

January 3, 2024

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
6 Progress Avenue, Seymour, 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 Seymour (“Town”) in June of 2000. Cellco’s shared use of the tower was approved by the Council in September of 2010 (TS-VER-124-100823). A copy of the Town’s original tower approval and Cellco’s tower share approval are included in Attachment 1.

Cellco’s proposed modification involves the installation of two (2) interference mitigation filters (“filters”) on Cellco’s existing antenna platform and mounting assembly. The filter specification sheet 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 Seymour’s Chief Elected Official and Land Use Officer. A copy of this letter is also being sent to 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 modification 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 mounting

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assembly.

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 Cellco's new 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 mounts and mounting assemblies, 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:

Annamarie Drugonis, First Selectwoman

Keith Rosenfeld, Town Planner

EDMAC LLC, Property Owner

Alex Tyurin, Verizon Wireless

ATTACHMENT 1

Building Department
Address
City
State
Zip
Phone
Fax
E-mail
Website

Concrete Base for Tower

Date 6-20-19

APPLICATION FOR BUILDING PERMIT

B-01711

No. 8571

CR #4502

Estimated Cost \$126,000
Fee \$~~100~~
Occupancy Fee \$30.00
Additional Cost \$1846

THE BUILDING DEPARTMENT, TOWN OF SEYMOUR, CONN.

I, undersigned, hereby applies for a permit to do work according to the following specifications:

2 Progress Ave Lot No. 13 Side of Street R Zone ST
West cross street Silvermine Road
Name of building Emac Communications Co Inc Address 50 Olivia St
Owner Northeast Tower Address 170 River Rd Unionville
Architect Pirad Inc Address 1545 Ridge Drive Plymouth
Main Bldg.: No. ft. front overall No. ft. deep overall Area
No. of wings Garages No. of families No. of stories
Construction Steel Concrete No. of rooms: 1st 2nd 3rd
Size of Lot 2.11 ac Dist. from Street Line 190' Dist. from Side Line Street
Use of building is concrete tower base as per plans and specs on file

Sewer Septic Tank

Building Department
Address
City
State
Zip
Phone
Fax
E-mail
Website

Date 6-29-19

APPLICATION FOR BUILDING PERMIT

NO-FEE PD WITH BLDG. PERMIT.

No. 8581

REC # B-01720

Estimated Cost \$^{Included with Permit}
Fee \$
Occupancy Fee \$
Additional Cost \$

THE BUILDING DEPARTMENT, TOWN OF SEYMOUR, CONN.

I, undersigned, hereby applies for a permit to do work according to the following specifications:

2 Progress Ave Lot No. 13 Side of Street R Zone ST2
West cross street Silvermine Rd
Name of building Emac Communications Co Inc Address 50 Olivia St Derby
Owner Northeast Tower Address 170 River Rd Unionville
Architect Pirad Inc Address 1545 Ridge Dr Plymouth
Main Bldg.: No. ft. front overall No. ft. deep overall Area
No. of wings Garages No. of families No. of stories
Construction Steel + Concrete No. of rooms: 1st 2nd 3rd
Size of Lot 2.11 ac Dist. from Street Line 190 Dist. from Side Line Street
Use of building is Erection of Steel Tower as per plans & specs on file

Sewer Septic Tank



SEYMOUR PLANNING AND ZONING COMMISSION

TOWN HALL

1 FIRST STREET

SEYMOUR, CONNECTICUT

ZONING PERMIT

PROPERTY IDENTIFICATION

Address 2 PROGRESS AV Zone GI-2
 Tax Map 1-5 Parcel No 12N Developer's Lot No _____
 Name of Applicant EMAC COMMUNICATION Tel No 735 7733

DESCRIPTION OF WORK

Construction of Bldgs and site improvements as shown
 on site plan approved by PtZ 11-4-99 & M Foundation
 Plans for tower on file with Town Engineer.
 Construction of tower not authorized until bond for tower received.

PLOT PLAN AND SURVEY

1. Attach plot plan prepared at a scale of, not more than
 50 ft to one inch. Plot plan for a zoning/start permit
 shall be prepared using available data, but need not be
 an A-2 survey. on file with PtZ

2. As Built- A-2 Survey

- Not required to assure zoning compliance
- Required before a Certificate of Occupancy will be authorized.

SOIL EROSION CONTROL PLAN

- Not required
- Required. Show on plot plan or attach separate plan.

APPROVALS

1. Zoning/Start permit approved. Building permit authorized.

Ronald Lopez Asst ZEO : 6-20-00 Date

2. Zoning/Development Completion Certificate
 Based on a review of the zoning/start permit, building
 permit, A-2 survey as required and/or an inspection of
 the property, this development conforms to the zoning
 regulations and a certificate of occupancy is authorized.

_____ ZEO _____ Date



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

Internet: ct.gov/csc

Daniel F. Caruso
Chairman

September 24, 2010

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

RE: **TS-VER-124-100823** - Celco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 6 Progress Avenue, Seymour, Connecticut.

Dear Attorney Baldwin:

At a public meeting held September 23, 2010, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures. 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. Any additional change to this facility may require an explicit request to this agency pursuant to General Statutes § 16-50aa or notice pursuant to Regulations of Connecticut State Agencies Section 16-50j-73, as applicable. Such request or 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.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction. Please be advised that the validity of this action shall expire one year from the date of this letter.

The proposed shared use is to be implemented as specified in your letter dated August 23, 2010 and additional correspondence dated August 31, 2010, including the placement of all necessary equipment and shelters within the tower compound.

Thank you for your attention and cooperation.

Very truly yours,

Daniel F. Caruso
Chairman

DFC/CDM/laf

c: The Honorable Paul F. Roy, First Selectman, Town of Seymour
James Baldwin, Sr., Zoning Enforcement Officer, Town of Seymour
EMAC Communications, LLC



Affirmative Action / Equal Opportunity Employer

ATTACHMENT 2

KA-6030

TWIN BANDSTOP 900MHZ INTERFERENCE MITIGATION FILTER

The KA-6030 is ideal for co-located 700, 850 and 900 networks. Utilising a 2.6MHz guardband the KA-6030 provides rejection of the 900 UL band while passing 700/850 UL and DL bands. Capable of being used in an outdoor environment the KA-6030 contains two identical bandstop filters, suitable for 2x2 MIMO configuration, offering excellent insertion loss, group delay and rejection.

FEATURES

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



TECHNICAL SPECIFICATIONS

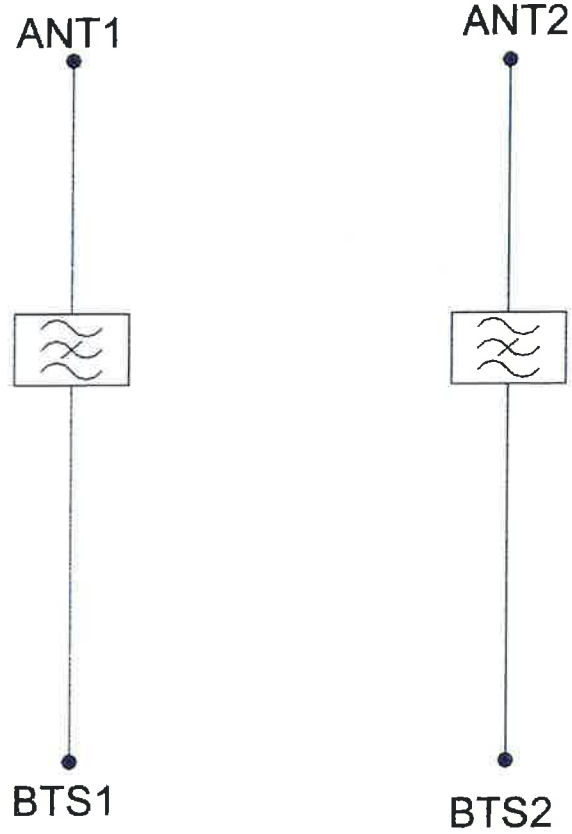
BAND NAME	700 PATH / 850 UPLINK PATH	850 DOWNLINK PATH
Passband	698 - 849MHz	869 - 891.5MHz
Insertion loss	0.1dB typical / 0.3dB maximum	0.5dB typical, 1.45dB maximum
Return loss	24dB typical, 18dB minimum	
Maximum input power (Per Port)	100W average	200W average and 66W per 5MHz
Rejection	53dB minimum @ 894.1 - 896.5MHz	
ELECTRICAL		
Impedance	50Ohms	
Intermodulation products	-160dBc maximum in UL Band (assuming 20MHz Signal), with 2 x 43dBm carriers -153dBc maximum with 2 x 43dBm	
DC / AISG		
Passband	0 - 13MHz	
Insertion loss	0.3dB maximum	
Return loss	15dB minimum	
Input voltage range	± 33V	
DC current rating	2A continuous, 4A peak	
Compliance	3GPP TS 25.461	
ENVIRONMENTAL		
For further details of environmental compliance, please contact Kaelus.		
Temperature range	-20°C to +60°C -4°F to +140°F	
Ingress protection	IP67	
Altitude	2600m 8530ft	
Lightning protection	RF port: ±5kA maximum (8/20us), IEC 61000-4-5 – Unit must be terminated with some lightning protection circuits.	
MTBF	>1,000,000 hours	
Compliance	ETSI EN 300 019 class 4.1H, RoHS, NEBS GR-487-CORE	

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

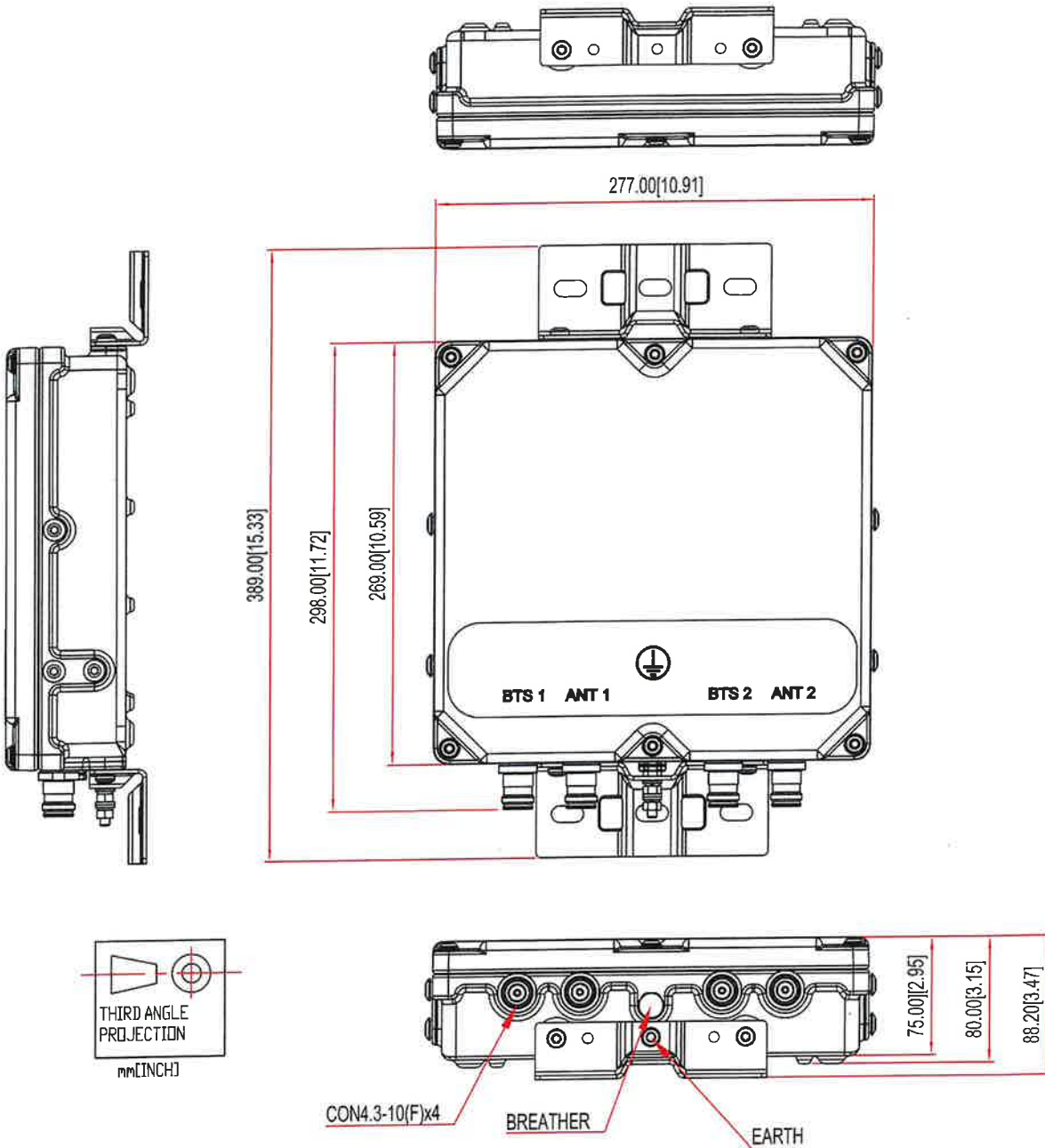
ORDERING INFORMATION

PART NUMBER	CONFIGURATION	OPTIONAL FEATURES	CONNECTORS
KA-6030-2032	TWIN, 2 in / 2 out	DC/AISG PASS	4.3-10 (F)

ELECTRICAL BLOCK DIAGRAM



MECHANICAL BLOCK DIAGRAM



ATTACHMENT 3

Structural Analysis Report

Location Code: 469060
Site Name: Woodbridge North CT
FUZE Project ID: 17123839
Project Name: RF Filter Add
Address: 6 Progress Ave
Seymour, CT 06483

Client:

verizon ✓

**20 ALEXANDER DRIVE
WALLINGFORD, CT 06492**

Date: 08/11/2023



Scope of Work:

Centerline Communications was authorized by Verizon Wireless to perform an analysis of the existing 280 ft. self-support tower to determine its capacity to support the existing and proposed equipment listed in this report.

Existing & Proposed Equipment:

Carrier	Mounting Level (ft)	Center Line Elevation (ft)	Number of Appurtenances	Antenna Manufacturer	Appurtenance Model	Feed Lines (in)
-	280.0	280.0	1	Decibel	DB420-A	(4) 1-5/8
			1	Decibel	DB586-XC	
			1	-	22 ft Halo Mount	
T-Mobile	250.0	250.0	3	Ericsson	AIR32 B66A B2A	(9) 1-5/8 (3) 6x12 HCS
			3	RFS	APXVAARR24_43-U-NA20	
			3	Ericsson	AIR 6488 B41	
			3	Ericsson	4449 B71/B12	
			3	Ericsson	4415 B25	
			3	-	15 ft T-Frame Sector Mount	
-	235.0	245.0	1	Decibel	DB420-A	-
		235.0	1	Decibel	DB225-2-F	
			1	-	22 ft Halo Mount	
-	200.0	200.0	9	Decibel	DB980H120E-M	(9) 1-5/8
			3	-	10 ft T-Frame Sector Mount	
-	190.0	190.0	9	Decibel	DB980H120E-M	(9) 1-5/8
			3	-	10 ft T-Frame Sector Mount	
-	180.0	180.0	9	Decibel	DB980H120E-M	(9) 1-5/8
			3	-	10 ft T-Frame Sector Mount	
-	170.0	170.0	3	RFS	APXVSP18-C-A20	(3) 1-5/8 (1) 1-1/4 Hybriflex
			3	RFS	APXVTM14-C-120	
			3	Alcatel Lucent	FD-RRH-2x50-800	
			3	Alcatel Lucent	FD-RRH-4x40-1900	
			3	Alcatel Lucent	TD-RRH8x20-25	
			3	-	15 ft T-Frame Sector Mount	

-	160.0	160.0	3	Kathrein	800 10121	(6) 1-5/8 (1) Fiber (2) DC
			3	CCI	HPA65R-BU6A	
			3	Quintel	QS66512-3	
			3	Ericsson	RRUS-11	
			3	Ericsson	RRUS-32	
			3	Ericsson	RRUS-32 B2	
			3	Ericsson	4478 B5	
			3	Ericsson	4478 B14	
			3	Ericsson	4426 B66	
			6	Powerwave	LGP21401	
			3	Raycap	DC6-48-60-18-8F	
			1	-	15' Low Profile Platform	
-	150.0	150.0	3	RFS	APXV18-206517S-C	(6) 1-5/8
			3	-	12.5 ft Sector Mount	
Verizon Wireless	140.0	140.0	6	Antel	LPA-80063/6CF	(12) 1-5/8 (2) 6x12
			6	JMA	MX06FRO660-03	
			3	Samsung	MT6407-77A	
			3	Samsung	B2/B66A RRH BR049	
			3	Samsung	B5/B13 RRH BR04C	
			2	Raycap	RRFDC-3315-PF-48	
			2	Kaelus	KA-6030	
			1	Site Pro 1	P/N RRUDSM Dual Swivel Mount	
3	Site Pro 1	P/N VFA12-HD Sector Frame				

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

Design Criteria:

Design Codes:

2022 Connecticut State Building Code
2021 International Building Code
ASCE 7-16
TIA-222-H Standards

Basic Design Wind Speed (V)	120 mph
Wind Speed with Ice	50 mph
Ice Thickness	1.00 in.
Exposure Category	B
Topographic Category	1
Risk Category	II
Site Soil Class (Assumed)	D – Stiff Soil
Seismic Design Category	B
Spectral Response Acceleration Parameter at a Short Periods, S_s	0.200 g
Spectral Response Acceleration Parameter at a Period of 1 Second, S_1	0.054 g
Short Period Site Coefficient, F_a	1.60
Long Period Site Coefficient, F_v	2.40

***Refer to calculations for additional design criteria.**

Conclusion:

Tower Section Capacity (Summary)

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail
T1	280 - 270	Leg	1 3/4	2	-7265.98	81928.90	8.9	Pass
T2	270 - 250	Leg	2	41	-24967.20	111479.00	22.4	Pass
T3	250 - 230	Leg	2 1/2	107	-65465.90	189738.00	34.5	Pass
T4	230 - 220	Leg	Pirod 105245	171	-71868.80	214859.00	33.4	Pass
T5	220 - 200	Leg	Pirod 105218	179	-97244.90	300681.00	32.3	Pass
T6	200 - 180	Leg	Pirod 105218	194	-122375.00	300681.00	40.7	Pass
T7	180 - 160	Leg	Pirod 105219	215	-155746.00	399868.00	38.9	Pass
T8	160 - 140	Leg	Pirod 105220	236	-197293.00	512375.00	38.5	Pass
T9	140 - 120	Leg	Pirod 105220	254	-240987.00	512375.00	47.0	Pass
T10	120 - 100	Leg	Pirod 112743	269	-268682.00	613145.00	43.8	Pass
T11	100 - 80	Leg	Pirod 112743	278	-312565.00	613145.00	51.0	Pass
T12	80 - 60	Leg	Pirod 112744	287	-352750.00	741993.00	47.5	Pass
T13	60 - 40	Leg	Pirod 112744	296	-390363.00	741993.00	52.6	Pass
T14	40 - 20	Leg	Pirod 112745	306	-431195.00	883145.00	48.8	Pass
T15	20 - 0	Leg	Pirod 112740	315	-463501.00	883145.00	52.5	Pass
T1	280 - 270	Diagonal	7/8	14	-1600.24	7867.56	20.3	Pass
T2	270 - 250	Diagonal	7/8	52	-2170.03	7785.80	27.9	Pass
T3	250 - 230	Diagonal	1	115	-4580.67	13514.20	33.9	Pass
T4	230 - 220	Diagonal	L2 1/2x2 1/2x3/16	174	-4878.94	17325.70	28.2 46.3 (b)	Pass
T5	220 - 200	Diagonal	L3x3x3/16	183	-4607.10	22519.40	20.5 42.1 (b)	Pass
T6	200 - 180	Diagonal	L3x3x3/16	204	-7101.58	18973.80	37.4 59.9 (b)	Pass
T7	180 - 160	Diagonal	L3x3x3/16	227	-8164.98	15300.10	53.4 69.3 (b)	Pass
T8	160 - 140	Diagonal	L3 1/2x3 1/2x5/16	245	-8793.97	31750.90	27.7 43.1 (b)	Pass
T9	140 - 120	Diagonal	L3 1/2x3 1/2x5/16	266	-10915.40	28578.70	38.2 49.9 (b)	Pass
T10	120 - 100	Diagonal	2L3 1/2x3 1/2x5/16	275	-15768.90	66615.20	23.7	Pass
T11	100 - 80	Diagonal	2L3 1/2x3 1/2x5/16	284	-15084.30	61155.60	24.7	Pass
T12	80 - 60	Diagonal	2L3 1/2x3 1/2x5/16	293	-14827.00	56125.60	26.4	Pass
T13	60 - 40	Diagonal	2L3 1/2x3 1/2x5/16	302	-16382.00	51524.50	31.8	Pass
T14	40 - 20	Diagonal	2L3 1/2x3 1/2x5/16	312	-14930.30	47337.80	31.5	Pass
T15	20 - 0	Diagonal	2L3 1/2x3 1/2x5/16	320	-18661.00	43541.90	42.9	Pass
T1	280 - 270	Horizontal	7/8	32	-149.23	3909.80	3.8	Pass
T2	270 - 250	Horizontal	7/8	57	-456.35	3943.57	11.6	Pass
T3	250 - 230	Horizontal	7/8	127	-1185.69	4012.46	29.6	Pass
T1	280 - 270	Top Girt	1	5	-638.09	6669.94	9.6	Pass
T2	270 - 250	Top Girt	1	43	-729.81	6727.56	10.8	Pass
T3	250 - 230	Top Girt	1 1/4	109	-1345.73	16711.60	8.1	Pass
T6	200 - 180	Top Girt	L3x3x3/16	198	-2479.58	17315.60	14.3 31.1 (b)	Pass
T7	180 - 160	Top Girt	L4x4x1/4	219	-3147.40	32919.50	9.6 25.3 (b)	Pass
T8	160 - 140	Top Girt	L3 1/2x3 1/2x5/16	238	-3421.47	17588.40	19.5	Pass
T1	280 - 270	Bottom Girt	1	9	-624.02	6669.94	9.4	Pass
T2	270 - 250	Bottom Girt	1	45	-836.61	6727.56	12.4	Pass
T3	250 - 230	Bottom Girt	1 1/4	112	-1192.00	16711.60	7.1	Pass
T1	280 - 270	Mid Girt	1	10	92.52	35342.90	0.3	Pass
T2	270 - 250	Mid Girt	1	48	-164.55	6727.56	2.4	Pass
T6	200 - 180	Mid Girt	L3x3x3/16	201	-2887.97	13093.10	22.1 38.0 (b)	Pass
T7	180 - 160	Mid Girt	L4x4x1/4	222	-2581.63	26421.20	9.8 21.2 (b)	Pass
							Summary	

						Leg (T13)	52.6	Pass
						Diagonal (T7)	69.3	Pass
						Horizontal (T3)	29.6	Pass
						Top Girt (T6)	31.1	Pass
						Bottom Girt (T2)	12.4	Pass
						Mid Girt (T6)	38.0	Pass
						Bolt Checks	69.3	Pass
						Anchor Rods	53.4	Pass
						RATING =	69.3	Pass

Structure Rating (Max From All Components) =	69.3%
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Foundation Capacity (Summary)

Component	% Capacity	Pass Fail
Foundation – Soil Rating	52.5	Pass
Foundation – Structural Rating	25.3	Pass

Foundation Rating (Max From All Components) =	52.5%
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Recommendations:

The existing tower and its foundation have sufficient capacity to support the existing and proposed loading for the final loading configuration. Modifications to the existing tower are not required.

Reference Documents:

- Construction Drawings by NB+C, dated May 18, 2022
- Structural Analysis Report by NB+C, dated May 18, 2022
- Mount Analysis Report by Maser Consulting, dated April 12, 2022

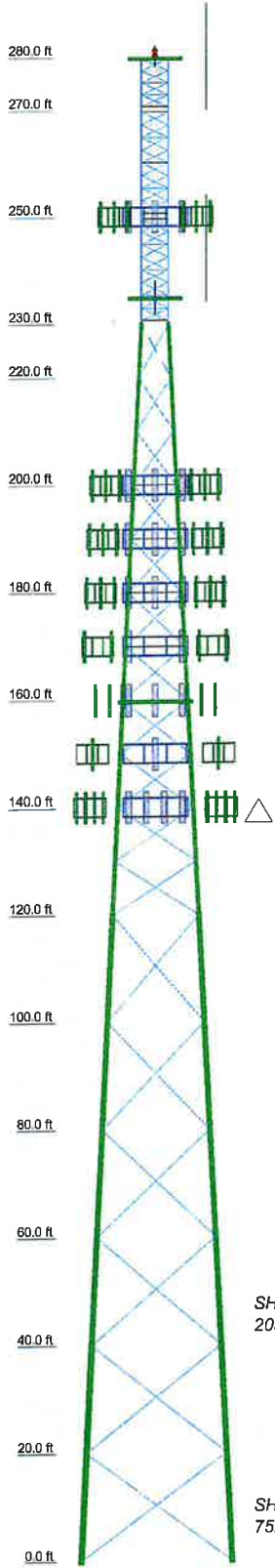
Assumptions and Limitations:

- The tower and structures were built and maintained with the manufacturer's specifications.
 - The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in this report and the referenced drawings.
 - Existing appurtenance information obtained from Structural Analysis Report by NB+C, dated May 18, 2022 and the Construction Drawings by NB+C, dated May 18, 2022.
- 

Design Calculations



Section	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12	T13	T14	T15
Legs	SR 1 3/4	SR 2	SR 2 1/2	A	P1rod 105218	P1rod 105219	P1rod 105220	P1rod 112743	P1rod 112745	P1rod 112744	P1rod 112745	P1rod 112744	P1rod 112745	P1rod 112745	P1rod 112740
Leg Grade															
Diagonals	SR 7/8	SR 1	SR 1 1/4	B	L3x3x3/16	L3x3x3/16	L3x3x3/16	L3x3x3/16	L3x3x3/16	L3x3x3/16	L3x3x3/16	L3x3x3/16	L3x3x3/16	L3x3x3/16	L3x3x3/16
Diagonal Grade															
Top Girts	A572-50	SR 1 1/4	SR 1 1/4	N.A.	L4x4x1/4	L4x4x1/4	L4x4x1/4	L4x4x1/4	L4x4x1/4	L4x4x1/4	L4x4x1/4	L4x4x1/4	L4x4x1/4	L4x4x1/4	L4x4x1/4
Mid Girts		SR 1	SR 1	N.A.	L3x3x3/16	L3x3x3/16	L3x3x3/16	L3x3x3/16	L3x3x3/16	L3x3x3/16	L3x3x3/16	L3x3x3/16	L3x3x3/16	L3x3x3/16	L3x3x3/16
Bottom Girts		SR 1 1/4	SR 1 1/4	N.A.	L3x3x3/16	L3x3x3/16	L3x3x3/16	L3x3x3/16	L3x3x3/16	L3x3x3/16	L3x3x3/16	L3x3x3/16	L3x3x3/16	L3x3x3/16	L3x3x3/16
Horizontals		SR 7/8	SR 7/8												
Face Width (ft)	4 @ 2.25	16 @ 2.375	16 @ 2.375	6	8	10 @ 10	11 @ 10	12	14	16	16	20	22	24	26
# Panels @ (ft)															
Weight (lb) 72554.3	655.5	1565.7	1999.2	2181.1	2947.7	3792.2	4894.8	4747.5	7076.4	7189.5	7395.5	8851.8	9811.2	9140.9	



SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	P1rod 105245	C	L3 1/2x3 1/2x5/16
B	L2 1/2x2 1/2x3/16		

MATERIAL STRENGTH

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

TOWER DESIGN NOTES

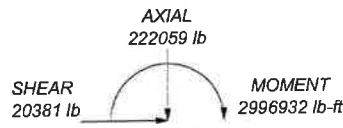
1. Tower is located in New Haven County, Connecticut.
2. Tower designed for Exposure B to the TIA-222-H Standard.
3. Tower designed for a 120 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 69.3%

ALL REACTIONS
ARE FACTORED

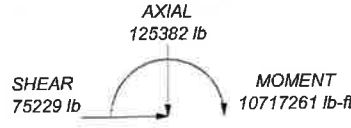
MAX. CORNER REACTIONS AT BASE:

DOWN: 483766 lb
SHEAR: 50802 lb

UPLIFT: -397155 lb
SHEAR: 42949 lb



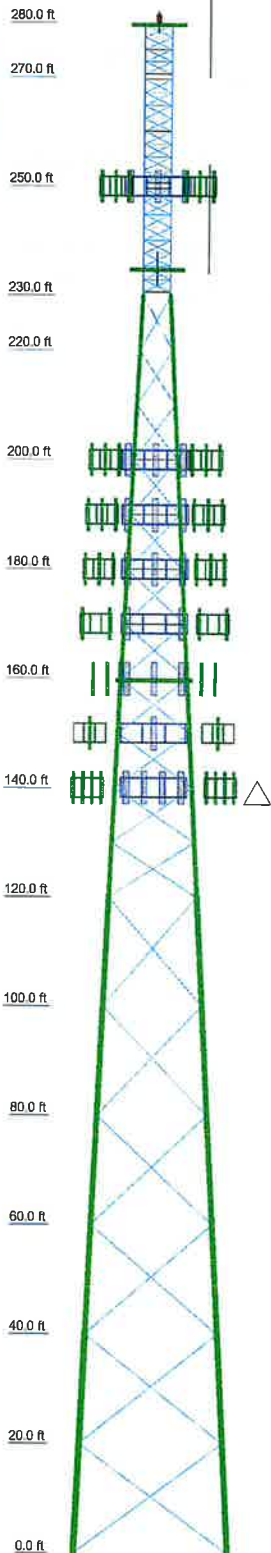
TORQUE 11210 lb-ft
50 mph WIND - 1.000 in ICE



TORQUE 47667 lb-ft
REACTIONS - 120 mph WIND

Centerline Communications		Job: Woodbridge North CT	
750 West Center Street, Suite 301		Project: RF Filter Add	
West Bridgewater, MA 02379		Client: Verizon Wireless	Drawn by: Arielle Novak
Phone: 781-713-4725		Date: 08/11/23	App'd:
FAX:		Code: TIA-222-H	Scale: NTS
		Path:	Dwg No. E-1

Section	115	114	113	112	111	110	109	108	107	106	105	104	103	102	101
Legs	Pirod 112740	Pirod 112745	Pirod 112744	Pirod 112743	Pirod 112743	Pirod 105220	Pirod 105219	Pirod 105218	A	SR 2 1/2	SR 1 3/4	SR 2	SR 1 3/4	SR 2	SR 1 3/4
Leg Grade						A572-50									
Diagonals						L3 1/2x3 1/2x5/16									
Diagonal Grade						A36									
Top Girts															
Mid Girts															
Bottom Girts															
Horizontals															
Face Width (ft)	26	24	22	20	20	20	20	20	20	20	20	20	20	20	20
# Panels @ (ft)			6 @ 20												
Weight (lb) 72554.3	9146.9	9011.7	8501.8	7926.5	7180.5	7005.4	6844.3	6702.2	6560.1	6417.7	6275.1	6132.6	5990.1	5847.6	5705.1



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
Beacon	280	QS66512-3 w/ MP	160
Lightning Rod 5/8x6'	280	QS66512-3 w/ MP	160
DB420-A	280	RRUS 11	160
DB586-XC	280	RRUS 11	160
Sector Mount	280	RRUS 11	160
APXVAARR24_43-U-NA20 w/ MP (T-Mobile)	250	RRUS 32	160
APXVAARR24_43-U-NA20 w/ MP (T-Mobile)	250	RRUS 32	160
APXVAARR24_43-U-NA20 w/ MP (T-Mobile)	250	RRUS 32 B2	160
AIR32 B66A/B2A w/ MP (T-Mobile)	250	RRUS 32 B2	160
AIR32 B66A/B2A w/ MP (T-Mobile)	250	RRUS 32 B2	160
AIR 6468 B41 w/ MP (T-Mobile)	250	RRUS 4478 B5	160
AIR 6468 B41 w/ MP (T-Mobile)	250	RRUS 4478 B5	160
AIR 6468 B41 w/ MP (T-Mobile)	250	RRUS 4478 B5	160
AIR 6468 B41 w/ MP (T-Mobile)	250	RRUS 4478 B14	160
AIR 6468 B41 w/ MP (T-Mobile)	250	RRUS 4478 B14	160
AIR 6468 B41 w/ MP (T-Mobile)	250	RRUS 4478 B14	160
RADIO 4449 B12/B71 (T-Mobile)	250	RRUS 4478 B14	160
RADIO 4449 B12/B71 (T-Mobile)	250	RRUS 4426 B66	160
RADIO 4415 B25 (T-Mobile)	250	RRUS 4426 B66	160
RADIO 4415 B25 (T-Mobile)	250	(2) LGP21401	160
RADIO 4415 B25 (T-Mobile)	250	(2) LGP21401	160
RADIO 4415 B25 (T-Mobile)	250	(2) LGP21401	160
Sector Mount (T-Mobile)	250	(2) LGP21401	160
Sector Mount	235	DC6-48-60-18-8F	160
DB420-A	235	DC6-48-60-18-8F	160
DB586-XC	235	DC6-48-60-18-8F	160
(3) DB980H120D-M w/ MP	200	Sector Mount	160
(3) DB980H120D-M w/ MP	200	APXV18-206517S-C w/ MP	150
(3) DB980H120D-M w/ MP	200	APXV18-206517S-C w/ MP	150
(3) DB980H120D-M w/ MP	200	APXV18-206517S-C w/ MP	150
Sector Mount	200	Sector Mount	150
(3) DB980H120D-M w/ MP	190	Sector Mount	150
(3) DB980H120D-M w/ MP	190	(2) MX06FRO660-03 w/ MP (Verizon Wireless)	140
(3) DB980H120D-M w/ MP	190	(2) MX06FRO660-03 w/ MP (Verizon Wireless)	140
(3) DB980H120D-M w/ MP	190	(2) MX06FRO660-03 w/ MP (Verizon Wireless)	140
(3) DB980H120D-M w/ MP	190	(2) MX06FRO660-03 w/ MP (Verizon Wireless)	140
Sector Mount	190	L-Sub6 Antenna w/ MP (Verizon Wireless)	140
(3) DB980H120D-M w/ MP	180	L-Sub6 Antenna w/ MP (Verizon Wireless)	140
(3) DB980H120D-M w/ MP	180	L-Sub6 Antenna w/ MP (Verizon Wireless)	140
(3) DB980H120D-M w/ MP	180	L-Sub6 Antenna w/ MP (Verizon Wireless)	140
Sector Mount	180	RFV01U-D1A (Verizon Wireless)	140
APXVSP18-C-A20 w/ MP	170	RFV01U-D1A (Verizon Wireless)	140
APXVSP18-C-A20 w/ MP	170	RFV01U-D1A (Verizon Wireless)	140
APXVTM14-C-I20 w/ MP	170	RFV01U-D2A (Verizon Wireless)	140
APXVTM14-C-I20 w/ MP	170	RFV01U-D2A (Verizon Wireless)	140
APXVTM14-C-I20 w/ MP	170	RFV01U-D2A (Verizon Wireless)	140
FD-RRH-2x50-800	170	RFV01U-D2A (Verizon Wireless)	140
FD-RRH-2x50-800	170	RFV01U-D2A (Verizon Wireless)	140
FD-RRH-2x50-800	170	RFV01U-D2A (Verizon Wireless)	140
1900MHZ 4X40W RRH	170	(2) LPA-80063/6CF w/ MP (Verizon Wireless)	140
1900MHZ 4X40W RRH	170	(2) LPA-80063/6CF w/ MP (Verizon Wireless)	140
1900MHZ 4X40W RRH	170	(2) LPA-80063/6CF w/ MP (Verizon Wireless)	140
TD-RRH8X20-25	170	RxxDC-3315-PF-48 (Verizon Wireless)	140
TD-RRH8X20-25	170	RxxDC-3315-PF-48 (Verizon Wireless)	140
TD-RRH8X20-25	170	RxxDC-3315-PF-48 (Verizon Wireless)	140
Sector Mount	170	Sector Mount (Verizon Wireless)	140
800 10121 w/ MP	160	(2) Kaelus KA-6030 (Verizon Wireless)	140
800 10121 w/ MP	160	Site Pro 1 P/N RRU DSM (Verizon Wireless)	140
800 10121 w/ MP	160		
HPA65R-BU6A w/ MP	160		
HPA65R-BU6A w/ MP	160		
HPA65R-BU6A w/ MP	160		
QS66512-3 w/ MP	160		

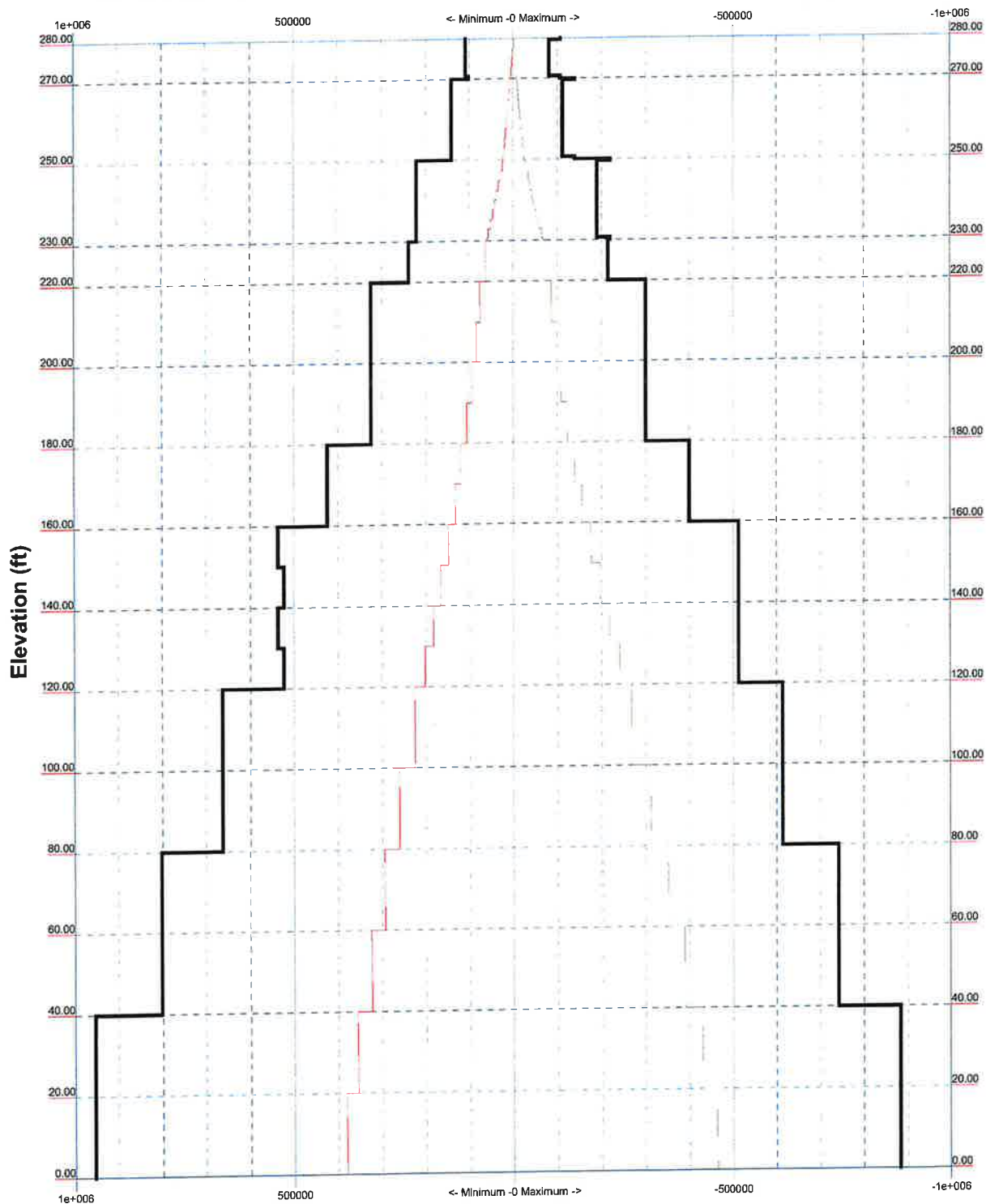
SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	Pirod 105245	C	L3 1/2x3 1/2x5/16
B	L2 1/2x2 1/2x3/16		

Centerline Communications		Job: Woodbridge North CT	
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West Bridgewater, MA 02379		Client: Verizon Wireless	Drawn by: Arielle Novak
Phone: 781-713-4725		Code: TIA-222-H	Date: 08/11/23
FAX:		Path:	Scale: NTS
		Dwg No. E-1	

TIA-222-H - 120 mph/50 mph 1.000 in Ice Exposure B

Leg Capacity ——— Leg Compression (lb)



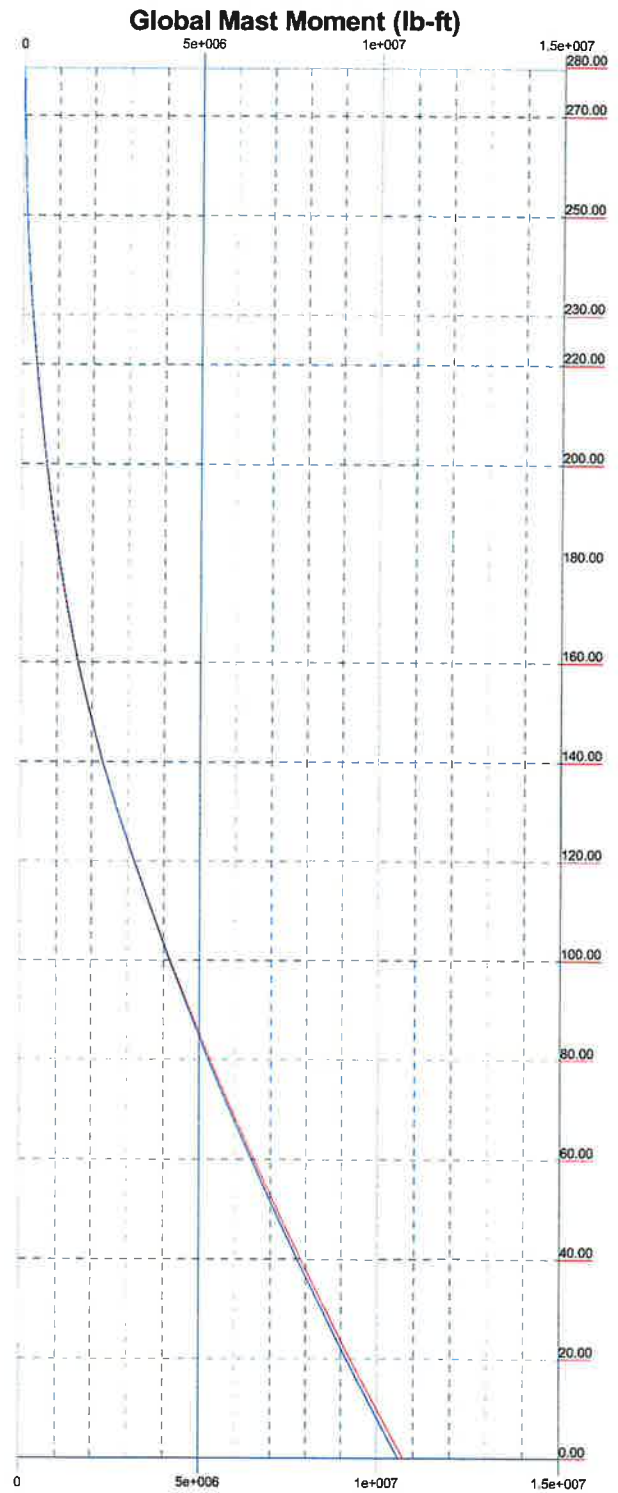
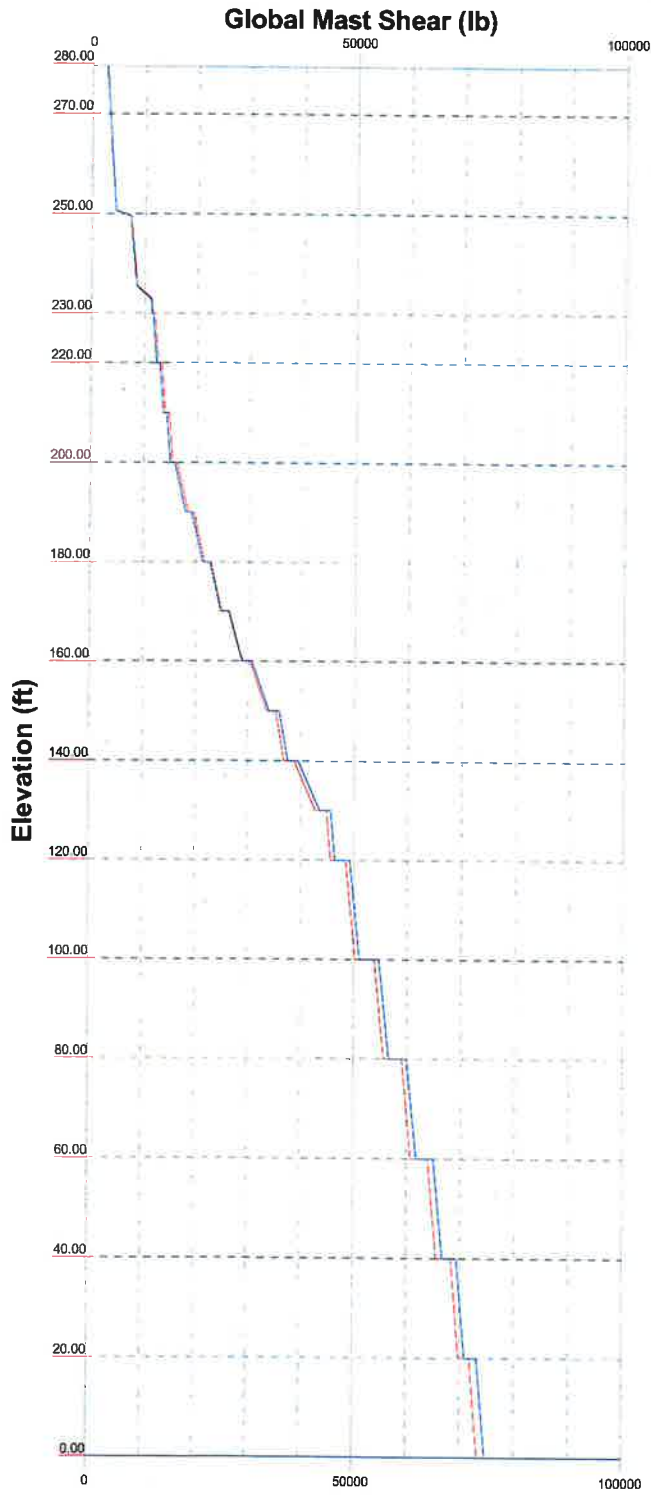
Centerline Communications		Job: Woodbridge North CT	
750 West Center Street, Suite 301			
West Bridgewater, MA 02379			
Phone: 781-713-4725			
FAX:			
Project: RF Filter Add	Client: Verizon Wireless	Drawn by: Arielle Novak	App'd:
Code: TIA-222-H	Date: 08/11/23	Scale: NTS	
Path:			Dwg No. E-3

