### Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M46A	Y	-500	0

### Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M3	Y	-500	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M1	Y	-250	0

### Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M1	Y	-250	%50

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	Y	-1.715	2
2	MP3A	Mv	-.001	2
3	MP3A	Mz	-.001	2
4	MP3A	Y	-1.715	6
5	MP3A	Mv	-.001	6
6	MP3A	Mz	-.001	6
7	MP3A	Y	-1.715	2
8	MP3A	Mv	-.001	2
9	MP3A	Mz	.001	2
10	MP3A	Y	-1.715	6
11	MP3A	Mv	-.001	6
12	MP3A	Mz	.001	6
13	OVP	Y	-.795	.5
14	OVP	Mv	0	.5
15	OVP	Mz	0	.5
16	OVP	Y	-.795	.5
17	OVP	Mv	0	.5
18	OVP	Mz	0	.5
19	MP3A	Y	-1.857	4
20	MP3A	Mv	.001	4
21	MP3A	Mz	0	4
22	MP3A	Y	-1.857	4
23	MP3A	Mv	.001	4
24	MP3A	Mz	0	4





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	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
10	OVP	Mx	0	.5
11	OVP	X	1.988	.5
12	OVP	Mx	0	.5
13	MP3A	X	4.641	4
14	MP3A	Mx	.003	4
15	MP3A	X	4.641	4
16	MP3A	Mx	.003	4
17	MP3A	X	8.736	1
18	MP3A	Mx	.006	1
19	MP5A	X	5.412	3
20	MP5A	Mx	-.003	3
21	MP5A	X	5.412	5
22	MP5A	Mx	-.003	5
23	MP2A	X	2.187	1
24	MP2A	Mx	-.001	1
25	MP2A	X	2.187	1
26	MP2A	Mx	.001	1

	Member Label	Direction	Start Magnitude[lb/ft,F...	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
1	M1	Y	-5.795	-5.795	0	%100
2	M2	Y	-5.795	-5.795	0	%100
3	M13	Y	-6.77	-6.77	0	%100
4	M14	Y	-6.77	-6.77	0	%100
5	M15	Y	-6.77	-6.77	0	%100
6	M16	Y	-6.77	-6.77	0	%100
7	M17	Y	-5.079	-5.079	0	%100
8	M18	Y	-5.079	-5.079	0	%100
9	M19	Y	-5.079	-5.079	0	%100
10	M20	Y	-5.079	-5.079	0	%100
11	M21	Y	-6.77	-6.77	0	%100
12	M22	Y	-6.77	-6.77	0	%100
13	M23	Y	-6.77	-6.77	0	%100
14	M24	Y	-6.77	-6.77	0	%100
15	M25	Y	-2.752	-2.752	0	%100
16	M26	Y	-2.752	-2.752	0	%100
17	M27	Y	-2.752	-2.752	0	%100
18	M28	Y	-2.752	-2.752	0	%100
19	MP5A	Y	-5.795	-5.795	0	%100
20	MP4A	Y	-5.795	-5.795	0	%100
21	MP2A	Y	-5.795	-5.795	0	%100
22	MP1A	Y	-5.795	-5.795	0	%100
23	M44	Y	-2.573	-2.573	0	%100
24	M45	Y	-2.573	-2.573	0	%100
25	M46	Y	-2.573	-2.573	0	%100
26	M47	Y	-2.573	-2.573	0	%100
27	M43	Y	-5.079	-5.079	0	%100
28	M44A	Y	-5.079	-5.079	0	%100
29	MP3A	Y	-5.795	-5.795	0	%100
30	OVP	Y	-5.079	-5.079	0	%100

