

October 11, 2019

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
227 Boombridge Road, North Stonington, Connecticut**

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains nine (9) antennas at the 136-foot level of the existing 180-foot tower at 227 Boombridge Road in North Stonington, Connecticut (the “Property”). The tower is owned by Wireless Solutions. The Property is owned by David Babcock Lewis, LLC. According to a June 11, 2018 filing by Sprint (EM-SPRINT-102-180615), the tower was approved by the Town of North Stonington Zoning Official and Building Official in 1997 (Building Permit No. 97-012).

The Council approved Cellco’s use of this tower in 2003. Cellco now intends to modify its facility by removing three (3) antennas and replacing them with six (6) newer model antennas for a total of twelve (12) antennas; and installing six (6) new remote radio heads (“RRHs”) and two (2) HYBRIFLEX™ fiber optic antenna cables. The existing antenna mounts will also be replaced as a part of these modifications. Included in Attachment 1 are specifications for Cellco’s replacement antennas, RRHs and HYBRIFLEX™ cables.

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 North Stonington First Selectman, Michael A. Urgo; Juliet Hodge, North Stonington Planning, Development and Zoning Official; David Babcock Lewis, LLC, the owner of the Property; and Wireless Solutions, the tower owner.

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

19903665-v1

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1. The proposed modifications will not result in an increase in the height of the existing tower. Cellco's new antennas and RRHs will be installed at a centerline height of 136 feet on the 180-foot tower.

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 six (6) new antennas and six (6) RRHs will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A worst-case radio frequency table for Cellco's modified facility is included in Attachment 2.

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

6. The tower and its foundation can support Cellco's proposed modifications. (*See* Structural Certification Letter, Structural Assessment Report, and Mount Analysis Report included in Attachment 3).

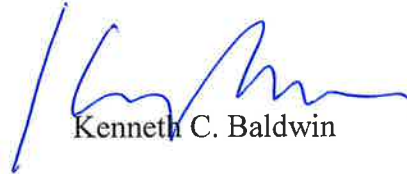
A copy of the parcel map and Property owner information is included in Attachment 4. A Certificate of Mailing verifying that this filing was sent to municipal officials and the Property owner is included in Attachment 5.

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).

Robinson+Cole

Melanie A. Bachman, Esq.
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Sincerely,



Kenneth C. Baldwin

Enclosures

Copy to:

Michael A. Urgo, North Stonington First Selectman
Juliet Hodge, North Stonington Planning, Development and Zoning Official
David Babcock Lewis, LLC
Wireless Solutions
Tim Parks

ATTACHMENT 1



- Provides 6 antenna Ports in a slim-line form factor
- Independent 700 & 850 Tilt for use with **dual band radios**
- Optimized Azimuth patterns for Min Inter-Sector Interference

- 700, 850, PCS, AWS & WCS bands in one antenna
- AISG & 3GPP compliant internal (RET) with Smart Bias T
- Industry leading Minimal Wind-Load design

The Quintel MultiServ™ Multiband 6 Port Antenna with patented QTilt™ technology uniquely delivers three independent services in a single slim-line antenna. This antenna allows for the use of **dual band radios** with 700 and 850 on a single pair of lowband ports while offering independent tilt between the 700 and 850 bands. This enables existing antenna network sites to be upgraded constraint free to add new services such as LTE for 700, 850, PCS, AWS and WCS bands with the replacement of one antenna. The QS6656-5D also provides 4x1695-2400MHz ports as two side-by-side (CLA-2X) arrays for connection to 2T4R/4T4R services.

Electrical Characteristics	2x Ports 1&2		4x Ports 3-6			
	698-806	824-894	1695-2400			
Operating Frequency (MHz)	698-806	824-894	1695-1780	1850-1990	2110-2180	2300-2400
Azimuth beamwidth ¹	67°	64°	67°	63°	60°	59°
Elevation beamwidth ¹	12.1°	10.6°	6.2°	5.9°	5.2°	4.8°
Gain ¹ (dBi)	12.5	13.4	17	17.1	17.8	18.0
Polarization	±45°		2x ±45°			
Electrical down-tilt range	2°-10°	2°-10°	0° – 8°			
Upper SLL (20° > mainbeam) ¹	-17dB	-17dB	-16dB	-18dB	-17dB	-16dB
Front to Back Ratio(180°±10°) ¹	≥25dB	≥25dB	≥25dB	≥25dB	≥28dB	≥30dB
Port to Port isolation ¹	≥25dB	≥25dB	≥30dB	≥30dB	≥30dB	≥30dB
Return loss (VSWR)	14dB(1.5)	14dB(1.5)	14dB(1.5)	14dB(1.5)	14dB (1.5)	14dB(1.5)
X Polar Discrimination (at 0°) ¹	>16dB	>16dB	>19dB	>19dB	>19dB	>19dB
Max Power handling (per any port)	250 watts		250 watts			
PIM (3 rd Order) (2x43dBm)	>153dBc		>153dBc			
X Band PIM (3 rd Order) (2x43dBm)	>159dBc		>159dBc			

¹ Typical Performance across frequency and Downtilt.



Mechanical Characteristics	
Dimensions	L 72"(1828mm) x W 12"(304mm) x D 9.6"(245mm)
Weight (excl mounting brackets)	92.5lbs (42.0kg)
No. of Connectors	6x 4.3-10 DIN Female Long Neck
Max Wind Speed	150mph (67m/s)
Equivalent Flat Plate Area ²	Front: 2.6ft ² (0.24m ²) Side: 5ft ² (0.48m ²)
Wind Load @160km/h (45m/s) ²	Front: 284.7N (64 lbs), Side: 535.5N (120.4 lbs)
Operating Temperature	-40°C to +65°C

² Derived from wind tunnel measurements

Fully Integrated RET Characteristics	
AISG Standards	V1.1, V 2.0 and 3GPP
Factory Default	AISG 2.0
Surge immunity	IEC 61000-4-5:2005 4KV (AISG PIN)
Device Type	SRET Type 1
AISG Data rate	9.6 kbps
No of connectors	2in/2out.
Connector type	IEC 60130-9 (Ed 3.0)
MTBF	36,000 Operational moves





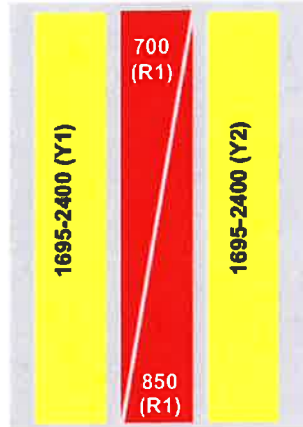
RET Configuration

The Quintel MultiServ™ Multiband 6 Port Antenna has the following Array, RF Port and AISG I/O Configurations.

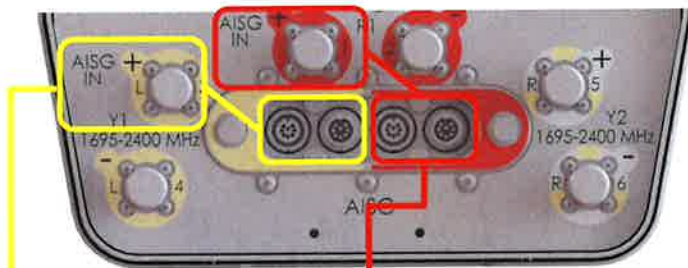
The 6-Port array topology consists of 3 radiating arrays:

R1 – 698-806 & 824-894MHz
Y1 – 1695-2400MHz
Y2 – 1695-2400MHz

RF Connector Port Configuration		
	Ports	Freq (MHz)
R1	1-2	698-806 & 824-894
Y1	3-4	1695-2400
Y2	5-6	1695-2400



The RET Devices can be communicated with either via the designated external AISG connector or RF Port as shown below.



AISG I/O Configuration		
RET Device	Band	RF Ports
3	1695-2400	3-6

AISG I/O Configuration		
RET Device	Band	RF Ports
1	698-806	1-2
2	824-894	1-2

Multiband Optimization

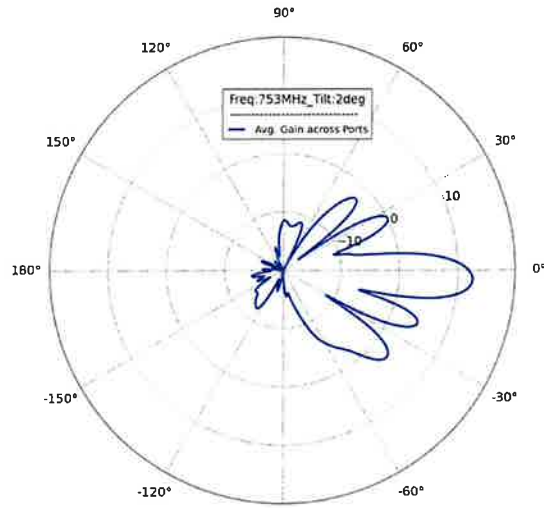
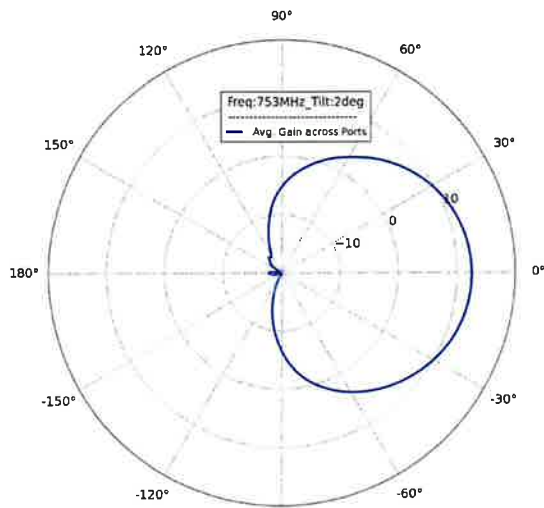
The Quintel MultiServ™ Multiband QSx656-5D series of 6 Port Antennas are the only antenna solutions for independently optimizing 700MHz and 850MHz services when dual-band, lowband radios are used at site. Independent tilting ensures that traffic in each band can be optimized for coverage, capacity, interference, contouring at 850MHz band, spectrum border area transitions, and for optimal carrier aggregation tuning in the future.

The tilt of each service is controlled independently via internal RET actuators compliant to AISG1.1, AISG2.0 and 3GPP protocols. The QS6656-5D provides a total of 3 independent tilts:

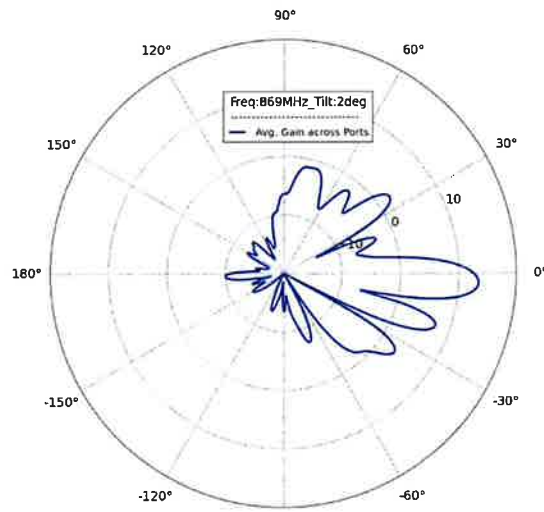
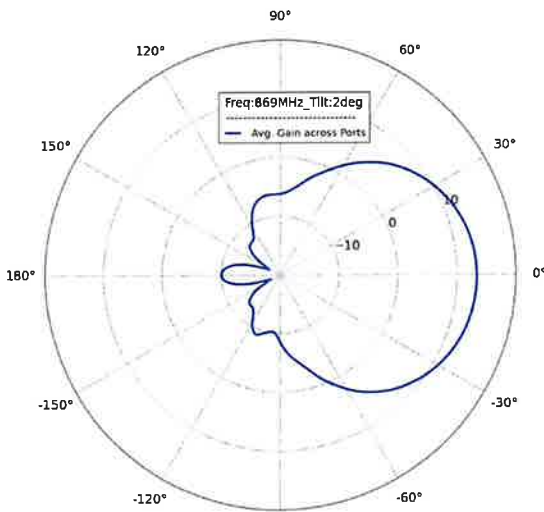
- 1x(698-806MHz)
- 1x(824-894MHz)
- 1x Left & Right Array (1695-2400MHz)

Design Optimization

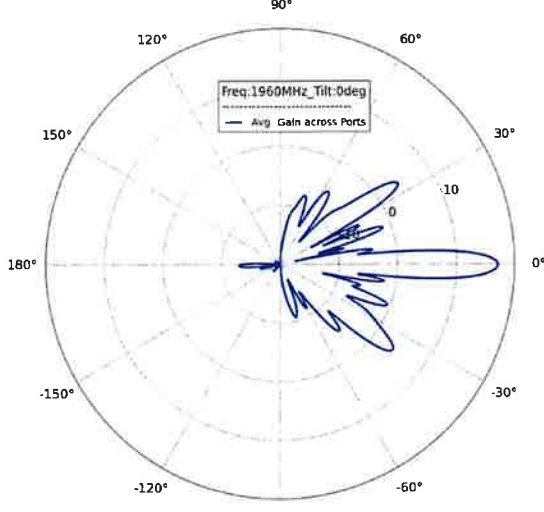
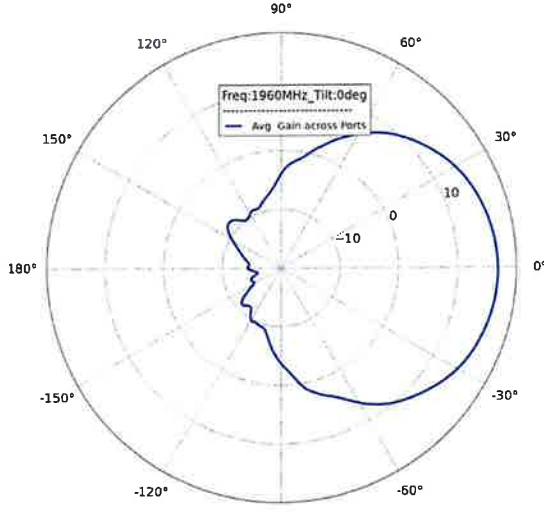
All Quintel antennas use the same mechanical mounting brackets thus making maintenance swaps easy and future proof. All Quintel Antennas also have Azimuth patterns optimized with network design and deployment in mind. The 3dB Azimuth beamwidth is ~65° as with most Antennas, but we have optimized how the pattern rolls-off and where the sidelobes emerge such that there is minimal Inter-Sector Interference when 3x sectors are deployed. For interference limited networks, we can deliver 25% more capacity.



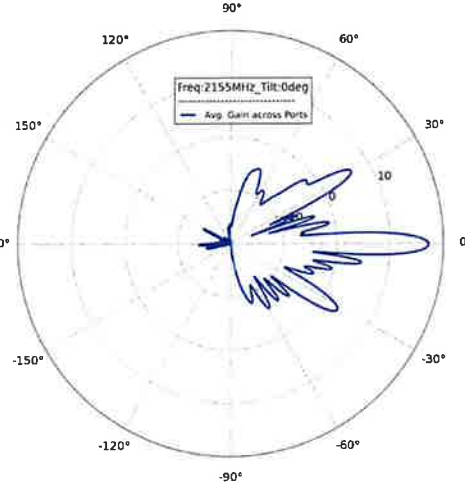
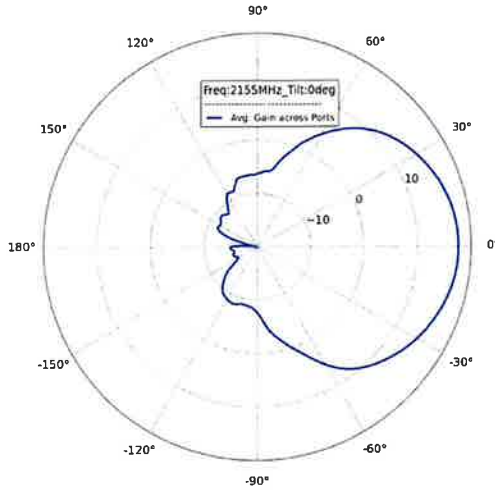
753MHz Azimuth (Left) and Elevation (Right) Patterns



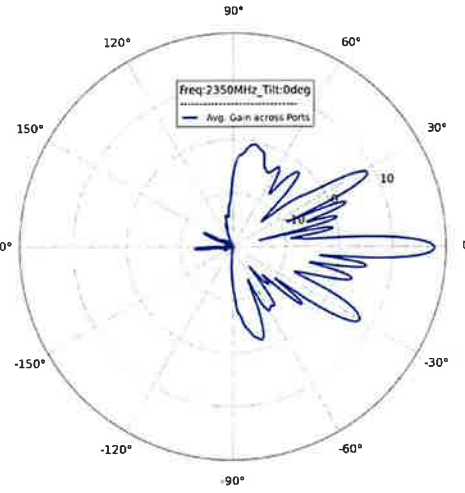
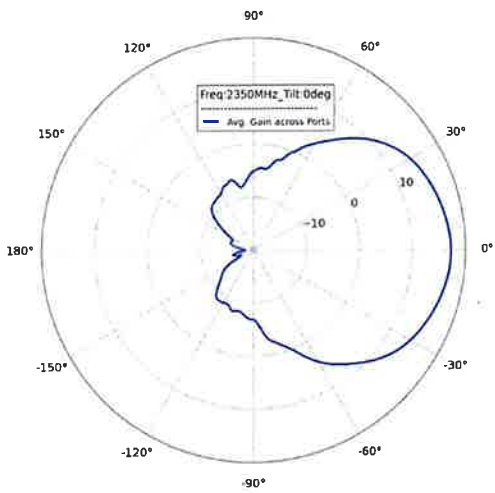
869MHz Azimuth (Left) and Elevation (Right) Patterns



1960MHz Azimuth (Left) and Elevation (Right) Patterns



2155MHz Azimuth (Left) and Elevation (Right) Patterns



2350MHz Azimuth (Left) and Elevation (Right) Patterns

Tel (Americas): +1 (585) 420-8720
info@quintelsolutions.com
www.quintelsolutions.com

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SAMSUNG

Dual-Band Radio Unit 700/850MHz (B13/B5) RFV01U-D2A

Samsung's RFV01U-D2A is a compact remote Radio Unit (RU) designed for deployments that require flexibility in installation and rapid onlining, without compromising on coverage, capacity or operational expenses.



The RFV01U-D2A RU targets dual-band support across Band 13 (700MHz) and Band 5 (850MHz), making it an ideal product for broad coverage footprints across multiple common low-end, long-range frequencies.

The RU handles all Radio Frequency (RF) processing in a single, compact unit, and is designed to interface via CPRI with Samsung's CDU baseband offerings, in both distributed- and central-RAN configurations.

In addition to its minimal footprint and ease of installation, the RU is also designed to reduce cost of ownership through its integrated spectrum analyzer, which allows for remote RF monitoring, greatly reducing the need for on-site maintenance visits.

Features and Benefits

- Dual-band support for broad frequency coverage
- Minimal footprint reduces site costs
- Rapid, easy installation
- Flexibly deployable in any location
- Remote RF monitoring capability
- Convection cooled, silent operation

Key Technical Specifications

Duplex Type: FDD

Operating Frequencies:

B13: DL(746-756MHz)/UL(777-787MHz)

B5: DL(869-894MHz)/UL(824-849MHz)

Instantaneous Bandwidth: 10MHz(B13) + 25MHz(B5)

RF Chain: 4T4R/2T4R/2T2R

Output Power: Total 320W

DU-RU Interface: CPRI (10Gbps)

Dimensions: 380 x 380 x 207mm (29.9L)

Weight: 31.9kg

Input Power: -48V DC

Operating Temp.: -40 - 55°(w/o solar load)

Cooling: Natural convection

SAMSUNG

Dual-Band Radio Unit

AWS/PCS (B66/B2)

RFV01U-D1A

Samsung's RFV01U-D1A is a compact remote Radio Unit (RU) designed for deployments that require flexibility in installation and rapid onlining, without compromising on coverage, capacity or operational expenses.



The RFV01U-D1A RU targets dual-band support across Band 66 (AWS) and Band 2 (PCS), making it an ideal product for broad coverage footprints across multiple common mid-range frequencies.

The RU handles all Radio Frequency (RF) processing in a single, compact unit, and is designed to interface via CPRI with Samsung's CDU baseband offerings, in both distributed- and central-RAN configurations.

In addition to its minimal footprint and ease of installation, the RU is also designed to reduce cost of ownership through its integrated spectrum analyzer, which allows for remote RF monitoring, greatly reducing the need for on-site maintenance visits.

Features and Benefits

- Dual-band support for broad frequency coverage
- Minimal footprint reduces site costs
- Rapid, easy installation
- Flexibly deployable in any location
- Remote RF monitoring capability
- Convection cooled, silent operation
- Built-in Broadcast Auxiliary Services (BAS) filter ensures compliant AWS operation without impacting footprint

Key Technical Specifications

Duplex Type: FDD

Operating Frequencies:

B66: DL(2,110-2,180MHz)/UL(1,710-1,780MHz)

B2: DL(1,930-1,990MHz)/UL(1,850-1,910MHz)

Instantaneous Bandwidth:

70MHz(B66) + 60MHz(B2)

RF Chain: 4T4R/2T4R/2T2R

Output Power: Total 320W

DU-RU Interface: CPRI (10Gbps)

Dimensions: 380 x 380 x 255mm (36.8L)

Weight: 38.3kg

Input Power: -48V DC

Operating Temp.: -40 - 55°(w/o solar load)

Cooling: Natural convection



HYBRIFLEX™ RRH Hybrid Feeder Cabling Solution, 1-5/8", Single-Mode Fiber

Product Description

RFS' HYBRIFLEX Remote Radio Head (RRH) hybrid feeder cabling solution combines optical fiber and DC power for RRHs in a single lightweight aluminum corrugated cable, making it the world's most innovative solution for RRH deployments.

It was developed to reduce installation complexity and costs at Cellular sites. HYBRIFLEX allows mobile operators deploying an RRH architecture to standardize the RRH installation process and eliminate the need for and cost of cable grounding. HYBRIFLEX combines optical fiber (multi-mode or single-mode) and power in a single corrugated cable. It eliminates the need for junction boxes and can connect multiple RRHs with a single feeder. Standard RFS CELLFLEX® accessories can be used with HYBRIFLEX cable. Both pre-connectorized and on-site options are available.

Features/Benefits

- Aluminum corrugated armor with outstanding bending characteristics - minimizes installation time and enables mechanical protection and shielding
- Same accessories as 1 5/8" coaxial cable
- Outer conductor grounding - eliminates typical grounding requirements and saves on installation costs
- Lightweight solution and compact design - Decreases tower loading
- Robust cabling - Eliminates need for expensive cable trays and ducts
- Installation of tight bundled fiber optic cable pairs directly to the RRH - Reduces CAPEX and wind load by eliminating need for interconnection
- Optical fiber and power cables housed in single corrugated cable - Saves CAPEX by standardizing RRH cable installation and reducing installation requirements
- Outdoor polyethylene jacket - Ensures long-lasting cable protection



Figure 1: HYBRIFLEX Series

Technical Specifications

Outer Conductor Armor	Corrugated Aluminum	[mm (in)]	46.5 (1.83)
Jacket	Polyethylene, PE	[mm (in)]	50.3 (1.98)
UV-Protection	Individual and External Jacket		Yes
Mechanical Properties			
Weight, Approximate		[kg/m (lb/ft)]	1.9 (1.30)
Minimum Bending Radius, Single Bending		[mm (in)]	200 (8)
Minimum Bending Radius, Repeated Bending		[mm (in)]	500 (20)
Recommended/Maximum Clamp Spacing		[m (ft)]	1.0 / 1.2 (3.25 / 4.0)
Electrical Properties			
DC-Resistance Outer Conductor Armor		[Ω/km (Ω/1000ft)]	0.68 (0.205)
DC-Resistance Power Cable, 8.4mm ² (8AWG)		[Ω/km (Ω/1000ft)]	2.1 (0.307)
Optical Properties			
Version			Single-mode OM3
Quantity, Fiber Count			16 (8 pairs)
Core/Clad		[μm]	50/125
Primary Coating (Acrylate)		[μm]	245
Buffer Diameter, Nominal		[μm]	900
Secondary Protection, Jacket, Nominal		[mm (in)]	2.0 (0.08)
Minimum Bending Radius		[mm (in)]	104 (4.1)
Insertion Loss @ wavelength 850nm		dB/km	3.0
Insertion Loss @ wavelength 1310nm		dB/km	1.0
Standards (Meets or exceeds)			UL94-V0, UL1666 RoHS Compliant
DC Power Cable Properties			
Size (Power)		[mm (AWG)]	8.4 (8)
Quantity, Wire Count (Power)			16 (8 pairs)
Size (Alarm)		[mm (AWG)]	0.8 (18)
Quantity, Wire Count (Alarm)			4 (2 pairs)
Type			UV protected
Strands			19
Primary Jacket Diameter, Nominal		[mm (in)]	6.8 (0.27)
Standards (Meets or exceeds)			NFPA 130, ICEA S-95-658 UL Type XHHW-2, UL 44 UL-L5 Limited Smoke, UL VW-1 IEEE-383 (1974), IEEE1202/FT4 RoHS Compliant
Operating Conditions			
Installation Temperature		[°C (°F)]	-40 to +65 (-40 to 149)
Operation Temperature		[°C (°F)]	-40 to +65 (-40 to 149)

* This data is provisional and subject to change

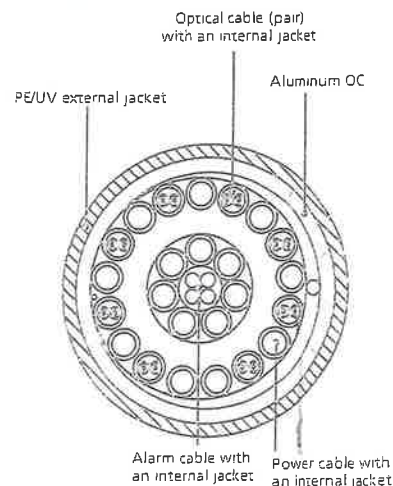


Figure 2: Construction Detail

All information contained in the present datasheet is subject to confirmation at time of ordering.

ATTACHMENT 2

Site Name: Orange 4 Tower Height: 180ft		General	Power	Density					
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	CALC. POWER DENS	FREQ.	MAX. PERMISS. EXP.	FRACTION MPE	Total	
*AT&T	2	1077	180	700	0.0256	0.4667	0.55%		
*AT&T	2	789	180	700	0.0187	0.4667	0.40%		
*AT&T	2	885	180	850	0.0210	0.5667	0.37%		
*AT&T	4	949	180	1900	0.0451	1.0000	0.45%		
*AT&T	2	553	180	850	0.0131	0.5667	0.23%		
*AT&T	2	414	180	850	0.0098	0.5667	0.17%		
*Sprint	1	377	152	850	0.0064	0.5667	0.11%		
*Sprint	2	377	152	850	0.0127	0.5667	0.22%		
*Sprint	5	512	152	1900	0.0432	1.0000	0.43%		
*Sprint	2	1280	152	1900	0.0432	1.0000	0.43%		
*Sprint	8	778	152	2500	0.1050	1.0000	1.05%		
*T-Mobile	4	1751	120	1900/2100	0.1938	1.0000	1.94%		
*T-Mobile	3	1007	120	700	0.0836	0.4667	1.79%		
VZW PCS	1	5004	136	0.0973	1970	1.0000	9.73%		
VZW Cellular	2	376	136	0.0073	869	0.5793	1.26%		
VZW Cellular	1	2134	136	0.0415	880	0.5866	7.07%		
VZW AWS	1	5879	136	0.1143	2145	1.0000	11.43%		
VZW 700	1	1735	136	0.0337	746	0.4973	6.78%		
									44.42%
* Source: Siting Council									

ATTACHMENT 3



Accelerating Network and Business Transformation

STRUCTURAL CERTIFICATION LETTER

May 23, 2019

VERIZON WIRELESS
118 FLANDERS ROAD, 3RDFLOOR
WESTBOROUGH, MA 01581

Location Code: 467124
RFDS Project ID: 65031
Site Name: N_STONINGTON_2_CT
Site Address: 227 Boom Bridge Rd, Pawcatuck, New London County, CT 06379
Structural Type: Proposed Sector Mounts (Site Pro 1 VFA12-HD) on existing 180 ft Guyed Tower

To Whom It May Concern:

Nexius is pleased to submit this “Structural Certification Letter” to determine the structural integrity of the above-mentioned structure for supporting the proposed and existing loading changes. The existing and proposed loading is detailed in the following loading **Table 1** (next page).

The structural certification has been prepared in accordance with the following design standards:

- 2018 Connecticut State Building Code (IBC 2015 w/ State Amendments)
- ANSI/TIA-222-G w/ Addendum-2, Structural Standard for Antenna Supporting Structures and Antennas
- Verizon Network Standard NSTD-445 dated 6/29/17.

Specifically, the design parameters are

Design Parameters	
Ultimate Wind Speed	136 mph
Nominal Wind Speed	105 mph
Nominal Wind Speed with Ice	50 mph
Radial Ice Thickness	0.75 in
Exposure Category	C
Structure Class	II
Topographic Category	1

The findings of this certification are based upon a comparative review of the proposed loading and the mount capacities by the Engineering Letter for the mount model by Site Pro 1, dated May 17, 2011. Upon the review and analysis, the above-mentioned proposed structure is determined to be **sufficient** for the proposed loading changes.

NEXIUS

Accelerating Network and Business Transformation

The proposed structures are to be installed according to the manufacturer's requirements. All structural components and connections should be checked for tightness and good condition prior to installing the proposed loading. All proposed equipment must be installed and supported in accordance with manufacturers' recommendations and specifications. Should you have any questions, comments or require additional information, please do not hesitate to contact us.

Sincerely Yours,
Analysis prepared by:

Akshay Doddamani
Structural Engineer

Approved by:

Jiazhu Hu, P.E.
Engineering Manager
License #: 31530

Digitally signed by Jiazhu Hu,
Ph.D., P.E.
DN: cn=Jiazhu Hu, Ph.D., P.E.,
o=Nexius, ou=Engineering,
email=Jiazhu.Hu@Nexius.com,
c=US
Date: 2019.05.23 13:58:29 -04'00'




TABLE 1 LOADING

Mount Elev. ft	Ant. Ctr. Elev. ft	Qty	Description	Carrier	Mount Type	Status
136	136	6	Quintel QS6656-5D	VERIZON WIRELESS	Existing T- Frame Mounts to be Replaced with New Sector Mounts (Site Pro 1 VFA12-HD)	Proposed
		3	Samsung B2/B66A RRH-BR049			
		3	Samsung B5/B13 RRH-BR04C			
		1	RFS DB-C1-12C-24AB-0Z			Existing to Remain
		6	Antel LPA-80080/4CF (171502)			
		3	Amphenol BXA-70063-6CF			
		3	Unknown			
		6	RFS FD9R6004/2C-3L			



Structural Analysis Report

Property Owner Centerline Communications
Structural Type 180 ft Guy Tower
Site Address 227 Boom Bridge Rd, Pawcatuck, New
London County, CT 06379
Site ID N/A
Site Name N/A
Latitude 41.428988
Longitude -71.80868

Client **Verizon Wireless**
118 Flanders Road, 3rd Floor
Westborough, MA 01581
Site Type MACRO
Site ID N/A
Site Name Pawcatuck – Boom Bridge Road
Location Code 467124

Prepared by Nexius Solutions, Inc.
2595 North Dallas Parkway Suite 300
Frisco, TX 75034
Job/Task Number VZW467124A01-NX062(SA)
Email structural@nexius.com
Phone 972-581-9888
Date 05/23/2019
Result Pass (85.0 %)

NEXIUS

Dear Sir / Madam:

Nexius Solutions is pleased to submit this **Structural Analysis Report** to determine the structural integrity of the referred tower.