TIA-222-H - 120 mph/50 mph 1.000 in Ice Exposure B

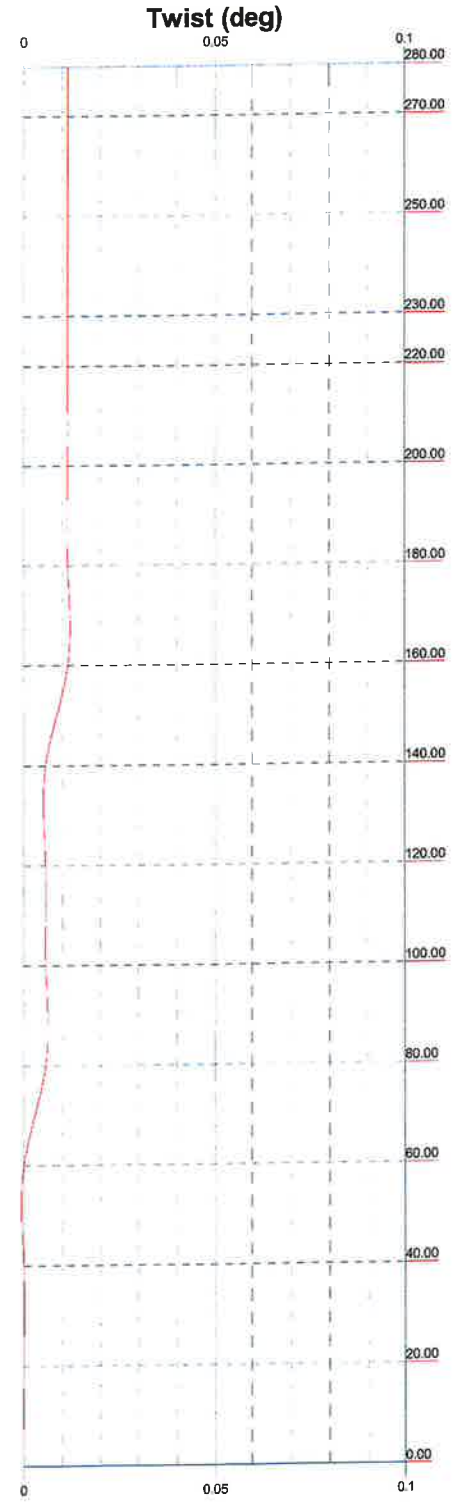
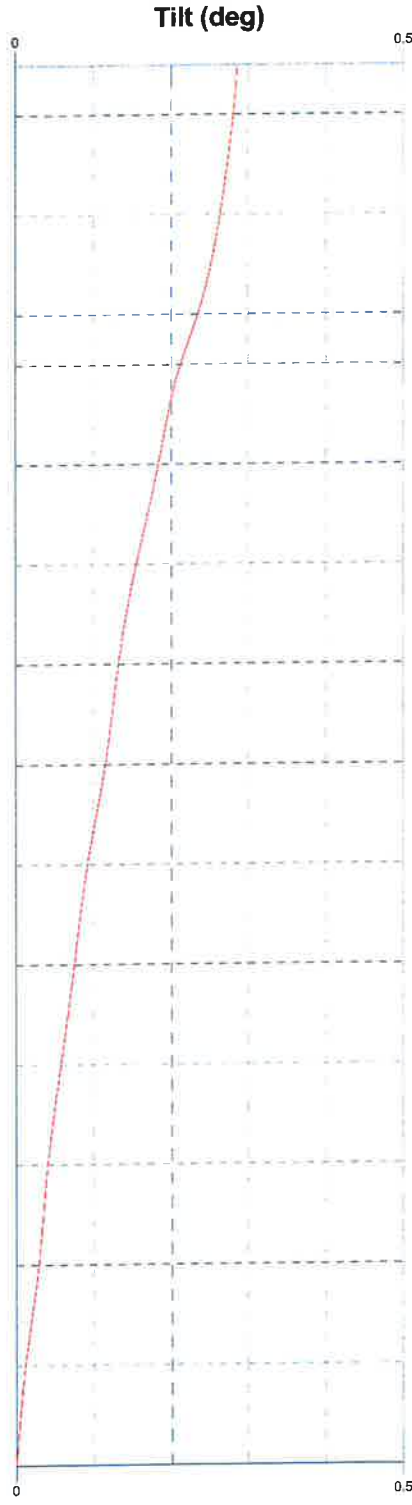
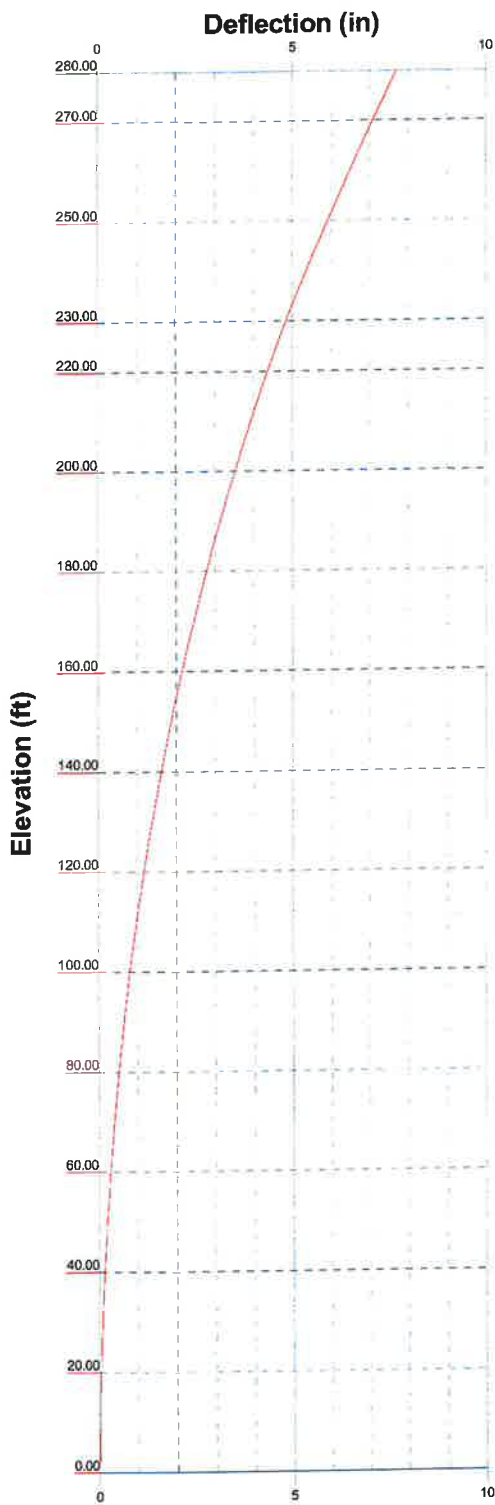
Maximum Values

Vx Vz

Mx Mz



Centerline Communications		Job: Woodbridge North CT	
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West Bridgewater, MA 02379		Client: Verizon Wireless	Drawn by: Arielle Novak
Phone: 781-713-4725		Code: TIA-222-H	Date: 08/11/23
FAX:		Path:	Scale: NTS
		Dwg No. E-4	



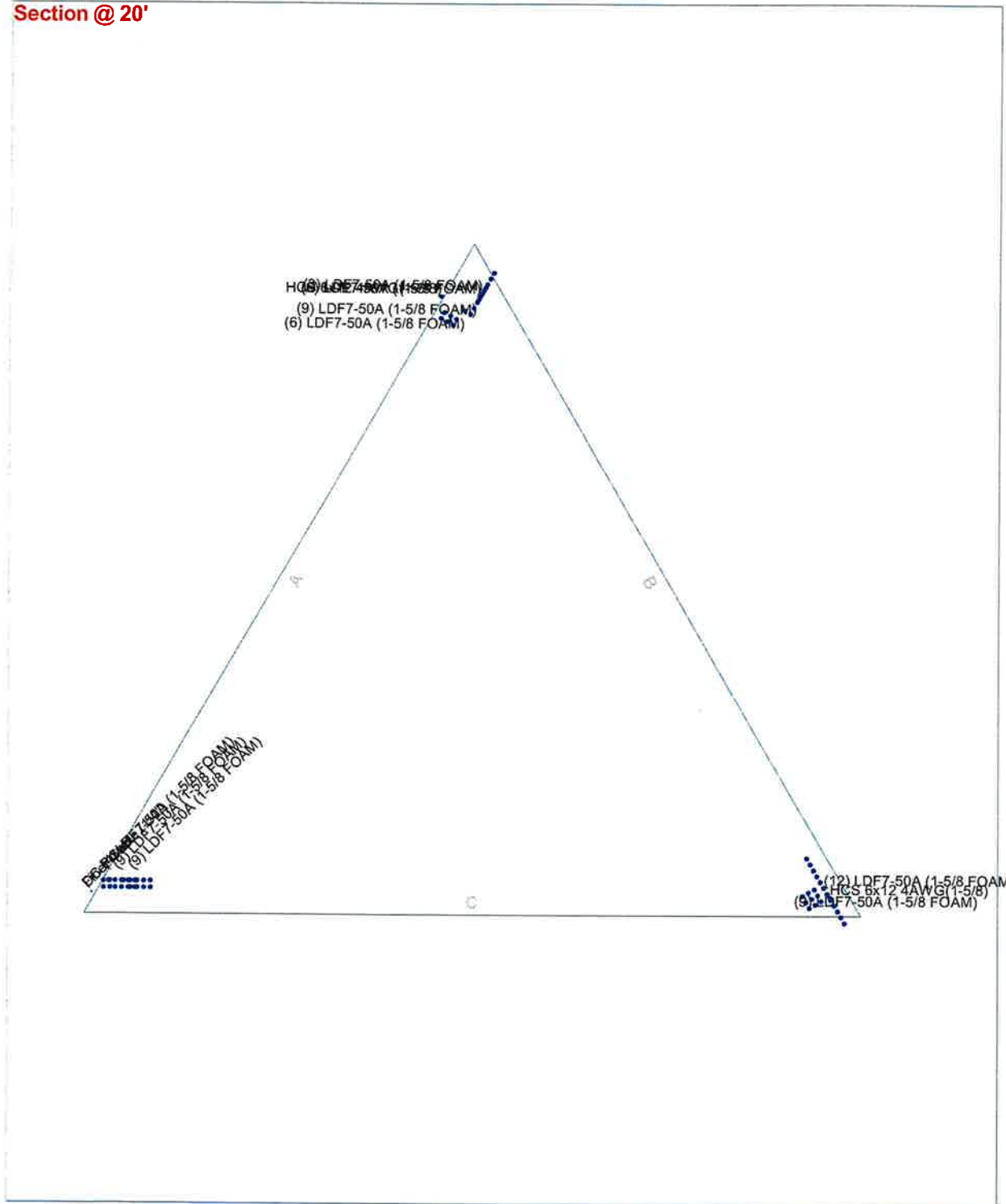
Centerline Communications		Job: Woodbridge North CT	
750 West Center Street, Suite 301		Project: RF Filter Add	
West Bridgewater, MA 02379		Client: Verizon Wireless	Drawn by: Arielle Novak
Phone: 781-713-4725		Code: TIA-222-H	Date: 08/11/23
FAX:		Path:	App'd:
			Scale: NTS
			Dwg No: E-5

Feed Line Plan

20'

Round
Flat
App In Face
App Out Face
Truss-Leg

Section @ 20'

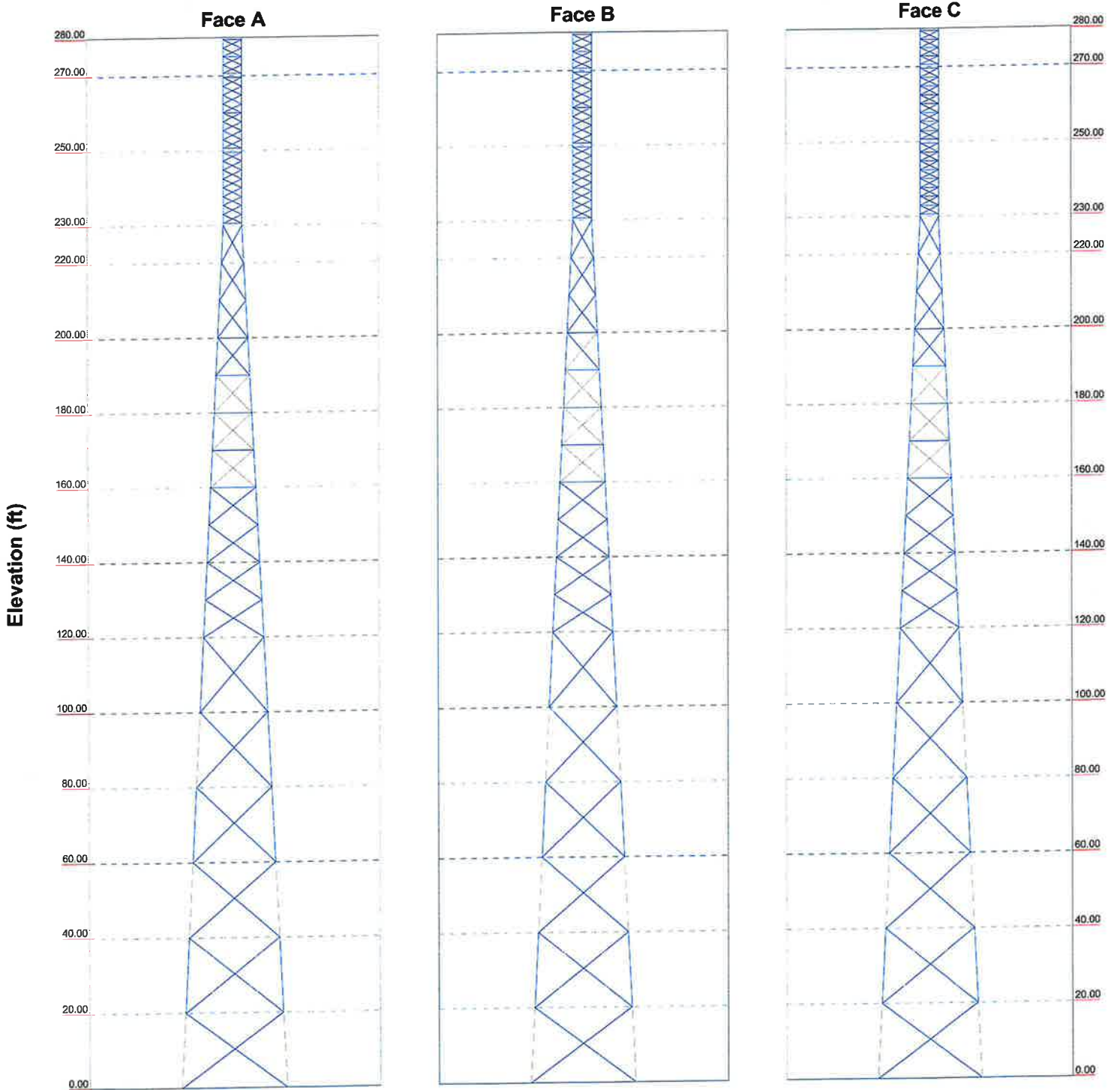


Centerline Communications		Job: Woodbridge North CT	
750 West Center Street, Suite 301		Project: RF Filter Add	
West Bridgewater, MA 02379		Client: Verizon Wireless	Drawn by: Arielle Novak
Phone: 781-713-4725		Code: TIA-222-H	Date: 08/11/23
FAX:		Path:	App'd:
			Scale: NTS
			Dwg No. E-7

Stress Distribution Chart

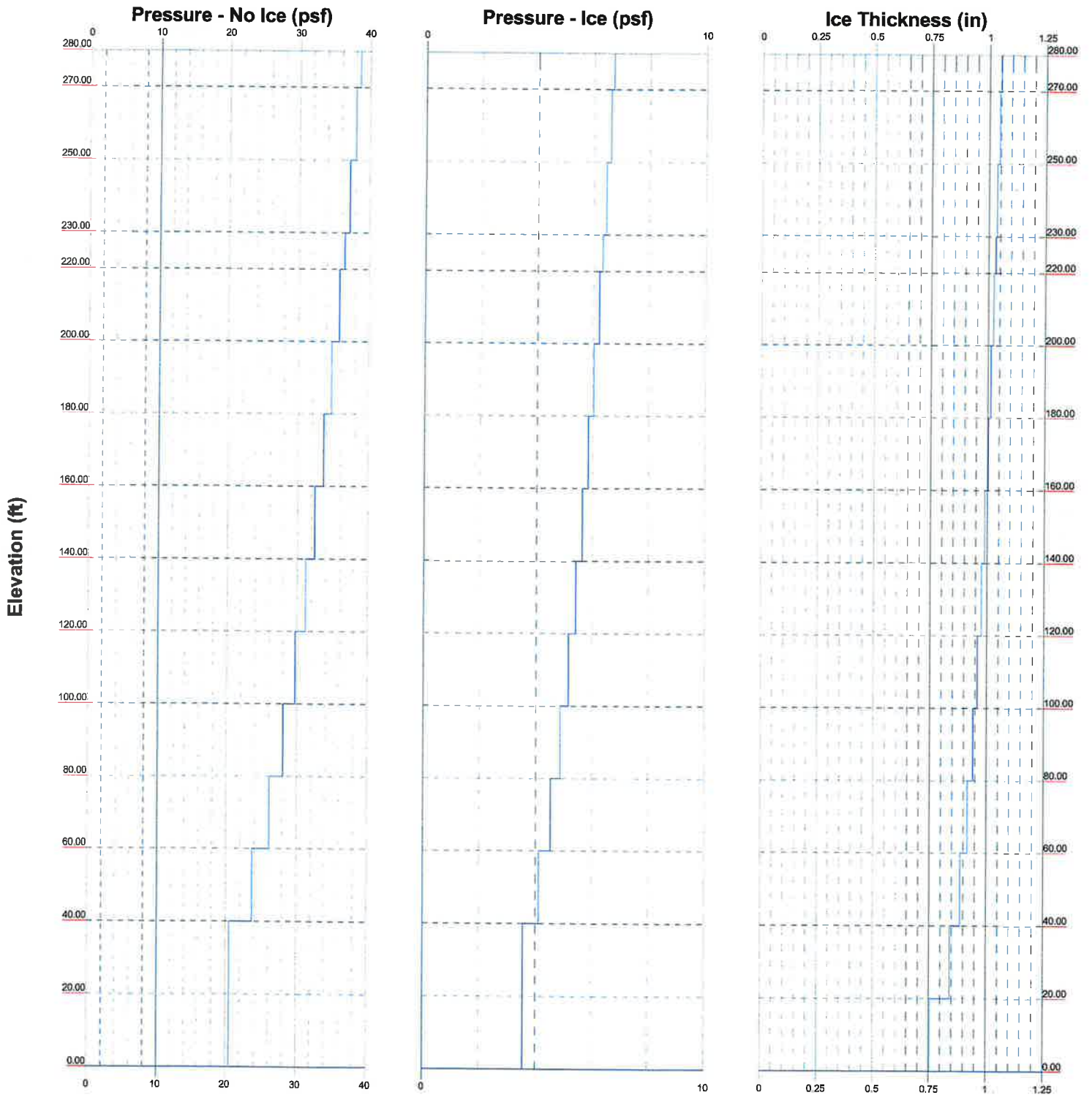
0' - 280'

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



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FAX:			
Project: RF Filter Add		Client: Verizon Wireless	
Code: TIA-222-H		Date: 08/11/23	
Path:		Drawn by: Arielle Novak	
		App'd:	
		Scale: NTS	
		Dwg No. E-8	

Wind Pressures and Ice Thickness
TIA-222-H - 120 mph/50 mph 1.000 in Ice Exposure B



Centerline Communications		Job: Woodbridge North CT	
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West Bridgewater, MA 02379		Client: Verizon Wireless	Drawn by: Arielle Novak
Phone: 781-713-4725		Code: TIA-222-H	Date: 08/11/23
FAX:		Path:	App'd:
			Scale: NTS
			Dwg No. E-9

tnxTower Centerline Communications 750 West Center Street, Suite 301 West Bridgewater, MA 02379 Phone: 781-713-4725 FAX:	Job Woodbridge North CT	Page 1 of 37
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	Client Verizon Wireless	Designed by Arielle Novak

Tower Input Data

The main tower is a 3x free standing tower with an overall height of 280.00 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 5.000 ft at the top and 28.000 ft at the base.
This tower is designed using the TIA-222-H standard.

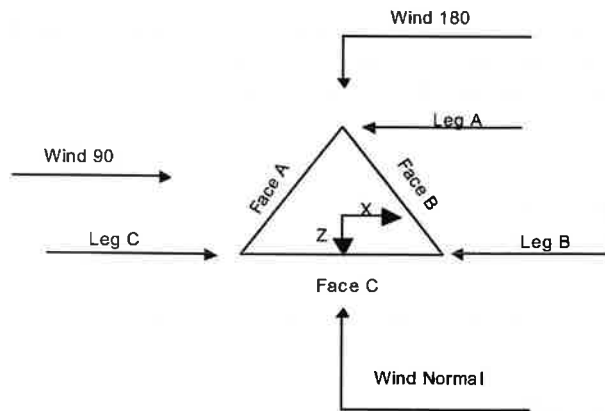
The following design criteria apply:

- Tower is located in New Haven County, Connecticut.
- Tower base elevation above sea level: 472.00 ft.
- Basic wind speed of 120 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 1.000 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"> Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification √ Use Code Stress Ratios Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use Special Wind Profile √ Include Bolts In Member Capacity Leg Bolts Are At Top Of Section √ Secondary Horizontal Braces Leg Use Diamond Inner Bracing (4 Sided) √ SR Members Have Cut Ends SR Members Are Concentric | <ul style="list-style-type: none"> Distribute Leg Loads As Uniform Assume Legs Pinned √ Assume Rigid Index Plate √ Use Clear Spans For Wind Area √ Use Clear Spans For KL/r Retension Guys To Initial Tension √ Bypass Mast Stability Checks √ Use Azimuth Dish Coefficients √ Project Wind Area of Appurt. Autocalc Torque Arm Areas Add IBC .6D+W Combination √ Sort Capacity Reports By Component √ Triangulate Diamond Inner Bracing Treat Feed Line Bundles As Cylinder Ignore KL/ry For 60 Deg. Angle Legs | <ul style="list-style-type: none"> Use ASCE 10 X-Brace Ly Rules √ Calculate Redundant Bracing Forces Ignore Redundant Members in FEA √ SR Leg Bolts Resist Compression All Leg Panels Have Same Allowable Offset Girt At Foundation √ Consider Feed Line Torque √ Include Angle Block Shear Check Use TIA-222-H Bracing Resist. Exemption Use TIA-222-H Tension Splice Exemption <li style="text-align: center;">Poles Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets Pole Without Linear Attachments Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known |
|--|---|---|

tnxTower Centerline Communications 750 West Center Street, Suite 301 West Bridgewater, MA 02379 Phone: 781-713-4725 FAX:	Job Woodbridge North CT	Page 2 of 37
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	Client Verizon Wireless	Designed by Arielle Novak



Triangular Tower

Tower Section Geometry

Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections	Section Length
	<i>ft</i>			<i>ft</i>		<i>ft</i>
T1	280.00-270.00			5.000	1	10.00
T2	270.00-250.00			5.000	1	20.00
T3	250.00-230.00			5.000	1	20.00
T4	230.00-220.00			5.000	1	10.00
T5	220.00-200.00			6.000	1	20.00
T6	200.00-180.00			8.000	1	20.00
T7	180.00-160.00			10.000	1	20.00
T8	160.00-140.00			12.000	1	20.00
T9	140.00-120.00			14.000	1	20.00
T10	120.00-100.00			16.000	1	20.00
T11	100.00-80.00			18.000	1	20.00
T12	80.00-60.00			20.000	1	20.00
T13	60.00-40.00			22.000	1	20.00
T14	40.00-20.00			24.000	1	20.00
T15	20.00-0.00			26.000	1	20.00

Tower Section Geometry (cont'd)

tnxTower Centerline Communications 750 West Center Street, Suite 301 West Bridgewater, MA 02379 Phone: 781-713-4725 FAX:	Job	Woodbridge North CT	Page	3 of 37
	Project	RF Filter Add	Date	09:15:33 08/11/23
	Client	Verizon Wireless	Designed by	Arielle Novak

Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset	Bottom Girt Offset
	ft	ft				in	in
T1	280.00-270.00	2.250	X Brace	No	Steps	5.500	6.500
T2	270.00-250.00	2.375	X Brace	No	Steps	5.500	6.500
T3	250.00-230.00	2.375	X Brace	No	Steps	5.500	6.500
T4	230.00-220.00	10.000	X Brace	No	No	0.000	0.000
T5	220.00-200.00	10.000	X Brace	No	No	0.000	0.000
T6	200.00-180.00	10.000	X Brace	No	No	0.000	0.000
T7	180.00-160.00	10.000	X Brace	No	No	0.000	0.000
T8	160.00-140.00	10.000	X Brace	No	No	0.000	0.000
T9	140.00-120.00	10.000	X Brace	No	No	0.000	0.000
T10	120.00-100.00	20.000	X Brace	No	No	0.000	0.000
T11	100.00-80.00	20.000	X Brace	No	No	0.000	0.000
T12	80.00-60.00	20.000	X Brace	No	No	0.000	0.000
T13	60.00-40.00	20.000	X Brace	No	No	0.000	0.000
T14	40.00-20.00	20.000	X Brace	No	No	0.000	0.000
T15	20.00-0.00	20.000	X Brace	No	No	0.000	0.000

Tower Section Geometry (cont'd)

Tower Elevation	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
ft						
T1 280.00-270.00	Solid Round	1 3/4	A572-50 (50 ksi)	Solid Round	7/8	A572-50 (50 ksi)
T2 270.00-250.00	Solid Round	2	A572-50 (50 ksi)	Solid Round	7/8	A572-50 (50 ksi)
T3 250.00-230.00	Solid Round	2 1/2	A572-50 (50 ksi)	Solid Round	1	A572-50 (50 ksi)
T4 230.00-220.00	Truss Leg	Pirod 105245	A572-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A36 (36 ksi)
T5 220.00-200.00	Truss Leg	Pirod 105218	A572-50 (50 ksi)	Equal Angle	L3x3x3/16	A36 (36 ksi)
T6 200.00-180.00	Truss Leg	Pirod 105218	A572-50 (50 ksi)	Equal Angle	L3x3x3/16	A36 (36 ksi)
T7 180.00-160.00	Truss Leg	Pirod 105219	A572-50 (50 ksi)	Equal Angle	L3x3x3/16	A36 (36 ksi)
T8 160.00-140.00	Truss Leg	Pirod 105220	A572-50 (50 ksi)	Equal Angle	L3 1/2x3 1/2x5/16	A36 (36 ksi)
T9 140.00-120.00	Truss Leg	Pirod 105220	A572-50 (50 ksi)	Equal Angle	L3 1/2x3 1/2x5/16	A36 (36 ksi)
T10 120.00-100.00	Truss Leg	Pirod 112743	A572-50 (50 ksi)	Double Equal Angle	2L3 1/2x3 1/2x5/16	A36 (36 ksi)
T11 100.00-80.00	Truss Leg	Pirod 112743	A572-50 (50 ksi)	Double Equal Angle	2L3 1/2x3 1/2x5/16	A36 (36 ksi)
T12 80.00-60.00	Truss Leg	Pirod 112744	A572-50 (50 ksi)	Double Equal Angle	2L3 1/2x3 1/2x5/16	A36 (36 ksi)
T13 60.00-40.00	Truss Leg	Pirod 112744	A572-50 (50 ksi)	Double Equal Angle	2L3 1/2x3 1/2x5/16	A36 (36 ksi)
T14 40.00-20.00	Truss Leg	Pirod 112745	A572-50 (50 ksi)	Double Equal Angle	2L3 1/2x3 1/2x5/16	A36 (36 ksi)
T15 20.00-0.00	Truss Leg	Pirod 112740	A572-50 (50 ksi)	Double Equal Angle	2L3 1/2x3 1/2x5/16	A36 (36 ksi)

tnxTower Centerline Communications 750 West Center Street, Suite 301 West Bridgewater, MA 02379 Phone: 781-713-4725 FAX:	Job Woodbridge North CT	Page 4 of 37
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	Client Verizon Wireless	Designed by Arielle Novak

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 280.00-270.00	Solid Round	1	A572-50 (50 ksi)	Solid Round	1	A572-50 (50 ksi)
T2 270.00-250.00	Solid Round	1	A572-50 (50 ksi)	Solid Round	1	A572-50 (50 ksi)
T3 250.00-230.00	Solid Round	1 1/4	A572-50 (50 ksi)	Solid Round	1 1/4	A572-50 (50 ksi)
T6 200.00-180.00	Equal Angle	L3x3x3/16	A36 (36 ksi)	Equal Angle		A36 (36 ksi)
T7 180.00-160.00	Equal Angle	L4x4x1/4	A36 (36 ksi)	Equal Angle		A36 (36 ksi)
T8 160.00-140.00	Equal Angle	L3 1/2x3 1/2x5/16	A36 (36 ksi)	Equal Angle		A36 (36 ksi)

Tower Section Geometry (cont'd)

Tower Elevation ft	No. of Mid Girts	Mid Girt Type	Mid Girt Size	Mid Girt Grade	Horizontal Type	Horizontal Size	Horizontal Grade
T1 280.00-270.00	1	Solid Round	1	A572-50 (50 ksi)	Solid Round	7/8	A572-50 (50 ksi)
T2 270.00-250.00	1	Solid Round	1	A572-50 (50 ksi)	Solid Round	7/8	A572-50 (50 ksi)
T3 250.00-230.00	None	Flat Bar		A36 (36 ksi)	Solid Round	7/8	A572-50 (50 ksi)
T6 200.00-180.00	1	Equal Angle	L3x3x3/16	A36 (36 ksi)	Solid Round		A572-50 (50 ksi)
T7 180.00-160.00	1	Equal Angle	L4x4x1/4	A36 (36 ksi)	Solid Round		A572-50 (50 ksi)

Tower Section Geometry (cont'd)

Tower Elevation ft	Gusset Area (per face) ft ²	Gusset Thickness in	Gusset Grade	Adjust. Factor A _f	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
280.00-270.00	0.00	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000
270.00-250.00	0.00	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000
250.00-230.00	0.00	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000
230.00-220.00	0.00	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000
220.00-200.00	0.00	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000
T6	0.00	0.000	A36	1	1	1	36.000	36.000	36.000

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Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T11 100.00-80.00	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T12 80.00-60.00	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T13 60.00-40.00	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T14 40.00-20.00	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T15 20.00-0.00	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75

Tower Section Geometry (cont'd)

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T1 280.00-270.00	Flange	0.625	5	0.625	0	0.625	0	0.625	0	0.625	0	0.625	0	0.625	0
T2 270.00-250.00	Flange	0.750	5	0.625	0	0.625	0	0.625	0	0.625	0	0.625	0	0.625	0
T3 250.00-230.00	Flange	1.000	6	1.000	0	1.000	0	0.625	0	0.625	0	0.625	0	0.625	0
T4 230.00-220.00	Flange	1.000	6	1.000	1	1.000	0	0.625	0	0.625	0	0.625	0	0.625	0
T5 220.00-200.00	Flange	1.000	6	1.000	1	1.000	0	0.625	0	0.625	0	0.625	0	0.625	0
T6 200.00-180.00	Flange	1.000	6	1.000	1	1.000	1	0.625	0	1.000	1	0.625	0	0.625	0
T7 180.00-160.00	Flange	1.250	6	1.250	1	1.250	1	0.625	0	1.250	1	0.625	0	0.625	0
T8 160.00-140.00	Flange	1.250	6	1.250	1	1.250	1	0.625	0	0.625	0	0.625	0	0.625	0
T9 140.00-120.00	Flange	1.250	6	1.250	1	0.625	0	0.625	0	0.625	0	0.625	0	0.625	0
T10 120.00-100.00	Flange	1.250	12	1.000	2	0.625	0	0.625	0	0.625	0	0.625	0	0.625	0
T11 100.00-80.00	Flange	1.250	12	1.000	2	0.625	0	0.625	0	0.625	0	0.625	0	0.625	0
T12 80.00-60.00	Flange	1.250	12	1.000	2	0.625	0	0.625	0	0.625	0	0.625	0	0.625	0
T13 60.00-40.00	Flange	1.250	12	1.000	2	0.625	0	0.625	0	0.625	0	0.625	0	0.625	0
T14 40.00-20.00	Flange	1.250	12	1.000	2	0.625	0	0.625	0	0.625	0	0.625	0	0.625	0
T15 20.00-0.00	Flange	0.750	0	1.000	2	0.625	0	0.625	0	0.625	0	0.625	0	0.625	0

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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 FOAM) ***	C	No	No	Ar (CaAa)	280.00 - 12.00	-12.000	0.47	4	2	0.750	1.980		0.820
LDF7-50A (1-5/8 FOAM) ***	A	No	No	Ar (CaAa)	250.00 - 12.00	-12.000	0.45	9	8	0.750	1.980		0.820
HCS 6x12 4AWG(1-5/8) ***	C	No	No	Ar (CaAa)	12.00 - 0.00	-8.000	0.46	3	3	1.660 1.000	1.660		2.400
LDF7-50A (1-5/8 FOAM) ***	B	No	No	Ar (CaAa)	200.00 - 12.00	-15.000	0.45	9	3	0.750	1.980		0.820
LDF7-50A (1-5/8 FOAM) ***	C	No	No	Ar (CaAa)	190.00 - 12.00	-12.000	0.45	9	5	0.750	1.980		0.820
LDF7-50A (1-5/8 FOAM) ***	C	No	No	Ar (CaAa)	180.00 - 12.00	-12.000	0.43	9	5	0.750	1.980		0.820
LDF7-50A (1-5/8 FOAM) ***	A	No	No	Ar (CaAa)	170.00 - 12.00	-12.000	0.45	3	3	0.750	1.980		0.820
HCS 6x12 4AWG(1-5/8) ***	A	No	No	Ar (CaAa)	170.00 - 12.00	0.000	0.42	1	1	1.660 1.000	1.660		2.400
LDF7-50A (1-5/8 FOAM) ***	A	No	No	Ar (CaAa)	160.00 - 12.00	-12.000	0.45	6	6	0.750	1.980		0.820
Fiber Cable (1/4")	C	No	No	Ar (CaAa)	160.00 - 12.00	-8.000	0.49	1	1	0.250	0.250		0.030
DC Power	C	No	No	Ar (CaAa)	160.00 - 12.00	-8.000	0.49	1	1	0.870	0.870		0.150
LDF7-50A (1-5/8 FOAM) ***	A	No	No	Ar (CaAa)	150.00 - 12.00	-8.000	0.4	6	2	0.750	1.980		0.820
LDF7-50A (1-5/8 FOAM) ***	B	No	No	Ar (CaAa)	140.00 - 12.00	-6.000	0.45	12	12	0.750	1.980		0.820
HCS 6x12 4AWG(1-5/8) ***	B	No	No	Ar (CaAa)	140.00 - 12.00	-6.000	0.46	1	1	1.660 1.000	1.660		2.400

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	CAAA ft ² /ft	Weight plf

Feed Line/Linear Appurtenances Section Areas

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Tower Section	Tower Elevation ft	Face	A_R ft ²	A_F ft ²	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight lb
T1	280.00-270.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	7.920	0.000	32.80
T2	270.00-250.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	15.840	0.000	65.60
T3	250.00-230.00	A	0.000	0.000	35.640	0.000	147.60
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	15.840	0.000	65.60
T4	230.00-220.00	A	0.000	0.000	17.820	0.000	73.80
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	7.920	0.000	32.80
T5	220.00-200.00	A	0.000	0.000	35.640	0.000	147.60
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	15.840	0.000	65.60
T6	200.00-180.00	A	0.000	0.000	35.640	0.000	147.60
		B	0.000	0.000	35.640	0.000	147.60
		C	0.000	0.000	33.660	0.000	139.40
T7	180.00-160.00	A	0.000	0.000	43.240	0.000	196.20
		B	0.000	0.000	35.640	0.000	147.60
		C	0.000	0.000	87.120	0.000	360.80
T8	160.00-140.00	A	0.000	0.000	86.480	0.000	392.40
		B	0.000	0.000	35.640	0.000	147.60
		C	0.000	0.000	89.360	0.000	364.40
T9	140.00-120.00	A	0.000	0.000	98.360	0.000	441.60
		B	0.000	0.000	86.480	0.000	392.40
		C	0.000	0.000	89.360	0.000	364.40
T10	120.00-100.00	A	0.000	0.000	98.360	0.000	441.60
		B	0.000	0.000	86.480	0.000	392.40
		C	0.000	0.000	89.360	0.000	364.40
T11	100.00-80.00	A	0.000	0.000	98.360	0.000	441.60
		B	0.000	0.000	86.480	0.000	392.40
		C	0.000	0.000	89.360	0.000	364.40
T12	80.00-60.00	A	0.000	0.000	98.360	0.000	441.60
		B	0.000	0.000	86.480	0.000	392.40
		C	0.000	0.000	89.360	0.000	364.40
T13	60.00-40.00	A	0.000	0.000	98.360	0.000	441.60
		B	0.000	0.000	86.480	0.000	392.40
		C	0.000	0.000	89.360	0.000	364.40
T14	40.00-20.00	A	0.000	0.000	98.360	0.000	441.60
		B	0.000	0.000	86.480	0.000	392.40
		C	0.000	0.000	89.360	0.000	364.40
T15	20.00-0.00	A	0.000	0.000	39.344	0.000	176.64
		B	0.000	0.000	34.592	0.000	156.96
		C	0.000	0.000	41.720	0.000	232.16

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft ²	A_F ft ²	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight lb
T1	280.00-270.00	A	1.051	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	12.041	0.000	151.43
T2	270.00-250.00	A	1.045	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	24.041	0.000	301.78

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Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight lb
T3	250.00-230.00	A	1.037	0.000	0.000	60.340	0.000	714.05
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	23.982	0.000	300.25
T4	230.00-220.00	A	1.030	0.000	0.000	30.149	0.000	355.58
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	11.967	0.000	149.51
T5	220.00-200.00	A	1.023	0.000	0.000	60.254	0.000	708.11
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	23.885	0.000	297.72
T6	200.00-180.00	A	1.013	0.000	0.000	60.191	0.000	703.72
		B		0.000	0.000	33.465	0.000	602.10
		C		0.000	0.000	44.281	0.000	607.10
T7	180.00-160.00	A	1.001	0.000	0.000	76.595	0.000	877.15
		B		0.000	0.000	33.385	0.000	599.11
		C		0.000	0.000	105.458	0.000	1531.99
T8	160.00-140.00	A	0.989	0.000	0.000	152.417	0.000	1726.50
		B		0.000	0.000	33.297	0.000	595.78
		C		0.000	0.000	115.357	0.000	1600.64
T9	140.00-120.00	A	0.975	0.000	0.000	166.438	0.000	1918.42
		B		0.000	0.000	125.884	0.000	1624.44
		C		0.000	0.000	114.959	0.000	1587.87
T10	120.00-100.00	A	0.959	0.000	0.000	165.959	0.000	1898.59
		B		0.000	0.000	125.615	0.000	1609.64
		C		0.000	0.000	114.502	0.000	1573.25
T11	100.00-80.00	A	0.940	0.000	0.000	165.394	0.000	1875.27
		B		0.000	0.000	125.299	0.000	1592.24
		C		0.000	0.000	113.964	0.000	1556.09
T12	80.00-60.00	A	0.916	0.000	0.000	164.703	0.000	1846.85
		B		0.000	0.000	124.912	0.000	1571.01
		C		0.000	0.000	113.304	0.000	1535.19
T13	60.00-40.00	A	0.886	0.000	0.000	163.805	0.000	1810.09
		B		0.000	0.000	124.409	0.000	1543.53
		C		0.000	0.000	112.447	0.000	1508.21
T14	40.00-20.00	A	0.842	0.000	0.000	162.500	0.000	1756.98
		B		0.000	0.000	123.677	0.000	1503.77
		C		0.000	0.000	111.201	0.000	1469.35
T15	20.00-0.00	A	0.754	0.000	0.000	63.966	0.000	661.18
		B		0.000	0.000	48.890	0.000	570.28
		C		0.000	0.000	54.898	0.000	723.93

Feed Line Center of Pressure

Section	Elevation ft	CP _X in	CP _Z in	CP _X Ice in	CP _Z Ice in
T1	280.00-270.00	-9.063	1.830	-6.205	1.253
T2	270.00-250.00	-8.950	1.808	-6.257	1.264
T3	250.00-230.00	-4.081	-7.989	-3.540	-6.059
T4	230.00-220.00	-3.175	-6.349	-3.089	-3.015
T5	220.00-200.00	-4.018	-7.322	-3.768	-4.284
T6	200.00-180.00	-4.414	-3.583	-4.003	-2.505
T7	180.00-160.00	-13.369	-3.829	-11.220	-3.690
T8	160.00-140.00	-14.316	-12.810	-13.910	-11.751
T9	140.00-120.00	-9.252	-7.208	-9.288	-6.491
T10	120.00-100.00	-10.479	-8.118	-10.395	-7.280
T11	100.00-80.00	-11.562	-9.008	-11.475	-8.111
T12	80.00-60.00	-12.501	-9.786	-12.421	-8.873

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Section	Elevation	CP _x	CP _z	CP _x	CP _z
	ft	in	in	Ice in	Ice in
T13	60.00-40.00	-13.511	-10.623	-13.440	-9.717
T14	40.00-20.00	-14.312	-11.293	-14.252	-10.477
T15	20.00-0.00	-13.128	-5.429	-14.710	-4.661