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	-10.112	-10.112	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.%]
60	OVP	Z	-7.613	-7.613	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	M1	X	3.792	3.792	0	%100
2	M1	Z	-6.568	-6.568	0	%100
3	M2	X	3.792	3.792	0	%100
4	M2	Z	-6.568	-6.568	0	%100
5	M13	X	.275	.275	0	%100
6	M13	Z	-.476	-.476	0	%100
7	M14	X	.275	.275	0	%100
8	M14	Z	-.476	-.476	0	%100
9	M15	X	.275	.275	0	%100
10	M15	Z	-.476	-.476	0	%100
11	M16	X	.275	.275	0	%100
12	M16	Z	-.476	-.476	0	%100
13	M17	X	.449	.449	0	%100
14	M17	Z	-.778	-.778	0	%100
15	M18	X	.449	.449	0	%100
16	M18	Z	-.778	-.778	0	%100
17	M19	X	3.157	3.157	0	%100
18	M19	Z	-5.468	-5.468	0	%100
19	M20	X	3.157	3.157	0	%100
20	M20	Z	-5.468	-5.468	0	%100
21	M21	X	.824	.824	0	%100
22	M21	Z	-1.428	-1.428	0	%100
23	M22	X	.824	.824	0	%100
24	M22	Z	-1.428	-1.428	0	%100
25	M23	X	.824	.824	0	%100
26	M23	Z	-1.428	-1.428	0	%100
27	M24	X	.824	.824	0	%100
28	M24	Z	-1.428	-1.428	0	%100
29	M25	X	.91	.91	0	%100
30	M25	Z	-1.577	-1.577	0	%100
31	M26	X	.91	.91	0	%100
32	M26	Z	-1.577	-1.577	0	%100
33	M27	X	1.31	1.31	0	%100
34	M27	Z	-2.268	-2.268	0	%100
35	M28	X	1.31	1.31	0	%100
36	M28	Z	-2.268	-2.268	0	%100
37	MP5A	X	5.056	5.056	0	%100
38	MP5A	Z	-8.757	-8.757	0	%100
39	MP4A	X	5.056	5.056	0	%100
40	MP4A	Z	-8.757	-8.757	0	%100
41	MP2A	X	5.056	5.056	0	%100
42	MP2A	Z	-8.757	-8.757	0	%100
43	MP1A	X	5.056	5.056	0	%100
44	MP1A	Z	-8.757	-8.757	0	%100
45	M44	X	1.099	1.099	0	%100
46	M44	Z	-1.904	-1.904	0	%100
47	M45	X	1.099	1.099	0	%100
48	M45	Z	-1.904	-1.904	0	%100
49	M46	X	1.099	1.099	0	%100
50	M46	Z	-1.904	-1.904	0	%100
51	M47	X	1.099	1.099	0	%100
52	M47	Z	-1.904	-1.904	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.%]
46	M44	Z	-1.099	-1.099	0	%100
47	M45	X	1.904	1.904	0	%100
48	M45	Z	-1.099	-1.099	0	%100
49	M46	X	1.904	1.904	0	%100
50	M46	Z	-1.099	-1.099	0	%100
51	M47	X	1.904	1.904	0	%100
52	M47	Z	-1.099	-1.099	0	%100
53	M43	X	1.771	1.771	0	%100
54	M43	Z	-1.022	-1.022	0	%100
55	M44A	X	3.994	3.994	0	%100
56	M44A	Z	-2.306	-2.306	0	%100
57	MP3A	X	8.757	8.757	0	%100
58	MP3A	Z	-5.056	-5.056	0	%100
59	OVP	X	6.593	6.593	0	%100
60	OVP	Z	-3.806	-3.806	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	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	2.198	2.198	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	2.198	2.198	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	2.198	2.198	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	2.198	2.198	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	2.448	2.448	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	2.448	2.448	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	2.448	2.448	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	2.448	2.448	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	2.049	2.049	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	2.049	2.049	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	2.049	2.049	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	2.049	2.049	0	%100
36	M28	Z	0	0	0	%100
37	MP5A	X	10.112	10.112	0	%100
38	MP5A	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
32	M26	Z	1.253	1.253	0	%100
33	M27	X	1.478	1.478	0	%100
34	M27	Z	.853	.853	0	%100
35	M28	X	1.478	1.478	0	%100
36	M28	Z	.853	.853	0	%100
37	MP5A	X	8.757	8.757	0	%100
38	MP5A	Z	5.056	5.056	0	%100
39	MP4A	X	8.757	8.757	0	%100
40	MP4A	Z	5.056	5.056	0	%100
41	MP2A	X	8.757	8.757	0	%100
42	MP2A	Z	5.056	5.056	0	%100
43	MP1A	X	8.757	8.757	0	%100
44	MP1A	Z	5.056	5.056	0	%100
45	M44	X	1.904	1.904	0	%100
46	M44	Z	1.099	1.099	0	%100
47	M45	X	1.904	1.904	0	%100
48	M45	Z	1.099	1.099	0	%100
49	M46	X	1.904	1.904	0	%100
50	M46	Z	1.099	1.099	0	%100
51	M47	X	1.904	1.904	0	%100
52	M47	Z	1.099	1.099	0	%100
53	M43	X	7.234	7.234	0	%100
54	M43	Z	4.177	4.177	0	%100
55	M44A	X	6.395	6.395	0	%100
56	M44A	Z	3.692	3.692	0	%100
57	MP3A	X	8.757	8.757	0	%100
58	MP3A	Z	5.056	5.056	0	%100
59	OVP	X	6.593	6.593	0	%100
60	OVP	Z	3.806	3.806	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	M1	X	3.792	3.792	0	%100
2	M1	Z	6.568	6.568	0	%100
3	M2	X	3.792	3.792	0	%100
4	M2	Z	6.568	6.568	0	%100
5	M13	X	.275	.275	0	%100
6	M13	Z	.476	.476	0	%100
7	M14	X	.275	.275	0	%100
8	M14	Z	.476	.476	0	%100
9	M15	X	.275	.275	0	%100
10	M15	Z	.476	.476	0	%100
11	M16	X	.275	.275	0	%100
12	M16	Z	.476	.476	0	%100
13	M17	X	3.157	3.157	0	%100
14	M17	Z	5.468	5.468	0	%100
15	M18	X	3.157	3.157	0	%100
16	M18	Z	5.468	5.468	0	%100
17	M19	X	.449	.449	0	%100
18	M19	Z	.778	.778	0	%100
19	M20	X	.449	.449	0	%100
20	M20	Z	.778	.778	0	%100
21	M21	X	.824	.824	0	%100
22	M21	Z	1.428	1.428	0	%100
23	M22	X	.824	.824	0	%100
24	M22	Z	1.428	1.428	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.%]