Referenced documents used for this analysis are listed in the section DOCUMENTS & REFERENCES. This analysis has been performed in compliance with the

- *2018 Connecticut State Building Code (IBC 2015 w/ State Amendments) and*
- *ANSI/TIA-222-G w/ Addendums, Structural Standard for Antenna Supporting Structures and Antennas.*

Detailed design parameters are listed in Table 1. Analysis loading is detailed in Table 2 and Table 3.

Based on our analysis we have determined the following result:

Tower Stress Level	Tower Structural:	Sufficient (85.0 %)
	Foundation:	Sufficient

Nexius Solutions appreciates the opportunity of providing continued engineering services. Should you have any questions, comments or require additional information, please do not hesitate to contact us.

Sincerely,

Analysis Prepared by:

Jiazhu Hu, P.E.
Engineering Manager
License #: 31530



Digitally signed by Jiazhu Hu, Ph.D., P.E.
DN: cn=Jiazhu Hu, Ph.D., P.E., o=Nexius,
ou=Engineering, email=Jiazhu.Hu@Nexius.com,
c=US
Date: 2019.05.23 13:09:33 -04'00'

NEXIUS

DOCUMENTS & REFERENCES

- Construction Drawings (FOR CONSTRUCTION), Verizon Location Code:467124, Site Name: Pawcatuck – Boom Bridge Road, by Nexius, dated 05/23/2019.
- RFDS, Location Code: 467124, Site Name: Pawcatuck – Boom Bridge Road , by Verizon Wireless, dated 01/08/2019.
- Structural Analysis Report, ATT Site ID: CT2167, Site Name: Pawcatuck – Boom Bridge Road , by Hudson Design Group LLC, dated 11/14/2018.

DESIGN STANDARDS & PARAMETERS

TABLE 1 STANDARDS & DESIGN PARAMETERS

Codes and Standards	
Building Code	<i>2018 Connecticut State Building Code (2015 IBC w/ State Amendments)</i>
TIA Standard	ANSI/TIA-222-G w/ Addendums
Wind Parameters	
Ultimate Wind Speed	136 mph
Nominal Wind Speed	105 mph
Nominal Wind Speed with Ice	50 mph
Radial Ice Thickness	0.75 in
Exposure Category	C
Structure Class	II
Topographic Category	1
Seismic Design Parameters*	
S_s	0.161
S_1	0.058

RESULTS & RECOMMENDATIONS

Based on our analysis, it is determined that the existing tower structure and its foundation to be **adequate** to support the existing and proposed loading.

If the site conditions are different or do not meet requirements, the analysis result would not be valid and Nexius should be notified for re-evaluation

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LOADING

TABLE 2 – PROPOSED ANTENNA AND CABLE INFORMATION

Mount Elev. ft	Ant. Ctr. Elev. ft	Qty	Antenna Manufacturer	Antenna Model	No. of Feed Lines	Feed Line Size in	Note
136.0	136.0	6	Quintel	QS6656-5D	2	Hybrid Fiber: HB158-13U12S24-270-LI	-
		3	Samsung	B2/B66A RRH-BR049			
		3	Samsung	B5/B13 RRH-BR04C			
		1	RFS	DB-C1-12C-24AB-0Z			
		3	Site Pro 1	Sector Mount P/N: VFA12-HD			

TABLE 3 – EXISTING AND RESERVED ANTENNA AND CABLE INFORMATION

Mount Elev. ft	Ant. Ctr. Elev. ft	Qty	Antenna Manufacturer	Antenna Model	No. of Feed Lines	Feed Line Size in	Note
180.0	180.0	3	Powerwave	7770	12 2 1	1 5/8 DC Fiber	1
		2	Powerwave	P65-17-XLH-RR			
		1	CommScope	SBNH-1D6565C			
		3	CCI	TPA-65R-LCUUUU-H8			
		3	Ericsson	RRUS 11			
		3	Ericsson	RRUS B25 4415			
		3	CCI	DTMABP7819VG12A			
		6	Kaelus	DBC0061F1V51-2			
		1	Raycap	DC6-48-60-18-8F			
		3	Unknown	15' Sector Mounts			
		152.0	152.0	3			
3	RFS			APXVTM14			
3	ALU			TD-RRH8X20-25			
6	-			RRH-800			
3	-			RRH 190			
3	Unknown			15' Sector Mounts			
136.0	136.0*	6	Antel	LPA-80080/4CF (171502)	6 -	1 5/8 -	2 3
		3	Amphenol	BXA-70063-6CF			
		3		Unknown			
		6	RFS	FD9R6004/2C-3L			
		3	Unknown	15 ft T-Frame Mounts			
120.0	120.0	3	Ericsson	AIR 21 B4A B2P	12	1 5/8	1
		3	Ericsson	KRC118 057/1			
		3	Ericsson	RRUS-11			
		3	-	TMA			
		3	Unknown	Standoff Side Mounts			
98.0	98.0	1	-	GPS on Standoff Mount	1	1/2	1

* Based on mount mapping and RFDS.

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Notes:

- 1) Existing Equipment
- 2) Reserved Equipment
- 3) Equipment to be removed; Not considered in this analysis

ANALYSIS

tnxTower, a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for required loading cases. Selected output from the analysis is included in APPENDICES.

RESULTS

Tower Structural Capacity Ratios

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	$\sigma_{P_{allow}}$ K	% Capacit y	Pass Fail
T1	180 - 160	Leg	ROHN 2.5 X STR	2	-45.07	101.57	44.4	Pass
T2	160 - 140	Leg	ROHN 2.5 X STR	59	-41.17	101.57	40.5	Pass
T3	140 - 120	Leg	ROHN 2.5 X STR	115	-62.40	100.86	61.9	Pass
T4	120 - 100	Leg	ROHN 2.5 X STR	172	-62.85	100.85	62.3	Pass
T5	100 - 80	Leg	ROHN 2.5 X STR	231	-56.32	100.56	56.0	Pass
T6	80 - 60	Leg	ROHN 2.5 X STR	288	-55.39	81.62	67.9	Pass
T7	60 - 40	Leg	ROHN 2.5 X STR	319	-55.60	81.62	68.1	Pass
T8	40 - 20	Leg	ROHN 2.5 X STR	352	-59.69	81.62	73.1	Pass
T9	20 - 5	Leg	ROHN 2.5 X STR	385	-59.89	82.19	72.9	Pass
T10	5 - 0	Leg	ROHN 2.5 X STR	414	-63.59	99.33	64.0	Pass
T1	180 - 160	Diagonal	L2x2x1/4	14	-9.44	25.15	37.5	Pass
T2	160 - 140	Diagonal	ROHN TS 1.5 x 11Ga	113	-7.60	17.05	44.6	Pass
T3	140 - 120	Diagonal	ROHN TS 1.5 x 16Ga	170	-4.45	8.99	49.5	Pass
T4	120 - 100	Diagonal	ROHN TS 1.5 x 11Ga	183	-3.36	17.05	19.7	Pass
T5	100 - 80	Diagonal	ROHN TS 1.5 x 16Ga	246	-4.04	8.99	44.9	Pass
T6	80 - 60	Diagonal	ROHN TS 1.5 x 11Ga	316	-3.93	11.22	35.0	Pass
T7	60 - 40	Diagonal	ROHN TS 1.5 x 16Ga	328	-5.19	6.11	85.0	Pass
T8	40 - 20	Diagonal	ROHN TS 1.5 x 16Ga	382	-4.81	6.11	78.8	Pass
T9	20 - 5	Diagonal	ROHN TS 1.5 x 16Ga	396	-4.36	6.13	71.1	Pass
T10	5 - 0	Horizontal	L4x4x1/4	420	-0.29	49.31	25.7	Pass
T1	180 - 160	Top Girt	L2x2x1/4	6	-0.71	16.30	4.3	Pass
T2	160 - 140	Top Girt	ROHN TS 1.5 x 11Ga	63	-1.36	13.50	10.0	Pass
T3	140 - 120	Top Girt	ROHN TS 1.5 x 16Ga	118	0.33	10.23	3.2	Pass
T4	120 - 100	Top Girt	ROHN TS 1.5 x 11Ga	177	1.05	19.61	5.3	Pass
T5	100 - 80	Top Girt	ROHN TS 1.5 x 16Ga	234	0.84	10.23	8.2	Pass
T6	80 - 60	Top Girt	ROHN TS 1.5 x 11Ga	289	-1.46	13.50	10.8	Pass
T7	60 - 40	Top Girt	ROHN TS 1.5 x 16Ga	324	-0.77	7.25	10.6	Pass
T8	40 - 20	Top Girt	ROHN TS 1.5 x 16Ga	355	-1.35	7.25	18.6	Pass
T9	20 - 5	Top Girt	ROHN TS 1.5 x 16Ga	390	-0.97	7.25	13.3	Pass
T10	5 - 0	Top Girt	L4x4x1/4	417	3.15	62.86	5.0	Pass
T1	180 - 160	Bottom Girt	L2x2x1/4	9	1.93	30.39	6.3	Pass
T2	160 - 140	Bottom Girt	ROHN TS 1.5 x 11Ga	66	0.71	19.61	3.6	Pass
T3	140 - 120	Bottom Girt	ROHN TS 1.5 x 16Ga	123	0.64	10.23	6.3	Pass
T4	120 - 100	Bottom Girt	ROHN TS 1.5 x 11Ga	180	0.76	19.61	3.9	Pass
T5	100 - 80	Bottom Girt	ROHN TS 1.5 x 16Ga	235	0.74	10.23	7.2	Pass
T6	80 - 60	Bottom Girt	ROHN TS 1.5 x 11Ga	293	-0.63	13.50	4.7	Pass
T7	60 - 40	Bottom Girt	ROHN TS 1.5 x 16Ga	325	-1.36	7.25	18.8	Pass

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Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail	
T8	40 - 20	Bottom Girt	ROHN TS 1.5 x 16Ga	360	-0.88	7.25	12.2	Pass	
T9	20 - 5	Bottom Girt	L3x3x1/2	392	11.01	89.10	12.4	Pass	
T1	180 - 160	Guy A@162.527	1/2	435	9.02	16.14	55.9	Pass	
		Guy A@162.527	7/8	456	24.73	47.82	51.7	Pass	
T3	140 - 120	Guy A@132.178	9/16	444	14.89	21.00	70.9	Pass	
T5	100 - 80	Guy A@82.5273	3/4	450	19.61	34.98	56.1	Pass	
T7	60 - 40	Guy A@49.7656	1/2	462	8.40	16.14	52.0	Pass	
T1	180 - 160	Guy B@162.527	1/2	432	10.46	16.14	64.8	Pass	
		Guy B@162.527	7/8	455	25.41	47.82	53.1	Pass	
T3	140 - 120	Guy B@132.178	9/16	443	15.86	21.00	75.5	Pass	
T5	100 - 80	Guy B@82.5273	3/4	449	22.59	34.98	64.6	Pass	
T7	60 - 40	Guy B@49.7656	1/2	461	10.05	16.14	62.3	Pass	
T1	180 - 160	Guy C@162.527	1/2	427	10.44	16.14	64.7	Pass	
		Guy C@162.527	7/8	451	25.36	47.82	53.0	Pass	
T3	140 - 120	Guy C@132.178	9/16	439	15.87	21.00	75.6	Pass	
T5	100 - 80	Guy C@82.5273	3/4	445	22.63	34.98	64.7	Pass	
T7	60 - 40	Guy C@49.7656	1/2	457	10.06	16.14	62.4	Pass	
T1	180 - 160	Top Guy Pull-Off@162.527	2L2x2x1/4x3/8	454	9.08	60.91	14.9	Pass	
T3	140 - 120	Top Guy Pull-Off@132.178	4X3/8	442	6.01	48.60	12.4	Pass	
T5	100 - 80	Top Guy Pull-Off@82.5273	2L2x2x1/4x3/8	448	8.51	60.91	14.0	Pass	
T7	60 - 40	Top Guy Pull-Off@49.7656	4X3/8	459	5.62	48.60	11.6	Pass	
T1	180 - 160	Torque Arm Top@162.527	C12x20.7	437	-2.76	173.45	31.4	Pass	
							Summary		
							Leg (T8)	73.1	Pass
							Diagonal (T7)	85.0	Pass
							Horizontal (T10)	25.7	Pass
							Top Girt (T8)	18.6	Pass
							Bottom Girt (T7)	18.8	Pass
							Guy A (T3)	70.9	Pass
							Guy B (T3)	75.5	Pass
							Guy C (T3)	75.6	Pass
							Top Guy Pull-Off (T1)	14.9	Pass
							Torque Arm Top (T1)	31.4	Pass
							RATING =	85.0	Pass

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Tower Structural	Reactions	Previous Analysis	Present Analysis	Conclusion
Tower Mast	Axial	222.8 kips	175 kips	Adequate
	Shear	3.6 kips	2 kips	
Inner Guy	Uplift	27.8 kips	19 kips	
	Shear	38.6 kips	26 kips	
Middle Guy	Uplift	42.8 kips	29 kips	
	Shear	41.2 kips	28 kips	
Outer Guy	Uplift	19.7 kips	13 kips	
	Shear	20.7 kips	13 kips	

ASSUMPTIONS

- 1) Tower and structures were built in accordance with the manufacturer's specifications.
- 2) The tower and structures have been maintained in accordance with manufacturer's specification.
- 3) No detailed information of tower structural connections available and they are assumed to be as strong as the members and/or structural components they connect.
- 4) The existing configuration of antennas, transmission cables, mounts and other appurtenances listed in the referred previous structural analysis are accurate and are as specified in Tables 2 and 3.
- 5) The tower foundations are in good condition and previous analyses are accurate about the foundation condition and capacities.

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

NEXIUS

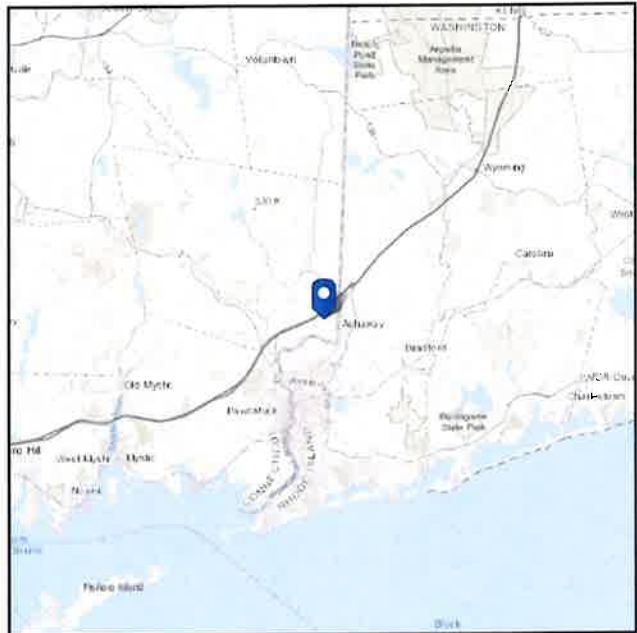
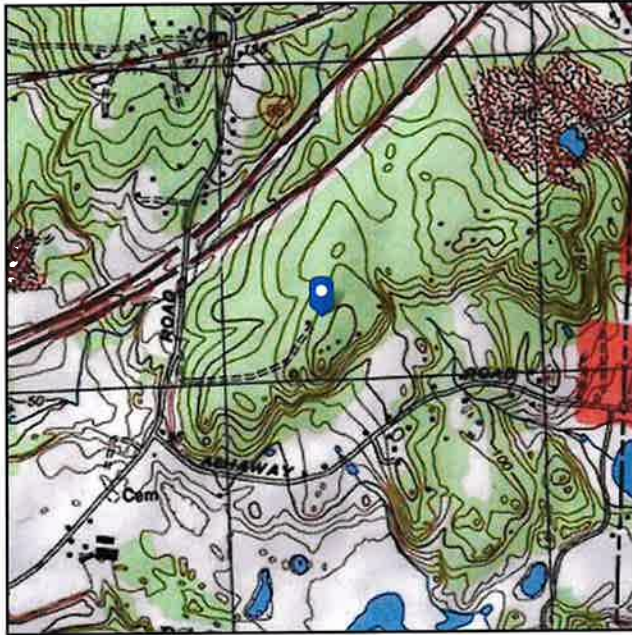
Appendix #1: Loading Parameters and Calculations

ASCE 7 Hazards Report

Address:
No Address at This
Location

Standard: ASCE/SEI 7-10
Risk Category: II
Soil Class: D - Stiff Soil

Elevation: 192.54 ft (NAVD 88)
Latitude: 41.428988
Longitude: -71.80868



Wind

Results:

Wind Speed:	136 Vmph
10-year MRI	80 Vmph
25-year MRI	90 Vmph
50-year MRI	100 Vmph
100-year MRI	110 Vmph

Data Source: ASCE/SEI 7-10, Fig. 26.5-1A and Figs. CC-1–CC-4, incorporating errata of March 12, 2014

Date Accessed: Tue May 07 2019

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-10 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

Site is in a hurricane-prone region as defined in ASCE/SEI 7-10 Section 26.2. Glazed openings need not be protected against wind-borne debris.

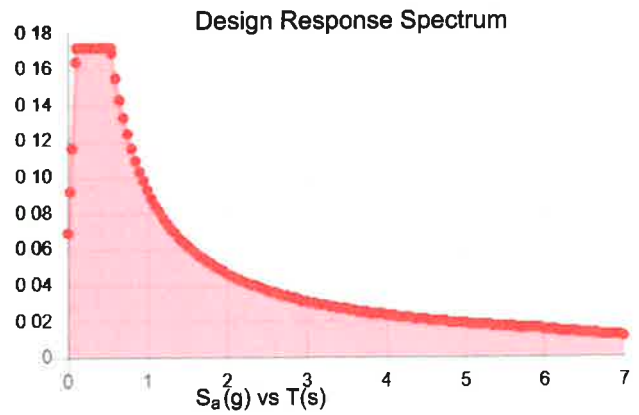
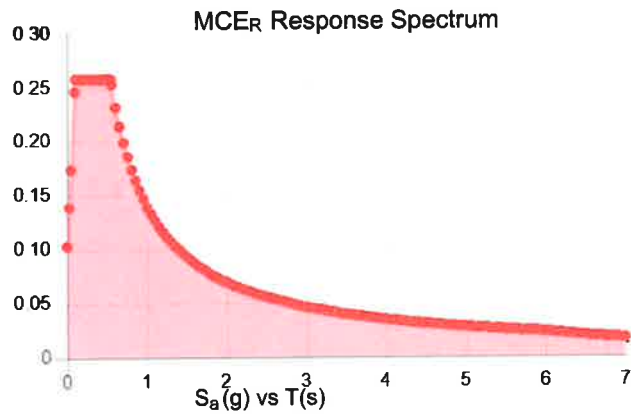
Mountainous terrain, gorges, ocean promontories, and special wind regions should be examined for unusual wind conditions.

Site Soil Class: D - Stiff Soil

Results:

S_s :	0.161	S_{DS} :	0.172
S_1 :	0.058	S_{D1} :	0.093
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.08
S_{MS} :	0.258	PGA_M :	0.129
S_{M1} :	0.139	F_{PGA} :	1.6
		I_e :	1

Seismic Design Category B



Data Accessed:

Tue May 07 2019

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-10, incorporating Supplement 1 and errata of March 31, 2013, and ASCE/SEI 7-10 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-10 Ch. 21 are available from USGS.



Ice

Results:

Ice Thickness: 0.75 in.
Concurrent Temperature: 15 F
Gust Speed: 50 mph

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

Date Accessed: Tue May 07 2019

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

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 50-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided "as is" and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

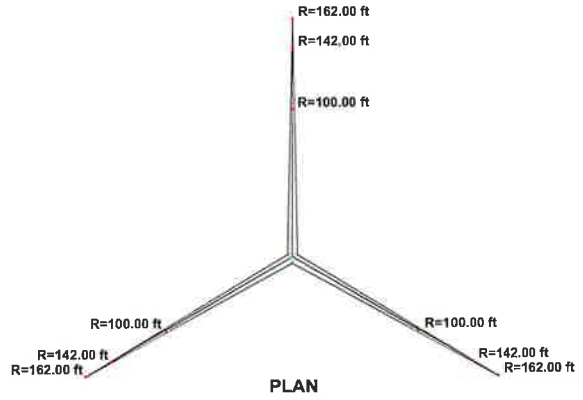
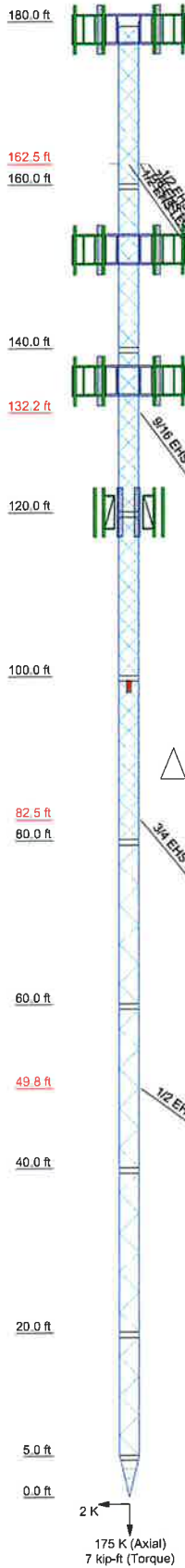
ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE 7 standard.

In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE 7 Hazard Tool.

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Appendix #2: InxTower Output

Section	T10	T8	T7	T6	T5	T4	T3	T2	T1
Legs	ROHN 2.5 X STR								
Leg Grade	A572-50								
Diagonals	N.A.	ROHN TS 1.5 x 16Ga		ROHN TS 1.5 x 11Ga		ROHN TS 1.5 x 16Ga		ROHN TS 1.5 x 11Ga	
Diagonal Grade	N.A.	A53-B-42		A53-B-42		A53-B-42		A53-B-42	
Top Girts	A	ROHN TS 1.5 x 16Ga		ROHN TS 1.5 x 11Ga		ROHN TS 1.5 x 16Ga		ROHN TS 1.5 x 11Ga	
Bottom Girts	N.A.	ROHN TS 1.5 x 16Ga		ROHN TS 1.5 x 11Ga		ROHN TS 1.5 x 16Ga		ROHN TS 1.5 x 11Ga	
Horizontal	A	L3x3x1/2		ROHN TS 1.5 x 11Ga		ROHN TS 1.5 x 16Ga		ROHN TS 1.5 x 11Ga	
Top Guy Pull-Offs	N.A.	N.A.		4X3/8		4X3/8		2L2x2x1/4x3/8	
Face Width (ft)	64 @ 2.41276								
# Panels @ (ft)	B	6 @ 2.38368		0.5		0.6		0.9	
Weight (K)	7.8	0.3		0.5		0.6		0.7	



SYMBOL LIST

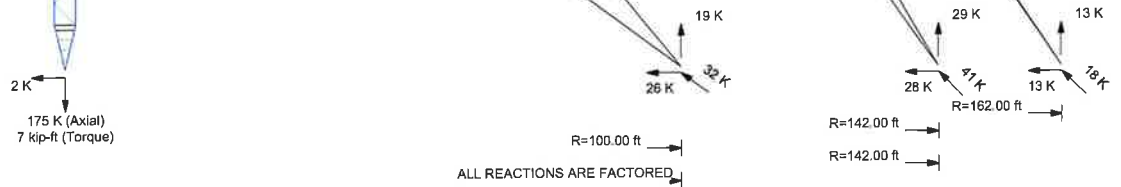
MARK	SIZE	MARK	SIZE
A	L4x4x1/4	B	4 @ 1.125

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A53-B-42	42 ksi	63 ksi

TOWER DESIGN NOTES

1. Tower is located in New London County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-G Standard.
3. Tower designed for a 105 mph basic wind in accordance with the TIA-222-G Standard.
4. Tower is also designed for a 50 mph basic wind with 0.75 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Structure Class II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 85%



Nexus Solutions, Inc.		Job: VZW467124A01-NX062(SA)	
NEXIUS 2595 North Dallas Parkway Suite 300		Project: VZW11509-N Stonington 2 CT	
Frisco, TX 75034		Client: Verizon	Drawn by: JHU
Phone: 972-581-9888		Code: TIA-222-G	Date: 05/23/19
FAX:		Path:	Scale: NTS
		Dwg No E-1	

tnxTower Nexius Solutions, Inc. 2595 North Dallas Parkway Suite 300 Frisco, TX 75034 Phone: 972-581-9888 FAX:	Job VZW467124A01-NX062(SA)	Page 1 of 20
	Project VZW11509-N_Stonington_2_CT	Date 13:02:05 05/23/19
	Client Verizon	Designed by JHU

Tower Input Data

The main tower is a 3x guyed tower with an overall height of 180.00 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 3.42 ft at the top and tapered at the base.
This tower is designed using the TIA-222-G standard.

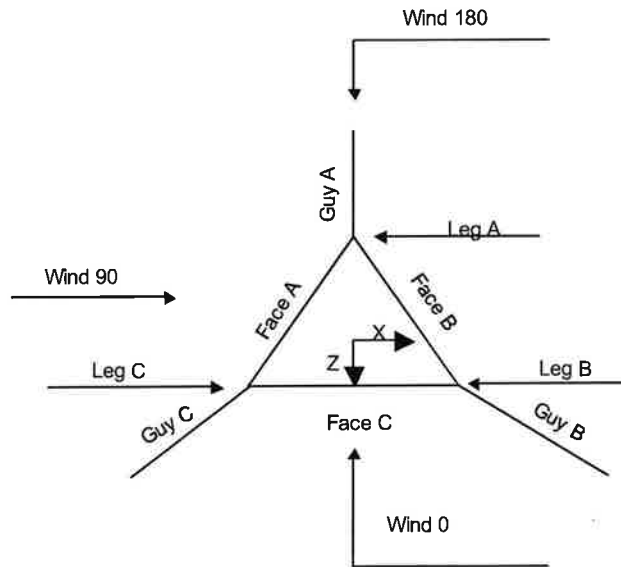
The following design criteria apply:

- Tower is located in New London County, Connecticut.
- Basic wind speed of 105 mph.
- Structure Class II.
- Exposure Category C.
- Topographic Category 1.
- Crest Height 0.00 ft.
- Nominal ice thickness of 0.7500 in.
- Ice thickness is considered to increase with height.
- Ice density of 56 pcf.
- A wind speed of 50 mph is used in combination with ice.
- Temperature drop of 50 °F.
- Deflections calculated using a wind speed of 60 mph.
- Pressures are calculated at each section.
- Safety factor used in guy design is 1.
- Stress ratio used in tower member design is 1.
- Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

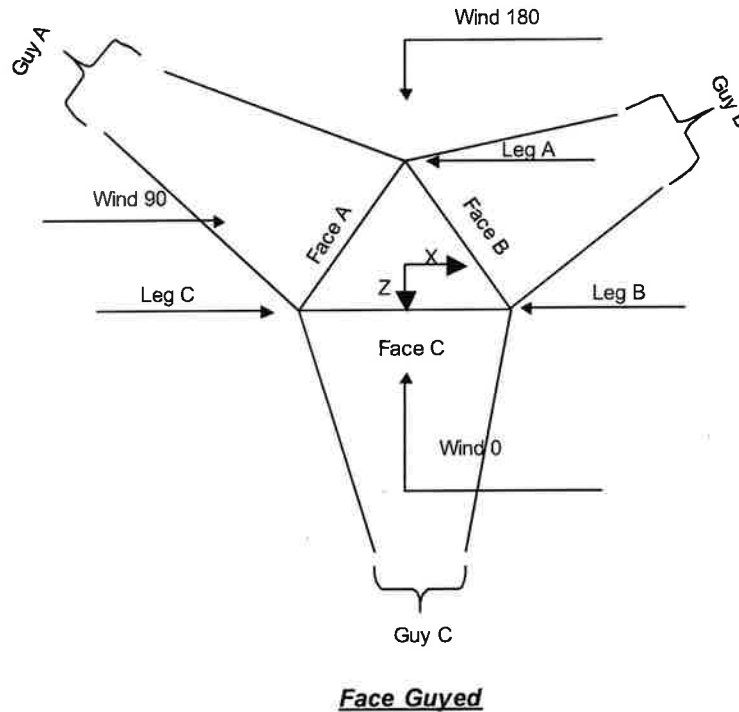
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|--|---|--|
| <ul style="list-style-type: none"> Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification √ Use Code Stress Ratios √ Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use 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-G Bracing Resist. Exemption Use TIA-222-G Tension Splice Exemption <li style="background-color: #e0e0e0;">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 Nexius Solutions, Inc. 2595 North Dallas Parkway Suite 300 Frisco, TX 75034 Phone: 972-581-9888 FAX:	Job VZW467124A01-NX062(SA)	Page 2 of 20
	Project VZW11509-N_Stonington_2_CT	Date 13:02:05 05/23/19
	Client Verizon	Designed by JHU



Corner & Starmount Guyed Tower

tnxTower Nexius Solutions, Inc. 2595 North Dallas Parkway Suite 300 Frisco, TX 75034 Phone: 972-581-9888 FAX:	Job VZW467124A01-NX062(SA)	Page 3 of 20
	Project VZW11509-N_Stonington_2_CT	Date 13:02:05 05/23/19
	Client Verizon	Designed by JHU



Tower Section Geometry

<i>Tower Section</i>	<i>Tower Elevation</i>	<i>Assembly Database</i>	<i>Description</i>	<i>Section Width</i>	<i>Number of Sections</i>	<i>Section Length</i>
	<i>ft</i>			<i>ft</i>		<i>ft</i>
T1	180.00-160.00			3.42	1	20.00
T2	160.00-140.00			3.42	1	20.00
T3	140.00-120.00			3.42	1	20.00
T4	120.00-100.00			3.42	1	20.00
T5	100.00-80.00			3.42	1	20.00
T6	80.00-60.00			3.42	1	20.00
T7	60.00-40.00			3.42	1	20.00
T8	40.00-20.00			3.42	1	20.00
T9	20.00-5.00			3.42	1	15.00
T10	5.00-0.00			3.42	1	5.00

Tower Section Geometry (cont'd)

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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	180.00-160.00	2.41	X Brace	No	No	7.0000	1.3750
T2	160.00-140.00	2.41	X Brace	No	No	7.0000	1.3750
T3	140.00-120.00	2.41	X Brace	No	No	7.0000	1.3750
T4	120.00-100.00	2.41	X Brace	No	No	7.0000	1.3750
T5	100.00-80.00	2.41	X Brace	No	No	7.0000	1.3750
T6	80.00-60.00	2.41	K Brace Right	No	No	7.0000	1.3750
T7	60.00-40.00	2.41	K Brace Right	No	No	7.0000	1.3750
T8	40.00-20.00	2.41	K Brace Right	No	No	7.0000	1.3750
T9	20.00-5.00	2.38	K Brace Right	No	No	7.0000	1.3750
T10	5.00-0.00	1.13	X Brace	No	Yes	6.0000	0.0000

Tower Section Geometry (cont'd)