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T1	1	LDF7-50A (1-5/8 FOAM)	270.00 - 280.00	1.0000	1.0000
T2	1	LDF7-50A (1-5/8 FOAM)	250.00 - 270.00	1.0000	1.0000
T3	1	LDF7-50A (1-5/8 FOAM)	230.00 - 250.00	1.0000	1.0000
T3	3	LDF7-50A (1-5/8 FOAM)	230.00 - 250.00	0.6000	0.6000
T4	1	LDF7-50A (1-5/8 FOAM)	220.00 - 230.00	1.0000	1.0000
T4	3	LDF7-50A (1-5/8 FOAM)	220.00 - 230.00	0.6000	0.4041
T5	1	LDF7-50A (1-5/8 FOAM)	200.00 - 220.00	1.0000	1.0000
T5	3	LDF7-50A (1-5/8 FOAM)	200.00 - 220.00	0.6000	0.4754
T6	1	LDF7-50A (1-5/8 FOAM)	180.00 - 200.00	1.0000	1.0000
T6	3	LDF7-50A (1-5/8 FOAM)	180.00 - 200.00	0.6000	0.5353
T6	6	LDF7-50A (1-5/8 FOAM)	180.00 - 200.00	0.6000	0.5353
T6	8	LDF7-50A (1-5/8 FOAM)	180.00 - 190.00	0.6000	0.5353
T7	1	LDF7-50A (1-5/8 FOAM)	160.00 - 180.00	1.0000	1.0000
T7	3	LDF7-50A (1-5/8 FOAM)	160.00 - 180.00	0.6000	0.5852
T7	6	LDF7-50A (1-5/8 FOAM)	160.00 - 180.00	0.6000	0.5852
T7	8	LDF7-50A (1-5/8 FOAM)	160.00 - 180.00	0.6000	0.5852
T7	10	LDF7-50A (1-5/8 FOAM)	160.00 - 180.00	0.6000	0.5852
T7	12	LDF7-50A (1-5/8 FOAM)	160.00 - 170.00	0.6000	0.5852
T7	13	HCS 6x12 4AWG(1-5/8)	160.00 - 170.00	0.6000	0.5852
T8	1	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	1.0000	1.0000
T8	3	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.6000
T8	6	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.6000
T8	8	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.6000
T8	10	LDF7-50A (1-5/8 FOAM)	140.00 -	0.6000	0.6000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
			160.00		
T8	12	LDF7-50A (1-5/8 FOAM)	140.00 -	0.6000	0.6000
			160.00		
T8	13	HCS 6x12 4AWG(1-5/8)	140.00 -	0.6000	0.6000
			160.00		
T8	15	LDF7-50A (1-5/8 FOAM)	140.00 -	0.6000	0.6000
			160.00		
T8	16	Fiber Cable (1/4")	140.00 -	1.0000	1.0000
			160.00		
T8	17	DC Power	140.00 -	1.0000	1.0000
			160.00		
T8	19	LDF7-50A (1-5/8 FOAM)	140.00 -	0.6000	0.6000
			150.00		
T9	1	LDF7-50A (1-5/8 FOAM)	120.00 -	1.0000	1.0000
			140.00		
T9	3	LDF7-50A (1-5/8 FOAM)	120.00 -	0.6000	0.6000
			140.00		
T9	6	LDF7-50A (1-5/8 FOAM)	120.00 -	0.6000	0.6000
			140.00		
T9	8	LDF7-50A (1-5/8 FOAM)	120.00 -	0.6000	0.6000
			140.00		
T9	10	LDF7-50A (1-5/8 FOAM)	120.00 -	0.6000	0.6000
			140.00		
T9	12	LDF7-50A (1-5/8 FOAM)	120.00 -	0.6000	0.6000
			140.00		
T9	13	HCS 6x12 4AWG(1-5/8)	120.00 -	0.6000	0.6000
			140.00		
T9	15	LDF7-50A (1-5/8 FOAM)	120.00 -	0.6000	0.6000
			140.00		
T9	16	Fiber Cable (1/4")	120.00 -	1.0000	1.0000
			140.00		
T9	17	DC Power	120.00 -	1.0000	1.0000
			140.00		
T9	19	LDF7-50A (1-5/8 FOAM)	120.00 -	0.6000	0.6000
			140.00		
T9	21	LDF7-50A (1-5/8 FOAM)	120.00 -	0.6000	0.6000
			140.00		
T9	22	HCS 6x12 4AWG(1-5/8)	120.00 -	0.6000	0.6000
			140.00		
T10	1	LDF7-50A (1-5/8 FOAM)	100.00 -	1.0000	1.0000
			120.00		
T10	3	LDF7-50A (1-5/8 FOAM)	100.00 -	0.6000	0.6000
			120.00		
T10	6	LDF7-50A (1-5/8 FOAM)	100.00 -	0.6000	0.6000
			120.00		
T10	8	LDF7-50A (1-5/8 FOAM)	100.00 -	0.6000	0.6000
			120.00		
T10	10	LDF7-50A (1-5/8 FOAM)	100.00 -	0.6000	0.6000
			120.00		
T10	12	LDF7-50A (1-5/8 FOAM)	100.00 -	0.6000	0.6000
			120.00		
T10	13	HCS 6x12 4AWG(1-5/8)	100.00 -	0.6000	0.6000
			120.00		
T10	15	LDF7-50A (1-5/8 FOAM)	100.00 -	0.6000	0.6000
			120.00		
T10	16	Fiber Cable (1/4")	100.00 -	1.0000	1.0000
			120.00		
T10	17	DC Power	100.00 -	1.0000	1.0000
			120.00		
T10	19	LDF7-50A (1-5/8 FOAM)	100.00 -	0.6000	0.6000
			120.00		
T10	21	LDF7-50A (1-5/8 FOAM)	100.00 -	0.6000	0.6000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T10	22	HCS 6x12 4AWG(1-5/8)	120.00 100.00 - 120.00	0.6000	0.6000
T11	1	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	1.0000	1.0000
T11	3	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.6000
T11	6	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.6000
T11	8	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.6000
T11	10	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.6000
T11	12	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.6000
T11	13	HCS 6x12 4AWG(1-5/8)	80.00 - 100.00	0.6000	0.6000
T11	15	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.6000
T11	16	Fiber Cable (1/4")	80.00 - 100.00	1.0000	1.0000
T11	17	DC Power	80.00 - 100.00	1.0000	1.0000
T11	19	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.6000
T11	21	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.6000
T11	22	HCS 6x12 4AWG(1-5/8)	80.00 - 100.00	0.6000	0.6000
T12	1	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	1.0000	1.0000
T12	3	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.6000
T12	6	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.6000
T12	8	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.6000
T12	10	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.6000
T12	12	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.6000
T12	13	HCS 6x12 4AWG(1-5/8)	60.00 - 80.00	0.6000	0.6000
T12	15	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.6000
T12	16	Fiber Cable (1/4")	60.00 - 80.00	1.0000	1.0000
T12	17	DC Power	60.00 - 80.00	1.0000	1.0000
T12	19	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.6000
T12	21	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.6000
T12	22	HCS 6x12 4AWG(1-5/8)	60.00 - 80.00	0.6000	0.6000
T13	1	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	1.0000	1.0000
T13	3	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.6000
T13	6	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.6000
T13	8	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.6000
T13	10	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.6000
T13	12	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.6000
T13	13	HCS 6x12 4AWG(1-5/8)	40.00 - 60.00	0.6000	0.6000
T13	15	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.6000
T13	16	Fiber Cable (1/4")	40.00 - 60.00	1.0000	1.0000
T13	17	DC Power	40.00 - 60.00	1.0000	1.0000
T13	19	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.6000
T13	21	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.6000
T13	22	HCS 6x12 4AWG(1-5/8)	40.00 - 60.00	0.6000	0.6000
T14	1	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	1.0000	1.0000
T14	3	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.6000
T14	6	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.6000
T14	8	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.6000
T14	10	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.6000
T14	12	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.6000
T14	13	HCS 6x12 4AWG(1-5/8)	20.00 - 40.00	0.6000	0.6000
T14	15	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.6000
T14	16	Fiber Cable (1/4")	20.00 - 40.00	1.0000	1.0000
T14	17	DC Power	20.00 - 40.00	1.0000	1.0000
T14	19	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.6000
T14	21	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.6000
T14	22	HCS 6x12 4AWG(1-5/8)	20.00 - 40.00	0.6000	0.6000
T15	1	LDF7-50A (1-5/8 FOAM)	12.00 - 20.00	1.0000	1.0000
T15	3	LDF7-50A (1-5/8 FOAM)	12.00 - 20.00	0.6000	0.6000
T15	4	HCS 6x12 4AWG(1-5/8)	0.00 - 12.00	1.0000	1.0000
T15	6	LDF7-50A (1-5/8 FOAM)	12.00 - 20.00	0.6000	0.6000
T15	8	LDF7-50A (1-5/8 FOAM)	12.00 - 20.00	0.6000	0.6000
T15	10	LDF7-50A (1-5/8 FOAM)	12.00 - 20.00	0.6000	0.6000
T15	12	LDF7-50A (1-5/8 FOAM)	12.00 - 20.00	0.6000	0.6000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T15	13	HCS 6x12 4AWG(1-5/8)	12.00 - 20.00	0.6000	0.6000
T15	15	LDF7-50A (1-5/8 FOAM)	12.00 - 20.00	0.6000	0.6000
T15	16	Fiber Cable (1/4")	12.00 - 20.00	1.0000	1.0000
T15	17	DC Power	12.00 - 20.00	1.0000	1.0000
T15	19	LDF7-50A (1-5/8 FOAM)	12.00 - 20.00	0.6000	0.6000
T15	21	LDF7-50A (1-5/8 FOAM)	12.00 - 20.00	0.6000	0.6000
T15	22	HCS 6x12 4AWG(1-5/8)	12.00 - 20.00	0.6000	0.6000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight lb
Beacon	B	None		0.000	280.00	No Ice 2.70 1/2" Ice 3.10 1" Ice 3.50	2.70 3.10 3.50	50.00 70.00 90.00
Lightning Rod 5/8x6'	B	None		0.000	280.00	No Ice 0.38 1/2" Ice 0.99 1" Ice 1.60	0.38 0.99 1.60	5.00 5.00 5.00

DB420-A	B	From Leg	8.00 0.000 0.000	0.000	280.00	No Ice 3.33 1/2" Ice 5.99 1" Ice 8.66	3.33 5.99 8.66	30.00 40.00 50.00
DB586-XC	B	From Leg	8.00 0.000 0.000	0.000	280.00	No Ice 1.01 1/2" Ice 1.28 1" Ice 1.56	1.01 1.28 1.56	10.00 20.00 30.00
Sector Mount	C	None		0.000	280.00	No Ice 70.47 1/2" Ice 100.14 1" Ice 129.81	70.47 100.14 129.81	3080.00 4500.00 5920.00

APXVAARR24_43-U-NA20 w/ MP (T-Mobile)	A	From Leg	3.00 0.000 0.000	0.000	250.00	No Ice 14.69 1/2" Ice 15.46 1" Ice 16.23	6.87 7.55 8.25	190.00 310.00 460.00
APXVAARR24_43-U-NA20 w/ MP (T-Mobile)	B	From Leg	3.00 0.000 0.000	0.000	250.00	No Ice 14.69 1/2" Ice 15.46 1" Ice 16.23	6.87 7.55 8.25	190.00 310.00 460.00
APXVAARR24_43-U-NA20 w/ MP (T-Mobile)	C	From Leg	3.00 0.000 0.000	0.000	250.00	No Ice 14.69 1/2" Ice 15.46 1" Ice 16.23	6.87 7.55 8.25	190.00 310.00 460.00
AIR32 B66A/B2A w/ MP (T-Mobile)	A	From Leg	3.00 0.000 0.000	0.000	250.00	No Ice 6.81 1/2" Ice 7.30 1" Ice 7.76	6.14 6.99 7.73	150.00 220.00 280.00
AIR32 B66A/B2A w/ MP (T-Mobile)	B	From Leg	3.00 0.000 0.000	0.000	250.00	No Ice 6.81 1/2" Ice 7.30 1" Ice 7.76	6.14 6.99 7.73	150.00 220.00 280.00
AIR32 B66A/B2A w/ MP (T-Mobile)	C	From Leg	3.00 0.000 0.000	0.000	250.00	No Ice 6.81 1/2" Ice 7.30 1" Ice 7.76	6.14 6.99 7.73	150.00 220.00 280.00
AIR 6468 B41 w/ MP (T-Mobile)	A	From Leg	3.00 0.000 0.000	0.000	250.00	No Ice 6.26 1/2" Ice 6.65 1" Ice 7.05	3.61 4.10 4.61	150.00 200.00 260.00

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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _A A		Weight
			Horz Lateral	Vert			Front	Side	
			ft	ft	°	ft	ft ²	ft ²	lb
AIR 6468 B41 w/ MP (T-Mobile)	B	From Leg	3.00	0.000	0.000	250.00	No Ice 6.26	3.61	150.00
			0.000				1/2" Ice 6.65	4.10	200.00
			0.000				1" Ice 7.05	4.61	260.00
AIR 6468 B41 w/ MP (T-Mobile)	C	From Leg	3.00	0.000	0.000	250.00	No Ice 6.26	3.61	150.00
			0.000				1/2" Ice 6.65	4.10	200.00
			0.000				1" Ice 7.05	4.61	260.00
RADIO 4449 B12/B71 (T-Mobile)	A	From Leg	3.00	0.000	0.000	250.00	No Ice 1.64	1.15	80.00
			0.000				1/2" Ice 1.80	1.29	90.00
			0.000				1" Ice 1.97	1.44	110.00
RADIO 4449 B12/B71 (T-Mobile)	B	From Leg	3.00	0.000	0.000	250.00	No Ice 1.64	1.15	80.00
			0.000				1/2" Ice 1.80	1.29	90.00
			0.000				1" Ice 1.97	1.44	110.00
RADIO 4449 B12/B71 (T-Mobile)	C	From Leg	3.00	0.000	0.000	250.00	No Ice 1.64	1.15	80.00
			0.000				1/2" Ice 1.80	1.29	90.00
			0.000				1" Ice 1.97	1.44	110.00
RADIO 4415 B25 (T-Mobile)	A	From Leg	3.00	0.000	0.000	250.00	No Ice 1.84	0.82	50.00
			0.000				1/2" Ice 2.01	0.94	60.00
			0.000				1" Ice 2.19	1.07	80.00
RADIO 4415 B25 (T-Mobile)	B	From Leg	3.00	0.000	0.000	250.00	No Ice 1.84	0.82	50.00
			0.000				1/2" Ice 2.01	0.94	60.00
			0.000				1" Ice 2.19	1.07	80.00
RADIO 4415 B25 (T-Mobile)	C	From Leg	3.00	0.000	0.000	250.00	No Ice 1.84	0.82	50.00
			0.000				1/2" Ice 2.01	0.94	60.00
			0.000				1" Ice 2.19	1.07	80.00
Sector Mount (T-Mobile)	C	None		0.000	0.000	250.00	No Ice 22.45	22.45	1020.00
							1/2" Ice 33.50	33.50	1470.00
							1" Ice 44.55	44.55	1930.00

Sector Mount	A	None		0.000	0.000	235.00	No Ice 70.47	70.47	3080.00
							1/2" Ice 100.14	100.14	4500.00
							1" Ice 129.81	129.81	5920.00
DB420-A	B	From Leg	8.00	0.000	0.000	235.00	No Ice 3.33	3.33	30.00
			0.000				1/2" Ice 5.99	5.99	40.00
			9.000				1" Ice 8.66	8.66	50.00
DB586-XC	A	From Leg	8.00	0.000	0.000	235.00	No Ice 1.01	1.01	10.00
			0.000				1/2" Ice 1.28	1.28	20.00
			0.000				1" Ice 1.56	1.56	30.00

(3) DB980H120D-M w/ MP	A	From Leg	3.00	0.000	0.000	200.00	No Ice 3.99	3.60	30.00
			0.000				1/2" Ice 4.45	4.46	70.00
			0.000				1" Ice 4.90	5.19	110.00
(3) DB980H120D-M w/ MP	B	From Leg	3.00	0.000	0.000	200.00	No Ice 3.99	3.60	30.00
			0.000				1/2" Ice 4.45	4.46	70.00
			0.000				1" Ice 4.90	5.19	110.00
(3) DB980H120D-M w/ MP	C	From Leg	3.00	0.000	0.000	200.00	No Ice 3.99	3.60	30.00
			0.000				1/2" Ice 4.45	4.46	70.00
			0.000				1" Ice 4.90	5.19	110.00
Sector Mount	C	None		0.000	0.000	200.00	No Ice 18.73	18.73	860.00
							1/2" Ice 27.19	27.19	1260.00
							1" Ice 35.65	35.65	1660.00

(3) DB980H120D-M w/ MP	A	From Leg	3.00	0.000	0.000	190.00	No Ice 3.99	3.60	30.00
			0.000				1/2" Ice 4.45	4.46	70.00
			0.000				1" Ice 4.90	5.19	110.00
(3) DB980H120D-M w/ MP	B	From Leg	3.00	0.000	0.000	190.00	No Ice 3.99	3.60	30.00
			0.000				1/2" Ice 4.45	4.46	70.00
			0.000				1" Ice 4.90	5.19	110.00

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Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment	Placement ft	CAA Front ft ²	CAA Side ft ²	Weight lb
(3) DB980H120D-M w/ MP	C	From Leg	3.00 0.000 0.000	0.000	190.00	No Ice 3.99 1/2" Ice 4.45 1" Ice 4.90	3.60 4.46 5.19	30.00 70.00 110.00
Sector Mount	C	None		0.000	190.00	No Ice 18.73 1/2" Ice 27.19 1" Ice 35.65	18.73 27.19 35.65	860.00 1260.00 1660.00

(3) DB980H120D-M w/ MP	A	From Leg	3.00 0.000 0.000	0.000	180.00	No Ice 3.99 1/2" Ice 4.45 1" Ice 4.90	3.60 4.46 5.19	30.00 70.00 110.00
(3) DB980H120D-M w/ MP	B	From Leg	3.00 0.000 0.000	0.000	180.00	No Ice 3.99 1/2" Ice 4.45 1" Ice 4.90	3.60 4.46 5.19	30.00 70.00 110.00
(3) DB980H120D-M w/ MP	C	From Leg	3.00 0.000 0.000	0.000	180.00	No Ice 3.99 1/2" Ice 4.45 1" Ice 4.90	3.60 4.46 5.19	30.00 70.00 110.00
Sector Mount	C	None		0.000	180.00	No Ice 18.73 1/2" Ice 27.19 1" Ice 35.65	18.73 27.19 35.65	860.00 1260.00 1660.00

APXVSPP18-C-A20 w/ MP	A	From Leg	3.00 0.000 0.000	0.000	170.00	No Ice 4.60 1/2" Ice 5.05 1" Ice 5.50	4.01 4.45 4.89	100.00 160.00 230.00
APXVSPP18-C-A20 w/ MP	B	From Leg	3.00 0.000 0.000	0.000	170.00	No Ice 4.60 1/2" Ice 5.05 1" Ice 5.50	4.01 4.45 4.89	100.00 160.00 230.00
APXVSPP18-C-A20 w/ MP	C	From Leg	3.00 0.000 0.000	0.000	170.00	No Ice 4.60 1/2" Ice 5.05 1" Ice 5.50	4.01 4.45 4.89	100.00 160.00 230.00
APXVTM14-C-I20 w/ MP	A	From Leg	3.00 0.000 0.000	0.000	170.00	No Ice 4.09 1/2" Ice 4.48 1" Ice 4.88	2.86 3.23 3.61	80.00 130.00 190.00
APXVTM14-C-I20 w/ MP	B	From Leg	3.00 0.000 0.000	0.000	170.00	No Ice 4.09 1/2" Ice 4.48 1" Ice 4.88	2.86 3.23 3.61	80.00 130.00 190.00
APXVTM14-C-I20 w/ MP	C	From Leg	3.00 0.000 0.000	0.000	170.00	No Ice 4.09 1/2" Ice 4.48 1" Ice 4.88	2.86 3.23 3.61	80.00 130.00 190.00
FD-RRH-2x50-800	A	From Leg	3.00 0.000 0.000	0.000	170.00	No Ice 2.13 1/2" Ice 2.32 1" Ice 2.51	2.49 2.68 2.89	60.00 90.00 120.00
FD-RRH-2x50-800	B	From Leg	3.00 0.000 0.000	0.000	170.00	No Ice 2.13 1/2" Ice 2.32 1" Ice 2.51	2.49 2.68 2.89	60.00 90.00 120.00
FD-RRH-2x50-800	C	From Leg	3.00 0.000 0.000	0.000	170.00	No Ice 2.13 1/2" Ice 2.32 1" Ice 2.51	2.49 2.68 2.89	60.00 90.00 120.00
1900MHZ 4X40W RRH	A	From Leg	3.00 0.000 0.000	0.000	170.00	No Ice 2.32 1/2" Ice 2.53 1" Ice 2.74	2.24 2.44 2.65	60.00 80.00 110.00
1900MHZ 4X40W RRH	B	From Leg	3.00 0.000 0.000	0.000	170.00	No Ice 2.32 1/2" Ice 2.53 1" Ice 2.74	2.24 2.44 2.65	60.00 80.00 110.00
1900MHZ 4X40W RRH	C	From Leg	3.00 0.000 0.000	0.000	170.00	No Ice 2.32 1/2" Ice 2.53 1" Ice 2.74	2.24 2.44 2.65	60.00 80.00 110.00
TD-RRH8X20-25	A	From Leg	3.00	0.000	170.00	No Ice 3.70	1.29	70.00

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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz Lateral	Vert					
			ft	ft	°	ft	ft ²	ft ²	lb
			0.000			1/2" Ice	3.95	1.46	90.00
			0.000			1" Ice	4.20	1.64	120.00
TD-RRH8X20-25	B	From Leg	3.00	0.000	170.00	No Ice	3.70	1.29	70.00
			0.000			1/2" Ice	3.95	1.46	90.00
			0.000			1" Ice	4.20	1.64	120.00
TD-RRH8X20-25	C	From Leg	3.00	0.000	170.00	No Ice	3.70	1.29	70.00
			0.000			1/2" Ice	3.95	1.46	90.00
			0.000			1" Ice	4.20	1.64	120.00
Sector Mount	C	None		0.000	170.00	No Ice	22.45	22.45	1020.00
						1/2" Ice	33.50	33.50	1470.00
						1" Ice	44.55	44.55	1930.00

800 10121 w/ MP	A	From Leg	3.00	0.000	160.00	No Ice	3.60	2.95	70.00
			0.000			1/2" Ice	4.00	3.34	110.00
			0.000			1" Ice	4.42	3.74	170.00
800 10121 w/ MP	B	From Leg	3.00	0.000	160.00	No Ice	3.60	2.95	70.00
			0.000			1/2" Ice	4.00	3.34	110.00
			0.000			1" Ice	4.42	3.74	170.00
800 10121 w/ MP	C	From Leg	3.00	0.000	160.00	No Ice	3.60	2.95	70.00
			0.000			1/2" Ice	4.00	3.34	110.00
			0.000			1" Ice	4.42	3.74	170.00
HPA65R-BU6A w/ MP	A	From Leg	3.00	0.000	160.00	No Ice	5.83	5.00	80.00
			0.000			1/2" Ice	6.40	5.56	140.00
			0.000			1" Ice	6.99	6.13	220.00
HPA65R-BU6A w/ MP	B	From Leg	3.00	0.000	160.00	No Ice	5.83	5.00	80.00
			0.000			1/2" Ice	6.40	5.56	140.00
			0.000			1" Ice	6.99	6.13	220.00
HPA65R-BU6A w/ MP	C	From Leg	3.00	0.000	160.00	No Ice	5.83	5.00	80.00
			0.000			1/2" Ice	6.40	5.56	140.00
			0.000			1" Ice	6.99	6.13	220.00
QS66512-3 w/ MP	A	From Leg	3.00	0.000	160.00	No Ice	4.04	4.18	130.00
			0.000			1/2" Ice	4.42	4.57	200.00
			0.000			1" Ice	4.82	4.97	280.00
QS66512-3 w/ MP	B	From Leg	3.00	0.000	160.00	No Ice	4.04	4.18	130.00
			0.000			1/2" Ice	4.42	4.57	200.00
			0.000			1" Ice	4.82	4.97	280.00
QS66512-3 w/ MP	C	From Leg	3.00	0.000	160.00	No Ice	4.04	4.18	130.00
			0.000			1/2" Ice	4.42	4.57	200.00
			0.000			1" Ice	4.82	4.97	280.00
RRUS 11	A	From Leg	3.00	0.000	160.00	No Ice	2.79	1.19	50.00
			0.000			1/2" Ice	3.00	1.34	70.00
			0.000			1" Ice	3.21	1.50	100.00
RRUS 11	B	From Leg	3.00	0.000	160.00	No Ice	2.79	1.19	50.00
			0.000			1/2" Ice	3.00	1.34	70.00
			0.000			1" Ice	3.21	1.50	100.00
RRUS 11	C	From Leg	3.00	0.000	160.00	No Ice	2.79	1.19	50.00
			0.000			1/2" Ice	3.00	1.34	70.00
			0.000			1" Ice	3.21	1.50	100.00
RRUS 32	A	From Leg	3.00	0.000	160.00	No Ice	2.86	1.78	60.00
			0.000			1/2" Ice	3.08	1.97	80.00
			0.000			1" Ice	3.32	2.17	100.00
RRUS 32	B	From Leg	3.00	0.000	160.00	No Ice	2.86	1.78	60.00
			0.000			1/2" Ice	3.08	1.97	80.00
			0.000			1" Ice	3.32	2.17	100.00
RRUS 32	C	From Leg	3.00	0.000	160.00	No Ice	2.86	1.78	60.00
			0.000			1/2" Ice	3.08	1.97	80.00
			0.000			1" Ice	3.32	2.17	100.00

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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	CAAA		Weight	
			Horz	Lateral			Front	Side		
			ft	ft	°	ft	ft ²	ft ²	lb	
RRUS 32 B2	A	From Leg	3.00		0.000	160.00	No Ice	2.73	1.67	50.00
			0.000				1/2" Ice	2.95	1.86	70.00
			0.000				1" Ice	3.18	2.05	100.00
RRUS 32 B2	B	From Leg	3.00		0.000	160.00	No Ice	2.73	1.67	50.00
			0.000				1/2" Ice	2.95	1.86	70.00
			0.000				1" Ice	3.18	2.05	100.00
RRUS 32 B2	C	From Leg	3.00		0.000	160.00	No Ice	2.73	1.67	50.00
			0.000				1/2" Ice	2.95	1.86	70.00
			0.000				1" Ice	3.18	2.05	100.00
RRUS 4478 B5	A	From Leg	3.00		0.000	160.00	No Ice	1.84	1.06	60.00
			0.000				1/2" Ice	2.01	1.20	80.00
			0.000				1" Ice	2.19	1.34	90.00
RRUS 4478 B5	B	From Leg	3.00		0.000	160.00	No Ice	1.84	1.06	60.00
			0.000				1/2" Ice	2.01	1.20	80.00
			0.000				1" Ice	2.19	1.34	90.00
RRUS 4478 B5	C	From Leg	3.00		0.000	160.00	No Ice	1.84	1.06	60.00
			0.000				1/2" Ice	2.01	1.20	80.00
			0.000				1" Ice	2.19	1.34	90.00
RRUS 4478 B14	A	From Leg	3.00		0.000	160.00	No Ice	1.84	1.06	60.00
			0.000				1/2" Ice	2.01	1.20	80.00
			0.000				1" Ice	2.19	1.34	90.00
RRUS 4478 B14	B	From Leg	3.00		0.000	160.00	No Ice	1.84	1.06	60.00
			0.000				1/2" Ice	2.01	1.20	80.00
			0.000				1" Ice	2.19	1.34	90.00
RRUS 4478 B14	C	From Leg	3.00		0.000	160.00	No Ice	1.84	1.06	60.00
			0.000				1/2" Ice	2.01	1.20	80.00
			0.000				1" Ice	2.19	1.34	90.00
RRUS 4426 B66	A	From Leg	3.00		0.000	160.00	No Ice	1.64	0.73	50.00
			0.000				1/2" Ice	1.80	0.84	60.00
			0.000				1" Ice	1.97	0.97	80.00
RRUS 4426 B66	B	From Leg	3.00		0.000	160.00	No Ice	1.64	0.73	50.00
			0.000				1/2" Ice	1.80	0.84	60.00
			0.000				1" Ice	1.97	0.97	80.00
RRUS 4426 B66	C	From Leg	3.00		0.000	160.00	No Ice	1.64	0.73	50.00
			0.000				1/2" Ice	1.80	0.84	60.00
			0.000				1" Ice	1.97	0.97	80.00
(2) LGP21401	A	From Leg	3.00		0.000	160.00	No Ice	1.10	0.21	10.00
			0.000				1/2" Ice	1.24	0.27	20.00
			0.000				1" Ice	1.38	0.35	30.00
(2) LGP21401	B	From Leg	3.00		0.000	160.00	No Ice	1.10	0.21	10.00
			0.000				1/2" Ice	1.24	0.27	20.00
			0.000				1" Ice	1.38	0.35	30.00
(2) LGP21401	C	From Leg	3.00		0.000	160.00	No Ice	1.10	0.21	10.00
			0.000				1/2" Ice	1.24	0.27	20.00
			0.000				1" Ice	1.38	0.35	30.00
DC6-48-60-18-8F	A	From Leg	3.00		0.000	160.00	No Ice	1.21	1.21	30.00
			0.000				1/2" Ice	1.89	1.89	50.00
			0.000				1" Ice	2.11	2.11	80.00
DC6-48-60-18-8F	B	From Leg	3.00		0.000	160.00	No Ice	1.21	1.21	30.00
			0.000				1/2" Ice	1.89	1.89	50.00
			0.000				1" Ice	2.11	2.11	80.00
DC6-48-60-18-8F	C	From Leg	3.00		0.000	160.00	No Ice	1.21	1.21	30.00
			0.000				1/2" Ice	1.89	1.89	50.00
			0.000				1" Ice	2.11	2.11	80.00
Sector Mount	C	None			0.000	160.00	No Ice	22.45	22.45	1020.00
							1/2" Ice	33.50	33.50	1470.00
							1" Ice	44.55	44.55	1930.00

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Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight lb

APXV18-206517S-C w/ MP	A	From Leg	3.00 0.000 0.000	0.000	150.00	No Ice 1/2" Ice 1" Ice	3.79 4.38 4.99	3.16 3.75 4.35	50.00 90.00 150.00
APXV18-206517S-C w/ MP	B	From Leg	3.00 0.000 0.000	0.000	150.00	No Ice 1/2" Ice 1" Ice	3.79 4.38 4.99	3.16 3.75 4.35	50.00 90.00 150.00
APXV18-206517S-C w/ MP	C	From Leg	3.00 0.000 0.000	0.000	150.00	No Ice 1/2" Ice 1" Ice	3.79 4.38 4.99	3.16 3.75 4.35	50.00 90.00 150.00
Sector Mount	C	None	0.000	0.000	150.00	No Ice 1/2" Ice 1" Ice	19.83 29.41 38.99	19.83 29.41 38.99	920.00 1330.00 1730.00

(2) MX06FRO660-03 w/ MP (Verizon Wireless)	A	From Leg	3.00 0.000 0.000	0.000	140.00	No Ice 1/2" Ice 1" Ice	6.54 7.06 7.60	5.55 6.05 6.57	100.00 180.00 280.00
(2) MX06FRO660-03 w/ MP (Verizon Wireless)	B	From Leg	3.00 0.000 0.000	0.000	140.00	No Ice 1/2" Ice 1" Ice	6.54 7.06 7.60	5.55 6.05 6.57	100.00 180.00 280.00
(2) MX06FRO660-03 w/ MP (Verizon Wireless)	C	From Leg	3.00 0.000 0.000	0.000	140.00	No Ice 1/2" Ice 1" Ice	6.54 7.06 7.60	5.55 6.05 6.57	100.00 180.00 280.00
L-Sub6 Antenna w/ MP (Verizon Wireless)	A	From Leg	3.00 0.000 0.000	0.000	140.00	No Ice 1/2" Ice 1" Ice	5.43 5.97 6.46	3.27 3.99 4.59	110.00 150.00 200.00
L-Sub6 Antenna w/ MP (Verizon Wireless)	B	From Leg	3.00 0.000 0.000	0.000	140.00	No Ice 1/2" Ice 1" Ice	5.43 5.97 6.46	3.27 3.99 4.59	110.00 150.00 200.00
L-Sub6 Antenna w/ MP (Verizon Wireless)	C	From Leg	3.00 0.000 0.000	0.000	140.00	No Ice 1/2" Ice 1" Ice	5.43 5.97 6.46	3.27 3.99 4.59	110.00 150.00 200.00
RFV01U-D1A (Verizon Wireless)	A	From Leg	3.00 0.000 0.000	0.000	140.00	No Ice 1/2" Ice 1" Ice	2.05 2.23 2.41	1.54 1.70 1.86	80.00 110.00 130.00
RFV01U-D1A (Verizon Wireless)	B	From Leg	3.00 0.000 0.000	0.000	140.00	No Ice 1/2" Ice 1" Ice	2.05 2.23 2.41	1.54 1.70 1.86	80.00 110.00 130.00
RFV01U-D1A (Verizon Wireless)	C	From Leg	3.00 0.000 0.000	0.000	140.00	No Ice 1/2" Ice 1" Ice	2.05 2.23 2.41	1.54 1.70 1.86	80.00 110.00 130.00
RFV01U-D2A (Verizon Wireless)	A	From Leg	3.00 0.000 0.000	0.000	140.00	No Ice 1/2" Ice 1" Ice	2.05 2.23 2.41	1.29 1.44 1.59	70.00 90.00 110.00
RFV01U-D2A (Verizon Wireless)	B	From Leg	3.00 0.000 0.000	0.000	140.00	No Ice 1/2" Ice 1" Ice	2.05 2.23 2.41	1.29 1.44 1.59	70.00 90.00 110.00
RFV01U-D2A (Verizon Wireless)	C	From Leg	3.00 0.000 0.000	0.000	140.00	No Ice 1/2" Ice 1" Ice	2.05 2.23 2.41	1.29 1.44 1.59	70.00 90.00 110.00
(2) LPA-80063/6CF w/ MP (Verizon Wireless)	A	From Leg	3.00 0.000 0.000	0.000	140.00	No Ice 1/2" Ice 1" Ice	9.83 10.40 10.93	10.22 11.38 12.27	50.00 140.00 250.00
(2) LPA-80063/6CF w/ MP (Verizon Wireless)	B	From Leg	3.00 0.000 0.000	0.000	140.00	No Ice 1/2" Ice 1" Ice	9.83 10.40 10.93	10.22 11.38 12.27	50.00 140.00 250.00
(2) LPA-80063/6CF w/ MP	C	From Leg	3.00	0.000	140.00	No Ice	9.83	10.22	50.00

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Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			ft	°	ft	ft ²	ft ²	lb
(Verizon Wireless)			0.000		1/2" Ice	10.40	11.38	140.00
RxxDC-3315-PF-48 (Verizon Wireless)	A	From Leg	0.000	0.000	140.00	10.93	12.27	250.00
			3.00		No Ice	2.51	1.65	30.00
			0.000		1/2" Ice	2.71	1.82	50.00
			0.000		1" Ice	2.91	1.99	80.00
RxxDC-3315-PF-48 (Verizon Wireless)	B	From Leg	3.00	0.000	140.00	2.51	1.65	30.00
			0.000		1/2" Ice	2.71	1.82	50.00
			0.000		1" Ice	2.91	1.99	80.00
Sector Mount (Verizon Wireless)	C	None		0.000	140.00	No Ice	19.83	19.83
					1/2" Ice	29.41	29.41	1330.00
					1" Ice	38.99	38.99	1730.00

(2) Kaelus KA-6030 (Verizon Wireless)	C	From Leg	3.00	0.000	140.00	No Ice	0.88	0.29
			0.000		1/2" Ice	1.00	0.36	17.60
			0.000		1" Ice	1.13	0.45	23.94
Site Pro 1 P/N RRUDSM (Verizon Wireless)	C	From Leg	3.00	0.000	140.00	No Ice	0.00	0.00
			0.000		1/2" Ice	0.00	0.00	39.43
			0.000		1" Ice	0.00	0.00	55.20
								70.97

Truss-Leg Properties

Section Designation	Area	Area Ice	Self Weight	Ice Weight	Equiv. Diameter	Equiv. Diameter Ice	Leg Area
	in ²	in ²	lb	lb	in	in	in ²
Pirod 105245	1090.334	2882.045	644.58	274.31	7.572	20.014	5.301
Pirod 105218	2263.469	6009.198	718.59	540.55	7.859	20.865	7.216
Pirod 105218	2263.469	6000.194	718.59	532.78	7.859	20.834	7.216
Pirod 105219	2441.869	6062.293	899.30	552.55	8.479	21.050	9.425
Pirod 105220	2578.801	6123.282	1067.77	557.15	8.954	21.261	11.928
Pirod 105220	2578.801	6110.860	1067.77	546.14	8.954	21.218	11.928
Pirod 112743	3466.516	7304.735	1608.90	735.16	12.037	25.364	14.726
Pirod 112743	3466.516	7189.297	1608.90	714.88	12.037	24.963	14.726
Pirod 112744	3599.558	7264.262	1813.69	702.75	12.498	25.223	17.819
Pirod 112744	3599.558	7085.601	1813.69	671.06	12.498	24.603	17.819
Pirod 112745	3789.333	7167.768	2089.50	651.20	13.157	24.888	21.206
Pirod 112740	3789.333	6680.739	2089.50	562.85	13.157	23.197	21.206

Load Combinations

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

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Comb. No.	Description
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical lb	Horizontal, X lb	Horizontal, Z lb
Leg C	Max. Vert	18	471353.62	42874.59	-24800.62
	Max. H _x	18	471353.62	42874.59	-24800.62
	Max. H _z	7	-387527.72	-36468.58	21092.65
	Min. Vert	7	-387527.72	-36468.58	21092.65
	Min. H _x	7	-387527.72	-36468.58	21092.65
	Min. H _z	18	471353.62	42874.59	-24800.62
Leg B	Max. Vert	10	482980.30	-43468.68	-25693.75
	Max. H _x	23	-397154.73	36929.16	21929.24

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Location	Condition	Gov. Load Comb.	Vertical lb	Horizontal, X lb	Horizontal, Z lb
Leg A	Max. H _z	23	-397154.73	36929.16	21929.24
	Min. Vert	23	-397154.73	36929.16	21929.24
	Min. H _x	10	482980.30	-43468.68	-25693.75
	Min. H _z	10	482980.30	-43468.68	-25693.75
	Max. Vert	2	483766.41	-970.99	50792.88
	Max. H _x	21	31482.55	3457.00	2583.64
	Max. H _z	2	483766.41	-970.99	50792.88
	Min. Vert	15	-394976.15	993.78	-43075.29
	Min. H _x	9	31518.75	-3445.65	2586.49
	Min. H _z	15	-394976.15	993.78	-43075.29

Tower Mast Reaction Summary

Load Combination	Vertical lb	Shear _x lb	Shear _z lb	Overturning Moment, M _x lb-ft	Overturning Moment, M _z lb-ft	Torque lb-ft
Dead Only	104485.05	-0.00	-0.00	-4076.14	2017.43	-0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	125382.01	3.12	-75228.02	-10717261.23	2107.33	-47653.94
0.9 Dead+1.0 Wind 0 deg - No Ice	94036.51	3.12	-75228.99	-10698176.06	1513.81	-47666.27
1.2 Dead+1.0 Wind 30 deg - No Ice	125382.02	35580.65	-61621.63	-8791364.75	-5070886.91	-2679.09
0.9 Dead+1.0 Wind 30 deg - No Ice	94036.51	35581.12	-61622.43	-8775425.83	-5062992.90	-2685.99
1.2 Dead+1.0 Wind 60 deg - No Ice	125382.01	61442.94	-35474.10	-5091939.73	-8808492.12	-1742.94
0.9 Dead+1.0 Wind 60 deg - No Ice	94036.51	61443.76	-35474.57	-5082139.89	-8794275.30	-1735.95
1.2 Dead+1.0 Wind 90 deg - No Ice	125382.01	73880.07	-2.91	-5452.03	-10576104.91	-35104.38
0.9 Dead+1.0 Wind 90 deg - No Ice	94036.51	73881.04	-2.92	-4200.93	-10558969.82	-35085.27
1.2 Dead+1.0 Wind 120 deg - No Ice	125382.01	64654.09	37324.46	5346045.79	-9266675.15	-25326.31
0.9 Dead+1.0 Wind 120 deg - No Ice	94036.51	64654.93	37324.95	5338309.92	-9251785.10	-25339.09
1.2 Dead+1.0 Wind 150 deg - No Ice	125382.01	36938.84	63979.54	9203990.30	-5314264.17	24523.62
0.9 Dead+1.0 Wind 150 deg - No Ice	94036.51	36939.32	63980.39	9189786.50	-5305980.73	24510.13
1.2 Dead+1.0 Wind 180 deg - No Ice	125382.01	-3.11	72505.26	10353823.55	2996.48	47666.80
0.9 Dead+1.0 Wind 180 deg - No Ice	94036.51	-3.11	72506.21	10337750.73	2381.06	47659.78
1.2 Dead+1.0 Wind 210 deg - No Ice	125382.02	-35472.50	61433.59	8733439.53	5048073.98	2680.37
0.9 Dead+1.0 Wind 210 deg - No Ice	94036.51	-35472.95	61434.38	8720078.55	5039050.51	2687.24
1.2 Dead+1.0 Wind 240 deg - No Ice	125382.02	-63425.18	36618.55	5203369.59	9023502.39	1745.49
0.9 Dead+1.0 Wind 240 deg - No Ice	94036.51	-63425.99	36619.02	5195918.28	9007840.40	1738.38
1.2 Dead+1.0 Wind 270 deg - No Ice	125382.01	-73663.14	3.32	-4572.54	10525502.15	35103.45
0.9 Dead+1.0 Wind 270 deg - No Ice	94036.51	-73664.10	3.31	-3323.26	10507278.52	35084.42

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Load Combination	Vertical	Shear _x	Shear _z	Overturning Moment, M _x	Overturning Moment, M _z	Torque
	lb	lb	lb	lb-ft	lb-ft	lb-ft
1.2 Dead+1.0 Wind 300 deg - No Ice	125382.01	-62483.97	-36071.54	-5206928.94	9013339.78	25339.53
0.9 Dead+1.0 Wind 300 deg - No Ice	94036.51	-62484.80	-36072.02	-5196934.64	8997554.89	25334.88
1.2 Dead+1.0 Wind 330 deg - No Ice	125382.01	-36938.49	-63979.75	-9213783.17	5319238.12	-24524.40
0.9 Dead+1.0 Wind 330 deg - No Ice	94036.51	-36938.98	-63980.58	-9197120.12	5309701.51	-24510.90
1.2 Dead+1.0 Ice+1.0 Temp	222059.26	0.09	0.16	-24689.41	11672.01	-0.88
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	222059.25	0.72	-19669.62	-2955637.87	11816.63	-11210.22
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	222059.25	9621.36	-16663.27	-2501783.73	-1418227.99	-791.36
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	222059.25	16870.19	-9740.00	-1468601.16	-2488620.20	2786.80
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	222059.25	20061.94	-0.69	-25024.74	-2962998.47	-7915.61
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	222059.25	17651.20	10190.11	1482823.09	-2599779.20	-9350.32
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	222059.25	9891.89	17133.23	2527139.69	-1461505.93	5236.72
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	222059.25	-0.70	19194.31	2834323.09	12021.80	11209.11
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	222059.25	-9563.28	16562.68	2426024.15	1427072.34	790.66
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	222059.25	-17080.63	9861.52	1424568.74	2522483.79	-2786.67
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	222059.25	-19945.77	0.73	-24821.73	2956874.47	7915.01
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	222059.25	-17340.13	-10010.51	-1511891.70	2587621.57	9349.58
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	222059.25	-9891.86	-17133.22	-2576959.76	1485341.93	-5236.73
Dead+Wind 0 deg - Service	104485.04	0.82	-19796.98	-2820056.88	1924.47	-12543.42
Dead+Wind 30 deg - Service	104485.04	9363.44	-16216.34	-2313773.91	-1331589.84	-713.87
Dead+Wind 60 deg - Service	104485.04	16169.37	-9335.39	-1341305.18	-2314075.50	-460.74
Dead+Wind 90 deg - Service	104485.04	19442.29	-0.81	-4218.34	-2778732.51	-9225.53
Dead+Wind 120 deg - Service	104485.04	17014.35	9822.29	1402514.78	-2434530.64	-6667.07
Dead+Wind 150 deg - Service	104485.04	9720.80	16836.89	2416631.15	-1395572.77	6442.12
Dead+Wind 180 deg - Service	104485.04	-0.82	19080.53	2718899.84	2155.84	12542.86
Dead+Wind 210 deg - Service	104485.04	-9334.92	16166.89	2292950.45	1328369.53	713.87
Dead+Wind 240 deg - Service	104485.04	-16690.95	9636.52	1365009.66	2373397.34	456.84
Dead+Wind 270 deg - Service	104485.04	-19385.20	0.83	-3987.30	2768218.24	9225.50
Dead+Wind 300 deg - Service	104485.04	-16443.33	-9492.61	-1371525.72	2370709.24	6670.82
Dead+Wind 330 deg - Service	104485.04	-9720.77	-16836.90	-2424823.85	1399641.64	-6442.17

Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX lb	PY lb	PZ lb	PX lb	PY lb	PZ lb	
1	0.00	-104485.05	-0.00	0.00	104485.05	0.00	0.000%
2	3.12	-125382.05	-75231.51	-3.12	125382.01	75228.02	0.002%
3	3.12	-94036.54	-75231.51	-3.12	94036.51	75228.99	0.002%
4	35582.58	-125382.05	-61624.60	-35580.65	125382.02	61621.63	0.002%
5	35582.58	-94036.54	-61624.60	-35581.12	94036.51	61622.43	0.002%
6	61446.19	-125382.05	-35475.98	-61442.94	125382.01	35474.10	0.003%
7	61446.19	-94036.54	-35475.98	-61443.76	94036.51	35474.57	0.002%