18	M19	Z	3.992	3.992	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	3.992	3.992	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	2.198	2.198	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	2.198	2.198	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	2.198	2.198	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	2.198	2.198	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	2.277	2.277	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	2.277	2.277	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	2.277	2.277	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	2.277	2.277	0	%100
37	MP5A	X	0	0	0	%100
38	MP5A	Z	10.112	10.112	0	%100
39	MP4A	X	0	0	0	%100
40	MP4A	Z	10.112	10.112	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	10.112	10.112	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	10.112	10.112	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	2.198	2.198	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	2.198	2.198	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	2.198	2.198	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	2.198	2.198	0	%100
53	M43	X	0	0	0	%100
54	M43	Z	2.133	2.133	0	%100
55	M44A	X	0	0	0	%100
56	M44A	Z	.325	.325	0	%100
57	MP3A	X	0	0	0	%100
58	MP3A	Z	10.112	10.112	0	%100
59	OVP	X	0	0	0	%100
60	OVP	Z	7.613	7.613	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	M1	X	-3.792	-3.792	0	%100
2	M1	Z	6.568	6.568	0	%100
3	M2	X	-3.792	-3.792	0	%100
4	M2	Z	6.568	6.568	0	%100
5	M13	X	-.275	-.275	0	%100
6	M13	Z	.476	.476	0	%100
7	M14	X	-.275	-.275	0	%100
8	M14	Z	.476	.476	0	%100
9	M15	X	-.275	-.275	0	%100
10	M15	Z	.476	.476	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.%]
4	M2	Z	1.264	1.264	0	%100
5	M13	X	-1.428	-1.428	0	%100
6	M13	Z	.824	.824	0	%100
7	M14	X	-1.428	-1.428	0	%100
8	M14	Z	.824	.824	0	%100
9	M15	X	-1.428	-1.428	0	%100
10	M15	Z	.824	.824	0	%100
11	M16	X	-1.428	-1.428	0	%100
12	M16	Z	.824	.824	0	%100
13	M17	X	-.11	-.11	0	%100
14	M17	Z	.063	.063	0	%100
15	M18	X	-.11	-.11	0	%100
16	M18	Z	.063	.063	0	%100
17	M19	X	-4.799	-4.799	0	%100
18	M19	Z	2.771	2.771	0	%100
19	M20	X	-4.799	-4.799	0	%100
20	M20	Z	2.771	2.771	0	%100
21	M21	X	-.476	-.476	0	%100
22	M21	Z	.275	.275	0	%100
23	M22	X	-.476	-.476	0	%100
24	M22	Z	.275	.275	0	%100
25	M23	X	-.476	-.476	0	%100
26	M23	Z	.275	.275	0	%100
27	M24	X	-.476	-.476	0	%100
28	M24	Z	.275	.275	0	%100
29	M25	X	-1.478	-1.478	0	%100
30	M25	Z	.853	.853	0	%100
31	M26	X	-1.478	-1.478	0	%100
32	M26	Z	.853	.853	0	%100
33	M27	X	-2.17	-2.17	0	%100
34	M27	Z	1.253	1.253	0	%100
35	M28	X	-2.17	-2.17	0	%100
36	M28	Z	1.253	1.253	0	%100
37	MP5A	X	-8.757	-8.757	0	%100
38	MP5A	Z	5.056	5.056	0	%100
39	MP4A	X	-8.757	-8.757	0	%100
40	MP4A	Z	5.056	5.056	0	%100
41	MP2A	X	-8.757	-8.757	0	%100
42	MP2A	Z	5.056	5.056	0	%100
43	MP1A	X	-8.757	-8.757	0	%100
44	MP1A	Z	5.056	5.056	0	%100
45	M44	X	-1.904	-1.904	0	%100
46	M44	Z	1.099	1.099	0	%100
47	M45	X	-1.904	-1.904	0	%100
48	M45	Z	1.099	1.099	0	%100
49	M46	X	-1.904	-1.904	0	%100
50	M46	Z	1.099	1.099	0	%100
51	M47	X	-1.904	-1.904	0	%100
52	M47	Z	1.099	1.099	0	%100
53	M43	X	-1.771	-1.771	0	%100
54	M43	Z	1.022	1.022	0	%100
55	M44A	X	-3.994	-3.994	0	%100
56	M44A	Z	2.306	2.306	0	%100
57	MP3A	X	-8.757	-8.757	0	%100
58	MP3A	Z	5.056	5.056	0	%100
59	OVP	X	-6.593	-6.593	0	%100
60	OVP	Z	3.806	3.806	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.%)
58	MP3A	Z	0	0	0	%100
59	OVP	X	-7.613	-7.613	0	%100
60	OVP	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	M1	X	-2.189	-2.189	0	%100
2	M1	Z	-1.264	-1.264	0	%100
3	M2	X	-2.189	-2.189	0	%100
4	M2	Z	-1.264	-1.264	0	%100
5	M13	X	-1.428	-1.428	0	%100
6	M13	Z	-.824	-.824	0	%100
7	M14	X	-1.428	-1.428	0	%100
8	M14	Z	-.824	-.824	0	%100
9	M15	X	-1.428	-1.428	0	%100
10	M15	Z	-.824	-.824	0	%100
11	M16	X	-1.428	-1.428	0	%100
12	M16	Z	-.824	-.824	0	%100
13	M17	X	-4.799	-4.799	0	%100
14	M17	Z	-2.771	-2.771	0	%100
15	M18	X	-4.799	-4.799	0	%100
16	M18	Z	-2.771	-2.771	0	%100
17	M19	X	-.11	-.11	0	%100
18	M19	Z	-.063	-.063	0	%100
19	M20	X	-.11	-.11	0	%100
20	M20	Z	-.063	-.063	0	%100
21	M21	X	-.476	-.476	0	%100
22	M21	Z	-.275	-.275	0	%100
23	M22	X	-.476	-.476	0	%100
24	M22	Z	-.275	-.275	0	%100
25	M23	X	-.476	-.476	0	%100
26	M23	Z	-.275	-.275	0	%100
27	M24	X	-.476	-.476	0	%100
28	M24	Z	-.275	-.275	0	%100
29	M25	X	-2.17	-2.17	0	%100
30	M25	Z	-1.253	-1.253	0	%100
31	M26	X	-2.17	-2.17	0	%100
32	M26	Z	-1.253	-1.253	0	%100
33	M27	X	-1.478	-1.478	0	%100
34	M27	Z	-.853	-.853	0	%100
35	M28	X	-1.478	-1.478	0	%100
36	M28	Z	-.853	-.853	0	%100
37	MP5A	X	-8.757	-8.757	0	%100
38	MP5A	Z	-5.056	-5.056	0	%100
39	MP4A	X	-8.757	-8.757	0	%100
40	MP4A	Z	-5.056	-5.056	0	%100
41	MP2A	X	-8.757	-8.757	0	%100
42	MP2A	Z	-5.056	-5.056	0	%100
43	MP1A	X	-8.757	-8.757	0	%100
44	MP1A	Z	-5.056	-5.056	0	%100
45	M44	X	-1.904	-1.904	0	%100
46	M44	Z	-1.099	-1.099	0	%100
47	M45	X	-1.904	-1.904	0	%100
48	M45	Z	-1.099	-1.099	0	%100
49	M46	X	-1.904	-1.904	0	%100
50	M46	Z	-1.099	-1.099	0	%100





