



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

August 17, 2022

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

**RE: Notice of Exempt Modification for T-Mobile: CTNH518A  
Crown Site ID# 876362  
338 Oxford Road, Oxford, CT 06478  
Latitude: 41° 25' 40.77" / Longitude: -73° 6' 30.75"**

Dear Ms. Bachman:

T-Mobile currently maintains six (6) antennas at the 152' mount on the existing 150' monopole tower located at 338 Oxford Road, Oxford, CT. The property and tower are owned by Crown Castle. T-Mobile now intends to replace six (6) antennas, add three (3) new antennas and ancillary equipment at the 152' level. This modification/proposal includes hardware that is both 4G (LTE) and 5G capable through remote software configuration and either or both services may be turned on or off at various times.

**Panned Modification:**

**Tower:**

Installed New:

- (3) Ericsson Air 6419 B41 Antennas
- (3) Commscope- W-65B-R1 Antennas
- (3) RFS APXAALL24-43-U-NA20
- (3) Ericsson-Radio 4460 B25+ B66 RRU
- (3) Ericsson-Radio 4480 B71+ B85 RRU
- (3) Hybrid Cable 6x24
- Mount Modification

Remove:

- (3) RFS APXVTM14-ALU-120 Antennas
- (3) RFS APXVSP18-C-A20 Antennas
- (4) Alcatel Lucent -TD-RRH8x20-25 RRH
- (3) Alcatel Lucent -RRH2x50-800 RRH
- (9) RFS – ACU-A20-N
- (9) Alcatel Lucent - 800 External Filters.
- (2) Alcatel Lucent RRH4X45-19 RRH
- (6) 7/8" Coaxial Cables
- (5) Hybrid Cables
- (1) 6x18 Hybrid Cables

**Ground:**

Install New:

- (1) RP 6651
- (2) PSU 4813 Voltage Booster

Remove:

- (1) RBS 6131 Cabinet
- (3.) DUW30
- (6.) RUS01 B4
- (3) RUS01 B2

The original facility was approved by the Town of Oxford, although, a copy of the approval was not available.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to George Temple, First Selectman, Town of Oxford, CT and Steven Macary, Zoning Enforcement Officer, Town of Oxford, CT. Crown Castle is the property and tower owner.

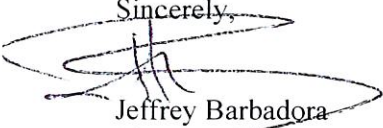
1. The proposed modifications will not result in an increase in the height of the existing tower.
2. The proposed modifications will not require the extension of the site boundary.
3. The proposed modification will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communication Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, T-Mobile respectfully submits that the proposed modifications to the above-reference telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2). Please send approval/rejection letter to Attn: Jeffrey Barbadora.

Melanie A. Bachman

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Sincerely,



Jeffrey Barbadora  
Site Acquisition Specialist

1800 W. Park Drive  
Westborough, MA 01581

(781) 970-0053

Jeff.Barbadora@crowncastle.com

Attachments

cc:

George Temple, First Selectman  
Town of Oxford  
486 Oxford Road  
Oxford, CT 06478  
203-888-2543 ext. 3034

Steven Macary, ZEO  
Town of Oxford  
486 Oxford Road  
Oxford, CT 06478  
203-828-6503

Crown Castle – Property and Tower Owner

# 338 OXFORD RD

**Location** 338 OXFORD RD

**Mblu** 34/ 9/ 34/A CELL/

**Acct#** T1234567

**Owner** CROWN CASTLE USA INC

**Assessment** \$360,600

**Appraisal** \$515,200

**PID** 5681

**Building Count** 1

## Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2021	\$515,200	\$0	\$515,200

Assessment			
Valuation Year	Improvements	Land	Total
2021	\$360,600	\$0	\$360,600

## Owner of Record

**Owner** CROWN CASTLE USA INC  
**Co-Owner** TAX DEPT  
**Address** PMB 331  
 4017 WASHINGTON RD  
 MCMURRAY , PA 15317

**Sale Price** \$0  
**Book & Page** 000/ 000  
**Sale Date** 10/01/2010  
**Instrument**

## Ownership History

Ownership History				
Owner	Sale Price	Book & Page	Instrument	Sale Date
CROWN CASTLE USA INC	\$0	000/ 000		10/01/2010
FRITZ WILLIAM E JR & ELLEN S	\$0	84/ 199		01/01/1900

## Building Information

### Building 1 : Section 1

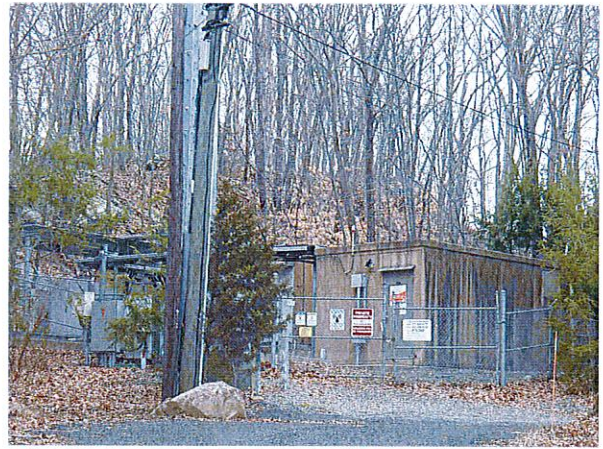
**Year Built:**  
**Living Area:** 0  
**Replacement Cost:** \$0  
**Building Percent Good:**  
**Replacement Cost**  
**Less Depreciation:** \$0



### Building Attributes


Field	Description
Style	Outbuildings
Model	
Grade:	
Stories	
Occupancy	
Exterior Wall 1	
Exterior Wall 2	
Roof Structure	
Roof Cover	
Interior Wall 1	
Interior Wall 2	
Interior Flr 1	
Interior Flr 2	
Heat Fuel	
Heat Type:	
AC Type:	
Total Bedrooms:	
Full Bthrms:	
Half Baths:	
Extra Fixtures	
Total Rooms:	
Bath Style:	
Kitchen Style:	
Extra Kitchens	
Fireplace(s)	
Extra Opening(s)	
Gas Fireplace(s)	
Blocked FPL(s)	
Woodstove(s)	
Bsmt Garage(s)	
SF Fin Bsmt	
FBM Quality	
Dormer LF	
Int Millwork	
Ext Millwork	
Foundation	

### Building Photo



(<https://images.vgsi.com/photos/OxfordCTPhotos/\00\00\95\69.jpg>)

### Building Layout

 Building Layout

([https://images.vgsi.com/photos/OxfordCTPhotos//Sketches/5681\\_20176.ji](https://images.vgsi.com/photos/OxfordCTPhotos//Sketches/5681_20176.ji))

Building Sub-Areas (sq ft)	Legend
No Data for Building Sub-Areas	

### Extra Features

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**Extra Features**

**Legend**

No Data for Extra Features

**Land**

**Land Use**

**Use Code** 307  
**Description** Cell Tower  
**Zone**  
**Neighborhood**  
**Alt Land Appr** No  
**Category**

**Land Line Valuation**

**Size (Acres)** 0  
**Frontage**  
**Depth**  
**Assessed Value** \$0  
**Appraised Value** \$0

**Outbuildings**

**Outbuildings**

**Legend**

Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
FN3	Fence 6'			260 L.F.	\$1,200	1
SHD4	Cell Shed			240 S.F.	\$64,800	1
SHD4	Cell Shed			360 S.F.	\$97,200	1
CELL	Cell Site			2 SITES	\$352,000	1

**Valuation History**

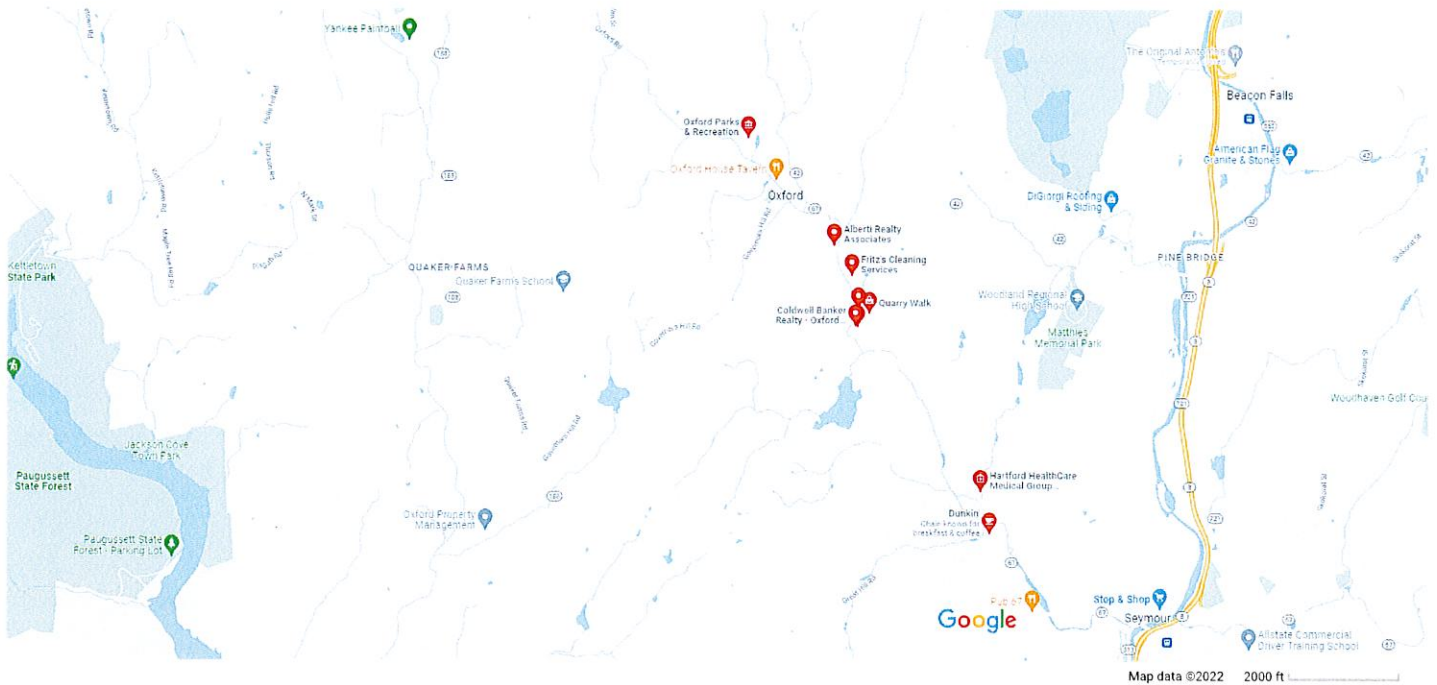
**Appraisal**

Valuation Year	Improvements	Land	Total
2021	\$515,200	\$0	\$515,200
2019	\$691,200	\$0	\$691,200
2018	\$691,200	\$0	\$691,200

**Assessment**

Valuation Year	Improvements	Land	Total
2021	\$360,600	\$0	\$360,600
2019	\$483,800	\$0	\$483,800
2018	\$483,800	\$0	\$483,800

338 OXFORD RD OXFORD, CT 06384



Map data ©2022 2000 ft

### Fritz's Cleaning Services

No reviews

House cleaning service · 338 Oxford Rd  
(203) 881-9041



Directions

### Oxford Parks & Recreation

3.0 (2)

City government office · 486 Oxford Rd  
(203) 828-6505



Website



Directions

### Hartford HealthCare Medical Group Primary Care

No reviews

Internist · 100 Oxford Rd Hm

Open · Closes 5PM · (203) 888-9940



Website



Directions

### Coldwell Banker Realty - Oxford Regional Office

4.2 (5)

Real estate agency · 276 Oxford Rd

Open · Closes 5PM · (203) 888-1845



Website



Directions

### Premier Urgent Care and Walk-in Clinic Oxford CT

4.8 (614)

Urgent care center · 278 Oxford Rd

Open · Closes 8PM · (475) 675-5502



Website



Directions

### 67 West Hair Designers

4.9 (23)

Hair salon · 300 Oxford Rd

Open · Closes 6PM · (203) 888-2949



Website



Directions

### Alberti Realty Associates

3.7 (3)

Real estate agency · 369 Oxford Rd

(203) 888-0430



Website



Directions



Barbadora, Jeff

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**From:** TrackingUpdates@fedex.com  
**Sent:** Thursday, August 18, 2022 10:18 AM  
**To:** Barbadora, Jeff  
**Subject:** FedEx Shipment 777686062732: Your package has been delivered

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



Hi. Your package was  
delivered Thu, 08/18/2022 at  
10:16am.