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Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX lb	PY lb	PZ lb	PX lb	PY lb	PZ lb	
8	73883.76	-125382.05	-3.12	-73880.07	125382.01	2.91	0.003%
9	73883.76	-94036.54	-3.12	-73881.04	94036.51	2.92	0.002%
10	64657.13	-125382.05	37326.21	-64654.09	125382.01	-37324.46	0.002%
11	64657.13	-94036.54	37326.21	-64654.93	94036.51	-37324.95	0.002%
12	36940.51	-125382.05	63982.84	-36938.84	125382.01	-63979.54	0.003%
13	36940.51	-94036.54	63982.84	-36939.32	94036.51	-63980.39	0.002%
14	-3.12	-125382.05	72509.03	3.11	125382.01	-72505.26	0.003%
15	-3.12	-94036.54	72509.03	3.11	94036.51	-72506.21	0.002%
16	-35474.09	-125382.05	61436.70	35472.50	125382.02	-61433.59	0.002%
17	-35474.09	-94036.54	61436.70	35472.95	94036.51	-61434.38	0.002%
18	-63428.13	-125382.05	36620.25	63425.18	125382.02	-36618.55	0.002%
19	-63428.13	-94036.54	36620.25	63425.99	94036.51	-36619.02	0.002%
20	-73666.79	-125382.05	3.12	73663.14	125382.01	-3.32	0.003%
21	-73666.79	-94036.54	3.12	73664.10	94036.51	-3.31	0.002%
22	-62487.29	-125382.05	-36073.46	62483.97	125382.01	36071.54	0.003%
23	-62487.29	-94036.54	-36073.46	62484.80	94036.51	36072.02	0.002%
24	-36940.51	-125382.05	-63982.84	36938.49	125382.01	63979.75	0.003%
25	-36940.51	-94036.54	-63982.84	36938.98	94036.51	63980.58	0.002%
26	0.00	-222059.26	0.00	-0.09	222059.26	-0.16	0.000%
27	0.71	-222059.26	-19670.69	-0.72	222059.25	19669.62	0.000%
28	9621.89	-222059.26	-16664.18	-9621.36	222059.25	16663.27	0.000%
29	16871.11	-222059.26	-9740.54	-16870.19	222059.25	9740.00	0.000%
30	20063.02	-222059.26	-0.71	-20061.94	222059.25	0.69	0.000%
31	17652.12	-222059.26	10190.64	-17651.20	222059.25	-10190.11	0.000%
32	9892.41	-222059.26	17134.15	-9891.89	222059.25	-17133.23	0.000%
33	-0.71	-222059.26	19195.35	0.70	222059.25	-19194.31	0.000%
34	-9563.80	-222059.26	16563.57	9563.28	222059.25	-16562.68	0.000%
35	-17081.54	-222059.26	9862.03	17080.63	222059.25	-9861.52	0.000%
36	-19946.84	-222059.26	0.71	19945.77	222059.25	-0.73	0.000%
37	-17341.08	-222059.26	-10011.06	17340.13	222059.25	10010.51	0.000%
38	-9892.41	-222059.26	-17134.15	9891.86	222059.25	17133.22	0.000%
39	0.82	-104485.05	-19797.77	-0.82	104485.04	19796.98	0.001%
40	9363.84	-104485.05	-16217.00	-9363.44	104485.04	16216.34	0.001%
41	16170.05	-104485.05	-9335.78	-16169.37	104485.04	9335.39	0.001%
42	19443.09	-104485.05	-0.82	-19442.29	104485.04	0.81	0.001%
43	17015.03	-104485.05	9822.69	-17014.35	104485.04	-9822.29	0.001%
44	9721.19	-104485.05	16837.59	-9720.80	104485.04	-16836.89	0.001%
45	-0.82	-104485.05	19081.32	0.82	104485.04	-19080.53	0.001%
46	-9335.29	-104485.05	16167.55	9334.92	104485.04	-16166.89	0.001%
47	-16691.61	-104485.05	9636.91	16690.95	104485.04	-9636.52	0.001%
48	-19386.00	-104485.05	0.82	19385.20	104485.04	-0.83	0.001%
49	-16444.02	-104485.05	-9493.01	16443.33	104485.04	9492.61	0.001%
50	-9721.19	-104485.05	-16837.59	9720.77	104485.04	16836.90	0.001%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	6	0.00000001	0.00000001
2	Yes	14	0.00007380	0.00012839
3	Yes	14	0.00005343	0.00009352
4	Yes	14	0.00007856	0.00013687
5	Yes	14	0.00005800	0.00010169
6	Yes	14	0.00008284	0.00014442
7	Yes	14	0.00006205	0.00010886
8	Yes	14	0.00007860	0.00013703

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9	Yes	14	0.00005804	0.00010179
10	Yes	14	0.00007386	0.00012861
11	Yes	14	0.00005347	0.00009367
12	Yes	14	0.00007853	0.00013655
13	Yes	14	0.00005798	0.00010143
14	Yes	14	0.00008277	0.00014368
15	Yes	14	0.00006201	0.00010832
16	Yes	14	0.00007856	0.00013661
17	Yes	14	0.00005800	0.00010150
18	Yes	14	0.00007402	0.00012885
19	Yes	14	0.00005362	0.00009392
20	Yes	14	0.00007855	0.00013673
21	Yes	14	0.00005800	0.00010158
22	Yes	14	0.00008286	0.00014425
23	Yes	14	0.00006209	0.00010877
24	Yes	14	0.00007848	0.00013650
25	Yes	14	0.00005795	0.00010139
26	Yes	6	0.00000001	0.00000666
27	Yes	15	0.00000001	0.00011189
28	Yes	15	0.00000001	0.00011195
29	Yes	15	0.00000001	0.00011307
30	Yes	15	0.00000001	0.00011283
31	Yes	15	0.00000001	0.00011130
32	Yes	15	0.00000001	0.00011177
33	Yes	15	0.00000001	0.00011182
34	Yes	15	0.00000001	0.00011047
35	Yes	15	0.00000001	0.00011038
36	Yes	15	0.00000001	0.00011249
37	Yes	15	0.00000001	0.00011421
38	Yes	15	0.00000001	0.00011284
39	Yes	14	0.00000001	0.00010348
40	Yes	14	0.00000001	0.00010521
41	Yes	14	0.00000001	0.00010736
42	Yes	14	0.00000001	0.00010588
43	Yes	14	0.00000001	0.00010372
44	Yes	14	0.00000001	0.00010555
45	Yes	14	0.00000001	0.00010688
46	Yes	14	0.00000001	0.00010488
47	Yes	14	0.00000001	0.00010339
48	Yes	14	0.00000001	0.00010555
49	Yes	14	0.00000001	0.00010745
50	Yes	14	0.00000001	0.00010552

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	280 - 270	7.691	43	0.285	0.011
T2	270 - 250	7.080	43	0.282	0.009
T3	250 - 230	5.906	43	0.265	0.012
T4	230 - 220	4.827	43	0.233	0.014
T5	220 - 200	4.349	43	0.213	0.013
T6	200 - 180	3.506	43	0.183	0.012
T7	180 - 160	2.780	43	0.155	0.011
T8	160 - 140	2.155	39	0.132	0.009
T9	140 - 120	1.624	39	0.113	0.008
T10	120 - 100	1.169	39	0.092	0.006
T11	100 - 80	0.801	39	0.075	0.005
T12	80 - 60	0.514	39	0.057	0.004

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Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T13	60 - 40	0.293	39	0.042	0.003
T14	40 - 20	0.137	39	0.026	0.002
T15	20 - 0	0.038	39	0.013	0.001

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
280.00	Beacon	43	7.691	0.285	0.011	136924
250.00	APXVAARR24_43-U-NA20 w/ MP	43	5.906	0.265	0.012	57956
235.00	Sector Mount	43	5.083	0.242	0.013	28982
200.00	(3) DB980H120D-M w/ MP	43	3.506	0.183	0.012	42633
190.00	(3) DB980H120D-M w/ MP	43	3.130	0.169	0.012	45351
180.00	(3) DB980H120D-M w/ MP	43	2.780	0.155	0.011	47428
170.00	APXVSPP18-C-A20 w/ MP	39	2.455	0.142	0.010	48181
160.00	800 10121 w/ MP	39	2.155	0.132	0.009	49299
150.00	APXV18-206517S-C w/ MP	39	1.879	0.122	0.008	57428
140.00	(2) MX06FRO660-03 w/ MP	39	1.624	0.113	0.008	67454

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	280 - 270	29.296	10	1.084	0.042
T2	270 - 250	26.971	10	1.075	0.035
T3	250 - 230	22.501	10	1.008	0.046
T4	230 - 220	18.391	10	0.888	0.051
T5	220 - 200	16.569	10	0.811	0.049
T6	200 - 180	13.357	10	0.699	0.047
T7	180 - 160	10.588	10	0.589	0.043
T8	160 - 140	8.202	10	0.503	0.035
T9	140 - 120	6.174	10	0.430	0.029
T10	120 - 100	4.443	10	0.351	0.022
T11	100 - 80	3.045	2	0.285	0.018
T12	80 - 60	1.951	2	0.216	0.014
T13	60 - 40	1.113	2	0.158	0.010
T14	40 - 20	0.520	2	0.099	0.006
T15	20 - 0	0.144	2	0.049	0.003

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
280.00	Beacon	10	29.296	1.084	0.042	36700
250.00	APXVAARR24_43-U-NA20 w/ MP	10	22.501	1.008	0.046	15198
235.00	Sector Mount	10	19.367	0.924	0.051	7626

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Elevation	Appurtenance	Gov. Load Comb.	Deflection	Tilt	Twist	Radius of Curvature
ft			in	°	°	ft
200.00	(3) DB980H120D-M w/ MP	10	13.357	0.699	0.047	11193
190.00	(3) DB980H120D-M w/ MP	10	11.923	0.644	0.045	11902
180.00	(3) DB980H120D-M w/ MP	10	10.588	0.589	0.043	12442
170.00	APXVSP18-C-A20 w/ MP	10	9.348	0.543	0.039	12636
160.00	800 10121 w/ MP	10	8.202	0.503	0.035	12925
150.00	APXV18-206517S-C w/ MP	10	7.148	0.467	0.032	15040
140.00	(2) MX06FRO660-03 w/ MP	10	6.174	0.430	0.029	17722

Bolt Design Data

Section No.	Elevation	Component Type	Bolt Grade	Bolt Size	Number Of Bolts	Maximum Load per Bolt lb	Allowable Load per Bolt lb	Ratio Load Allowable	Allowable Ratio	Criteria
	ft			in						
T1	280	Leg	A325N	0.625	5	1112.45	20340.10	0.055 ✓	1	Bolt Tension
T2	270	Leg	A325N	0.750	5	4562.33	30101.40	0.152 ✓	1	Bolt Tension
T3	250	Leg	A325N	1.000	6	9876.44	54517.00	0.181 ✓	1	Bolt Tension
T4	230	Leg	A325N	1.000	6	10463.90	54517.00	0.192 ✓	1	Bolt Tension
		Diagonal	A325N	1.000	1	4232.70	9144.14	0.463 ✓	1	Member Block Shear
T5	220	Leg	A325N	1.000	6	14200.60	54517.00	0.260 ✓	1	Bolt Tension
		Diagonal	A325N	1.000	1	4273.91	10163.70	0.421 ✓	1	Member Block Shear
T6	200	Leg	A325N	1.000	6	17737.70	54517.00	0.325 ✓	1	Bolt Tension
		Diagonal	A325N	1.000	1	6086.77	10163.70	0.599 ✓	1	Member Block Shear
		Top Girt	A325N	1.000	1	3165.79	10163.70	0.311 ✓	1	Member Block Shear
		Mid Girt	A325N	1.000	1	3861.81	10163.70	0.380 ✓	1	Member Block Shear
T7	180	Leg	A325N	1.250	6	22248.50	87219.80	0.255 ✓	1	Bolt Tension
		Diagonal	A325N	1.250	1	7123.73	10283.20	0.693 ✓	1	Member Block Shear
		Top Girt	A325N	1.250	1	4156.92	16429.70	0.253 ✓	1	Member Block Shear
		Mid Girt	A325N	1.250	1	3489.93	16429.70	0.212 ✓	1	Member Block Shear
T8	160	Leg	A325N	1.250	6	27719.60	87219.80	0.318 ✓	1	Bolt Tension
		Diagonal	A325N	1.250	1	8861.03	20537.10	0.431 ✓	1	Member Block Shear
		Top Girt	A325N	1.250	1	3421.47	20537.10	0.167 ✓	1	Member Block Shear
T9	140	Leg	A325N	1.250	6	33782.10	87219.80	0.387 ✓	1	Bolt Tension
		Diagonal	A325N	1.250	1	10251.00	20537.10	0.499 ✓	1	Member Block Shear
T10	120	Leg	A325N	1.250	12	18894.20	87219.80	0.217 ✓	1	Bolt Tension
		Diagonal	A325N	1.000	2	7208.11	35525.40	0.203 ✓	1	Member Block Shear
T11	100	Leg	A325N	1.250	12	21885.80	87219.80	0.251 ✓	1	Bolt Tension
		Diagonal	A325N	1.000	2	7300.76	35525.40	0.206 ✓	1	Member Block Shear

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Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt lb	Allowable Load per Bolt lb	Ratio Load Allowable	Allowable Ratio	Criteria
T12	80	Leg	A325N	1.250	12	24600.50	87219.80	0.282 ✓	1	Bolt Tension
		Diagonal	A325N	1.000	2	7197.13	35525.40	0.203 ✓	1	Member Block Shear
T13	60	Leg	A325N	1.250	12	27138.60	87219.80	0.311 ✓	1	Bolt Tension
		Diagonal	A325N	1.000	2	7495.73	35525.40	0.211 ✓	1	Member Block Shear
T14	40	Leg	A325N	1.250	12	29749.70	87219.80	0.341 ✓	1	Bolt Tension
		Diagonal	A325N	1.000	2	7815.97	35525.40	0.220 ✓	1	Member Block Shear
T15	20	Diagonal	A325N	1.000	2	8332.54	35525.40	0.235 ✓	1	Member Block Shear

Compression Checks

Leg Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio P _u / φP _n
T1	280 - 270	1 3/4	10.00	2.25	61.7 K=1.00	2.405	-7265.98	81928.90	0.089 ¹ ✓
T2	270 - 250	2	20.00	2.38	57.0 K=1.00	3.142	-24967.20	111479.00	0.224 ¹ ✓
T3	250 - 230	2 1/2	20.00	2.38	45.6 K=1.00	4.909	-65465.90	189738.00	0.345 ¹ ✓
T4	230 - 220	Pirod 105245	10.02	10.02	37.8 K=1.00	5.301	-71868.80	214859.00	0.334 ¹ ✓
T5	220 - 200	Pirod 105218	20.03	10.02	32.4 K=1.00	7.216	-97244.90	300681.00	0.323 ¹ ✓
T6	200 - 180	Pirod 105218	20.03	10.02	32.4 K=1.00	7.216	-122375.00	300681.00	0.407 ¹ ✓
T7	180 - 160	Pirod 105219	20.03	10.02	28.4 K=1.00	9.425	-155746.00	399868.00	0.389 ¹ ✓
T8	160 - 140	Pirod 105220	20.03	10.02	25.2 K=1.00	11.928	-197293.00	512375.00	0.385 ¹ ✓
T9	140 - 120	Pirod 105220	20.03	10.02	25.2 K=1.00	11.928	-240987.00	512375.00	0.470 ¹ ✓
T10	120 - 100	Pirod 112743	20.03	20.03	32.6 K=1.00	14.726	-268682.00	613145.00	0.438 ¹ ✓
T11	100 - 80	Pirod 112743	20.03	20.03	32.6 K=1.00	14.726	-312565.00	613145.00	0.510 ¹ ✓
T12	80 - 60	Pirod 112744	20.03	20.03	32.6 K=1.00	17.819	-352750.00	741993.00	0.475 ¹ ✓
T13	60 - 40	Pirod 112744	20.03	20.03	32.6 K=1.00	17.819	-390363.00	741993.00	0.526 ¹ ✓
T14	40 - 20	Pirod 112745	20.03	20.03	32.5	21.206	-431195.00	883145.00	0.488 ¹ ✓

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T15	20 - 0	Pirod 112740	20.03	20.03	K=1.00 32.5 K=1.00	21.206	-463501.00	883145.00	0.525 ¹

¹ P_u / φP_n controls

Truss-Leg Diagonal Data

Section No.	Elevation ft	Diagonal Size	L _d ft	Kl/r	φP _n lb	A in ²	V _u lb	φV _n lb	Stress Ratio
T4	230 - 220	0.5	1.47	120.0	238565.00	0.196	620.56	3446.37	0.181
T5	220 - 200	0.5	1.46	119.0	324713.00	0.196	443.34	3377.71	0.132
T6	200 - 180	0.5	1.46	119.0	324713.00	0.196	691.86	3377.71	0.205
T7	180 - 160	0.625	1.45	94.4	424115.00	0.307	681.72	6957.62	0.098
T8	160 - 140	0.625	1.43	93.6	536771.00	0.307	1271.18	7011.35	0.181
T9	140 - 120	0.625	1.43	93.6	536771.00	0.307	1462.13	7011.35	0.209
T10	120 - 100	0.75	1.73	93.9	662680.00	0.442	750.66	14363.90	0.053
T11	100 - 80	0.75	1.73	93.9	662680.00	0.442	792.32	14363.90	0.056
T12	80 - 60	0.75	1.71	93.1	801842.00	0.442	707.11	14530.80	0.049
T13	60 - 40	0.75	1.71	93.1	801842.00	0.442	844.48	14530.80	0.058
T14	40 - 20	0.875	1.70	79.1	954259.00	0.601	1193.59	23594.30	0.051
T15	20 - 0	0.875	1.70	79.1	954259.00	0.601	1347.52	23594.30	0.058

Diagonal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	280 - 270	7/8	5.48	2.66	131.4 K=0.90	0.601	-1600.24	7867.56	0.203 ¹
T2	270 - 250	7/8	5.54	2.68	132.1 K=0.90	0.601	-2170.03	7785.80	0.279 ¹
T3	250 - 230	1	5.54	2.65	114.6 K=0.90	0.785	-4580.67	13514.20	0.339 ¹
T4	230 - 220	L2 1/2x2 1/2x3/16	11.42	5.02	121.8	0.902	-4878.94	17325.70	0.282 ¹

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T5	220 - 200	L3x3x3/16	12.50	5.67	K=1.00 115.6	1.090	-4607.10	22519.40	0.205 ¹
T6	200 - 180	L3x3x3/16	13.80	6.37	K=1.01 128.2	1.090	-7101.58	18973.80	0.374 ¹
T7	180 - 160	L3x3x3/16	15.24	7.09	K=1.00 142.8	1.090	-8164.98	15300.10	0.534 ¹
T8	160 - 140	L3 1/2x3 1/2x5/16	16.80	7.89	K=1.00 137.3	2.090	-8793.97	31750.90	0.277 ¹
T9	140 - 120	L3 1/2x3 1/2x5/16	17.62	8.32	K=1.00 144.7	2.090	-10915.40	28578.70	0.382 ¹
T10	120 - 100	2L3 1/2x3 1/2x5/16	26.26	12.45	K=0.97 134.0	4.180	-15768.90	66615.20	0.237 ¹
T11	100 - 80	2L3 1/2x3 1/2x5/16	27.59	13.14	K=0.96 139.9	4.180	-15084.30	61155.60	0.247 ¹
T12	80 - 60	2L3 1/2x3 1/2x5/16	29.01	13.87	K=0.95 146.0	4.180	-14827.00	56125.60	0.264 ¹
T13	60 - 40	2L3 1/2x3 1/2x5/16	30.49	14.62	K=0.94 152.4	4.180	-16382.00	51524.50	0.318 ¹
T14	40 - 20	2L3 1/2x3 1/2x5/16	32.02	15.40	K=0.93 159.0	4.180	-14930.30	47337.80	0.315 ¹
T15	20 - 0	2L3 1/2x3 1/2x5/16	33.61	16.20	K=0.92 165.8	4.180	-18661.00	43541.90	0.429 ¹

¹ P_u / φP_n controls

Horizontal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	280 - 270	7/8	5.00	4.85	K=0.70 186.4	0.601	-149.23	3909.80	0.038 ¹
T2	270 - 250	7/8	5.00	4.83	K=0.70 185.6	0.601	-456.35	3943.57	0.116 ¹
T3	250 - 230	7/8	5.00	4.79	K=0.70 184.0	0.601	-1185.69	4012.46	0.296 ¹

¹ P_u / φP_n controls

Top Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	280 - 270	1	5.00	4.85	K=0.70 163.1	0.785	-638.09	6669.94	0.096 ¹

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T2	270 - 250	1	5.00	4.83	162.4 K=0.70	0.785	-729.81	6727.56	0.108 ¹
T3	250 - 230	1 1/4	5.00	4.79	128.8 K=0.70	1.227	-1345.73	16711.60	0.081 ¹
T6	200 - 180	L3x3x3/16	8.00	6.67	134.2 K=1.00	1.090	-2479.58	17315.60	0.143 ¹
T7	180 - 160	L4x4x1/4	10.00	8.60	129.9 K=1.00	1.940	-3147.40	32919.50	0.096 ¹
T8	160 - 140	L3 1/2x3 1/2x5/16	12.00	10.60	184.4 K=1.00	2.090	-3421.47	17588.40	0.195 ¹

¹ P_u / φP_n controls

Bottom Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	280 - 270	1	5.00	4.85	163.1 K=0.70	0.785	-624.02	6669.94	0.094 ¹
T2	270 - 250	1	5.00	4.83	162.4 K=0.70	0.785	-836.61	6727.56	0.124 ¹
T3	250 - 230	1 1/4	5.00	4.79	128.8 K=0.70	1.227	-1192.00	16711.60	0.071 ¹

¹ P_u / φP_n controls

Mid Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	280 - 270	1	5.00	4.85	163.1 K=0.70	0.785	-5.49	6669.94	0.001 ¹
T2	270 - 250	1	5.00	4.83	162.4 K=0.70	0.785	-164.55	6727.56	0.024 ¹
T6	200 - 180	L3x3x3/16	9.00	7.67	154.4 K=1.00	1.090	-2887.97	13093.10	0.221 ¹
T7	180 - 160	L4x4x1/4	11.00	9.60	145.0 K=1.00	1.940	-2581.63	26421.20	0.098 ¹

¹ P_u / φP_n controls

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Tension Checks

Leg Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	280 - 270	1 3/4	10.00	0.54	14.9	2.405	5562.27	108238.00	0.051 ¹
T2	270 - 250	2	20.00	0.54	13.0	3.142	22811.60	141372.00	0.161 ¹
T3	250 - 230	2 1/2	20.00	0.54	10.4	4.909	59258.60	220893.00	0.268 ¹
T4	230 - 220	Pirod 105245	10.02	10.02	37.8	5.301	62783.60	238565.00	0.263 ¹
T5	220 - 200	Pirod 105218	20.03	10.02	32.4	7.216	85203.40	324713.00	0.262 ¹
T6	200 - 180	Pirod 105218	20.03	10.02	32.4	7.216	106426.00	324713.00	0.328 ¹
T7	180 - 160	Pirod 105219	20.03	10.02	28.4	9.425	133491.00	424115.00	0.315 ¹
T8	160 - 140	Pirod 105220	20.03	10.02	25.2	11.928	166317.00	536771.00	0.310 ¹
T9	140 - 120	Pirod 105220	20.03	10.02	25.2	11.928	202692.00	536771.00	0.378 ¹
T10	120 - 100	Pirod 112743	20.03	20.03	32.6	14.726	226731.00	662680.00	0.342 ¹
T11	100 - 80	Pirod 112743	20.03	20.03	32.6	14.726	262630.00	662680.00	0.396 ¹
T12	80 - 60	Pirod 112744	20.03	20.03	32.6	17.819	295205.00	801842.00	0.368 ¹
T13	60 - 40	Pirod 112744	20.03	20.03	32.6	17.819	325663.00	801842.00	0.406 ¹
T14	40 - 20	Pirod 112745	20.03	20.03	32.5	21.206	356996.00	954259.00	0.374 ¹
T15	20 - 0	Pirod 112740	20.03	20.03	32.5	21.206	382301.00	954259.00	0.401 ¹

¹ P_u / φP_n controls

Truss-Leg Diagonal Data

Section No.	Elevation ft	Diagonal Size	L _d ft	Kl/r	φP _n lb	A in ²	V _u lb	φV _n lb	Stress Ratio
T4	230 - 220	0.5	1.47	120.0	238565.00	0.196	620.56	3446.37	0.181
T5	220 - 200	0.5	1.46	119.0	324713.00	0.196	443.34	3377.71	0.132
T6	200 - 180	0.5	1.46	119.0	324713.00	0.196	691.86	3377.71	0.205

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Section No.	Elevation ft	Diagonal Size	L_d ft	Kl/r	ϕP_n lb	A in ²	V_u lb	ϕV_n lb	Stress Ratio
T7	180 - 160	0.625	1.45	94.4	424115.00	0.307	681.72	6957.62	0.098
T8	160 - 140	0.625	1.43	93.6	536771.00	0.307	1271.18	7011.35	0.181
T9	140 - 120	0.625	1.43	93.6	536771.00	0.307	1462.13	7011.35	0.209
T10	120 - 100	0.75	1.73	93.9	662680.00	0.442	750.66	14363.90	0.053
T11	100 - 80	0.75	1.73	93.9	662680.00	0.442	792.32	14363.90	0.056
T12	80 - 60	0.75	1.71	93.1	801842.00	0.442	707.11	14530.80	0.049
T13	60 - 40	0.75	1.71	93.1	801842.00	0.442	844.48	14530.80	0.058
T14	40 - 20	0.875	1.70	79.1	954259.00	0.601	1193.59	23594.30	0.051
T15	20 - 0	0.875	1.70	79.1	954259.00	0.601	1347.52	23594.30	0.058

Diagonal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in ²	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	280 - 270	7/8	5.48	2.66	146.0	0.601	1548.43	27059.40	0.057 ¹
T2	270 - 250	7/8	5.54	2.68	146.8	0.601	2121.20	27059.40	0.078 ¹
T3	250 - 230	1	5.54	2.65	127.3	0.785	4443.54	35342.90	0.126 ¹
T4	230 - 220	L2 1/2x2 1/2x3/16	11.42	5.02	80.1	0.518	4232.70	22545.90	0.188 ¹
T5	220 - 200	L3x3x3/16	11.93	5.42	71.5	0.659	4273.91	28679.40	0.149 ¹
T6	200 - 180	L3x3x3/16	13.80	6.37	83.5	0.659	6086.77	28679.40	0.212 ¹
T7	180 - 160	L3x3x3/16	15.24	7.09	93.2	0.624	7123.73	27150.10	0.262 ¹
T8	160 - 140	L3 1/2x3 1/2x5/16	16.80	7.89	89.9	1.245	8861.03	54167.70	0.164 ¹
T9	140 - 120	L3 1/2x3 1/2x5/16	18.45	8.73	99.2	1.245	10251.00	54167.70	0.189 ¹
T10	120 - 100	2L3 1/2x3 1/2x5/16	26.26	12.45	141.6	2.608	14416.20	113433.00	0.127 ¹
T11	100 - 80	2L3 1/2x3 1/2x5/16	27.59	13.14	149.3	2.608	14601.50	113433.00	0.129 ¹
T12	80 - 60	2L3 1/2x3 1/2x5/16	29.01	13.87	157.3	2.608	14394.30	113433.00	0.127 ¹
T13	60 - 40	2L3 1/2x3 1/2x5/16	30.49	14.62	165.7	2.608	14991.50	113433.00	0.132 ¹
T14	40 - 20	2L3 1/2x3 1/2x5/16	32.02	15.40	174.3	2.608	15631.90	113433.00	0.138 ¹

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T15	20 - 0	2L3 1/2x3 1/2x5/16	33.61	16.20	183.2	2.608	16665.10	113433.00	0.147 ¹

¹ P_u / φP_n controls

Horizontal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	280 - 270	7/8	5.00	4.85	266.3	0.601	237.84	27059.40	0.009 ¹
T2	270 - 250	7/8	5.00	4.83	265.1	0.601	456.35	27059.40	0.017 ¹
T3	250 - 230	7/8	5.00	4.79	262.9	0.601	1185.69	27059.40	0.044 ¹

¹ P_u / φP_n controls

Top Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	280 - 270	1	5.00	4.85	233.0	0.785	624.42	35342.90	0.018 ¹
T2	270 - 250	1	5.00	4.83	232.0	0.785	726.35	35342.90	0.021 ¹
T3	250 - 230	1 1/4	5.00	4.79	184.0	1.227	1358.83	55223.30	0.025 ¹
T6	200 - 180	L3x3x3/16	8.00	6.67	89.5	0.659	3165.79	28679.40	0.110 ¹
T7	180 - 160	L4x4x1/4	10.00	8.60	86.4	1.197	4156.92	52077.70	0.080 ¹
T8	160 - 140	L3 1/2x3 1/2x5/16	12.00	10.60	122.2	1.245	3421.47	54167.70	0.063 ¹

¹ P_u / φP_n controls

Bottom Girt Design Data (Tension)

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	Client	Verizon Wireless	Designed by	Arielle Novak

Section No.	Elevation ft	Size	L ft	L _u ft	KI/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	280 - 270	1	5.00	4.85	233.0	0.785	647.24	35342.90	0.018 ¹
T2	270 - 250	1	5.00	4.83	232.0	0.785	868.83	35342.90	0.025 ¹
T3	250 - 230	1 1/4	5.00	4.79	184.0	1.227	1192.00	55223.30	0.022 ¹

¹ P_u / φP_n controls

Mid Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	KI/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	280 - 270	1	5.00	4.85	233.0	0.785	92.52	35342.90	0.003 ¹
T2	270 - 250	1	5.00	4.83	232.0	0.785	250.97	35342.90	0.007 ¹
T6	200 - 180	L3x3x3/16	9.00	7.67	102.2	0.659	3861.81	28679.40	0.135 ¹
T7	180 - 160	L4x4x1/4	11.00	9.60	96.0	1.197	3489.93	52077.70	0.067 ¹

¹ P_u / φP_n controls

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	φP _{allow} lb	% Capacity	Pass Fail
T1	280 - 270	Leg	1 3/4	2	-7265.98	81928.90	8.9	Pass
T2	270 - 250	Leg	2	41	-24967.20	111479.00	22.4	Pass
T3	250 - 230	Leg	2 1/2	107	-65465.90	189738.00	34.5	Pass
T4	230 - 220	Leg	Pirod 105245	171	-71868.80	214859.00	33.4	Pass
T5	220 - 200	Leg	Pirod 105218	179	-97244.90	300681.00	32.3	Pass
T6	200 - 180	Leg	Pirod 105218	194	-122375.00	300681.00	40.7	Pass
T7	180 - 160	Leg	Pirod 105219	215	-155746.00	399868.00	38.9	Pass
T8	160 - 140	Leg	Pirod 105220	236	-197293.00	512375.00	38.5	Pass
T9	140 - 120	Leg	Pirod 105220	254	-240987.00	512375.00	47.0	Pass
T10	120 - 100	Leg	Pirod 112743	269	-268682.00	613145.00	43.8	Pass
T11	100 - 80	Leg	Pirod 112743	278	-312565.00	613145.00	51.0	Pass
T12	80 - 60	Leg	Pirod 112744	287	-352750.00	741993.00	47.5	Pass
T13	60 - 40	Leg	Pirod 112744	296	-390363.00	741993.00	52.6	Pass
T14	40 - 20	Leg	Pirod 112745	306	-431195.00	883145.00	48.8	Pass
T15	20 - 0	Leg	Pirod 112740	315	-463501.00	883145.00	52.5	Pass
T1	280 - 270	Diagonal	7/8	14	-1600.24	7867.56	20.3	Pass
T2	270 - 250	Diagonal	7/8	52	-2170.03	7785.80	27.9	Pass
T3	250 - 230	Diagonal	1	115	-4580.67	13514.20	33.9	Pass
T4	230 - 220	Diagonal	L2 1/2x2 1/2x3/16	174	-4878.94	17325.70	28.2	Pass

46.3 (b)

tnxTower Centerline Communications 750 West Center Street, Suite 301 West Bridgewater, MA 02379 Phone: 781-713-4725 FAX:	Job	Woodbridge North CT	Page	37 of 37
	Project	RF Filter Add	Date	09:15:33 08/11/23
	Client	Verizon Wireless	Designed by	Arielle Novak

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail	
T5	220 - 200	Diagonal	L3x3x3/16	183	-4607.10	22519.40	20.5 42.1 (b)	Pass	
T6	200 - 180	Diagonal	L3x3x3/16	204	-7101.58	18973.80	37.4 59.9 (b)	Pass	
T7	180 - 160	Diagonal	L3x3x3/16	227	-8164.98	15300.10	53.4 69.3 (b)	Pass	
T8	160 - 140	Diagonal	L3 1/2x3 1/2x5/16	245	-8793.97	31750.90	27.7 43.1 (b)	Pass	
T9	140 - 120	Diagonal	L3 1/2x3 1/2x5/16	266	-10915.40	28578.70	38.2 49.9 (b)	Pass	
T10	120 - 100	Diagonal	2L3 1/2x3 1/2x5/16	275	-15768.90	66615.20	23.7	Pass	
T11	100 - 80	Diagonal	2L3 1/2x3 1/2x5/16	284	-15084.30	61155.60	24.7	Pass	
T12	80 - 60	Diagonal	2L3 1/2x3 1/2x5/16	293	-14827.00	56125.60	26.4	Pass	
T13	60 - 40	Diagonal	2L3 1/2x3 1/2x5/16	302	-16382.00	51524.50	31.8	Pass	
T14	40 - 20	Diagonal	2L3 1/2x3 1/2x5/16	312	-14930.30	47337.80	31.5	Pass	
T15	20 - 0	Diagonal	2L3 1/2x3 1/2x5/16	320	-18661.00	43541.90	42.9	Pass	
T1	280 - 270	Horizontal	7/8	32	-149.23	3909.80	3.8	Pass	
T2	270 - 250	Horizontal	7/8	57	-456.35	3943.57	11.6	Pass	
T3	250 - 230	Horizontal	7/8	127	-1185.69	4012.46	29.6	Pass	
T1	280 - 270	Top Girt	1	5	-638.09	6669.94	9.6	Pass	
T2	270 - 250	Top Girt	1	43	-729.81	6727.56	10.8	Pass	
T3	250 - 230	Top Girt	1 1/4	109	-1345.73	16711.60	8.1	Pass	
T6	200 - 180	Top Girt	L3x3x3/16	198	-2479.58	17315.60	14.3 31.1 (b)	Pass	
T7	180 - 160	Top Girt	L4x4x1/4	219	-3147.40	32919.50	9.6 25.3 (b)	Pass	
T8	160 - 140	Top Girt	L3 1/2x3 1/2x5/16	238	-3421.47	17588.40	19.5	Pass	
T1	280 - 270	Bottom Girt	1	9	-624.02	6669.94	9.4	Pass	
T2	270 - 250	Bottom Girt	1	45	-836.61	6727.56	12.4	Pass	
T3	250 - 230	Bottom Girt	1 1/4	112	-1192.00	16711.60	7.1	Pass	
T1	280 - 270	Mid Girt	1	10	92.52	35342.90	0.3	Pass	
T2	270 - 250	Mid Girt	1	48	-164.55	6727.56	2.4	Pass	
T6	200 - 180	Mid Girt	L3x3x3/16	201	-2887.97	13093.10	22.1 38.0 (b)	Pass	
T7	180 - 160	Mid Girt	L4x4x1/4	222	-2581.63	26421.20	9.8 21.2 (b)	Pass	
							Summary		
							Leg (T13)	52.6	Pass
							Diagonal (T7)	69.3	Pass
							Horizontal (T3)	29.6	Pass
							Top Girt (T6)	31.1	Pass
							Bottom Girt (T2)	12.4	Pass
							Mid Girt (T6)	38.0	Pass
							Bolt Checks	69.3	Pass
							RATING =	69.3	Pass

Project Information	
BU #	
Site Name	Woodbridge North CT
Order #	

Tower Information	
Tower Type	Self Support
TIA-222 Rev	H

Apply TIA-222-H Section 15.5

Applied Loads		
	Comp.	Uplift
Axial (k)	483.77	397.16
Shear (k)	50.80	42.95

Anchor Rod Data	
Quantity:	6
Diameter (in):	2
<u>Material Grade:</u>	A687
Grout Considered:	
l_{ar} (in):	3.5
Eta Factor, η :	
Thread Type:	N-Included
Configuration:	Symmetrical

Fy=105 ksi Fu=150 ksi
Not Considered, $l_{ar}>3$

Anchor Rod Results	
Axial, Pu_c (kips)	80.63
Shear, Vu (kips)	8.47
Moment, Mu (kip-in)	19.26
Axial Cap., ϕPn_c (kips)	262.50
Shear Cap., ϕVn (kips)	78.75
Moment Cap., ϕMn (kip-in)	89.44
Stress Rating	53.4%

Pass

SST Unit Base Foundation

BU # :

Site Name:

App. Number:

TIA-222 Revision:

Top & Bot. Pad Rein. Different?:

Tower Centroid Offset?:

Block Foundation?:

Superstructure Analysis Reactions		
Global Moment, M :	10717.261	ft-kips
Global Axial, P :	125.382	kips
Global Shear, V :	75.229	kips
Leg Compression, P_{comp} :	483.766	kips
Leg Comp. Shear, V_{u,comp} :	50.802	kips
Leg Uplift, P_{uplift} :	397.155	kips
Leg Uplift. Shear, V_{u,uplift} :	42.949	kips
Tower Height, H :	280	ft
Base Face Width, BW :	28	ft
BP Dist. Above Fdn, bp_{dist} :		in

Foundation Analysis Checks				
	Capacity	Demand	Rating*	Check
Lateral (Sliding) (kips)	603.46	75.23	11.9%	Pass
Bearing Pressure (ksf)	7.50	1.93	25.8%	Pass
Overtuning (kip*ft)	21355.89	11206.25	52.5%	Pass
Pier Flexure (Comp.) (kip*ft)	3225.10	165.11	4.9%	Pass
Pier Flexure (Tension) (kip*ft)	1859.33	139.58	7.1%	Pass
Pier Compression (kip)	9815.13	498.39	4.8%	Pass
Pad Flexure (kip*ft)	13519.41	2143.61	15.1%	Pass
Pad Shear - 1-way (kips)	1485.15	262.50	16.8%	Pass
Pad Shear - Comp 2-way (ksj)	0.190	0.050	25.3%	Pass
Flexural 2-way (Comp) (kip*ft)	7369.78	99.06	1.3%	Pass
Pad Shear - Tension 2-way (ksj)	0.190	0.044	22.1%	Pass
Flexural 2-way (Tension) (kip*ft)	7369.78	83.75	1.1%	Pass

*Rating per TIA-222-H Section 15.5

Soil Rating*:	52.5%
Structural Rating*:	25.3%

Pier Properties		
Pier Shape:	Square	
Pier Diameter, dpier :	5.0	ft
Ext. Above Grade, E :	0.50	ft
Pier Rebar Size, Sc :	9	
Pier Rebar Quantity, mc :	23	
Pier Tie/Spiral Size, St :	4	
Pier Tie/Spiral Quantity, mt :		
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier} :	3	in

Pad Properties		
Depth, D :	6.00	ft
Pad Width, W :	38.50	ft
Pad Thickness, T :	3.25	ft
Pad Rebar Size (Bottom), Sp :	11	
Pad Rebar Quantity (Bottom), mp :	60	
Pad Clear Cover, cc_{pad} :	3	in

Material Properties		
Rebar Grade, Fy :	60	ksi
Concrete Compressive Strength, F'c :	4	ksi
Dry Concrete Density, δc :	150	pcf

Soil Properties		
Total Soil Unit Weight, γ :	120	pcf
Ultimate Gross Bearing, Qult :	10.000	ksf
Cohesion, Cu :	0.000	ksf
Friction Angle, φ :	40	degrees
SPT Blow Count, N_{blows} :		
Base Friction, μ :	0.45	
Neglected Depth, N :	3.3	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, gw :	None	ft

<- Toggle between Gross and Net



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Stamford, CT 06901
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Antenna Mount Analysis Report and PMI Requirements

Mount ReAnalysis

SMART Tool Project #: 10208067
Colliers Engineering & Design Project #: 23777222

August 3, 2023

Site Information

Site ID: 5000386085-VZW/ WOODBRIDGE NORTH CT
Site Name: WOODBRIDGE NORTH CT
Carrier Name: Verizon Wireless
Address: 6 Progress Ave
Seymour, Connecticut 06483
New Haven County
Latitude: 41.391528°
Longitude: -73.053333°

Structure Information

Tower Type: 250-Ft Self Support
Mount Type: 12.50-Ft Sector Frame

FUZE ID # 17123839

Analysis Results

Sector Frame: **46.9% Pass***

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

***Contractor PMI Requirements:

Included at the end of this MA report
Available & Submitted via portal at <https://pmi.vzwsmart.com>

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

Report Prepared By: Gilberto Martinez



Executive Summary:

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

This analysis is inclusive of the mount structure only and does not address the structural capacity of the supporting structure. This mounting frame was not analyzed as an anchor attachment point for fall protection. All climbing activities are required to have a fall protection plan completed by a competent person.

Sources of Information:

Document Type	Remarks
<i>Radio Frequency Data Sheet (RFDS)</i>	<i>Verizon RFDS, Site ID: 1126653, dated November 17, 2020</i>
<i>Final Loading Configuration</i>	<i>Filter Add Scope Provided by Verizon Wireless</i>
<i>Previous Replacement Mount Analysis</i>	<i>Maser Consulting Connecticut, Project #: 20777396, Dated April 12, 2022</i>
<i>Post Modification Inspection Report</i>	<i>Colliers Engineering & Design, Project #: 20777396, Dated January 23, 2023</i>

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H 2022 Connecticut State Building Code (CSBC), Effective October 1, 2022
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 120 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.00 in Risk Category: II Exposure Category: B Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, K_e : 0.983
Seismic Parameters:	S_s : 0.200 g S_1 : 0.054 g
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph Maintenance Live Load, L_v : 250 lbs. Maintenance Live Load, L_m : 500 lbs.
Analysis Software:	RISA-3D (V17)

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
140.00	140.00	6	JMA Wireless	MX06FRO660-03	Retained
		3	Samsung	nL-Sub 6 Antenna	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		6	Antel	LPA-80063/6CF	
		2	Raycap	RRFDC-3315-PF-48*	
		2	KAelus	KA-6030	Added

*These existing OVPs are directly attached to the tower and as such are not included in this mount analysis.

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

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

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Colliers Engineering & Design and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Colliers Engineering & Design to verify deviation will not adversely impact the analysis.
2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.