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

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

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**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.%]
30	M25	Z	-1.071	-1.071	0	%100
31	M26	X	.618	.618	0	%100
32	M26	Z	-1.071	-1.071	0	%100
33	M27	X	.89	.89	0	%100
34	M27	Z	-1.541	-1.541	0	%100
35	M28	X	.89	.89	0	%100
36	M28	Z	-1.541	-1.541	0	%100
37	MP5A	X	1.594	1.594	0	%100
38	MP5A	Z	-2.76	-2.76	0	%100
39	MP4A	X	1.594	1.594	0	%100
40	MP4A	Z	-2.76	-2.76	0	%100
41	MP2A	X	1.594	1.594	0	%100
42	MP2A	Z	-2.76	-2.76	0	%100
43	MP1A	X	1.594	1.594	0	%100
44	MP1A	Z	-2.76	-2.76	0	%100
45	M44	X	.801	.801	0	%100
46	M44	Z	-1.388	-1.388	0	%100
47	M45	X	.801	.801	0	%100
48	M45	Z	-1.388	-1.388	0	%100
49	M46	X	.801	.801	0	%100
50	M46	Z	-1.388	-1.388	0	%100
51	M47	X	.801	.801	0	%100
52	M47	Z	-1.388	-1.388	0	%100
53	M43	X	5.4e-5	5.4e-5	0	%100
54	M43	Z	-9.3e-5	-9.3e-5	0	%100
55	M44A	X	.143	.143	0	%100
56	M44A	Z	-.249	-.249	0	%100
57	MP3A	X	1.594	1.594	0	%100
58	MP3A	Z	-2.76	-2.76	0	%100
59	OVP	X	1.317	1.317	0	%100
60	OVP	Z	-2.28	-2.28	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	M1	X	.69	.69	0	%100
2	M1	Z	-.398	-.398	0	%100
3	M2	X	.69	.69	0	%100
4	M2	Z	-.398	-.398	0	%100
5	M13	X	.79	.79	0	%100
6	M13	Z	-.456	-.456	0	%100
7	M14	X	.79	.79	0	%100
8	M14	Z	-.456	-.456	0	%100
9	M15	X	.79	.79	0	%100
10	M15	Z	-.456	-.456	0	%100
11	M16	X	.79	.79	0	%100
12	M16	Z	-.456	-.456	0	%100
13	M17	X	.038	.038	0	%100
14	M17	Z	-.022	-.022	0	%100
15	M18	X	.038	.038	0	%100
16	M18	Z	-.022	-.022	0	%100
17	M19	X	1.659	1.659	0	%100
18	M19	Z	-.958	-.958	0	%100
19	M20	X	1.659	1.659	0	%100
20	M20	Z	-.958	-.958	0	%100
21	M21	X	.265	.265	0	%100
22	M21	Z	-.153	-.153	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.%]
16	M18	Z	0	0	0	%100
17	M19	X	.846	.846	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	.846	.846	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	1.392	1.392	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	1.392	1.392	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	1.392	1.392	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	1.392	1.392	0	%100
36	M28	Z	0	0	0	%100
37	MP5A	X	3.187	3.187	0	%100
38	MP5A	Z	0	0	0	%100
39	MP4A	X	3.187	3.187	0	%100
40	MP4A	Z	0	0	0	%100
41	MP2A	X	3.187	3.187	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	3.187	3.187	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	1.603	1.603	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	1.603	1.603	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	1.603	1.603	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	1.603	1.603	0	%100
52	M47	Z	0	0	0	%100
53	M43	X	2.146	2.146	0	%100
54	M43	Z	0	0	0	%100
55	M44A	X	2.729	2.729	0	%100
56	M44A	Z	0	0	0	%100
57	MP3A	X	3.187	3.187	0	%100
58	MP3A	Z	0	0	0	%100
59	OVP	X	2.633	2.633	0	%100
60	OVP	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	M1	X	.69	.69	0	%100
2	M1	Z	.398	.398	0	%100
3	M2	X	.69	.69	0	%100
4	M2	Z	.398	.398	0	%100
5	M13	X	.79	.79	0	%100
6	M13	Z	.456	.456	0	%100
7	M14	X	.79	.79	0	%100
8	M14	Z	.456	.456	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.%]
2	M1	Z	2.07	2.07	0	%100
3	M2	X	1.195	1.195	0	%100
4	M2	Z	2.07	2.07	0	%100
5	M13	X	.152	.152	0	%100
6	M13	Z	.263	.263	0	%100
7	M14	X	.152	.152	0	%100
8	M14	Z	.263	.263	0	%100
9	M15	X	.152	.152	0	%100
10	M15	Z	.263	.263	0	%100
11	M16	X	.152	.152	0	%100
12	M16	Z	.263	.263	0	%100
13	M17	X	1.091	1.091	0	%100
14	M17	Z	1.89	1.89	0	%100
15	M18	X	1.091	1.091	0	%100
16	M18	Z	1.89	1.89	0	%100
17	M19	X	.155	.155	0	%100
18	M19	Z	.269	.269	0	%100
19	M20	X	.155	.155	0	%100
20	M20	Z	.269	.269	0	%100
21	M21	X	.458	.458	0	%100
22	M21	Z	.794	.794	0	%100
23	M22	X	.458	.458	0	%100
24	M22	Z	.794	.794	0	%100
25	M23	X	.458	.458	0	%100
26	M23	Z	.794	.794	0	%100
27	M24	X	.458	.458	0	%100
28	M24	Z	.794	.794	0	%100
29	M25	X	.89	.89	0	%100
30	M25	Z	1.541	1.541	0	%100
31	M26	X	.89	.89	0	%100
32	M26	Z	1.541	1.541	0	%100
33	M27	X	.618	.618	0	%100
34	M27	Z	1.071	1.071	0	%100
35	M28	X	.618	.618	0	%100
36	M28	Z	1.071	1.071	0	%100
37	MP5A	X	1.594	1.594	0	%100
38	MP5A	Z	2.76	2.76	0	%100
39	MP4A	X	1.594	1.594	0	%100
40	MP4A	Z	2.76	2.76	0	%100
41	MP2A	X	1.594	1.594	0	%100
42	MP2A	Z	2.76	2.76	0	%100
43	MP1A	X	1.594	1.594	0	%100
44	MP1A	Z	2.76	2.76	0	%100
45	M44	X	.801	.801	0	%100
46	M44	Z	1.388	1.388	0	%100
47	M45	X	.801	.801	0	%100
48	M45	Z	1.388	1.388	0	%100
49	M46	X	.801	.801	0	%100
50	M46	Z	1.388	1.388	0	%100
51	M47	X	.801	.801	0	%100
52	M47	Z	1.388	1.388	0	%100
53	M43	X	1.088	1.088	0	%100
54	M43	Z	1.885	1.885	0	%100
55	M44A	X	.623	.623	0	%100