Tower Elevation	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
ft						
T1 180.00-160.00	Pipe	ROHN 2.5 X STR	A572-50 (50 ksi)	Equal Angle	L2x2x1/4	A53-B-42 (42 ksi)
T2 160.00-140.00	Pipe	ROHN 2.5 X STR	A572-50 (50 ksi)	Pipe	ROHN TS 1.5 x 11Ga	A53-B-42 (42 ksi)
T3 140.00-120.00	Pipe	ROHN 2.5 X STR	A572-50 (50 ksi)	Pipe	ROHN TS 1.5 x 16Ga	A53-B-42 (42 ksi)
T4 120.00-100.00	Pipe	ROHN 2.5 X STR	A572-50 (50 ksi)	Pipe	ROHN TS 1.5 x 11Ga	A53-B-42 (42 ksi)
T5 100.00-80.00	Pipe	ROHN 2.5 X STR	A572-50 (50 ksi)	Pipe	ROHN TS 1.5 x 16Ga	A53-B-42 (42 ksi)
T6 80.00-60.00	Pipe	ROHN 2.5 X STR	A572-50 (50 ksi)	Pipe	ROHN TS 1.5 x 11Ga	A53-B-42 (42 ksi)
T7 60.00-40.00	Pipe	ROHN 2.5 X STR	A572-50 (50 ksi)	Pipe	ROHN TS 1.5 x 16Ga	A53-B-42 (42 ksi)
T8 40.00-20.00	Pipe	ROHN 2.5 X STR	A572-50 (50 ksi)	Pipe	ROHN TS 1.5 x 16Ga	A53-B-42 (42 ksi)
T9 20.00-5.00	Pipe	ROHN 2.5 X STR	A572-50 (50 ksi)	Pipe	ROHN TS 1.5 x 16Ga	A53-B-42 (42 ksi)
T10 5.00-0.00	Pipe	ROHN 2.5 X STR	A572-50 (50 ksi)	Equal Angle		A36 (36 ksi)

Tower Section Geometry (cont'd)

Tower Elevation	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
ft						
T1 180.00-160.00	Equal Angle	L2x2x1/4	A36 (36 ksi)	Equal Angle	L2x2x1/4	A36 (36 ksi)
T2 160.00-140.00	Pipe	ROHN TS 1.5 x 11Ga	A53-B-42 (42 ksi)	Pipe	ROHN TS 1.5 x 11Ga	A53-B-42 (42 ksi)
T3 140.00-120.00	Pipe	ROHN TS 1.5 x 16Ga	A53-B-42 (42 ksi)	Pipe	ROHN TS 1.5 x 16Ga	A53-B-42 (42 ksi)
T4 120.00-100.00	Pipe	ROHN TS 1.5 x 11Ga	A53-B-42 (42 ksi)	Pipe	ROHN TS 1.5 x 11Ga	A53-B-42 (42 ksi)
T5 100.00-80.00	Pipe	ROHN TS 1.5 x 16Ga	A53-B-42	Pipe	ROHN TS 1.5 x 16Ga	A53-B-42

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Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
T6 80.00-60.00	Pipe	ROHN TS 1.5 x 11Ga	(42 ksi) A53-B-42	Pipe	ROHN TS 1.5 x 11Ga	(42 ksi) A53-B-42
T7 60.00-40.00	Pipe	ROHN TS 1.5 x 16Ga	(42 ksi) A53-B-42	Pipe	ROHN TS 1.5 x 16Ga	(42 ksi) A53-B-42
T8 40.00-20.00	Pipe	ROHN TS 1.5 x 16Ga	(42 ksi) A53-B-42	Pipe	ROHN TS 1.5 x 16Ga	(42 ksi) A53-B-42
T9 20.00-5.00	Pipe	ROHN TS 1.5 x 16Ga	(42 ksi) A53-B-42	Equal Angle	L3x3x1/2	A36 (36 ksi)
T10 5.00-0.00	Equal Angle	L4x4x1/4	A36 (36 ksi)	Equal Angle	L4x4x1/4	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
T10 5.00-0.00	None	Solid Round		A572-50 (50 ksi)	Equal Angle	L4x4x1/4	A36 (36 ksi)

Tower Section Geometry (cont'd)

Tower Elevation ft	Secondary Horizontal Type	Secondary Horizontal Size	Secondary Horizontal Grade	Inner Bracing Type	Inner Bracing Size	Inner Bracing Grade
T10 5.00-0.00	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
T1 180.00-160.00	0.00	0.3750	A36 (36 ksi)	1	1	1	36.0000	36.0000	36.0000
T2 160.00-140.00	0.00	0.3750	A36 (36 ksi)	1	1	1	36.0000	36.0000	36.0000
T3 140.00-120.00	0.00	0.3750	A36 (36 ksi)	1	1	1	36.0000	36.0000	36.0000
T4 120.00-100.00	0.00	0.3750	A36 (36 ksi)	1	1	1	36.0000	36.0000	36.0000
T5 100.00-80.00	0.00	0.3750	A36 (36 ksi)	1	1	1	36.0000	36.0000	36.0000

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Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
ft	ft ²	in					in	in	in
T6 80.00-60.00	0.00	0.3750	A36 (36 ksi)	1	1	1	36.0000	36.0000	36.0000
T7 60.00-40.00	0.00	0.3750	A36 (36 ksi)	1	1	1	36.0000	36.0000	36.0000
T8 40.00-20.00	0.00	0.3750	A36 (36 ksi)	1	1	1	36.0000	36.0000	36.0000
T9 20.00-5.00	0.00	0.3750	A36 (36 ksi)	1	1	1	36.0000	36.0000	36.0000
T10 5.00-0.00	0.00	0.3750	A36 (36 ksi)	1	1	1	36.0000	36.0000	36.0000

Tower Section Geometry (cont'd)

Tower Elevation	Calc K Single Angles	Calc K Solid Rounds	Legs	K Factors ¹							
				X Brace Diags	K Brace Diags	Single Diags	Girts	Horiz.	Sec. Horiz.	Inner Brace	
											X Y
ft											
T1 180.00-160.00	Yes	Yes	1	1	1	1	1	1	1	1	1
T2 160.00-140.00	Yes	Yes	1	1	1	1	1	1	1	1	1
T3 140.00-120.00	Yes	Yes	1	1	1	1	1	1	1	1	1
T4 120.00-100.00	Yes	Yes	1	1	1	1	1	1	1	1	1
T5 100.00-80.00	Yes	Yes	1	1	1	1	1	1	1	1	1
T6 80.00-60.00	Yes	Yes	1	1	1	1	1	1	1	1	1
T7 60.00-40.00	Yes	Yes	1	1	1	1	1	1	1	1	1
T8 40.00-20.00	Yes	Yes	1	1	1	1	1	1	1	1	1
T9 20.00-5.00	Yes	Yes	1	1	1	1	1	1	1	1	1
T10 5.00-0.00	Yes	Yes	1	1	1	1	1	1	1	1	1

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

Tower Section Geometry (cont'd)

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Tower Elevation ft	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T1 180.00-160.00	0.0000	1	0.0000	1	0.0000	1	0.0000	1	0.0000	0.75	0.0000	1	0.00000	0.75
T2 160.00-140.00	0.0000	1	0.0000	1	0.0000	1	0.0000	1	0.0000	0.75	0.0000	1	0.00000	0.75
T3 140.00-120.00	0.0000	1	0.0000	1	0.0000	1	0.0000	1	0.0000	0.75	0.0000	1	0.00000	0.75
T4 120.00-100.00	0.0000	1	0.0000	1	0.0000	1	0.0000	1	0.0000	0.75	0.0000	1	0.00000	0.75
T5 100.00-80.00	0.0000	1	0.0000	1	0.0000	1	0.0000	1	0.0000	0.75	0.0000	1	0.00000	0.75
T6 80.00-60.00	0.0000	1	0.0000	1	0.0000	1	0.0000	1	0.0000	0.75	0.0000	1	0.0000	0.75
T7 60.00-40.00	0.0000	1	0.0000	1	0.0000	1	0.0000	1	0.0000	0.75	0.0000	1	0.0000	0.75
T8 40.00-20.00	0.0000	1	0.0000	1	0.0000	1	0.0000	1	0.0000	0.75	0.0000	1	0.0000	0.75
T9 20.00-5.00	0.0000	1	0.0000	1	0.0000	1	0.0000	1	0.0000	0.75	0.0000	1	0.0000	0.75
T10 5.00-0.00	0.0000	1	0.0000	1	0.0000	1	0.0000	1	0.0000	0.75	0.0000	1	0.0000	0.75

Guy Data

Guy Elevation	Guy Grade	Guy Size	Initial Tension	%	Guy Modulus	Guy Weight	L _n	Anchor Radius	Anchor Azimuth Adj.	Anchor Elevation	End Fitting Efficiency	
ft			K		ksi	plf	ft	ft	°	ft	%	
162.527	EHS	A	1/2	2.15	8%	21000	0.517	227.97	162.00	0.0000	0.00	100%
		B	1/2	2.15	8%	21000	0.517	227.97	162.00	0.0000	0.00	100%
		C	1/2	2.15	8%	21000	0.517	227.97	162.00	0.0000	0.00	100%
132.178	EHS	A	9/16	4.20	12%	21000	0.671	192.36	142.00	0.0000	0.00	100%
		B	9/16	4.20	12%	21000	0.671	192.36	142.00	0.0000	0.00	100%
		C	9/16	4.20	12%	21000	0.671	192.36	142.00	0.0000	0.00	100%
82.5273	EHS	A	3/4	4.66	8%	19000	1.155	128.05	100.00	0.0000	0.00	100%
		B	3/4	4.66	8%	19000	1.155	128.05	100.00	0.0000	0.00	100%
		C	3/4	4.66	8%	19000	1.155	128.05	100.00	0.0000	0.00	100%
162.527	EHS	A	7/8	6.38	8%	19000	1.581	214.38	142.00	0.0000	0.00	100%
		B	7/8	6.38	8%	19000	1.581	214.38	142.00	0.0000	0.00	100%
		C	7/8	6.38	8%	19000	1.581	214.38	142.00	0.0000	0.00	100%
49.7656	EHS	A	1/2	2.69	10%	21000	0.517	109.84	100.00	0.0000	0.00	100%
		B	1/2	2.69	10%	21000	0.517	109.84	100.00	0.0000	0.00	100%
		C	1/2	2.69	10%	21000	0.517	109.84	100.00	0.0000	0.00	100%

Guy Data(cont'd)

Guy Elevation ft	Mount Type	Torque-Arm Spread ft	Torque-Arm Leg Angle °	Torque-Arm Style	Torque-Arm Grade	Torque-Arm Type	Torque-Arm Size
162.527	Torque Arm	6.83	0.0000	Channel	A36 (36 ksi)	Channel	C12x20.7
132.178	Corner						
82.5273	Corner						

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Guy Elevation ft	Mount Type	Torque-Arm Spread ft	Torque-Arm Leg Angle °	Torque-Arm Style	Torque-Arm Grade	Torque-Arm Type	Torque-Arm Size
162.527	Corner						
49.7656	Corner						

Guy Data (cont'd)

Guy Elevation ft	Diagonal Grade	Diagonal Type	Upper Diagonal Size	Lower Diagonal Size	Is Strap	Pull-Off Grade	Pull-Off Type	Pull-Off Size
162.53	A572-50 (50 ksi)	Solid Round				A36 (36 ksi)	Flat Bar	
132.18	A572-50 (50 ksi)	Solid Round			No	A36 (36 ksi)	Flat Bar	4X3/8
82.53	A572-50 (50 ksi)	Solid Round			No	A36 (36 ksi)	Double Equal Angle	2L2x2x1/4x3/8
162.53	A572-50 (50 ksi)	Solid Round			No	A36 (36 ksi)	Double Equal Angle	2L2x2x1/4x3/8
49.77	A572-50 (50 ksi)	Solid Round			No	A36 (36 ksi)	Flat Bar	4X3/8

Guy Data (cont'd)

Guy Elevation ft	Cable Weight			Tower Intercept				
	A K	B K	C K	D K	A ft	B ft	C ft	D ft
162.527	0.12	0.12	0.12		6.13	6.13	6.13	
132.178	0.13	0.13	0.13		4.3 sec/pulsc 2.93	4.3 sec/pulsc 2.93	4.3 sec/pulsc 2.93	
82.5273	0.15	0.15	0.15		3.0 sec/pulsc 2.01	3.0 sec/pulsc 2.01	3.0 sec/pulsc 2.01	
162.527	0.34	0.34	0.34		2.4 sec/pulsc 5.59	2.4 sec/pulsc 5.59	2.4 sec/pulsc 5.59	
49.7656	0.06	0.06	0.06		4.1 sec/pulsc 1.15	4.1 sec/pulsc 1.15	4.1 sec/pulsc 1.15	
					1.9 sec/pulsc	1.9 sec/pulsc	1.9 sec/pulsc	

Guy Data (cont'd)

Guy Elevation ft	Calc K Single Angles	Calc K Solid Rounds	Torque Arm		Pull Off		Diagonal	
			K _x	K _y	K _x	K _y	K _x	K _y
162.527	No	No	1	1	1	1	1	1
132.178	No	No	1	1	1	1	1	1
82.5273	No	No	1	1	1	1	1	1
162.527	No	No	1	1	1	1	1	1

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Guy Elevation ft	Calc K Single Angles	Calc K Solid Rounds	Torque Arm		Pull Off		Diagonal	
			K _x	K _y	K _x	K _y	K _x	K _y
49.7656	No	No			1	1	1	1

Guy Data (cont'd)

Guy Elevation ft	Torque-Arm				Pull Off				Diagonal			
	Bolt Size in	Number	Net Width Deduct in	U	Bolt Size in	Number	Net Width Deduct in	U	Bolt Size in	Number	Net Width Deduct in	U
162.527	0.0000 A325N	0	0.0000	1	0.6250 A325N	0	0.0000	0.75	0.6250 A325N	0	0.0000	0.75
132.178	0.0000 A325X	0	0.0000	1	0.6250 A325N	0	0.0000	0.75	0.6250 A325N	0	0.0000	0.75
82.5273	0.0000 A325X	0	0.0000	1	0.6250 A325N	0	0.0000	0.75	0.6250 A325N	0	0.0000	0.75
162.527	0.0000 A325X	0	0.0000	1	0.6250 A325N	0	0.0000	0.75	0.6250 A325N	0	0.0000	0.75
49.7656	0.0000 A325X	0	0.0000	1	0.6250 A325N	0	0.0000	0.75	0.6250 A325N	0	0.0000	0.75

Guy Pressures

Guy Elevation ft	Guy Location	z ft	q _s psf	q _i Ice psf	Ice Thickness in
162.527	A	81.26	29	7	1.6415
	B	81.26	29	7	1.6415
	C	81.26	29	7	1.6415
132.178	A	66.09	28	6	1.6079
	B	66.09	28	6	1.6079
	C	66.09	28	6	1.6079
82.5273	A	41.26	25	6	1.5339
	B	41.26	25	6	1.5339
	C	41.26	25	6	1.5339
162.527	A	81.26	29	7	1.6415
	B	81.26	29	7	1.6415
	C	81.26	29	7	1.6415
49.7656	A	24.88	23	5	1.4582
	B	24.88	23	5	1.4582
	C	24.88	23	5	1.4582

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)	B	No	No	Ar (CaAa)	152.00 - 7.00	0.0000	-0.15	6	6	0.5000	1.9800		0.82

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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)	B	No	No	Ar (CaAa)	136.00 - 7.00	0.0000	0.15	3	3	0.5000	1.9800		0.82
LDF7-50A (1-5/8 FOAM)	B	No	No	Ar (CaAa)	136.00 - 7.00	0.0000	0.28	3	3	0.5000	1.9800		0.82
LDF7-50A (1-5/8 FOAM)	A	No	No	Ar (CaAa)	120.00 - 7.00	0.0000	0	12	6	0.5000	1.9800		0.82
LDF4-50A (1/2 FOAM)	A	No	No	Ar (CaAa)	98.00 - 7.00	0.0000	0.4	1	1	0.5000	0.6300	0.6300	0.15
LDF6-50A (1-1/4 FOAM)	A	No	No	Ar (CaAa)	177.00 - 7.00	0.0000	0.15	1	1	0.5000	1.5500		0.66
LDF6-50A (1-1/4 FOAM)	A	No	No	Ar (CaAa)	152.00 - 7.00	0.0000	0.15	4	4	0.5000	1.5500		0.66
LDF7-50A (1-5/8 FOAM)	A	No	No	Ar (CaAa)	180.00 - 7.00	0.0000	0	12	12	0.5000	1.9800		0.82
Safety Line 3/8	A	No	No	Ar (CaAa)	120.00 - 8.00	0.0000	0.5	1	1	0.3750	0.3750		0.22
FB-L98B-002-XXX(3/8")	A	No	No	Ar (CaAa)	180.00 - 2.00	0.0000	0.25	1	1	0.3937	0.3937		0.06
WR-VG122S T-BRDA(7/16')	A	No	No	Ar (CaAa)	180.00 - 7.00	2.0000	0.3	2	2	0.0000	0.4600	0.4600	0.14
6X12 Hybrid Fiber	B	No	No	Ar (CaAa)	136.00 - 7.00	0.0000	0	2	2	1.9800	0.5000		1.90

Feed Line/Linear Appurtenances Section Areas

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 K
T1	180.00-160.00	A	0.000	0.000	52.782	0.000	0.21
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.00
T2	160.00-140.00	A	0.000	0.000	60.687	0.000	0.25
		B	0.000	0.000	14.256	0.000	0.06
		C	0.000	0.000	0.000	0.000	0.00
T3	140.00-120.00	A	0.000	0.000	65.647	0.000	0.27
		B	0.000	0.000	44.368	0.000	0.24
		C	0.000	0.000	0.000	0.000	0.00
T4	120.00-100.00	A	0.000	0.000	113.917	0.000	0.47
		B	0.000	0.000	49.520	0.000	0.27
		C	0.000	0.000	0.000	0.000	0.00
T5	100.00-80.00	A	0.000	0.000	115.051	0.000	0.47
		B	0.000	0.000	49.520	0.000	0.27
		C	0.000	0.000	0.000	0.000	0.00
T6	80.00-60.00	A	0.000	0.000	115.177	0.000	0.47
		B	0.000	0.000	49.520	0.000	0.27
		C	0.000	0.000	0.000	0.000	0.00
T7	60.00-40.00	A	0.000	0.000	115.177	0.000	0.47
		B	0.000	0.000	49.520	0.000	0.27
		C	0.000	0.000	0.000	0.000	0.00
T8	40.00-20.00	A	0.000	0.000	115.177	0.000	0.47
		B	0.000	0.000	49.520	0.000	0.27
		C	0.000	0.000	0.000	0.000	0.00
T9	20.00-5.00	A	0.000	0.000	74.907	0.000	0.31
		B	0.000	0.000	32.188	0.000	0.18
		C	0.000	0.000	0.000	0.000	0.00

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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 K
T10	5.00-0.00	A	0.000	0.000	0.118	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.00

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft ²	A_F ft ²	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight K
T1	180.00-160.00	A	1.767	0.000	0.000	114.594	0.000	1.61
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.00
T2	160.00-140.00	A	1.745	0.000	0.000	134.072	0.000	1.85
		B		0.000	0.000	28.033	0.000	0.40
		C		0.000	0.000	0.000	0.000	0.00
T3	140.00-120.00	A	1.720	0.000	0.000	145.665	0.000	1.97
		B		0.000	0.000	108.479	0.000	1.44
		C		0.000	0.000	0.000	0.000	0.00
T4	120.00-100.00	A	1.692	0.000	0.000	200.948	0.000	2.98
		B		0.000	0.000	123.199	0.000	1.61
		C		0.000	0.000	0.000	0.000	0.00
T5	100.00-80.00	A	1.658	0.000	0.000	206.775	0.000	3.01
		B		0.000	0.000	122.306	0.000	1.58
		C		0.000	0.000	0.000	0.000	0.00
T6	80.00-60.00	A	1.617	0.000	0.000	205.837	0.000	2.96
		B		0.000	0.000	121.213	0.000	1.54
		C		0.000	0.000	0.000	0.000	0.00
T7	60.00-40.00	A	1.564	0.000	0.000	203.593	0.000	2.87
		B		0.000	0.000	119.794	0.000	1.50
		C		0.000	0.000	0.000	0.000	0.00
T8	40.00-20.00	A	1.486	0.000	0.000	200.330	0.000	2.75
		B		0.000	0.000	117.733	0.000	1.43
		C		0.000	0.000	0.000	0.000	0.00
T9	20.00-5.00	A	1.361	0.000	0.000	127.141	0.000	1.67
		B		0.000	0.000	74.391	0.000	0.86
		C		0.000	0.000	0.000	0.000	0.00
T10	5.00-0.00	A	1.159	0.000	0.000	0.813	0.000	0.01
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.00

Feed Line Center of Pressure

Section	Elevation ft	CP_x in	CP_z in	CP_x Ice in	CP_z Ice in
T1	180.00-160.00	-2.9275	-3.3329	-1.6024	-2.3931
T2	160.00-140.00	-3.1020	-5.4116	-1.8775	-4.0452
T3	140.00-120.00	-0.2153	-5.0868	0.0970	-3.8804
T4	120.00-100.00	-1.4229	-5.3955	-0.4561	-4.6627
T5	100.00-80.00	-1.4101	-5.4396	-0.4833	-4.7926
T6	80.00-60.00	-1.5215	-5.7224	-0.6809	-6.1860
T7	60.00-40.00	-1.4724	-5.6193	-0.6714	-6.0439
T8	40.00-20.00	-1.5215	-5.7224	-0.7188	-6.2163
T9	20.00-5.00	-1.4147	-5.4619	-0.7228	-5.9242

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Section	Elevation	CP _x	CP _z	CP _x Ice	CP _z Ice
	ft	in	in	in	in
T10	5.00-0.00	-0.0293	-0.0891	-0.0560	-0.1631

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T1	7	LDF6-50A (1-1/4 FOAM)	160.00 - 177.00	0.6000	0.3110
T1	9	LDF7-50A (1-5/8 FOAM)	160.00 - 180.00	0.6000	0.3110
T1	11	FB-L98B-002-XXX(3/8")	160.00 - 180.00	0.6000	0.3110
T1	12	WR-VG122ST-BRDA(7/16")	160.00 - 180.00	0.6000	0.3110
T2	1	LDF7-50A (1-5/8 FOAM)	140.00 - 152.00	0.6000	0.3702
T2	7	LDF6-50A (1-1/4 FOAM)	140.00 - 160.00	0.6000	0.3702
T2	8	LDF6-50A (1-1/4 FOAM)	140.00 - 152.00	0.6000	0.3702
T2	9	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.3702
T2	11	FB-L98B-002-XXX(3/8")	140.00 - 160.00	0.6000	0.3702
T2	12	WR-VG122ST-BRDA(7/16")	140.00 - 160.00	0.6000	0.3702
T3	1	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.3502
T3	3	LDF7-50A (1-5/8 FOAM)	120.00 - 136.00	0.6000	0.3502
T3	4	LDF7-50A (1-5/8 FOAM)	120.00 - 136.00	0.6000	0.3502
T3	7	LDF6-50A (1-1/4 FOAM)	120.00 - 140.00	0.6000	0.3502
T3	8	LDF6-50A (1-1/4 FOAM)	120.00 - 140.00	0.6000	0.3502
T3	9	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.3502
T3	11	FB-L98B-002-XXX(3/8")	120.00 - 140.00	0.6000	0.3502
T3	12	WR-VG122ST-BRDA(7/16")	120.00 - 140.00	0.6000	0.3502
T3	13	6X12 Hybrid Fiber	120.00 - 136.00	0.6000	0.3502
T4	1	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.3810
T4	3	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.3810
T4	4	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.3810
T4	5	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.3810
T4	7	LDF6-50A (1-1/4 FOAM)	100.00 - 120.00	0.6000	0.3810
T4	8	LDF6-50A (1-1/4 FOAM)	100.00 -	0.6000	0.3810

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
			120.00		
T4	9	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.3810
T4	10	Safety Linc 3/8	100.00 - 120.00	0.6000	0.3810
T4	11	FB-L98B-002-XXX(3/8")	100.00 - 120.00	0.6000	0.3810
T4	12	WR-VG122ST-BRDA(7/16")	100.00 - 120.00	0.6000	0.3810
T4	13	6X12 Hybrid Fiber	100.00 - 120.00	0.6000	0.3810
T5	1	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.3699
T5	3	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.3699
T5	4	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.3699
T5	5	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.3699
T5	6	LDF4-50A (1/2 FOAM)	80.00 - 98.00	0.6000	0.3699
T5	7	LDF6-50A (1-1/4 FOAM)	80.00 - 100.00	0.6000	0.3699
T5	8	LDF6-50A (1-1/4 FOAM)	80.00 - 100.00	0.6000	0.3699
T5	9	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.3699
T5	10	Safety Linc 3/8	80.00 - 100.00	0.6000	0.3699
T5	11	FB-L98B-002-XXX(3/8")	80.00 - 100.00	0.6000	0.3699
T5	12	WR-VG122ST-BRDA(7/16")	80.00 - 100.00	0.6000	0.3699
T5	13	6X12 Hybrid Fiber	80.00 - 100.00	0.6000	0.3699
T6	1	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.5526
T6	3	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.5526
T6	4	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.5526
T6	5	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.5526
T6	6	LDF4-50A (1/2 FOAM)	60.00 - 80.00	0.6000	0.5526
T6	7	LDF6-50A (1-1/4 FOAM)	60.00 - 80.00	0.6000	0.5526
T6	8	LDF6-50A (1-1/4 FOAM)	60.00 - 80.00	0.6000	0.5526
T6	9	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.5526
T6	10	Safety Linc 3/8	60.00 - 80.00	0.6000	0.5526
T6	11	FB-L98B-002-XXX(3/8")	60.00 - 80.00	0.6000	0.5526
T6	12	WR-VG122ST-BRDA(7/16")	60.00 - 80.00	0.6000	0.5526
T6	13	6X12 Hybrid Fiber	60.00 - 80.00	0.6000	0.5526
T7	1	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.5363
T7	3	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.5363
T7	4	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.5363
T7	5	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.5363
T7	6	LDF4-50A (1/2 FOAM)	40.00 - 60.00	0.6000	0.5363
T7	7	LDF6-50A (1-1/4 FOAM)	40.00 - 60.00	0.6000	0.5363
T7	8	LDF6-50A (1-1/4 FOAM)	40.00 - 60.00	0.6000	0.5363
T7	9	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.5363
T7	10	Safety Linc 3/8	40.00 - 60.00	0.6000	0.5363
T7	11	FB-L98B-002-XXX(3/8")	40.00 - 60.00	0.6000	0.5363
T7	12	WR-VG122ST-BRDA(7/16")	40.00 - 60.00	0.6000	0.5363
T7	13	6X12 Hybrid Fiber	40.00 - 60.00	0.6000	0.5363
T8	1	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.5718
T8	3	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.5718
T8	4	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.5718
T8	5	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.5718
T8	6	LDF4-50A (1/2 FOAM)	20.00 - 40.00	0.6000	0.5718
T8	7	LDF6-50A (1-1/4 FOAM)	20.00 - 40.00	0.6000	0.5718
T8	8	LDF6-50A (1-1/4 FOAM)	20.00 - 40.00	0.6000	0.5718
T8	9	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.5718
T8	10	Safety Linc 3/8	20.00 - 40.00	0.6000	0.5718
T8	11	FB-L98B-002-XXX(3/8")	20.00 - 40.00	0.6000	0.5718
T8	12	WR-VG122ST-BRDA(7/16")	20.00 - 40.00	0.6000	0.5718
T8	13	6X12 Hybrid Fiber	20.00 - 40.00	0.6000	0.5718
T9	1	LDF7-50A (1-5/8 FOAM)	7.00 - 20.00	0.6000	0.5743
T9	3	LDF7-50A (1-5/8 FOAM)	7.00 - 20.00	0.6000	0.5743
T9	4	LDF7-50A (1-5/8 FOAM)	7.00 - 20.00	0.6000	0.5743

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T9	5	LDF7-50A (1-5/8 FOAM)	7.00 - 20.00	0.6000	0.5743
T9	6	LDF4-50A (1/2 FOAM)	7.00 - 20.00	0.6000	0.5743
T9	7	LDF6-50A (1-1/4 FOAM)	7.00 - 20.00	0.6000	0.5743
T9	8	LDF6-50A (1-1/4 FOAM)	7.00 - 20.00	0.6000	0.5743
T9	9	LDF7-50A (1-5/8 FOAM)	7.00 - 20.00	0.6000	0.5743
T9	10	Safety Line 3/8	8.00 - 20.00	0.6000	0.5743
T9	11	FB-L98B-002-XXX(3/8")	5.00 - 20.00	0.6000	0.5743
T9	12	WR-VG122ST-BRDA(7/16")	7.00 - 20.00	0.6000	0.5743
T9	13	6X12 Hybrid Fiber	7.00 - 20.00	0.6000	0.5743
T10	11	FB-L98B-002-XXX(3/8")	2.00 - 5.00	0.5088	0.2433

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	$C_A A_A$ Front	$C_A A_A$ Side	Weight
			Horz Lateral	Vert					
Pirod 15' T-Frame Sector Mount (1)	A	From Leg	2.50	0.0000	179.00	No Ice	15.00	15.00	0.50
			0.00			1/2" Ice	20.60	20.60	0.65
			0.00			1" Ice	26.20	26.20	0.80
Pirod 15' T-Frame Sector Mount (1)	B	From Leg	2.50	0.0000	179.00	No Ice	15.00	15.00	0.50
			0.00			1/2" Ice	20.60	20.60	0.65
			0.00			1" Ice	26.20	26.20	0.80
Pirod 15' T-Frame Sector Mount (1)	C	From Leg	2.50	0.0000	179.00	No Ice	15.00	15.00	0.50
			0.00			1/2" Ice	20.60	20.60	0.65
			0.00			1" Ice	26.20	26.20	0.80
7770.00 w/ Mount Pipe	A	From Leg	4.50	0.0000	179.00	No Ice	5.75	4.25	0.06
			0.00			1/2" Ice	6.18	5.01	0.10
			1.00			1" Ice	6.61	5.71	0.16
7770.00 w/ Mount Pipe	B	From Leg	4.50	0.0000	179.00	No Ice	5.75	4.25	0.06
			0.00			1/2" Ice	6.18	5.01	0.10
			1.00			1" Ice	6.61	5.71	0.16
7770.00 w/ Mount Pipe	C	From Leg	4.50	0.0000	179.00	No Ice	5.75	4.25	0.06
			0.00			1/2" Ice	6.18	5.01	0.10
			1.00			1" Ice	6.61	5.71	0.16
P65-17-XLH-RR w/ Mount Pipe	A	From Leg	4.50	0.0000	179.00	No Ice	11.70	8.94	0.09
			0.00			1/2" Ice	12.42	10.45	0.18
			1.00			1" Ice	13.15	11.99	0.27
P65-17-XLH-RR w/ Mount Pipe	B	From Leg	4.50	0.0000	179.00	No Ice	11.70	8.94	0.09
			0.00			1/2" Ice	12.42	10.45	0.18
			1.00			1" Ice	13.15	11.99	0.27
SBNH-1D6565C w/ Mount Pipe	C	From Leg	4.50	0.0000	179.00	No Ice	11.68	9.84	0.09
			0.00			1/2" Ice	12.40	11.37	0.18
			1.00			1" Ice	13.14	12.91	0.28
DTMABP7819VG12A	A	From Leg	3.50	0.0000	179.00	No Ice	0.98	0.34	0.02
			0.00			1/2" Ice	1.10	0.42	0.03
			1.00			1" Ice	1.23	0.51	0.04
DTMABP7819VG12A	B	From Leg	3.50	0.0000	179.00	No Ice	0.98	0.34	0.02
			0.00			1/2" Ice	1.10	0.42	0.03
			1.00			1" Ice	1.23	0.51	0.04
DTMABP7819VG12A	C	From Leg	3.50	0.0000	179.00	No Ice	0.98	0.34	0.02
			0.00			1/2" Ice	1.10	0.42	0.03