5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Colliers Engineering & Design is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
 - o Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - o HSS (Rectangular) ASTM 500 (Gr. B-46)
 - o Pipe ASTM A53 (Gr. B-35)
 - o Threaded Rod F1554 (Gr. 36)
 - o Bolts ASTM A325

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

Analysis Results:

Component	Utilization %	Pass/Fail
Face Horizontal	27.1 %	Pass
Standoff Plate	46.9 %	Pass
Standoff Horizontal	21.8 %	Pass
Standoff Diagonal	8.6 %	Pass
Antenna Pipe	39.6 %	Pass
Standoff Vertical	4.3 %	Pass
Tieback	18.5 %	Pass
Mount Connection	16.2 %	Pass

Structure Rating – (Controlling Utilization of all Components)	46.9%
---	--------------

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

Ice Thickness (In)	Mount Pipes Excluded		Mount Pipes Included	
	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)
0	16.9	12.7	26.0	21.8
0.5	23.5	22.5	38.9	33.1
1	31.3	30.0	51.1	43.8

Notes:

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

Requirements:

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

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

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

Attachments:

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

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

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

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

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

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

PSLC #: 5000386085

SMART Project #: 10208067

Fuze Project ID: 17123839

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

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

Base Requirements:

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

Photo Requirements:

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

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

Antenna & equipment placement and Geometry Confirmation:

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

OR

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

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

Issue:

Response:

Special Instruction Confirmation:

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

OR

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

Comments:

--

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

Yes No

Contractor certifies no new damage created during the current installation:

Yes No

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

Safety Climb in Good Condition Safety Climb Damaged

Certifying Individual:

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

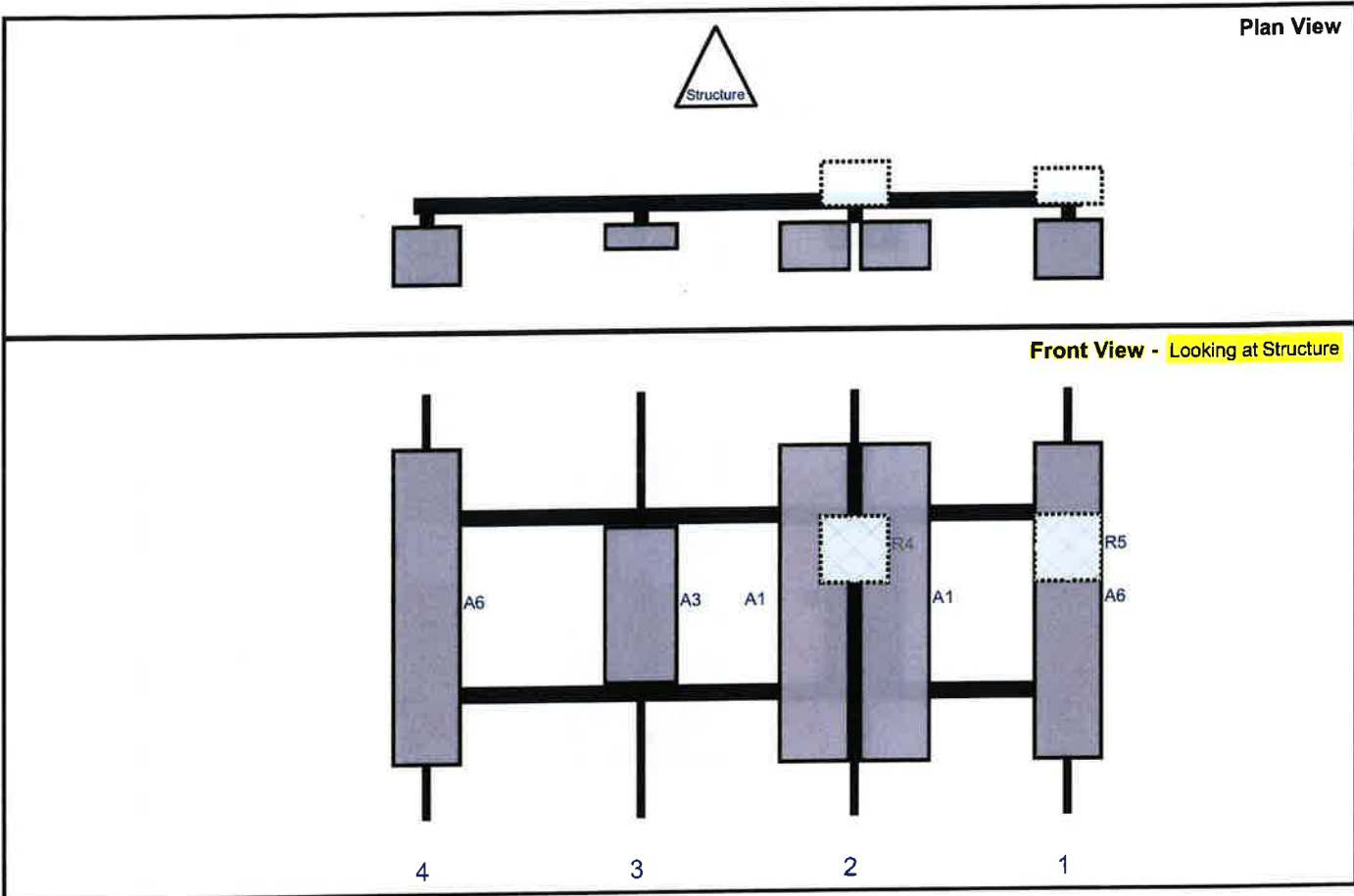
Sector: **A**
 Structure Type: Self Support
 Mount Elev: 140.00

10208067

8/2/2023



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Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A6	LPA-80063/6CF	70.9	15	147	1	a	Front	48	0	Retained	01/05/2023
R5	B5/B13 RRH-BR04C	15	15	147	1	a	Behind	36	0	Retained	01/05/2023
A1	MX06FRO660-03	71.3	15.4	99	2	a	Front	48	9	Retained	01/05/2023
A1	MX06FRO660-03	71.3	15.4	99	2	b	Front	48	-9	Retained	01/05/2023
R4	B2/B66A RRH-BR049	15	15	99	2	a	Behind	36	0	Retained	01/05/2023
A3	nL-Sub 6 Antenna	35.1	16.1	51	3	a	Front	48	0	Retained	01/05/2023
A6	LPA-80063/6CF	70.9	15	3	4	a	Front	48	0	Retained	01/05/2023

Structure: 5000386085-VZW - WOODBRIDGE NORTH CT

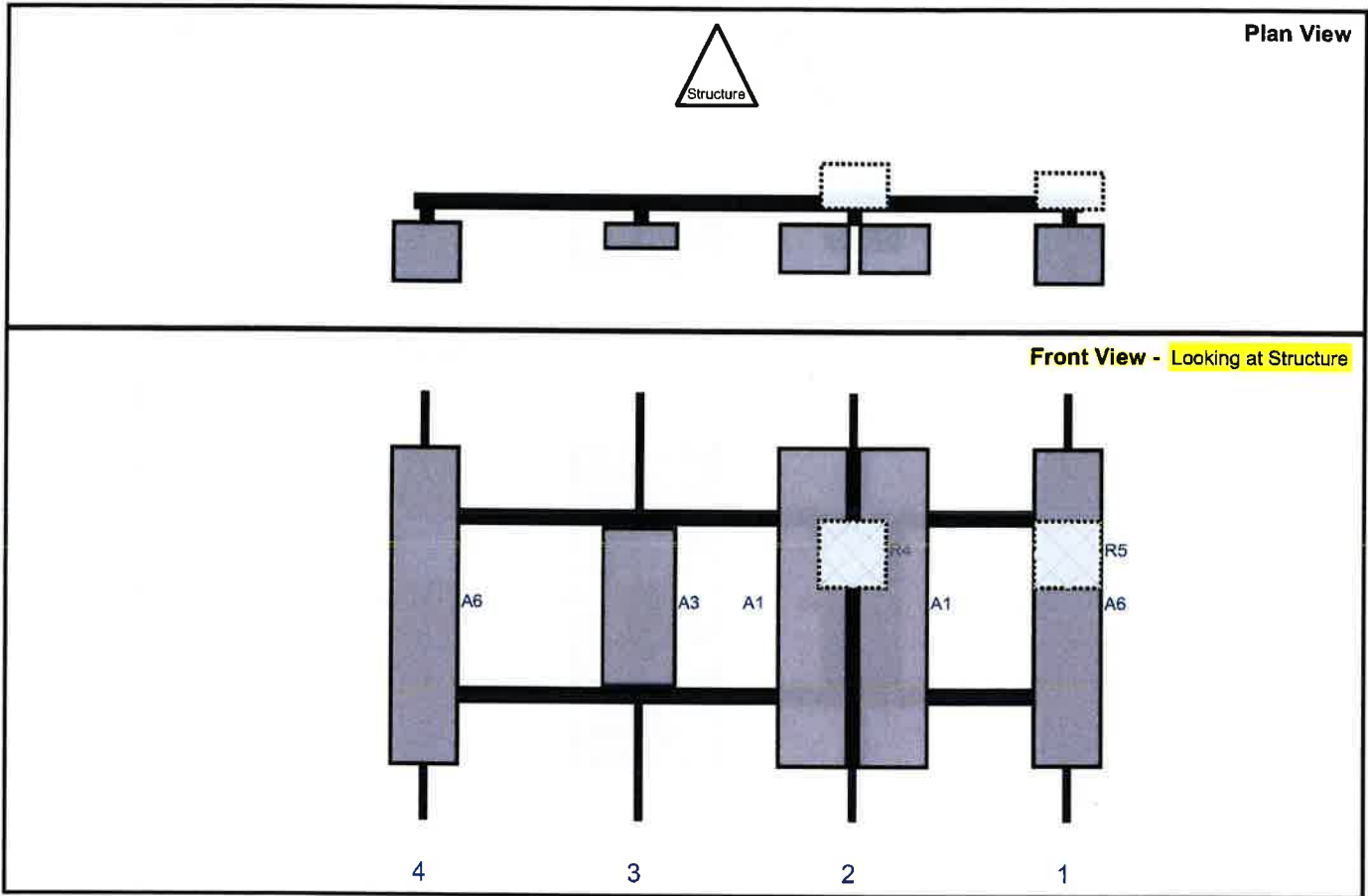
Sector: **B**
 Structure Type: Self Support
 Mount Elev: 140.00

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8/2/2023



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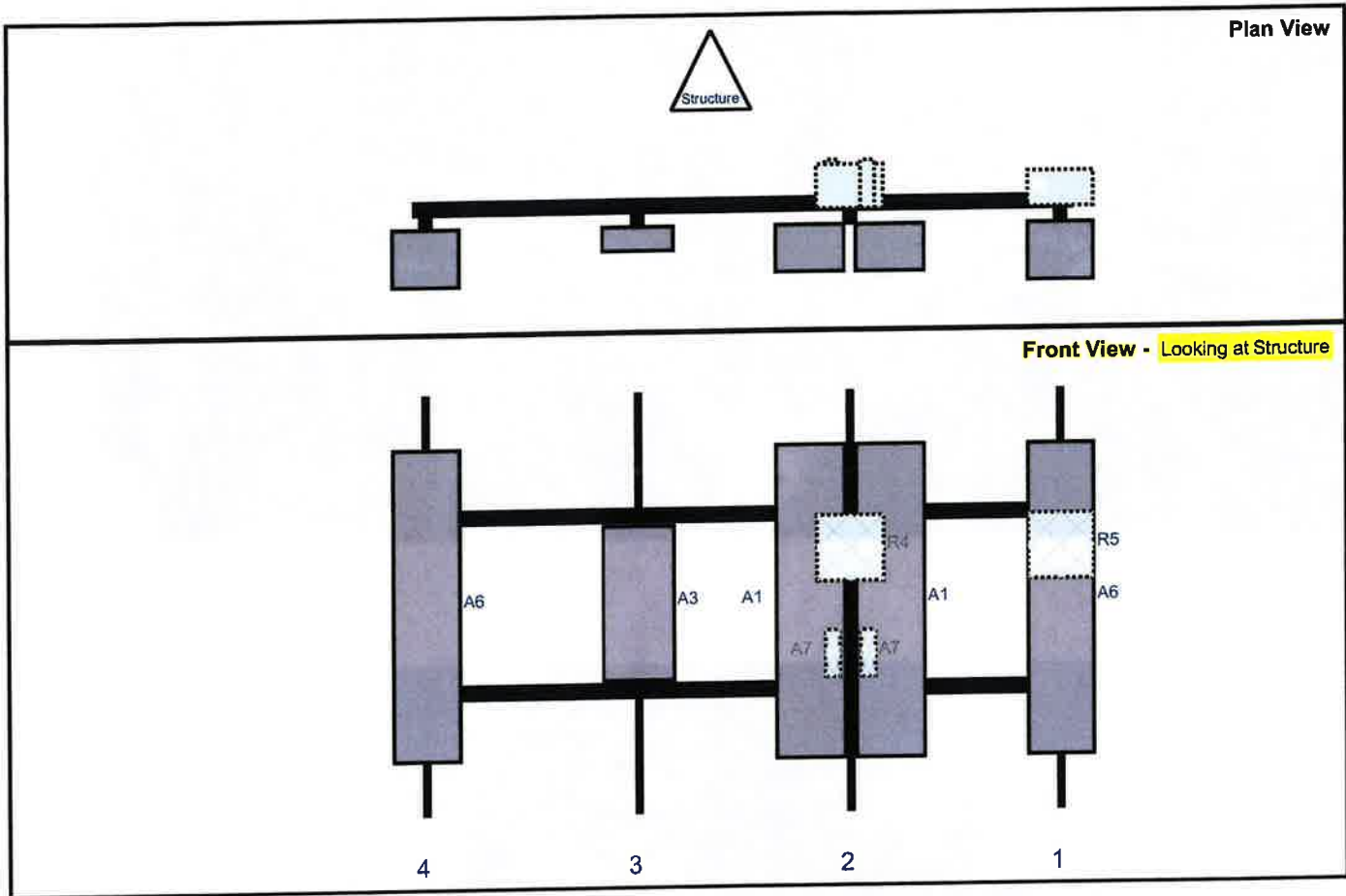
Ref#	Model	Height (in)	Width (in)	H Dist Fm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Fm T.	Ant H Off	Status	Validation
A6	LPA-80063/6CF	70.9	15	147	1	a	Front	48	0	Retained	01/05/2023
R5	B5/B13 RRH-BR04C	15	15	147	1	a	Behind	36	0	Retained	01/05/2023
A1	MX06FRO660-03	71.3	15.4	99	2	a	Front	48	-9	Retained	01/05/2023
A1	MX06FRO660-03	71.3	15.4	99	2	b	Front	48	9	Retained	01/05/2023
R4	B2/B66A RRH-BR049	15	15	99	2	a	Behind	36	0	Retained	01/05/2023
A3	nL-Sub 6 Antenna	35.1	16.1	51	3	a	Front	48	0	Retained	01/05/2023
A6	LPA-80063/6CF	70.9	15	3	4	a	Front	48	0	Retained	01/05/2023

Sector: C

Structure Type: Self Support

10208067

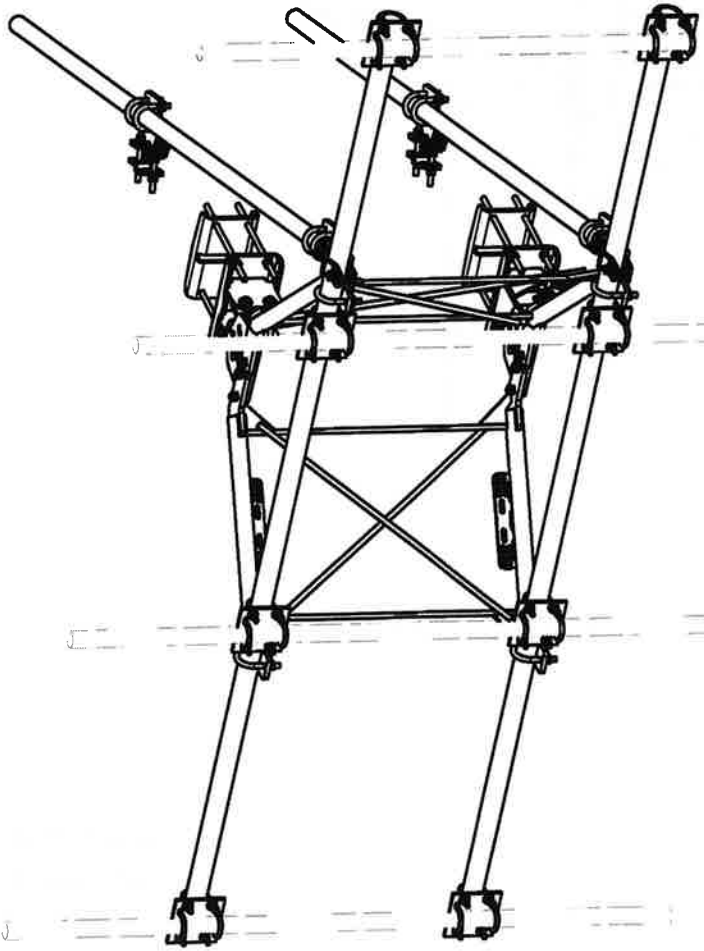
Mount Elev: 140.00



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A6	LPA-80063/6CF	70.9	15	147	1	a	Front	48	0	Retained	01/05/2023
R5	B5/B13 RRH-BR04C	15	15	147	1	a	Behind	36	0	Retained	01/05/2023
A1	MX06FRO660-03	71.3	15.4	99	2	a	Front	48	9	Retained	01/05/2023
A1	MX06FRO660-03	71.3	15.4	99	2	b	Front	48	-9	Retained	01/05/2023
R4	B2/B66A RRH-BR049	15	15	99	2	a	Behind	36	0	Retained	01/05/2023
A7	KA-6030	10.6	3.2	99	2	a	Behind	60	4	Added	
A7	KA-6030	10.6	3.2	99	2	b	Behind	60	-4	Added	
A3	nL-Sub 6 Antenna	35.1	16.1	51	3	a	Front	48	0	Retained	01/05/2023
A6	LPA-80063/6CF	70.9	15	3	4	a	Front	48	0	Retained	01/05/2023



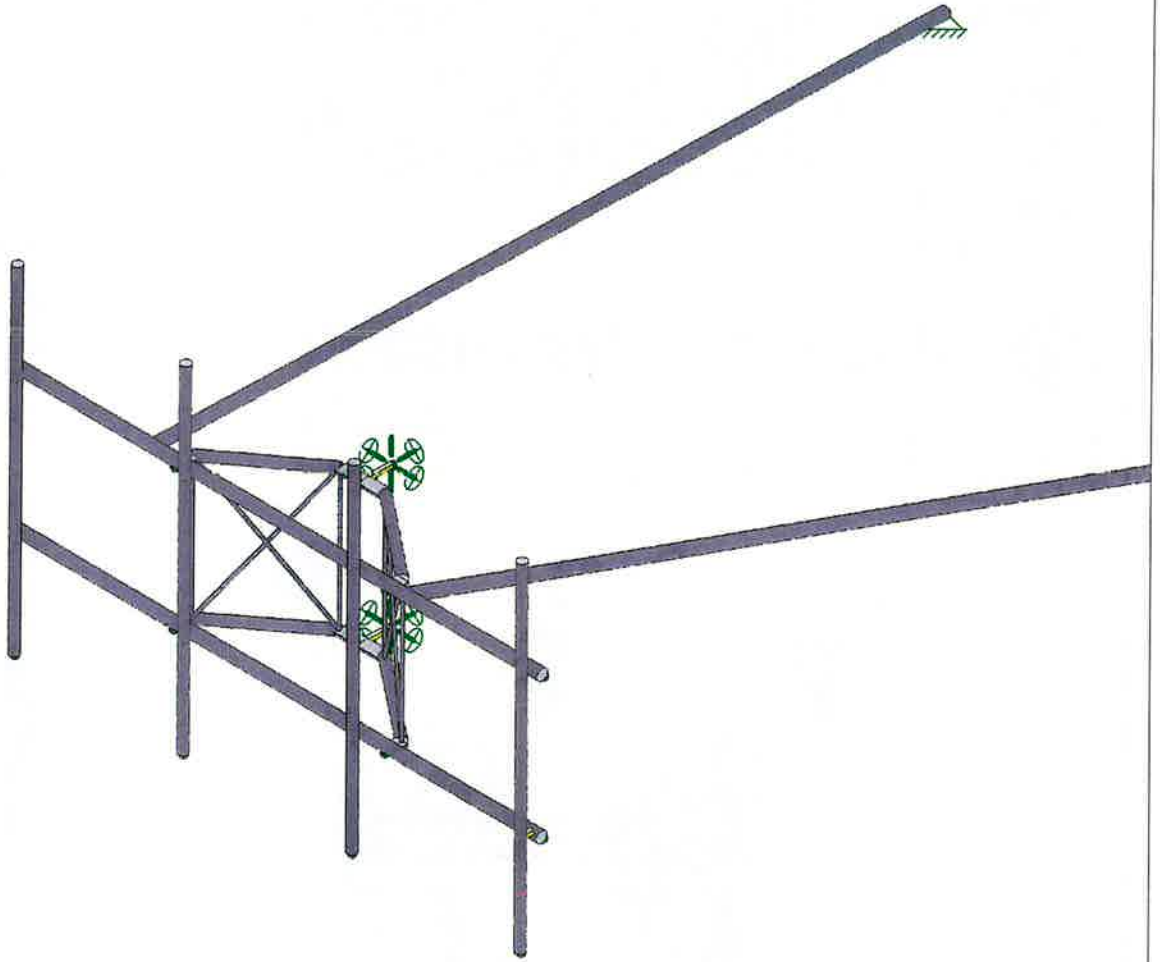
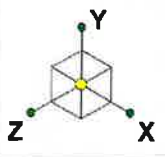
PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	2	X-VFAW	SUPPORT ARM		71.41	142.81
2	1	X-HDCAMTBW	CLAMP WELDMENT FOR BCAM-HD		33.86	33.86
3	1	X-MHTPHD	MULTI-HOLE TAPER PLATE WELDMENT		36.24	36.24
4	2	X-VFAPL4	VFA-HD PIVOT PLATE	12 in	15.88	31.77
5	2	X-LCBP4	BENT BACKING PLATE	13 in	18.00	36.01
6	1	X-HDCAMSS	ANGLE ADJUSTMENT WELDMENT FOR BCAM-HD		16.39	16.39
7	4	X-SPTB	SLIDING PIPE TIE BACK PLATE	5 1/2 in	5.87	23.48
8	1	X-HDCAMSP	POSITIONING PLATE WELDMENT FOR BCAM-HD		2.58	2.58
9	4	X-TBCA	TIE BACK CLIP ANGLE		2.01	8.02
10	8	SCX2	CROSSOVER PLATE	7 in	4.80	38.37
11	4	MCP	CLAMP HALF 1/2" THICK, 11-5/8" LONG	12 1/16 in	3.59	14.37
12	8	DCP	1/2" THICK, 5-3/4" CENTER TO CENTER CLAMP HALF	8 1/8 in	2.36	18.90
13	2	P2126	2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE	126 in	40.75	81.50
14	2	P30150	2-7/8" X 150" (2-1/2" SCH. 40) GALVANIZED PIPE	150 in	76.94	153.87
15	4	A34212	3/4" X 2-1/2" UNC HEX BOLT (A325)	2 1/2 in	0.48	1.92
16	4	G34FW	3/4" HDG USS FLATWASHER		0.06	0.24
17	4	G34LW	3/4" HDG LOCKWASHER		0.04	0.17
18	4	G34NUT	3/4" HDG HEAVY 2H HEX NUT		0.21	0.85
19	8	G58R-18	5/8" X 18" THREADED ROD (HDG.)	18 in	0.40	3.19
20	4	G58R-12	5/8" X 12" THREADED ROD (HDG.)		1.05	4.18
21	4	G58R-8	5/8" X 8" THREADED ROD (HDG.)		0.70	2.79
22	4	X-UBS300	5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.)		1.15	4.60
23	8	X-UBS258	5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.)	7 in	1.00	8.00
24	2	G5807	5/8" X 7" HDG HEX BOLT GR5 FULL THREAD	6 in	0.62	0.62
25	1	G5806	5/8" X 8" HDG HEX BOLT GR5 FULL THREAD		0.44	3.55
26	8	G5804	5/8" X 4" HDG HEX BOLT GR5		0.27	1.08
27	4	G5802	5/8" X 2" HDG HEX BOLT GR5	2 1/4 in	0.31	2.50
28	8	A582114	5/8" X 2-1/4" HDG A325 HEX BOLT	1/8 in	0.07	1.76
29	25	G58FW	5/8" HDG USS FLATWASHER		1.72	43.00
30	66	G58LW	5/8" HDG LOCKWASHER		0.03	2.02
31	71	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	9.22
32	32	X-UB1300	1/2" X 3" X 5" X 2" GALV U-BOLT		0.74	23.84
33	16	X-UB1212	1/2" X 2" X 3" X 1-1/4" U-BOLT (HDG.)		0.60	9.56
34	64	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	2.18
35	64	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.88
36	64	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	4.58
					TOTAL WT. #	736.06



DESCRIPTION		12" 6" HEAVY DUTY V-FRAME ASSEMBLY WITH TWO STIFF ARMS	
CPD NO.	DRAWN BY	ENG. APPROVAL	CHECKED BY
	CEK	1/25/2017	BMC
CLASS	SUB	DRYING USAGE	CUSTOMER
81	02		
PART NO.		VFA12-HD	
DWS. NO.		VFA12-HD	

TOLERANCE NOTES
 TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
 SAWS, SHEARED AND GAS CUT EDGES (± 0.0307)
 DRILLED AND GAS CUT HOLES (± 0.0097) - NO CONING OF HOLES
 LASER CUT EDGES AND HOLES (± 0.0097) - NO CONING OF HOLES
 BENDS ARE ± 1/2 DEGREE
 ALL OTHER MACHINING (± 0.0097)
 ALL DIMENSIONS UNLESS OTHERWISE NOTED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMET INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMET INDUSTRIES IS PROHIBITED.

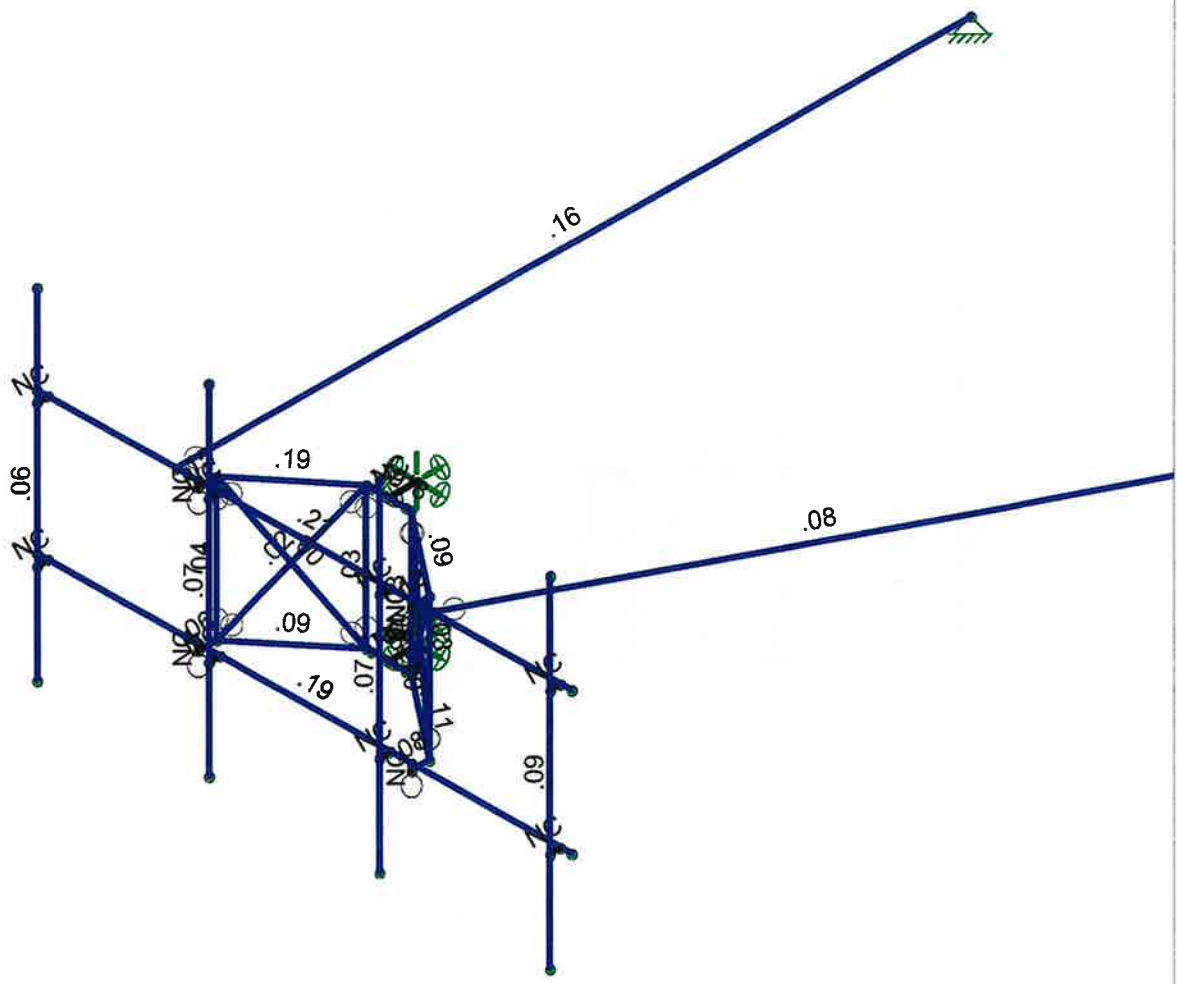
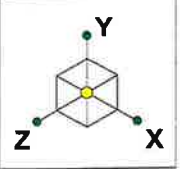
REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
D	UPDATED BCAM VERSION 1 TO BCAM VERSION 2	CEK		6/29/2018
C	UPDATED PIN LEG CONNECTION TO B-CAM CONNECTION	CEK		12/7/2017
B	CHANGED TIE-BACK BACK CONNECTION	CEK		7/31/2017
A	CHANGED TIE-BACK FRONT CONNECTION	CEK		2/2/2017
REVISION HISTORY				



		SK - 1
		Aug 2, 2023 at 10:15 PM
		5000386085-VZW_MT_LOT_A_H.r3d

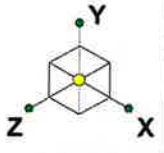
Code Check
(LC 1)

- No Calc
- > 1.0
- .90-1.0
- .75-.90
- .50-.75
- 0-.50



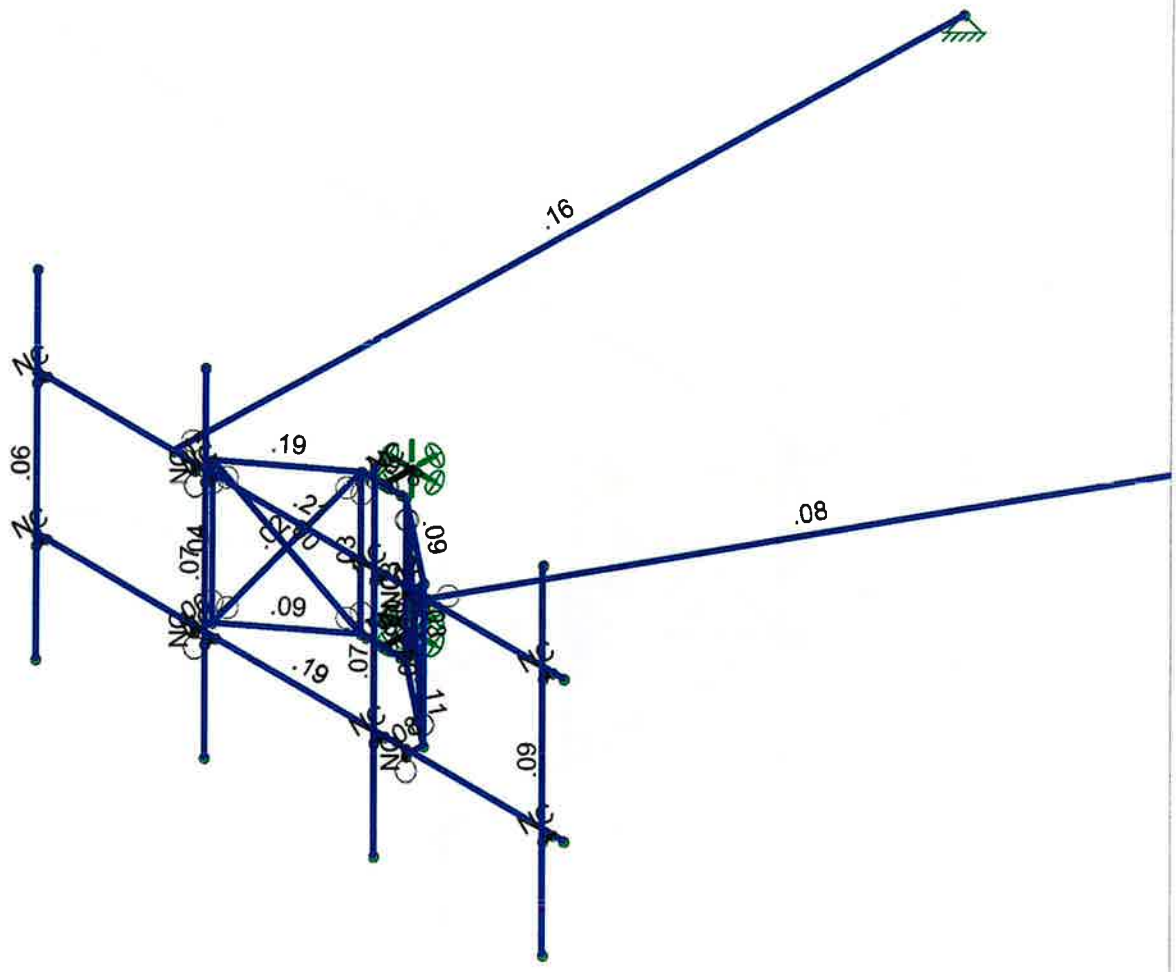
Member Code Checks Displayed
Results for LC 1, 1.2D+1.0Wo (0 Deg)

		SK - 2
		Aug 2, 2023 at 10:15 PM
		5000386085-VZW_MT_LOT_A_H.r3d



Code Check
(LC 1)

- No Calc
- > 1.0
- .90-1.0
- .75-.90
- .50-.75
- 0-.50



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

	SK - 3
	Aug 2, 2023 at 10:16 PM
	5000386085-VZW_MT_LOT_A_H.r3d



Company :
 Designer :
 Job Number :
 Model Name :

Aug 2, 2023
 10:14 PM
 Checked By: _____

Basic Load Cases

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

Basic Load Cases (Continued)

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...)	Surface(P...
59 Structure Wi (180 De...	None						56	
60 Structure Wi (210 De...	None						56	
61 Structure Wi (240 De...	None						56	
62 Structure Wi (270 De...	None						56	
63 Structure Wi (300 De...	None						56	
64 Structure Wi (330 De...	None						56	
65 Structure Wm (0 Deg)	None						56	
66 Structure Wm (30 De...	None						56	
67 Structure Wm (60 De...	None						56	
68 Structure Wm (90 De...	None						56	
69 Structure Wm (120 D...	None						56	
70 Structure Wm (150 D...	None						56	
71 Structure Wm (180 D...	None						56	
72 Structure Wm (210 D...	None						56	
73 Structure Wm (240 D...	None						56	
74 Structure Wm (270 D...	None						56	
75 Structure Wm (300 D...	None						56	
76 Structure Wm (330 D...	None						56	
77 Lm1	None					1		
78 Lm2	None					1		
79 Lv1	None					1		
80 Lv2	None					1		
81 Antenna Ev	None					36		
82 Antenna Eh (0 Deg)	None					24		
83 Antenna Eh (90 Deg)	None					24		
84 Structure Ev	ELY		-043					
85 Structure Eh (0 Deg)	ELZ			-107				
86 Structure Eh (90 Deg)	ELX	.107						

Load Combinations

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



Company :
 Designer :
 Job Number :
 Model Name :

Aug 2, 2023
 10:14 PM
 Checked By: _____

Load Combinations (Continued)

	Description	Sol.	PD.	SR.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.
27	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1	
28	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1	
29	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1	
30	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1	
31	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1	
32	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1	
33	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1	
34	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1	
35	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1	
36	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1	
37	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1	
38	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1	
39	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1	
40	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1	
41	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1	
42	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1	
43	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1	
44	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1	
45	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1	
46	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1	
47	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1	
48	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1	
49	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	79	1.5					
50	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	80	1.5					
51	1.4D	Yes	Y		1	1.4	39	1.4							
52	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	1	83
53	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.866	83
54	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.5	83
55	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82		83
56	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.5	83
57	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.866	83
58	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-1	83
59	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.866	83
60	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.5	83
61	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82		83
62	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.5	83
63	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.866	83
64	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	1	83
65	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.866	83
66	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.5	83
67	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82		83
68	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.5	83
69	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.866	83
70	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-1	83
71	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.866	83
72	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.5	83
73	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82		83
74	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.5	83
75	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.866	83

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	-8.833333	0.145833	8.083333	0	



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Joint Coordinates and Temperatures (Continued)

	Label	X (ft)	Y (ft)	Z (ft)	Temp (F)	Detach From Diap...
6	N6	-8.833333	3.479167	8.083333	0	
7	N7	-4.833333	0.145833	8.083333	0	
8	N8	-4.833333	3.479167	8.083333	0	
9	N9	-0.833333	0.145833	8.083333	0	
10	N10	-0.833333	3.479167	8.083333	0	
11	N11	3.166667	0.145833	8.083333	0	
12	N12	3.166667	3.479167	8.083333	0	
13	N13	-8.833333	0.145833	8.333333	0	
14	N14	-8.833333	3.479167	8.333333	0	
15	N15	-4.833333	0.145833	8.333333	0	
16	N16	-4.833333	3.479167	8.333333	0	
17	N17	-0.833333	0.145833	8.333333	0	
18	N18	-0.833333	3.479167	8.333333	0	
19	N19	3.166667	0.145833	8.333333	0	
20	N20	3.166667	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	5.453125	0	
36	N36	-2.833333	3.333333	5.453125	0	
37	N39	-8.833333	5.8125	8.333333	0	
38	N40	-4.833333	5.8125	8.333333	0	
39	N41	-0.833333	5.8125	8.333333	0	
40	N42	3.166667	5.8125	8.333333	0	
41	N43	-8.833333	-2.1875	8.333333	0	
42	N44	-4.833333	-2.1875	8.333333	0	
43	N45	-0.833333	-2.1875	8.333333	0	
44	N46	3.166667	-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	
57	N61	-0.333333	0.145833	8.083333	0	
58	N62	-0.333333	3.479167	8.083333	0	
59	N59A	-5.833333	3.479167	8.083333	0	
60	N60A	0.166667	3.479167	8.083333	0	
61	N63	-5.54164	3.479167	-10.256969	0	
62	N64	6.59889	3.479167	-3.801735	0	



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Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rules	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Antenna Pipe	PIPE 2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Face Horizo...	PIPE 2.5	Beam	Pipe	Q235	Typical	1.61	1.45	1.45	2.89
3	Standoff Hor...	PIPE 2.0	Beam	Pipe	Q235	Typical	1.02	.627	.627	1.25
4	Standoff Dia...	SR 0.75	Beam	BAR	Q235	Typical	.442	.016	.016	.031
5	Tieback	PIPE 2.5	Beam	Pipe	Q235	Typical	1.61	1.45	1.45	2.89
6	Standoff Ver...	SR 0.625	Beam	BAR	Q235	Typical	.307	.007	.007	.015
7	Standoff Plate	PL5/8X3.5	Beam	BAR	Q235	Typical	2.188	.071	2.233	.253
8	tower pipe	PIPE 3.0	Column	Pipe	A53 Gr. B	Typical	2.07	2.85	2.85	5.69

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E...	Density[k/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
2	A53 Gr. B	29000	11154	.3	.65	.49	35	1.5	60	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
5	A500 Gr. B 42	29000	11154	.3	.65	.49	42	1.4	58	1.3
6	A500 Gr. B 46	29000	11154	.3	.65	.49	46	1.4	58	1.3
7	Q235	29000	11154	.3	.65	.49	35	1.5	58	1.2

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	FACE	N2	N1			Face Horizontal	Beam	Pipe	Q235	Typical
2	M2	N4	N3			Face Horizontal	Beam	Pipe	Q235	Typical
3	M3	N5	N13			RIGID	None	None	RIGID	Typical
4	M4	N6	N14			RIGID	None	None	RIGID	Typical
5	M5	N8	N16			RIGID	None	None	RIGID	Typical
6	M6	N7	N15			RIGID	None	None	RIGID	Typical
7	M9	N10	N18			RIGID	None	None	RIGID	Typical
8	LIVE1	N9	N17			RIGID	None	None	RIGID	Typical
9	M11	N12	N20			RIGID	None	None	RIGID	Typical
10	LIVE2	N11	N19			RIGID	None	None	RIGID	Typical
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	MP4A	N39	N43			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
30	MP3A	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

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
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	N63			Tieback	Beam	Pipe	Q235	Typical
44	M44A	N60A	N64			Tieback	Beam	Pipe	Q235	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset(in)	J Offset(in)	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	FACE						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	LIVE1						Yes	** NA **			None
9	M11						Yes	** NA **			None
10	LIVE2						Yes	** NA **			None
11	M13						Yes	Default			None
12	M14						Yes	Default			None
13	M15						Yes				None
14	M16						Yes				None
15	M17						Yes	Default			None
16	M18						Yes				None
17	M19						Yes				None
18	M20						Yes	Default			None
19	M21						Yes	Default			None
20	M22						Yes				None
21	M23						Yes				None
22	M24						Yes				None
23	M25	BenPIN	BenPIN				Euler Buc..	Yes	Default		None
24	M26	BenPIN	BenPIN				Euler Buc..	Yes	Default		None
25	M27	BenPIN	BenPIN				Euler Buc..	Yes			None
26	M28	BenPIN	BenPIN				Euler Buc..	Yes			None
27	M29						Yes	** NA **		Inactive	None
28	M30						Yes	** NA **		Inactive	None
29	MP4A						Yes				None
30	MP3A						Yes				None
31	MP2A						Yes				None
32	MP1A						Yes				None
33	M44	BenPIN	BenPIN				Yes				None
34	M45	BenPIN	BenPIN				Yes				None
35	M46	BenPIN	BenPIN				Yes				None
36	M47	BenPIN	BenPIN				Yes	Default			None
37	M47B		OOOXOO				Yes	** NA **			None
38	M48A		OOOXOO				Yes	** NA **			None
39	M49A		OOOXOO				Yes	** NA **			None
40	M50A		OOOXOO				Yes	** NA **			None
41	M51A						Yes	** NA **			None
42	M52A						Yes	** NA **			None
43	M43	BenPIN					Yes	Default			None
44	M44A	BenPIN					Yes	Default			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	Y	-23	2
2	MP2A	My	-.006	2
3	MP2A	Mz	-.02	2
4	MP2A	Y	-23	6
5	MP2A	My	-.006	6
6	MP2A	Mz	-.02	6
7	MP2A	Y	-23	2
8	MP2A	My	.021	2
9	MP2A	Mz	.002	2
10	MP2A	Y	-23	6
11	MP2A	My	.021	6
12	MP2A	Mz	.002	6
13	MP3A	Y	-43.55	3
14	MP3A	My	.014	3
15	MP3A	Mz	-.017	3
16	MP3A	Y	-43.55	5
17	MP3A	My	.014	5
18	MP3A	Mz	-.017	5
19	MP2A	Y	-84.4	3
20	MP2A	My	-.027	3
21	MP2A	Mz	.032	3
22	MP1A	Y	-70.3	3
23	MP1A	My	-.023	3
24	MP1A	Mz	.027	3
25	MP1A	Y	-13.5	2
26	MP1A	My	.004	2
27	MP1A	Mz	-.005	2
28	MP1A	Y	-13.5	6
29	MP1A	My	.004	6
30	MP1A	Mz	-.005	6
31	MP4A	Y	-13.5	2
32	MP4A	My	.004	2
33	MP4A	Mz	-.005	2
34	MP4A	Y	-13.5	6
35	MP4A	My	.004	6
36	MP4A	Mz	-.005	6