Delivered to 486 OXFORD RD, OXFORD, CT 06478  
Received by C PECK

**OBTAIN PROOF OF DELIVERY**

TRACKING NUMBER [777686062732](#)

<b>FROM</b>	Jeff Barbadora 1800 W. Park Drive WESTBOROUGH, MA, US, 01581
<b>TO</b>	Town of Oxford George Temple, First Selectman 486 Oxford Road OXFORD, CT, US, 06478
<b>REFERENCE</b>	799001.7680
<b>SHIPPER REFERENCE</b>	799001.7680
<b>SHIP DATE</b>	Wed 8/17/2022 05:40 PM
<b>DELIVERED TO</b>	Receptionist/Front Desk
<b>PACKAGING TYPE</b>	FedEx Envelope
<b>ORIGIN</b>	WESTBOROUGH, MA, US, 01581
<b>DESTINATION</b>	OXFORD, CT, US, 06478
<b>SPECIAL HANDLING</b>	Deliver Weekday
<b>NUMBER OF PIECES</b>	1
<b>TOTAL SHIPMENT WEIGHT</b>	1.00 LB
<b>SERVICE TYPE</b>	FedEx Priority Overnight



**Barbadora, Jeff**

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**From:** TrackingUpdates@fedex.com  
**Sent:** Thursday, August 18, 2022 10:19 AM  
**To:** Barbadora, Jeff  
**Subject:** FedEx Shipment 777686083719: Your package has been delivered

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Hi. Your package was  
delivered Thu, 08/18/2022 at  
10:16am.



Delivered to 486 OXFORD RD, OXFORD, CT 06478  
Received by C PECK

**OBTAIN PROOF OF DELIVERY**

TRACKING NUMBER [777686083719](#)

<b>FROM</b>	Jeff Barbadora 1800 W. Park Drive WESTBOROUGH, MA, US, 01581
<b>TO</b>	Town of Oxford Steven Macary, Zoning Enforcement 486 Oxford Road OXFORD, CT, US, 06478
<b>REFERENCE</b>	799001.7680
<b>SHIPPER REFERENCE</b>	799001.7680
<b>SHIP DATE</b>	Wed 8/17/2022 05:40 PM
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<b>DESTINATION</b>	OXFORD, CT, US, 06478
<b>SPECIAL HANDLING</b>	Deliver Weekday
<b>NUMBER OF PIECES</b>	1
<b>TOTAL SHIPMENT WEIGHT</b>	0.50 LB
<b>SERVICE TYPE</b>	FedEx Priority Overnight

Date: **June 28, 2022**



Tower Engineering Professionals  
326 Tryon Road  
Raleigh, NC 27603  
(919) 661-6351

**Subject: Structural Analysis Report**

**Carrier Designation:**

**Site Number:** CTNH518A  
**Site Name:** CT23XC508

**Crown Castle Designation:**

**BU Number:** 876362  
**Site Name:** OXFORD / FRITZ PROPERTY  
**JDE Job Number:** 721832  
**Work Order Number:** 2130527  
**Order Number:** 621867 Rev. 0

**Engineering Firm Designation:**

**TEP Project Number:** 25611.715545

**Site Data:**

**338 Oxford Rd., Oxford, New Haven County, CT 06478**  
**Latitude 41° 25' 40.77", Longitude -73° 6' 30.75"**  
**150 Foot - Monopole Tower**

*Tower Engineering Professionals* is pleased to submit this "**Structural Analysis Report**" to determine the structural integrity of the above-mentioned tower.

The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC7: Proposed Equipment Configuration

**Sufficient Capacity – 78.6%**

This analysis utilizes an ultimate 3-second gust wind speed of 118 mph as required by the 2018 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Matthew Crispi, E.I. / DEN

Respectfully submitted by:

Aaron T. Rucker, P.E.



Electronic Copy

06/29/2022

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## 1) INTRODUCTION

This tower is a 150-ft monopole tower designed by Engineered Endeavors, Inc. The tower has been modified multiple times in the past to accommodate additional loading.

## 2) ANALYSIS CRITERIA

<b>TIA-222 Revision:</b>	TIA-222-H
<b>Risk Category:</b>	II
<b>Wind Speed:</b>	118 mph
<b>Exposure Category:</b>	B
<b>Topographic Factor:</b>	1.0
<b>Ice Thickness:</b>	1.0 in
<b>Wind Speed with Ice:</b>	50 mph
<b>Service Wind Speed:</b>	60 mph

**Table 1 - Proposed Equipment Configuration**

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
152.0	152.0	3	Commscope	VV-65B-R1_TMO w/ Mount Pipe	3	1-5/8
		3	Ericsson	AIR 6419 B41_TMO w/ Mount Pipe		
		3	RFS Celwave	APXVAALL24_43-U-NA20_TMO w/ Mount Pipe		
		3	Ericsson	RADIO 4460 B2/B25 B66_TMO		
		3	Ericsson	Radio 4480_TMOV2		
		1	Generic	2" STD x 4' Pipe		
		1	SitePro1	SCX1-K		
		1	Tower Mounts	Platform Mount [LP 602-1]		
75.0	75.0	1	Kathrein	OG-860/1920/GPS-A	1	1/2
		1	Tower Mounts	Side Arm Mount [SO 701-1]		



**Table 2 - Other Considered Equipment**

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
137.0	139.0	3	Powerwave Technologies	7770.00 w/ Mount Pipe	12	1-1/4
		4	Andrew	SBNH-1D6565C w/ Mount Pipe		
		2	KMW Comm.	AM-X-CD-16-65-00T-RET w/ Mount Pipe		
		3	Powerwave Technologies	7020.00		
		6	Powerwave Technologies	LGP21901		
		6	Communication Components Inc.	DTMABP7819VG12A		
		6	Adc	DD1900 FULL BAND W/850 BY-PASS MASTHEAD		
	1	Raycap	DC6-48-60-18-8F			
	137.0	1	Tower Mounts	Platform Mount [LP 714-1]		
136.0	136.0	6	Ericsson	RRUS 11 B12	1 2	3/8 3/4
		1	Raycap	DC6-48-60-18-8F		
		2	Tower Mounts	Pipe Mount [PM 601-3]		
127.0	129.0	6	RFS Celwave	APL866513-42T0 w/ Mount Pipe	13 1	1-5/8 1/2
		6	Commscope	HBXX-6517DS-A2M w/ Mount Pipe		
		1	Antel	BXA-70040/4CF w/ Mount Pipe		
		2	Antel	BXA-70063-4CF-EDIN-X w/ Mount Pipe		
		1	Gps	GPS_A		
		6	RFS Celwave	FD9R6004/2C-3L		
		3	Alcatel Lucent	RRH2X60-PCS		
		3	Alcatel Lucent	RRH2X60-AWS		
	1	RFS Celwave	DB-T1-6Z-8AB-0Z			
	127.0	1	Tower Mounts	Platform Mount [LP 714-1]		
117.0	117.0	3	RFS Celwave	APXV18-206517S-C-A20	7 1	1-5/8 3/8
		3	RFS Celwave	APXVAALL24_43-U-NA20		
		3	Ericsson	RADIO 4449 B12/B71		
		1	Tower Mounts	Platform Mount [LP 1302-1]		
107.0	107.0	3	Jma Wireless	MX08FRO665-21 w/ Mount Pipe	1	1-1/2
		3	Fujitsu	TA08025-B604		
		3	Fujitsu	TA08025-B605		
		1	Raycap	RDIDC-9181-PF-48		
		1	Tower Mounts	Commscope MC-PK8-DSH		

### 3) ANALYSIS PROCEDURE

**Table 3 - Documents Provided**

Document	Reference	Source
Geotechnical Report	1531939	CCISites
Tower Foundation Drawings	1440552	CCISites
Tower Manufacturer Drawings	1441271	CCISites
Tower Reinforcement Drawings	2364904	CCISites
Post-Modification Inspection	2364903	CCISites
Tower Reinforcement Drawings	3041498	CCISites
Post-Modification Inspection	3192205	CCISites
Tower Reinforcement Drawings	3274216	CCISites
Post-Modification Inspection	3872724	CCISites
Tower Reinforcement Drawings	4870951	CCISites
Post-Modification Inspection	5301920	CCISites
Tower Reinforcement Drawings	5632043	CCISites
Post-Modification Inspection	6119183	CCISites

#### 3.1) Analysis Method

tnxTower (version 8.1.1.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 Standard.

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

RISA-3D, a commercially available analysis software package, was used to model and analyze the foundation. Selected output from the analysis is included in Appendix C.

#### 3.2) Assumptions

- 1) The tower and structures were maintained in accordance with the TIA-222 Standard.
- 2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2, and the referenced drawings.