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Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _{AA} Front ft ²	C _{SA} Side ft ²	Weight K
RRU-11	A	From Leg	1.00	0.0000	179.00	1" Ice	0.51	0.04
			3.50			No Ice	1.26	0.04
			0.00			1/2" Ice	1.41	0.06
RRU-11	B	From Leg	1.00	0.0000	179.00	1" Ice	1.57	0.08
			3.50			No Ice	1.26	0.04
			0.00			1/2" Ice	1.41	0.06
RRU-11	C	From Leg	1.00	0.0000	179.00	1" Ice	1.57	0.08
			3.50			No Ice	1.26	0.04
			0.00			1/2" Ice	1.41	0.06
DC6-48-60-18-8F	A	From Leg	1.00	0.0000	179.00	1" Ice	1.57	0.08
			1.00			No Ice	0.79	0.02
			0.00			1/2" Ice	1.27	0.04
TPA-65R-LCUUUU-H8 w/ Mount Pipe	A	From Leg	1.00	0.0000	179.00	1" Ice	1.45	0.05
			4.50			No Ice	10.96	0.11
			0.00			1/2" Ice	12.49	0.22
TPA-65R-LCUUUU-H8 w/ Mount Pipe	B	From Leg	1.00	0.0000	179.00	1" Ice	14.04	0.33
			4.50			No Ice	10.96	0.11
			0.00			1/2" Ice	12.49	0.22
TPA-65R-LCUUUU-H8 w/ Mount Pipe	C	From Leg	1.00	0.0000	179.00	1" Ice	14.04	0.33
			4.50			No Ice	10.96	0.11
			0.00			1/2" Ice	12.49	0.22
(2) DBC0061F1V51-2	A	From Leg	1.00	0.0000	179.00	1" Ice	14.95	0.33
			3.50			No Ice	0.41	0.03
			0.00			1/2" Ice	0.52	0.03
(2) DBC0061F1V51-2	B	From Leg	1.00	0.0000	179.00	1" Ice	0.59	0.04
			3.50			No Ice	0.41	0.03
			0.00			1/2" Ice	0.52	0.03
(2) DBC0061F1V51-2	C	From Leg	1.00	0.0000	179.00	1" Ice	0.59	0.04
			3.50			No Ice	0.41	0.03
			0.00			1/2" Ice	0.52	0.03
RRUS B25 4415	A	From Leg	1.00	0.0000	179.00	1" Ice	0.61	0.04
			3.50			No Ice	2.79	0.05
			0.00			1/2" Ice	3.00	0.07
RRUS B25 4415	B	From Leg	1.00	0.0000	179.00	1" Ice	1.50	0.10
			3.50			No Ice	2.79	0.05
			0.00			1/2" Ice	3.00	0.07
RRUS B25 4415	C	From Leg	1.00	0.0000	179.00	1" Ice	1.50	0.10
			3.50			No Ice	2.79	0.05
			0.00			1/2" Ice	3.00	0.07
152	A	From Leg	1.00	0.0000	152.00	1" Ice	3.21	0.10
			3.50			No Ice	2.79	0.05
			0.00			1/2" Ice	3.00	0.07
Pirod 15' T-Frame Sector Mount (1)	B	From Leg	2.00	0.0000	152.00	1" Ice	26.20	0.80
			0.00			No Ice	15.00	0.50
			0.00			1/2" Ice	20.60	0.65
Pirod 15' T-Frame Sector Mount (1)	C	From Leg	2.00	0.0000	152.00	1" Ice	26.20	0.80
			0.00			No Ice	15.00	0.50
			0.00			1/2" Ice	20.60	0.65
TD-RRH8x20-25	A	From Leg	2.00	0.0000	152.00	1" Ice	26.20	0.80
			0.00			No Ice	15.00	0.50
			0.00			1/2" Ice	20.60	0.65
(2) RRH 800	A	From Leg	3.50	0.0000	152.00	1" Ice	26.20	0.80
			1.00			No Ice	4.05	0.07
			0.00			1/2" Ice	4.30	0.10
RRH2X60-1900	A	From Leg	3.50	0.0000	152.00	1" Ice	4.56	0.13
			1.00			No Ice	1.72	0.05
			0.00			1/2" Ice	1.90	0.06
RRH2X60-1900	A	From Leg	-1.00	0.0000	152.00	1" Ice	1.76	0.08
			0.00			No Ice	2.07	0.08
			0.00			1/2" Ice	2.07	0.08
RRH2X60-1900	A	From Leg	3.50	0.0000	152.00	1" Ice	1.87	0.04
			1.00			No Ice	1.87	0.04
			0.00			1/2" Ice	1.87	0.04

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	Client	Verizon	Designed by	JHU

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _A A _A Front	C _A A _A Side	Weight
			Horz	Lateral					
			0.00			1/2" Ice	2.05	1.37	0.06
			0.00			1" Ice	2.24	1.52	0.08
NNVV-65B-R4 w/ Mount Pipe	A	From Leg	3.50	0.0000	152.00	No Ice	12.51	7.41	0.10
			-3.00			1/2" Ice	13.11	8.60	0.19
			0.00			1" Ice	13.67	9.50	0.29
APXVTM14-C-120 w/ Mount Pipe	A	From Leg	3.50	0.0000	152.00	No Ice	6.58	4.96	0.07
			3.00			1/2" Ice	7.03	5.75	0.13
			0.00			1" Ice	7.47	6.47	0.19
B									
TD-RRH8x20-25	B	From Leg	3.50	0.0000	152.00	No Ice	4.05	1.53	0.07
			1.00			1/2" Ice	4.30	1.71	0.10
			0.00			1" Ice	4.56	1.90	0.13
(2) RRH 800	B	From Leg	3.50	0.0000	152.00	No Ice	1.72	1.43	0.05
			-1.00			1/2" Ice	1.90	1.60	0.06
			0.00			1" Ice	2.07	1.76	0.08
RRH2X60-1900	B	From Leg	3.50	0.0000	152.00	No Ice	1.87	1.22	0.04
			0.00			1/2" Ice	2.05	1.37	0.06
			0.00			1" Ice	2.24	1.52	0.08
NNVV-65B-R4 w/ Mount Pipe	B	From Leg	3.50	0.0000	152.00	No Ice	12.51	7.41	0.10
			-3.00			1/2" Ice	13.11	8.60	0.19
			0.00			1" Ice	13.67	9.50	0.29
APXVTM14-C-120 w/ Mount Pipe	B	From Leg	3.50	0.0000	152.00	No Ice	6.58	4.96	0.07
			3.00			1/2" Ice	7.03	5.75	0.13
			0.00			1" Ice	7.47	6.47	0.19
C									
TD-RRH8x20-25	C	From Leg	3.50	0.0000	152.00	No Ice	4.05	1.53	0.07
			1.00			1/2" Ice	4.30	1.71	0.10
			0.00			1" Ice	4.56	1.90	0.13
(2) RRH 800	C	From Leg	3.50	0.0000	152.00	No Ice	1.72	1.43	0.05
			-1.00			1/2" Ice	1.90	1.60	0.06
			0.00			1" Ice	2.07	1.76	0.08
RRH2X60-1900	C	From Leg	3.50	0.0000	152.00	No Ice	1.87	1.22	0.04
			0.00			1/2" Ice	2.05	1.37	0.06
			0.00			1" Ice	2.24	1.52	0.08
NNVV-65B-R4 w/ Mount Pipe	C	From Leg	3.50	0.0000	152.00	No Ice	12.51	7.41	0.10
			-3.00			1/2" Ice	13.11	8.60	0.19
			0.00			1" Ice	13.67	9.50	0.29
APXVTM14-C-120 w/ Mount Pipe	C	From Leg	3.50	0.0000	152.00	No Ice	6.58	4.96	0.07
			3.00			1/2" Ice	7.03	5.75	0.13
			0.00			1" Ice	7.47	6.47	0.19
136									
LPA-80080/4CF w/ Mount Pipe	A	From Leg	3.00	0.0000	136.00	No Ice	2.86	6.57	0.03
			-6.00			1/2" Ice	3.22	7.19	0.08
			0.00			1" Ice	3.59	7.84	0.13
LPA-80080/4CF w/ Mount Pipe	A	From Leg	3.00	0.0000	136.00	No Ice	2.86	6.57	0.03
			-3.00			1/2" Ice	3.22	7.19	0.08
			0.00			1" Ice	3.59	7.84	0.13
B									
LPA-80080/4CF w/ Mount Pipe	B	From Leg	3.00	0.0000	136.00	No Ice	2.86	6.57	0.03
			-6.00			1/2" Ice	3.22	7.19	0.08
			0.00			1" Ice	3.59	7.84	0.13
LPA-80080/4CF w/ Mount Pipe	B	From Leg	3.00	0.0000	136.00	No Ice	2.86	6.57	0.03
			-3.00			1/2" Ice	3.22	7.19	0.08
			0.00			1" Ice	3.59	7.84	0.13
C									
LPA-80080/4CF w/ Mount Pipe	C	From Leg	3.00	0.0000	136.00	No Ice	2.86	6.57	0.03
			-6.00			1/2" Ice	3.22	7.19	0.08

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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _A A _A Front	C _A A _S Side	Weight	
			Horz	Vert						ft
			Lateral		°	ft	ft ²	ft ²	K	
LPA-80080/4CF w/ Mount Pipe	C	From Leg	0.00		0.0000	136.00	1" Ice	3.59	7.84	0.13
			3.00				No Ice	2.86	6.57	0.03
			-6.00				1/2" Ice	3.22	7.19	0.08
			0.00				1" Ice	3.59	7.84	0.13
120										
Pirod 4' Side Mount Standoff (1)	A	From Leg	2.00		0.0000	120.00	No Ice	2.72	2.72	0.05
			0.00				1/2" Ice	4.91	4.91	0.09
			0.00				1" Ice	7.10	7.10	0.13
Pirod 4' Side Mount Standoff (1)	B	From Leg	2.00		0.0000	120.00	No Ice	2.72	2.72	0.05
			0.00				1/2" Ice	4.91	4.91	0.09
			0.00				1" Ice	7.10	7.10	0.13
Pirod 4' Side Mount Standoff (1)	C	From Leg	2.00		0.0000	120.00	No Ice	2.72	2.72	0.05
			0.00				1/2" Ice	4.91	4.91	0.09
			0.00				1" Ice	7.10	7.10	0.13
AIR 21 B4A/B2P w/ Mount Pipe	A	From Leg	4.00		0.0000	120.00	No Ice	6.16	5.55	0.10
			1.50				1/2" Ice	6.60	6.30	0.16
			0.00				1" Ice	7.03	7.00	0.22
KRC 118 057/1 w/ Mount Pipe	A	From Leg	4.00		0.0000	120.00	No Ice	8.86	7.72	0.17
			-1.50				1/2" Ice	9.36	8.62	0.24
			0.00				1" Ice	9.84	9.39	0.33
RRU-11	A	From Leg	3.50		0.0000	120.00	No Ice	1.64	1.26	0.04
			0.00				1/2" Ice	1.80	1.41	0.06
			1.00				1" Ice	1.97	1.57	0.08
Gen. TMA	A	From Leg	3.00		0.0000	120.00	No Ice	1.03	0.39	0.02
			0.00				1/2" Ice	1.15	0.48	0.02
			0.00				1" Ice	1.29	0.58	0.03
B										
AIR 21 B4A/B2P w/ Mount Pipe	B	From Leg	4.00		0.0000	120.00	No Ice	6.16	5.55	0.10
			1.50				1/2" Ice	6.60	6.30	0.16
			0.00				1" Ice	7.03	7.00	0.22
KRC 118 057/1 w/ Mount Pipe	B	From Leg	4.00		0.0000	120.00	No Ice	8.86	7.72	0.17
			-1.50				1/2" Ice	9.36	8.62	0.24
			0.00				1" Ice	9.84	9.39	0.33
RRU-11	B	From Leg	3.50		0.0000	120.00	No Ice	1.64	1.26	0.04
			0.00				1/2" Ice	1.80	1.41	0.06
			1.00				1" Ice	1.97	1.57	0.08
Gen. TMA	B	From Leg	3.00		0.0000	120.00	No Ice	1.03	0.39	0.02
			0.00				1/2" Ice	1.15	0.48	0.02
			0.00				1" Ice	1.29	0.58	0.03
C										
AIR 21 B4A/B2P w/ Mount Pipe	C	From Leg	4.00		0.0000	120.00	No Ice	6.16	5.55	0.10
			1.50				1/2" Ice	6.60	6.30	0.16
			0.00				1" Ice	7.03	7.00	0.22
KRC 118 057/1 w/ Mount Pipe	C	From Leg	4.00		0.0000	120.00	No Ice	8.86	7.72	0.17
			-1.50				1/2" Ice	9.36	8.62	0.24
			0.00				1" Ice	9.84	9.39	0.33
RRU-11	C	From Leg	3.50		0.0000	120.00	No Ice	1.64	1.26	0.04
			0.00				1/2" Ice	1.80	1.41	0.06
			1.00				1" Ice	1.97	1.57	0.08
Gen. TMA	C	From Leg	3.00		0.0000	120.00	No Ice	1.03	0.39	0.02
			0.00				1/2" Ice	1.15	0.48	0.02
			0.00				1" Ice	1.29	0.58	0.03
98										
8" x 1" Stand Off	A	From Leg	0.50		0.0000	98.00	No Ice	0.09	0.01	0.00
			0.00				1/2" Ice	0.18	0.01	0.00
			0.00				1" Ice	0.27	0.01	0.00
GPS_A	A	From Leg	1.00		0.0000	98.00	No Ice	0.26	0.26	0.00

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Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _A A ₁ Front ft ²	C _A A ₁ Side ft ²	Weight K	
			0.00		1/2" Ice	0.32	0.32	0.00	
			0.00		1" Ice	0.39	0.39	0.01	
136 Proposed									
Sector Mount [SM 1304-3]	A	From Leg	2.00	0.0000	136.00	No Ice	51.00	51.00	1.56
			0.00			1/2" Ice	69.20	69.20	2.65
			0.00			1" Ice	87.40	87.40	3.74
B2/B66A	A	From Leg	3.00	0.0000	136.00	No Ice	2.58	1.63	0.07
			-3.00			1/2" Ice	2.79	1.81	0.09
			0.00			1" Ice	3.01	2.00	0.11
B5/B13	A	From Leg	3.00	0.0000	136.00	No Ice	2.16	1.62	0.06
			-3.00			1/2" Ice	2.35	1.79	0.08
			0.00			1" Ice	2.55	1.97	0.10
(2) QS6656-5D w/ Mount Pipe	A	From Leg	3.00	0.0000	136.00	No Ice	8.37	8.46	0.11
			-6.00			1/2" Ice	8.93	9.66	0.19
			0.00			1" Ice	9.46	10.55	0.27
B									
B2/B66A	B	From Leg	3.00	0.0000	136.00	No Ice	2.58	1.63	0.07
			-3.00			1/2" Ice	2.79	1.81	0.09
			0.00			1" Ice	3.01	2.00	0.11
B5/B13	B	From Leg	3.00	0.0000	136.00	No Ice	2.16	1.62	0.06
			-3.00			1/2" Ice	2.35	1.79	0.08
			0.00			1" Ice	2.55	1.97	0.10
(2) QS6656-5D w/ Mount Pipe	B	From Leg	3.00	0.0000	136.00	No Ice	8.37	8.46	0.11
			-6.00			1/2" Ice	8.93	9.66	0.19
			0.00			1" Ice	9.46	10.55	0.27
C									
B2/B66A	C	From Leg	3.00	0.0000	136.00	No Ice	2.58	1.63	0.07
			-3.00			1/2" Ice	2.79	1.81	0.09
			0.00			1" Ice	3.01	2.00	0.11
B5/B13	C	From Leg	3.00	0.0000	136.00	No Ice	2.16	1.62	0.06
			-3.00			1/2" Ice	2.35	1.79	0.08
			0.00			1" Ice	2.55	1.97	0.10
(2) QS6656-5D w/ Mount Pipe	C	From Leg	3.00	0.0000	136.00	No Ice	8.37	8.46	0.11
			3.00			1/2" Ice	8.93	9.66	0.19
			0.00			1" Ice	9.46	10.55	0.27

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	∅P _{allow} K	% Capacity	Pass Fail
T1	180 - 160	Lcg	ROHN 2.5 X STR	2	-45.07	101.57	44.4	Pass
T2	160 - 140	Lcg	ROHN 2.5 X STR	59	-41.17	101.57	40.5	Pass
T3	140 - 120	Lcg	ROHN 2.5 X STR	115	-62.40	100.86	61.9	Pass
T4	120 - 100	Lcg	ROHN 2.5 X STR	172	-62.85	100.85	62.3	Pass
T5	100 - 80	Lcg	ROHN 2.5 X STR	231	-56.32	100.56	56.0	Pass
T6	80 - 60	Lcg	ROHN 2.5 X STR	288	-55.39	81.62	67.9	Pass
T7	60 - 40	Lcg	ROHN 2.5 X STR	319	-55.60	81.62	68.1	Pass
T8	40 - 20	Lcg	ROHN 2.5 X STR	352	-59.69	81.62	73.1	Pass
T9	20 - 5	Lcg	ROHN 2.5 X STR	385	-59.89	82.19	72.9	Pass
T10	5 - 0	Lcg	ROHN 2.5 X STR	414	-63.59	99.33	64.0	Pass
T1	180 - 160	Diagonal	L2x2x1/4	14	-9.44	25.15	37.5	Pass

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Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
T2	160 - 140	Diagonal	ROHN TS 1.5 x 11Ga	113	-7.60	17.05	44.6	Pass
T3	140 - 120	Diagonal	ROHN TS 1.5 x 16Ga	170	-4.45	8.99	49.5	Pass
T4	120 - 100	Diagonal	ROHN TS 1.5 x 11Ga	183	-3.36	17.05	19.7	Pass
T5	100 - 80	Diagonal	ROHN TS 1.5 x 16Ga	246	-4.04	8.99	44.9	Pass
T6	80 - 60	Diagonal	ROHN TS 1.5 x 11Ga	316	-3.93	11.22	35.0	Pass
T7	60 - 40	Diagonal	ROHN TS 1.5 x 16Ga	328	-5.19	6.11	85.0	Pass
T8	40 - 20	Diagonal	ROHN TS 1.5 x 16Ga	382	-4.81	6.11	78.8	Pass
T9	20 - 5	Diagonal	ROHN TS 1.5 x 16Ga	396	-4.36	6.13	71.1	Pass
T10	5 - 0	Horizontal	L4x4x1/4	420	-0.29	49.31	25.7	Pass
T1	180 - 160	Top Girt	L2x2x1/4	6	-0.71	16.30	4.3	Pass
T2	160 - 140	Top Girt	ROHN TS 1.5 x 11Ga	63	-1.36	13.50	10.0	Pass
T3	140 - 120	Top Girt	ROHN TS 1.5 x 16Ga	118	0.33	10.23	3.2	Pass
T4	120 - 100	Top Girt	ROHN TS 1.5 x 11Ga	177	1.05	19.61	5.3	Pass
T5	100 - 80	Top Girt	ROHN TS 1.5 x 16Ga	234	0.84	10.23	8.2	Pass
T6	80 - 60	Top Girt	ROHN TS 1.5 x 11Ga	289	-1.46	13.50	10.8	Pass
T7	60 - 40	Top Girt	ROHN TS 1.5 x 16Ga	324	-0.77	7.25	10.6	Pass
T8	40 - 20	Top Girt	ROHN TS 1.5 x 16Ga	355	-1.35	7.25	18.6	Pass
T9	20 - 5	Top Girt	ROHN TS 1.5 x 16Ga	390	-0.97	7.25	13.3	Pass
T10	5 - 0	Top Girt	L4x4x1/4	417	3.15	62.86	5.0	Pass
T1	180 - 160	Bottom Girt	L2x2x1/4	9	1.93	30.39	6.3	Pass
T2	160 - 140	Bottom Girt	ROHN TS 1.5 x 11Ga	66	0.71	19.61	3.6	Pass
T3	140 - 120	Bottom Girt	ROHN TS 1.5 x 16Ga	123	0.64	10.23	6.3	Pass
T4	120 - 100	Bottom Girt	ROHN TS 1.5 x 11Ga	180	0.76	19.61	3.9	Pass
T5	100 - 80	Bottom Girt	ROHN TS 1.5 x 16Ga	235	0.74	10.23	7.2	Pass
T6	80 - 60	Bottom Girt	ROHN TS 1.5 x 11Ga	293	-0.63	13.50	4.7	Pass
T7	60 - 40	Bottom Girt	ROHN TS 1.5 x 16Ga	325	-1.36	7.25	18.8	Pass
T8	40 - 20	Bottom Girt	ROHN TS 1.5 x 16Ga	360	-0.88	7.25	12.2	Pass
T9	20 - 5	Bottom Girt	L3x3x1/2	392	11.01	89.10	12.4	Pass
T1	180 - 160	Guy A@162.527	1/2	435	9.02	16.14	55.9	Pass
		Guy A@162.527	7/8	456	24.73	47.82	51.7	Pass
T3	140 - 120	Guy A@132.178	9/16	444	14.89	21.00	70.9	Pass
T5	100 - 80	Guy A@82.5273	3/4	450	19.61	34.98	56.1	Pass
T7	60 - 40	Guy A@49.7656	1/2	462	8.40	16.14	52.0	Pass
T1	180 - 160	Guy B@162.527	1/2	432	10.46	16.14	64.8	Pass
		Guy B@162.527	7/8	455	25.41	47.82	53.1	Pass
T3	140 - 120	Guy B@132.178	9/16	443	15.86	21.00	75.5	Pass
T5	100 - 80	Guy B@82.5273	3/4	449	22.59	34.98	64.6	Pass
T7	60 - 40	Guy B@49.7656	1/2	461	10.05	16.14	62.3	Pass
T1	180 - 160	Guy C@162.527	1/2	427	10.44	16.14	64.7	Pass
		Guy C@162.527	7/8	451	25.36	47.82	53.0	Pass
T3	140 - 120	Guy C@132.178	9/16	439	15.87	21.00	75.6	Pass
T5	100 - 80	Guy C@82.5273	3/4	445	22.63	34.98	64.7	Pass
T7	60 - 40	Guy C@49.7656	1/2	457	10.06	16.14	62.4	Pass
T1	180 - 160	Top Guy	2L2x2x1/4x3/8	454	9.08	60.91	14.9	Pass
		Pull-Off@162.527						
T3	140 - 120	Top Guy	4X3/8	442	6.01	48.60	12.4	Pass
		Pull-Off@132.178						
T5	100 - 80	Top Guy	2L2x2x1/4x3/8	448	8.51	60.91	14.0	Pass
		Pull-Off@82.5273						
T7	60 - 40	Top Guy	4X3/8	459	5.62	48.60	11.6	Pass
		Pull-Off@49.7656						
T1	180 - 160	Torque Arm	C12x20.7	437	-2.76	173.45	31.4	Pass
		Top@162.527						
							Summary	
						Leg (T8)	73.1	Pass
						Diagonal (T7)	85.0	Pass
						Horizontal (T10)	25.7	Pass
						Top Girt (T8)	18.6	Pass

tnxTower Nexius Solutions, Inc. 2595 North Dallas Parkway Suite 300 Frisco, TX 75034 Phone: 972-581-9888 FAX:	Job VZW467124A01-NX062(SA)	Page 20 of 20
	Project VZW11509-N_Stonington_2_CT	Date 13:02:05 05/23/19
	Client Verizon	Designed by JHU

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	$\emptyset P_{allow}$ K	% Capacity	Pass Fail
						Bottom Girt (T7)	18.8	Pass
						Guy A (T3)	70.9	Pass
						Guy B (T3)	75.5	Pass
						Guy C (T3)	75.6	Pass
						Top Guy Pull-Off (T1)	14.9	Pass
						Torque Arm Top (T1)	31.4	Pass
						RATING =	85.0	Pass

Program Version 8.0.5.0 - 11/28/2018
File:C:/Users/jiazhu.hu/Documents/Projects/Verizon/CT_Market/N_Stonington_2_CT/NX062(SA)/tnxTower/N_Stonington_2_CT.cri



Mount Analysis Report

Property Owner N/A
Structural Type 180 ft Guy Tower
Site Address 227 Boom Bridge Rd, Pawcatuck, New
London County, CT 06379
Site ID N/A
Site Name N/A
Latitude 41.428988
Longitude -71.80868

Client **Verizon Wireless**
118 Flanders Road, 3rd Floor
Westborough, MA 01581
Site Type MACRO
Site ID N/A
Site Name N_STONINGTON_2_CT
Location Code 467124
Mount Type 15 ft T-Frame Mounts
Elevation(s) 136 ft AGL

Prepared by Nexius Solutions, Inc.
2595 North Dallas Parkway Suite 300
Frisco, TX 75034
Job/Task Numbers VZW467124A01-NX064
Email structurals@nexius.com
Phone 972-581-9888
Date 05/23/2019
Result **FAIL (212 %)**
Replacement Recommended

NEXIUS

Dear Sir / Madam:

Nexius Solutions is pleased to submit this analysis to determine the structural integrity of the referred structure.

Referenced documents used for this analysis are listed in the section DOCUMENTS & REFERENCES. This analysis has been performed in compliance with

- the *2018 Connecticut State Building Code (IBC 2015) and*
- *ANSI/TIA-222-G w/ Addendum-2, Structural Standard for Antenna Supporting Structures and Antennas.*

Detailed design parameters are listed in Table 1. Analysis loading is detailed in Table 2

Based on our analysis we have determined the following result:

Antenna mounting Structure

**In Sufficient (212 %)
Replacement Recommended**

Nexius Solutions appreciates the opportunity of providing continued engineering services. Should you have any questions, comments or require additional information, please do not hesitate to contact us.

Sincerely,

Prepared by:

Akshay Doddamani
Structural Engineer

Approved by:

Jiazhu Hu, P.E.
Engineering Manager
License #: 31530



Digitally signed by Jiazhu Hu, Ph.D., P.E.
DN: cn=Jiazhu Hu, Ph.D., P.E., o=Nexius,
ou=Engineering,
email=Jiazhu.Hu@Nexius.com, c=US
Date: 2019.05.23 13:53:25 -04'00'



DOCUMENTS & REFERENCES

- Construction Drawings (FOR CONSTRUCTION), Verizon Location Code: 467124, Site Name: N_STONINGTON_2_CT, by Nexius, dated 05/23/2019.
- Mount Mapping, Verizon Location Code: 467124, Site Name: N_STONINGTON_2_CT, by Nexius, dated 04/30/2019.
- RFDS, Site Name: N_STONINGTON_2_CT, by Verizon Wireless, dated 01/08/2019.

DESIGN STANDARDS & PARAMETERS

TABLE 1 STANDARDS & DESIGN PARAMETERS

Codes and Standards	
Building Code	2018 Connecticut State Building Code (2015 IBC w/ State Amendments)
TIA Standard	ANSI/TIA-222-G w/ Addendums
Wind Parameters	
Ultimate Wind Speed	136 mph
Nominal Wind Speed	105 mph
Nominal Wind Speed with Ice	50 mph
Radial Ice Thickness	0.75 in
Exposure Category	C
Structure Class	II
Topographic Category	1
Seismic Design Parameters*	
S_s	0.161
S_1	0.058

* In accordance with Section 2.7.3 of TIA-222-G, seismic effects need not to be considered for site with S_s values less than 1, therefore no further seismic analysis is needed at this time.

RESULTS & RECOMMENDATIONS

Based on our analysis, it is determined that the existing antenna mounting structures to be **inadequate** to support the existing and proposed loading. It is recommended to replace the existing mounts with new **Sitepro1 VFA12-HD** sector mounts.

It is assumed the existing mounts are adequate for existing loading, with adequate capacities for both structural members and connections.

If the site conditions are different or do not meet requirements, the analysis result would not be valid and Nexius should be notified for re-evaluation.

TABLE 2 LOADING

Mount Elev. ft	Ant. Ctr. Elev. ft	Qty	Description	Carrier	Mount Type	Status
136	136	6	Quintel QS6656-5D	VERIZON WIRELESS	15 ft T-Frame Mounts	Proposed
		3	Samsung B2/B66A RRH-BR049			
		3	Samsung B5/B13 RRH-BR04C			
		1	RFS DB-C1-12C-24AB-0Z			Existing to Remain
		6	Antel LPA-80080/4CF (171502)			
		3	Amphenol BXA-70063-6CF			
		3	Unknown			
		6	RFS FD9R6004/2C-3L			

ANALYSIS

RISA-3D, a commercially available finite element method-based software package for structural analysis, was used to create a three-dimensional model of the structure and calculate member stresses for required loading cases. Selected output from the analysis is included in APPENDICES.