56	M44A	Z	1.079	1.079	0	%100
57	MP3A	X	1.594	1.594	0	%100
58	MP3A	Z	2.76	2.76	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.%]
52	M47	Z	1.603	1.603	0	%100
53	M43	X	0	0	0	%100
54	M43	Z	.736	.736	0	%100
55	M44A	X	0	0	0	%100
56	M44A	Z	.112	.112	0	%100
57	MP3A	X	0	0	0	%100
58	MP3A	Z	3.187	3.187	0	%100
59	OVP	X	0	0	0	%100
60	OVP	Z	2.633	2.633	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	M1	X	-1.195	-1.195	0	%100
2	M1	Z	2.07	2.07	0	%100
3	M2	X	-1.195	-1.195	0	%100
4	M2	Z	2.07	2.07	0	%100
5	M13	X	-.152	-.152	0	%100
6	M13	Z	.263	.263	0	%100
7	M14	X	-.152	-.152	0	%100
8	M14	Z	.263	.263	0	%100
9	M15	X	-.152	-.152	0	%100
10	M15	Z	.263	.263	0	%100
11	M16	X	-.152	-.152	0	%100
12	M16	Z	.263	.263	0	%100
13	M17	X	-.155	-.155	0	%100
14	M17	Z	.269	.269	0	%100
15	M18	X	-.155	-.155	0	%100
16	M18	Z	.269	.269	0	%100
17	M19	X	-1.091	-1.091	0	%100
18	M19	Z	1.89	1.89	0	%100
19	M20	X	-1.091	-1.091	0	%100
20	M20	Z	1.89	1.89	0	%100
21	M21	X	-.458	-.458	0	%100
22	M21	Z	.794	.794	0	%100
23	M22	X	-.458	-.458	0	%100
24	M22	Z	.794	.794	0	%100
25	M23	X	-.458	-.458	0	%100
26	M23	Z	.794	.794	0	%100
27	M24	X	-.458	-.458	0	%100
28	M24	Z	.794	.794	0	%100
29	M25	X	-.618	-.618	0	%100
30	M25	Z	1.071	1.071	0	%100
31	M26	X	-.618	-.618	0	%100
32	M26	Z	1.071	1.071	0	%100
33	M27	X	-.89	-.89	0	%100
34	M27	Z	1.541	1.541	0	%100
35	M28	X	-.89	-.89	0	%100
36	M28	Z	1.541	1.541	0	%100
37	MP5A	X	-1.594	-1.594	0	%100
38	MP5A	Z	2.76	2.76	0	%100
39	MP4A	X	-1.594	-1.594	0	%100
40	MP4A	Z	2.76	2.76	0	%100
41	MP2A	X	-1.594	-1.594	0	%100
42	MP2A	Z	2.76	2.76	0	%100
43	MP1A	X	-1.594	-1.594	0	%100
44	MP1A	Z	2.76	2.76	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.%]
38	MP5A	Z	1.594	1.594	0	%100
39	MP4A	X	-2.76	-2.76	0	%100
40	MP4A	Z	1.594	1.594	0	%100
41	MP2A	X	-2.76	-2.76	0	%100
42	MP2A	Z	1.594	1.594	0	%100
43	MP1A	X	-2.76	-2.76	0	%100
44	MP1A	Z	1.594	1.594	0	%100
45	M44	X	-1.388	-1.388	0	%100
46	M44	Z	.801	.801	0	%100
47	M45	X	-1.388	-1.388	0	%100
48	M45	Z	.801	.801	0	%100
49	M46	X	-1.388	-1.388	0	%100
50	M46	Z	.801	.801	0	%100
51	M47	X	-1.388	-1.388	0	%100
52	M47	Z	.801	.801	0	%100
53	M43	X	-.611	-.611	0	%100
54	M43	Z	.353	.353	0	%100
55	M44A	X	-1.382	-1.382	0	%100
56	M44A	Z	.798	.798	0	%100
57	MP3A	X	-2.76	-2.76	0	%100
58	MP3A	Z	1.594	1.594	0	%100
59	OVP	X	-2.28	-2.28	0	%100
60	OVP	Z	1.317	1.317	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	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	-1.217	-1.217	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	-1.217	-1.217	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	-1.217	-1.217	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	-1.217	-1.217	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	-.846	-.846	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	-.846	-.846	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	-.846	-.846	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	-.846	-.846	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	-1.392	-1.392	0	%100
30	M25	Z	0	0	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.%]
24	M22	Z	-.153	-.153	0	%100
25	M23	X	-.265	-.265	0	%100
26	M23	Z	-.153	-.153	0	%100
27	M24	X	-.265	-.265	0	%100
28	M24	Z	-.153	-.153	0	%100
29	M25	X	-1.474	-1.474	0	%100
30	M25	Z	-.851	-.851	0	%100
31	M26	X	-1.474	-1.474	0	%100
32	M26	Z	-.851	-.851	0	%100
33	M27	X	-1.004	-1.004	0	%100
34	M27	Z	-.58	-.58	0	%100
35	M28	X	-1.004	-1.004	0	%100
36	M28	Z	-.58	-.58	0	%100
37	MP5A	X	-2.76	-2.76	0	%100
38	MP5A	Z	-1.594	-1.594	0	%100
39	MP4A	X	-2.76	-2.76	0	%100
40	MP4A	Z	-1.594	-1.594	0	%100
41	MP2A	X	-2.76	-2.76	0	%100
42	MP2A	Z	-1.594	-1.594	0	%100
43	MP1A	X	-2.76	-2.76	0	%100
44	MP1A	Z	-1.594	-1.594	0	%100
45	M44	X	-1.388	-1.388	0	%100
46	M44	Z	-.801	-.801	0	%100
47	M45	X	-1.388	-1.388	0	%100
48	M45	Z	-.801	-.801	0	%100
49	M46	X	-1.388	-1.388	0	%100
50	M46	Z	-.801	-.801	0	%100
51	M47	X	-1.388	-1.388	0	%100
52	M47	Z	-.801	-.801	0	%100
53	M43	X	-2.496	-2.496	0	%100
54	M43	Z	-1.441	-1.441	0	%100
55	M44A	X	-2.213	-2.213	0	%100
56	M44A	Z	-1.277	-1.277	0	%100
57	MP3A	X	-2.76	-2.76	0	%100
58	MP3A	Z	-1.594	-1.594	0	%100
59	OVP	X	-2.28	-2.28	0	%100
60	OVP	Z	-1.317	-1.317	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	M1	X	-1.195	-1.195	0	%100
2	M1	Z	-2.07	-2.07	0	%100
3	M2	X	-1.195	-1.195	0	%100
4	M2	Z	-2.07	-2.07	0	%100
5	M13	X	-.152	-.152	0	%100
6	M13	Z	-.263	-.263	0	%100
7	M14	X	-.152	-.152	0	%100
8	M14	Z	-.263	-.263	0	%100
9	M15	X	-.152	-.152	0	%100
10	M15	Z	-.263	-.263	0	%100
11	M16	X	-.152	-.152	0	%100
12	M16	Z	-.263	-.263	0	%100
13	M17	X	-1.091	-1.091	0	%100
14	M17	Z	-1.89	-1.89	0	%100