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

### 4) ANALYSIS RESULTS

**Table 4 - Section Capacity (Summary)<sup>1,2</sup>**

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
150 - 145	Pole	TP16.08x15x0.1875	Pole	14.8%	Pass
145 - 140	Pole	TP17.16x16.08x0.1875	Pole	22.7%	Pass
140 - 135	Pole	TP18.239x17.16x0.1875	Pole	33.3%	Pass

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
135 - 130	Pole	TP19.319x18.239x0.1875	Pole	44.6%	Pass
130 - 126.59	Pole	TP20.74x19.319x0.1875	Pole	54.0%	Pass
126.59 - 122.25	Pole	TP20.603x19.68x0.25	Pole	50.0%	Pass
122.25 - 122	Pole + Reinf.	TP20.656x20.603x0.4125	Reinf. 22 Tension Rupture	56.8%	Pass
122 - 120.25	Pole + Reinf.	TP21.029x20.656x0.4125	Reinf. 22 Tension Rupture	60.7%	Pass
120.25 - 120	Pole + Reinf.	TP21.082x21.029x0.575	Reinf. 22 Tension Rupture	44.6%	Pass
120 - 115.25	Pole + Reinf.	TP22.092x21.082x0.5625	Reinf. 22 Tension Rupture	53.1%	Pass
115.25 - 115	Pole + Reinf.	TP22.145x22.092x0.4	Reinf. 19 Tension Rupture	72.9%	Pass
115 - 114.75	Pole + Reinf.	TP22.198x22.145x0.55	Reinf. 19 Tension Rupture	54.0%	Pass
114.75 - 109.75	Pole + Reinf.	TP23.261x22.198x0.5375	Reinf. 19 Tension Rupture	63.0%	Pass
109.75 - 105.25	Pole + Reinf.	TP24.218x23.261x0.525	Reinf. 19 Tension Rupture	70.9%	Pass
105.25 - 105	Pole + Reinf.	TP24.271x24.218x0.7375	Reinf. 3 Tension Rupture	58.0%	Pass
105 - 101.92	Pole + Reinf.	TP24.926x24.271x0.725	Reinf. 3 Tension Rupture	62.5%	Pass
101.92 - 101.67	Pole + Reinf.	TP24.979x24.926x0.75	Reinf. 2 Tension Rupture	56.3%	Pass
101.67 - 101.25	Pole + Reinf.	TP25.069x24.979x0.75	Reinf. 2 Tension Rupture	56.8%	Pass
101.25 - 101	Pole + Reinf.	TP25.122x25.069x0.75	Reinf. 2 Tension Rupture	57.1%	Pass
101 - 100.25	Pole + Reinf.	TP25.281x25.122x0.75	Reinf. 2 Tension Rupture	58.1%	Pass
100.25 - 100	Pole + Reinf.	TP25.335x25.281x0.7375	Reinf. 2 Tension Rupture	58.4%	Pass
100 - 95	Pole + Reinf.	TP26.398x25.335x0.7125	Reinf. 2 Tension Rupture	64.2%	Pass
95 - 90.04	Pole + Reinf.	TP28.32x26.398x0.7	Reinf. 2 Tension Rupture	69.5%	Pass
90.04 - 85.04	Pole + Reinf.	TP28.018x26.952x0.75	Reinf. 2 Tension Rupture	69.6%	Pass
85.04 - 82	Pole + Reinf.	TP28.665x28.018x0.7375	Reinf. 2 Tension Rupture	72.0%	Pass
82 - 81.75	Pole + Reinf.	TP28.719x28.665x0.925	Reinf. 2 Tension Rupture	58.6%	Pass
81.75 - 77.5	Pole + Reinf.	TP29.624x28.719x0.9125	Reinf. 2 Tension Rupture	61.3%	Pass
77.5 - 77.25	Pole + Reinf.	TP29.677x29.624x0.7875	Reinf. 2 Tension Rupture	69.9%	Pass
77.25 - 75	Pole + Reinf.	TP30.157x29.677x0.775	Reinf. 2 Tension Rupture	71.4%	Pass
75 - 74.75	Pole + Reinf.	TP30.21x30.157x0.7125	Reinf. 2 Tension Rupture	77.1%	Pass
74.75 - 74.5	Pole + Reinf.	TP30.263x30.21x0.825	Reinf. 2 Tension Rupture	67.3%	Pass
74.5 - 72.17	Pole + Reinf.	TP30.76x30.263x0.8125	Reinf. 2 Tension Rupture	68.7%	Pass
72.17 - 71.92	Pole + Reinf.	TP30.813x30.76x0.8375	Reinf. 18 Tension Rupture	65.5%	Pass
71.92 - 68.75	Pole + Reinf.	TP31.488x30.813x0.8125	Reinf. 18 Tension Rupture	67.2%	Pass
68.75 - 68.5	Pole + Reinf.	TP31.542x31.488x0.9375	Reinf. 1 Tension Rupture	58.9%	Pass
68.5 - 63.5	Pole + Reinf.	TP32.607x31.542x0.9125	Reinf. 1 Tension Rupture	61.2%	Pass
63.5 - 58.5	Pole + Reinf.	TP33.672x32.607x0.8875	Reinf. 1 Tension Rupture	63.3%	Pass
58.5 - 53.5	Pole + Reinf.	TP34.737x33.672x0.8625	Reinf. 1 Tension Rupture	65.2%	Pass
53.5 - 48.5	Pole + Reinf.	TP35.803x34.737x0.8375	Reinf. 1 Tension Rupture	67.0%	Pass
48.5 - 47.58	Pole + Reinf.	TP37.1x35.803x0.8375	Reinf. 1 Tension Rupture	67.3%	Pass
47.58 - 41.41	Pole + Reinf.	TP36.687x35.374x0.725	Reinf. 17 Tension Rupture	70.9%	Pass
41.41 - 36.41	Pole + Reinf.	TP37.751x36.687x0.7125	Reinf. 17 Tension Rupture	72.1%	Pass
36.41 - 32.75	Pole + Reinf.	TP38.53x37.751x0.7	Reinf. 17 Tension Rupture	72.8%	Pass
32.75 - 32.5	Pole + Reinf.	TP38.583x38.53x0.75	Reinf. 15 Tension Rupture	72.3%	Pass
32.5 - 31.25	Pole + Reinf.	TP38.849x38.583x0.75	Reinf. 15 Tension Rupture	72.6%	Pass

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
31.25 - 31	Pole + Reinf.	TP38.902x38.849x0.7375	Reinf. 15 Tension Rupture	72.6%	Pass
31 - 26	Pole + Reinf.	TP39.966x38.902x0.725	Reinf. 15 Tension Rupture	73.5%	Pass
26 - 21	Pole + Reinf.	TP41.031x39.966x0.725	Reinf. 15 Tension Rupture	74.4%	Pass
21 - 18.75	Pole + Reinf.	TP41.509x41.031x0.7125	Reinf. 15 Tension Rupture	74.7%	Pass
18.75 - 18.5	Pole + Reinf.	TP41.563x41.509x0.7	Reinf. 14 Tension Rupture	74.4%	Pass
18.5 - 15	Pole + Reinf.	TP42.308x41.563x0.6875	Reinf. 14 Tension Rupture	74.9%	Pass
15 - 14.75	Pole + Reinf.	TP42.361x42.308x0.5875	Reinf. 8 Tension Rupture	77.9%	Pass
14.75 - 9.75	Pole + Reinf.	TP43.425x42.361x0.5813	Reinf. 8 Tension Rupture	78.3%	Pass
9.75 - 4.75	Pole + Reinf.	TP44.489x43.425x0.575	Reinf. 8 Tension Rupture	78.5%	Pass
4.75 - 1.25	Pole + Reinf.	TP45.234x44.489x0.575	Reinf. 8 Tension Rupture	78.7%	Pass
1.25 - 1	Pole + Reinf.	TP45.287x45.234x0.75	Reinf. 13 Compression	66.7%	Pass
1 - 0	Pole + Reinf.	TP45.5x45.287x0.75	Reinf. 13 Compression	66.8%	Pass
				Summary	
			Pole	60.4%	Pass
			Reinforcement	78.7%	Pass
			<b>Overall</b>	<b>78.7%</b>	<b>Pass</b>

**Table 5 - Tower Component Stresses vs. Capacity - LC7**

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1,2	Anchor Rods	-	56.1	Pass
1,2	Base Plate	-	35.7	Pass
1,2	Base Foundation Structural	-	10.8	Pass
1,2	Base Foundation Soil Interaction	-	4.4	Pass

<b>Structure Rating (max from all components) =</b>	<b>78.7%</b>
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Notes:

- 1) See additional documentation in "Appendix C - Additional Calculations" for calculations supporting the % capacity listed.
- 2) Rating per TIA-222-H Section 15.5

**4.1) Recommendations**

- 1) The tower and its foundation have sufficient capacity to carry the proposed load configuration. No modifications are required at this time.

**APPENDIX A**  
**TNXTOWER OUTPUT**





<b>tnxTower</b>  <b>Tower Engineering Professionals, Inc.</b> 326 Tryon Road Raleigh, NC 27603 Phone: (919) 661 6351 FAX: (919) 661 6350	<b>Job</b> Oxford / Fritz Property (BU 876362)	<b>Page</b> 1 of 65
	<b>Project</b> TEP No. 25611.715545	<b>Date</b> 13:32:04 06/28/22
	<b>Client</b> Crown Castle	<b>Designed by</b> djbrevig

## Tower Input Data

The tower is a monopole.

This tower is designed using the TIA-222-H standard.

The following design criteria apply:

Tower is located in New Haven County, Connecticut.

Tower base elevation above sea level: 373.0000 ft.

Basic wind speed of 118 mph.

Risk Category II.

Exposure Category B.

Simplified Topographic Factor Procedure for wind speed-up calculations is used.

Topographic Category: 1.

Crest Height: 0.0000 ft.

Nominal ice thickness of 1.0000 in.

Ice thickness is considered to increase with height.

Ice density of 56.00 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.

TOWER RATING: 78.6%.

A non-linear (P-delta) analysis was used.

Pressures are calculated at each section.

Stress ratio used in pole design is 1.

Tower analysis based on target reliabilities in accordance with Annex S.

Load Modification Factors used:  $K_{es}(F_w) = 0.95$ ,  $K_{es}(t_i) = 0.85$ .

Maximum demand-capacity ratio is: 1.05.

Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

## Options

<ul style="list-style-type: none"> <li>Consider Moments - Legs</li> <li>Consider Moments - Horizontals</li> <li>Consider Moments - Diagonals</li> <li>Use Moment Magnification</li> <li>√ Use Code Stress Ratios</li> <li>√ Use Code Safety Factors - Guys</li> <li>Escalate Ice</li> <li>Always Use Max Kz</li> <li>Use Special Wind Profile</li> <li>Include Bolts In Member Capacity</li> <li>Leg Bolts Are At Top Of Section</li> <li>Secondary Horizontal Braces Leg</li> <li>Use Diamond Inner Bracing (4 Sided)</li> <li>SR Members Have Cut Ends</li> <li>SR Members Are Concentric</li> </ul>	<ul style="list-style-type: none"> <li>Distribute Leg Loads As Uniform</li> <li>Assume Legs Pinned</li> <li>√ Assume Rigid Index Plate</li> <li>√ Use Clear Spans For Wind Area</li> <li>Use Clear Spans For KL/r</li> <li>Retension Guys To Initial Tension</li> <li>√ Bypass Mast Stability Checks</li> <li>√ Use Azimuth Dish Coefficients</li> <li>√ Project Wind Area of Appurt.</li> <li>Autocalc Torque Arm Areas</li> <li>Add IBC .6D+W Combination</li> <li>√ Sort Capacity Reports By Component</li> <li>Triangulate Diamond Inner Bracing</li> <li>Treat Feed Line Bundles As Cylinder</li> <li>Ignore KL/ry For 60 Deg. Angle Legs</li> </ul>	<ul style="list-style-type: none"> <li>Use ASCE 10 X-Brace Ly Rules</li> <li>Calculate Redundant Bracing Forces</li> <li>Ignore Redundant Members in FEA</li> <li>SR Leg Bolts Resist Compression</li> <li>All Leg Panels Have Same Allowable</li> <li>Offset Girt At Foundation</li> <li>√ Consider Feed Line Torque</li> <li>Include Angle Block Shear Check</li> <li>Use TIA-222-H Bracing Resist. Exemption</li> <li>Use TIA-222-H Tension Splice Exemption</li> <li style="text-align: center;">Poles</li> <li>√ Include Shear-Torsion Interaction</li> <li>Always Use Sub-Critical Flow</li> <li>Use Top Mounted Sockets</li> <li>Pole Without Linear Attachments</li> <li>Pole With Shroud Or No Appurtenances</li> <li>Outside and Inside Corner Radii Are Known</li> </ul>
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<p><b>tnxTower</b></p> <p><b>Tower Engineering Professionals, Inc.</b>  326 Tryon Road  Raleigh, NC 27603  Phone: (919) 661 6351  FAX: (919) 661 6350</p>	<b>Job</b>	Oxford / Fritz Property (BU 876362)	<b>Page</b>	2 of 65
	<b>Project</b>	TEP No. 25611.715545	<b>Date</b>	13:32:04 06/28/22
	<b>Client</b>	Crown Castle	<b>Designed by</b>	djbrevig