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	Y	-82.579	2
2	MP2A	My	-.021	2
3	MP2A	Mz	-.071	2
4	MP2A	Y	-82.579	6
5	MP2A	My	-.021	6
6	MP2A	Mz	-.071	6
7	MP2A	Y	-82.579	2
8	MP2A	My	.074	2
9	MP2A	Mz	.008	2
10	MP2A	Y	-82.579	6
11	MP2A	My	.074	6
12	MP2A	Mz	.008	6
13	MP3A	Y	-35.664	3
14	MP3A	My	.011	3
15	MP3A	Mz	-.014	3
16	MP3A	Y	-35.664	5
17	MP3A	My	.011	5
18	MP3A	Mz	-.014	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
19	MP2A	Y	-44.965	3
20	MP2A	My	-.014	3
21	MP2A	Mz	.017	3
22	MP1A	Y	-40.438	3
23	MP1A	My	-.013	3
24	MP1A	Mz	.015	3
25	MP1A	Y	-88.795	2
26	MP1A	My	.029	2
27	MP1A	Mz	-.034	2
28	MP1A	Y	-88.795	6
29	MP1A	My	.029	6
30	MP1A	Mz	-.034	6
31	MP4A	Y	-88.795	2
32	MP4A	My	.029	2
33	MP4A	Mz	-.034	2
34	MP4A	Y	-88.795	6
35	MP4A	My	.029	6
36	MP4A	Mz	-.034	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	2
2	MP2A	Z	-67.949	2
3	MP2A	Mx	.059	2
4	MP2A	X	0	6
5	MP2A	Z	-67.949	6
6	MP2A	Mx	.059	6
7	MP2A	X	0	2
8	MP2A	Z	-67.949	2
9	MP2A	Mx	-.007	2
10	MP2A	X	0	6
11	MP2A	Z	-67.949	6
12	MP2A	Mx	-.007	6
13	MP3A	X	0	3
14	MP3A	Z	-50.927	3
15	MP3A	Mx	.02	3
16	MP3A	X	0	5
17	MP3A	Z	-50.927	5
18	MP3A	Mx	.02	5
19	MP2A	X	0	3
20	MP2A	Z	-42.159	3
21	MP2A	Mx	-.016	3
22	MP1A	X	0	3
23	MP1A	Z	-38.4	3
24	MP1A	Mx	-.015	3
25	MP1A	X	0	2
26	MP1A	Z	-151.656	2
27	MP1A	Mx	.058	2
28	MP1A	X	0	6
29	MP1A	Z	-151.656	6
30	MP1A	Mx	.058	6
31	MP4A	X	0	2
32	MP4A	Z	-151.656	2
33	MP4A	Mx	.058	2
34	MP4A	X	0	6
35	MP4A	Z	-151.656	6
36	MP4A	Mx	.058	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	30.133	2
2	MP2A	Z	-52.193	2
3	MP2A	Mx	.038	2
4	MP2A	X	30.133	6
5	MP2A	Z	-52.193	6
6	MP2A	Mx	.038	6
7	MP2A	X	30.133	2
8	MP2A	Z	-52.193	2
9	MP2A	Mx	.022	2
10	MP2A	X	30.133	6
11	MP2A	Z	-52.193	6
12	MP2A	Mx	.022	6
13	MP3A	X	16.233	3
14	MP3A	Z	-28.116	3
15	MP3A	Mx	.016	3
16	MP3A	X	16.233	5
17	MP3A	Z	-28.116	5
18	MP3A	Mx	.016	5
19	MP2A	X	17.787	3
20	MP2A	Z	-30.808	3
21	MP2A	Mx	-.018	3
22	MP1A	X	14.681	3
23	MP1A	Z	-25.429	3
24	MP1A	Mx	-.014	3
25	MP1A	X	72.519	2
26	MP1A	Z	-125.606	2
27	MP1A	Mx	.071	2
28	MP1A	X	72.519	6
29	MP1A	Z	-125.606	6
30	MP1A	Mx	.071	6
31	MP4A	X	72.519	2
32	MP4A	Z	-125.606	2
33	MP4A	Mx	.071	2
34	MP4A	X	72.519	6
35	MP4A	Z	-125.606	6
36	MP4A	Mx	.071	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	53.701	2
2	MP2A	Z	-31.004	2
3	MP2A	Mx	.013	2
4	MP2A	X	53.701	6
5	MP2A	Z	-31.004	6
6	MP2A	Mx	.013	6
7	MP2A	X	53.701	2
8	MP2A	Z	-31.004	2
9	MP2A	Mx	.045	2
10	MP2A	X	53.701	6
11	MP2A	Z	-31.004	6
12	MP2A	Mx	.045	6
13	MP3A	X	31.74	3
14	MP3A	Z	-18.325	3
15	MP3A	Mx	.017	3
16	MP3A	X	31.74	5
17	MP3A	Z	-18.325	5
18	MP3A	Mx	.017	5
19	MP2A	X	32.101	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
20	MP2A	Z	-18.533	3
21	MP2A	Mx	-.017	3
22	MP1A	X	27.203	3
23	MP1A	Z	-15.706	3
24	MP1A	Mx	-.015	3
25	MP1A	X	126.905	2
26	MP1A	Z	-73.269	2
27	MP1A	Mx	.069	2
28	MP1A	X	126.905	6
29	MP1A	Z	-73.269	6
30	MP1A	Mx	.069	6
31	MP4A	X	126.905	2
32	MP4A	Z	-73.269	2
33	MP4A	Mx	.069	2
34	MP4A	X	126.905	6
35	MP4A	Z	-73.269	6
36	MP4A	Mx	.069	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	71.432	2
2	MP2A	Z	0	2
3	MP2A	Mx	-.018	2
4	MP2A	X	71.432	6
5	MP2A	Z	0	6
6	MP2A	Mx	-.018	6
7	MP2A	X	71.432	2
8	MP2A	Z	0	2
9	MP2A	Mx	.064	2
10	MP2A	X	71.432	6
11	MP2A	Z	0	6
12	MP2A	Mx	.064	6
13	MP3A	X	59.297	3
14	MP3A	Z	0	3
15	MP3A	Mx	.019	3
16	MP3A	X	59.297	5
17	MP3A	Z	0	5
18	MP3A	Mx	.019	5
19	MP2A	X	45.144	3
20	MP2A	Z	0	3
21	MP2A	Mx	-.015	3
22	MP1A	X	42.498	3
23	MP1A	Z	0	3
24	MP1A	Mx	-.014	3
25	MP1A	X	154.656	2
26	MP1A	Z	0	2
27	MP1A	Mx	.05	2
28	MP1A	X	154.656	6
29	MP1A	Z	0	6
30	MP1A	Mx	.05	6
31	MP4A	X	154.656	2
32	MP4A	Z	0	2
33	MP4A	Mx	.05	2
34	MP4A	X	154.656	6
35	MP4A	Z	0	6
36	MP4A	Mx	.05	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	68.514	2
2	MP2A	Z	39.557	2
3	MP2A	Mx	-.052	2
4	MP2A	X	68.514	6
5	MP2A	Z	39.557	6
6	MP2A	Mx	-.052	6
7	MP2A	X	68.514	2
8	MP2A	Z	39.557	2
9	MP2A	Mx	.065	2
10	MP2A	X	68.514	6
11	MP2A	Z	39.557	6
12	MP2A	Mx	.065	6
13	MP3A	X	67.341	3
14	MP3A	Z	38.88	3
15	MP3A	Mx	.007	3
16	MP3A	X	67.341	5
17	MP3A	Z	38.88	5
18	MP3A	Mx	.007	5
19	MP2A	X	44.798	3
20	MP2A	Z	25.864	3
21	MP2A	Mx	-.004	3
22	MP1A	X	44.631	3
23	MP1A	Z	25.768	3
24	MP1A	Mx	-.004	3
25	MP1A	X	139.668	2
26	MP1A	Z	80.637	2
27	MP1A	Mx	.014	2
28	MP1A	X	139.668	6
29	MP1A	Z	80.637	6
30	MP1A	Mx	.014	6
31	MP4A	X	139.668	2
32	MP4A	Z	80.637	2
33	MP4A	Mx	.014	2
34	MP4A	X	139.668	6
35	MP4A	Z	80.637	6
36	MP4A	Mx	.014	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	38.686	2
2	MP2A	Z	67.006	2
3	MP2A	Mx	-.068	2
4	MP2A	X	38.686	6
5	MP2A	Z	67.006	6
6	MP2A	Mx	-.068	6
7	MP2A	X	38.686	2
8	MP2A	Z	67.006	2
9	MP2A	Mx	.041	2
10	MP2A	X	38.686	6
11	MP2A	Z	67.006	6
12	MP2A	Mx	.041	6
13	MP3A	X	36.787	3
14	MP3A	Z	63.717	3
15	MP3A	Mx	-.013	3
16	MP3A	X	36.787	5
17	MP3A	Z	63.717	5
18	MP3A	Mx	-.013	5
19	MP2A	X	25.118	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
20	MP2A	Z	43.505	3
21	MP2A	Mx	.009	3
22	MP1A	X	24.743	3
23	MP1A	Z	42.857	3
24	MP1A	Mx	.008	3
25	MP1A	X	79.887	2
26	MP1A	Z	138.369	2
27	MP1A	Mx	-.027	2
28	MP1A	X	79.887	6
29	MP1A	Z	138.369	6
30	MP1A	Mx	-.027	6
31	MP4A	X	79.887	2
32	MP4A	Z	138.369	2
33	MP4A	Mx	-.027	2
34	MP4A	X	79.887	6
35	MP4A	Z	138.369	6
36	MP4A	Mx	-.027	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	2
2	MP2A	Z	67.949	2
3	MP2A	Mx	-.059	2
4	MP2A	X	0	6
5	MP2A	Z	67.949	6
6	MP2A	Mx	-.059	6
7	MP2A	X	0	2
8	MP2A	Z	67.949	2
9	MP2A	Mx	.007	2
10	MP2A	X	0	6
11	MP2A	Z	67.949	6
12	MP2A	Mx	.007	6
13	MP3A	X	0	3
14	MP3A	Z	50.927	3
15	MP3A	Mx	-.02	3
16	MP3A	X	0	5
17	MP3A	Z	50.927	5
18	MP3A	Mx	-.02	5
19	MP2A	X	0	3
20	MP2A	Z	42.159	3
21	MP2A	Mx	.016	3
22	MP1A	X	0	3
23	MP1A	Z	38.4	3
24	MP1A	Mx	.015	3
25	MP1A	X	0	2
26	MP1A	Z	151.656	2
27	MP1A	Mx	-.058	2
28	MP1A	X	0	6
29	MP1A	Z	151.656	6
30	MP1A	Mx	-.058	6
31	MP4A	X	0	2
32	MP4A	Z	151.656	2
33	MP4A	Mx	-.058	2
34	MP4A	X	0	6
35	MP4A	Z	151.656	6
36	MP4A	Mx	-.058	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-30.133	2
2	MP2A	Z	52.193	2
3	MP2A	Mx	-.038	2
4	MP2A	X	-30.133	6
5	MP2A	Z	52.193	6
6	MP2A	Mx	-.038	6
7	MP2A	X	-30.133	2
8	MP2A	Z	52.193	2
9	MP2A	Mx	-.022	2
10	MP2A	X	-30.133	6
11	MP2A	Z	52.193	6
12	MP2A	Mx	-.022	6
13	MP3A	X	-16.233	3
14	MP3A	Z	28.116	3
15	MP3A	Mx	-.016	3
16	MP3A	X	-16.233	5
17	MP3A	Z	28.116	5
18	MP3A	Mx	-.016	5
19	MP2A	X	-17.787	3
20	MP2A	Z	30.808	3
21	MP2A	Mx	.018	3
22	MP1A	X	-14.681	3
23	MP1A	Z	25.429	3
24	MP1A	Mx	.014	3
25	MP1A	X	-72.519	2
26	MP1A	Z	125.606	2
27	MP1A	Mx	-.071	2
28	MP1A	X	-72.519	6
29	MP1A	Z	125.606	6
30	MP1A	Mx	-.071	6
31	MP4A	X	-72.519	2
32	MP4A	Z	125.606	2
33	MP4A	Mx	-.071	2
34	MP4A	X	-72.519	6
35	MP4A	Z	125.606	6
36	MP4A	Mx	-.071	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-53.701	2
2	MP2A	Z	31.004	2
3	MP2A	Mx	-.013	2
4	MP2A	X	-53.701	6
5	MP2A	Z	31.004	6
6	MP2A	Mx	-.013	6
7	MP2A	X	-53.701	2
8	MP2A	Z	31.004	2
9	MP2A	Mx	-.045	2
10	MP2A	X	-53.701	6
11	MP2A	Z	31.004	6
12	MP2A	Mx	-.045	6
13	MP3A	X	-31.74	3
14	MP3A	Z	18.325	3
15	MP3A	Mx	-.017	3
16	MP3A	X	-31.74	5
17	MP3A	Z	18.325	5
18	MP3A	Mx	-.017	5
19	MP2A	X	-32.101	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
20	MP2A	Z	18.533	3
21	MP2A	Mx	.017	3
22	MP1A	X	-27.203	3
23	MP1A	Z	15.706	3
24	MP1A	Mx	.015	3
25	MP1A	X	-126.905	2
26	MP1A	Z	73.269	2
27	MP1A	Mx	-.069	2
28	MP1A	X	-126.905	6
29	MP1A	Z	73.269	6
30	MP1A	Mx	-.069	6
31	MP4A	X	-126.905	2
32	MP4A	Z	73.269	2
33	MP4A	Mx	-.069	2
34	MP4A	X	-126.905	6
35	MP4A	Z	73.269	6
36	MP4A	Mx	-.069	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-71.432	2
2	MP2A	Z	0	2
3	MP2A	Mx	.018	2
4	MP2A	X	-71.432	6
5	MP2A	Z	0	6
6	MP2A	Mx	.018	6
7	MP2A	X	-71.432	2
8	MP2A	Z	0	2
9	MP2A	Mx	-.064	2
10	MP2A	X	-71.432	6
11	MP2A	Z	0	6
12	MP2A	Mx	-.064	6
13	MP3A	X	-59.297	3
14	MP3A	Z	0	3
15	MP3A	Mx	-.019	3
16	MP3A	X	-59.297	5
17	MP3A	Z	0	5
18	MP3A	Mx	-.019	5
19	MP2A	X	-45.144	3
20	MP2A	Z	0	3
21	MP2A	Mx	.015	3
22	MP1A	X	-42.498	3
23	MP1A	Z	0	3
24	MP1A	Mx	.014	3
25	MP1A	X	-154.656	2
26	MP1A	Z	0	2
27	MP1A	Mx	-.05	2
28	MP1A	X	-154.656	6
29	MP1A	Z	0	6
30	MP1A	Mx	-.05	6
31	MP4A	X	-154.656	2
32	MP4A	Z	0	2
33	MP4A	Mx	-.05	2
34	MP4A	X	-154.656	6
35	MP4A	Z	0	6
36	MP4A	Mx	-.05	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-68.514	2
2	MP2A	Z	-39.557	2
3	MP2A	Mx	.052	2
4	MP2A	X	-68.514	6
5	MP2A	Z	-39.557	6
6	MP2A	Mx	.052	6
7	MP2A	X	-68.514	2
8	MP2A	Z	-39.557	2
9	MP2A	Mx	-.065	2
10	MP2A	X	-68.514	6
11	MP2A	Z	-39.557	6
12	MP2A	Mx	-.065	6
13	MP3A	X	-67.341	3
14	MP3A	Z	-38.88	3
15	MP3A	Mx	-.007	3
16	MP3A	X	-67.341	5
17	MP3A	Z	-38.88	5
18	MP3A	Mx	-.007	5
19	MP2A	X	-44.798	3
20	MP2A	Z	-25.864	3
21	MP2A	Mx	.004	3
22	MP1A	X	-44.631	3
23	MP1A	Z	-25.768	3
24	MP1A	Mx	.004	3
25	MP1A	X	-139.668	2
26	MP1A	Z	-80.637	2
27	MP1A	Mx	-.014	2
28	MP1A	X	-139.668	6
29	MP1A	Z	-80.637	6
30	MP1A	Mx	-.014	6
31	MP4A	X	-139.668	2
32	MP4A	Z	-80.637	2
33	MP4A	Mx	-.014	2
34	MP4A	X	-139.668	6
35	MP4A	Z	-80.637	6
36	MP4A	Mx	-.014	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-38.686	2
2	MP2A	Z	-67.006	2
3	MP2A	Mx	.068	2
4	MP2A	X	-38.686	6
5	MP2A	Z	-67.006	6
6	MP2A	Mx	.068	6
7	MP2A	X	-38.686	2
8	MP2A	Z	-67.006	2
9	MP2A	Mx	-.041	2
10	MP2A	X	-38.686	6
11	MP2A	Z	-67.006	6
12	MP2A	Mx	-.041	6
13	MP3A	X	-36.787	3
14	MP3A	Z	-63.717	3
15	MP3A	Mx	.013	3
16	MP3A	X	-36.787	5
17	MP3A	Z	-63.717	5
18	MP3A	Mx	.013	5
19	MP2A	X	-25.118	3

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

	Member Label	Direction	Magnitude[lb, k-ft]	Location[ft, %]
20	MP2A	Z	-43.505	3
21	MP2A	Mx	-.009	3
22	MP1A	X	-24.743	3
23	MP1A	Z	-42.857	3
24	MP1A	Mx	-.008	3
25	MP1A	X	-79.887	2
26	MP1A	Z	-138.369	2
27	MP1A	Mx	.027	2
28	MP1A	X	-79.887	6
29	MP1A	Z	-138.369	6
30	MP1A	Mx	.027	6
31	MP4A	X	-79.887	2
32	MP4A	Z	-138.369	2
33	MP4A	Mx	.027	2
34	MP4A	X	-79.887	6
35	MP4A	Z	-138.369	6
36	MP4A	Mx	.027	6

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

	Member Label	Direction	Magnitude[lb, k-ft]	Location[ft, %]
1	MP2A	X	0	2
2	MP2A	Z	-26.995	2
3	MP2A	Mx	.023	2
4	MP2A	X	0	6
5	MP2A	Z	-26.995	6
6	MP2A	Mx	.023	6
7	MP2A	X	0	2
8	MP2A	Z	-26.995	2
9	MP2A	Mx	-.003	2
10	MP2A	X	0	6
11	MP2A	Z	-26.995	6
12	MP2A	Mx	-.003	6
13	MP3A	X	0	3
14	MP3A	Z	-10.304	3
15	MP3A	Mx	.004	3
16	MP3A	X	0	5
17	MP3A	Z	-10.304	5
18	MP3A	Mx	.004	5
19	MP2A	X	0	3
20	MP2A	Z	-10.757	3
21	MP2A	Mx	-.004	3
22	MP1A	X	0	3
23	MP1A	Z	-9.869	3
24	MP1A	Mx	-.004	3
25	MP1A	X	0	2
26	MP1A	Z	-28.846	2
27	MP1A	Mx	.011	2
28	MP1A	X	0	6
29	MP1A	Z	-28.846	6
30	MP1A	Mx	.011	6
31	MP4A	X	0	2
32	MP4A	Z	-28.846	2
33	MP4A	Mx	.011	2
34	MP4A	X	0	6
35	MP4A	Z	-28.846	6
36	MP4A	Mx	.011	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	12.029	2
2	MP2A	Z	-20.835	2
3	MP2A	Mx	.015	2
4	MP2A	X	12.029	6
5	MP2A	Z	-20.835	6
6	MP2A	Mx	.015	6
7	MP2A	X	12.029	2
8	MP2A	Z	-20.835	2
9	MP2A	Mx	.009	2
10	MP2A	X	12.029	6
11	MP2A	Z	-20.835	6
12	MP2A	Mx	.009	6
13	MP3A	X	3.444	3
14	MP3A	Z	-5.965	3
15	MP3A	Mx	.003	3
16	MP3A	X	3.444	5
17	MP3A	Z	-5.965	5
18	MP3A	Mx	.003	5
19	MP2A	X	4.615	3
20	MP2A	Z	-7.994	3
21	MP2A	Mx	-.005	3
22	MP1A	X	3.881	3
23	MP1A	Z	-6.722	3
24	MP1A	Mx	-.004	3
25	MP1A	X	13.834	2
26	MP1A	Z	-23.961	2
27	MP1A	Mx	.014	2
28	MP1A	X	13.834	6
29	MP1A	Z	-23.961	6
30	MP1A	Mx	.014	6
31	MP4A	X	13.834	2
32	MP4A	Z	-23.961	2
33	MP4A	Mx	.014	2
34	MP4A	X	13.834	6
35	MP4A	Z	-23.961	6
36	MP4A	Mx	.014	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	21.412	2
2	MP2A	Z	-12.362	2
3	MP2A	Mx	.005	2
4	MP2A	X	21.412	6
5	MP2A	Z	-12.362	6
6	MP2A	Mx	.005	6
7	MP2A	X	21.412	2
8	MP2A	Z	-12.362	2
9	MP2A	Mx	.018	2
10	MP2A	X	21.412	6
11	MP2A	Z	-12.362	6
12	MP2A	Mx	.018	6
13	MP3A	X	6.636	3
14	MP3A	Z	-3.831	3
15	MP3A	Mx	.004	3
16	MP3A	X	6.636	5
17	MP3A	Z	-3.831	5
18	MP3A	Mx	.004	5
19	MP2A	X	8.294	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
20	MP2A	Z	-4.788	3
21	MP2A	Mx	-.004	3
22	MP1A	X	7.135	3
23	MP1A	Z	-4.12	3
24	MP1A	Mx	-.004	3
25	MP1A	X	24.192	2
26	MP1A	Z	-13.967	2
27	MP1A	Mx	.013	2
28	MP1A	X	24.192	6
29	MP1A	Z	-13.967	6
30	MP1A	Mx	.013	6
31	MP4A	X	24.192	2
32	MP4A	Z	-13.967	2
33	MP4A	Mx	.013	2
34	MP4A	X	24.192	6
35	MP4A	Z	-13.967	6
36	MP4A	Mx	.013	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	28.327	2
2	MP2A	Z	0	2
3	MP2A	Mx	-.007	2
4	MP2A	X	28.327	6
5	MP2A	Z	0	6
6	MP2A	Mx	-.007	6
7	MP2A	X	28.327	2
8	MP2A	Z	0	2
9	MP2A	Mx	.025	2
10	MP2A	X	28.327	6
11	MP2A	Z	0	6
12	MP2A	Mx	.025	6
13	MP3A	X	11.853	3
14	MP3A	Z	0	3
15	MP3A	Mx	.004	3
16	MP3A	X	11.853	5
17	MP3A	Z	0	5
18	MP3A	Mx	.004	5
19	MP2A	X	11.45	3
20	MP2A	Z	0	3
21	MP2A	Mx	-.004	3
22	MP1A	X	10.824	3
23	MP1A	Z	0	3
24	MP1A	Mx	-.003	3
25	MP1A	X	29.38	2
26	MP1A	Z	0	2
27	MP1A	Mx	.009	2
28	MP1A	X	29.38	6
29	MP1A	Z	0	6
30	MP1A	Mx	.009	6
31	MP4A	X	29.38	2
32	MP4A	Z	0	2
33	MP4A	Mx	.009	2
34	MP4A	X	29.38	6
35	MP4A	Z	0	6
36	MP4A	Mx	.009	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	27.075	2
2	MP2A	Z	15.632	2
3	MP2A	Mx	-.02	2
4	MP2A	X	27.075	6
5	MP2A	Z	15.632	6
6	MP2A	Mx	-.02	6
7	MP2A	X	27.075	2
8	MP2A	Z	15.632	2
9	MP2A	Mx	.026	2
10	MP2A	X	27.075	6
11	MP2A	Z	15.632	6
12	MP2A	Mx	.026	6
13	MP3A	X	13.224	3
14	MP3A	Z	7.635	3
15	MP3A	Mx	.001	3
16	MP3A	X	13.224	5
17	MP3A	Z	7.635	5
18	MP3A	Mx	.001	5
19	MP2A	X	11.238	3
20	MP2A	Z	6.488	3
21	MP2A	Mx	-.001	3
22	MP1A	X	11.198	3
23	MP1A	Z	6.465	3
24	MP1A	Mx	-.001	3
25	MP1A	X	26.464	2
26	MP1A	Z	15.279	2
27	MP1A	Mx	.003	2
28	MP1A	X	26.464	6
29	MP1A	Z	15.279	6
30	MP1A	Mx	.003	6
31	MP4A	X	26.464	2
32	MP4A	Z	15.279	2
33	MP4A	Mx	.003	2
34	MP4A	X	26.464	6
35	MP4A	Z	15.279	6
36	MP4A	Mx	.003	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	15.299	2
2	MP2A	Z	26.499	2
3	MP2A	Mx	-.027	2
4	MP2A	X	15.299	6
5	MP2A	Z	26.499	6
6	MP2A	Mx	-.027	6
7	MP2A	X	15.299	2
8	MP2A	Z	26.499	2
9	MP2A	Mx	.016	2
10	MP2A	X	15.299	6
11	MP2A	Z	26.499	6
12	MP2A	Mx	.016	6
13	MP3A	X	7.247	3
14	MP3A	Z	12.553	3
15	MP3A	Mx	-.002	3
16	MP3A	X	7.247	5
17	MP3A	Z	12.553	5
18	MP3A	Mx	-.002	5
19	MP2A	X	6.315	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
20	MP2A	Z	10.938	3
21	MP2A	Mx	.002	3
22	MP1A	X	6.227	3
23	MP1A	Z	10.785	3
24	MP1A	Mx	.002	3
25	MP1A	X	15.146	2
26	MP1A	Z	26.233	2
27	MP1A	Mx	-.005	2
28	MP1A	X	15.146	6
29	MP1A	Z	26.233	6
30	MP1A	Mx	-.005	6
31	MP4A	X	15.146	2
32	MP4A	Z	26.233	2
33	MP4A	Mx	-.005	2
34	MP4A	X	15.146	6
35	MP4A	Z	26.233	6
36	MP4A	Mx	-.005	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	2
2	MP2A	Z	26.995	2
3	MP2A	Mx	-.023	2
4	MP2A	X	0	6
5	MP2A	Z	26.995	6
6	MP2A	Mx	-.023	6
7	MP2A	X	0	2
8	MP2A	Z	26.995	2
9	MP2A	Mx	.003	2
10	MP2A	X	0	6
11	MP2A	Z	26.995	6
12	MP2A	Mx	.003	6
13	MP3A	X	0	3
14	MP3A	Z	10.304	3
15	MP3A	Mx	-.004	3
16	MP3A	X	0	5
17	MP3A	Z	10.304	5
18	MP3A	Mx	-.004	5
19	MP2A	X	0	3
20	MP2A	Z	10.757	3
21	MP2A	Mx	.004	3
22	MP1A	X	0	3
23	MP1A	Z	9.869	3
24	MP1A	Mx	.004	3
25	MP1A	X	0	2
26	MP1A	Z	28.846	2
27	MP1A	Mx	-.011	2
28	MP1A	X	0	6
29	MP1A	Z	28.846	6
30	MP1A	Mx	-.011	6
31	MP4A	X	0	2
32	MP4A	Z	28.846	2
33	MP4A	Mx	-.011	2
34	MP4A	X	0	6
35	MP4A	Z	28.846	6
36	MP4A	Mx	-.011	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-12.029	2
2	MP2A	Z	20.835	2
3	MP2A	Mx	-.015	2
4	MP2A	X	-12.029	6
5	MP2A	Z	20.835	6
6	MP2A	Mx	-.015	6
7	MP2A	X	-12.029	2
8	MP2A	Z	20.835	2
9	MP2A	Mx	-.009	2
10	MP2A	X	-12.029	6
11	MP2A	Z	20.835	6
12	MP2A	Mx	-.009	6
13	MP3A	X	-3.444	3
14	MP3A	Z	5.965	3
15	MP3A	Mx	-.003	3
16	MP3A	X	-3.444	5
17	MP3A	Z	5.965	5
18	MP3A	Mx	-.003	5
19	MP2A	X	-4.615	3
20	MP2A	Z	7.994	3
21	MP2A	Mx	.005	3
22	MP1A	X	-3.881	3
23	MP1A	Z	6.722	3
24	MP1A	Mx	.004	3
25	MP1A	X	-13.834	2
26	MP1A	Z	23.961	2
27	MP1A	Mx	-.014	2
28	MP1A	X	-13.834	6
29	MP1A	Z	23.961	6
30	MP1A	Mx	-.014	6
31	MP4A	X	-13.834	2
32	MP4A	Z	23.961	2
33	MP4A	Mx	-.014	2
34	MP4A	X	-13.834	6
35	MP4A	Z	23.961	6
36	MP4A	Mx	-.014	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-21.412	2
2	MP2A	Z	12.362	2
3	MP2A	Mx	-.005	2
4	MP2A	X	-21.412	6
5	MP2A	Z	12.362	6
6	MP2A	Mx	-.005	6
7	MP2A	X	-21.412	2
8	MP2A	Z	12.362	2
9	MP2A	Mx	-.018	2
10	MP2A	X	-21.412	6
11	MP2A	Z	12.362	6
12	MP2A	Mx	-.018	6
13	MP3A	X	-6.636	3
14	MP3A	Z	3.831	3
15	MP3A	Mx	-.004	3
16	MP3A	X	-6.636	5
17	MP3A	Z	3.831	5
18	MP3A	Mx	-.004	5
19	MP2A	X	-8.294	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
20	MP2A	Z	4.788	3
21	MP2A	Mx	.004	3
22	MP1A	X	-7.135	3
23	MP1A	Z	4.12	3
24	MP1A	Mx	.004	3
25	MP1A	X	-24.192	2
26	MP1A	Z	13.967	2
27	MP1A	Mx	-.013	2
28	MP1A	X	-24.192	6
29	MP1A	Z	13.967	6
30	MP1A	Mx	-.013	6
31	MP4A	X	-24.192	2
32	MP4A	Z	13.967	2
33	MP4A	Mx	-.013	2
34	MP4A	X	-24.192	6
35	MP4A	Z	13.967	6
36	MP4A	Mx	-.013	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-28.327	2
2	MP2A	Z	0	2
3	MP2A	Mx	.007	2
4	MP2A	X	28.327	6
5	MP2A	Z	0	6
6	MP2A	Mx	.007	6
7	MP2A	X	-28.327	2
8	MP2A	Z	0	2
9	MP2A	Mx	-.025	2
10	MP2A	X	-28.327	6
11	MP2A	Z	0	6
12	MP2A	Mx	-.025	6
13	MP3A	X	-11.853	3
14	MP3A	Z	0	3
15	MP3A	Mx	-.004	3
16	MP3A	X	-11.853	5
17	MP3A	Z	0	5
18	MP3A	Mx	-.004	5
19	MP2A	X	-11.45	3
20	MP2A	Z	0	3
21	MP2A	Mx	.004	3
22	MP1A	X	-10.824	3
23	MP1A	Z	0	3
24	MP1A	Mx	.003	3
25	MP1A	X	-29.38	2
26	MP1A	Z	0	2
27	MP1A	Mx	-.009	2
28	MP1A	X	-29.38	6
29	MP1A	Z	0	6
30	MP1A	Mx	-.009	6
31	MP4A	X	-29.38	2
32	MP4A	Z	0	2
33	MP4A	Mx	-.009	2
34	MP4A	X	-29.38	6
35	MP4A	Z	0	6
36	MP4A	Mx	-.009	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-27.075	2
2	MP2A	Z	-15.632	2
3	MP2A	Mx	.02	2
4	MP2A	X	-27.075	6
5	MP2A	Z	-15.632	6
6	MP2A	Mx	.02	6
7	MP2A	X	-27.075	2
8	MP2A	Z	-15.632	2
9	MP2A	Mx	-.026	2
10	MP2A	X	-27.075	6
11	MP2A	Z	-15.632	6
12	MP2A	Mx	-.026	6
13	MP3A	X	-13.224	3
14	MP3A	Z	-7.635	3
15	MP3A	Mx	-.001	3
16	MP3A	X	-13.224	5
17	MP3A	Z	-7.635	5
18	MP3A	Mx	-.001	5
19	MP2A	X	-11.238	3
20	MP2A	Z	-6.488	3
21	MP2A	Mx	.001	3
22	MP1A	X	-11.198	3
23	MP1A	Z	-6.465	3
24	MP1A	Mx	.001	3
25	MP1A	X	-26.464	2
26	MP1A	Z	-15.279	2
27	MP1A	Mx	-.003	2
28	MP1A	X	-26.464	6
29	MP1A	Z	-15.279	6
30	MP1A	Mx	-.003	6
31	MP4A	X	-26.464	2
32	MP4A	Z	-15.279	2
33	MP4A	Mx	-.003	2
34	MP4A	X	-26.464	6
35	MP4A	Z	-15.279	6
36	MP4A	Mx	-.003	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-15.299	2
2	MP2A	Z	-26.499	2
3	MP2A	Mx	.027	2
4	MP2A	X	-15.299	6
5	MP2A	Z	-26.499	6
6	MP2A	Mx	.027	6
7	MP2A	X	-15.299	2
8	MP2A	Z	-26.499	2
9	MP2A	Mx	-.016	2
10	MP2A	X	-15.299	6
11	MP2A	Z	-26.499	6
12	MP2A	Mx	-.016	6
13	MP3A	X	-7.247	3
14	MP3A	Z	-12.553	3
15	MP3A	Mx	.002	3
16	MP3A	X	-7.247	5
17	MP3A	Z	-12.553	5
18	MP3A	Mx	.002	5
19	MP2A	X	-6.315	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
20	MP2A	Z	-10.938	3
21	MP2A	Mx	-.002	3
22	MP1A	X	-6.227	3
23	MP1A	Z	-10.785	3
24	MP1A	Mx	-.002	3
25	MP1A	X	-15.146	2
26	MP1A	Z	-26.233	2
27	MP1A	Mx	.005	2
28	MP1A	X	-15.146	6
29	MP1A	Z	-26.233	6
30	MP1A	Mx	.005	6
31	MP4A	X	-15.146	2
32	MP4A	Z	-26.233	2
33	MP4A	Mx	.005	2
34	MP4A	X	-15.146	6
35	MP4A	Z	-26.233	6
36	MP4A	Mx	.005	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	2
2	MP2A	Z	-4.247	2
3	MP2A	Mx	.004	2
4	MP2A	X	0	6
5	MP2A	Z	-4.247	6
6	MP2A	Mx	.004	6
7	MP2A	X	0	2
8	MP2A	Z	-4.247	2
9	MP2A	Mx	-.000421	2
10	MP2A	X	0	6
11	MP2A	Z	-4.247	6
12	MP2A	Mx	-.000421	6
13	MP3A	X	0	3
14	MP3A	Z	-3.183	3
15	MP3A	Mx	.001	3
16	MP3A	X	0	5
17	MP3A	Z	-3.183	5
18	MP3A	Mx	.001	5
19	MP2A	X	0	3
20	MP2A	Z	-2.635	3
21	MP2A	Mx	-.001	3
22	MP1A	X	0	3
23	MP1A	Z	-2.4	3
24	MP1A	Mx	-.000919	3
25	MP1A	X	0	2
26	MP1A	Z	-9.478	2
27	MP1A	Mx	.004	2
28	MP1A	X	0	6
29	MP1A	Z	-9.478	6
30	MP1A	Mx	.004	6
31	MP4A	X	0	2
32	MP4A	Z	-9.478	2
33	MP4A	Mx	.004	2
34	MP4A	X	0	6
35	MP4A	Z	-9.478	6
36	MP4A	Mx	.004	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	1.883	2
2	MP2A	Z	-3.262	2
3	MP2A	Mx	.002	2
4	MP2A	X	1.883	6
5	MP2A	Z	-3.262	6
6	MP2A	Mx	.002	6
7	MP2A	X	1.883	2
8	MP2A	Z	-3.262	2
9	MP2A	Mx	.001	2
10	MP2A	X	1.883	6
11	MP2A	Z	-3.262	6
12	MP2A	Mx	.001	6
13	MP3A	X	1.015	3
14	MP3A	Z	-1.757	3
15	MP3A	Mx	.000999	3
16	MP3A	X	1.015	5
17	MP3A	Z	-1.757	5
18	MP3A	Mx	.000999	5
19	MP2A	X	1.112	3
20	MP2A	Z	-1.926	3
21	MP2A	Mx	-.001	3
22	MP1A	X	.918	3
23	MP1A	Z	-1.589	3
24	MP1A	Mx	-.000904	3
25	MP1A	X	4.532	2
26	MP1A	Z	-7.85	2
27	MP1A	Mx	.004	2
28	MP1A	X	4.532	6
29	MP1A	Z	-7.85	6
30	MP1A	Mx	.004	6
31	MP4A	X	4.532	2
32	MP4A	Z	-7.85	2
33	MP4A	Mx	.004	2
34	MP4A	X	4.532	6
35	MP4A	Z	-7.85	6
36	MP4A	Mx	.004	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	3.356	2
2	MP2A	Z	-1.938	2
3	MP2A	Mx	.000827	2
4	MP2A	X	3.356	6
5	MP2A	Z	-1.938	6
6	MP2A	Mx	.000827	6
7	MP2A	X	3.356	2
8	MP2A	Z	-1.938	2
9	MP2A	Mx	.003	2
10	MP2A	X	3.356	6
11	MP2A	Z	-1.938	6
12	MP2A	Mx	.003	6
13	MP3A	X	1.984	3
14	MP3A	Z	-1.145	3
15	MP3A	Mx	.001	3
16	MP3A	X	1.984	5
17	MP3A	Z	-1.145	5
18	MP3A	Mx	.001	5
19	MP2A	X	2.006	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
20	MP2A	Z	-1.158	3
21	MP2A	Mx	-.001	3
22	MP1A	X	1.7	3
23	MP1A	Z	-.982	3
24	MP1A	Mx	-.000922	3
25	MP1A	X	7.932	2
26	MP1A	Z	-4.579	2
27	MP1A	Mx	.004	2
28	MP1A	X	7.932	6
29	MP1A	Z	-4.579	6
30	MP1A	Mx	.004	6
31	MP4A	X	7.932	2
32	MP4A	Z	-4.579	2
33	MP4A	Mx	.004	2
34	MP4A	X	7.932	6
35	MP4A	Z	-4.579	6
36	MP4A	Mx	.004	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	4.464	2
2	MP2A	Z	0	2
3	MP2A	Mx	-.001	2
4	MP2A	X	4.464	6
5	MP2A	Z	0	6
6	MP2A	Mx	-.001	6
7	MP2A	X	4.464	2
8	MP2A	Z	0	2
9	MP2A	Mx	.004	2
10	MP2A	X	4.464	6
11	MP2A	Z	0	6
12	MP2A	Mx	.004	6
13	MP3A	X	3.706	3
14	MP3A	Z	0	3
15	MP3A	Mx	.001	3
16	MP3A	X	3.706	5
17	MP3A	Z	0	5
18	MP3A	Mx	.001	5
19	MP2A	X	2.821	3
20	MP2A	Z	0	3
21	MP2A	Mx	-.000907	3
22	MP1A	X	2.656	3
23	MP1A	Z	0	3
24	MP1A	Mx	-.000854	3
25	MP1A	X	9.666	2
26	MP1A	Z	0	2
27	MP1A	Mx	.003	2
28	MP1A	X	9.666	6
29	MP1A	Z	0	6
30	MP1A	Mx	.003	6
31	MP4A	X	9.666	2
32	MP4A	Z	0	2
33	MP4A	Mx	.003	2
34	MP4A	X	9.666	6
35	MP4A	Z	0	6
36	MP4A	Mx	.003	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	4.282	2
2	MP2A	Z	2.472	2
3	MP2A	Mx	-.003	2
4	MP2A	X	4.282	6
5	MP2A	Z	2.472	6
6	MP2A	Mx	-.003	6
7	MP2A	X	4.282	2
8	MP2A	Z	2.472	2
9	MP2A	Mx	.004	2
10	MP2A	X	4.282	6
11	MP2A	Z	2.472	6
12	MP2A	Mx	.004	6
13	MP3A	X	4.209	3
14	MP3A	Z	2.43	3
15	MP3A	Mx	.000422	3
16	MP3A	X	4.209	5
17	MP3A	Z	2.43	5
18	MP3A	Mx	.000422	5
19	MP2A	X	2.8	3
20	MP2A	Z	1.617	3
21	MP2A	Mx	-.000281	3
22	MP1A	X	2.789	3
23	MP1A	Z	1.61	3
24	MP1A	Mx	-.00028	3
25	MP1A	X	8.729	2
26	MP1A	Z	5.04	2
27	MP1A	Mx	.000875	2
28	MP1A	X	8.729	6
29	MP1A	Z	5.04	6
30	MP1A	Mx	.000875	6
31	MP4A	X	8.729	2
32	MP4A	Z	5.04	2
33	MP4A	Mx	.000875	2
34	MP4A	X	8.729	6
35	MP4A	Z	5.04	6
36	MP4A	Mx	.000875	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	2.418	2
2	MP2A	Z	4.188	2
3	MP2A	Mx	-.004	2
4	MP2A	X	2.418	6
5	MP2A	Z	4.188	6
6	MP2A	Mx	-.004	6
7	MP2A	X	2.418	2
8	MP2A	Z	4.188	2
9	MP2A	Mx	.003	2
10	MP2A	X	2.418	6
11	MP2A	Z	4.188	6
12	MP2A	Mx	.003	6
13	MP3A	X	2.299	3
14	MP3A	Z	3.982	3
15	MP3A	Mx	-.000786	3
16	MP3A	X	2.299	5
17	MP3A	Z	3.982	5
18	MP3A	Mx	-.000786	5
19	MP2A	X	1.57	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
20	MP2A	Z	2.719	3
21	MP2A	Mx	.000537	3
22	MP1A	X	1.546	3
23	MP1A	Z	2.679	3
24	MP1A	Mx	.000529	3
25	MP1A	X	4.993	2
26	MP1A	Z	8.648	2
27	MP1A	Mx	-.002	2
28	MP1A	X	4.993	6
29	MP1A	Z	8.648	6
30	MP1A	Mx	-.002	6
31	MP4A	X	4.993	2
32	MP4A	Z	8.648	2
33	MP4A	Mx	-.002	2
34	MP4A	X	4.993	6
35	MP4A	Z	8.648	6
36	MP4A	Mx	-.002	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	2
2	MP2A	Z	4.247	2
3	MP2A	Mx	-.004	2
4	MP2A	X	0	6
5	MP2A	Z	4.247	6
6	MP2A	Mx	-.004	6
7	MP2A	X	0	2
8	MP2A	Z	4.247	2
9	MP2A	Mx	.000421	2
10	MP2A	X	0	6
11	MP2A	Z	4.247	6
12	MP2A	Mx	.000421	6
13	MP3A	X	0	3
14	MP3A	Z	3.183	3
15	MP3A	Mx	-.001	3
16	MP3A	X	0	5
17	MP3A	Z	3.183	5
18	MP3A	Mx	-.001	5
19	MP2A	X	0	3
20	MP2A	Z	2.635	3
21	MP2A	Mx	.001	3
22	MP1A	X	0	3
23	MP1A	Z	2.4	3
24	MP1A	Mx	.000919	3
25	MP1A	X	0	2
26	MP1A	Z	9.478	2
27	MP1A	Mx	-.004	2
28	MP1A	X	0	6
29	MP1A	Z	9.478	6
30	MP1A	Mx	-.004	6
31	MP4A	X	0	2
32	MP4A	Z	9.478	2
33	MP4A	Mx	-.004	2
34	MP4A	X	0	6
35	MP4A	Z	9.478	6
36	MP4A	Mx	-.004	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-1.883	2
2	MP2A	Z	3.262	2
3	MP2A	Mx	-.002	2
4	MP2A	X	-1.883	6
5	MP2A	Z	3.262	6
6	MP2A	Mx	-.002	6
7	MP2A	X	-1.883	2
8	MP2A	Z	3.262	2
9	MP2A	Mx	-.001	2
10	MP2A	X	-1.883	6
11	MP2A	Z	3.262	6
12	MP2A	Mx	-.001	6
13	MP3A	X	-1.015	3
14	MP3A	Z	1.757	3
15	MP3A	Mx	-.000999	3
16	MP3A	X	-1.015	5
17	MP3A	Z	1.757	5
18	MP3A	Mx	-.000999	5
19	MP2A	X	-1.112	3
20	MP2A	Z	1.926	3
21	MP2A	Mx	.001	3
22	MP1A	X	-.918	3
23	MP1A	Z	1.589	3
24	MP1A	Mx	.000904	3
25	MP1A	X	-4.532	2
26	MP1A	Z	7.85	2
27	MP1A	Mx	-.004	2
28	MP1A	X	-4.532	6
29	MP1A	Z	7.85	6
30	MP1A	Mx	-.004	6
31	MP4A	X	-4.532	2
32	MP4A	Z	7.85	2
33	MP4A	Mx	-.004	2
34	MP4A	X	-4.532	6
35	MP4A	Z	7.85	6
36	MP4A	Mx	-.004	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-3.356	2
2	MP2A	Z	1.938	2
3	MP2A	Mx	-.000827	2
4	MP2A	X	-3.356	6
5	MP2A	Z	1.938	6
6	MP2A	Mx	-.000827	6
7	MP2A	X	-3.356	2
8	MP2A	Z	1.938	2
9	MP2A	Mx	-.003	2
10	MP2A	X	-3.356	6
11	MP2A	Z	1.938	6
12	MP2A	Mx	-.003	6
13	MP3A	X	-1.984	3
14	MP3A	Z	1.145	3
15	MP3A	Mx	-.001	3
16	MP3A	X	-1.984	5
17	MP3A	Z	1.145	5
18	MP3A	Mx	-.001	5
19	MP2A	X	-2.006	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
20	MP2A	Z	1.158	3
21	MP2A	Mx	.001	3
22	MP1A	X	-1.7	3
23	MP1A	Z	.982	3
24	MP1A	Mx	.000922	3
25	MP1A	X	-7.932	2
26	MP1A	Z	4.579	2
27	MP1A	Mx	-.004	2
28	MP1A	X	-7.932	6
29	MP1A	Z	4.579	6
30	MP1A	Mx	-.004	6
31	MP4A	X	-7.932	2
32	MP4A	Z	4.579	2
33	MP4A	Mx	-.004	2
34	MP4A	X	-7.932	6
35	MP4A	Z	4.579	6
36	MP4A	Mx	-.004	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-4.464	2
2	MP2A	Z	0	2
3	MP2A	Mx	.001	2
4	MP2A	X	-4.464	6
5	MP2A	Z	0	6
6	MP2A	Mx	.001	6
7	MP2A	X	-4.464	2
8	MP2A	Z	0	2
9	MP2A	Mx	-.004	2
10	MP2A	X	-4.464	6
11	MP2A	Z	0	6
12	MP2A	Mx	-.004	6
13	MP3A	X	-3.706	3
14	MP3A	Z	0	3
15	MP3A	Mx	-.001	3
16	MP3A	X	-3.706	5
17	MP3A	Z	0	5
18	MP3A	Mx	-.001	5
19	MP2A	X	-2.821	3
20	MP2A	Z	0	3
21	MP2A	Mx	.000907	3
22	MP1A	X	-2.656	3
23	MP1A	Z	0	3
24	MP1A	Mx	.000854	3
25	MP1A	X	-9.666	2
26	MP1A	Z	0	2
27	MP1A	Mx	-.003	2
28	MP1A	X	-9.666	6
29	MP1A	Z	0	6
30	MP1A	Mx	-.003	6
31	MP4A	X	-9.666	2
32	MP4A	Z	0	2
33	MP4A	Mx	-.003	2
34	MP4A	X	-9.666	6
35	MP4A	Z	0	6
36	MP4A	Mx	-.003	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-4.282	2
2	MP2A	Z	-2.472	2
3	MP2A	Mx	.003	2
4	MP2A	X	-4.282	6
5	MP2A	Z	-2.472	6
6	MP2A	Mx	.003	6
7	MP2A	X	-4.282	2
8	MP2A	Z	-2.472	2
9	MP2A	Mx	-.004	2
10	MP2A	X	-4.282	6
11	MP2A	Z	-2.472	6
12	MP2A	Mx	-.004	6
13	MP3A	X	-4.209	3
14	MP3A	Z	-2.43	3
15	MP3A	Mx	-.000422	3
16	MP3A	X	-4.209	5
17	MP3A	Z	-2.43	5
18	MP3A	Mx	-.000422	5
19	MP2A	X	-2.8	3
20	MP2A	Z	-1.617	3
21	MP2A	Mx	.000281	3
22	MP1A	X	-2.789	3
23	MP1A	Z	-1.61	3
24	MP1A	Mx	.00028	3
25	MP1A	X	-8.729	2
26	MP1A	Z	-5.04	2
27	MP1A	Mx	-.000875	2
28	MP1A	X	-8.729	6
29	MP1A	Z	-5.04	6
30	MP1A	Mx	-.000875	6
31	MP4A	X	-8.729	2
32	MP4A	Z	-5.04	2
33	MP4A	Mx	-.000875	2
34	MP4A	X	-8.729	6
35	MP4A	Z	-5.04	6
36	MP4A	Mx	-.000875	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-2.418	2
2	MP2A	Z	-4.188	2
3	MP2A	Mx	.004	2
4	MP2A	X	-2.418	6
5	MP2A	Z	-4.188	6
6	MP2A	Mx	.004	6
7	MP2A	X	-2.418	2
8	MP2A	Z	-4.188	2
9	MP2A	Mx	-.003	2
10	MP2A	X	-2.418	6
11	MP2A	Z	-4.188	6
12	MP2A	Mx	-.003	6
13	MP3A	X	-2.299	3
14	MP3A	Z	-3.982	3
15	MP3A	Mx	.000786	3
16	MP3A	X	-2.299	5
17	MP3A	Z	-3.982	5
18	MP3A	Mx	.000786	5
19	MP2A	X	-1.57	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
20	MP2A	Z	-2.719	3
21	MP2A	Mx	-.000537	3
22	MP1A	X	-1.546	3
23	MP1A	Z	-2.679	3
24	MP1A	Mx	-.000529	3
25	MP1A	X	-4.993	2
26	MP1A	Z	-8.648	2
27	MP1A	Mx	.002	2
28	MP1A	X	-4.993	6
29	MP1A	Z	-8.648	6
30	MP1A	Mx	.002	6
31	MP4A	X	-4.993	2
32	MP4A	Z	-8.648	2
33	MP4A	Mx	.002	2
34	MP4A	X	-4.993	6
35	MP4A	Z	-8.648	6
36	MP4A	Mx	.002	6

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	LIVE1	Y	-500	0

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	LIVE2	Y	-500	0

Member Point Loads (BLC 79 : Lv1)

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

Member Point Loads (BLC 80 : Lv2)

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

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	Y	-.981	2
2	MP2A	My	-.000248	2
3	MP2A	Mz	-.000849	2
4	MP2A	Y	-.981	6
5	MP2A	My	-.000248	6
6	MP2A	Mz	-.000849	6
7	MP2A	Y	-.981	2
8	MP2A	Mv	.000879	2
9	MP2A	Mz	9.7e-5	2
10	MP2A	Y	-.981	6
11	MP2A	My	.000879	6
12	MP2A	Mz	9.7e-5	6
13	MP3A	Y	-1.858	3
14	MP3A	My	.000597	3
15	MP3A	Mz	-.000712	3
16	MP3A	Y	-1.858	5
17	MP3A	My	.000597	5
18	MP3A	Mz	-.000712	5
19	MP2A	Y	-3.601	3
20	MP2A	My	-.001	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
21	MP2A	Mz	.001	3
22	MP1A	Y	-2.999	3
23	MP1A	My	-.000964	3
24	MP1A	Mz	.001	3
25	MP1A	Y	-.576	2
26	MP1A	My	.000185	2
27	MP1A	Mz	-.000221	2
28	MP1A	Y	-.576	6
29	MP1A	My	.000185	6
30	MP1A	Mz	-.000221	6
31	MP4A	Y	-.576	2
32	MP4A	My	.000185	2
33	MP4A	Mz	-.000221	2
34	MP4A	Y	-.576	6
35	MP4A	My	.000185	6
36	MP4A	Mz	-.000221	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	Z	-2.453	2
2	MP2A	Mx	.002	2
3	MP2A	Z	-2.453	6
4	MP2A	Mx	.002	6
5	MP2A	Z	-2.453	2
6	MP2A	Mx	-.000243	2
7	MP2A	Z	-2.453	6
8	MP2A	Mx	-.000243	6
9	MP3A	Z	-4.645	3
10	MP3A	Mx	.002	3
11	MP3A	Z	-4.645	5
12	MP3A	Mx	.002	5
13	MP2A	Z	-9.003	3
14	MP2A	Mx	-.003	3
15	MP1A	Z	-7.499	3
16	MP1A	Mx	-.003	3
17	MP1A	Z	-1.44	2
18	MP1A	Mx	.000552	2
19	MP1A	Z	-1.44	6
20	MP1A	Mx	.000552	6
21	MP4A	Z	-1.44	2
22	MP4A	Mx	.000552	2
23	MP4A	Z	-1.44	6
24	MP4A	Mx	.000552	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	2.453	2
2	MP2A	Mx	-.000621	2
3	MP2A	X	2.453	6
4	MP2A	Mx	-.000621	6
5	MP2A	X	2.453	2
6	MP2A	Mx	.002	2
7	MP2A	X	2.453	6
8	MP2A	Mx	.002	6
9	MP3A	X	4.645	3
10	MP3A	Mx	.001	3
11	MP3A	X	4.645	5
12	MP3A	Mx	.001	5