15	M18	X	-1.091	-1.091	0	%100
16	M18	Z	-1.89	-1.89	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.%]
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	-.25	-.25	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	-.25	-.25	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	-.25	-.25	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	-.25	-.25	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	-.137	-.137	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	-.137	-.137	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	-.137	-.137	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-.137	-.137	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-.142	-.142	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-.142	-.142	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-.142	-.142	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-.142	-.142	0	%100
37	MP5A	X	0	0	0	%100
38	MP5A	Z	-.632	-.632	0	%100
39	MP4A	X	0	0	0	%100
40	MP4A	Z	-.632	-.632	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	-.632	-.632	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	-.632	-.632	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	-.137	-.137	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	-.137	-.137	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	-.137	-.137	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	-.137	-.137	0	%100
53	M43	X	0	0	0	%100
54	M43	Z	-.133	-.133	0	%100
55	M44A	X	0	0	0	%100
56	M44A	Z	-.02	-.02	0	%100
57	MP3A	X	0	0	0	%100
58	MP3A	Z	-.632	-.632	0	%100
59	OVP	X	0	0	0	%100
60	OVP	Z	-.476	-.476	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	M1	X	.237	.237	0	%100
2	M1	Z	-.411	-.411	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.%]
60	OVP	Z	-.412	-.412	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	M1	X	.137	.137	0	%100
2	M1	Z	-.079	-.079	0	%100
3	M2	X	.137	.137	0	%100
4	M2	Z	-.079	-.079	0	%100
5	M13	X	.089	.089	0	%100
6	M13	Z	-.052	-.052	0	%100
7	M14	X	.089	.089	0	%100
8	M14	Z	-.052	-.052	0	%100
9	M15	X	.089	.089	0	%100
10	M15	Z	-.052	-.052	0	%100
11	M16	X	.089	.089	0	%100
12	M16	Z	-.052	-.052	0	%100
13	M17	X	.007	.007	0	%100
14	M17	Z	-.004	-.004	0	%100
15	M18	X	.007	.007	0	%100
16	M18	Z	-.004	-.004	0	%100
17	M19	X	.3	.3	0	%100
18	M19	Z	-.173	-.173	0	%100
19	M20	X	.3	.3	0	%100
20	M20	Z	-.173	-.173	0	%100
21	M21	X	.03	.03	0	%100
22	M21	Z	-.017	-.017	0	%100
23	M22	X	.03	.03	0	%100
24	M22	Z	-.017	-.017	0	%100
25	M23	X	.03	.03	0	%100
26	M23	Z	-.017	-.017	0	%100
27	M24	X	.03	.03	0	%100
28	M24	Z	-.017	-.017	0	%100
29	M25	X	.092	.092	0	%100
30	M25	Z	-.053	-.053	0	%100
31	M26	X	.092	.092	0	%100
32	M26	Z	-.053	-.053	0	%100
33	M27	X	.136	.136	0	%100
34	M27	Z	-.078	-.078	0	%100
35	M28	X	.136	.136	0	%100
36	M28	Z	-.078	-.078	0	%100
37	MP5A	X	.547	.547	0	%100
38	MP5A	Z	-.316	-.316	0	%100
39	MP4A	X	.547	.547	0	%100
40	MP4A	Z	-.316	-.316	0	%100
41	MP2A	X	.547	.547	0	%100
42	MP2A	Z	-.316	-.316	0	%100
43	MP1A	X	.547	.547	0	%100
44	MP1A	Z	-.316	-.316	0	%100
45	M44	X	.119	.119	0	%100
46	M44	Z	-.069	-.069	0	%100
47	M45	X	.119	.119	0	%100
48	M45	Z	-.069	-.069	0	%100
49	M46	X	.119	.119	0	%100
50	M46	Z	-.069	-.069	0	%100
51	M47	X	.119	.119	0	%100
52	M47	Z	-.069	-.069	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.%l	End Location(ft.%l
46	M44	Z	0	0	0	%100
47	M45	X	.137	.137	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	.137	.137	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	.137	.137	0	%100
52	M47	Z	0	0	0	%100
53	M43	X	.389	.389	0	%100
54	M43	Z	0	0	0	%100
55	M44A	X	.493	.493	0	%100
56	M44A	Z	0	0	0	%100
57	MP3A	X	.632	.632	0	%100
58	MP3A	Z	0	0	0	%100
59	OVP	X	.476	.476	0	%100
60	OVP	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	M1	X	.137	.137	0	%100
2	M1	Z	.079	.079	0	%100
3	M2	X	.137	.137	0	%100
4	M2	Z	.079	.079	0	%100
5	M13	X	.089	.089	0	%100
6	M13	Z	.052	.052	0	%100
7	M14	X	.089	.089	0	%100
8	M14	Z	.052	.052	0	%100
9	M15	X	.089	.089	0	%100
10	M15	Z	.052	.052	0	%100
11	M16	X	.089	.089	0	%100
12	M16	Z	.052	.052	0	%100
13	M17	X	.3	.3	0	%100
14	M17	Z	.173	.173	0	%100
15	M18	X	.3	.3	0	%100
16	M18	Z	.173	.173	0	%100
17	M19	X	.007	.007	0	%100
18	M19	Z	.004	.004	0	%100
19	M20	X	.007	.007	0	%100
20	M20	Z	.004	.004	0	%100
21	M21	X	.03	.03	0	%100
22	M21	Z	.017	.017	0	%100
23	M22	X	.03	.03	0	%100
24	M22	Z	.017	.017	0	%100
25	M23	X	.03	.03	0	%100
26	M23	Z	.017	.017	0	%100
27	M24	X	.03	.03	0	%100
28	M24	Z	.017	.017	0	%100
29	M25	X	.136	.136	0	%100
30	M25	Z	.078	.078	0	%100
31	M26	X	.136	.136	0	%100
32	M26	Z	.078	.078	0	%100
33	M27	X	.092	.092	0	%100
34	M27	Z	.053	.053	0	%100