**Tapered Pole Section Geometry**

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	150.0000-145.000	5.0000	0.00	18	15.0000	16.0798	0.1875	0.7500	A572-65 (65 ksi)
L2	145.0000-140.000	5.0000	0.00	18	16.0798	17.1595	0.1875	0.7500	A572-65 (65 ksi)
L3	140.0000-135.000	5.0000	0.00	18	17.1595	18.2393	0.1875	0.7500	A572-65 (65 ksi)
L4	135.0000-130.000	5.0000	0.00	18	18.2393	19.3190	0.1875	0.7500	A572-65 (65 ksi)
L5	130.0000-123.4200	6.5800	3.17	18	19.3190	20.7400	0.1875	0.7500	A572-65 (65 ksi)
L6	123.4200-122.2500	4.3400	0.00	18	19.6804	20.6033	0.2500	1.0000	A572-65 (65 ksi)
L7	122.2500-122.000	0.2500	0.00	18	20.6033	20.6565	0.4125	1.6500	A572-65 (65 ksi)
L8	122.0000-120.2500	1.7500	0.00	18	20.6565	21.0286	0.4125	1.6500	A572-65 (65 ksi)
L9	120.2500-120.000	0.2500	0.00	18	21.0286	21.0817	0.5750	2.3000	A572-65 (65 ksi)
L10	120.0000-115.2500	4.7500	0.00	18	21.0817	22.0918	0.5625	2.2500	A572-65 (65 ksi)
L11	115.2500-115.000	0.2500	0.00	18	22.0918	22.1449	0.4000	1.6000	A572-65 (65 ksi)
L12	115.0000-114.7500	0.2500	0.00	18	22.1449	22.1981	0.5500	2.2000	A572-65 (65 ksi)
L13	114.7500-109.7500	5.0000	0.00	18	22.1981	23.2613	0.5375	2.1500	A572-65 (65 ksi)
L14	109.7500-105.2500	4.5000	0.00	18	23.2613	24.2182	0.5250	2.1000	A572-65 (65 ksi)
L15	105.2500-105.000	0.2500	0.00	18	24.2182	24.2713	0.7375	2.9500	A572-65 (65 ksi)
L16	105.0000-101.9200	3.0800	0.00	18	24.2713	24.9263	0.7250	2.9000	A572-65 (65 ksi)
L17	101.9200-101.6700	0.2500	0.00	18	24.9263	24.9794	0.7500	3.0000	A572-65 (65 ksi)
L18	101.6700-101.2500	0.4200	0.00	18	24.9794	25.0687	0.7500	3.0000	A572-65 (65 ksi)
L19	101.2500-101.000	0.2500	0.00	18	25.0687	25.1219	0.7500	3.0000	A572-65 (65 ksi)
L20	101.0000-100.2500	0.7500	0.00	18	25.1219	25.2814	0.7500	3.0000	A572-65 (65 ksi)
L21	100.2500-100.000	0.2500	0.00	18	25.2814	25.3345	0.7375	2.9500	A572-65 (65 ksi)
L22	100.0000-95.0000	5.0000	0.00	18	25.3345	26.3977	0.7125	2.8500	A572-65 (65 ksi)
L23	95.0000-85.9600	9.0400	4.08	18	26.3977	28.3200	0.7000	2.8000	A572-65 (65 ksi)
L24	85.9600-85.0400	5.0000	0.00	18	26.9524	28.0177	0.7500	3.0000	A572-65 (65 ksi)
L25	85.0400-82.0000	3.0400	0.00	18	28.0177	28.6654	0.7375	2.9500	A572-65 (65 ksi)
L26	82.0000-81.7500	0.2500	0.00	18	28.6654	28.7186	0.9250	3.7000	A572-65 (65 ksi)
L27	81.7500-77.5000	4.2500	0.00	18	28.7186	29.6241	0.9125	3.6500	A572-65 (65 ksi)
L28	77.5000-77.2500	0.2500	0.00	18	29.6241	29.6773	0.7875	3.1500	A572-65 (65 ksi)
L29	77.2500-75.0000	2.2500	0.00	18	29.6773	30.1567	0.7750	3.1000	A572-65 (65 ksi)

**tnxTower****Tower Engineering Professionals, Inc.**

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Section	Elevation	Section Length	Splice Length	Number of Sides	Top Diameter	Bottom Diameter	Wall Thickness	Bend Radius	Pole Grade
	ft	ft	ft		in	in	in	in	
L30	75.0000-74.7500	0.2500	0.00	18	30.1567	30.2100	0.7125	2.8500	A572-65 (65 ksi)
L31	74.7500-74.5000	0.2500	0.00	18	30.2100	30.2632	0.8250	3.3000	A572-65 (65 ksi)
L32	74.5000-72.1700	2.3300	0.00	18	30.2632	30.7596	0.8125	3.2500	A572-65 (65 ksi)
L33	72.1700-71.9200	0.2500	0.00	18	30.7596	30.8129	0.8375	3.3500	A572-65 (65 ksi)
L34	71.9200-68.7500	3.1700	0.00	18	30.8129	31.4883	0.8125	3.2500	A572-65 (65 ksi)
L35	68.7500-68.5000	0.2500	0.00	18	31.4883	31.5415	0.9375	3.7500	A572-65 (65 ksi)
L36	68.5000-63.5000	5.0000	0.00	18	31.5415	32.6068	0.9125	3.6500	A572-65 (65 ksi)
L37	63.5000-58.5000	5.0000	0.00	18	32.6068	33.6720	0.8875	3.5500	A572-65 (65 ksi)
L38	58.5000-53.5000	5.0000	0.00	18	33.6720	34.7373	0.8625	3.4500	A572-65 (65 ksi)
L39	53.5000-48.5000	5.0000	0.00	18	34.7373	35.8025	0.8375	3.3500	A572-65 (65 ksi)
L40	48.5000-42.4100	6.0900	5.17	18	35.8025	37.1000	0.8375	3.3500	A572-65 (65 ksi)
L41	42.4100-41.4100	6.1700	0.00	18	35.3735	36.6867	0.7250	2.9000	A572-65 (65 ksi)
L42	41.4100-36.4100	5.0000	0.00	18	36.6867	37.7508	0.7125	2.8500	A572-65 (65 ksi)
L43	36.4100-32.7500	3.6600	0.00	18	37.7508	38.5298	0.7000	2.8000	A572-65 (65 ksi)
L44	32.7500-32.5000	0.2500	0.00	18	38.5298	38.5830	0.7500	3.0000	A572-65 (65 ksi)
L45	32.5000-31.2500	1.2500	0.00	18	38.5830	38.8491	0.7500	3.0000	A572-65 (65 ksi)
L46	31.2500-31.0000	0.2500	0.00	18	38.8491	38.9023	0.7375	2.9500	A572-65 (65 ksi)
L47	31.0000-26.0000	5.0000	0.00	18	38.9023	39.9664	0.7250	2.9000	A572-65 (65 ksi)
L48	26.0000-21.0000	5.0000	0.00	18	39.9664	41.0306	0.7250	2.9000	A572-65 (65 ksi)
L49	21.0000-18.7500	2.2500	0.00	18	41.0306	41.5094	0.7125	2.8500	A572-65 (65 ksi)
L50	18.7500-18.5000	0.2500	0.00	18	41.5094	41.5626	0.7000	2.8000	A572-65 (65 ksi)
L51	18.5000-15.0000	3.5000	0.00	18	41.5626	42.3075	0.6875	2.7500	A572-65 (65 ksi)
L52	15.0000-14.7500	0.2500	0.00	18	42.3075	42.3608	0.5875	2.3500	A572-65 (65 ksi)
L53	14.7500-9.7500	5.0000	0.00	18	42.3608	43.4249	0.5813	2.3250	A572-65 (65 ksi)
L54	9.7500-4.7500	5.0000	0.00	18	43.4249	44.4891	0.5750	2.3000	A572-65 (65 ksi)
L55	4.7500-1.2500	3.5000	0.00	18	44.4891	45.2340	0.5750	2.3000	A572-65 (65 ksi)
L56	1.2500-1.0000	0.2500	0.00	18	45.2340	45.2872	0.7500	3.0000	A572-65 (65 ksi)
L57	1.0000-0.0000	1.0000		18	45.2872	45.5000	0.7500	3.0000	A572-65 (65 ksi)