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	-3.826	-3.826	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	-3.826	-3.826	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	-3.826	-3.826	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	-3.826	-3.826	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	-2.107	-2.107	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	-2.107	-2.107	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	-2.107	-2.107	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-2.107	-2.107	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-2.182	-2.182	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-2.182	-2.182	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-2.182	-2.182	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-2.182	-2.182	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	-8.006	-8.006	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	-8.006	-8.006	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	-8.006	-8.006	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	-8.006	-8.006	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	-2.107	-2.107	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	-2.107	-2.107	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	-2.107	-2.107	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	-2.107	-2.107	0	%100
53	M43	X	0	0	0	%100
54	M43	Z	-.002	-.002	0	%100
55	M44A	X	0	0	0	%100
56	M44A	Z	-2.195	-2.195	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	FACE	X	3.634	3.634	0	%100
2	FACE	Z	-6.294	-6.294	0	%100
3	M2	X	3.634	3.634	0	%100
4	M2	Z	-6.294	-6.294	0	%100
5	M13	X	.263	.263	0	%100
6	M13	Z	-.456	-.456	0	%100
7	M14	X	.263	.263	0	%100
8	M14	Z	-.456	-.456	0	%100
9	M15	X	.263	.263	0	%100
10	M15	Z	-.456	-.456	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
11	M16	X	.263	.263	0	%100
12	M16	Z	-.456	-.456	0	%100
13	M17	X	.431	.431	0	%100
14	M17	Z	-.746	-.746	0	%100
15	M18	X	.431	.431	0	%100
16	M18	Z	-.746	-.746	0	%100
17	M19	X	3.025	3.025	0	%100
18	M19	Z	-5.24	-5.24	0	%100
19	M20	X	3.025	3.025	0	%100
20	M20	Z	-5.24	-5.24	0	%100
21	M21	X	.79	.79	0	%100
22	M21	Z	-1.368	-1.368	0	%100
23	M22	X	.79	.79	0	%100
24	M22	Z	-1.368	-1.368	0	%100
25	M23	X	.79	.79	0	%100
26	M23	Z	-1.368	-1.368	0	%100
27	M24	X	.79	.79	0	%100
28	M24	Z	-1.368	-1.368	0	%100
29	M25	X	.872	.872	0	%100
30	M25	Z	-1.511	-1.511	0	%100
31	M26	X	.872	.872	0	%100
32	M26	Z	-1.511	-1.511	0	%100
33	M27	X	1.255	1.255	0	%100
34	M27	Z	-2.174	-2.174	0	%100
35	M28	X	1.255	1.255	0	%100
36	M28	Z	-2.174	-2.174	0	%100
37	MP4A	X	4.003	4.003	0	%100
38	MP4A	Z	-6.933	-6.933	0	%100
39	MP3A	X	4.003	4.003	0	%100
40	MP3A	Z	-6.933	-6.933	0	%100
41	MP2A	X	4.003	4.003	0	%100
42	MP2A	Z	-6.933	-6.933	0	%100
43	MP1A	X	4.003	4.003	0	%100
44	MP1A	Z	-6.933	-6.933	0	%100
45	M44	X	1.053	1.053	0	%100
46	M44	Z	-1.824	-1.824	0	%100
47	M45	X	1.053	1.053	0	%100
48	M45	Z	-1.824	-1.824	0	%100
49	M46	X	1.053	1.053	0	%100
50	M46	Z	-1.824	-1.824	0	%100
51	M47	X	1.053	1.053	0	%100
52	M47	Z	-1.824	-1.824	0	%100
53	M43	X	1.145	1.145	0	%100
54	M43	Z	-1.984	-1.984	0	%100
55	M44A	X	.004	.004	0	%100
56	M44A	Z	-.006	-.006	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	FACE	X	2.098	2.098	0	%100
2	FACE	Z	-1.211	-1.211	0	%100
3	M2	X	2.098	2.098	0	%100
4	M2	Z	-1.211	-1.211	0	%100
5	M13	X	1.368	1.368	0	%100
6	M13	Z	-.79	-.79	0	%100
7	M14	X	1.368	1.368	0	%100
8	M14	Z	-.79	-.79	0	%100
9	M15	X	1.368	1.368	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
10	M15	Z	- .79	- .79	0	%100
11	M16	X	1.368	1.368	0	%100
12	M16	Z	- .79	- .79	0	%100
13	M17	X	.105	.105	0	%100
14	M17	Z	- .061	- .061	0	%100
15	M18	X	.105	.105	0	%100
16	M18	Z	- .061	- .061	0	%100
17	M19	X	4.599	4.599	0	%100
18	M19	Z	-2.655	-2.655	0	%100
19	M20	X	4.599	4.599	0	%100
20	M20	Z	-2.655	-2.655	0	%100
21	M21	X	.456	.456	0	%100
22	M21	Z	- .263	- .263	0	%100
23	M22	X	.456	.456	0	%100
24	M22	Z	- .263	- .263	0	%100
25	M23	X	.456	.456	0	%100
26	M23	Z	- .263	- .263	0	%100
27	M24	X	.456	.456	0	%100
28	M24	Z	- .263	- .263	0	%100
29	M25	X	1.416	1.416	0	%100
30	M25	Z	- .818	- .818	0	%100
31	M26	X	1.416	1.416	0	%100
32	M26	Z	- .818	- .818	0	%100
33	M27	X	2.079	2.079	0	%100
34	M27	Z	-1.201	-1.201	0	%100
35	M28	X	2.079	2.079	0	%100
36	M28	Z	-1.201	-1.201	0	%100
37	MP4A	X	6.933	6.933	0	%100
38	MP4A	Z	-4.003	-4.003	0	%100
39	MP3A	X	6.933	6.933	0	%100
40	MP3A	Z	-4.003	-4.003	0	%100
41	MP2A	X	6.933	6.933	0	%100
42	MP2A	Z	-4.003	-4.003	0	%100
43	MP1A	X	6.933	6.933	0	%100
44	MP1A	Z	-4.003	-4.003	0	%100
45	M44	X	1.824	1.824	0	%100
46	M44	Z	-1.053	-1.053	0	%100
47	M45	X	1.824	1.824	0	%100
48	M45	Z	-1.053	-1.053	0	%100
49	M46	X	1.824	1.824	0	%100
50	M46	Z	-1.053	-1.053	0	%100
51	M47	X	1.824	1.824	0	%100
52	M47	Z	-1.053	-1.053	0	%100
53	M43	X	6.178	6.178	0	%100
54	M43	Z	-3.567	-3.567	0	%100
55	M44A	X	2.301	2.301	0	%100
56	M44A	Z	-1.329	-1.329	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	FACE	X	0	0	0	%100
2	FACE	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	2.107	2.107	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	2.107	2.107	0	%100
8	M14	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
9	M15	X	2.107	2.107	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	2.107	2.107	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	2.346	2.346	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	2.346	2.346	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	2.346	2.346	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	2.346	2.346	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	1.964	1.964	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	1.964	1.964	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	1.964	1.964	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	1.964	1.964	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	8.006	8.006	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	8.006	8.006	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	8.006	8.006	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	8.006	8.006	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	2.107	2.107	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	2.107	2.107	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	2.107	2.107	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	2.107	2.107	0	%100
52	M47	Z	0	0	0	%100
53	M43	X	9.688	9.688	0	%100
54	M43	Z	0	0	0	%100
55	M44A	X	7.495	7.495	0	%100
56	M44A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	FACE	X	2.098	2.098	0	%100
2	FACE	Z	1.211	1.211	0	%100
3	M2	X	2.098	2.098	0	%100
4	M2	Z	1.211	1.211	0	%100
5	M13	X	1.368	1.368	0	%100
6	M13	Z	.79	.79	0	%100
7	M14	X	1.368	1.368	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
8	M14	Z	.79	.79	0	%100
9	M15	X	1.368	1.368	0	%100
10	M15	Z	.79	.79	0	%100
11	M16	X	1.368	1.368	0	%100
12	M16	Z	.79	.79	0	%100
13	M17	X	4.599	4.599	0	%100
14	M17	Z	2.655	2.655	0	%100
15	M18	X	4.599	4.599	0	%100
16	M18	Z	2.655	2.655	0	%100
17	M19	X	.105	.105	0	%100
18	M19	Z	.061	.061	0	%100
19	M20	X	.105	.105	0	%100
20	M20	Z	.061	.061	0	%100
21	M21	X	.456	.456	0	%100
22	M21	Z	.263	.263	0	%100
23	M22	X	.456	.456	0	%100
24	M22	Z	.263	.263	0	%100
25	M23	X	.456	.456	0	%100
26	M23	Z	.263	.263	0	%100
27	M24	X	.456	.456	0	%100
28	M24	Z	.263	.263	0	%100
29	M25	X	2.079	2.079	0	%100
30	M25	Z	1.201	1.201	0	%100
31	M26	X	2.079	2.079	0	%100
32	M26	Z	1.201	1.201	0	%100
33	M27	X	1.416	1.416	0	%100
34	M27	Z	.818	.818	0	%100
35	M28	X	1.416	1.416	0	%100
36	M28	Z	.818	.818	0	%100
37	MP4A	X	6.933	6.933	0	%100
38	MP4A	Z	4.003	4.003	0	%100
39	MP3A	X	6.933	6.933	0	%100
40	MP3A	Z	4.003	4.003	0	%100
41	MP2A	X	6.933	6.933	0	%100
42	MP2A	Z	4.003	4.003	0	%100
43	MP1A	X	6.933	6.933	0	%100
44	MP1A	Z	4.003	4.003	0	%100
45	M44	X	1.824	1.824	0	%100
46	M44	Z	1.053	1.053	0	%100
47	M45	X	1.824	1.824	0	%100
48	M45	Z	1.053	1.053	0	%100
49	M46	X	1.824	1.824	0	%100
50	M46	Z	1.053	1.053	0	%100
51	M47	X	1.824	1.824	0	%100
52	M47	Z	1.053	1.053	0	%100
53	M43	X	6.409	6.409	0	%100
54	M43	Z	3.7	3.7	0	%100
55	M44A	X	8.386	8.386	0	%100
56	M44A	Z	4.842	4.842	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	FACE	X	3.634	3.634	0	%100
2	FACE	Z	6.294	6.294	0	%100
3	M2	X	3.634	3.634	0	%100
4	M2	Z	6.294	6.294	0	%100
5	M13	X	.263	.263	0	%100
6	M13	Z	.456	.456	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
7	M14	X	.263	.263	0	%100
8	M14	Z	.456	.456	0	%100
9	M15	X	.263	.263	0	%100
10	M15	Z	.456	.456	0	%100
11	M16	X	.263	.263	0	%100
12	M16	Z	.456	.456	0	%100
13	M17	X	3.025	3.025	0	%100
14	M17	Z	5.24	5.24	0	%100
15	M18	X	3.025	3.025	0	%100
16	M18	Z	5.24	5.24	0	%100
17	M19	X	.431	.431	0	%100
18	M19	Z	.746	.746	0	%100
19	M20	X	.431	.431	0	%100
20	M20	Z	.746	.746	0	%100
21	M21	X	.79	.79	0	%100
22	M21	Z	1.368	1.368	0	%100
23	M22	X	.79	.79	0	%100
24	M22	Z	1.368	1.368	0	%100
25	M23	X	.79	.79	0	%100
26	M23	Z	1.368	1.368	0	%100
27	M24	X	.79	.79	0	%100
28	M24	Z	1.368	1.368	0	%100
29	M25	X	1.255	1.255	0	%100
30	M25	Z	2.174	2.174	0	%100
31	M26	X	1.255	1.255	0	%100
32	M26	Z	2.174	2.174	0	%100
33	M27	X	.872	.872	0	%100
34	M27	Z	1.511	1.511	0	%100
35	M28	X	.872	.872	0	%100
36	M28	Z	1.511	1.511	0	%100
37	MP4A	X	4.003	4.003	0	%100
38	MP4A	Z	6.933	6.933	0	%100
39	MP3A	X	4.003	4.003	0	%100
40	MP3A	Z	6.933	6.933	0	%100
41	MP2A	X	4.003	4.003	0	%100
42	MP2A	Z	6.933	6.933	0	%100
43	MP1A	X	4.003	4.003	0	%100
44	MP1A	Z	6.933	6.933	0	%100
45	M44	X	1.053	1.053	0	%100
46	M44	Z	1.824	1.824	0	%100
47	M45	X	1.053	1.053	0	%100
48	M45	Z	1.824	1.824	0	%100
49	M46	X	1.053	1.053	0	%100
50	M46	Z	1.824	1.824	0	%100
51	M47	X	1.053	1.053	0	%100
52	M47	Z	1.824	1.824	0	%100
53	M43	X	1.279	1.279	0	%100
54	M43	Z	2.215	2.215	0	%100
55	M44A	X	3.517	3.517	0	%100
56	M44A	Z	6.091	6.091	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	FACE	X	0	0	0	%100
2	FACE	Z	9.691	9.691	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	9.691	9.691	0	%100
5	M13	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
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	3.826	3.826	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	3.826	3.826	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	3.826	3.826	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	3.826	3.826	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	2.107	2.107	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	2.107	2.107	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	2.107	2.107	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	2.107	2.107	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	2.182	2.182	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	2.182	2.182	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	2.182	2.182	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	2.182	2.182	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	8.006	8.006	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	8.006	8.006	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	8.006	8.006	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	8.006	8.006	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	2.107	2.107	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	2.107	2.107	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	2.107	2.107	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	2.107	2.107	0	%100
53	M43	X	0	0	0	%100
54	M43	Z	.002	.002	0	%100
55	M44A	X	0	0	0	%100
56	M44A	Z	2.195	2.195	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	FACE	X	-3.634	-3.634	0	%100
2	FACE	Z	6.294	6.294	0	%100
3	M2	X	-3.634	-3.634	0	%100
4	M2	Z	6.294	6.294	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
5	M13	X	-.263	-.263	0	%100
6	M13	Z	.456	.456	0	%100
7	M14	X	-.263	-.263	0	%100
8	M14	Z	.456	.456	0	%100
9	M15	X	-.263	-.263	0	%100
10	M15	Z	.456	.456	0	%100
11	M16	X	-.263	-.263	0	%100
12	M16	Z	.456	.456	0	%100
13	M17	X	-.431	-.431	0	%100
14	M17	Z	.746	.746	0	%100
15	M18	X	-.431	-.431	0	%100
16	M18	Z	.746	.746	0	%100
17	M19	X	-3.025	-3.025	0	%100
18	M19	Z	5.24	5.24	0	%100
19	M20	X	-3.025	-3.025	0	%100
20	M20	Z	5.24	5.24	0	%100
21	M21	X	-.79	-.79	0	%100
22	M21	Z	1.368	1.368	0	%100
23	M22	X	-.79	-.79	0	%100
24	M22	Z	1.368	1.368	0	%100
25	M23	X	-.79	-.79	0	%100
26	M23	Z	1.368	1.368	0	%100
27	M24	X	-.79	-.79	0	%100
28	M24	Z	1.368	1.368	0	%100
29	M25	X	-.872	-.872	0	%100
30	M25	Z	1.511	1.511	0	%100
31	M26	X	-.872	-.872	0	%100
32	M26	Z	1.511	1.511	0	%100
33	M27	X	-1.255	-1.255	0	%100
34	M27	Z	2.174	2.174	0	%100
35	M28	X	-1.255	-1.255	0	%100
36	M28	Z	2.174	2.174	0	%100
37	MP4A	X	-4.003	-4.003	0	%100
38	MP4A	Z	6.933	6.933	0	%100
39	MP3A	X	-4.003	-4.003	0	%100
40	MP3A	Z	6.933	6.933	0	%100
41	MP2A	X	-4.003	-4.003	0	%100
42	MP2A	Z	6.933	6.933	0	%100
43	MP1A	X	-4.003	-4.003	0	%100
44	MP1A	Z	6.933	6.933	0	%100
45	M44	X	-1.053	-1.053	0	%100
46	M44	Z	1.824	1.824	0	%100
47	M45	X	-1.053	-1.053	0	%100
48	M45	Z	1.824	1.824	0	%100
49	M46	X	-1.053	-1.053	0	%100
50	M46	Z	1.824	1.824	0	%100
51	M47	X	-1.053	-1.053	0	%100
52	M47	Z	1.824	1.824	0	%100
53	M43	X	-1.145	-1.145	0	%100
54	M43	Z	1.984	1.984	0	%100
55	M44A	X	-.004	-.004	0	%100
56	M44A	Z	.006	.006	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	FACE	X	-2.098	-2.098	0	%100
2	FACE	Z	1.211	1.211	0	%100
3	M2	X	-2.098	-2.098	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
4	M2	Z	1.211	1.211	0	%100
5	M13	X	-1.368	-1.368	0	%100
6	M13	Z	.79	.79	0	%100
7	M14	X	-1.368	-1.368	0	%100
8	M14	Z	.79	.79	0	%100
9	M15	X	-1.368	-1.368	0	%100
10	M15	Z	.79	.79	0	%100
11	M16	X	-1.368	-1.368	0	%100
12	M16	Z	.79	.79	0	%100
13	M17	X	-.105	-.105	0	%100
14	M17	Z	.061	.061	0	%100
15	M18	X	-.105	-.105	0	%100
16	M18	Z	.061	.061	0	%100
17	M19	X	-4.599	-4.599	0	%100
18	M19	Z	2.655	2.655	0	%100
19	M20	X	-4.599	-4.599	0	%100
20	M20	Z	2.655	2.655	0	%100
21	M21	X	-.456	-.456	0	%100
22	M21	Z	.263	.263	0	%100
23	M22	X	-.456	-.456	0	%100
24	M22	Z	.263	.263	0	%100
25	M23	X	-.456	-.456	0	%100
26	M23	Z	.263	.263	0	%100
27	M24	X	-.456	-.456	0	%100
28	M24	Z	.263	.263	0	%100
29	M25	X	-1.416	-1.416	0	%100
30	M25	Z	.818	.818	0	%100
31	M26	X	-1.416	-1.416	0	%100
32	M26	Z	.818	.818	0	%100
33	M27	X	-2.079	-2.079	0	%100
34	M27	Z	1.201	1.201	0	%100
35	M28	X	-2.079	-2.079	0	%100
36	M28	Z	1.201	1.201	0	%100
37	MP4A	X	-6.933	-6.933	0	%100
38	MP4A	Z	4.003	4.003	0	%100
39	MP3A	X	-6.933	-6.933	0	%100
40	MP3A	Z	4.003	4.003	0	%100
41	MP2A	X	-6.933	-6.933	0	%100
42	MP2A	Z	4.003	4.003	0	%100
43	MP1A	X	-6.933	-6.933	0	%100
44	MP1A	Z	4.003	4.003	0	%100
45	M44	X	-1.824	-1.824	0	%100
46	M44	Z	1.053	1.053	0	%100
47	M45	X	-1.824	-1.824	0	%100
48	M45	Z	1.053	1.053	0	%100
49	M46	X	-1.824	-1.824	0	%100
50	M46	Z	1.053	1.053	0	%100
51	M47	X	-1.824	-1.824	0	%100
52	M47	Z	1.053	1.053	0	%100
53	M43	X	-6.178	-6.178	0	%100
54	M43	Z	3.567	3.567	0	%100
55	M44A	X	-2.301	-2.301	0	%100
56	M44A	Z	1.329	1.329	0	%100

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

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



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	-2.107	-2.107	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	-2.107	-2.107	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	-2.107	-2.107	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	-2.107	-2.107	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	-2.346	-2.346	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	-2.346	-2.346	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	-2.346	-2.346	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	-2.346	-2.346	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	-1.964	-1.964	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	-1.964	-1.964	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	-1.964	-1.964	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	-1.964	-1.964	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	-8.006	-8.006	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	-8.006	-8.006	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	-8.006	-8.006	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	-8.006	-8.006	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	-2.107	-2.107	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	-2.107	-2.107	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	-2.107	-2.107	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	-2.107	-2.107	0	%100
52	M47	Z	0	0	0	%100
53	M43	X	-9.688	-9.688	0	%100
54	M43	Z	0	0	0	%100
55	M44A	X	-7.495	-7.495	0	%100
56	M44A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	FACE	X	-2.098	-2.098	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft, %]	End Location[ft, %]
2	FACE	Z	-1.211	-1.211	0 %100
3	M2	X	-2.098	-2.098	0 %100
4	M2	Z	-1.211	-1.211	0 %100
5	M13	X	-1.368	-1.368	0 %100
6	M13	Z	-.79	-.79	0 %100
7	M14	X	-1.368	-1.368	0 %100
8	M14	Z	-.79	-.79	0 %100
9	M15	X	-1.368	-1.368	0 %100
10	M15	Z	-.79	-.79	0 %100
11	M16	X	-1.368	-1.368	0 %100
12	M16	Z	-.79	-.79	0 %100
13	M17	X	-4.599	-4.599	0 %100
14	M17	Z	-2.655	-2.655	0 %100
15	M18	X	-4.599	-4.599	0 %100
16	M18	Z	-2.655	-2.655	0 %100
17	M19	X	-.105	-.105	0 %100
18	M19	Z	-.061	-.061	0 %100
19	M20	X	-.105	-.105	0 %100
20	M20	Z	-.061	-.061	0 %100
21	M21	X	-.456	-.456	0 %100
22	M21	Z	-.263	-.263	0 %100
23	M22	X	-.456	-.456	0 %100
24	M22	Z	-.263	-.263	0 %100
25	M23	X	-.456	-.456	0 %100
26	M23	Z	-.263	-.263	0 %100
27	M24	X	-.456	-.456	0 %100
28	M24	Z	-.263	-.263	0 %100
29	M25	X	-2.079	-2.079	0 %100
30	M25	Z	-1.201	-1.201	0 %100
31	M26	X	-2.079	-2.079	0 %100
32	M26	Z	-1.201	-1.201	0 %100
33	M27	X	-1.416	-1.416	0 %100
34	M27	Z	-.818	-.818	0 %100
35	M28	X	-1.416	-1.416	0 %100
36	M28	Z	-.818	-.818	0 %100
37	MP4A	X	-6.933	-6.933	0 %100
38	MP4A	Z	-4.003	-4.003	0 %100
39	MP3A	X	-6.933	-6.933	0 %100
40	MP3A	Z	-4.003	-4.003	0 %100
41	MP2A	X	-6.933	-6.933	0 %100
42	MP2A	Z	-4.003	-4.003	0 %100
43	MP1A	X	-6.933	-6.933	0 %100
44	MP1A	Z	-4.003	-4.003	0 %100
45	M44	X	-1.824	-1.824	0 %100
46	M44	Z	-1.053	-1.053	0 %100
47	M45	X	-1.824	-1.824	0 %100
48	M45	Z	-1.053	-1.053	0 %100
49	M46	X	-1.824	-1.824	0 %100
50	M46	Z	-1.053	-1.053	0 %100
51	M47	X	-1.824	-1.824	0 %100
52	M47	Z	-1.053	-1.053	0 %100
53	M43	X	-6.409	-6.409	0 %100
54	M43	Z	-3.7	-3.7	0 %100
55	M44A	X	-8.386	-8.386	0 %100
56	M44A	Z	-4.842	-4.842	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft, %]	End Location[ft, %]
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Member Distributed Loads (BLC 52 : Structure Wo (330 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft...]	Start Location[ft.%]	End Location[ft.%]
1	FACE	X	-3.634	-3.634	0 %100
2	FACE	Z	-6.294	-6.294	0 %100
3	M2	X	-3.634	-3.634	0 %100
4	M2	Z	-6.294	-6.294	0 %100
5	M13	X	-.263	-.263	0 %100
6	M13	Z	-.456	-.456	0 %100
7	M14	X	-.263	-.263	0 %100
8	M14	Z	-.456	-.456	0 %100
9	M15	X	-.263	-.263	0 %100
10	M15	Z	-.456	-.456	0 %100
11	M16	X	-.263	-.263	0 %100
12	M16	Z	-.456	-.456	0 %100
13	M17	X	-3.025	-3.025	0 %100
14	M17	Z	-5.24	-5.24	0 %100
15	M18	X	-3.025	-3.025	0 %100
16	M18	Z	-5.24	-5.24	0 %100
17	M19	X	-.431	-.431	0 %100
18	M19	Z	-.746	-.746	0 %100
19	M20	X	-.431	-.431	0 %100
20	M20	Z	-.746	-.746	0 %100
21	M21	X	-.79	-.79	0 %100
22	M21	Z	-1.368	-1.368	0 %100
23	M22	X	-.79	-.79	0 %100
24	M22	Z	-1.368	-1.368	0 %100
25	M23	X	-.79	-.79	0 %100
26	M23	Z	-1.368	-1.368	0 %100
27	M24	X	-.79	-.79	0 %100
28	M24	Z	-1.368	-1.368	0 %100
29	M25	X	-1.255	-1.255	0 %100
30	M25	Z	-2.174	-2.174	0 %100
31	M26	X	-1.255	-1.255	0 %100
32	M26	Z	-2.174	-2.174	0 %100
33	M27	X	-.872	-.872	0 %100
34	M27	Z	-1.511	-1.511	0 %100
35	M28	X	-.872	-.872	0 %100
36	M28	Z	-1.511	-1.511	0 %100
37	MP4A	X	-4.003	-4.003	0 %100
38	MP4A	Z	-6.933	-6.933	0 %100
39	MP3A	X	-4.003	-4.003	0 %100
40	MP3A	Z	-6.933	-6.933	0 %100
41	MP2A	X	-4.003	-4.003	0 %100
42	MP2A	Z	-6.933	-6.933	0 %100
43	MP1A	X	-4.003	-4.003	0 %100
44	MP1A	Z	-6.933	-6.933	0 %100
45	M44	X	-1.053	-1.053	0 %100
46	M44	Z	-1.824	-1.824	0 %100
47	M45	X	-1.053	-1.053	0 %100
48	M45	Z	-1.824	-1.824	0 %100
49	M46	X	-1.053	-1.053	0 %100
50	M46	Z	-1.824	-1.824	0 %100
51	M47	X	-1.053	-1.053	0 %100
52	M47	Z	-1.824	-1.824	0 %100
53	M43	X	-1.279	-1.279	0 %100
54	M43	Z	-2.215	-2.215	0 %100
55	M44A	X	-3.517	-3.517	0 %100
56	M44A	Z	-6.091	-6.091	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft...]	Start Location[ft.%]	End Location[ft.%]
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Member Distributed Loads (BLC 53 : Structure Wi (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	FACE	X	0	0	0	%100
2	FACE	Z	-3.035	-3.035	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-3.035	-3.035	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	-1.316	-1.316	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	-1.316	-1.316	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	-1.316	-1.316	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	-1.316	-1.316	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	-1.161	-1.161	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	-1.161	-1.161	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	-1.161	-1.161	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-1.161	-1.161	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-1.473	-1.473	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-1.473	-1.473	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-1.473	-1.473	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-1.473	-1.473	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	-2.742	-2.742	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	-2.742	-2.742	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	-2.742	-2.742	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	-2.742	-2.742	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	-1.526	-1.526	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	-1.526	-1.526	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	-1.526	-1.526	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	-1.526	-1.526	0	%100
53	M43	X	0	0	0	%100
54	M43	Z	-.000767	-.000767	0	%100
55	M44A	X	0	0	0	%100
56	M44A	Z	-.688	-.688	0	%100

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

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



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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....	Start Location[ft.%]	End Location[ft.%]
1	FACE	X	1.138	1.138	0	%100
2	FACE	Z	-1.971	-1.971	0	%100
3	M2	X	1.138	1.138	0	%100
4	M2	Z	-1.971	-1.971	0	%100
5	M13	X	.144	.144	0	%100
6	M13	Z	-.25	-.25	0	%100
7	M14	X	.144	.144	0	%100
8	M14	Z	-.25	-.25	0	%100
9	M15	X	.144	.144	0	%100
10	M15	Z	-.25	-.25	0	%100
11	M16	X	.144	.144	0	%100
12	M16	Z	-.25	-.25	0	%100
13	M17	X	.148	.148	0	%100
14	M17	Z	-.257	-.257	0	%100
15	M18	X	.148	.148	0	%100
16	M18	Z	-.257	-.257	0	%100
17	M19	X	1.041	1.041	0	%100
18	M19	Z	-1.802	-1.802	0	%100
19	M20	X	1.041	1.041	0	%100
20	M20	Z	-1.802	-1.802	0	%100
21	M21	X	.435	.435	0	%100
22	M21	Z	-.754	-.754	0	%100
23	M22	X	.435	.435	0	%100
24	M22	Z	-.754	-.754	0	%100
25	M23	X	.435	.435	0	%100
26	M23	Z	-.754	-.754	0	%100
27	M24	X	.435	.435	0	%100
28	M24	Z	-.754	-.754	0	%100
29	M25	X	.589	.589	0	%100
30	M25	Z	-1.02	-1.02	0	%100
31	M26	X	.589	.589	0	%100
32	M26	Z	-1.02	-1.02	0	%100
33	M27	X	.847	.847	0	%100
34	M27	Z	-1.468	-1.468	0	%100
35	M28	X	.847	.847	0	%100
36	M28	Z	-1.468	-1.468	0	%100
37	MP4A	X	1.371	1.371	0	%100
38	MP4A	Z	-2.375	-2.375	0	%100
39	MP3A	X	1.371	1.371	0	%100
40	MP3A	Z	-2.375	-2.375	0	%100
41	MP2A	X	1.371	1.371	0	%100
42	MP2A	Z	-2.375	-2.375	0	%100
43	MP1A	X	1.371	1.371	0	%100
44	MP1A	Z	-2.375	-2.375	0	%100
45	M44	X	.763	.763	0	%100
46	M44	Z	-1.321	-1.321	0	%100
47	M45	X	.763	.763	0	%100
48	M45	Z	-1.321	-1.321	0	%100
49	M46	X	.763	.763	0	%100
50	M46	Z	-1.321	-1.321	0	%100
51	M47	X	.763	.763	0	%100
52	M47	Z	-1.321	-1.321	0	%100
53	M43	X	.359	.359	0	%100
54	M43	Z	-.621	-.621	0	%100
55	M44A	X	.001	.001	0	%100
56	M44A	Z	-.002	-.002	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft	End Magnitude[lb/ft	Start Location[ft.%]	End Location[ft.%]
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Member Distributed Loads (BLC 55 : Structure Wi (60 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location(ft.%)	End Location(ft.%)
1	FACE	X	.657	.657	0	%100
2	FACE	Z	-.379	-.379	0	%100
3	M2	X	.657	.657	0	%100
4	M2	Z	-.379	-.379	0	%100
5	M13	X	.75	.75	0	%100
6	M13	Z	-.433	-.433	0	%100
7	M14	X	.75	.75	0	%100
8	M14	Z	-.433	-.433	0	%100
9	M15	X	.75	.75	0	%100
10	M15	Z	-.433	-.433	0	%100
11	M16	X	.75	.75	0	%100
12	M16	Z	-.433	-.433	0	%100
13	M17	X	.036	.036	0	%100
14	M17	Z	-.021	-.021	0	%100
15	M18	X	.036	.036	0	%100
16	M18	Z	-.021	-.021	0	%100
17	M19	X	1.582	1.582	0	%100
18	M19	Z	-.913	-.913	0	%100
19	M20	X	1.582	1.582	0	%100
20	M20	Z	-.913	-.913	0	%100
21	M21	X	.251	.251	0	%100
22	M21	Z	-.145	-.145	0	%100
23	M22	X	.251	.251	0	%100
24	M22	Z	-.145	-.145	0	%100
25	M23	X	.251	.251	0	%100
26	M23	Z	-.145	-.145	0	%100
27	M24	X	.251	.251	0	%100
28	M24	Z	-.145	-.145	0	%100
29	M25	X	.956	.956	0	%100
30	M25	Z	-.552	-.552	0	%100
31	M26	X	.956	.956	0	%100
32	M26	Z	-.552	-.552	0	%100
33	M27	X	1.404	1.404	0	%100
34	M27	Z	-.811	-.811	0	%100
35	M28	X	1.404	1.404	0	%100
36	M28	Z	-.811	-.811	0	%100
37	MP4A	X	2.375	2.375	0	%100
38	MP4A	Z	-1.371	-1.371	0	%100
39	MP3A	X	2.375	2.375	0	%100
40	MP3A	Z	-1.371	-1.371	0	%100
41	MP2A	X	2.375	2.375	0	%100
42	MP2A	Z	-1.371	-1.371	0	%100
43	MP1A	X	2.375	2.375	0	%100
44	MP1A	Z	-1.371	-1.371	0	%100
45	M44	X	1.321	1.321	0	%100
46	M44	Z	-.763	-.763	0	%100
47	M45	X	1.321	1.321	0	%100
48	M45	Z	-.763	-.763	0	%100
49	M46	X	1.321	1.321	0	%100
50	M46	Z	-.763	-.763	0	%100
51	M47	X	1.321	1.321	0	%100
52	M47	Z	-.763	-.763	0	%100
53	M43	X	1.935	1.935	0	%100
54	M43	Z	-1.117	-1.117	0	%100
55	M44A	X	.721	.721	0	%100
56	M44A	Z	-.416	-.416	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location(ft.%)	End Location(ft.%)
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Member Distributed Loads (BLC 56 : Structure Wi (90 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft.%]	End Location[ft.%]
1	FACE	X	0	0	%100
2	FACE	Z	0	0	%100
3	M2	X	0	0	%100
4	M2	Z	0	0	%100
5	M13	X	1.155	1.155	%100
6	M13	Z	0	0	%100
7	M14	X	1.155	1.155	%100
8	M14	Z	0	0	%100
9	M15	X	1.155	1.155	%100
10	M15	Z	0	0	%100
11	M16	X	1.155	1.155	%100
12	M16	Z	0	0	%100
13	M17	X	.807	.807	%100
14	M17	Z	0	0	%100
15	M18	X	.807	.807	%100
16	M18	Z	0	0	%100
17	M19	X	.807	.807	%100
18	M19	Z	0	0	%100
19	M20	X	.807	.807	%100
20	M20	Z	0	0	%100
21	M21	X	0	0	%100
22	M21	Z	0	0	%100
23	M22	X	0	0	%100
24	M22	Z	0	0	%100
25	M23	X	0	0	%100
26	M23	Z	0	0	%100
27	M24	X	0	0	%100
28	M24	Z	0	0	%100
29	M25	X	1.326	1.326	%100
30	M25	Z	0	0	%100
31	M26	X	1.326	1.326	%100
32	M26	Z	0	0	%100
33	M27	X	1.326	1.326	%100
34	M27	Z	0	0	%100
35	M28	X	1.326	1.326	%100
36	M28	Z	0	0	%100
37	MP4A	X	2.742	2.742	%100
38	MP4A	Z	0	0	%100
39	MP3A	X	2.742	2.742	%100
40	MP3A	Z	0	0	%100
41	MP2A	X	2.742	2.742	%100
42	MP2A	Z	0	0	%100
43	MP1A	X	2.742	2.742	%100
44	MP1A	Z	0	0	%100
45	M44	X	1.526	1.526	%100
46	M44	Z	0	0	%100
47	M45	X	1.526	1.526	%100
48	M45	Z	0	0	%100
49	M46	X	1.526	1.526	%100
50	M46	Z	0	0	%100
51	M47	X	1.526	1.526	%100
52	M47	Z	0	0	%100
53	M43	X	3.034	3.034	%100
54	M43	Z	0	0	%100
55	M44A	X	2.347	2.347	%100
56	M44A	Z	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft	End Magnitude[lb/ft	Start Location[ft %]	End Location[ft %]
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Member Distributed Loads (BLC 57 : Structure Wi (120 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	FACE	X	.657	.657	0	%100
2	FACE	Z	.379	.379	0	%100
3	M2	X	.657	.657	0	%100
4	M2	Z	.379	.379	0	%100
5	M13	X	.75	.75	0	%100
6	M13	Z	.433	.433	0	%100
7	M14	X	.75	.75	0	%100
8	M14	Z	.433	.433	0	%100
9	M15	X	.75	.75	0	%100
10	M15	Z	.433	.433	0	%100
11	M16	X	.75	.75	0	%100
12	M16	Z	.433	.433	0	%100
13	M17	X	1.582	1.582	0	%100
14	M17	Z	.913	.913	0	%100
15	M18	X	1.582	1.582	0	%100
16	M18	Z	.913	.913	0	%100
17	M19	X	.036	.036	0	%100
18	M19	Z	.021	.021	0	%100
19	M20	X	.036	.036	0	%100
20	M20	Z	.021	.021	0	%100
21	M21	X	.251	.251	0	%100
22	M21	Z	.145	.145	0	%100
23	M22	X	.251	.251	0	%100
24	M22	Z	.145	.145	0	%100
25	M23	X	.251	.251	0	%100
26	M23	Z	.145	.145	0	%100
27	M24	X	.251	.251	0	%100
28	M24	Z	.145	.145	0	%100
29	M25	X	1.404	1.404	0	%100
30	M25	Z	.811	.811	0	%100
31	M26	X	1.404	1.404	0	%100
32	M26	Z	.811	.811	0	%100
33	M27	X	.956	.956	0	%100
34	M27	Z	.552	.552	0	%100
35	M28	X	.956	.956	0	%100
36	M28	Z	.552	.552	0	%100
37	MP4A	X	2.375	2.375	0	%100
38	MP4A	Z	1.371	1.371	0	%100
39	MP3A	X	2.375	2.375	0	%100
40	MP3A	Z	1.371	1.371	0	%100
41	MP2A	X	2.375	2.375	0	%100
42	MP2A	Z	1.371	1.371	0	%100
43	MP1A	X	2.375	2.375	0	%100
44	MP1A	Z	1.371	1.371	0	%100
45	M44	X	1.321	1.321	0	%100
46	M44	Z	.763	.763	0	%100
47	M45	X	1.321	1.321	0	%100
48	M45	Z	.763	.763	0	%100
49	M46	X	1.321	1.321	0	%100
50	M46	Z	.763	.763	0	%100
51	M47	X	1.321	1.321	0	%100
52	M47	Z	.763	.763	0	%100
53	M43	X	2.007	2.007	0	%100
54	M43	Z	1.159	1.159	0	%100
55	M44A	X	2.626	2.626	0	%100
56	M44A	Z	1.516	1.516	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
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Member Distributed Loads (BLC 58 : Structure Wi (150 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	FACE	X	1.138	1.138	0	%100
2	FACE	Z	1.971	1.971	0	%100
3	M2	X	1.138	1.138	0	%100
4	M2	Z	1.971	1.971	0	%100
5	M13	X	.144	.144	0	%100
6	M13	Z	.25	.25	0	%100
7	M14	X	.144	.144	0	%100
8	M14	Z	.25	.25	0	%100
9	M15	X	.144	.144	0	%100
10	M15	Z	.25	.25	0	%100
11	M16	X	.144	.144	0	%100
12	M16	Z	.25	.25	0	%100
13	M17	X	1.041	1.041	0	%100
14	M17	Z	1.802	1.802	0	%100
15	M18	X	1.041	1.041	0	%100
16	M18	Z	1.802	1.802	0	%100
17	M19	X	.148	.148	0	%100
18	M19	Z	.257	.257	0	%100
19	M20	X	.148	.148	0	%100
20	M20	Z	.257	.257	0	%100
21	M21	X	.435	.435	0	%100
22	M21	Z	.754	.754	0	%100
23	M22	X	.435	.435	0	%100
24	M22	Z	.754	.754	0	%100
25	M23	X	.435	.435	0	%100
26	M23	Z	.754	.754	0	%100
27	M24	X	.435	.435	0	%100
28	M24	Z	.754	.754	0	%100
29	M25	X	.847	.847	0	%100
30	M25	Z	1.468	1.468	0	%100
31	M26	X	.847	.847	0	%100
32	M26	Z	1.468	1.468	0	%100
33	M27	X	.589	.589	0	%100
34	M27	Z	1.02	1.02	0	%100
35	M28	X	.589	.589	0	%100
36	M28	Z	1.02	1.02	0	%100
37	MP4A	X	1.371	1.371	0	%100
38	MP4A	Z	2.375	2.375	0	%100
39	MP3A	X	1.371	1.371	0	%100
40	MP3A	Z	2.375	2.375	0	%100
41	MP2A	X	1.371	1.371	0	%100
42	MP2A	Z	2.375	2.375	0	%100
43	MP1A	X	1.371	1.371	0	%100
44	MP1A	Z	2.375	2.375	0	%100
45	M44	X	.763	.763	0	%100
46	M44	Z	1.321	1.321	0	%100
47	M45	X	.763	.763	0	%100
48	M45	Z	1.321	1.321	0	%100
49	M46	X	.763	.763	0	%100
50	M46	Z	1.321	1.321	0	%100
51	M47	X	.763	.763	0	%100
52	M47	Z	1.321	1.321	0	%100
53	M43	X	.4	.4	0	%100
54	M43	Z	.694	.694	0	%100
55	M44A	X	1.101	1.101	0	%100
56	M44A	Z	1.908	1.908	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft	End Magnitude[lb/ft	Start Location[ft %]	End Location[ft %]
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Member Distributed Loads (BLC 59 : Structure Wi (180 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location(ft.%)	End Location(ft.%)
1	FACE	X	0	0	0	%100
2	FACE	Z	3.035	3.035	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	3.035	3.035	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	1.316	1.316	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	1.316	1.316	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	1.316	1.316	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	1.316	1.316	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	1.161	1.161	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	1.161	1.161	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	1.161	1.161	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	1.161	1.161	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	1.473	1.473	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	1.473	1.473	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	1.473	1.473	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	1.473	1.473	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	2.742	2.742	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	2.742	2.742	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	2.742	2.742	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	2.742	2.742	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	1.526	1.526	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	1.526	1.526	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	1.526	1.526	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	1.526	1.526	0	%100
53	M43	X	0	0	0	%100
54	M43	Z	.000767	.000767	0	%100
55	M44A	X	0	0	0	%100
56	M44A	Z	.688	.688	0	%100