Standard Conditions for Providing Structural Consulting Services on Existing Structures

1. Mounting hardware is analyzed to the best of our ability using all information that is provided or can be obtained during fieldwork (if authorized by client). If the existing conditions are not as we have represented in this analysis, we should be contacted to evaluate the significance of the deviation and revise the assessment accordingly.
2. The structural analysis has been performed assuming that the hardware is in “like new” condition. No allowance was made for excessive corrosion, damaged or missing structural members, loose bolts, misaligned parts, or any reduction in strength due to the age or fatigue of the product.
3. The structural analysis provided is an assessment of the primary load carrying capacity of the hardware. We provided a limited scope of service. In some cases, we cannot verify the capacity of every weld, plate, connection detail, etc. In some cases, structural fabrication details are unknown at the time of our analysis, and the detailed field measurement of some of the required details may not be possible. In instances where we cannot perform connection capacity calculations, it is assumed that the existing manufactured connections develop the full capacity of the primary members being connected.
4. We cannot be held responsible for mounting hardware that is installed improperly or hardware that is loose or has a tendency of working loose over the lifetime of the mounting hardware. Our analysis has been performed assuming fully tightened connections, and proper installation and symmetry of the mounting hardware per manufacturer’s instructions.
5. The structural analysis has been performed using information currently provided by the client and potentially field verified. We have been provided with a mounting arrangement for all telecommunications equipment, including antennas RRH’s, TMA’s, RRU’s, diplexers, surge protection devices, etc. Our analysis has been based upon a particular mounting arrangement. We are not responsible for deviations in the mounting arrangements that may occur over time. If deviations in equipment type or mounting arrangements are proposed, then we should be contacted to revise the recommendations of this structural report.
6. We cannot be held responsible for temporary and unbalanced loads on mounting hardware. Our analysis is based on a particular mounting arrangement or as-build field condition. We are not responsible for the methods and means of how the mounting arrangement is accomplished by the contractor. These methods and means may include rigging of equipment or hardware to lift and locate, temporary hanging of equipment in locations other than the final arrangement, movement and tie off of tower riggers, personnel, and their equipment, etc.
7. Steel grade and strength is unknown and cannot be field tested. We cannot be held responsible for equipment manufactured from inferior steel or bolts. Our analysis assumes that standard structural grade steel has been used by the equipment manufacturer for all assembled parts of the mounting apparatus. Acceptable steels and connection components are specified by the American Institute of Steel Construction. It is assumed all welded connections are performed in the shop under the latest American
8. Welding Society Code. No field welds are permitted or assumed for the existing pre-manufactured equipment. In case no accurate info available, following material assumptions were used:

Channel, Solid Round, Angle, Plate	ASTM A36 (GR 36)
HSS (Rectangular)	ASTM 500 (GR B-46)
HSS (Round)	ASTM 500 (GR B-42)
Pipe	ASTM A53 (GR 35)
Connection Bolts	ASTM A325
U-Bolts	SAE 429 Gr.2

NEXIUS

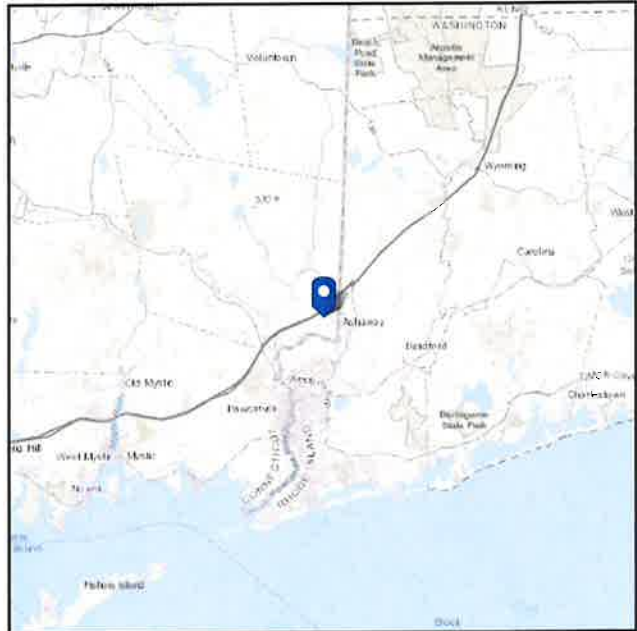
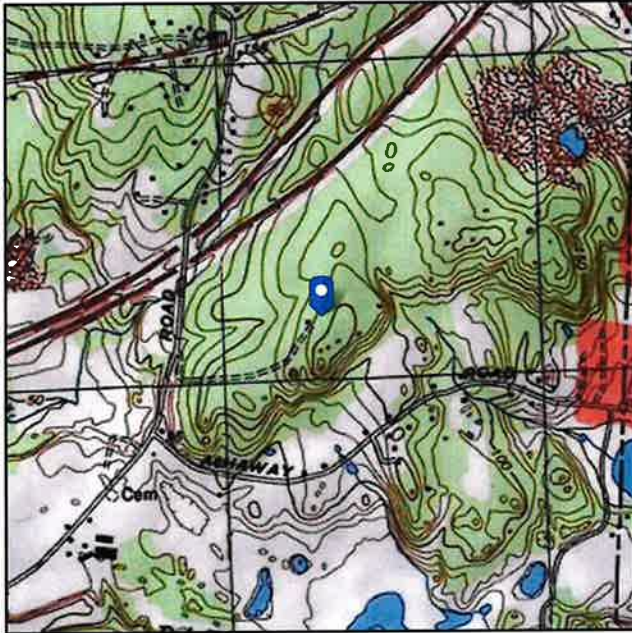
Appendix #1: Loading Parameters and Calculations

ASCE 7 Hazards Report

Address:
No Address at This
Location

Standard: ASCE/SEI 7-10
Risk Category: II
Soil Class: D - Stiff Soil

Elevation: 192.54 ft (NAVD 88)
Latitude: 41.428988
Longitude: -71.80868



Wind

Results:

Wind Speed:	136 Vmph
10-year MRI	80 Vmph
25-year MRI	90 Vmph
50-year MRI	100 Vmph
100-year MRI	110 Vmph

Data Source: ASCE/SEI 7-10, Fig. 26.5-1A and Figs. CC-1–CC-4, incorporating errata of March 12, 2014

Date Accessed: Tue May 07 2019

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-10 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

Site is in a hurricane-prone region as defined in ASCE/SEI 7-10 Section 26.2. Glazed openings need not be protected against wind-borne debris.

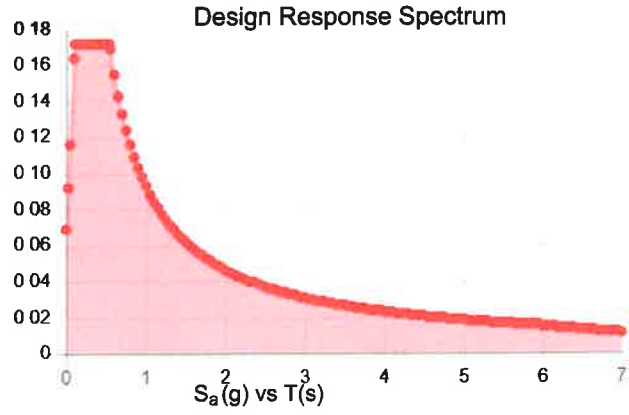
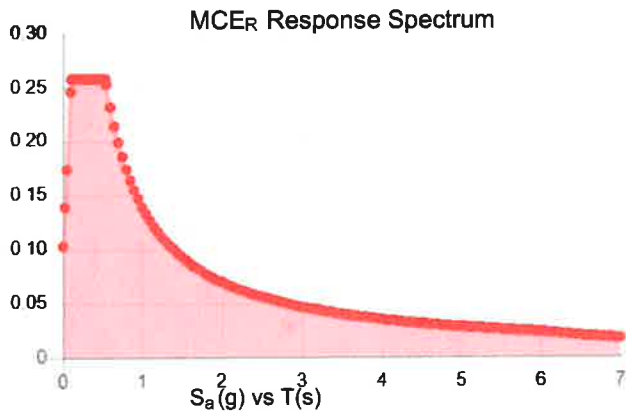
Mountainous terrain, gorges, ocean promontories, and special wind regions should be examined for unusual wind conditions.

Site Soil Class: D - Stiff Soil

Results:

S_s :	0.161	S_{DS} :	0.172
S_1 :	0.058	S_{D1} :	0.093
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.08
S_{MS} :	0.258	PGA_M :	0.129
S_{M1} :	0.139	F_{PGA} :	1.6
		I_e :	1

Seismic Design Category B



Data Accessed:

Tue May 07 2019

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-10, incorporating Supplement 1 and errata of March 31, 2013, and ASCE/SEI 7-10 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-10 Ch. 21 are available from USGS.



Ice

Results:

Ice Thickness: 0.75 in.
Concurrent Temperature: 15 F
Gust Speed: 50 mph

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

Date Accessed: Tue May 07 2019

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

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 50-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided "as is" and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE 7 standard.

In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE 7 Hazard Tool.



Mount Analysis Loading Calculations

Site Name	N_STONINGTON_2_CT
Site ID	VZW467124A01-NX064
Job Number	G
TIA 222 Code Rev.	

Legend	
Input	
Calculated	
Notes	

Controlling Capacity	>200.0	Maximum Capacity	
		FAIL	

Basic Parameters		
Mount Height	136	ft
Exposure Category	C	(B,C, or D)
Nominal Wind Speed	105.345147	mph
Ice Wind Speed	50	mph
Design Ice Thickness, t	0.75	in
Maintenance Wind Speed	30	mph
Run Earthquake Analysis?	No	

Wind Parameters	
Gust Effect Factor, G_e	1.000
K_t	1.350
K_z	2.652
K_d	1.000
K_e	0.950
I	1.000
q_s	36.443
C/D	prf. 2.696
q_h	122.412
q_u	1.728
C/D_u	prf. 2.696
$q_{u, maintenance}$	8.210
$C/D_{u, maintenance}$	58.100
$C/D_{u, maintenance}$	2.660
$C/D_{u, maintenance}$	34.860
Ice Dead, Grating	0.016129858
	ksf

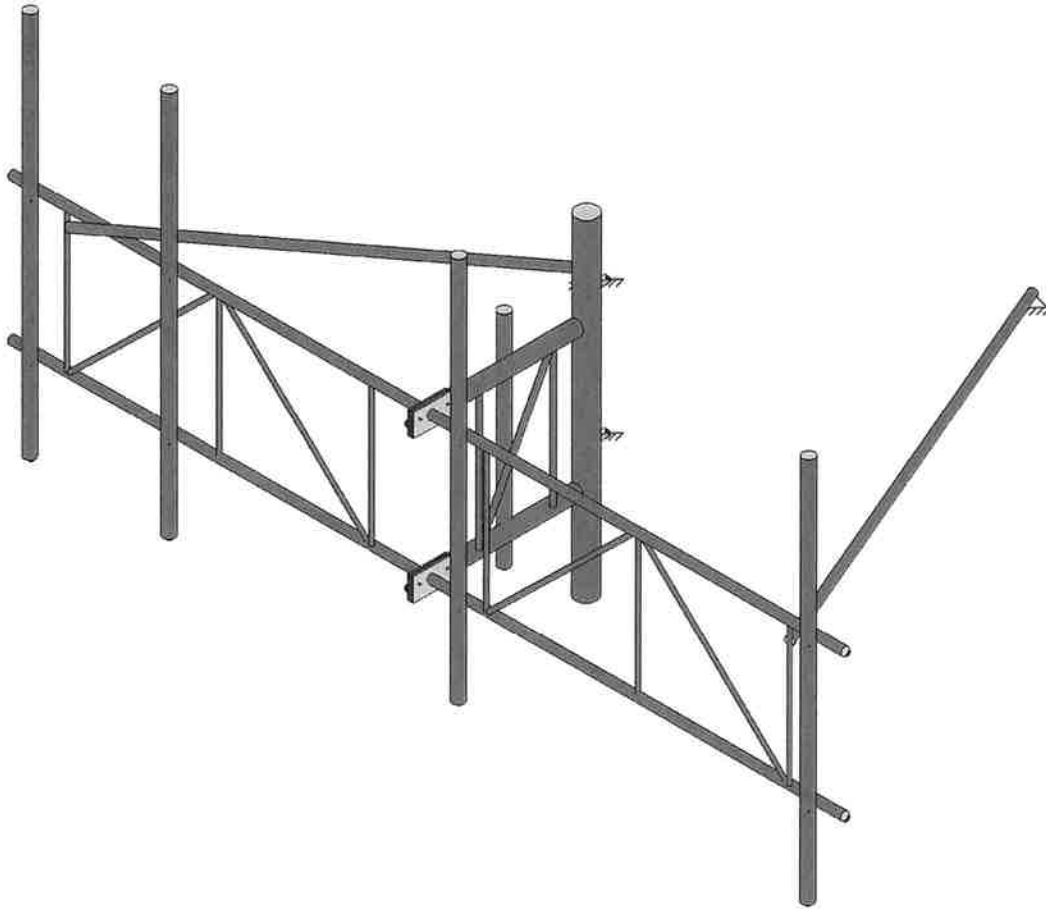
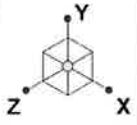
Mounting Pipes (Orientation Drawn Top-Down)			
Risa 3D Label	Elevation (ft)	Length (in)	Diameter (in)
M40	136	84	2.375
M43	136	84	2.375
M49	136	84	2.375
M59	136	48	2.375

Appearance					
Model	Type	Height (in)	Width (in)	Depth (in)	Weight (lbs)
QUINTEL OS6656-5D	Antenna	72	12	9.6	88
ANTEL LPA-80080/4CF	Antenna	47.2	5.5	13.2	12
SAMSUNG B5/B13 RRH BR04C	RRU, TMA, Etc.	15	15	8.1	82
SAMSUNG B2/B66A RRH BR049	RRU, TMA, Etc.	15	15	10	97.5
RFS DB-C1-12C-24AB-0Z	RRU, TMA, Etc.	12.6	16.5	29.5	92
RRH4X30-4R 850	RRU, TMA, Etc.	21.6	12	9	57.2

Pipe Mount	Antenna	Elevation (ft)	Quantity	Orientation (deg)	Front Exposed (%)	Side Exposed (%)	Type	Height (in)	Width (in)	Depth (in)	Weight (lbs)	Front CAAs (ft²)	Side CAAs (ft²)	Front F _x (kips)	Side F _x (kips)	Top %	Bottom %
M40	QUINTEL OS6656-5D	137	1	0	100.0%	100.0%	Antenna	72.000	12.000	9.600	88.000	8.133	6.800	0.296	0.248	0.0%	78.6%
M40	QUINTEL OS6656-5D	137	1	0	100.0%	0.0%	Antenna	72.000	12.000	9.600	88.000	8.133	6.800	0.296	0.000	0.0%	78.6%
M43	SAMSUNG B5/B13 RRH BR04C	139	1	0	100.0%	100.0%	RRU, TMA, Etc.	15.000	15.000	8.100	82.000	1.875	1.013	0.068	0.037	0.0%	18.1%
M43	SAMSUNG B2/B66A RRH BR049	137	1	0	100.0%	100.0%	RRU, TMA, Etc.	15.000	15.000	10.000	97.500	1.875	1.250	0.068	0.046	28.8%	44.0%
M49	ANTEL LPA-80080/4CF	138	1	0	100.0%	100.0%	Antenna	47.200	5.500	13.200	12.000	2.619	5.399	0.095	0.197	0.0%	49.5%
M46	ANTEL LPA-80080/4CF	138	1	0	100.0%	100.0%	Antenna	47.200	5.500	13.200	12.000	2.619	5.399	0.095	0.197	0.0%	49.5%
M59	RFS DB-C1-12C-24AB-0Z	137	1	120	100.0%	100.0%	RRU, TMA, Etc.	12.600	16.500	29.500	32.000	1.733	3.098	0.100	0.076	11.9%	38.1%

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Appendix #2: RISA-3D Output



Nexius

ADB

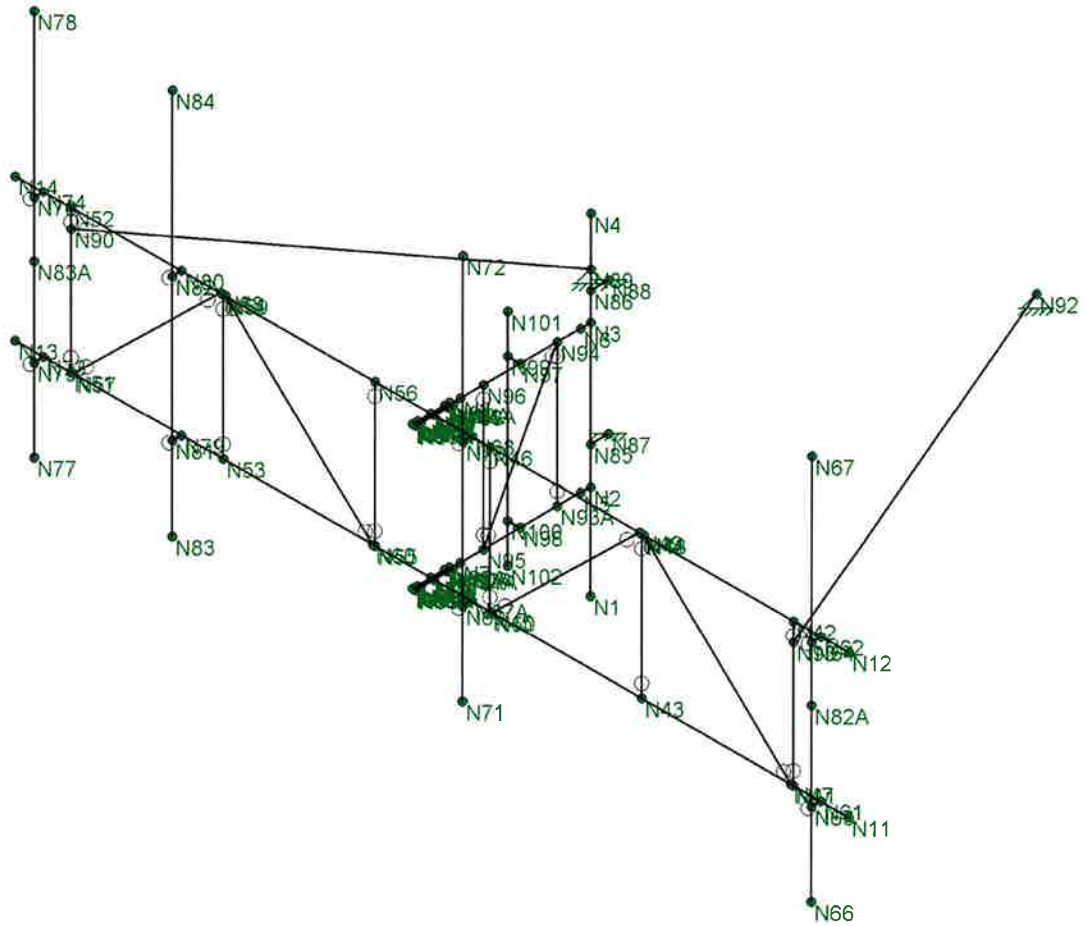
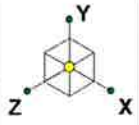
VZW467124A01-NX064

N_STONINGTON_2_CT

SK - 1

May 23, 2019 at 1:16 PM

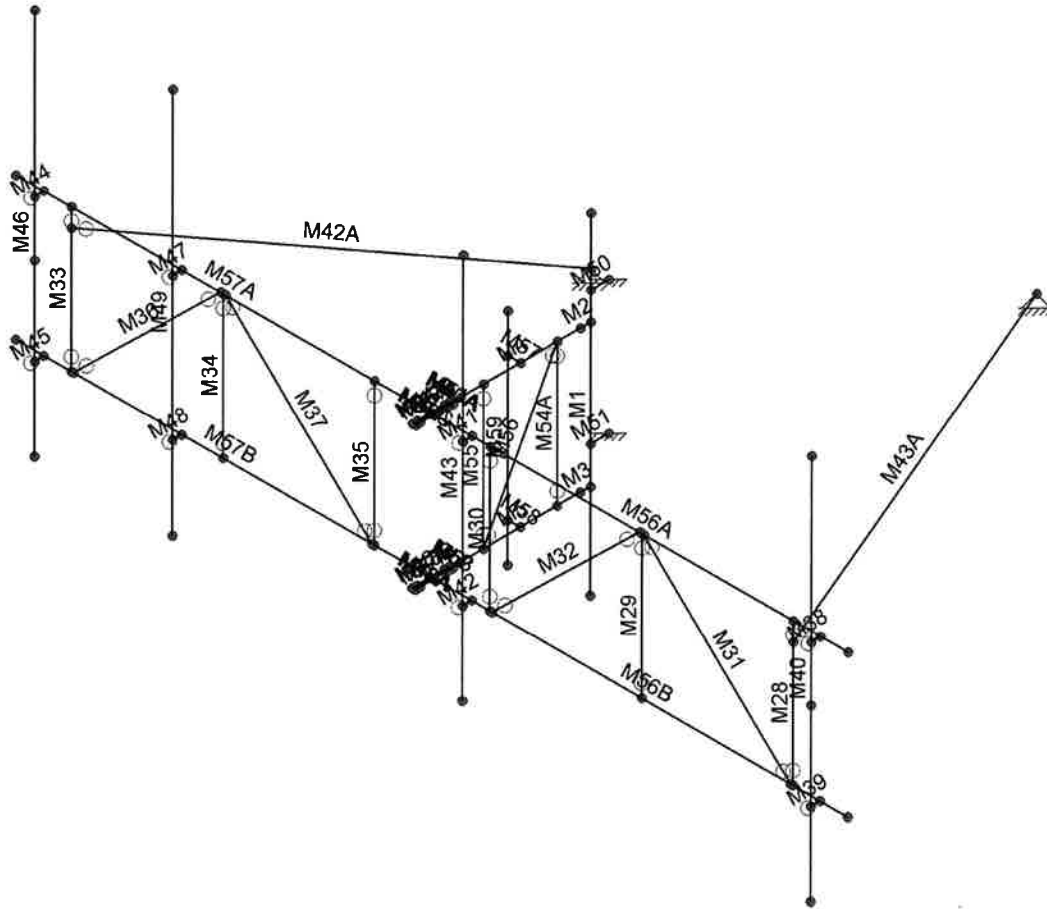
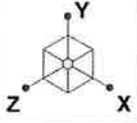
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Nexius
 ADB
 VZW467124A01-NX064

N_STONINGTON_2_CT

SK - 2
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 VZW467124A01-NX064(MA)_STO...



Nexius

ADB

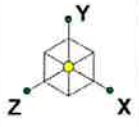
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N_STONINGTON_2_CT

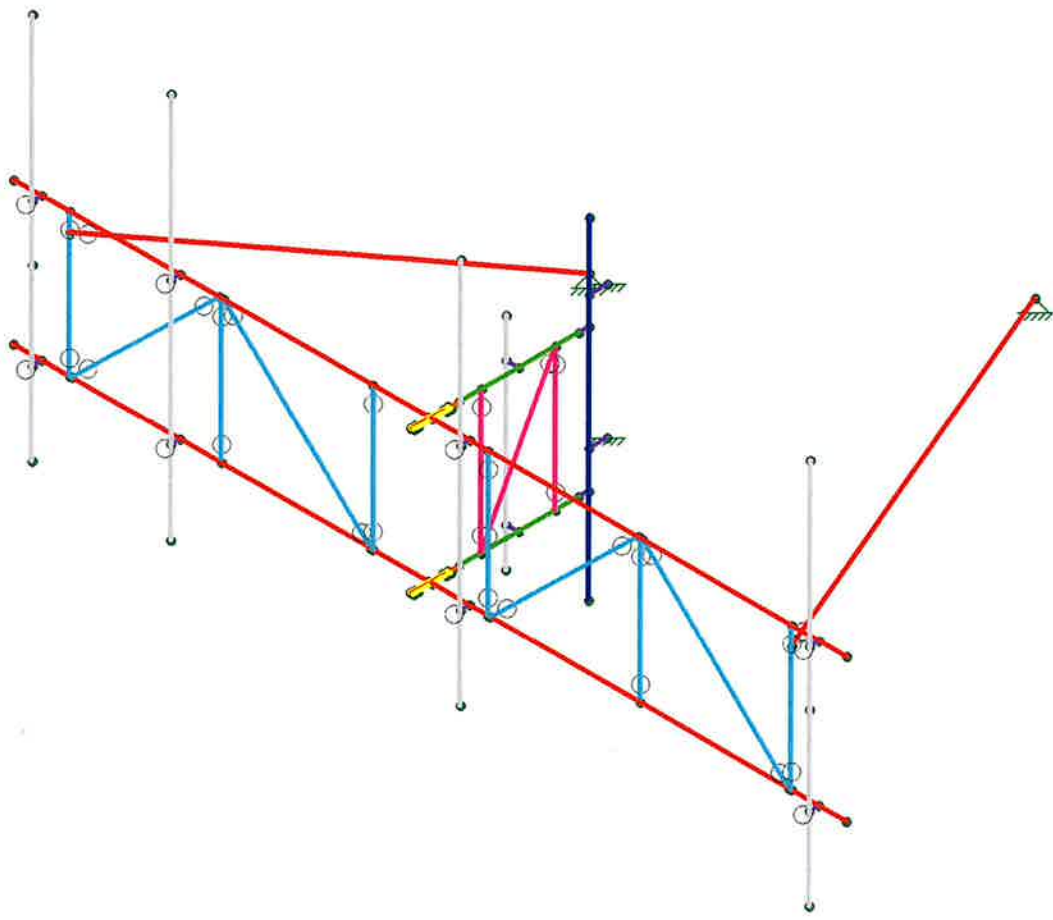
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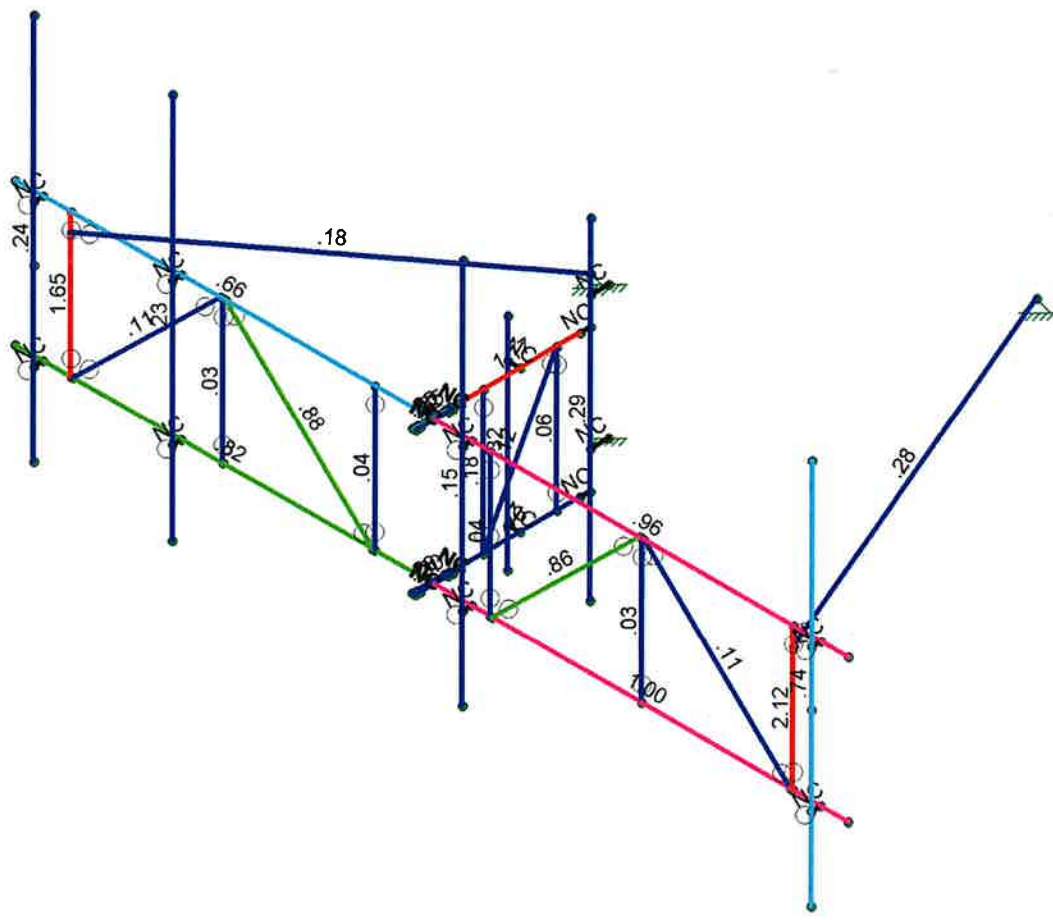
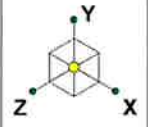
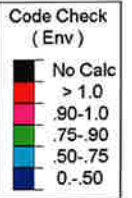
VZW467124A01-NX064(MA)_STO...



Section Sets	
█	Pipe STD 4" Dia
█	Pipe 3" Dia
█	Pipe STD 1.25" Dia
█	Pipe STD 2" Dia
█	SR 1"
█	SR 0.75"
█	Plate 1/2" thick
█	Plate 3/8"
█	RIGID

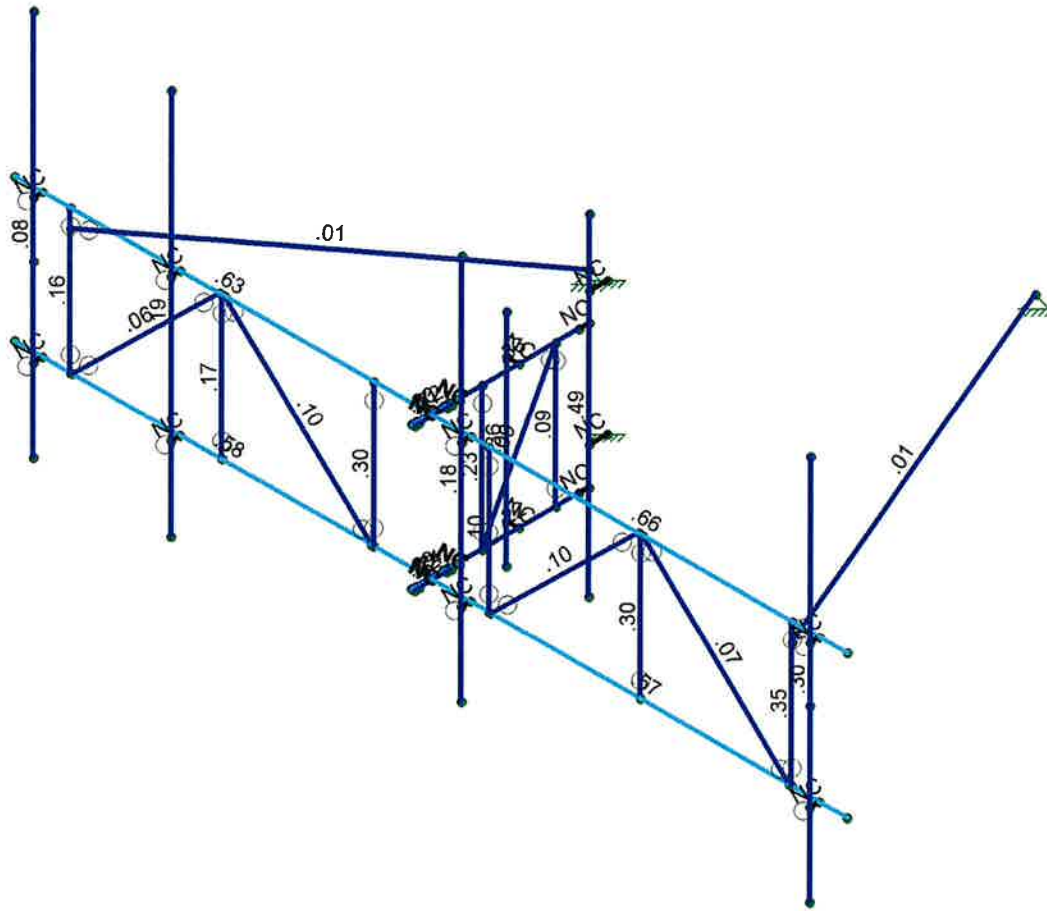
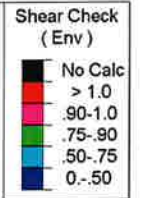
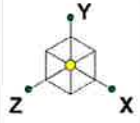


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Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Nexus	N_STONINGTON_2_CT	SK - 5
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VZW467124A01-NX064		VZW467124A01-NX064(MA)_STC...



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

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VZW467124A01-NX064		VZW467124A01-NX064(MA)_STO...