35	M28	X	.092	.092	0	%100
36	M28	Z	.053	.053	0	%100
37	MP5A	X	.547	.547	0	%100
38	MP5A	Z	.316	.316	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.%]
32	M26	Z	.142	.142	0	%100
33	M27	X	.057	.057	0	%100
34	M27	Z	.099	.099	0	%100
35	M28	X	.057	.057	0	%100
36	M28	Z	.099	.099	0	%100
37	MP5A	X	.316	.316	0	%100
38	MP5A	Z	.547	.547	0	%100
39	MP4A	X	.316	.316	0	%100
40	MP4A	Z	.547	.547	0	%100
41	MP2A	X	.316	.316	0	%100
42	MP2A	Z	.547	.547	0	%100
43	MP1A	X	.316	.316	0	%100
44	MP1A	Z	.547	.547	0	%100
45	M44	X	.069	.069	0	%100
46	M44	Z	.119	.119	0	%100
47	M45	X	.069	.069	0	%100
48	M45	Z	.119	.119	0	%100
49	M46	X	.069	.069	0	%100
50	M46	Z	.119	.119	0	%100
51	M47	X	.069	.069	0	%100
52	M47	Z	.119	.119	0	%100
53	M43	X	.197	.197	0	%100
54	M43	Z	.341	.341	0	%100
55	M44A	X	.113	.113	0	%100
56	M44A	Z	.195	.195	0	%100
57	MP3A	X	.316	.316	0	%100
58	MP3A	Z	.547	.547	0	%100
59	OVP	X	.238	.238	0	%100
60	OVP	Z	.412	.412	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	M1	X	0	0	0	%100
2	M1	Z	.632	.632	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	.632	.632	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	.25	.25	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	.25	.25	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	.25	.25	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	.25	.25	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	.137	.137	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	.137	.137	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.%]
18	M19	Z	.342	.342	0	%100
19	M20	X	-.197	-.197	0	%100
20	M20	Z	.342	.342	0	%100
21	M21	X	-.052	-.052	0	%100
22	M21	Z	.089	.089	0	%100
23	M22	X	-.052	-.052	0	%100
24	M22	Z	.089	.089	0	%100
25	M23	X	-.052	-.052	0	%100
26	M23	Z	.089	.089	0	%100
27	M24	X	-.052	-.052	0	%100
28	M24	Z	.089	.089	0	%100
29	M25	X	-.057	-.057	0	%100
30	M25	Z	.099	.099	0	%100
31	M26	X	-.057	-.057	0	%100
32	M26	Z	.099	.099	0	%100
33	M27	X	-.082	-.082	0	%100
34	M27	Z	.142	.142	0	%100
35	M28	X	-.082	-.082	0	%100
36	M28	Z	.142	.142	0	%100
37	MP5A	X	-.316	-.316	0	%100
38	MP5A	Z	.547	.547	0	%100
39	MP4A	X	-.316	-.316	0	%100
40	MP4A	Z	.547	.547	0	%100
41	MP2A	X	-.316	-.316	0	%100
42	MP2A	Z	.547	.547	0	%100
43	MP1A	X	-.316	-.316	0	%100
44	MP1A	Z	.547	.547	0	%100
45	M44	X	-.069	-.069	0	%100
46	M44	Z	.119	.119	0	%100
47	M45	X	-.069	-.069	0	%100
48	M45	Z	.119	.119	0	%100
49	M46	X	-.069	-.069	0	%100
50	M46	Z	.119	.119	0	%100
51	M47	X	-.069	-.069	0	%100
52	M47	Z	.119	.119	0	%100
53	M43	X	-1e-5	-1e-5	0	%100
54	M43	Z	1.7e-5	1.7e-5	0	%100
55	M44A	X	-.026	-.026	0	%100
56	M44A	Z	.045	.045	0	%100
57	MP3A	X	-.316	-.316	0	%100
58	MP3A	Z	.547	.547	0	%100
59	OVP	X	-.238	-.238	0	%100
60	OVP	Z	.412	.412	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	M1	X	-.137	-.137	0	%100
2	M1	Z	.079	.079	0	%100
3	M2	X	-.137	-.137	0	%100
4	M2	Z	.079	.079	0	%100
5	M13	X	-.089	-.089	0	%100
6	M13	Z	.052	.052	0	%100
7	M14	X	-.089	-.089	0	%100
8	M14	Z	.052	.052	0	%100
9	M15	X	-.089	-.089	0	%100
10	M15	Z	.052	.052	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft]	End Magnitude[lb/ft]	Start Location[ft]	End Location[ft]
4	M2	Z	0	0	0	%100
5	M13	X	-.137	-.137	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	-.137	-.137	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	-.137	-.137	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	-.137	-.137	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	-.153	-.153	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	-.153	-.153	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	-.153	-.153	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	-.153	-.153	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	-.128	-.128	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	-.128	-.128	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	-.128	-.128	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	-.128	-.128	0	%100
36	M28	Z	0	0	0	%100
37	MP5A	X	-.632	-.632	0	%100
38	MP5A	Z	0	0	0	%100
39	MP4A	X	-.632	-.632	0	%100
40	MP4A	Z	0	0	0	%100
41	MP2A	X	-.632	-.632	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	-.632	-.632	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	-.137	-.137	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	-.137	-.137	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	-.137	-.137	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	-.137	-.137	0	%100
52	M47	Z	0	0	0	%100
53	M43	X	-.389	-.389	0	%100
54	M43	Z	0	0	0	%100
55	M44A	X	-.493	-.493	0	%100
56	M44A	Z	0	0	0	%100
57	MP3A	X	-.632	-.632	0	%100
58	MP3A	Z	0	0	0	%100
59	OVP	X	-.476	-.476	0	%100
60	OVP	Z	0	0	0	%100