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

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



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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft...]	Start Location[ft.%]	End Location[ft.%]
1	FACE	X	-1.138	-1.138	0	%100
2	FACE	Z	1.971	1.971	0	%100
3	M2	X	-1.138	-1.138	0	%100
4	M2	Z	1.971	1.971	0	%100
5	M13	X	-.144	-.144	0	%100
6	M13	Z	.25	.25	0	%100
7	M14	X	-.144	-.144	0	%100
8	M14	Z	.25	.25	0	%100
9	M15	X	-.144	-.144	0	%100
10	M15	Z	.25	.25	0	%100
11	M16	X	-.144	-.144	0	%100
12	M16	Z	.25	.25	0	%100
13	M17	X	-.148	-.148	0	%100
14	M17	Z	.257	.257	0	%100
15	M18	X	-.148	-.148	0	%100
16	M18	Z	.257	.257	0	%100
17	M19	X	-1.041	-1.041	0	%100
18	M19	Z	1.802	1.802	0	%100
19	M20	X	-1.041	-1.041	0	%100
20	M20	Z	1.802	1.802	0	%100
21	M21	X	-.435	-.435	0	%100
22	M21	Z	.754	.754	0	%100
23	M22	X	-.435	-.435	0	%100
24	M22	Z	.754	.754	0	%100
25	M23	X	-.435	-.435	0	%100
26	M23	Z	.754	.754	0	%100
27	M24	X	-.435	-.435	0	%100
28	M24	Z	.754	.754	0	%100
29	M25	X	-.589	-.589	0	%100
30	M25	Z	1.02	1.02	0	%100
31	M26	X	-.589	-.589	0	%100
32	M26	Z	1.02	1.02	0	%100
33	M27	X	-.847	-.847	0	%100
34	M27	Z	1.468	1.468	0	%100
35	M28	X	-.847	-.847	0	%100
36	M28	Z	1.468	1.468	0	%100
37	MP4A	X	-1.371	-1.371	0	%100
38	MP4A	Z	2.375	2.375	0	%100
39	MP3A	X	-1.371	-1.371	0	%100
40	MP3A	Z	2.375	2.375	0	%100
41	MP2A	X	-1.371	-1.371	0	%100
42	MP2A	Z	2.375	2.375	0	%100
43	MP1A	X	-1.371	-1.371	0	%100
44	MP1A	Z	2.375	2.375	0	%100
45	M44	X	-.763	-.763	0	%100
46	M44	Z	1.321	1.321	0	%100
47	M45	X	-.763	-.763	0	%100
48	M45	Z	1.321	1.321	0	%100
49	M46	X	-.763	-.763	0	%100
50	M46	Z	1.321	1.321	0	%100
51	M47	X	-.763	-.763	0	%100
52	M47	Z	1.321	1.321	0	%100
53	M43	X	-.359	-.359	0	%100
54	M43	Z	.621	.621	0	%100
55	M44A	X	-.001	-.001	0	%100
56	M44A	Z	.002	.002	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft]	End Magnitude[lb/ft]	Start Location[ft.%]	End Location[ft.%]
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Member Distributed Loads (BLC 61 : Structure Wi (240 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	FACE	X	-.657	-.657	0	%100
2	FACE	Z	.379	.379	0	%100
3	M2	X	-.657	-.657	0	%100
4	M2	Z	.379	.379	0	%100
5	M13	X	-.75	-.75	0	%100
6	M13	Z	.433	.433	0	%100
7	M14	X	-.75	-.75	0	%100
8	M14	Z	.433	.433	0	%100
9	M15	X	-.75	-.75	0	%100
10	M15	Z	.433	.433	0	%100
11	M16	X	-.75	-.75	0	%100
12	M16	Z	.433	.433	0	%100
13	M17	X	-.036	-.036	0	%100
14	M17	Z	.021	.021	0	%100
15	M18	X	-.036	-.036	0	%100
16	M18	Z	.021	.021	0	%100
17	M19	X	-1.582	-1.582	0	%100
18	M19	Z	.913	.913	0	%100
19	M20	X	-1.582	-1.582	0	%100
20	M20	Z	.913	.913	0	%100
21	M21	X	-.251	-.251	0	%100
22	M21	Z	.145	.145	0	%100
23	M22	X	-.251	-.251	0	%100
24	M22	Z	.145	.145	0	%100
25	M23	X	-.251	-.251	0	%100
26	M23	Z	.145	.145	0	%100
27	M24	X	-.251	-.251	0	%100
28	M24	Z	.145	.145	0	%100
29	M25	X	-.956	-.956	0	%100
30	M25	Z	.552	.552	0	%100
31	M26	X	-.956	-.956	0	%100
32	M26	Z	.552	.552	0	%100
33	M27	X	-1.404	-1.404	0	%100
34	M27	Z	.811	.811	0	%100
35	M28	X	-1.404	-1.404	0	%100
36	M28	Z	.811	.811	0	%100
37	MP4A	X	-2.375	-2.375	0	%100
38	MP4A	Z	1.371	1.371	0	%100
39	MP3A	X	-2.375	-2.375	0	%100
40	MP3A	Z	1.371	1.371	0	%100
41	MP2A	X	-2.375	-2.375	0	%100
42	MP2A	Z	1.371	1.371	0	%100
43	MP1A	X	-2.375	-2.375	0	%100
44	MP1A	Z	1.371	1.371	0	%100
45	M44	X	-1.321	-1.321	0	%100
46	M44	Z	.763	.763	0	%100
47	M45	X	-1.321	-1.321	0	%100
48	M45	Z	.763	.763	0	%100
49	M46	X	-1.321	-1.321	0	%100
50	M46	Z	.763	.763	0	%100
51	M47	X	-1.321	-1.321	0	%100
52	M47	Z	.763	.763	0	%100
53	M43	X	-1.935	-1.935	0	%100
54	M43	Z	1.117	1.117	0	%100
55	M44A	X	-.721	-.721	0	%100
56	M44A	Z	.416	.416	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
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Member Distributed Loads (BLC 63 : Structure Wi (300 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	FACE	X	-657	-657	0	%100
2	FACE	Z	-.379	-.379	0	%100
3	M2	X	-657	-657	0	%100
4	M2	Z	-.379	-.379	0	%100
5	M13	X	-.75	-.75	0	%100
6	M13	Z	-.433	-.433	0	%100
7	M14	X	-.75	-.75	0	%100
8	M14	Z	-.433	-.433	0	%100
9	M15	X	-.75	-.75	0	%100
10	M15	Z	-.433	-.433	0	%100
11	M16	X	-.75	-.75	0	%100
12	M16	Z	-.433	-.433	0	%100
13	M17	X	-1.582	-1.582	0	%100
14	M17	Z	-.913	-.913	0	%100
15	M18	X	-1.582	-1.582	0	%100
16	M18	Z	-.913	-.913	0	%100
17	M19	X	-.036	-.036	0	%100
18	M19	Z	-.021	-.021	0	%100
19	M20	X	-.036	-.036	0	%100
20	M20	Z	-.021	-.021	0	%100
21	M21	X	-.251	-.251	0	%100
22	M21	Z	-.145	-.145	0	%100
23	M22	X	-.251	-.251	0	%100
24	M22	Z	-.145	-.145	0	%100
25	M23	X	-.251	-.251	0	%100
26	M23	Z	-.145	-.145	0	%100
27	M24	X	-.251	-.251	0	%100
28	M24	Z	-.145	-.145	0	%100
29	M25	X	-1.404	-1.404	0	%100
30	M25	Z	-.811	-.811	0	%100
31	M26	X	-1.404	-1.404	0	%100
32	M26	Z	-.811	-.811	0	%100
33	M27	X	-.956	-.956	0	%100
34	M27	Z	-.552	-.552	0	%100
35	M28	X	-.956	-.956	0	%100
36	M28	Z	-.552	-.552	0	%100
37	MP4A	X	-2.375	-2.375	0	%100
38	MP4A	Z	-1.371	-1.371	0	%100
39	MP3A	X	-2.375	-2.375	0	%100
40	MP3A	Z	-1.371	-1.371	0	%100
41	MP2A	X	-2.375	-2.375	0	%100
42	MP2A	Z	-1.371	-1.371	0	%100
43	MP1A	X	-2.375	-2.375	0	%100
44	MP1A	Z	-1.371	-1.371	0	%100
45	M44	X	-1.321	-1.321	0	%100
46	M44	Z	-.763	-.763	0	%100
47	M45	X	-1.321	-1.321	0	%100
48	M45	Z	-.763	-.763	0	%100
49	M46	X	-1.321	-1.321	0	%100
50	M46	Z	-.763	-.763	0	%100
51	M47	X	-1.321	-1.321	0	%100
52	M47	Z	-.763	-.763	0	%100
53	M43	X	-2.007	-2.007	0	%100
54	M43	Z	-1.159	-1.159	0	%100
55	M44A	X	-2.626	-2.626	0	%100
56	M44A	Z	-1.516	-1.516	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
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Member Distributed Loads (BLC 64 : Structure Wi (330 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location(ft.%)	End Location(ft.%)
1	FACE	X	-1.138	-1.138	0 %100
2	FACE	Z	-1.971	-1.971	0 %100
3	M2	X	-1.138	-1.138	0 %100
4	M2	Z	-1.971	-1.971	0 %100
5	M13	X	-.144	-.144	0 %100
6	M13	Z	-.25	-.25	0 %100
7	M14	X	-.144	-.144	0 %100
8	M14	Z	-.25	-.25	0 %100
9	M15	X	-.144	-.144	0 %100
10	M15	Z	-.25	-.25	0 %100
11	M16	X	-.144	-.144	0 %100
12	M16	Z	-.25	-.25	0 %100
13	M17	X	-1.041	-1.041	0 %100
14	M17	Z	-1.802	-1.802	0 %100
15	M18	X	-1.041	-1.041	0 %100
16	M18	Z	-1.802	-1.802	0 %100
17	M19	X	-.148	-.148	0 %100
18	M19	Z	-.257	-.257	0 %100
19	M20	X	-.148	-.148	0 %100
20	M20	Z	-.257	-.257	0 %100
21	M21	X	-.435	-.435	0 %100
22	M21	Z	-.754	-.754	0 %100
23	M22	X	-.435	-.435	0 %100
24	M22	Z	-.754	-.754	0 %100
25	M23	X	-.435	-.435	0 %100
26	M23	Z	-.754	-.754	0 %100
27	M24	X	-.435	-.435	0 %100
28	M24	Z	-.754	-.754	0 %100
29	M25	X	-.847	-.847	0 %100
30	M25	Z	-1.468	-1.468	0 %100
31	M26	X	-.847	-.847	0 %100
32	M26	Z	-1.468	-1.468	0 %100
33	M27	X	-.589	-.589	0 %100
34	M27	Z	-1.02	-1.02	0 %100
35	M28	X	-.589	-.589	0 %100
36	M28	Z	-1.02	-1.02	0 %100
37	MP4A	X	-1.371	-1.371	0 %100
38	MP4A	Z	-2.375	-2.375	0 %100
39	MP3A	X	-1.371	-1.371	0 %100
40	MP3A	Z	-2.375	-2.375	0 %100
41	MP2A	X	-1.371	-1.371	0 %100
42	MP2A	Z	-2.375	-2.375	0 %100
43	MP1A	X	-1.371	-1.371	0 %100
44	MP1A	Z	-2.375	-2.375	0 %100
45	M44	X	-.763	-.763	0 %100
46	M44	Z	-1.321	-1.321	0 %100
47	M45	X	-.763	-.763	0 %100
48	M45	Z	-1.321	-1.321	0 %100
49	M46	X	-.763	-.763	0 %100
50	M46	Z	-1.321	-1.321	0 %100
51	M47	X	-.763	-.763	0 %100
52	M47	Z	-1.321	-1.321	0 %100
53	M43	X	-.4	-.4	0 %100
54	M43	Z	-.694	-.694	0 %100
55	M44A	X	-1.101	-1.101	0 %100
56	M44A	Z	-1.908	-1.908	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.	End Magnitude[lb/ft.	Start Location(ft.%)	End Location(ft.%)
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Member Distributed Loads (BLC 65 : Structure Wm (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft...]	Start Location[ft.%]	End Location[ft.%]
1	FACE	X	0	0	0	%100
2	FACE	Z	-.606	-.606	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-.606	-.606	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	-.239	-.239	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	-.239	-.239	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	-.239	-.239	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	-.239	-.239	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	-.132	-.132	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	-.132	-.132	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	-.132	-.132	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-.132	-.132	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-.136	-.136	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-.136	-.136	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-.136	-.136	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-.136	-.136	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	-.5	-.5	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	-.5	-.5	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	-.5	-.5	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	-.5	-.5	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	-.132	-.132	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	-.132	-.132	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	-.132	-.132	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	-.132	-.132	0	%100
53	M43	X	0	0	0	%100
54	M43	Z	-.000153	-.000153	0	%100
55	M44A	X	0	0	0	%100
56	M44A	Z	-.137	-.137	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft...]	Start Location[ft.%]	End Location[ft.%]
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Member Distributed Loads (BLC 66 : Structure Wm (30 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	FACE	X	.227	.227	0	%100
2	FACE	Z	-.393	-.393	0	%100
3	M2	X	.227	.227	0	%100
4	M2	Z	-.393	-.393	0	%100
5	M13	X	.016	.016	0	%100
6	M13	Z	-.029	-.029	0	%100
7	M14	X	.016	.016	0	%100
8	M14	Z	-.029	-.029	0	%100
9	M15	X	.016	.016	0	%100
10	M15	Z	-.029	-.029	0	%100
11	M16	X	.016	.016	0	%100
12	M16	Z	-.029	-.029	0	%100
13	M17	X	.027	.027	0	%100
14	M17	Z	-.047	-.047	0	%100
15	M18	X	.027	.027	0	%100
16	M18	Z	-.047	-.047	0	%100
17	M19	X	.189	.189	0	%100
18	M19	Z	-.328	-.328	0	%100
19	M20	X	.189	.189	0	%100
20	M20	Z	-.328	-.328	0	%100
21	M21	X	.049	.049	0	%100
22	M21	Z	-.086	-.086	0	%100
23	M22	X	.049	.049	0	%100
24	M22	Z	-.086	-.086	0	%100
25	M23	X	.049	.049	0	%100
26	M23	Z	-.086	-.086	0	%100
27	M24	X	.049	.049	0	%100
28	M24	Z	-.086	-.086	0	%100
29	M25	X	.055	.055	0	%100
30	M25	Z	-.094	-.094	0	%100
31	M26	X	.055	.055	0	%100
32	M26	Z	-.094	-.094	0	%100
33	M27	X	.078	.078	0	%100
34	M27	Z	-.136	-.136	0	%100
35	M28	X	.078	.078	0	%100
36	M28	Z	-.136	-.136	0	%100
37	MP4A	X	.25	.25	0	%100
38	MP4A	Z	-.433	-.433	0	%100
39	MP3A	X	.25	.25	0	%100
40	MP3A	Z	-.433	-.433	0	%100
41	MP2A	X	.25	.25	0	%100
42	MP2A	Z	-.433	-.433	0	%100
43	MP1A	X	.25	.25	0	%100
44	MP1A	Z	-.433	-.433	0	%100
45	M44	X	.066	.066	0	%100
46	M44	Z	-.114	-.114	0	%100
47	M45	X	.066	.066	0	%100
48	M45	Z	-.114	-.114	0	%100
49	M46	X	.066	.066	0	%100
50	M46	Z	-.114	-.114	0	%100
51	M47	X	.066	.066	0	%100
52	M47	Z	-.114	-.114	0	%100
53	M43	X	.072	.072	0	%100
54	M43	Z	-.124	-.124	0	%100
55	M44A	X	.00023	.00023	0	%100
56	M44A	Z	-.000398	-.000398	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft]	End Magnitude[lb/ft]	Start Location[ft.%]	End Location[ft.%]
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Member Distributed Loads (BLC 67 : Structure Wm (60 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location(ft.%)	End Location(ft.%)
1	FACE	X	.131	.131	0 %100
2	FACE	Z	-.076	-.076	0 %100
3	M2	X	.131	.131	0 %100
4	M2	Z	-.076	-.076	0 %100
5	M13	X	.086	.086	0 %100
6	M13	Z	-.049	-.049	0 %100
7	M14	X	.086	.086	0 %100
8	M14	Z	-.049	-.049	0 %100
9	M15	X	.086	.086	0 %100
10	M15	Z	-.049	-.049	0 %100
11	M16	X	.086	.086	0 %100
12	M16	Z	-.049	-.049	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	.287	.287	0 %100
18	M19	Z	-.166	-.166	0 %100
19	M20	X	.287	.287	0 %100
20	M20	Z	-.166	-.166	0 %100
21	M21	X	.029	.029	0 %100
22	M21	Z	-.016	-.016	0 %100
23	M22	X	.029	.029	0 %100
24	M22	Z	-.016	-.016	0 %100
25	M23	X	.029	.029	0 %100
26	M23	Z	-.016	-.016	0 %100
27	M24	X	.029	.029	0 %100
28	M24	Z	-.016	-.016	0 %100
29	M25	X	.089	.089	0 %100
30	M25	Z	-.051	-.051	0 %100
31	M26	X	.089	.089	0 %100
32	M26	Z	-.051	-.051	0 %100
33	M27	X	.13	.13	0 %100
34	M27	Z	-.075	-.075	0 %100
35	M28	X	.13	.13	0 %100
36	M28	Z	-.075	-.075	0 %100
37	MP4A	X	.433	.433	0 %100
38	MP4A	Z	-.25	-.25	0 %100
39	MP3A	X	.433	.433	0 %100
40	MP3A	Z	-.25	-.25	0 %100
41	MP2A	X	.433	.433	0 %100
42	MP2A	Z	-.25	-.25	0 %100
43	MP1A	X	.433	.433	0 %100
44	MP1A	Z	-.25	-.25	0 %100
45	M44	X	.114	.114	0 %100
46	M44	Z	-.066	-.066	0 %100
47	M45	X	.114	.114	0 %100
48	M45	Z	-.066	-.066	0 %100
49	M46	X	.114	.114	0 %100
50	M46	Z	-.066	-.066	0 %100
51	M47	X	.114	.114	0 %100
52	M47	Z	-.066	-.066	0 %100
53	M43	X	.386	.386	0 %100
54	M43	Z	-.223	-.223	0 %100
55	M44A	X	.144	.144	0 %100
56	M44A	Z	-.083	-.083	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location(ft.%)	End Location(ft.%)
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Member Distributed Loads (BLC 68 : Structure Wm (90 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	FACE	X	0	0	%100
2	FACE	Z	0	0	%100
3	M2	X	0	0	%100
4	M2	Z	0	0	%100
5	M13	X	.132	.132	%100
6	M13	Z	0	0	%100
7	M14	X	.132	.132	%100
8	M14	Z	0	0	%100
9	M15	X	.132	.132	%100
10	M15	Z	0	0	%100
11	M16	X	.132	.132	%100
12	M16	Z	0	0	%100
13	M17	X	.147	.147	%100
14	M17	Z	0	0	%100
15	M18	X	.147	.147	%100
16	M18	Z	0	0	%100
17	M19	X	.147	.147	%100
18	M19	Z	0	0	%100
19	M20	X	.147	.147	%100
20	M20	Z	0	0	%100
21	M21	X	0	0	%100
22	M21	Z	0	0	%100
23	M22	X	0	0	%100
24	M22	Z	0	0	%100
25	M23	X	0	0	%100
26	M23	Z	0	0	%100
27	M24	X	0	0	%100
28	M24	Z	0	0	%100
29	M25	X	.123	.123	%100
30	M25	Z	0	0	%100
31	M26	X	.123	.123	%100
32	M26	Z	0	0	%100
33	M27	X	.123	.123	%100
34	M27	Z	0	0	%100
35	M28	X	.123	.123	%100
36	M28	Z	0	0	%100
37	MP4A	X	.5	.5	%100
38	MP4A	Z	0	0	%100
39	MP3A	X	.5	.5	%100
40	MP3A	Z	0	0	%100
41	MP2A	X	.5	.5	%100
42	MP2A	Z	0	0	%100
43	MP1A	X	.5	.5	%100
44	MP1A	Z	0	0	%100
45	M44	X	.132	.132	%100
46	M44	Z	0	0	%100
47	M45	X	.132	.132	%100
48	M45	Z	0	0	%100
49	M46	X	.132	.132	%100
50	M46	Z	0	0	%100
51	M47	X	.132	.132	%100
52	M47	Z	0	0	%100
53	M43	X	.606	.606	%100
54	M43	Z	0	0	%100
55	M44A	X	.468	.468	%100
56	M44A	Z	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft.	End Magnitude[lb/ft.	Start Location[ft.%]	End Location[ft.%]
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Member Distributed Loads (BLC 69 : Structure Wm (120 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	FACE	X	.131	.131	0	%100
2	FACE	Z	.076	.076	0	%100
3	M2	X	.131	.131	0	%100
4	M2	Z	.076	.076	0	%100
5	M13	X	.086	.086	0	%100
6	M13	Z	.049	.049	0	%100
7	M14	X	.086	.086	0	%100
8	M14	Z	.049	.049	0	%100
9	M15	X	.086	.086	0	%100
10	M15	Z	.049	.049	0	%100
11	M16	X	.086	.086	0	%100
12	M16	Z	.049	.049	0	%100
13	M17	X	.287	.287	0	%100
14	M17	Z	.166	.166	0	%100
15	M18	X	.287	.287	0	%100
16	M18	Z	.166	.166	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	.029	.029	0	%100
22	M21	Z	.016	.016	0	%100
23	M22	X	.029	.029	0	%100
24	M22	Z	.016	.016	0	%100
25	M23	X	.029	.029	0	%100
26	M23	Z	.016	.016	0	%100
27	M24	X	.029	.029	0	%100
28	M24	Z	.016	.016	0	%100
29	M25	X	.13	.13	0	%100
30	M25	Z	.075	.075	0	%100
31	M26	X	.13	.13	0	%100
32	M26	Z	.075	.075	0	%100
33	M27	X	.089	.089	0	%100
34	M27	Z	.051	.051	0	%100
35	M28	X	.089	.089	0	%100
36	M28	Z	.051	.051	0	%100
37	MP4A	X	.433	.433	0	%100
38	MP4A	Z	.25	.25	0	%100
39	MP3A	X	.433	.433	0	%100
40	MP3A	Z	.25	.25	0	%100
41	MP2A	X	.433	.433	0	%100
42	MP2A	Z	.25	.25	0	%100
43	MP1A	X	.433	.433	0	%100
44	MP1A	Z	.25	.25	0	%100
45	M44	X	.114	.114	0	%100
46	M44	Z	.066	.066	0	%100
47	M45	X	.114	.114	0	%100
48	M45	Z	.066	.066	0	%100
49	M46	X	.114	.114	0	%100
50	M46	Z	.066	.066	0	%100
51	M47	X	.114	.114	0	%100
52	M47	Z	.066	.066	0	%100
53	M43	X	.401	.401	0	%100
54	M43	Z	.231	.231	0	%100
55	M44A	X	.524	.524	0	%100
56	M44A	Z	.303	.303	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft	End Magnitude[lb/ft	Start Location[ft.%]	End Location[ft.%]
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Member Distributed Loads (BLC 70 : Structure Wm (150 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	FACE	X	.227	.227	0 %100
2	FACE	Z	.393	.393	0 %100
3	M2	X	.227	.227	0 %100
4	M2	Z	.393	.393	0 %100
5	M13	X	.016	.016	0 %100
6	M13	Z	.029	.029	0 %100
7	M14	X	.016	.016	0 %100
8	M14	Z	.029	.029	0 %100
9	M15	X	.016	.016	0 %100
10	M15	Z	.029	.029	0 %100
11	M16	X	.016	.016	0 %100
12	M16	Z	.029	.029	0 %100
13	M17	X	.189	.189	0 %100
14	M17	Z	.328	.328	0 %100
15	M18	X	.189	.189	0 %100
16	M18	Z	.328	.328	0 %100
17	M19	X	.027	.027	0 %100
18	M19	Z	.047	.047	0 %100
19	M20	X	.027	.027	0 %100
20	M20	Z	.047	.047	0 %100
21	M21	X	.049	.049	0 %100
22	M21	Z	.086	.086	0 %100
23	M22	X	.049	.049	0 %100
24	M22	Z	.086	.086	0 %100
25	M23	X	.049	.049	0 %100
26	M23	Z	.086	.086	0 %100
27	M24	X	.049	.049	0 %100
28	M24	Z	.086	.086	0 %100
29	M25	X	.078	.078	0 %100
30	M25	Z	.136	.136	0 %100
31	M26	X	.078	.078	0 %100
32	M26	Z	.136	.136	0 %100
33	M27	X	.055	.055	0 %100
34	M27	Z	.094	.094	0 %100
35	M28	X	.055	.055	0 %100
36	M28	Z	.094	.094	0 %100
37	MP4A	X	.25	.25	0 %100
38	MP4A	Z	.433	.433	0 %100
39	MP3A	X	.25	.25	0 %100
40	MP3A	Z	.433	.433	0 %100
41	MP2A	X	.25	.25	0 %100
42	MP2A	Z	.433	.433	0 %100
43	MP1A	X	.25	.25	0 %100
44	MP1A	Z	.433	.433	0 %100
45	M44	X	.066	.066	0 %100
46	M44	Z	.114	.114	0 %100
47	M45	X	.066	.066	0 %100
48	M45	Z	.114	.114	0 %100
49	M46	X	.066	.066	0 %100
50	M46	Z	.114	.114	0 %100
51	M47	X	.066	.066	0 %100
52	M47	Z	.114	.114	0 %100
53	M43	X	.08	.08	0 %100
54	M43	Z	.138	.138	0 %100
55	M44A	X	.22	.22	0 %100
56	M44A	Z	.381	.381	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft	End Magnitude[lb/ft	Start Location[ft.%]	End Location[ft.%]
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Company :
 Designer :
 Job Number :
 Model Name :

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	FACE	X	0	0	0	%100
2	FACE	Z	.606	.606	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	.606	.606	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	.239	.239	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	.239	.239	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	.239	.239	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	.239	.239	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	.132	.132	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	.132	.132	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	.132	.132	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	.132	.132	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	.136	.136	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	.136	.136	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	.136	.136	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	.136	.136	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	.5	.5	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	.5	.5	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	.5	.5	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	.5	.5	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	.132	.132	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	.132	.132	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	.132	.132	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	.132	.132	0	%100
53	M43	X	0	0	0	%100
54	M43	Z	.000153	.000153	0	%100
55	M44A	X	0	0	0	%100
56	M44A	Z	.137	.137	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
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Company :
 Designer :
 Job Number :
 Model Name :

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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	FACE	X	-.131	-.131	0 %100
2	FACE	Z	.076	.076	0 %100
3	M2	X	-.131	-.131	0 %100
4	M2	Z	.076	.076	0 %100
5	M13	X	-.086	-.086	0 %100
6	M13	Z	.049	.049	0 %100
7	M14	X	-.086	-.086	0 %100
8	M14	Z	.049	.049	0 %100
9	M15	X	-.086	-.086	0 %100
10	M15	Z	.049	.049	0 %100
11	M16	X	-.086	-.086	0 %100
12	M16	Z	.049	.049	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	-.287	-.287	0 %100
18	M19	Z	.166	.166	0 %100
19	M20	X	-.287	-.287	0 %100
20	M20	Z	.166	.166	0 %100
21	M21	X	-.029	-.029	0 %100
22	M21	Z	.016	.016	0 %100
23	M22	X	-.029	-.029	0 %100
24	M22	Z	.016	.016	0 %100
25	M23	X	-.029	-.029	0 %100
26	M23	Z	.016	.016	0 %100
27	M24	X	-.029	-.029	0 %100
28	M24	Z	.016	.016	0 %100
29	M25	X	-.089	-.089	0 %100
30	M25	Z	.051	.051	0 %100
31	M26	X	-.089	-.089	0 %100
32	M26	Z	.051	.051	0 %100
33	M27	X	-.13	-.13	0 %100
34	M27	Z	.075	.075	0 %100
35	M28	X	-.13	-.13	0 %100
36	M28	Z	.075	.075	0 %100
37	MP4A	X	-.433	-.433	0 %100
38	MP4A	Z	.25	.25	0 %100
39	MP3A	X	-.433	-.433	0 %100
40	MP3A	Z	.25	.25	0 %100
41	MP2A	X	-.433	-.433	0 %100
42	MP2A	Z	.25	.25	0 %100
43	MP1A	X	-.433	-.433	0 %100
44	MP1A	Z	.25	.25	0 %100
45	M44	X	-.114	-.114	0 %100
46	M44	Z	.066	.066	0 %100
47	M45	X	-.114	-.114	0 %100
48	M45	Z	.066	.066	0 %100
49	M46	X	-.114	-.114	0 %100
50	M46	Z	.066	.066	0 %100
51	M47	X	-.114	-.114	0 %100
52	M47	Z	.066	.066	0 %100
53	M43	X	-.386	-.386	0 %100
54	M43	Z	.223	.223	0 %100
55	M44A	X	-.144	-.144	0 %100
56	M44A	Z	.083	.083	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.	End Magnitude[lb/ft.	Start Location[ft.%]	End Location[ft.%]
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Company :
 Designer :
 Job Number :
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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.%]
1	FACE	X	0	0	%100
2	FACE	Z	0	0	%100
3	M2	X	0	0	%100
4	M2	Z	0	0	%100
5	M13	X	-132	-132	0
6	M13	Z	0	0	%100
7	M14	X	-132	-132	0
8	M14	Z	0	0	%100
9	M15	X	-132	-132	0
10	M15	Z	0	0	%100
11	M16	X	-132	-132	0
12	M16	Z	0	0	%100
13	M17	X	-147	-147	0
14	M17	Z	0	0	%100
15	M18	X	-147	-147	0
16	M18	Z	0	0	%100
17	M19	X	-147	-147	0
18	M19	Z	0	0	%100
19	M20	X	-147	-147	0
20	M20	Z	0	0	%100
21	M21	X	0	0	%100
22	M21	Z	0	0	%100
23	M22	X	0	0	%100
24	M22	Z	0	0	%100
25	M23	X	0	0	%100
26	M23	Z	0	0	%100
27	M24	X	0	0	%100
28	M24	Z	0	0	%100
29	M25	X	-123	-123	0
30	M25	Z	0	0	%100
31	M26	X	-123	-123	0
32	M26	Z	0	0	%100
33	M27	X	-123	-123	0
34	M27	Z	0	0	%100
35	M28	X	-123	-123	0
36	M28	Z	0	0	%100
37	MP4A	X	-5	-5	0
38	MP4A	Z	0	0	%100
39	MP3A	X	-5	-5	0
40	MP3A	Z	0	0	%100
41	MP2A	X	-5	-5	0
42	MP2A	Z	0	0	%100
43	MP1A	X	-5	-5	0
44	MP1A	Z	0	0	%100
45	M44	X	-132	-132	0
46	M44	Z	0	0	%100
47	M45	X	-132	-132	0
48	M45	Z	0	0	%100
49	M46	X	-132	-132	0
50	M46	Z	0	0	%100
51	M47	X	-132	-132	0
52	M47	Z	0	0	%100
53	M43	X	-606	-606	0
54	M43	Z	0	0	%100
55	M44A	X	-468	-468	0
56	M44A	Z	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft...]	Start Location[ft.%]	End Location[ft.%]
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Company :
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Member Distributed Loads (BLC 75 : Structure Wm (300 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	FACE	X	-131	-131	0 %100
2	FACE	Z	-076	-076	0 %100
3	M2	X	-131	-131	0 %100
4	M2	Z	-076	-076	0 %100
5	M13	X	-086	-086	0 %100
6	M13	Z	-049	-049	0 %100
7	M14	X	-086	-086	0 %100
8	M14	Z	-049	-049	0 %100
9	M15	X	-086	-086	0 %100
10	M15	Z	-049	-049	0 %100
11	M16	X	-086	-086	0 %100
12	M16	Z	-049	-049	0 %100
13	M17	X	-287	-287	0 %100
14	M17	Z	-166	-166	0 %100
15	M18	X	-287	-287	0 %100
16	M18	Z	-166	-166	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	-029	-029	0 %100
22	M21	Z	-016	-016	0 %100
23	M22	X	-029	-029	0 %100
24	M22	Z	-016	-016	0 %100
25	M23	X	-029	-029	0 %100
26	M23	Z	-016	-016	0 %100
27	M24	X	-029	-029	0 %100
28	M24	Z	-016	-016	0 %100
29	M25	X	-13	-13	0 %100
30	M25	Z	-075	-075	0 %100
31	M26	X	-13	-13	0 %100
32	M26	Z	-075	-075	0 %100
33	M27	X	-089	-089	0 %100
34	M27	Z	-051	-051	0 %100
35	M28	X	-089	-089	0 %100
36	M28	Z	-051	-051	0 %100
37	MP4A	X	-433	-433	0 %100
38	MP4A	Z	-25	-25	0 %100
39	MP3A	X	-433	-433	0 %100
40	MP3A	Z	-25	-25	0 %100
41	MP2A	X	-433	-433	0 %100
42	MP2A	Z	-25	-25	0 %100
43	MP1A	X	-433	-433	0 %100
44	MP1A	Z	-25	-25	0 %100
45	M44	X	-114	-114	0 %100
46	M44	Z	-066	-066	0 %100
47	M45	X	-114	-114	0 %100
48	M45	Z	-066	-066	0 %100
49	M46	X	-114	-114	0 %100
50	M46	Z	-066	-066	0 %100
51	M47	X	-114	-114	0 %100
52	M47	Z	-066	-066	0 %100
53	M43	X	-401	-401	0 %100
54	M43	Z	-231	-231	0 %100
55	M44A	X	-524	-524	0 %100
56	M44A	Z	-303	-303	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft	End Magnitude[lb/ft	Start Location[ft.%]	End Location[ft.%]
RISA-3D Version 17.0.4 [.....Risa\5000386085-VZW_MT_LOT_A_H.r3d] Page 69					

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

Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft.%]	End Location[ft.%]
1	FACE	X	-0.227	-0.227	0 %100
2	FACE	Z	-0.393	-0.393	0 %100
3	M2	X	-0.227	-0.227	0 %100
4	M2	Z	-0.393	-0.393	0 %100
5	M13	X	-0.016	-0.016	0 %100
6	M13	Z	-0.029	-0.029	0 %100
7	M14	X	-0.016	-0.016	0 %100
8	M14	Z	-0.029	-0.029	0 %100
9	M15	X	-0.016	-0.016	0 %100
10	M15	Z	-0.029	-0.029	0 %100
11	M16	X	-0.016	-0.016	0 %100
12	M16	Z	-0.029	-0.029	0 %100
13	M17	X	-0.189	-0.189	0 %100
14	M17	Z	-0.328	-0.328	0 %100
15	M18	X	-0.189	-0.189	0 %100
16	M18	Z	-0.328	-0.328	0 %100
17	M19	X	-0.027	-0.027	0 %100
18	M19	Z	-0.047	-0.047	0 %100
19	M20	X	-0.027	-0.027	0 %100
20	M20	Z	-0.047	-0.047	0 %100
21	M21	X	-0.049	-0.049	0 %100
22	M21	Z	-0.086	-0.086	0 %100
23	M22	X	-0.049	-0.049	0 %100
24	M22	Z	-0.086	-0.086	0 %100
25	M23	X	-0.049	-0.049	0 %100
26	M23	Z	-0.086	-0.086	0 %100
27	M24	X	-0.049	-0.049	0 %100
28	M24	Z	-0.086	-0.086	0 %100
29	M25	X	-0.078	-0.078	0 %100
30	M25	Z	-0.136	-0.136	0 %100
31	M26	X	-0.078	-0.078	0 %100
32	M26	Z	-0.136	-0.136	0 %100
33	M27	X	-0.055	-0.055	0 %100
34	M27	Z	-0.094	-0.094	0 %100
35	M28	X	-0.055	-0.055	0 %100
36	M28	Z	-0.094	-0.094	0 %100
37	MP4A	X	-0.25	-0.25	0 %100
38	MP4A	Z	-0.433	-0.433	0 %100
39	MP3A	X	-0.25	-0.25	0 %100
40	MP3A	Z	-0.433	-0.433	0 %100
41	MP2A	X	-0.25	-0.25	0 %100
42	MP2A	Z	-0.433	-0.433	0 %100
43	MP1A	X	-0.25	-0.25	0 %100
44	MP1A	Z	-0.433	-0.433	0 %100
45	M44	X	-0.066	-0.066	0 %100
46	M44	Z	-0.114	-0.114	0 %100
47	M45	X	-0.066	-0.066	0 %100
48	M45	Z	-0.114	-0.114	0 %100
49	M46	X	-0.066	-0.066	0 %100
50	M46	Z	-0.114	-0.114	0 %100
51	M47	X	-0.066	-0.066	0 %100
52	M47	Z	-0.114	-0.114	0 %100
53	M43	X	-0.08	-0.08	0 %100
54	M43	Z	-0.138	-0.138	0 %100
55	M44A	X	-0.22	-0.22	0 %100
56	M44A	Z	-0.381	-0.381	0 %100



Company :
 Designer :
 Job Number :
 Model Name :

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Member Area Loads

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

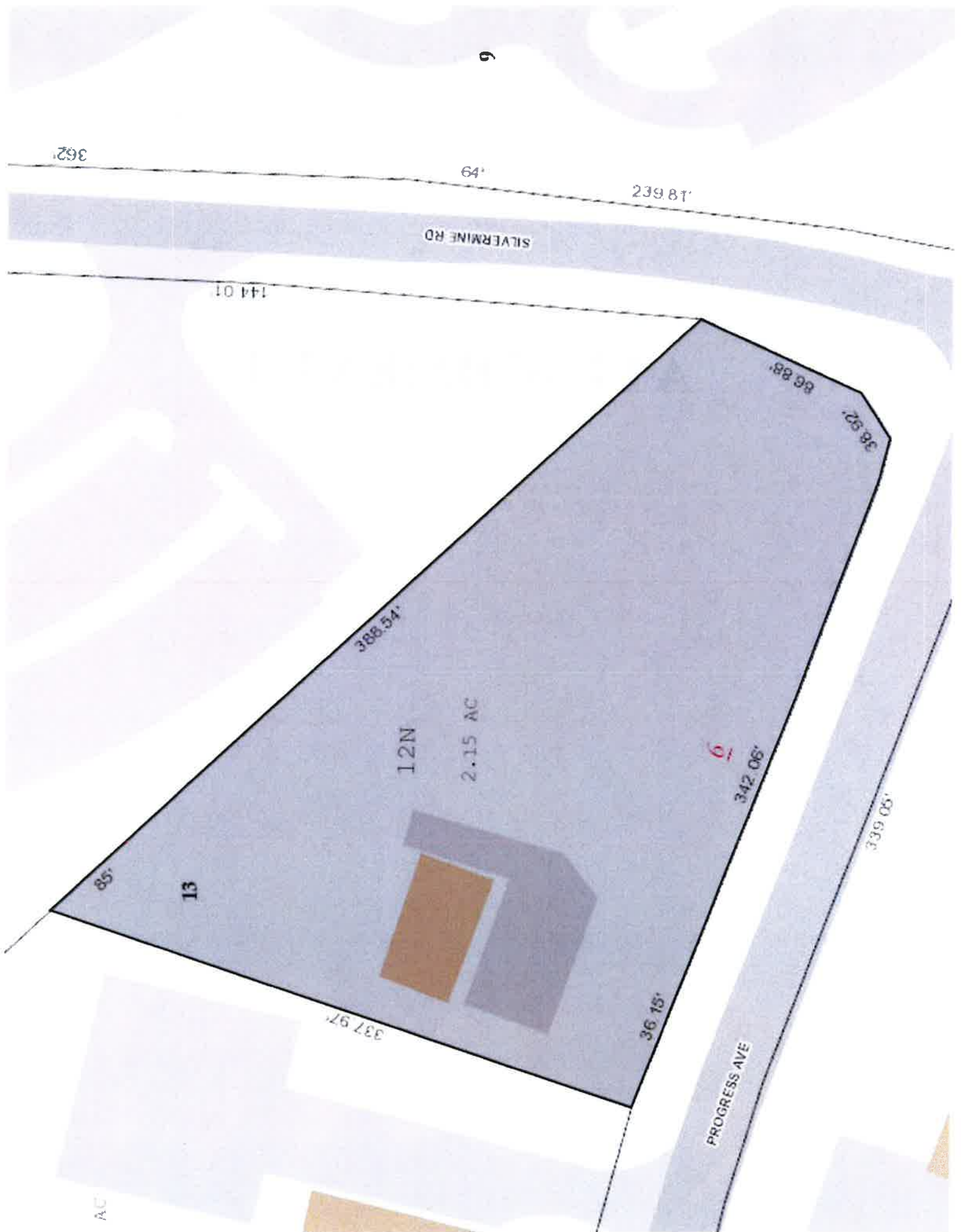
Envelope Joint Reactions

Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC	
1	N35	max	1407.893	46	1197.657	13	1573.762	13	-.236	70	0	75	.292	46
2		min	-451.79	49	351.619	70	-251.36	7	-.817	13	0	1	-.098	49
3	N36	max	684.37	11	1202.763	19	599.568	7	-.236	65	0	75	.285	46
4		min	-1443.094	41	352.229	64	-1564.879	1	-.809	19	0	1	-.097	49
5	N63	max	82.401	10	112.537	18	1250.176	12	0	75	0	75	0	75
6		min	-80.713	4	43.076	75	-1358.342	6	0	1	0	1	0	1
7	N64	max	537.435	8	82.978	20	921.182	2	0	75	0	75	0	75
8		min	-498.543	2	31.735	66	-993.08	8	0	1	0	1	0	1
9	Totals:	max	1733.611	10	2573.671	18	1696.197	1						
10		min	-1733.611	4	782.251	74	-1696.197	7						

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

Member	Shape	Code	Loc[ft]	LC	Shear	Loc[ft]	Dir	LC	phi*Pnc	phi*Pnt	phi*Mn y	phi*Mn z	Cb	Eqn	
1	FACE	PIPE 2.5	.271	8.724	48	.087	8.724	29	14558.792	50715	3.596	3.596	2	H1-1b	
2	M2	PIPE 2.5	.253	8.724	44	.090	3.255	6	14558.792	50715	3.596	3.596	2	H1-1b	
3	M13	PL5/8X3.5	.167	.422	12	.226	.374	y	6	66184.77	68906.25	.897	5.024	1	H1-1b
4	M14	PL5/8X3.5	.138	0	49	.096	.422	y	2	66184.77	68906.25	.897	5.024	1	H1-1b
5	M15	PL5/8X3.5	.279	0	46	.127	.422	y	12	66184.77	68906.25	.897	5.024	1	H1-1b
6	M16	PL5/8X3.5	.209	0	46	.150	.422	y	3	66184.77	68906.25	.897	5.024	1	H1-1b
7	M17	PIPE 2.0	.218	0	6	.062	0	6	31128.25	32130	1.872	1.872	1	H1-1b	
8	M18	PIPE 2.0	.093	0	2	.051	0	14	31128.25	32130	1.872	1.872	1	H1-1b	
9	M19	PIPE 2.0	.124	0	12	.087	0	48	31128.25	32130	1.872	1.872	1	H1-1b	
10	M20	PIPE 2.0	.158	0	3	.073	0	47	31128.25	32130	1.872	1.872	2	H1-1b	
11	M21	PL5/8X3.5	.233	.531	49	.076	0	y	12	67591.76	68906.25	.897	5.024	1	H1-1b
12	M22	PL5/8X3.5	.453	.531	37	.064	.443	y	40	67591.76	68906.25	.897	5.024	1	H1-1b
13	M23	PL5/8X3.5	.251	.531	15	.058	.531	y	1	67591.76	68906.25	.897	5.024	1	H1-1b
14	M24	PL5/8X3.5	.469	.531	47	.068	.531	y	1	67591.76	68906.25	.897	5.024	1	H1-1b
15	M25	SR 0.75	.001	4.167	46	.010	4.167	5	2863.936	13916.259	.174	.174	1	H1-1b*	
16	M26	SR 0.75	.047	0	15	.013	0	3	2863.936	13916.259	.174	.174	1	H1-1b*	
17	M27	SR 0.75	.000	0	75	.015	0	45	2863.936	13916.259	.174	.174	1	H1-1a	
18	M28	SR 0.75	.086	4.167	45	.020	4.167	47	2863.936	13916.259	.174	.174	1	H1-1b*	
19	MP4A	PIPE 2.0	.228	5.667	49	.060	2.333	8	14916.096	32130	1.872	1.872	4	H1-1b	
20	MP3A	PIPE 2.0	.184	2.333	46	.071	2.333	11	14916.096	32130	1.872	1.872	4	H1-1b	
21	MP2A	PIPE 2.0	.161	2.333	4	.071	2.333	9	14916.096	32130	1.872	1.872	4	H1-1b	
22	MP1A	PIPE 2.0	.396	5.667	40	.060	2.333	2	14916.096	32130	1.872	1.872	4	H1-1b	
23	M44	SR 0.625	.041	1.667	1	.012	0	2	2158.269	9664.074	.101	.101	1	H1-1b	
24	M45	SR 0.625	.036	1.667	11	.019	0	47	2158.269	9664.074	.101	.101	1	H1-1b	
25	M46	SR 0.625	.037	1.667	5	.016	0	10	2158.269	9664.074	.101	.101	1	H1-1b	
26	M47	SR 0.625	.043	1.667	2	.010	0	47	2158.269	9664.074	.101	.101	1	H1-1b	
27	M43	PIPE 2.5	.185	18.343	12	.008	0	22	6761.18	50715	3.596	3.596	1	H1-1b*	
28	M44A	PIPE 2.5	.086	6.757	4	.006	13.514	23	12455.959	50715	3.596	3.596	1	H1-1b	

ATTACHMENT 4



6

362'

69'

1862'

SILVERMINE RD

144 01'

86 88'

38 92'

388 54'

12N

2.15 AC

6

342 06'

85'

13

339 05'

36 15'

PROGRESS AVE

337 97'

AC



Property Information

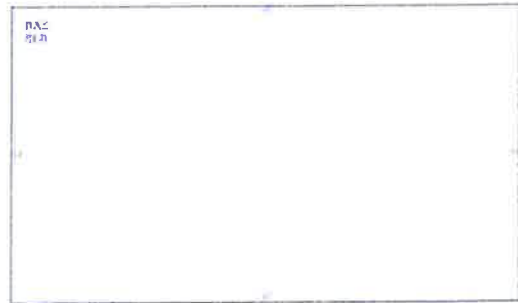
Property Location	6 PROGRESS AVE
Owner	EDMAC LLC
Co-Owner	
Mailing Address	2702 FOREST VIEW LANE KISSIMEE FL 34744
Land Use	4330 RAD/TV TR
Land Class	I
Zoning Code	GI-2
Census Tract	

Neighborhood	D
Acreage	2.15
Utilities	
Lot Setting/Desc	Level
Book / Page	285/679
Additional Info	

Photo



Sketch



Primary Construction Details

Year Built	2001
Building Desc.	RAD/TV TR
Building Style	Com Garage
Building Grade	Average
Stories	1
Occupancy	1.00
Exterior Walls	Concr/Cinder
Exterior Walls 2	NA
Roof Style	Flat
Roof Cover	Rolled Compos
Interior Walls	Minim/Masonry
Interior Walls 2	NA
Interior Floors 1	Precast Concr
Interior Floors 2	NA

Heating Fuel	Gas
Heating Type	Hot Air-no Duc
AC Type	Central
Bedrooms	0
Full Bathrooms	0
Half Bathrooms	0
Extra Fixtures	0
Total Rooms	
Bath Style	NA
Kitchen Style	NA
Rec Rm Area	NA
Rec Rm Quality	NA
Bsmt Gar	NA
Fireplaces	NA

(*Industrial / Commercial Details)

Building Use	Comm/Ind
Building Condition	A
Sprinkler %	NA
Heat / AC	Heat /AC Split
Frame Type	Masonry
Baths / Plumbing	None
Ceiling / Wall	None
Rooms / Prtns	Light
Wall Height	16.00
First Floor Use	4330
Foundation	NA

ATTACHMENT 5

Certificate of Mailing — Firm



Name and Address of Sender	TOTAL NO. of Pieces Listed by Sender	TOTAL NO. of Pieces Received at Post Office™	Affix Stamp Here Postmark with Date of Receipt.
Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	Postmaster, per (name of receiving employee)		
USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee
1.	Anmarie Dragonis, First Selectwoman Town of Seymour 1 First Street Seymour, CT 06483		
2.	Keith Rosenfeld, Town Planner Town of Seymour 1 First Street Seymour, CT 06483		
3.	EDMAC LLC 2702 Forest View Lane Kissimmee, FL 34744		
4.			
5.			
6.			