Company : Nexius
 Designer : ADB
 Job Number : VZW467124A01-NX064
 Model Name : N_STONINGTON_2_CT

May 23, 2019
 1:21 PM
 Checked By: Jiazhu Hu

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (11... Density[k/f...	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A992	29000	11154	.3	.65 .49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65 .49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65 .49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65 .527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	.3	.65 .527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	.3	.65 .49	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65 .49	50	1.4	65	1.3
8	A913 Gr.65	29000	11154	.3	.65 .49	65	1.1	80	1.1

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Pipe STD 4" Dia	PIPE 4.0	Column	Pipe	A500 Gr.B ...	Typical	2.96	6.82	6.82	13.6
2	Pipe 3" Dia	PIPE 3	Beam	Pipe	A500 Gr.B ...	Typical	1.657	1.645	1.645	3.291
3	Pipe STD 1.25" Dia	PIPE 1.25	Beam	Pipe	A500 Gr.B ...	Typical	.625	.184	.184	.368
4	Pipe STD 2" Dia	PIPE 2.0	Beam	Pipe	A500 Gr.B ...	Typical	1.02	.627	.627	1.25
5	SR 1"	SR 1	Beam	Pipe	A36 Gr.36	Typical	.785	.049	.049	.098
6	SR 0.75"	SR 3/4	Beam	Pipe	A36 Gr.36	Typical	.442	.016	.016	.031
7	Plate 1/2" thick	PL 0.5	Beam	RECT	A36 Gr.36	Typical	2.5	.052	5.208	.195
8	Plate 3/8"	PL 0.375 Thick	Beam	RECT	A36 Gr.36	Typical	1.875	.022	3.906	.084

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	0	0	0	0	
2	N2	0	1.708333	0	0	
3	N3	0	4.291667	0	0	
4	N4	0	6	0	0	
5	N5	0	1.708333	0.1875	0	
6	N6	0	4.291667	0.1875	0	
7	N7	0	1.708333	2.354167	0	
8	N8	0	4.291667	2.354167	0	
9	N9	0	1.708333	2.854167	0	
10	N10	0	4.291667	2.854167	0	
11	N11	7.541667	1.708333	2.854167	0	
12	N12	7.541667	4.291667	2.854167	0	
13	N13	-7.541667	1.708333	2.854167	0	
14	N14	-7.541667	4.291667	2.854167	0	
15	N17	0.03125	4.291667	2.854167	0	
16	N20	0.03125	1.708333	2.854167	0	
17	N23	-0.03125	4.291667	2.854167	0	
18	N26	-0.03125	1.708333	2.854167	0	
19	N41	6.541667	1.708333	2.854167	0	
20	N42	6.541667	4.291667	2.854167	0	
21	N43	3.791667	1.708333	2.854167	0	
22	N44	3.791667	4.291667	2.854167	0	
23	N45	1.041667	1.708333	2.854167	0	
24	N46	1.041667	4.291667	2.854167	0	
25	N47	6.5	1.708333	2.854167	0	



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Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
26	N48	3.833333	4.291667	2.854167	0	
27	N49	3.75	4.291667	2.854167	0	
28	N50	1.083333	1.708333	2.854167	0	
29	N51	-6.541667	1.708333	2.854167	0	
30	N52	-6.541667	4.291667	2.854167	0	
31	N53	-3.791667	1.708333	2.854167	0	
32	N54	-3.791667	4.291667	2.854167	0	
33	N55	-1.041667	1.708333	2.854167	0	
34	N56	-1.041667	4.291667	2.854167	0	
35	N57	-6.5	1.708333	2.854167	0	
36	N58	-3.833333	4.291667	2.854167	0	
37	N59	-3.75	4.291667	2.854167	0	
38	N60	-1.083333	1.708333	2.854167	0	
39	N61	7.041667	1.708333	2.854167	0	
40	N62	7.041667	4.291667	2.854167	0	
41	N63	7.041667	1.708333	3.020833	0	
42	N64	7.041667	4.291667	3.020833	0	
43	N66	7.041667	0.208333	3.020833	0	
44	N67	7.041667	7.208333	3.020833	0	
45	N67A	0.708333	1.708333	2.854167	0	
46	N68	0.708333	4.291667	2.854167	0	
47	N69	0.708333	1.708333	3.020833	0	
48	N70	0.708333	4.291667	3.020833	0	
49	N71	0.708333	0.208333	3.020833	0	
50	N72	0.708333	7.208333	3.020833	0	
51	N73	-7.041667	1.708333	2.854167	0	
52	N74	-7.041667	4.291667	2.854167	0	
53	N75	-7.041667	1.708333	3.020833	0	
54	N76	-7.041667	4.291667	3.020833	0	
55	N77	-7.041667	0.208333	3.020833	0	
56	N78	-7.041667	7.208333	3.020833	0	
57	N79	-4.541667	1.708333	2.854167	0	
58	N80	-4.541667	4.291667	2.854167	0	
59	N81	-4.541667	1.708333	3.020833	0	
60	N82	-4.541667	4.291667	3.020833	0	
61	N83	-4.541667	0.208333	3.020833	0	
62	N84	-4.541667	7.208333	3.020833	0	
63	N85	0	2.375	0	0	
64	N86	0	4.791667	0	0	
65	N87	0	2.375	-0.333333	0	
66	N88	0	4.791667	-0.333333	0	
67	N89	-0.333333	4.791667	-0.333333	0	
68	N90	-6.541667	3.958333	2.854167	0	
69	N92	3.782833	4.458333	-4.306848	0	
70	N93	6.541667	3.958333	2.854167	0	
71	N93A	0	1.708333	0.604167	0	
72	N94	0	4.291667	0.604167	0	
73	N95	0	1.708333	1.9375	0	
74	N96	0	4.291667	1.9375	0	
75	N97	0	4.291667	1.270167	0	
76	N98	0	1.708333	1.270167	0	
77	N99	-0.223958	4.291667	1.270167	0	
78	N100	-0.223958	1.708333	1.270167	0	
79	N101	-0.223958	5.	1.270167	0	
80	N102	-0.223958	1.	1.270167	0	
81	N83A	-7.041667	3.291667	3.020833	0	
82	N82A	7.041667	3.291667	3.020833	0	



Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
83	N83B	0	1.708333	3.187467	0	
84	N84A	0	4.291667	3.187467	0	
85	N85A	0.03125	4.291667	3.187467	0	
86	N86A	0.03125	1.708333	3.187467	0	
87	N87A	-0.03125	4.291667	3.187467	0	
88	N88A	-0.03125	1.708333	3.187467	0	
89	N89A	0.03125	4.291667	2.520867	0	
90	N90A	0.03125	1.708333	2.520867	0	
91	N91	-0.03125	4.291667	2.520867	0	
92	N92A	-0.03125	1.708333	2.520867	0	
93	N93B	0	1.708333	3.104134	0	
94	N94A	0	4.291667	3.104134	0	
95	N95A	0.03125	4.291667	3.104134	0	
96	N96A	0.03125	1.708333	3.104134	0	
97	N97A	-0.03125	4.291667	3.104134	0	
98	N98A	-0.03125	1.708333	3.104134	0	
99	N99A	0	1.708333	2.6042	0	
100	N100A	0	4.291667	2.6042	0	
101	N101A	0.03125	1.708333	2.6042	0	
102	N102A	-0.03125	1.708333	2.6042	0	
103	N103	0.03125	4.291667	2.6042	0	
104	N104	-0.03125	4.291667	2.6042	0	

Member Point Loads (BLC 1 : Dead)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	M40	Y	-088	%39.3
2	M40	Y	-088	%39.3
3	M43	Y	-082	%8
4	M43	Y	-098	%35.7
5	M49	Y	-012	%24.8
6	M46	Y	-012	%24.8
7	M59	Y	-032	%25

Member Point Loads (BLC 2 : Ice Dead)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	M40	Y	-217	%39.3
2	M40	Y	-217	%39.3
3	M43	Y	-05	%8
4	M43	Y	-052	%35.7
5	M49	Y	-133	%24.8
6	M46	Y	-133	%24.8
7	M59	Y	-079	%25

Member Point Loads (BLC 3 : Full Wind Antenna (0 Deg))

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	M40	Z	-148	0
2	M40	Z	-148	0
3	M43	Z	-068	%8
4	M43	Z	-068	%35.7
5	M49	Z	-048	0
6	M46	Z	-048	0
7	M59	Z	-1	%25
8	M40	Z	-148	%78.6
9	M40	Z	-148	%78.6



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
10	M49	Z	-.048	%49.5
11	M46	Z	-.048	%49.5

Member Point Loads (BLC 4 : Full Wind Antenna (30 Deg))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	M40	Z	-.123	0
2	M40	Z	-.096	0
3	M43	Z	-.052	%8
4	M43	Z	-.054	%35.7
5	M49	Z	-.052	0
6	M46	Z	-.052	0
7	M59	Z	-.098	%25
8	M40	Z	-.123	%78.6
9	M40	Z	-.096	%78.6
10	M49	Z	-.052	%49.5
11	M46	Z	-.052	%49.5
12	M40	X	.071	0
13	M40	X	.056	0
14	M43	X	.03	%8
15	M43	X	.031	%35.7
16	M49	X	.03	0
17	M46	X	.03	0
18	M59	X	.056	%25
19	M40	X	.071	%78.6
20	M40	X	.056	%78.6
21	M49	X	.03	%49.5
22	M46	X	.03	%49.5

Member Point Loads (BLC 5 : Full Wind Antenna (60 Deg))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	M40	Z	-.065	0
2	M40	Z	-.019	0
3	M43	Z	-.022	%8
4	M43	Z	-.026	%35.7
5	M49	Z	-.043	0
6	M46	Z	-.043	0
7	M59	Z	-.05	%25
8	M40	Z	-.065	%78.6
9	M40	Z	-.019	%78.6
10	M49	Z	-.043	%49.5
11	M46	Z	-.043	%49.5
12	M40	X	.113	0
13	M40	X	.032	0
14	M43	X	.039	%8
15	M43	X	.044	%35.7
16	M49	X	.074	0
17	M46	X	.074	0
18	M59	X	.087	%25
19	M40	X	.113	%78.6
20	M40	X	.032	%78.6
21	M49	X	.074	%49.5
22	M46	X	.074	%49.5

Member Point Loads (BLC 6 : Full Wind Antenna (90 Deg))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
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Member Point Loads (BLC 6 : Full Wind Antenna (90 Deg)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft. %]
1	M40	Z	0	0
2	M40	Z	0	0
3	M43	Z	0	%8
4	M43	Z	0	%35.7
5	M49	Z	0	0
6	M46	Z	0	0
7	M59	Z	0	%25
8	M40	Z	0	%78.6
9	M40	Z	0	%78.6
10	M49	Z	0	%49.5
11	M46	Z	0	%49.5
12	M40	X	.124	0
13	M40	X	0	0
14	M43	X	.037	%8
15	M43	X	.046	%35.7
16	M49	X	.098	0
17	M46	X	.098	0
18	M59	X	.076	%25
19	M40	X	.124	%78.6
20	M40	X	0	%78.6
21	M49	X	.098	%49.5
22	M46	X	.098	%49.5

Member Point Loads (BLC 7 : Full Wind Antenna (120 Deg))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft. %]
1	M40	Z	.065	0
2	M40	Z	.019	0
3	M43	Z	.022	%8
4	M43	Z	.026	%35.7
5	M49	Z	.043	0
6	M46	Z	.043	0
7	M59	Z	.032	%25
8	M40	Z	.065	%78.6
9	M40	Z	.019	%78.6
10	M49	Z	.043	%49.5
11	M46	Z	.043	%49.5
12	M40	X	.113	0
13	M40	X	.032	0
14	M43	X	.039	%8
15	M43	X	.044	%35.7
16	M49	X	.074	0
17	M46	X	.074	0
18	M59	X	.055	%25
19	M40	X	.113	%78.6
20	M40	X	.032	%78.6
21	M49	X	.074	%49.5
22	M46	X	.074	%49.5

Member Point Loads (BLC 8 : Full Wind Antenna (150 Deg))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft. %]
1	M40	Z	.123	0
2	M40	Z	.096	0
3	M43	Z	.052	%8
4	M43	Z	.054	%35.7
5	M49	Z	.052	0
6	M46	Z	.052	0



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
7	M59	Z	.065	%25
8	M40	Z	.123	%78.6
9	M40	Z	.096	%78.6
10	M49	Z	.052	%49.5
11	M46	Z	.052	%49.5
12	M40	X	.071	0
13	M40	X	.056	0
14	M43	X	.03	%8
15	M43	X	.031	%35.7
16	M49	X	.03	0
17	M46	X	.03	0
18	M59	X	.038	%25
19	M40	X	.071	%78.6
20	M40	X	.056	%78.6
21	M49	X	.03	%49.5
22	M46	X	.03	%49.5

Member Point Loads (BLC 15 : Ice Wind Antenna (0 Deg))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M40	Z	-.043	0
2	M40	Z	-.043	0
3	M43	Z	-.023	%8
4	M43	Z	-.023	%35.7
5	M49	Z	-.017	0
6	M46	Z	-.017	0
7	M59	Z	-.033	%25
8	M40	Z	-.043	%78.6
9	M40	Z	-.043	%78.6
10	M49	Z	-.017	%49.5
11	M46	Z	-.017	%49.5

Member Point Loads (BLC 16 : Ice Wind Antenna (30 Deg))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M40	Z	-.036	0
2	M40	Z	-.028	0
3	M43	Z	-.018	%8
4	M43	Z	-.019	%35.7
5	M49	Z	-.018	0
6	M46	Z	-.018	0
7	M59	Z	-.031	%25
8	M40	Z	-.036	%78.6
9	M40	Z	-.028	%78.6
10	M49	Z	-.018	%49.5
11	M46	Z	-.018	%49.5
12	M40	X	.021	0
13	M40	X	.016	0
14	M43	X	.011	%8
15	M43	X	.011	%35.7
16	M49	X	.01	0
17	M46	X	.01	0
18	M59	X	.018	%25
19	M40	X	.021	%78.6
20	M40	X	.016	%78.6
21	M49	X	.01	%49.5
22	M46	X	.01	%49.5



Member Point Loads (BLC 17 : Ice Wind Antenna (60 Deg))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M40	Z	-.02	0
2	M40	Z	-.005	0
3	M43	Z	-.008	%8
4	M43	Z	-.009	%35.7
5	M49	Z	-.013	0
6	M46	Z	-.013	0
7	M59	Z	-.016	%25
8	M40	Z	-.02	%78.6
9	M40	Z	-.005	%78.6
10	M49	Z	-.013	%49.5
11	M46	Z	-.013	%49.5
12	M40	X	.034	0
13	M40	X	.009	0
14	M43	X	.015	%8
15	M43	X	.016	%35.7
16	M49	X	.023	0
17	M46	X	.023	0
18	M59	X	.028	%25
19	M40	X	.034	%78.6
20	M40	X	.009	%78.6
21	M49	X	.023	%49.5
22	M46	X	.023	%49.5

Member Point Loads (BLC 18 : Ice Wind Antenna (90 Deg))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M40	Z	0	0
2	M40	Z	0	0
3	M43	Z	0	%8
4	M43	Z	0	%35.7
5	M49	Z	0	0
6	M46	Z	0	0
7	M59	Z	0	%25
8	M40	Z	0	%78.6
9	M40	Z	0	%78.6
10	M49	Z	0	%49.5
11	M46	Z	0	%49.5
12	M40	X	.038	0
13	M40	X	0	0
14	M43	X	.015	%8
15	M43	X	.017	%35.7
16	M49	X	.029	0
17	M46	X	.029	0
18	M59	X	.025	%25
19	M40	X	.038	%78.6
20	M40	X	0	%78.6
21	M49	X	.029	%49.5
22	M46	X	.029	%49.5

Member Point Loads (BLC 19 : Ice Wind Antenna (120 Deg))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M40	Z	.02	0
2	M40	Z	.005	0
3	M43	Z	.008	%8
4	M43	Z	.009	%35.7
5	M49	Z	.013	0
6	M46	Z	.013	0



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
7	M59	Z	.011	%25
8	M40	Z	.02	%78.6
9	M40	Z	.005	%78.6
10	M49	Z	.013	%49.5
11	M46	Z	.013	%49.5
12	M40	X	.034	0
13	M40	X	.009	0
14	M43	X	.015	%8
15	M43	X	.016	%35.7
16	M49	X	.023	0
17	M46	X	.023	0
18	M59	X	.019	%25
19	M40	X	.034	%78.6
20	M40	X	.009	%78.6
21	M49	X	.023	%49.5
22	M46	X	.023	%49.5

Member Point Loads (BLC 20 : Ice Wind Antenna (150 Deg))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M40	Z	.036	0
2	M40	Z	.005	0
3	M43	Z	.008	%8
4	M43	Z	.009	%35.7
5	M49	Z	.013	0
6	M46	Z	.013	0
7	M59	Z	.011	%25
8	M40	Z	.036	%78.6
9	M40	Z	.005	%78.6
10	M49	Z	.013	%49.5
11	M46	Z	.013	%49.5
12	M40	X	.021	0
13	M40	X	.009	0
14	M43	X	.015	%8
15	M43	X	.016	%35.7
16	M49	X	.023	0
17	M46	X	.023	0
18	M59	X	.019	%25
19	M40	X	.021	%78.6
20	M40	X	.009	%78.6
21	M49	X	.023	%49.5
22	M46	X	.023	%49.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M40	Z	-.003	%39.3
2	M40	Z	-.003	%39.3
3	M43	Z	-.002	%8
4	M43	Z	-.003	%35.7
5	M49	Z	0	%24.8
6	M46	Z	0	%24.8
7	M59	Z	-.001	%25

Member Point Loads (BLC 28 : Seismic Antenna (90 Deg))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M40	X	.003	%39.3



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Member Point Loads (BLC 28 : Seismic Antenna (90 Deg)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
2	M40	X	.003	%39.3
3	M43	X	.002	%8
4	M43	X	.003	%35.7
5	M49	X	0	%24.8
6	M46	X	0	%24.8
7	M59	X	.001	%25

Member Point Loads (BLC 41 : Seismic Vertical Antennas)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M40	Y	-.018	%39.3
2	M40	Y	-.018	%39.3
3	M43	Y	-.016	%8
4	M43	Y	-.02	%35.7
5	M49	Y	-.002	%24.8
6	M46	Y	-.002	%24.8
7	M59	Y	-.006	%25

Member Distributed Loads (BLC 2 : Ice Dead)

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k...]	Start Location[ft...]	End Location[ft, %]
1	M1	Y	-.013	-.013	0	%100
2	M2	Y	-.004	-.004	0	%100
3	M3	Y	-.004	-.004	0	%100
4	M4	Y	-.01	-.01	0	%100
5	M5	Y	-.01	-.01	0	%100
6	M28	Y	-.005	-.005	0	%100
7	M29	Y	-.005	-.005	0	%100
8	M30	Y	-.005	-.005	0	%100
9	M31	Y	-.005	-.005	0	%100
10	M32	Y	-.005	-.005	0	%100
11	M33	Y	-.005	-.005	0	%100
12	M34	Y	-.005	-.005	0	%100
13	M35	Y	-.005	-.005	0	%100
14	M36	Y	-.005	-.005	0	%100
15	M37	Y	-.005	-.005	0	%100
16	M38	Y	-.004	-.004	0	%100
17	M39	Y	-.004	-.004	0	%100
18	M40	Y	-.009	-.009	0	%100
19	M41	Y	-.004	-.004	0	%100
20	M42	Y	-.004	-.004	0	%100
21	M43	Y	-.009	-.009	0	%100
22	M44	Y	-.004	-.004	0	%100
23	M45	Y	-.004	-.004	0	%100
24	M46	Y	-.009	-.009	0	%100
25	M47	Y	-.004	-.004	0	%100
26	M48	Y	-.004	-.004	0	%100
27	M49	Y	-.009	-.009	0	%100
28	M50	Y	-.004	-.004	0	%100
29	M51	Y	-.004	-.004	0	%100
30	M54A	Y	-.006	-.006	0	%100
31	M55	Y	-.006	-.006	0	%100
32	M56	Y	-.006	-.006	0	%100
33	M57	Y	-.004	-.004	0	%100
34	M58	Y	-.004	-.004	0	%100
35	M59	Y	-.009	-.009	0	%100
36	M56A	Y	-.007	-.007	0	%100



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Member Distributed Loads (BLC 2 : Ice Dead) (Continued)

	Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[k...	Start Location[ft....	End Location[ft.%,
37	M57A	Y	-0.07	-0.07	0	%100
38	M56B	Y	-0.07	-0.07	0	%100
39	M57B	Y	-0.07	-0.07	0	%100
40	M42A	Y	-0.07	-0.07	0	%100
41	M43A	Y	-0.07	-0.07	0	%100
42	M42B	Y	-0.04	-0.04	0	%100
43	M43B	Y	-0.04	-0.04	0	%100
44	M44A	Y	-0.04	-0.04	0	%100
45	M45A	Y	-0.04	-0.04	0	%100
46	M46A	Y	-0.04	-0.04	0	%100
47	M47A	Y	-0.04	-0.04	0	%100
48	M48A	Y	-0.04	-0.04	0	%100
49	M49A	Y	-0.04	-0.04	0	%100
50	M50A	Y	-0.04	-0.04	0	%100
51	M51A	Y	-0.04	-0.04	0	%100
52	M52	Y	-0.04	-0.04	0	%100
53	M53	Y	-0.04	-0.04	0	%100
54	M55A	Y	-0.04	-0.04	0	%100
55	M56C	Y	-0.04	-0.04	0	%100

Member Distributed Loads (BLC 9 : Full Wind Members (0 Deg))

	Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[k...	Start Location[ft....	End Location[ft.%,
1	M1	Z	-0.16	-0.16	0	%100
2	M4	Z	0	0	0	%100
3	M5	Z	0	0	0	%100
4	M28	Z	-0.03	-0.03	0	%100
5	M29	Z	-0.03	-0.03	0	%100
6	M30	Z	-0.03	-0.03	0	%100
7	M31	Z	-0.03	-0.03	0	%100
8	M32	Z	-0.03	-0.03	0	%100
9	M33	Z	-0.03	-0.03	0	%100
10	M34	Z	-0.03	-0.03	0	%100
11	M35	Z	-0.03	-0.03	0	%100
12	M36	Z	-0.03	-0.03	0	%100
13	M37	Z	-0.03	-0.03	0	%100
14	M54A	Z	-0.04	-0.04	0	%100
15	M55	Z	-0.04	-0.04	0	%100
16	M56	Z	-0.03	-0.03	0	%100
17	M59	Z	-0.09	-0.09	0	%11.9
18	M56A	Z	-0.06	-0.06	0	%100
19	M57A	Z	-0.06	-0.06	0	%100
20	M56B	Z	-0.06	-0.06	0	%100
21	M57B	Z	-0.06	-0.06	0	%100
22	M42A	Z	-0.05	-0.05	0	%100
23	M43A	Z	-0.01	-0.01	0	%100
24	M40	Z	-0.09	-0.09	%78.6	%100
25	M43	Z	-0.09	-0.09	%44.6	%100
26	M46	Z	-0.09	-0.09	%49.5	%100
27	M49	Z	-0.09	-0.09	%49.5	%100
28	M59	Z	-0.09	-0.09	%38.1	%100
29	M1	X	0	0	0	%100
30	M4	X	0	0	0	%100
31	M5	X	0	0	0	%100
32	M28	X	0	0	0	%100
33	M29	X	0	0	0	%100
34	M30	X	0	0	0	%100



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Member Distributed Loads (BLC 9 : Full Wind Members (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k...	Start Location[ft....	End Location[ft. %]
35	M31	X	0	0	0	%100
36	M32	X	0	0	0	%100
37	M33	X	0	0	0	%100
38	M34	X	0	0	0	%100
39	M35	X	0	0	0	%100
40	M36	X	0	0	0	%100
41	M37	X	0	0	0	%100
42	M40	X	0	0	0	%100
43	M43	X	0	0	0	%100
44	M46	X	0	0	0	%100
45	M49	X	0	0	0	%100
46	M54A	X	0	0	0	%100
47	M55	X	0	0	0	%100
48	M56	X	0	0	0	%100
49	M59	X	0	0	0	%11.9
50	M56A	X	0	0	0	%100
51	M57A	X	0	0	0	%100
52	M56B	X	0	0	0	%100
53	M57B	X	0	0	0	%100
54	M42A	X	0	0	0	%100
55	M43A	X	0	0	0	%100
56	M59	X	0	0	%38.1	%100

Member Distributed Loads (BLC 10 : Full Wind Members (30 Deg))

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k...	Start Location[ft....	End Location[ft. %]
1	M1	Z	-.014	-.014	0	%100
2	M4	Z	-.002	-.002	0	%100
3	M5	Z	-.002	-.002	0	%100
4	M28	Z	-.002	-.002	0	%100
5	M29	Z	-.002	-.002	0	%100
6	M30	Z	-.002	-.002	0	%100
7	M31	Z	-.002	-.002	0	%100
8	M32	Z	-.002	-.002	0	%100
9	M33	Z	-.002	-.002	0	%100
10	M34	Z	-.002	-.002	0	%100
11	M35	Z	-.002	-.002	0	%100
12	M36	Z	-.002	-.002	0	%100
13	M37	Z	-.002	-.002	0	%100
14	M54A	Z	-.003	-.003	0	%100
15	M55	Z	-.003	-.003	0	%100
16	M56	Z	-.003	-.003	0	%100
17	M59	Z	-.008	-.008	0	%11.9
18	M56A	Z	-.004	-.004	0	%100
19	M57A	Z	-.004	-.004	0	%100
20	M56B	Z	-.004	-.004	0	%100
21	M57B	Z	-.004	-.004	0	%100
22	M42A	Z	-.002	-.002	0	%100
23	M43A	Z	-.003	-.003	0	%100
24	M40	Z	-.008	-.008	%78.6	%100
25	M43	Z	-.008	-.008	%44.6	%100
26	M46	Z	-.008	-.008	%49.5	%100
27	M49	Z	-.008	-.008	%49.5	%100
28	M59	Z	-.008	-.008	%38.1	%100
29	M1	X	.008	.008	0	%100
30	M4	X	.001	.001	0	%100
31	M5	X	.001	.001	0	%100



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Member Distributed Loads (BLC 10 : Full Wind Members (30 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k...]	Start Location[ft....]	End Location[ft.%]
32	M28	X	.001	.001	0	%100
33	M29	X	.001	.001	0	%100
34	M30	X	.001	.001	0	%100
35	M31	X	.001	.001	0	%100
36	M32	X	.001	.001	0	%100
37	M33	X	.001	.001	0	%100
38	M34	X	.001	.001	0	%100
39	M35	X	.001	.001	0	%100
40	M36	X	.001	.001	0	%100
41	M37	X	.001	.001	0	%100
42	M40	X	.004	.004	0	%100
43	M43	X	.004	.004	0	%100
44	M46	X	.004	.004	0	%100
45	M49	X	.004	.004	0	%100
46	M54A	X	.002	.002	0	%100
47	M55	X	.002	.002	0	%100
48	M56	X	.002	.002	0	%100
49	M59	X	.004	.004	0	%11.9
50	M56A	X	.002	.002	0	%100
51	M57A	X	.002	.002	0	%100
52	M56B	X	.002	.002	0	%100
53	M57B	X	.002	.002	0	%100
54	M42A	X	.001	.001	0	%100
55	M43A	X	.002	.002	0	%100
56	M59	X	.004	.004	%38.1	%100

Member Distributed Loads (BLC 11 : Full Wind Members (60 Deg))

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k...]	Start Location[ft....]	End Location[ft.%]
1	M1	Z	-.008	-.008	0	%100
2	M4	Z	-.004	-.004	0	%100
3	M5	Z	-.004	-.004	0	%100
4	M28	Z	-.001	-.001	0	%100
5	M29	Z	-.001	-.001	0	%100
6	M30	Z	-.001	-.001	0	%100
7	M31	Z	-.001	-.001	0	%100
8	M32	Z	-.001	-.001	0	%100
9	M33	Z	-.001	-.001	0	%100
10	M34	Z	-.001	-.001	0	%100
11	M35	Z	-.001	-.001	0	%100
12	M36	Z	-.001	-.001	0	%100
13	M37	Z	-.001	-.001	0	%100
14	M54A	Z	-.002	-.002	0	%100
15	M55	Z	-.002	-.002	0	%100
16	M56	Z	-.002	-.002	0	%100
17	M59	Z	-.004	-.004	0	%11.9
18	M56A	Z	-.001	-.001	0	%100
19	M57A	Z	-.001	-.001	0	%100
20	M56B	Z	-.001	-.001	0	%100
21	M57B	Z	-.001	-.001	0	%100
22	M42A	Z	0	0	0	%100
23	M43A	Z	-.003	-.003	0	%100
24	M40	Z	-.004	-.004	%78.6	%100
25	M43	Z	-.004	-.004	%44.6	%100
26	M46	Z	-.004	-.004	%49.5	%100
27	M49	Z	-.004	-.004	%49.5	%100
28	M59	Z	-.004	-.004	%38.1	%100



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Member Distributed Loads (BLC 11 : Full Wind Members (60 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k...	Start Location[ft....	End Location[ft. %]
29	M1	X	.014	.014	0	%100
30	M4	X	.007	.007	0	%100
31	M5	X	.007	.007	0	%100
32	M28	X	.002	.002	0	%100
33	M29	X	.002	.002	0	%100
34	M30	X	.002	.002	0	%100
35	M31	X	.002	.002	0	%100
36	M32	X	.002	.002	0	%100
37	M33	X	.002	.002	0	%100
38	M34	X	.002	.002	0	%100
39	M35	X	.002	.002	0	%100
40	M36	X	.002	.002	0	%100
41	M37	X	.002	.002	0	%100
42	M40	X	.008	.008	0	%100
43	M43	X	.008	.008	0	%100
44	M46	X	.008	.008	0	%100
45	M49	X	.008	.008	0	%100
46	M54A	X	.003	.003	0	%100
47	M55	X	.003	.003	0	%100
48	M56	X	.003	.003	0	%100
49	M59	X	.008	.008	0	%11.9
50	M56A	X	.001	.001	0	%100
51	M57A	X	.001	.001	0	%100
52	M56B	X	.001	.001	0	%100
53	M57B	X	.001	.001	0	%100
54	M42A	X	.001	.001	0	%100
55	M43A	X	.005	.005	0	%100
56	M59	X	.008	.008	%38.1	%100

Member Distributed Loads (BLC 12 : Full Wind Members (90 Deg))

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k...	Start Location[ft....	End Location[ft. %]
1	M1	Z	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M5	Z	0	0	0	%100
4	M28	Z	0	0	0	%100
5	M29	Z	0	0	0	%100
6	M30	Z	0	0	0	%100
7	M31	Z	0	0	0	%100
8	M32	Z	0	0	0	%100
9	M33	Z	0	0	0	%100
10	M34	Z	0	0	0	%100
11	M35	Z	0	0	0	%100
12	M36	Z	0	0	0	%100
13	M37	Z	0	0	0	%100
14	M54A	Z	0	0	0	%100
15	M55	Z	0	0	0	%100
16	M56	Z	0	0	0	%100
17	M59	Z	0	0	0	%11.9
18	M56A	Z	0	0	0	%100
19	M57A	Z	0	0	0	%100
20	M56B	Z	0	0	0	%100
21	M57B	Z	0	0	0	%100
22	M42A	Z	0	0	0	%100
23	M43A	Z	0	0	0	%100
24	M40	Z	0	0	%78.6	%100
25	M43	Z	0	0	%44.6	%100



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Member Distributed Loads (BLC 12 : Full Wind Members (90 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k...]	Start Location[ft....]	End Location[ft. %]
26	M46	Z	0	0	%49.5	%100
27	M49	Z	0	0	%49.5	%100
28	M59	Z	0	0	%38.1	%100
29	M1	X	.016	.016	0	%100
30	M4	X	.011	.011	0	%100
31	M5	X	.011	.011	0	%100
32	M28	X	.003	.003	0	%100
33	M29	X	.003	.003	0	%100
34	M30	X	.003	.003	0	%100
35	M31	X	.002	.002	0	%100
36	M32	X	.002	.002	0	%100
37	M33	X	.003	.003	0	%100
38	M34	X	.003	.003	0	%100
39	M35	X	.003	.003	0	%100
40	M36	X	.002	.002	0	%100
41	M37	X	.002	.002	0	%100
42	M40	X	.009	.009	0	%100
43	M43	X	.009	.009	0	%100
44	M46	X	.009	.009	0	%100
45	M49	X	.009	.009	0	%100
46	M54A	X	.004	.004	0	%100
47	M55	X	.004	.004	0	%100
48	M56	X	.004	.004	0	%100
49	M59	X	.009	.009	0	%11.9
50	M56A	X	0	0	0	%100
51	M57A	X	0	0	0	%100
52	M56B	X	0	0	0	%100
53	M57B	X	0	0	0	%100
54	M42A	X	.002	.002	0	%100
55	M43A	X	.005	.005	0	%100
56	M59	X	.009	.009	%38.1	%100

Member Distributed Loads (BLC 13 : Full Wind Members (120 Deg))