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

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

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

	Member	Shape	Code C...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi°Pnc [lb]	phi°Pnt [lb]	phi°Mn y...	phi°Mn z...	Cb	Eqn
23	M44	SR 0.625	.036	1.667	11	.009	0		5	2158.269	9664.074	.101	.101	1...	H1-1b
24	M45	SR 0.625	.037	1.667	8	.021	0		37	2158.269	9664.074	.101	.101	1...	H1-1b
25	M46	SR 0.625	.042	1.667	6	.025	0		40	2158.269	9664.074	.101	.101	1...	H1-1b
26	M47	SR 0.625	.044	1.667	2	.005	0		42	2158.269	9664.074	.101	.101	1...	H1-1b
27	M43	PIPE 2.0	.081	4.57	11	.005	0		23	11774.423	32130	1.872	1.872	1...	H1-1b
28	M44A	PIPE 2.0	.025	2.384	4	.002	4.769		22	24461.764	32130	1.872	1.872	1...	H1-1b
29	MP3A	PIPE 2.5	.101	2.333	41	.051	4.083		40	30038.461	50715	3.596	3.596	4...	H1-1b
30	OVP	PIPE 2.0	.019	.542	10	.030	.25		6	26521.424	32130	1.872	1.872	1...	H1-1b

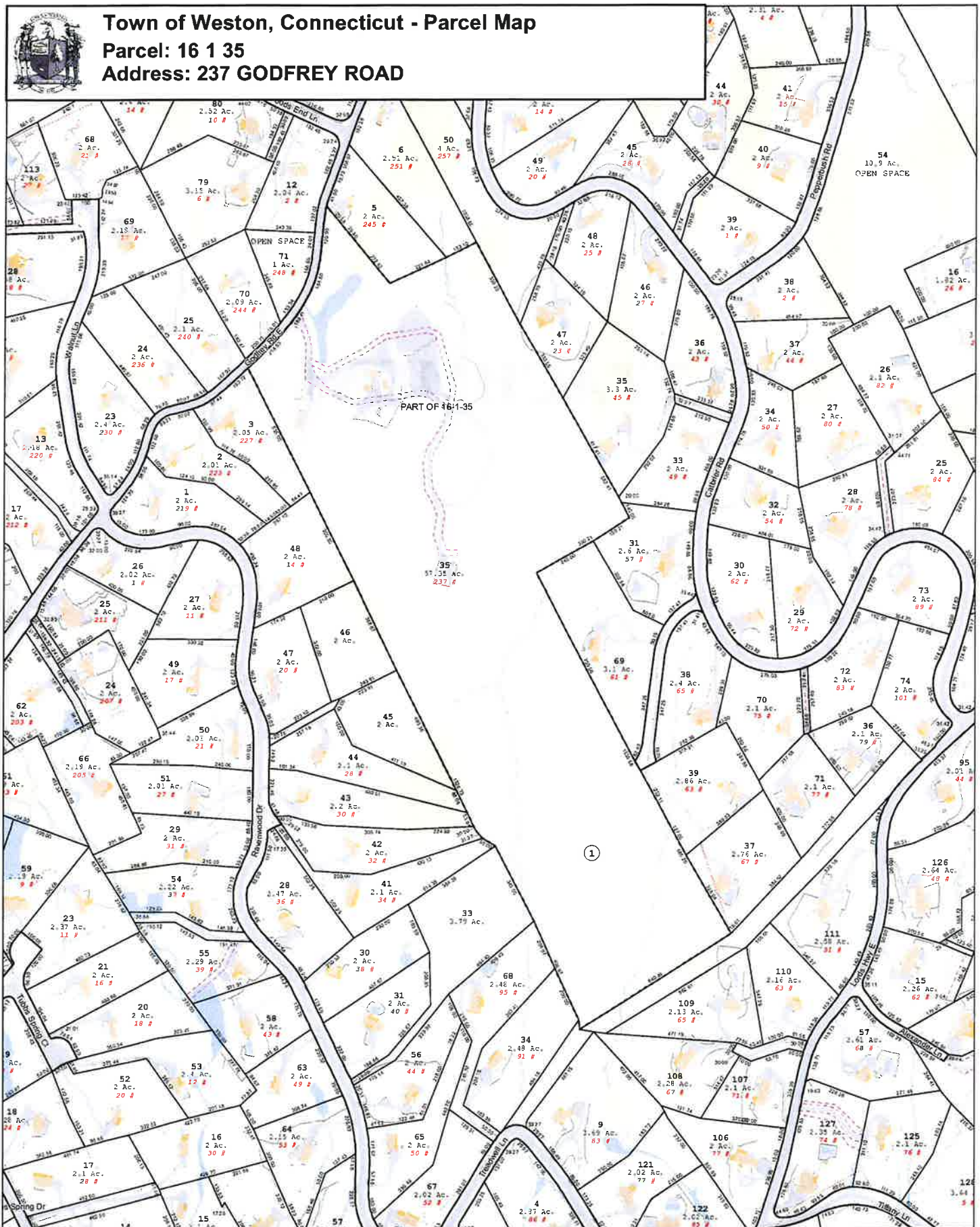
# **ATTACHMENT 4**



# Town of Weston, Connecticut - Parcel Map

Parcel: 16 1 35

Address: 237 GODFREY ROAD



Approximate Scale:

0 90 180 270 360  
Feet

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

Map Produced  
May 2023





# Town of Weston, CT

## Property Listing Report

Map Block Lot 16 1 35

Developer Map 1957

Unique Identifier E00131

Developer Lot

Building # 1

### Property Information

Property Location	237 GODFREY ROAD
Mailing Address	237 GODFREY RD WESTON CT 06883
Land Use	Governmental Building
Zoning Code	C
Neighborhood	C100

Owner	TOWN OF WESTON
Co-Owner	LANDFILL/TRANSFER STATION
Book / Page	0074/0498
Land Class	Commercial
Census Tract	83430
Acreage	57.35

### Valuation Summary

(Assessed value = 70% of Appraised Value)

Item	Appraised	Assessed
Buildings	37330	26130
Outbuildings	76175	53320
Land	2198320	1538830
Total	2311825	1618280

### Building Area Info - sq/ft

Living	220
Basement	0
Finished Basement	0
Fin Bsmt Quality	



10	23
15 OFC-	22 Fr Gar

### Primary Construction Details

Year Built	1980
Building Desc.	Commercial
Building Style	
Stories	1
Exterior Walls	Reinforced Concrete
Exterior Walls 2	Reinforced Concrete
Interior Walls	Other
Interior Walls 2	Other
Interior Floors 1	Concr Abv Grad
Interior Floors 2	Concr Abv Grad

Heating Fuel	Oil
Heating Type	Forced Hot Air
AC Type	None
Bedrooms	0
Full Bathrooms	0
Half Bathrooms	0
Extra Fixtures	0
Total Rooms	0
Bath Style	NA
Kitchen Style	
Occupancy	0

Building Use	Office Building
Building Condition	Average
Frame Type	C
Fireplaces	0
Bsmt Gar	0
Bsmt Access	
Building Grade	0
Roof Style	Gable
Roof Cover	Asphalt

Report Created On 9/29/2023



# Town of Weston, CT

## Property Listing Report

Map Block Lot 16 1 35

Developer Map 1957

Unique Identifier E00131

Developer Lot

Building # 1

### Detached Outbuildings

Type	Description	Area (sq ft)	Condition	Year Built
Shed	Frame	460	Average	1980
Garage	Detached Garage	912	Good	1992
Other	Generator	0		2019
Shed	Frame	288	Average	1980
Accessory Bldgs	Work Shop Avg	207	Average	1980
Shed	Frame	676	Average	1980
Paving	Paving	19000	Average	1980

### Attached Extra Features

Type	Description	Area (sq ft)	Condition	Year Built
Garage	Frame	506	Good	1980

### Sales History



Owner of Record	Book/ Page	Sale Date	Sale Price
TOWN OF WESTON	0074_0498	1/1/1900	0

# **ATTACHMENT 5**





## Certificate of Mailing — Firm

Name and Address of Sender  Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	TOTAL NO. of Pieces Listed by Sender  <div style="text-align: center; font-size: 2em;">2</div>	TOTAL NO. of Pieces Received at Post Office™  <div style="text-align: center; font-size: 2em;">2</div>	Affix Stamp Here <i>Postmark with Date of Receipt.</i>  <div style="text-align: right;">    <div style="margin-left: 20px;">             ZIP 06103              041L12203937           </div> </div>			
USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)		Postage	Fee	Special Handling	Parcel Airlift
1.	Samantha Nestor, First Selectwoman Town of Weston 56 Norfield Avenue Weston, CT 06883					
2.	James Pjura, Zoning/Code Enforcement Officer Town Hall Annex 24 School Street Weston, CT 06883					
3.						
4.						
5.						
6.						