**Tapered Pole Properties**

Section	Tip Dia. in	Area in <sup>2</sup>	I in <sup>4</sup>	r in	C in	I/C in <sup>3</sup>	J in <sup>4</sup>	I/Q in <sup>2</sup>	w in	w/t
L1	15.2025	8.8153	244.3603	5.2584	7.6200	32.0683	489.0422	4.4085	2.3100	12.32
	16.2989	9.4579	301.7884	5.6418	8.1685	36.9453	603.9739	4.7298	2.5000	13.334
L2	16.2989	9.4579	301.7884	5.6418	8.1685	36.9453	603.9739	4.7298	2.5000	13.334
	17.3953	10.1005	367.5751	6.0251	8.7170	42.1674	735.6339	5.0512	2.6901	14.347
L3	17.3953	10.1005	367.5751	6.0251	8.7170	42.1674	735.6339	5.0512	2.6901	14.347
	18.4917	10.7431	442.2884	6.4084	9.2656	47.7347	885.1588	5.3726	2.8801	15.361
L4	18.4917	10.7431	442.2884	6.4084	9.2656	47.7347	885.1588	5.3726	2.8801	15.361
	19.5881	11.3857	526.4962	6.7917	9.8141	53.6471	1053.6851	5.6939	3.0702	16.374
L5	19.5881	11.3857	526.4962	6.7917	9.8141	53.6471	1053.6851	5.6939	3.0702	16.374
	21.0310	12.2313	652.7391	7.2961	10.5359	61.9537	1306.3371	6.1168	3.3202	17.708
L6	20.6299	15.4180	735.4138	6.8978	9.9977	73.5586	1471.7953	7.7105	3.0238	12.095
	20.8826	16.1503	845.2560	7.2254	10.4665	80.7585	1691.6243	8.0767	3.1862	12.745
L7	20.8575	26.4353	1361.5334	7.1677	10.4665	130.0852	2724.8584	13.2202	2.9002	7.031
	20.9115	26.5049	1372.3160	7.1866	10.4935	130.7780	2746.4378	13.2550	2.9095	7.053
L8	20.9115	26.5049	1372.3160	7.1866	10.4935	130.7780	2746.4378	13.2550	2.9095	7.053
	21.2893	26.9921	1449.3925	7.3187	10.6825	135.6790	2900.6922	13.4986	2.9750	7.212
L9	21.2643	37.3288	1972.9662	7.2610	10.6825	184.6912	3948.5284	18.6679	2.6890	4.677
	21.3182	37.4258	1988.3898	7.2799	10.7095	185.6656	3979.3959	18.7165	2.6984	4.693
L10	21.3202	36.6345	1948.7231	7.2843	10.7095	181.9618	3900.0104	18.3207	2.7204	4.836
	22.3458	38.4378	2250.8932	7.6429	11.2226	200.5675	4504.7483	19.2226	2.8982	5.152
L11	22.3709	27.5399	1637.1536	7.7006	11.2226	145.8798	3276.4614	13.7726	3.1842	7.96
	22.4248	27.6074	1649.2196	7.7195	11.2496	146.6022	3300.6093	13.8063	3.1935	7.984
L12	22.4017	37.6983	2221.0716	7.6662	11.2496	197.4352	4445.0657	18.8527	2.9295	5.326
	22.4557	37.7911	2237.5147	7.6851	11.2766	198.4205	4477.9737	18.8991	2.9389	5.343
L13	22.4576	36.9535	2190.4522	7.6895	11.2766	194.2470	4383.7866	18.4803	2.9609	5.509
	23.5372	38.7674	2529.0957	8.0669	11.8167	214.0266	5061.5192	19.3874	3.1480	5.857
L14	23.5391	37.8866	2474.3583	8.0714	11.8167	209.3944	4951.9724	18.9469	3.1700	6.038
	24.5108	39.4811	2800.0986	8.4111	12.3028	227.5979	5603.8816	19.7443	3.3384	6.359
L15	24.4780	54.9641	3828.5823	8.3356	12.3028	311.1952	7662.2023	27.4873	2.9644	4.02
	24.5320	55.0886	3854.6448	8.3545	12.3298	312.6274	7714.3617	27.5495	2.9738	4.032
L16	24.5339	54.1836	3795.3532	8.3589	12.3298	307.8186	7595.7004	27.0970	2.9958	4.132
	25.1989	55.6907	4120.9422	8.5914	12.6625	325.4435	8247.3069	27.8507	3.1110	4.291
L17	25.1951	57.5516	4249.8461	8.5826	12.6625	335.6235	8505.2842	28.7813	3.0670	4.089
	25.2491	57.6781	4277.9421	8.6014	12.6895	337.1233	8561.5133	28.8446	3.0764	4.102
L18	25.2491	57.6781	4277.9421	8.6014	12.6895	337.1233	8561.5133	28.8446	3.0764	4.102
	25.3398	57.8907	4325.4218	8.6332	12.7349	339.6506	8656.5350	28.9509	3.0921	4.123
L19	25.3398	57.8907	4325.4218	8.6332	12.7349	339.6506	8656.5350	28.9509	3.0921	4.123
	25.3937	58.0173	4353.8495	8.6520	12.7619	341.1594	8713.4280	29.0142	3.1015	4.135
L20	25.3937	58.0173	4353.8495	8.6520	12.7619	341.1594	8713.4280	29.0142	3.1015	4.135
	25.5557	58.3969	4439.8797	8.7086	12.8429	345.7059	8885.6015	29.2040	3.1295	4.173
L21	25.5576	57.4529	4372.5590	8.7131	12.8429	340.4641	8750.8715	28.7319	3.1515	4.273
	25.6116	57.5773	4401.0324	8.7319	12.8699	341.9621	8807.8558	28.7941	3.1609	4.286
L22	25.6154	55.6821	4264.8226	8.7408	12.8699	331.3785	8535.2569	27.8463	3.2049	4.498
	26.6950	58.0865	4841.4984	9.1183	13.4100	361.0351	9689.3674	29.0488	3.3920	4.761
L23	26.6970	57.0952	4763.5077	9.1227	13.4100	355.2193	9533.2834	28.5530	3.4140	4.877
	28.6489	61.3661	5914.4373	9.8051	14.3866	411.1085	11836.6571	30.6889	3.7523	5.36
L24	28.1352	62.3749	5410.4111	9.3019	13.6918	395.1561	10827.9413	31.1934	3.4236	4.565
	28.3342	64.9107	6097.4764	9.6800	14.2330	428.4047	12202.9759	32.4615	3.6111	4.815
L25	28.3361	63.8581	6004.1014	9.6845	14.2330	421.8443	12016.1031	31.9351	3.6331	4.926
	28.9938	65.3742	6441.9734	9.9144	14.5620	442.3825	12892.4233	32.6933	3.7471	5.081
L26	28.9649	81.4443	7918.1173	9.8478	14.5620	543.7521	15846.6535	40.7299	3.4171	3.694
	29.0189	81.6007	7963.8142	9.8667	14.5891	545.8759	15938.1074	40.8081	3.4265	3.704
L27	29.0209	80.5341	7866.7997	9.8712	14.5891	539.2261	15743.9507	40.2747	3.4485	3.779
	29.9403	83.1566	8660.6067	10.1926	15.0490	575.4927	17332.6092	41.5862	3.6078	3.954
L28	29.9596	72.0777	7572.2681	10.2370	15.0490	503.1732	15154.5001	36.0457	3.8278	4.861
	30.0137	72.2109	7614.3047	10.2559	15.0761	505.0584	15238.6285	36.1123	3.8372	4.873
L29	30.0156	71.0954	7503.1737	10.2603	15.0761	497.6871	15016.2202	35.5545	3.8592	4.98
	30.5024	72.2746	7882.7337	10.4305	15.3196	514.5521	15775.8397	36.1442	3.9436	5.088
L30	30.5120	66.5873	7293.3749	10.4527	15.3196	476.0812	14596.3466	33.3000	4.0536	5.689



<b>Job</b>	Oxford / Fritz Property (BU 876362)	<b>Page</b>	5 of 65
<b>Project</b>	TEP No. 25611.715545	<b>Date</b>	13:32:04 06/28/22
<b>Client</b>	Crown Castle	<b>Designed by</b>	djbrevig

Section	Tip Dia. in	Area in <sup>2</sup>	I in <sup>4</sup>	r in	C in	I/C in <sup>3</sup>	J in <sup>4</sup>	I/Q in <sup>2</sup>	w in	w/t
L31	30.5661	66.7078	7333.0261	10.4716	15.3467	477.8255	14675.7013	33.3602	4.0630	5.702
	30.5487	76.9460	8394.0927	10.4317	15.3467	546.9654	16799.2306	38.4803	3.8650	4.685
	30.6028	77.0855	8439.8203	10.4506	15.3737	548.9772	16890.7460	38.5501	3.8743	4.696
L32	30.6047	75.9497	8322.5370	10.4550	15.3737	541.3483	16656.0249	37.9821	3.8963	4.795
	31.1088	77.2299	8750.5117	10.6312	15.6259	560.0007	17512.5375	38.6223	3.9837	4.903
L33	31.1050	79.5398	8997.1879	10.6224	15.6259	575.7871	18006.2145	39.7774	3.9397	4.704
	31.1590	79.6813	9045.3194	10.6413	15.6530	577.8667	18102.5409	39.8482	3.9491	4.715
L34	31.1629	77.3673	8797.2845	10.6501	15.6530	562.0209	17606.1447	38.6910	3.9931	4.915
	31.8487	79.1090	9404.8930	10.8899	15.9960	587.9514	18822.1613	39.5620	4.1119	5.061
L35	31.8294	90.9076	10719.6802	10.8455	15.9960	670.1460	21453.4657	45.4624	3.8919	4.151
	31.8835	91.0661	10775.8444	10.8644	16.0231	672.5195	21565.8679	45.5417	3.9013	4.161
L36	31.8873	88.7101	10514.2133	10.8733	16.0231	656.1912	21042.2614	44.3635	3.9453	4.324
	32.9690	91.7953	11649.8338	11.2515	16.5642	703.3122	23314.9968	45.9064	4.1328	4.529
L37	32.9729	89.3508	11357.4938	11.2603	16.5642	685.6634	22729.9321	44.6839	4.1768	4.706
	34.0546	92.3515	12540.6325	11.6385	17.1054	733.1393	25097.7662	46.1845	4.3643	4.917
L38	34.0584	89.8185	12215.2771	11.6474	17.1054	714.1186	24446.6274	44.9178	4.4083	5.111
	35.1401	92.7347	13444.1315	12.0255	17.6465	761.8567	26905.9532	46.3762	4.5958	5.328
L39	35.1440	90.1132	13083.3709	12.0344	17.6465	741.4130	26183.9573	45.0652	4.6398	5.54
	36.2256	92.9449	14355.9103	12.4126	18.1877	789.3205	28730.7105	46.4813	4.8272	5.764
L40	36.2256	92.9449	14355.9103	12.4126	18.1877	789.3205	28730.7105	46.4813	4.8272	5.764
	37.5431	96.3939	16014.0955	12.8732	18.8468	849.6984	32049.2627	48.2061	5.0556	6.037
L41	36.9247	79.7315	12093.0786	12.3002	17.9698	672.9685	24202.0697	39.8733	4.9497	6.827
	37.1408	82.7533	13520.8138	12.7664	18.6368	725.4885	27059.4187	41.3845	5.1809	7.146
L42	37.1427	81.3547	13301.5572	12.7708	18.6368	713.7238	26620.6170	40.6851	5.2029	7.302
	38.2233	83.7613	14517.2386	13.1486	19.1774	756.9960	29053.5794	41.8886	5.3901	7.565
L43	38.2252	82.3196	14276.9954	13.1531	19.1774	744.4686	28572.7769	41.1676	5.4121	7.732
	39.0162	84.0503	15196.5410	13.4296	19.5731	776.3977	30413.0780	42.0331	5.5492	7.927
L44	39.0085	89.9348	16217.5332	13.4118	19.5731	828.5606	32456.4059	44.9760	5.4612	7.282
	39.0625	90.0615	16286.1502	13.4307	19.6002	830.9188	32593.7301	45.0393	5.4706	7.294
L45	39.0625	90.0615	16286.1502	13.4307	19.6002	830.9188	32593.7301	45.0393	5.4706	7.294
	39.3327	90.6948	16632.1395	13.5252	19.7353	842.7601	33286.1640	45.3560	5.5174	7.357
L46	39.3346	89.2125	16371.0402	13.5296	19.7353	829.5301	32763.6219	44.6147	5.5394	7.511
	39.3886	89.3370	16439.7029	13.5485	19.7623	831.8699	32901.0376	44.6770	5.5488	7.524
L47	39.3905	87.8516	16176.9487	13.5529	19.7623	818.5742	32375.1833	43.9341	5.5708	7.684
	40.4711	90.3004	17567.7528	13.9307	20.3029	865.2814	35158.6217	45.1588	5.7581	7.942
L48	40.4711	90.3004	17567.7528	13.9307	20.3029	865.2814	35158.6217	45.1588	5.7581	7.942
	41.5517	92.7491	19036.0719	14.3085	20.8435	913.2846	38097.1920	46.3834	5.9454	8.201
L49	41.5536	91.1783	18725.2748	14.3129	20.8435	898.3737	37475.1889	45.5978	5.9674	8.375
	42.0399	92.2612	19400.4461	14.4829	21.0868	920.0284	38826.4197	46.1394	6.0517	8.494
L50	42.0418	90.6704	19077.6125	14.4873	21.0868	904.7186	38180.3278	45.3438	6.0737	8.677
	42.0958	90.7886	19152.3304	14.5062	21.1138	907.0992	38329.8619	45.4029	6.0830	8.69
L51	42.0978	89.1947	18827.5921	14.5107	21.1138	891.7189	37679.9581	44.6058	6.1050	8.88
	42.8541	90.8201	19875.8037	14.7751	21.4922	924.7901	39777.7605	45.4187	6.2361	9.071
L52	42.8696	77.7964	17107.4995	14.8106	21.4922	795.9852	34237.5095	38.9056	6.4121	10.914
	42.9236	77.8956	17173.0371	14.8295	21.5193	798.0309	34368.6709	38.9552	6.4215	10.93
L53	42.9246	77.0785	16997.9725	14.8317	21.5193	789.8957	34018.3113	38.5466	6.4325	11.067
	44.0051	79.0417	18330.1850	15.2095	22.0599	830.9297	36684.4893	39.5284	6.6198	11.389
L54	44.0061	78.2032	18141.0231	15.2117	22.0599	822.3547	36305.9167	39.1090	6.6308	11.532
	45.0867	80.1453	19526.4307	15.5895	22.6004	863.9845	39078.5549	40.0803	6.8181	11.858
L55	45.0867	80.1453	19526.4307	15.5895	22.6004	863.9845	39078.5549	40.0803	6.8181	11.858
	45.8431	81.5048	20537.0515	15.8539	22.9789	893.7370	41101.1262	40.7602	6.9492	12.086
L56	45.8161	105.8941	26473.7840	15.7918	22.9789	1152.0934	52982.4028	52.9571	6.6412	8.855
	45.8701	106.0207	26568.8941	15.8107	23.0059	1154.8740	53172.7482	53.0204	6.6505	8.867
L57	45.8701	106.0207	26568.8941	15.8107	23.0059	1154.8740	53172.7482	53.0204	6.6505	8.867
	46.0862	106.5274	26951.6126	15.8863	23.1140	1166.0298	53938.6888	53.2738	6.6880	8.917