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k...]	Start Location[ft....]	End Location[ft. %]
1	M1	Z	.008	.008	0	%100
2	M4	Z	.004	.004	0	%100
3	M5	Z	.004	.004	0	%100
4	M28	Z	.001	.001	0	%100
5	M29	Z	.001	.001	0	%100
6	M30	Z	.001	.001	0	%100
7	M31	Z	.001	.001	0	%100
8	M32	Z	.001	.001	0	%100
9	M33	Z	.001	.001	0	%100
10	M34	Z	.001	.001	0	%100
11	M35	Z	.001	.001	0	%100
12	M36	Z	.001	.001	0	%100
13	M37	Z	.001	.001	0	%100
14	M54A	Z	.002	.002	0	%100
15	M55	Z	.002	.002	0	%100
16	M56	Z	.002	.002	0	%100
17	M59	Z	.004	.004	0	%11.9
18	M56A	Z	.001	.001	0	%100
19	M57A	Z	.001	.001	0	%100
20	M56B	Z	.001	.001	0	%100
21	M57B	Z	.001	.001	0	%100
22	M42A	Z	.002	.002	0	%100



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Member Distributed Loads (BLC 13 : Full Wind Members (120 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k...	Start Location[ft....	End Location[ft. %]
23	M43A	Z	.001	.001	0	%100
24	M40	Z	.004	.004	%78.6	%100
25	M43	Z	.004	.004	%44.6	%100
26	M46	Z	.004	.004	%49.5	%100
27	M49	Z	.004	.004	%49.5	%100
28	M59	Z	.004	.004	%38.1	%100
29	M1	X	.014	.014	0	%100
30	M4	X	.007	.007	0	%100
31	M5	X	.007	.007	0	%100
32	M28	X	.002	.002	0	%100
33	M29	X	.002	.002	0	%100
34	M30	X	.002	.002	0	%100
35	M31	X	.002	.002	0	%100
36	M32	X	.002	.002	0	%100
37	M33	X	.002	.002	0	%100
38	M34	X	.002	.002	0	%100
39	M35	X	.002	.002	0	%100
40	M36	X	.002	.002	0	%100
41	M37	X	.002	.002	0	%100
42	M40	X	.008	.008	0	%100
43	M43	X	.008	.008	0	%100
44	M46	X	.008	.008	0	%100
45	M49	X	.008	.008	0	%100
46	M54A	X	.003	.003	0	%100
47	M55	X	.003	.003	0	%100
48	M56	X	.003	.003	0	%100
49	M59	X	.008	.008	0	%11.9
50	M56A	X	.001	.001	0	%100
51	M57A	X	.001	.001	0	%100
52	M56B	X	.001	.001	0	%100
53	M57B	X	.001	.001	0	%100
54	M42A	X	.004	.004	0	%100
55	M43A	X	.002	.002	0	%100
56	M59	X	.008	.008	%38.1	%100

Member Distributed Loads (BLC 14 : Full Wind Members (150 Deg))

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k...	Start Location[ft....	End Location[ft. %]
1	M1	Z	.014	.014	0	%100
2	M4	Z	.002	.002	0	%100
3	M5	Z	.002	.002	0	%100
4	M28	Z	.002	.002	0	%100
5	M29	Z	.002	.002	0	%100
6	M30	Z	.002	.002	0	%100
7	M31	Z	.002	.002	0	%100
8	M32	Z	.002	.002	0	%100
9	M33	Z	.002	.002	0	%100
10	M34	Z	.002	.002	0	%100
11	M35	Z	.002	.002	0	%100
12	M36	Z	.002	.002	0	%100
13	M37	Z	.002	.002	0	%100
14	M54A	Z	.003	.003	0	%100
15	M55	Z	.003	.003	0	%100
16	M56	Z	.003	.003	0	%100
17	M59	Z	.008	.008	0	%11.9
18	M56A	Z	.004	.004	0	%100
19	M57A	Z	.004	.004	0	%100



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Member Distributed Loads (BLC 14 : Full Wind Members (150 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[k...]	Start Location[ft....]	End Location[ft.%]
20	M56B	Z	.004	.004	0	%100
21	M57B	Z	.004	.004	0	%100
22	M42A	Z	.005	.005	0	%100
23	M43A	Z	0	0	0	%100
24	M40	Z	.008	.008	%78.6	%100
25	M43	Z	.008	.008	%44.6	%100
26	M46	Z	.008	.008	%49.5	%100
27	M49	Z	.008	.008	%49.5	%100
28	M59	Z	.008	.008	%38.1	%100
29	M1	X	.008	.008	0	%100
30	M4	X	.001	.001	0	%100
31	M5	X	.001	.001	0	%100
32	M28	X	.001	.001	0	%100
33	M29	X	.001	.001	0	%100
34	M30	X	.001	.001	0	%100
35	M31	X	.001	.001	0	%100
36	M32	X	.001	.001	0	%100
37	M33	X	.001	.001	0	%100
38	M34	X	.001	.001	0	%100
39	M35	X	.001	.001	0	%100
40	M36	X	.001	.001	0	%100
41	M37	X	.001	.001	0	%100
42	M40	X	.004	.004	0	%100
43	M43	X	.004	.004	0	%100
44	M46	X	.004	.004	0	%100
45	M49	X	.004	.004	0	%100
46	M54A	X	.002	.002	0	%100
47	M55	X	.002	.002	0	%100
48	M56	X	.002	.002	0	%100
49	M59	X	.004	.004	0	%11.9
50	M56A	X	.002	.002	0	%100
51	M57A	X	.002	.002	0	%100
52	M56B	X	.002	.002	0	%100
53	M57B	X	.002	.002	0	%100
54	M42A	X	.003	.003	0	%100
55	M43A	X	0	0	0	%100
56	M59	X	.004	.004	%38.1	%100

Member Distributed Loads (BLC 21 : Ice Wind Members (0 Deg))

	Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[k...]	Start Location[ft....]	End Location[ft.%]
1	M1	Z	-.007	-.007	0	%100
2	M2	Z	0	0	0	%100
3	M3	Z	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M5	Z	0	0	0	%100
6	M28	Z	-.004	-.004	0	%100
7	M29	Z	-.004	-.004	0	%100
8	M30	Z	-.004	-.004	0	%100
9	M31	Z	-.004	-.004	0	%100
10	M32	Z	-.004	-.004	0	%100
11	M33	Z	-.004	-.004	0	%100
12	M34	Z	-.004	-.004	0	%100
13	M35	Z	-.004	-.004	0	%100
14	M36	Z	-.004	-.004	0	%100
15	M37	Z	-.004	-.004	0	%100
16	M38	Z	0	0	0	%100



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Member Distributed Loads (BLC 21 : Ice Wind Members (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[k...	Start Location[ft....	End Location[ft.%]
17	M39	Z	0	0	0	%100
18	M41	Z	0	0	0	%100
19	M42	Z	0	0	0	%100
20	M44	Z	0	0	0	%100
21	M45	Z	0	0	0	%100
22	M47	Z	0	0	0	%100
23	M48	Z	0	0	0	%100
24	M50	Z	0	0	0	%100
25	M51	Z	0	0	0	%100
26	M54A	Z	-0.004	-0.004	0	%100
27	M55	Z	-0.004	-0.004	0	%100
28	M56	Z	-0.004	-0.004	0	%100
29	M57	Z	-0.006	-0.006	0	%100
30	M58	Z	-0.006	-0.006	0	%100
31	M59	Z	-0.005	-0.005	0	%11.9
32	M56A	Z	-0.004	-0.004	0	%100
33	M57A	Z	-0.004	-0.004	0	%100
34	M56B	Z	-0.004	-0.004	0	%100
35	M57B	Z	-0.004	-0.004	0	%100
36	M42A	Z	-0.004	-0.004	0	%100
37	M43A	Z	-0.001	-0.001	0	%100
38	M42B	Z	0	0	0	%100
39	M43B	Z	0	0	0	%100
40	M44A	Z	0	0	0	%100
41	M45A	Z	0	0	0	%100
42	M46A	Z	0	0	0	%100
43	M47A	Z	0	0	0	%100
44	M48A	Z	-0.029	-0.029	0	%100
45	M49A	Z	-0.029	-0.029	0	%100
46	M50A	Z	-0.029	-0.029	0	%100
47	M51A	Z	-0.029	-0.029	0	%100
48	M52	Z	-0.029	-0.029	0	%100
49	M53	Z	-0.029	-0.029	0	%100
50	M55A	Z	-0.029	-0.029	0	%100
51	M56C	Z	-0.029	-0.029	0	%100
52	M40	Z	-0.005	-0.005	%78.6	%100
53	M43	Z	-0.005	-0.005	%44.6	%100
54	M46	Z	-0.005	-0.005	%49.5	%100
55	M49	Z	-0.005	-0.005	%49.5	%100
56	M59	Z	-0.005	-0.005	%38.1	%100
57	M1	X	0	0	0	%100
58	M2	X	0	0	0	%100
59	M3	X	0	0	0	%100
60	M4	X	0	0	0	%100
61	M5	X	0	0	0	%100
62	M28	X	0	0	0	%100
63	M29	X	0	0	0	%100
64	M30	X	0	0	0	%100
65	M31	X	0	0	0	%100
66	M32	X	0	0	0	%100
67	M33	X	0	0	0	%100
68	M34	X	0	0	0	%100
69	M35	X	0	0	0	%100
70	M36	X	0	0	0	%100
71	M37	X	0	0	0	%100
72	M38	X	0	0	0	%100
73	M39	X	0	0	0	%100



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Member Distributed Loads (BLC 21 : Ice Wind Members (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k...	Start Location[ft....	End Location[ft.%,]
74	M40	X	0	0	0	%100
75	M41	X	0	0	0	%100
76	M42	X	0	0	0	%100
77	M43	X	0	0	0	%100
78	M44	X	0	0	0	%100
79	M45	X	0	0	0	%100
80	M46	X	0	0	0	%100
81	M47	X	0	0	0	%100
82	M48	X	0	0	0	%100
83	M49	X	0	0	0	%100
84	M50	X	0	0	0	%100
85	M51	X	0	0	0	%100
86	M54A	X	0	0	0	%100
87	M55	X	0	0	0	%100
88	M56	X	0	0	0	%100
89	M57	X	0	0	0	%100
90	M58	X	0	0	0	%100
91	M59	X	0	0	0	%11.9
92	M56A	X	0	0	0	%100
93	M57A	X	0	0	0	%100
94	M56B	X	0	0	0	%100
95	M57B	X	0	0	0	%100
96	M42A	X	0	0	0	%100
97	M43A	X	0	0	0	%100
98	M42B	X	0	0	0	%100
99	M43B	X	0	0	0	%100
100	M44A	X	0	0	0	%100
101	M45A	X	0	0	0	%100
102	M46A	X	0	0	0	%100
103	M47A	X	0	0	0	%100
104	M48A	X	0	0	0	%100
105	M49A	X	0	0	0	%100
106	M50A	X	0	0	0	%100
107	M51A	X	0	0	0	%100
108	M52	X	0	0	0	%100
109	M53	X	0	0	0	%100
110	M55A	X	0	0	0	%100
111	M56C	X	0	0	0	%100
112	M59	X	0	0	%38.1	%100

Member Distributed Loads (BLC 22 : Ice Wind Members (30 Deg))

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k...	Start Location[ft....	End Location[ft.%,]
1	M1	Z	-.006	-.006	0	%100
2	M2	Z	0	0	0	%100
3	M3	Z	0	0	0	%100
4	M4	Z	-.001	-.001	0	%100
5	M5	Z	-.001	-.001	0	%100
6	M28	Z	-.004	-.004	0	%100
7	M29	Z	-.004	-.004	0	%100
8	M30	Z	-.004	-.004	0	%100
9	M31	Z	-.003	-.003	0	%100
10	M32	Z	-.003	-.003	0	%100
11	M33	Z	-.004	-.004	0	%100
12	M34	Z	-.004	-.004	0	%100
13	M35	Z	-.004	-.004	0	%100
14	M36	Z	-.003	-.003	0	%100



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Member Distributed Loads (BLC 22 : Ice Wind Members (30 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k...Start Location[ft.... End Location[ft.%]
15	M37	Z	-.003	-.003 0 %100
16	M38	Z	0	0 0 %100
17	M39	Z	0	0 0 %100
18	M41	Z	0	0 0 %100
19	M42	Z	0	0 0 %100
20	M44	Z	0	0 0 %100
21	M45	Z	0	0 0 %100
22	M47	Z	0	0 0 %100
23	M48	Z	0	0 0 %100
24	M50	Z	0	0 0 %100
25	M51	Z	0	0 0 %100
26	M54A	Z	-.004	-.004 0 %100
27	M55	Z	-.004	-.004 0 %100
28	M56	Z	-.004	-.004 0 %100
29	M57	Z	-.006	-.006 0 %100
30	M58	Z	-.006	-.006 0 %100
31	M59	Z	-.005	-.005 0 %11.9
32	M56A	Z	-.003	-.003 0 %100
33	M57A	Z	-.003	-.003 0 %100
34	M56B	Z	-.003	-.003 0 %100
35	M57B	Z	-.003	-.003 0 %100
36	M42A	Z	-.002	-.002 0 %100
37	M43A	Z	-.003	-.003 0 %100
38	M42B	Z	0	0 0 %100
39	M43B	Z	0	0 0 %100
40	M44A	Z	0	0 0 %100
41	M45A	Z	0	0 0 %100
42	M46A	Z	0	0 0 %100
43	M47A	Z	0	0 0 %100
44	M48A	Z	-.025	-.025 0 %100
45	M49A	Z	-.025	-.025 0 %100
46	M50A	Z	-.025	-.025 0 %100
47	M51A	Z	-.025	-.025 0 %100
48	M52	Z	-.025	-.025 0 %100
49	M53	Z	-.025	-.025 0 %100
50	M55A	Z	-.025	-.025 0 %100
51	M56C	Z	-.025	-.025 0 %100
52	M40	Z	-.004	-.004 %78.6 %100
53	M43	Z	-.004	-.004 %44.6 %100
54	M46	Z	-.004	-.004 %49.5 %100
55	M49	Z	-.004	-.004 %49.5 %100
56	M59	Z	-.005	-.005 %38.1 %100
57	M1	X	.004	.004 0 %100
58	M2	X	0	0 0 %100
59	M3	X	0	0 0 %100
60	M4	X	0	0 0 %100
61	M5	X	0	0 0 %100
62	M28	X	.002	.002 0 %100
63	M29	X	.002	.002 0 %100
64	M30	X	.002	.002 0 %100
65	M31	X	.002	.002 0 %100
66	M32	X	.002	.002 0 %100
67	M33	X	.002	.002 0 %100
68	M34	X	.002	.002 0 %100
69	M35	X	.002	.002 0 %100
70	M36	X	.002	.002 0 %100
71	M37	X	.002	.002 0 %100



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Member Distributed Loads (BLC 22 : Ice Wind Members (30 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k...	Start Location[ft,...	End Location[ft, %]
72	M38	X	0	0	0	%100
73	M39	X	0	0	0	%100
74	M40	X	.003	.003	0	%100
75	M41	X	0	0	0	%100
76	M42	X	0	0	0	%100
77	M43	X	.003	.003	0	%100
78	M44	X	0	0	0	%100
79	M45	X	0	0	0	%100
80	M46	X	.003	.003	0	%100
81	M47	X	0	0	0	%100
82	M48	X	0	0	0	%100
83	M49	X	.003	.003	0	%100
84	M50	X	0	0	0	%100
85	M51	X	0	0	0	%100
86	M54A	X	.002	.002	0	%100
87	M55	X	.002	.002	0	%100
88	M56	X	.002	.002	0	%100
89	M57	X	.003	.003	0	%100
90	M58	X	.003	.003	0	%100
91	M59	X	.003	.003	0	%11.9
92	M56A	X	.002	.002	0	%100
93	M57A	X	.002	.002	0	%100
94	M56B	X	.002	.002	0	%100
95	M57B	X	.002	.002	0	%100
96	M42A	X	.001	.001	0	%100
97	M43A	X	.001	.001	0	%100
98	M42B	X	0	0	0	%100
99	M43B	X	0	0	0	%100
100	M44A	X	0	0	0	%100
101	M45A	X	0	0	0	%100
102	M46A	X	0	0	0	%100
103	M47A	X	0	0	0	%100
104	M48A	X	.014	.014	0	%100
105	M49A	X	.014	.014	0	%100
106	M50A	X	.014	.014	0	%100
107	M51A	X	.014	.014	0	%100
108	M52	X	.014	.014	0	%100
109	M53	X	.014	.014	0	%100
110	M55A	X	.014	.014	0	%100
111	M56C	X	.014	.014	0	%100
112	M59	X	.003	.003	%38.1	%100

Member Distributed Loads (BLC 23 : Ice Wind Members (60 Deg))

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k...	Start Location[ft,...	End Location[ft, %]
1	M1	Z	-.004	-.004	0	%100
2	M2	Z	0	0	0	%100
3	M3	Z	0	0	0	%100
4	M4	Z	-.001	-.001	0	%100
5	M5	Z	-.001	-.001	0	%100
6	M28	Z	-.002	-.002	0	%100
7	M29	Z	-.002	-.002	0	%100
8	M30	Z	-.002	-.002	0	%100
9	M31	Z	-.002	-.002	0	%100
10	M32	Z	-.002	-.002	0	%100
11	M33	Z	-.002	-.002	0	%100
12	M34	Z	-.002	-.002	0	%100



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Member Distributed Loads (BLC 23 : Ice Wind Members (60 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k...]	Start Location[ft...]	End Location[ft.%]
13	M35	Z	-.002	-.002	0	%100
14	M36	Z	-.002	-.002	0	%100
15	M37	Z	-.002	-.002	0	%100
16	M38	Z	0	0	0	%100
17	M39	Z	0	0	0	%100
18	M41	Z	0	0	0	%100
19	M42	Z	0	0	0	%100
20	M44	Z	0	0	0	%100
21	M45	Z	0	0	0	%100
22	M47	Z	0	0	0	%100
23	M48	Z	0	0	0	%100
24	M50	Z	0	0	0	%100
25	M51	Z	0	0	0	%100
26	M54A	Z	-.002	-.002	0	%100
27	M55	Z	-.002	-.002	0	%100
28	M56	Z	-.002	-.002	0	%100
29	M57	Z	-.003	-.003	0	%100
30	M58	Z	-.003	-.003	0	%100
31	M59	Z	-.003	-.003	0	%11.9
32	M56A	Z	-.002	-.002	0	%100
33	M57A	Z	-.002	-.002	0	%100
34	M56B	Z	-.002	-.002	0	%100
35	M57B	Z	-.002	-.002	0	%100
36	M42A	Z	0	0	0	%100
37	M43A	Z	-.002	-.002	0	%100
38	M42B	Z	0	0	0	%100
39	M43B	Z	0	0	0	%100
40	M44A	Z	0	0	0	%100
41	M45A	Z	0	0	0	%100
42	M46A	Z	0	0	0	%100
43	M47A	Z	0	0	0	%100
44	M48A	Z	-.014	-.014	0	%100
45	M49A	Z	-.014	-.014	0	%100
46	M50A	Z	-.014	-.014	0	%100
47	M51A	Z	-.014	-.014	0	%100
48	M52	Z	-.014	-.014	0	%100
49	M53	Z	-.014	-.014	0	%100
50	M55A	Z	-.014	-.014	0	%100
51	M56C	Z	-.014	-.014	0	%100
52	M40	Z	-.003	-.003	%78.6	%100
53	M43	Z	-.003	-.003	%44.6	%100
54	M46	Z	-.003	-.003	%49.5	%100
55	M49	Z	-.003	-.003	%49.5	%100
56	M59	Z	-.003	-.003	%38.1	%100
57	M1	X	.006	.006	0	%100
58	M2	X	0	0	0	%100
59	M3	X	0	0	0	%100
60	M4	X	.002	.002	0	%100
61	M5	X	.002	.002	0	%100
62	M28	X	.004	.004	0	%100
63	M29	X	.004	.004	0	%100
64	M30	X	.004	.004	0	%100
65	M31	X	.003	.003	0	%100
66	M32	X	.003	.003	0	%100
67	M33	X	.004	.004	0	%100
68	M34	X	.004	.004	0	%100
69	M35	X	.004	.004	0	%100



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Member Distributed Loads (BLC 23 : Ice Wind Members (60 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[k...]	Start Location[ft....]	End Location[ft.%]
70	M36	X	.003	.003	0	%100
71	M37	X	.003	.003	0	%100
72	M38	X	0	0	0	%100
73	M39	X	0	0	0	%100
74	M40	X	.004	.004	0	%100
75	M41	X	0	0	0	%100
76	M42	X	0	0	0	%100
77	M43	X	.004	.004	0	%100
78	M44	X	0	0	0	%100
79	M45	X	0	0	0	%100
80	M46	X	.004	.004	0	%100
81	M47	X	0	0	0	%100
82	M48	X	0	0	0	%100
83	M49	X	.004	.004	0	%100
84	M50	X	0	0	0	%100
85	M51	X	0	0	0	%100
86	M54A	X	.004	.004	0	%100
87	M55	X	.004	.004	0	%100
88	M56	X	.004	.004	0	%100
89	M57	X	.006	.006	0	%100
90	M58	X	.006	.006	0	%100
91	M59	X	.005	.005	0	%11.9
92	M56A	X	.003	.003	0	%100
93	M57A	X	.003	.003	0	%100
94	M56B	X	.003	.003	0	%100
95	M57B	X	.003	.003	0	%100
96	M42A	X	.001	.001	0	%100
97	M43A	X	.004	.004	0	%100
98	M42B	X	0	0	0	%100
99	M43B	X	0	0	0	%100
100	M44A	X	0	0	0	%100
101	M45A	X	0	0	0	%100
102	M46A	X	0	0	0	%100
103	M47A	X	0	0	0	%100
104	M48A	X	.025	.025	0	%100
105	M49A	X	.025	.025	0	%100
106	M50A	X	.025	.025	0	%100
107	M51A	X	.025	.025	0	%100
108	M52	X	.025	.025	0	%100
109	M53	X	.025	.025	0	%100
110	M55A	X	.025	.025	0	%100
111	M56C	X	.025	.025	0	%100
112	M59	X	.005	.005	%38.1	%100

Member Distributed Loads (BLC 24 : Ice Wind Members (90 Deg))

	Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[k...]	Start Location[ft....]	End Location[ft.%]
1	M1	Z	0	0	0	%100
2	M2	Z	0	0	0	%100
3	M3	Z	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M5	Z	0	0	0	%100
6	M28	Z	0	0	0	%100
7	M29	Z	0	0	0	%100
8	M30	Z	0	0	0	%100
9	M31	Z	0	0	0	%100
10	M32	Z	0	0	0	%100



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Member Distributed Loads (BLC 24 : Ice Wind Members (90 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k...	Start Location[ft...	End Location[ft.%]
11	M33	Z	0	0	0	%100
12	M34	Z	0	0	0	%100
13	M35	Z	0	0	0	%100
14	M36	Z	0	0	0	%100
15	M37	Z	0	0	0	%100
16	M38	Z	0	0	0	%100
17	M39	Z	0	0	0	%100
18	M41	Z	0	0	0	%100
19	M42	Z	0	0	0	%100
20	M44	Z	0	0	0	%100
21	M45	Z	0	0	0	%100
22	M47	Z	0	0	0	%100
23	M48	Z	0	0	0	%100
24	M50	Z	0	0	0	%100
25	M51	Z	0	0	0	%100
26	M54A	Z	0	0	0	%100
27	M55	Z	0	0	0	%100
28	M56	Z	0	0	0	%100
29	M57	Z	0	0	0	%100
30	M58	Z	0	0	0	%100
31	M59	Z	0	0	0	%11.9
32	M56A	Z	0	0	0	%100
33	M57A	Z	0	0	0	%100
34	M56B	Z	0	0	0	%100
35	M57B	Z	0	0	0	%100
36	M42A	Z	0	0	0	%100
37	M43A	Z	0	0	0	%100
38	M42B	Z	0	0	0	%100
39	M43B	Z	0	0	0	%100
40	M44A	Z	0	0	0	%100
41	M45A	Z	0	0	0	%100
42	M46A	Z	0	0	0	%100
43	M47A	Z	0	0	0	%100
44	M48A	Z	0	0	0	%100
45	M49A	Z	0	0	0	%100
46	M50A	Z	0	0	0	%100
47	M51A	Z	0	0	0	%100
48	M52	Z	0	0	0	%100
49	M53	Z	0	0	0	%100
50	M55A	Z	0	0	0	%100
51	M56C	Z	0	0	0	%100
52	M40	Z	0	0	%78.6	%100
53	M43	Z	0	0	%44.6	%100
54	M46	Z	0	0	%49.5	%100
55	M49	Z	0	0	%49.5	%100
56	M59	Z	0	0	%38.1	%100
57	M1	X	.007	.007	0	%100
58	M2	X	0	0	0	%100
59	M3	X	0	0	0	%100
60	M4	X	.002	.002	0	%100
61	M5	X	.002	.002	0	%100
62	M28	X	.004	.004	0	%100
63	M29	X	.004	.004	0	%100
64	M30	X	.004	.004	0	%100
65	M31	X	.003	.003	0	%100
66	M32	X	.003	.003	0	%100
67	M33	X	.004	.004	0	%100



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Member Distributed Loads (BLC 24 : Ice Wind Members (90 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k...]	Start Locationft....	End Locationft.%
68	M34	X	.004	.004	0	%100
69	M35	X	.004	.004	0	%100
70	M36	X	.003	.003	0	%100
71	M37	X	.003	.003	0	%100
72	M38	X	0	0	0	%100
73	M39	X	0	0	0	%100
74	M40	X	.005	.005	0	%100
75	M41	X	0	0	0	%100
76	M42	X	0	0	0	%100
77	M43	X	.005	.005	0	%100
78	M44	X	0	0	0	%100
79	M45	X	0	0	0	%100
80	M46	X	.005	.005	0	%100
81	M47	X	0	0	0	%100
82	M48	X	0	0	0	%100
83	M49	X	.005	.005	0	%100
84	M50	X	0	0	0	%100
85	M51	X	0	0	0	%100
86	M54A	X	.004	.004	0	%100
87	M55	X	.004	.004	0	%100
88	M56	X	.004	.004	0	%100
89	M57	X	.006	.006	0	%100
90	M58	X	.006	.006	0	%100
91	M59	X	.005	.005	0	%11.9
92	M56A	X	.003	.003	0	%100
93	M57A	X	.003	.003	0	%100
94	M56B	X	.003	.003	0	%100
95	M57B	X	.003	.003	0	%100
96	M42A	X	.002	.002	0	%100
97	M43A	X	.004	.004	0	%100
98	M42B	X	0	0	0	%100
99	M43B	X	0	0	0	%100
100	M44A	X	0	0	0	%100
101	M45A	X	0	0	0	%100
102	M46A	X	0	0	0	%100
103	M47A	X	0	0	0	%100
104	M48A	X	.029	.029	0	%100
105	M49A	X	.029	.029	0	%100
106	M50A	X	.029	.029	0	%100
107	M51A	X	.029	.029	0	%100
108	M52	X	.029	.029	0	%100
109	M53	X	.029	.029	0	%100
110	M55A	X	.029	.029	0	%100
111	M56C	X	.029	.029	0	%100
112	M59	X	.005	.005	%38.1	%100

Member Distributed Loads (BLC 25 : Ice Wind Members (120 Deg))

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k...]	Start Locationft....	End Locationft.%
1	M1	Z	.004	.004	0	%100
2	M2	Z	0	0	0	%100
3	M3	Z	0	0	0	%100
4	M4	Z	.001	.001	0	%100
5	M5	Z	.001	.001	0	%100
6	M28	Z	.002	.002	0	%100
7	M29	Z	.002	.002	0	%100
8	M30	Z	.002	.002	0	%100



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Member Distributed Loads (BLC 25 : Ice Wind Members (120 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k...]	Start Location[ft....]	End Location[ft, %]
9	M31	Z	.002	.002	0	%100
10	M32	Z	.002	.002	0	%100
11	M33	Z	.002	.002	0	%100
12	M34	Z	.002	.002	0	%100
13	M35	Z	.002	.002	0	%100
14	M36	Z	.002	.002	0	%100
15	M37	Z	.002	.002	0	%100
16	M38	Z	0	0	0	%100
17	M39	Z	0	0	0	%100
18	M41	Z	0	0	0	%100
19	M42	Z	0	0	0	%100
20	M44	Z	0	0	0	%100
21	M45	Z	0	0	0	%100
22	M47	Z	0	0	0	%100
23	M48	Z	0	0	0	%100
24	M50	Z	0	0	0	%100
25	M51	Z	0	0	0	%100
26	M54A	Z	.002	.002	0	%100
27	M55	Z	.002	.002	0	%100
28	M56	Z	.002	.002	0	%100
29	M57	Z	.003	.003	0	%100
30	M58	Z	.003	.003	0	%100
31	M59	Z	.003	.003	0	%11.9
32	M56A	Z	.002	.002	0	%100
33	M57A	Z	.002	.002	0	%100
34	M56B	Z	.002	.002	0	%100
35	M57B	Z	.002	.002	0	%100
36	M42A	Z	.002	.002	0	%100
37	M43A	Z	.001	.001	0	%100
38	M42B	Z	0	0	0	%100
39	M43B	Z	0	0	0	%100
40	M44A	Z	0	0	0	%100
41	M45A	Z	0	0	0	%100
42	M46A	Z	0	0	0	%100
43	M47A	Z	0	0	0	%100
44	M48A	Z	.014	.014	0	%100
45	M49A	Z	.014	.014	0	%100
46	M50A	Z	.014	.014	0	%100
47	M51A	Z	.014	.014	0	%100
48	M52	Z	.014	.014	0	%100
49	M53	Z	.014	.014	0	%100
50	M55A	Z	.014	.014	0	%100
51	M56C	Z	.014	.014	0	%100
52	M40	Z	.003	.003	%78.6	%100
53	M43	Z	.003	.003	%44.6	%100
54	M46	Z	.003	.003	%49.5	%100
55	M49	Z	.003	.003	%49.5	%100
56	M59	Z	.003	.003	%38.1	%100
57	M1	X	.006	.006	0	%100
58	M2	X	0	0	0	%100
59	M3	X	0	0	0	%100
60	M4	X	.002	.002	0	%100
61	M5	X	.002	.002	0	%100
62	M28	X	.004	.004	0	%100
63	M29	X	.004	.004	0	%100
64	M30	X	.004	.004	0	%100
65	M31	X	.003	.003	0	%100



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Member Distributed Loads (BLC 25 : Ice Wind Members (120 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k...Start Locationft.... End Locationft.%)		
66	M32	X	.003	.003	0	%100
67	M33	X	.004	.004	0	%100
68	M34	X	.004	.004	0	%100
69	M35	X	.004	.004	0	%100
70	M36	X	.003	.003	0	%100
71	M37	X	.003	.003	0	%100
72	M38	X	0	0	0	%100
73	M39	X	0	0	0	%100
74	M40	X	.004	.004	0	%100
75	M41	X	0	0	0	%100
76	M42	X	0	0	0	%100
77	M43	X	.004	.004	0	%100
78	M44	X	0	0	0	%100
79	M45	X	0	0	0	%100
80	M46	X	.004	.004	0	%100
81	M47	X	0	0	0	%100
82	M48	X	0	0	0	%100
83	M49	X	.004	.004	0	%100
84	M50	X	0	0	0	%100
85	M51	X	0	0	0	%100
86	M54A	X	.004	.004	0	%100
87	M55	X	.004	.004	0	%100
88	M56	X	.004	.004	0	%100
89	M57	X	.006	.006	0	%100
90	M58	X	.006	.006	0	%100
91	M59	X	.005	.005	0	%11.9
92	M56A	X	.003	.003	0	%100
93	M57A	X	.003	.003	0	%100
94	M56B	X	.003	.003	0	%100
95	M57B	X	.003	.003	0	%100
96	M42A	X	.003	.003	0	%100
97	M43A	X	.002	.002	0	%100
98	M42B	X	0	0	0	%100
99	M43B	X	0	0	0	%100
100	M44A	X	0	0	0	%100
101	M45A	X	0	0	0	%100
102	M46A	X	0	0	0	%100
103	M47A	X	0	0	0	%100
104	M48A	X	.025	.025	0	%100
105	M49A	X	.025	.025	0	%100
106	M50A	X	.025	.025	0	%100
107	M51A	X	.025	.025	0	%100
108	M52	X	.025	.025	0	%100
109	M53	X	.025	.025	0	%100
110	M55A	X	.025	.025	0	%100
111	M56C	X	.025	.025	0	%100
112	M59	X	.005	.005	%38.1	%100

Member Distributed Loads (BLC 26 : Ice Wind Members (150 Deg))

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k...Start Locationft.... End Locationft.%)		
1	M1	Z	.006	.006	0	%100
2	M2	Z	0	0	0	%100
3	M3	Z	0	0	0	%100
4	M4	Z	.001	.001	0	%100
5	M5	Z	.001	.001	0	%100
6	M28	Z	.004	.004	0	%100



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Member Distributed Loads (BLC 26 : Ice Wind Members (150 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k...]	Start Location[ft....]	End Location[ft.%]
7	M29	Z	.004	.004	0	%100
8	M30	Z	.004	.004	0	%100
9	M31	Z	.003	.003	0	%100
10	M32	Z	.003	.003	0	%100
11	M33	Z	.004	.004	0	%100
12	M34	Z	.004	.004	0	%100
13	M35	Z	.004	.004	0	%100
14	M36	Z	.003	.003	0	%100
15	M37	Z	.003	.003	0	%100
16	M38	Z	0	0	0	%100
17	M39	Z	0	0	0	%100
18	M41	Z	0	0	0	%100
19	M42	Z	0	0	0	%100
20	M44	Z	0	0	0	%100
21	M45	Z	0	0	0	%100
22	M47	Z	0	0	0	%100
23	M48	Z	0	0	0	%100
24	M50	Z	0	0	0	%100
25	M51	Z	0	0	0	%100
26	M54A	Z	.004	.004	0	%100
27	M55	Z	.004	.004	0	%100
28	M56	Z	.004	.004	0	%100
29	M57	Z	.006	.006	0	%100
30	M58	Z	.006	.006	0	%100
31	M59	Z	.005	.005	0	%11.9
32	M56A	Z	.003	.003	0	%100
33	M57A	Z	.003	.003	0	%100
34	M56B	Z	.003	.003	0	%100
35	M57B	Z	.003	.003	0	%100
36	M42A	Z	.004	.004	0	%100
37	M43A	Z	.001	.001	0	%100
38	M42B	Z	0	0	0	%100
39	M43B	Z	0	0	0	%100
40	M44A	Z	0	0	0	%100
41	M45A	Z	0	0	0	%100
42	M46A	Z	0	0	0	%100
43	M47A	Z	0	0	0	%100
44	M48A	Z	.025	.025	0	%100
45	M49A	Z	.025	.025	0	%100
46	M50A	Z	.025	.025	0	%100
47	M51A	Z	.025	.025	0	%100
48	M52	Z	.025	.025	0	%100
49	M53	Z	.025	.025	0	%100
50	M55A	Z	.025	.025	0	%100
51	M56C	Z	.025	.025	0	%100
52	M40	Z	.004	.004	%78.6	%100
53	M43	Z	.004	.004	%44.6	%100
54	M46	Z	.004	.004	%49.5	%100
55	M49	Z	.004	.004	%49.5	%100
56	M59	Z	.005	.005	%38.1	%100
57	M1	X	.004	.004	0	%100
58	M2	X	0	0	0	%100
59	M3	X	0	0	0	%100
60	M4	X	0	0	0	%100
61	M5	X	0	0	0	%100
62	M28	X	.002	.002	0	%100
63	M29	X	.002	.002	0	%100



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Member Distributed Loads (BLC 26 : Ice Wind Members (150 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location(ft,%)	End Location(ft,%)
64	M30	X	.002	.002	0	%100
65	M31	X	.002	.002	0	%100
66	M32	X	.002	.002	0	%100
67	M33	X	.002	.002	0	%100
68	M34	X	.002	.002	0	%100
69	M35	X	.002	.002	0	%100
70	M36	X	.002	.002	0	%100
71	M37	X	.002	.002	0	%100
72	M38	X	0	0	0	%100
73	M39	X	0	0	0	%100
74	M40	X	.003	.003	0	%100
75	M41	X	0	0	0	%100
76	M42	X	0	0	0	%100
77	M43	X	.003	.003	0	%100
78	M44	X	0	0	0	%100
79	M45	X	0	0	0	%100
80	M46	X	.003	.003	0	%100
81	M47	X	0	0	0	%100
82	M48	X	0	0	0	%100
83	M49	X	.003	.003	0	%100
84	M50	X	0	0	0	%100
85	M51	X	0	0	0	%100
86	M54A	X	.002	.002	0	%100
87	M55	X	.002	.002	0	%100
88	M56	X	.002	.002	0	%100
89	M57	X	.003	.003	0	%100
90	M58	X	.003	.003	0	%100
91	M59	X	.003	.003	0	%11.9
92	M56A	X	.002	.002	0	%100
93	M57A	X	.002	.002	0	%100
94	M56B	X	.002	.002	0	%100
95	M57B	X	.002	.002	0	%100
96	M42A	X	.002	.002	0	%100
97	M43A	X	0	0	0	%100
98	M42B	X	0	0	0	%100
99	M43B	X	0	0	0	%100
100	M44A	X	0	0	0	%100
101	M45A	X	0	0	0	%100
102	M46A	X	0	0	0	%100
103	M47A	X	0	0	0	%100
104	M48A	X	.014	.014	0	%100
105	M49A	X	.014	.014	0	%100
106	M50A	X	.014	.014	0	%100
107	M51A	X	.014	.014	0	%100
108	M52	X	.014	.014	0	%100
109	M53	X	.014	.014	0	%100
110	M55A	X	.014	.014	0	%100
111	M56C	X	.014	.014	0	%100
112	M59	X	.003	.003	%38.1	%100

Member Area Loads

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



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Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distrib...	Area(Me...	Surface(...
1	Dead	None			-1		7			
2	Ice Dead	None					7	55		
3	Full Wind Antenna (0 Deg)	None					11			
4	Full Wind Antenna (30 Deg)	None					22			
5	Full Wind Antenna (60 Deg)	None					22			
6	Full Wind Antenna (90 Deg)	None					22			
7	Full Wind Antenna (120 Deg)	None					22			
8	Full Wind Antenna (150 Deg)	None					22			
9	Full Wind Members (0 Deg)	None						56		
10	Full Wind Members (30 Deg)	None						56		
11	Full Wind Members (60 Deg)	None						56		
12	Full Wind Members (90 Deg)	None						56		
13	Full Wind Members (120 Deg)	None						56		
14	Full Wind Members (150 Deg)	None						56		
15	Ice Wind Antenna (0 Deg)	None					11			
16	Ice Wind Antenna (30 Deg)	None					22			
17	Ice Wind Antenna (60 Deg)	None					22			
18	Ice Wind Antenna (90 Deg)	None					22			
19	Ice Wind Antenna (120 Deg)	None					22			
20	Ice Wind Antenna (150 Deg)	None					22			
21	Ice Wind Members (0 Deg)	None						112		
22	Ice Wind Members (30 Deg)	None						112		
23	Ice Wind Members (60 Deg)	None						112		
24	Ice Wind Members (90 Deg)	None						112		
25	Ice Wind Members (120 Deg)	None						112		
26	Ice Wind Members (150 Deg)	None						112		
27	Seismic Antenna (0 Deg)	None					7			
28	Seismic Antenna (90 Deg)	None					7			
29	Seismic Members (0 Deg)	None			-03					
30	Seismic Members (30 Deg)	None	.015		-026					
31	Seismic Members (60 Deg)	None	.026		-015					
32	Seismic Members (90 Deg)	None	.03							
33	Seismic Members (120 Deg)	None	.026		.015					
34	Seismic Members (150 Deg)	None	.015		.026					
35	Seismic Members (180 Deg)	None			.03					
36	Seismic Members (210 Deg)	None	-.015		.026					
37	Seismic Members (240 Deg)	None	-.026		.015					
38	Seismic Members (270 Deg)	None	-.03							
39	Seismic Members (300 Deg)	None	-.026		-.015					
40	Seismic Members (330 Deg)	None	-.015		-.026					
41	Seismic Vertical Antennas	None					7			
42	Man 1 (500 lbs)	None				1				
43	Man 2 (500 lbs)	None				1				
44	Man 3 (500 lbs)	None				1				
45	Man 4 (250 lbs)	None				1				
46	Man 5 (250 lbs)	None				1				
47	Man 6 (250 lbs)	None				1				

Load Combinations

	Description	So...	P...	S...	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..
1	1.4D	Yes	Y		1	1.4							
2	1.2D + 1.6W 0°	Yes	Y		1	1.2	3	1.6	9	1.6			
3	1.2D + 1.6W 30°	Yes	Y		1	1.2	4	1.6	10	1.6			
4	1.2D + 1.6W 60°	Yes	Y		1	1.2	5	1.6	11	1.6			



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Load Combinations (Continued)

	Description	So.	P...	S...	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.
5	1.2D + 1.6W 90°	Yes	Y		1	1.2	6	1.6	12	1.6				
6	1.2D + 1.6W 120°	Yes	Y		1	1.2	7	1.6	13	1.6				
7	1.2D + 1.6W 150°	Yes	Y		1	1.2	8	1.6	14	1.6				
8	1.2D + 1.6W 180°	Yes	Y		1	1.2	3	-1.6	9	-1.6				
9	1.2D + 1.6W 210°	Yes	Y		1	1.2	4	-1.6	10	-1.6				
10	1.2D + 1.6W 240°	Yes	Y		1	1.2	5	-1.6	11	-1.6				
11	1.2D + 1.6W 270°	Yes	Y		1	1.2	6	-1.6	12	-1.6				
12	1.2D + 1.6W 300°	Yes	Y		1	1.2	7	-1.6	13	-1.6				
13	1.2D + 1.6W 330°	Yes	Y		1	1.2	8	-1.6	14	-1.6				
14	1.2D + 1.0Di + 1.0Wi ...	Yes	Y		1	1.2	2	1	15	1	21	1		
15	1.2D + 1.0Di + 1.0Wi ...	Yes	Y		1	1.2	2	1	16	1	22	1		
16	1.2D + 1.0Di + 1.0Wi ...	Yes	Y		1	1.2	2	1	17	1	23	1		
17	1.2D + 1.0Di + 1.0Wi ...	Yes	Y		1	1.2	2	1	18	1	24	1		
18	1.2D + 1.0Di + 1.0Wi ...	Yes	Y		1	1.2	2	1	19	1	25	1		
19	1.2D + 1.0Di + 1.0Wi ...	Yes	Y		1	1.2	2	1	20	1	26	1		
20	1.2D + 1.0Di + 1.0Wi ...	Yes	Y		1	1.2	2	1	15	-1	21	-1		
21	1.2D + 1.0Di + 1.0Wi ...	Yes	Y		1	1.2	2	1	16	-1	22	-1		
22	1.2D + 1.0Di + 1.0Wi ...	Yes	Y		1	1.2	2	1	17	-1	23	-1		
23	1.2D + 1.0Di + 1.0Wi ...	Yes	Y		1	1.2	2	1	18	-1	24	-1		
24	1.2D + 1.0Di + 1.0Wi ...	Yes	Y		1	1.2	2	1	19	-1	25	-1		
25	1.2D + 1.0Di + 1.0Wi ...	Yes	Y		1	1.2	2	1	20	-1	26	-1		
26	1.2D + 1.5Lm_1 + 1.0...	Yes	Y		1	1.2	3	.073	9	.073	42	1.5		
27	1.2D + 1.5Lm_1 + 1.0...	Yes	Y		1	1.2	4	.073	10	.073	42	1.5		
28	1.2D + 1.5Lm_1 + 1.0...	Yes	Y		1	1.2	5	.073	11	.073	42	1.5		
29	1.2D + 1.5Lm_1 + 1.0...	Yes	Y		1	1.2	6	.073	12	.073	42	1.5		
30	1.2D + 1.5Lm_1 + 1.0...	Yes	Y		1	1.2	7	.073	13	.073	42	1.5		
31	1.2D + 1.5Lm_1 + 1.0...	Yes	Y		1	1.2	8	.073	14	.073	42	1.5		
32	1.2D + 1.5Lm_1 + 1.0...	Yes	Y		1	1.2	3	-.073	9	-.073	42	1.5		
33	1.2D + 1.5Lm_1 + 1.0...	Yes	Y		1	1.2	4	-.073	10	-.073	42	1.5		
34	1.2D + 1.5Lm_1 + 1.0...	Yes	Y		1	1.2	5	-.073	11	-.073	42	1.5		
35	1.2D + 1.5Lm_1 + 1.0...	Yes	Y		1	1.2	6	-.073	12	-.073	42	1.5		
36	1.2D + 1.5Lm_1 + 1.0...	Yes	Y		1	1.2	7	-.073	13	-.073	42	1.5		
37	1.2D + 1.5Lm_1 + 1.0...	Yes	Y		1	1.2	8	-.073	14	-.073	42	1.5		
38	1.2D + 1.5Lm_2 + 1.0...	Yes	Y		1	1.2	3	.073	9	.073	43	1.5		
39	1.2D + 1.5Lm_2 + 1.0...	Yes	Y		1	1.2	4	.073	10	.073	43	1.5		
40	1.2D + 1.5Lm_2 + 1.0...	Yes	Y		1	1.2	5	.073	11	.073	43	1.5		
41	1.2D + 1.5Lm_2 + 1.0...	Yes	Y		1	1.2	6	.073	12	.073	43	1.5		
42	1.2D + 1.5Lm_2 + 1.0...	Yes	Y		1	1.2	7	.073	13	.073	43	1.5		
43	1.2D + 1.5Lm_2 + 1.0...	Yes	Y		1	1.2	8	.073	14	.073	43	1.5		
44	1.2D + 1.5Lm_2 + 1.0...	Yes	Y		1	1.2	3	-.073	9	-.073	43	1.5		
45	1.2D + 1.5Lm_2 + 1.0...	Yes	Y		1	1.2	4	-.073	10	-.073	43	1.5		
46	1.2D + 1.5Lm_2 + 1.0...	Yes	Y		1	1.2	5	-.073	11	-.073	43	1.5		
47	1.2D + 1.5Lm_2 + 1.0...	Yes	Y		1	1.2	6	-.073	12	-.073	43	1.5		
48	1.2D + 1.5Lm_2 + 1.0...	Yes	Y		1	1.2	7	-.073	13	-.073	43	1.5		
49	1.2D + 1.5Lm_2 + 1.0...	Yes	Y		1	1.2	8	-.073	14	-.073	43	1.5		
50	1.2D + 1.5Lm_3 + 1.0...	Yes	Y		1	1.2	3	.073	9	.073	44	1.5		
51	1.2D + 1.5Lm_3 + 1.0...	Yes	Y		1	1.2	4	.073	10	.073	44	1.5		
52	1.2D + 1.5Lm_3 + 1.0...	Yes	Y		1	1.2	5	.073	11	.073	44	1.5		
53	1.2D + 1.5Lm_3 + 1.0...	Yes	Y		1	1.2	6	.073	12	.073	44	1.5		
54	1.2D + 1.5Lm_3 + 1.0...	Yes	Y		1	1.2	7	.073	13	.073	44	1.5		
55	1.2D + 1.5Lm_3 + 1.0...	Yes	Y		1	1.2	8	.073	14	.073	44	1.5		
56	1.2D + 1.5Lm_3 + 1.0...	Yes	Y		1	1.2	3	-.073	9	-.073	44	1.5		
57	1.2D + 1.5Lm_3 + 1.0...	Yes	Y		1	1.2	4	-.073	10	-.073	44	1.5		
58	1.2D + 1.5Lm_3 + 1.0...	Yes	Y		1	1.2	5	-.073	11	-.073	44	1.5		
59	1.2D + 1.5Lm_3 + 1.0...	Yes	Y		1	1.2	6	-.073	12	-.073	44	1.5		
60	1.2D + 1.5Lm_3 + 1.0...	Yes	Y		1	1.2	7	-.073	13	-.073	44	1.5		
61	1.2D + 1.5Lm_3 + 1.0...	Yes	Y		1	1.2	8	-.073	14	-.073	44	1.5		



Company : Nexius
 Designer : ADB
 Job Number : VZW467124A01-NX064
 Model Name : N_STONINGTON_2_CT

May 23, 2019
 1:21 PM
 Checked By: Jiazhu Hu

Load Combinations (Continued)

	Description	So.	P...	S...	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.
62	1.2D + 1.5Lv 1 0°	Yes	Y		1	1.2	45	1.5						
63	1.2D + 1.5Lv 1 30°	Yes	Y		1	1.2	45	1.5						
64	1.2D + 1.5Lv 1 60°	Yes	Y		1	1.2	45	1.5						
65	1.2D + 1.5Lv 1 90°	Yes	Y		1	1.2	45	1.5						
66	1.2D + 1.5Lv 1 120°	Yes	Y		1	1.2	45	1.5						
67	1.2D + 1.5Lv 1 150°	Yes	Y		1	1.2	45	1.5						
68	1.2D + 1.5Lv 1 180°	Yes	Y		1	1.2	45	1.5						
69	1.2D + 1.5Lv 1 210°	Yes	Y		1	1.2	45	1.5						
70	1.2D + 1.5Lv 1 240°	Yes	Y		1	1.2	45	1.5						
71	1.2D + 1.5Lv 1 270°	Yes	Y		1	1.2	45	1.5						
72	1.2D + 1.5Lv 1 300°	Yes	Y		1	1.2	45	1.5						
73	1.2D + 1.5Lv 1 330°	Yes	Y		1	1.2	45	1.5						
74	1.2D + 1.5Lv 2 0°	Yes	Y		1	1.2	46	1.5						
75	1.2D + 1.5Lv 2 30°	Yes	Y		1	1.2	46	1.5						
76	1.2D + 1.5Lv 2 60°	Yes	Y		1	1.2	46	1.5						
77	1.2D + 1.5Lv 2 90°	Yes	Y		1	1.2	46	1.5						
78	1.2D + 1.5Lv 2 120°	Yes	Y		1	1.2	46	1.5						
79	1.2D + 1.5Lv 2 150°	Yes	Y		1	1.2	46	1.5						
80	1.2D + 1.5Lv 2 180°	Yes	Y		1	1.2	46	1.5						
81	1.2D + 1.5Lv 2 210°	Yes	Y		1	1.2	46	1.5						
82	1.2D + 1.5Lv 2 240°	Yes	Y		1	1.2	46	1.5						
83	1.2D + 1.5Lv 2 270°	Yes	Y		1	1.2	46	1.5						
84	1.2D + 1.5Lv 2 300°	Yes	Y		1	1.2	46	1.5						
85	1.2D + 1.5Lv 2 330°	Yes	Y		1	1.2	46	1.5						
86	1.2D + 1.5Lv 3 0°	Yes	Y		1	1.2	47	1.5						
87	1.2D + 1.5Lv 3 30°	Yes	Y		1	1.2	47	1.5						
88	1.2D + 1.5Lv 3 60°	Yes	Y		1	1.2	47	1.5						
89	1.2D + 1.5Lv 3 90°	Yes	Y		1	1.2	47	1.5						
90	1.2D + 1.5Lv 3 120°	Yes	Y		1	1.2	47	1.5						
91	1.2D + 1.5Lv 3 150°	Yes	Y		1	1.2	47	1.5						
92	1.2D + 1.5Lv 3 180°	Yes	Y		1	1.2	47	1.5						
93	1.2D + 1.5Lv 3 210°	Yes	Y		1	1.2	47	1.5						
94	1.2D + 1.5Lv 3 240°	Yes	Y		1	1.2	47	1.5						
95	1.2D + 1.5Lv 3 270°	Yes	Y		1	1.2	47	1.5						
96	1.2D + 1.5Lv 3 300°	Yes	Y		1	1.2	47	1.5						
97	1.2D + 1.5Lv 3 330°	Yes	Y		1	1.2	47	1.5						

Envelope Joint Reactions

	Joint	X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC	
1	N89	m...	.896	8	.123	8	.49	2	0	97	0	97	0	97
2		m...	-.921	2	-.117	13	-.518	7	0	1	0	1	0	1
3	N92	m...	.454	2	.102	8	1.181	2	0	97	0	97	0	97
4		m...	-.457	8	-.076	2	-1.189	8	0	1	0	1	0	1
5	N88	m...	1.745	12	2.11	14	-.249	2	.09	8	4.01	12	.422	12
6		m...	-2.557	6	.576	8	-2.612	20	-5.19	14	-5.548	6	-.469	6
7	N87	m...	1.232	97	.7	24	2.681	14	-4.98	8	2.807	12	1.279	97
8		m...	-1.175	53	-.173	7	.546	8	-1.771	25	-2.216	54	-1.305	60
9	Totals:	m...	2.21	11	2.823	24	2.558	2						
10		m...	-2.21	5	.989	6	-2.558	8						



Company : Nexius
 Designer : ADB
 Job Number : VZW467124A01-NX064
 Model Name : N_STONINGTON_2_CT

May 23, 2019
 1:21 PM
 Checked By: Jiazhu Hu

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

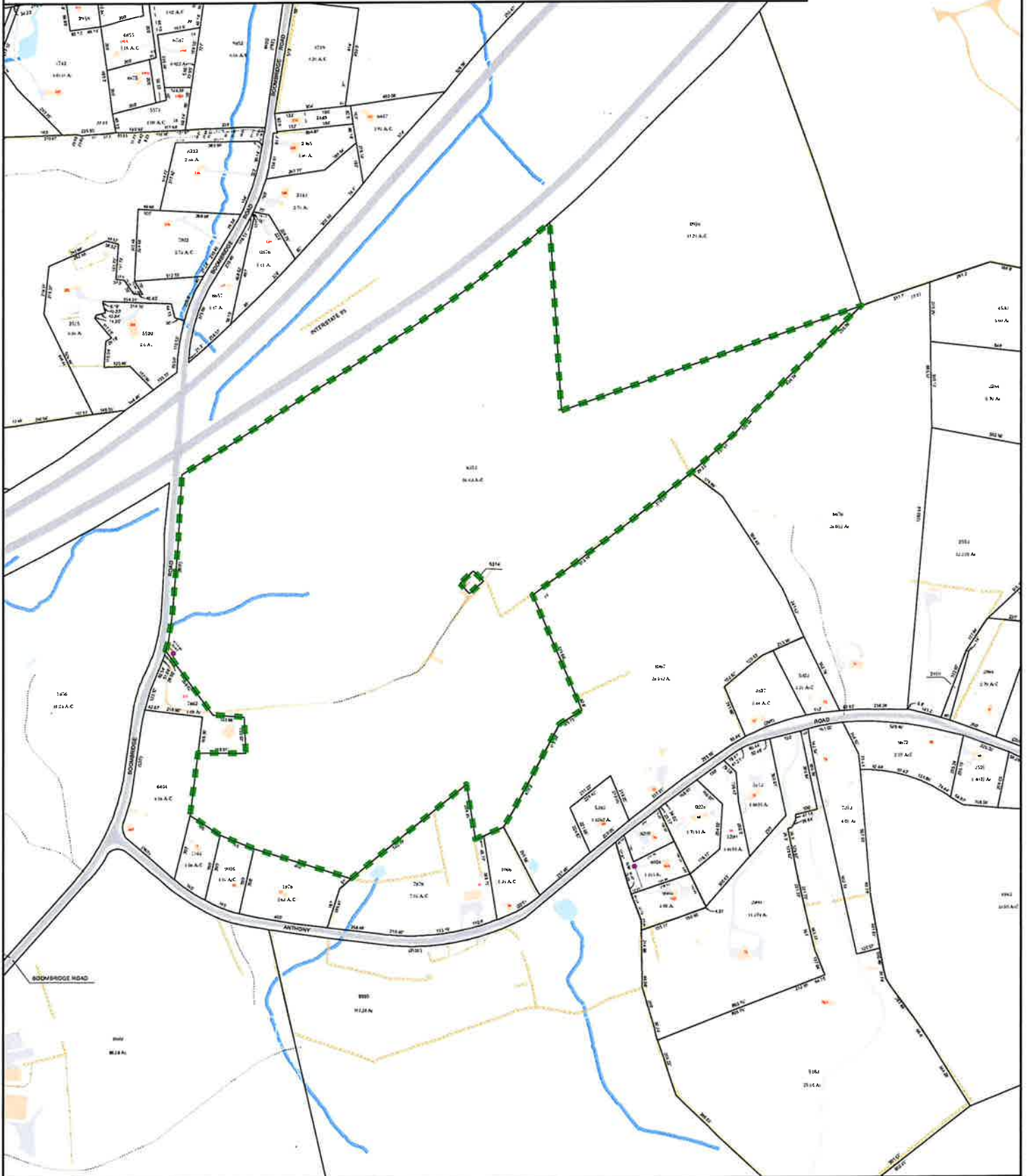
Member	Shape	Code C...	Loc[ft]	LC Shear ...	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y...	phi*Mn z...	Cb	Eqn	
1	M1	PIPE 4.0	.293	1.688	6	.492	1.25	6	97.447	111.888	12.757	12.757	3...	H3-6
2	M4	PIPE 3	1.174	0	6	.334	0	6	61.64	62.623	4.679	4.679	2...	H1-1b
3	M5	PIPE 3	.462	0	97	.216	1.061	60	61.64	62.623	4.679	4.679	2...	H1-1b
4	M28	SR 3/4	2.117	.323	2	.345	.323	8	3.761	14.321	.184	.184	1...	H1-1b
5	M29	SR 3/4	.028	1.292	8	.304	0	8	3.761	14.321	.184	.184	1	H1-1b
6	M30	SR 3/4	.041	1.292	21	.101	0	2	3.761	14.321	.184	.184	1...	H1-1b
7	M31	SR 3/4	.113	1.856	24	.070	0	8	1.821	14.321	.184	.184	1...	H1-1b
8	M32	SR 3/4	.860	1.779	14	.098	3.713	8	1.821	14.321	.184	.184	1...	H1-1a
9	M33	SR 3/4	1.646	.35	2	.161	.323	7	3.761	14.321	.184	.184	1...	H1-1b
10	M34	SR 3/4	.031	1.292	22	.175	0	6	3.761	14.321	.184	.184	1...	H1-1b
11	M35	SR 3/4	.036	1.292	15	.300	0	6	3.761	14.321	.184	.184	1...	H1-1b
12	M36	SR 3/4	.114	3.713	6	.058	3.713	6	1.821	14.321	.184	.184	1...	H1-1b*
13	M37	SR 3/4	.876	1.74	39	.103	3.713	6	1.821	14.321	.184	.184	1...	H1-1a
14	M40	PIPE 2.0	.743	2.917	8	.302	3.937	8	19.051	38.556	2.246	2.246	1...	H3-6
15	M43	PIPE 2.0	.149	2.917	8	.182	2.917	2	19.051	38.556	2.246	2.246	1...	H1-1b
16	M46	PIPE 2.0	.238	2.917	11	.082	2.917	12	19.051	38.556	2.246	2.246	2...	H1-1b
17	M49	PIPE 2.0	.235	2.917	11	.194	2.917	6	19.051	38.556	2.246	2.246	2...	H1-1b
18	M54A	SR 1	.063	2.583	19	.088	0	6	11.326	25.447	.424	.424	1...	H1-1b*
19	M55	SR 1	.178	2.583	14	.230	0	6	11.326	25.447	.424	.424	1	H1-1b*
20	M56	SR 1	.117	1.454	15	.094	0	97	9.112	25.447	.424	.424	1...	H1-1b
21	M59	PIPE 2.0	.318	3.292	6	.363	3.292	6	30.628	38.556	2.246	2.246	1...	H3-6
22	M56A	PIPE 1.25	.959	7.463	6	.665	7.542	5	5.075	23.625	.961	.961	4...	H1-1b
23	M57A	PIPE 1.25	.662	4.478	6	.633	0	4	5.075	23.625	.961	.961	2...	H1-1a
24	M56B	PIPE 1.25	.998	7.463	16	.573	7.542	58	5.075	23.625	.961	.961	4...	H1-1a
25	M57B	PIPE 1.25	.824	.079	58	.575	0	58	5.075	23.625	.961	.961	3...	H1-1a
26	M42A	PIPE 1.25	.180	7.028	2	.005	0	25	5.844	23.625	.961	.961	1...	H1-1b*
27	M43A	PIPE 1.25	.278	3.925	2	.006	7.69	16	4.881	23.625	.961	.961	1...	H1-1a
28	M42B	PL 0.5	.854	0	6	.716	0	y 6	62.914	81	.844	8.438	2...	H1-1b
29	M43B	PL 0.5	.304	0	2	.736	0	y 6	62.914	81	.844	8.438	2...	H1-1b
30	M44A	PL 0.375 Thick	.254	.333	4	.302	.083	y 60	45.573	60.75	.475	6.328	1...	H1-1b
31	M45A	PL 0.375 Thick	.324	.333	6	.308	.083	y 6	45.573	60.75	.475	6.328	1...	H1-1b
32	M46A	PL 0.375 Thick	.197	.333	58	.292	.083	y 60	45.573	60.75	.475	6.328	1...	H1-1b
33	M47A	PL 0.375 Thick	.212	.333	97	.319	.083	y 6	45.573	60.75	.475	6.328	1...	H1-1b

ATTACHMENT 4

Town of North Stonington, Connecticut - Assessment Parcel Map

Parcel: 119-6313

Address: 227 BOOMBRIDGE RD



Approximate Scale: 1:7,200

0 140 280 560 840 1,120 Feet

Map Produced
November 2018

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



Town of North Stonington, CT

Property Listing Report

Map Block Lot

119-6313

Account

L9857500

Property Information

Property Location	227 BOOMBRIDGE RD
Owner	LEWIS DAVID BABCOCK LLC
Co-Owner	
Mailing Address	273 BOOMBRIDGE RD NORTH STONINGTON CT 06359
Land Use	7131 Tillable B 490
Land Class	S
Zoning Code	R60
Census Tract	7071
Sub Lot	
Neighborhood	
Acreage	95.3
Utilities	
Lot Setting/Desc	Rural Rolling
Survey Map	
Additional Info	

Photo



Sketch

Primary Construction Details

Year Built	
Stories	
Building Style	
Building Use	
Building Condition	
Floors	
Total Rooms	

Bedrooms	
Full Bathrooms	
Half Bathrooms	
Bath Style	
Kitchen Style	
Roof Style	
Roof Cover	

Exterior Walls	
Interior Walls	
Heating Type	
Heating Fuel	
AC Type	
Gross Bldg Area	
Total Living Area	

ATTACHMENT 5



Certificate of Mailing — Firm

Name and Address of Sender

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

TOTAL NO.
of Pieces Listed by Sender

3

TOTAL NO.
of Pieces Received at Post Office™

3

Affix Stamp Here

Postmark with Date of Receipt.

neopost®
10/11/2019
US POSTAGE \$002.79
ZIP 06103
041L12209937

Postmaster, per (name of receiving employee)

J.R.

USPS® Tracking Number
Firm-specific Identifier

Address
(Name, Street, City, State, and ZIP Code™)

Parcel Airlift

Special Handling

Fee

Postage

1.

Michael A. Urgo, First Selectman
Town of North Stonington
40 Main Street
North Stonington, CT 06359

2.

Juliet Hodge, Planning, Development and
Zoning Official
Town of North Stonington
40 Main Street
North Stonington, CT 06359

3.

David Babcock Lewis, LLC
273 Boom Bridge Road
North Stonington, CT 06359

4.

5.

6.



N. Stonington 2