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A <sub>f</sub>	Adjust. Factor A <sub>r</sub>	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
ft	ft <sup>2</sup>	in					in	in	in



<p><b>tnxTower</b></p> <p><b>Tower Engineering Professionals, Inc.</b>  326 Tryon Road  Raleigh, NC 27603  Phone: (919) 661 6351  FAX: (919) 661 6350</p>	<b>Job</b> Oxford / Fritz Property (BU 876362)	<b>Page</b> 7 of 65
	<b>Project</b> TEP No. 25611.715545	<b>Date</b> 13:32:04 06/28/22
	<b>Client</b> Crown Castle	<b>Designed by</b> djbrevig

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 in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
ft	ft <sup>2</sup>	in							
2500									
L21				1	1	0.906554			
100.2500-100.0000									
L22				1	1	0.913132			
100.0000-95.0000									
L23				1	1	0.906441			
95.0000-85.9600									
L24				1	1	0.920842			
85.9600-85.0400									
L25				1	1	0.92414			
85.0400-82.0000									
L26				1	1	0.906466			
82.0000-81.7500									
L27				1	1	0.900305			
81.7500-77.5000									
L28				1	1	0.916189			
77.5000-77.2500									
L29				1	1	0.92196			
77.2500-75.0000									
L30				1	1	0.928632			
75.0000-74.7500									
L31				1	1	0.917944			
74.7500-74.5000									
L32				1	1	0.922602			
74.5000-72.1700									
L33				1	1	0.91253			
72.1700-71.9200									
L34				1	1	0.9276			
71.9200-68.7500									
L35				1	1	0.905218			
68.7500-68.5000									
L36				1	1	0.909537			
68.5000-63.5000									
L37				1	1	0.9155			
63.5000-58.5000									
L38				1	1	0.923111			
58.5000-53.5000									
L39				1	1	0.932391			
53.5000-48.5000									
L40				1	1	0.929274			

<b><i>tnxTower</i></b>  <b><i>Tower Engineering Professionals, Inc.</i></b> 326 Tryon Road Raleigh, NC 27603 Phone: (919) 661 6351 FAX: (919) 661 6350	<b>Job</b> Oxford / Fritz Property (BU 876362)	<b>Page</b> 8 of 65
	<b>Project</b> TEP No. 25611.715545	<b>Date</b> 13:32:04 06/28/22
	<b>Client</b> Crown Castle	<b>Designed by</b> djbrevig

<i>Tower Elevation</i>	<i>Gusset Area (per face)</i>	<i>Gusset Thickness</i>	<i>Gusset Grade</i>	<i>Adjust. Factor <math>A_f</math></i>	<i>Adjust. Factor <math>A_r</math></i>	<i>Weight Mult.</i>	<i>Double Angle Stitch Bolt Spacing Diagonals</i>	<i>Double Angle Stitch Bolt Spacing Horizontals</i>	<i>Double Angle Stitch Bolt Spacing Redundants</i>
<i>ft</i>	<i>ft<sup>2</sup></i>	<i>in</i>					<i>in</i>	<i>in</i>	<i>in</i>
48.5000-42.4100									
L41				1	1	0.944631			
42.4100-41.4100									
L42				1	1	0.948384			
41.4100-36.4100									
L43				1	1	0.956154			
36.4100-32.7500									
L44				1	1	0.949946			
32.7500-32.5000									
L45				1	1	0.946804			
32.5000-31.2500									
L46				1	1	0.961903			
31.2500-31.0000									
L47				1	1	0.965667			
31.0000-26.0000									
L48				1	1	0.953828			
26.0000-21.0000									
L49				1	1	0.96505			
21.0000-18.7500									
L50				1	1	0.981401			
18.7500-18.5000									
L51				1	1	0.990823			
18.5000-15.0000									
L52				1	1	1.05172			
15.0000-14.7500									
L53				1	1	1.0525			
14.7500-9.7500									
L54				1	1	1.05381			
9.7500-4.7500									
L55				1	1	1.04711			
4.7500-1.2500									
L56				1	1	1.0171			
1.2500-1.0000									
L57				1	1	1.01464			
1.0000-0.0000									

**Feed Line/Linear Appurtenances - Entered As Round Or Flat**

# tnxTower

## Tower Engineering Professionals, Inc.

326 Tryon Road  
Raleigh, NC 27603  
Phone: (919) 661 6351  
FAX: (919) 661 6350

<b>Job</b>	Oxford / Fritz Property (BU 876362)	<b>Page</b>	9 of 65
<b>Project</b>	TEP No. 25611.715545	<b>Date</b>	13:32:04 06/28/22
<b>Client</b>	Crown Castle	<b>Designed by</b>	djbrevig

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
***										
***										
CU12PSM9P6XXX(1-1/2)	A	No	Surface Ar (CaAa)	107.0000 - 0.0000	1	1	-0.167 -0.167	1.6000		2.35
***										
LDF4-50A(1/2)	A	No	Surface Ar (CaAa)	75.0000 - 0.0000	1	1	0.167 0.167	0.6250		0.15
***Mods***										
Bar #1	C	No	Surface Af (CaAa)	72.1700 - 42.4200	1	1	-0.167 -0.167	4.2500	11.0000	0.00
Bar #1	B	No	Surface Af (CaAa)	72.1700 - 42.4200	1	1	-0.167 -0.167	4.2500	11.0000	0.00
Bar #1	A	No	Surface Af (CaAa)	72.1700 - 42.4200	1	1	-0.167 -0.167	4.2500	11.0000	0.00
***										
Bar #2	C	No	Surface Af (CaAa)	101.9200 - 72.1700	1	1	-0.167 -0.167	3.8750	10.2500	0.00
Bar #2	B	No	Surface Af (CaAa)	101.9200 - 72.1700	1	1	-0.167 -0.167	3.8750	10.2500	0.00
Bar #2	A	No	Surface Af (CaAa)	101.9200 - 72.1700	1	1	-0.167 -0.167	3.8750	10.2500	0.00
***										
Bar #3	C	No	Surface Af (CaAa)	106.5000 - 101.9200	1	1	-0.167 -0.167	3.3750	9.2500	0.00
Bar #3	B	No	Surface Af (CaAa)	106.5000 - 101.9200	1	1	-0.167 -0.167	3.3750	9.2500	0.00
Bar #3	A	No	Surface Af (CaAa)	106.5000 - 101.9200	1	1	-0.167 -0.167	3.3750	9.2500	0.00
***										
MP3-03 (1.1875in)	B	No	Surface Af (CaAa)	76.0000 - 46.0000	1	1	0.167 0.167	4.0600	11.2600	0.00
MP3-03 (1.1875in)	A	No	Surface Af (CaAa)	76.0000 - 46.0000	1	1	0.167 0.167	4.0600	11.2600	0.00
MP3-03 (1.1875in)	C	No	Surface Af (CaAa)	76.0000 - 46.0000	1	1	0.167 0.167	4.0600	11.2600	0.00
***										
MP3-05 (1.1875in)	C	No	Surface Af (CaAa)	21.2500 - 0.0000	1	1	-0.167 -0.167	5.3300	14.8400	0.00
***										
MP3-05 (1.1875in)	B	No	Surface Af (CaAa)	46.2500 - 16.2500	1	1	0.500 0.500	5.3300	14.8400	0.00
***										
MP3-05 (1.1875in)	A	No	Surface Af (CaAa)	31.2500 - 0.0000	1	1	0.500 0.500	5.3300	14.8400	0.00
MP3-05 (1.1875in)	C	No	Surface Af (CaAa)	31.2500 - 0.0000	1	1	0.500 0.500	5.3300	14.8400	0.00
***										
MP3-05 (1.1875in)	A	No	Surface Af (CaAa)	46.2500 - 31.2500	1	1	0.500 0.500	5.3300	14.8400	0.00
MP3-05 (1.1875in)	C	No	Surface Af (CaAa)	46.2500 - 31.2500	1	1	0.500 0.500	5.3300	14.8400	0.00
***										
MP3-03 (1.1875in)	B	No	Surface Af (CaAa)	76.2500 - 46.2500	1	1	0.500 0.500	4.0600	11.2600	0.00
MP3-03 (1.1875in)	A	No	Surface Af (CaAa)	76.2500 - 46.2500	1	1	0.500 0.500	4.0600	11.2600	0.00
MP3-03 (1.1875in)	C	No	Surface Af (CaAa)	76.2500 - 46.2500	1	1	0.500 0.500	4.0600	11.2600	0.00
***										
MP3-03 (1.1875in)	B	No	Surface Af (CaAa)	101.2500 -	1	1	0.500	4.0600	11.2600	0.00



<b>tnxTower</b>  <b>Tower Engineering Professionals, Inc.</b> 326 Tryon Road Raleigh, NC 27603 Phone: (919) 661 6351 FAX: (919) 661 6350	<b>Job</b> Oxford / Fritz Property (BU 876362)	<b>Page</b> 11 of 65
	<b>Project</b> TEP No. 25611.715545	<b>Date</b> 13:32:04 06/28/22
	<b>Client</b> Crown Castle	<b>Designed by</b> djbrevig

### Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C <sub>AA</sub> ft <sup>2</sup> /ft	Weight plf
***									
HB158-21U6S24-xx M_TMO(1-5/8)	C	No	No	Inside Pole	150.0000 - 0.0000	3	No Ice	0.0000	2.50
							1/2" Ice	0.0000	2.50
							1" Ice	0.0000	2.50
***									
LDF6-50A(1-1/4)	C	No	No	Inside Pole	137.0000 - 0.0000	12	No Ice	0.0000	0.60
							1/2" Ice	0.0000	0.60
							1" Ice	0.0000	0.60
***									
FB-L98B-002-75000 (3/8)	C	No	No	Inside Pole	136.0000 - 0.0000	1	No Ice	0.0000	0.06
							1/2" Ice	0.0000	0.06
							1" Ice	0.0000	0.06
WR-VG86ST-BRD(3/4)	C	No	No	Inside Pole	136.0000 - 0.0000	2	No Ice	0.0000	0.58
							1/2" Ice	0.0000	0.58
							1" Ice	0.0000	0.58
2" Flexible Conduit	C	No	No	Inside Pole	136.0000 - 0.0000	1	No Ice	0.0000	0.34
							1/2" Ice	0.0000	0.34
							1" Ice	0.0000	0.34
***									
AVA7-50(1-5/8)	C	No	No	Inside Pole	127.0000 - 0.0000	13	No Ice	0.0000	0.70
							1/2" Ice	0.0000	0.70
							1" Ice	0.0000	0.70
LDF4-50A(1/2)	C	No	No	Inside Pole	127.0000 - 0.0000	1	No Ice	0.0000	0.15
							1/2" Ice	0.0000	0.15
							1" Ice	0.0000	0.15
***									
FXL-1873(1-5/8)	C	No	No	Inside Pole	117.0000 - 0.0000	7	No Ice	0.0000	0.67
							1/2" Ice	0.0000	0.67
							1" Ice	0.0000	0.67
860 10033(3/8)	C	No	No	Inside Pole	117.0000 - 0.0000	1	No Ice	0.0000	0.00
							1/2" Ice	0.0000	0.00
							1" Ice	0.0000	0.00
***									

### Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>AA</sub> In Face ft <sup>2</sup>	C <sub>AA</sub> Out Face ft <sup>2</sup>	Weight K
L1	150.0000-145.0000 0	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.04
L2	145.0000-140.0000 0	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.04
L3	140.0000-135.0000 0	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.05
L4	135.0000-130.0000 0	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.08

**tnxTower****Tower Engineering  
Professionals, Inc.**326 Tryon Road  
Raleigh, NC 27603  
Phone: (919) 661 6351  
FAX: (919) 661 6350**Job**

Oxford / Fritz Property (BU 876362)

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**Project**

TEP No. 25611.715545

**Date**

13:32:04 06/28/22

**Client**

Crown Castle

**Designed by**

djbrevig

Tower Section	Tower Elevation ft	Face	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>AA</sub> In Face ft <sup>2</sup>	C <sub>AA</sub> Out Face ft <sup>2</sup>	Weight K
L5	130.0000-123.4200	A	0.000	0.000	0.220	0.000	0.00
	0	B	0.000	0.000	0.220	0.000	0.00
		C	0.000	0.000	0.220	0.000	0.14
L6	123.4200-122.2500	A	0.000	0.000	0.780	0.000	0.00
	0	B	0.000	0.000	0.780	0.000	0.00
		C	0.000	0.000	0.780	0.000	0.03
L7	122.2500-122.0000	A	0.000	0.000	0.167	0.000	0.00
	0	B	0.000	0.000	0.167	0.000	0.00
		C	0.000	0.000	0.167	0.000	0.01
L8	122.0000-120.2500	A	0.000	0.000	1.833	0.000	0.00
	0	B	0.000	0.000	1.833	0.000	0.00
		C	0.000	0.000	1.833	0.000	0.04
L9	120.2500-120.0000	A	0.000	0.000	0.333	0.000	0.00
	0	B	0.000	0.000	0.333	0.000	0.00
		C	0.000	0.000	0.333	0.000	0.01
L10	120.0000-115.2500	A	0.000	0.000	7.010	0.000	0.00
	0	B	0.000	0.000	7.010	0.000	0.00
		C	0.000	0.000	7.010	0.000	0.13
L11	115.2500-115.0000	A	0.000	0.000	0.502	0.000	0.00
	0	B	0.000	0.000	0.502	0.000	0.00
		C	0.000	0.000	0.502	0.000	0.01
L12	115.0000-114.7500	A	0.000	0.000	0.502	0.000	0.00
	0	B	0.000	0.000	0.502	0.000	0.00
		C	0.000	0.000	0.502	0.000	0.01
L13	114.7500-109.7500	A	0.000	0.000	7.383	0.000	0.00
	0	B	0.000	0.000	7.383	0.000	0.00
		C	0.000	0.000	7.383	0.000	0.15
L14	109.7500-105.2500	A	0.000	0.000	6.914	0.000	0.00
	0	B	0.000	0.000	6.634	0.000	0.00
		C	0.000	0.000	6.634	0.000	0.14
L15	105.2500-105.0000	A	0.000	0.000	0.494	0.000	0.00
	0	B	0.000	0.000	0.454	0.000	0.00
		C	0.000	0.000	0.454	0.000	0.01
L16	105.0000-101.9200	A	0.000	0.000	6.082	0.000	0.01
	0	B	0.000	0.000	5.589	0.000	0.00
		C	0.000	0.000	5.589	0.000	0.09
L17	101.9200-101.6700	A	0.000	0.000	0.537	0.000	0.00
	0	B	0.000	0.000	0.497	0.000	0.00
		C	0.000	0.000	0.497	0.000	0.01
L18	101.6700-101.2500	A	0.000	0.000	0.903	0.000	0.00
	0	B	0.000	0.000	0.835	0.000	0.00
		C	0.000	0.000	0.835	0.000	0.01
L19	101.2500-101.0000	A	0.000	0.000	0.537	0.000	0.00
	0	B	0.000	0.000	0.497	0.000	0.00
		C	0.000	0.000	0.497	0.000	0.01
L20	101.0000-100.2500	A	0.000	0.000	1.612	0.000	0.00
	0	B	0.000	0.000	1.492	0.000	0.00
		C	0.000	0.000	1.492	0.000	0.02
L21	100.2500-100.0000	A	0.000	0.000	0.537	0.000	0.00
	0	B	0.000	0.000	0.497	0.000	0.00
		C	0.000	0.000	0.497	0.000	0.01
L22	100.0000-95.0000	A	0.000	0.000	10.746	0.000	0.01
		B	0.000	0.000	9.946	0.000	0.00
		C	0.000	0.000	9.946	0.000	0.15
L23	95.0000-85.9600	A	0.000	0.000	19.428	0.000	0.02
		B	0.000	0.000	17.982	0.000	0.00
		C	0.000	0.000	17.982	0.000	0.27
L24	85.9600-85.0400	A	0.000	0.000	1.977	0.000	0.00
		B	0.000	0.000	1.830	0.000	0.00
		C	0.000	0.000	1.830	0.000	0.03
L25	85.0400-82.0000	A	0.000	0.000	7.658	0.000	0.01



<b>tnxTower</b>  <b>Tower Engineering Professionals, Inc.</b> 326 Tryon Road Raleigh, NC 27603 Phone: (919) 661 6351 FAX: (919) 661 6350	<b>Job</b> Oxford / Fritz Property (BU 876362)	<b>Page</b> 13 of 65
	<b>Project</b> TEP No. 25611.715545	<b>Date</b> 13:32:04 06/28/22
	<b>Client</b> Crown Castle	<b>Designed by</b> djbrevig

Tower Section	Tower Elevation ft	Face	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>AA</sub> In Face ft <sup>2</sup>	C <sub>AA</sub> Out Face ft <sup>2</sup>	Weight K
		B	0.000	0.000	7.172	0.000	0.00
		C	0.000	0.000	7.172	0.000	0.09
L26	82.0000-81.7500	A	0.000	0.000	0.725	0.000	0.00
		B	0.000	0.000	0.685	0.000	0.00
		C	0.000	0.000	0.685	0.000	0.01
L27	81.7500-77.5000	A	0.000	0.000	12.321	0.000	0.01
		B	0.000	0.000	11.641	0.000	0.00
		C	0.000	0.000	11.641	0.000	0.13
L28	77.5000-77.2500	A	0.000	0.000	0.725	0.000	0.00
		B	0.000	0.000	0.685	0.000	0.00
		C	0.000	0.000	0.685	0.000	0.01
L29	77.2500-75.0000	A	0.000	0.000	7.200	0.000	0.01
		B	0.000	0.000	6.840	0.000	0.00
		C	0.000	0.000	6.840	0.000	0.07
L30	75.0000-74.7500	A	0.000	0.000	0.910	0.000	0.00
		B	0.000	0.000	0.854	0.000	0.00
		C	0.000	0.000	0.854	0.000	0.01
L31	74.7500-74.5000	A	0.000	0.000	0.910	0.000	0.00
		B	0.000	0.000	0.854	0.000	0.00
		C	0.000	0.000	0.854	0.000	0.01
L32	74.5000-72.1700	A	0.000	0.000	7.480	0.000	0.01
		B	0.000	0.000	6.961	0.000	0.00
		C	0.000	0.000	6.961	0.000	0.07
L33	72.1700-71.9200	A	0.000	0.000	0.738	0.000	0.00
		B	0.000	0.000	0.682	0.000	0.00
		C	0.000	0.000	0.682	0.000	0.01
L34	71.9200-68.7500	A	0.000	0.000	10.187	0.000	0.01
		B	0.000	0.000	9.482	0.000	0.00
		C	0.000	0.000	9.482	0.000	0.10
L35	68.7500-68.5000	A	0.000	0.000	0.821	0.000	0.00
		B	0.000	0.000	0.765	0.000	0.00
		C	0.000	0.000	0.765	0.000	0.01
L36	68.5000-63.5000	A	0.000	0.000	16.421	0.000	0.01
		B	0.000	0.000	15.308	0.000	0.00
		C	0.000	0.000	15.308	0.000	0.15
L37	63.5000-58.5000	A	0.000	0.000	16.421	0.000	0.01
		B	0.000	0.000	15.308	0.000	0.00
		C	0.000	0.000	15.308	0.000	0.15
L38	58.5000-53.5000	A	0.000	0.000	16.421	0.000	0.01
		B	0.000	0.000	15.308	0.000	0.00
		C	0.000	0.000	15.308	0.000	0.15
L39	53.5000-48.5000	A	0.000	0.000	16.421	0.000	0.01
		B	0.000	0.000	15.308	0.000	0.00
		C	0.000	0.000	15.308	0.000	0.15
L40	48.5000-42.4100	A	0.000	0.000	18.377	0.000	0.02
		B	0.000	0.000	17.022	0.000	0.00
		C	0.000	0.000	17.022	0.000	0.18
L41	42.4100-41.4100	A	0.000	0.000	2.111	0.000	0.00
		B	0.000	0.000	1.888	0.000	0.00
		C	0.000	0.000	1.888	0.000	0.03
L42	41.4100-36.4100	A	0.000	0.000	10.554	0.000	0.01
		B	0.000	0.000	9.442	0.000	0.00
		C	0.000	0.000	9.442	0.000	0.15
L43	36.4100-32.7500	A	0.000	0.000	8.017	0.000	0.01
		B	0.000	0.000	7.203	0.000	0.00
		C	0.000	0.000	6.620	0.000	0.11
L44	32.7500-32.5000	A	0.000	0.000	0.549	0.000	0.00
		B	0.000	0.000	0.493	0.000	0.00
		C	0.000	0.000	0.451	0.000	0.01
L45	32.5000-31.2500	A	0.000	0.000	2.743	0.000	0.00
		B	0.000	0.000	2.465	0.000	0.00

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	<b>Project</b>	TEP No. 25611.715545	<b>Date</b>	13:32:04 06/28/22
	<b>Client</b>	Crown Castle	<b>Designed by</b>	djbrevig

Tower Section	Tower Elevation ft	Face	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>AA</sub> In Face ft <sup>2</sup>	C <sub>AA</sub> Out Face ft <sup>2</sup>	Weight K
L46	31.2500-31.0000	C	0.000	0.000	2.256	0.000	0.04
		A	0.000	0.000	0.549	0.000	0.00
		B	0.000	0.000	0.493	0.000	0.00
L47	31.0000-26.0000	C	0.000	0.000	0.451	0.000	0.01
		A	0.000	0.000	10.971	0.000	0.01
		B	0.000	0.000	9.858	0.000	0.00
L48	26.0000-21.0000	C	0.000	0.000	9.025	0.000	0.15
		A	0.000	0.000	10.971	0.000	0.01
		B	0.000	0.000	9.858	0.000	0.00
L49	21.0000-18.7500	C	0.000	0.000	9.247	0.000	0.15
		A	0.000	0.000	4.937	0.000	0.01
		B	0.000	0.000	4.436	0.000	0.00
L50	18.7500-18.5000	C	0.000	0.000	6.060	0.000	0.07
		A	0.000	0.000	0.549	0.000	0.00
		B	0.000	0.000	0.493	0.000	0.00
L51	18.5000-15.0000	C	0.000	0.000	0.673	0.000	0.01
		A	0.000	0.000	7.680	0.000	0.01
		B	0.000	0.000	5.790	0.000	0.00
L52	15.0000-14.7500	C	0.000	0.000	9.427	0.000	0.11
		A	0.000	0.000	0.549	0.000	0.00
		B	0.000	0.000	0.271	0.000	0.00
L53	14.7500-9.7500	C	0.000	0.000	0.673	0.000	0.01
		A	0.000	0.000	9.075	0.000	0.01
		B	0.000	0.000	5.417	0.000	0.00
L54	9.7500-4.7500	C	0.000	0.000	13.467	0.000	0.15
		A	0.000	0.000	5.554	0.000	0.01
		B	0.000	0.000	5.417	0.000	0.00
L55	4.7500-1.2500	C	0.000	0.000	13.467	0.000	0.15
		A	0.000	0.000	3.888	0.000	0.01
		B	0.000	0.000	3.792	0.000	0.00
L56	1.2500-1.0000	C	0.000	0.000	9.427	0.000	0.11
		A	0.000	0.000	0.278	0.000	0.00
		B	0.000	0.000	0.271	0.000	0.00
L57	1.0000-0.0000	C	0.000	0.000	0.673	0.000	0.01
		A	0.000	0.000	1.111	0.000	0.00
		B	0.000	0.000	1.083	0.000	0.00
		C	0.000	0.000	2.693	0.000	0.03

**Feed Line/Linear Appurtenances Section Areas - With Ice**

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>AA</sub> In Face ft <sup>2</sup>	C <sub>AA</sub> Out Face ft <sup>2</sup>	Weight K
L1	150.0000-145.0000 0	A	0.987	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.04
L2	145.0000-140.0000 0	A	0.984	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.04
L3	140.0000-135.0000 0	A	0.980	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.05
L4	135.0000-130.0000 0	A	0.977	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.08
L5	130.0000-123.4200 0	A	0.972	0.000	0.000	0.270	0.000	0.00
		B		0.000	0.000	0.270	0.000	0.00
		C		0.000	0.000	0.270	0.000	0.14

# tnxTower

## Tower Engineering Professionals, Inc.

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<b>Job</b>	Oxford / Fritz Property (BU 876362)	<b>Page</b>	15 of 65
<b>Project</b>	TEP No. 25611.715545	<b>Date</b>	13:32:04 06/28/22
<b>Client</b>	Crown Castle	<b>Designed by</b>	djbrevig

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>AA</sub> In Face ft <sup>2</sup>	C <sub>AA</sub> Out Face ft <sup>2</sup>	Weight K
L6	123.4200-122.2500	A	0.969	0.000	0.000	0.957	0.000	0.01
	0	B		0.000	0.000	0.957	0.000	0.01
		C		0.000	0.000	0.957	0.000	0.04
L7	122.2500-122.0000	A	0.969	0.000	0.000	0.204	0.000	0.00
	0	B		0.000	0.000	0.204	0.000	0.00
		C		0.000	0.000	0.204	0.000	0.01
L8	122.0000-120.2500	A	0.968	0.000	0.000	2.290	0.000	0.01
	0	B		0.000	0.000	2.290	0.000	0.01
		C		0.000	0.000	2.290	0.000	0.06
L9	120.2500-120.0000	A	0.967	0.000	0.000	0.419	0.000	0.00
	0	B		0.000	0.000	0.419	0.000	0.00
		C		0.000	0.000	0.419	0.000	0.01
L10	120.0000-115.2500	A	0.965	0.000	0.000	8.833	0.000	0.05
	0	B		0.000	0.000	8.833	0.000	0.05
		C		0.000	0.000	8.833	0.000	0.18
L11	115.2500-115.0000	A	0.963	0.000	0.000	0.636	0.000	0.00
	0	B		0.000	0.000	0.636	0.000	0.00
		C		0.000	0.000	0.636	0.000	0.01
L12	115.0000-114.7500	A	0.963	0.000	0.000	0.636	0.000	0.00
	0	B		0.000	0.000	0.636	0.000	0.00
		C		0.000	0.000	0.636	0.000	0.01
L13	114.7500-109.7500	A	0.961	0.000	0.000	9.454	0.000	0.06
	0	B		0.000	0.000	9.454	0.000	0.06
		C		0.000	0.000	9.454	0.000	0.21
L14	109.7500-105.2500	A	0.957	0.000	0.000	9.101	0.000	0.06
	0	B		0.000	0.000	8.486	0.000	0.05
		C		0.000	0.000	8.486	0.000	0.19
L15	105.2500-105.0000	A	0.954	0.000	0.000	0.663	0.000	0.01
	0	B		0.000	0.000	0.575	0.000	0.00
		C		0.000	0.000	0.575	0.000	0.01
L16	105.0000-101.9200	A	0.953	0.000	0.000	8.163	0.000	0.06
	0	B		0.000	0.000	7.083	0.000	0.05
		C		0.000	0.000	7.083	0.000	0.14
L17	101.9200-101.6700	A	0.951	0.000	0.000	0.728	0.000	0.01
	0	B		0.000	0.000	0.640	0.000	0.00
		C		0.000	0.000	0.640	0.000	0.01
L18	101.6700-101.2500	A	0.951	0.000	0.000	1.222	0.000	0.01
	0	B		0.000	0.000	1.075	0.000	0.01
		C		0.000	0.000	1.075	0.000	0.02
L19	101.2500-101.0000	A	0.951	0.000	0.000	0.727	0.000	0.01
	0	B		0.000	0.000	0.640	0.000	0.00
		C		0.000	0.000	0.640	0.000	0.01
L20	101.0000-100.2500	A	0.950	0.000	0.000	2.182	0.000	0.02
	0	B		0.000	0.000	1.919	0.000	0.01
		C		0.000	0.000	1.919	0.000	0.03
L21	100.2500-100.0000	A	0.950	0.000	0.000	0.727	0.000	0.01
	0	B		0.000	0.000	0.640	0.000	0.00
		C		0.000	0.000	0.640	0.000	0.01
L22	100.0000-95.0000	A	0.947	0.000	0.000	14.535	0.000	0.10
		B		0.000	0.000	12.788	0.000	0.08
		C		0.000	0.000	12.788	0.000	0.23
L23	95.0000-85.9600	A	0.940	0.000	0.000	26.228	0.000	0.19
		B		0.000	0.000	23.081	0.000	0.14
		C		0.000	0.000	23.081	0.000	0.41
L24	85.9600-85.0400	A	0.935	0.000	0.000	2.669	0.000	0.02
		B		0.000	0.000	2.349	0.000	0.01
		C		0.000	0.000	2.349	0.000	0.04
L25	85.0400-82.0000	A	0.933	0.000	0.000	10.094	0.000	0.07
		B		0.000	0.000	9.041	0.000	0.05
		C		0.000	0.000	9.041	0.000	0.15
L26	82.0000-81.7500	A	0.931	0.000	0.000	0.939	0.000	0.01

<p><b>tnxTower</b></p> <p><b>Tower Engineering Professionals, Inc.</b>  326 Tryon Road  Raleigh, NC 27603  Phone: (919) 661 6351  FAX: (919) 661 6350</p>	<b>Job</b>	Oxford / Fritz Property (BU 876362)	<b>Page</b>	16 of 65
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	<b>Client</b>	Crown Castle	<b>Designed by</b>	djbrevig

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>AA</sub> In Face ft <sup>2</sup>	C <sub>AA</sub> Out Face ft <sup>2</sup>	Weight K
		B		0.000	0.000	0.852	0.000	0.01
		C		0.000	0.000	0.852	0.000	0.01
L27	81.7500-77.5000	A	0.928	0.000	0.000	15.950	0.000	0.11
		B		0.000	0.000	14.481	0.000	0.09
		C		0.000	0.000	14.481	0.000	0.21
L28	77.5000-77.2500	A	0.926	0.000	0.000	0.938	0.000	0.01
		B		0.000	0.000	0.851	0.000	0.01
		C		0.000	0.000	0.851	0.000	0.01
L29	77.2500-75.0000	A	0.924	0.000	0.000	9.297	0.000	0.06
		B		0.000	0.000	8.521	0.000	0.05
		C		0.000	0.000	8.521	0.000	0.12
L30	75.0000-74.7500	A	0.923	0.000	0.000	1.214	0.000	0.01
		B		0.000	0.000	1.066	0.000	0.01
		C		0.000	0.000	1.066	0.000	0.01
L31	74.7500-74.5000	A	0.922	0.000	0.000	1.214	0.000	0.01
		B		0.000	0.000	1.066	0.000	0.01
		C		0.000	0.000	1.066	0.000	0.01
L32	74.5000-72.1700	A	0.921	0.000	0.000	10.164	0.000	0.07
		B		0.000	0.000	8.788	0.000	0.05
		C		0.000	0.000	8.788	0.000	0.12
L33	72.1700-71.9200	A	0.919	0.000	0.000	1.013	0.000	0.01
		B		0.000	0.000	0.866	0.000	0.01
		C		0.000	0.000	0.866	0.000	0.01
L34	71.9200-68.7500	A	0.917	0.000	0.000	13.675	0.000	0.09
		B		0.000	0.000	11.807	0.000	0.07
		C		0.000	0.000	11.807	0.000	0.16
L35	68.7500-68.5000	A	0.915	0.000	0.000	1.095	0.000	0.01
		B		0.000	0.000	0.948	0.000	0.01
		C		0.000	0.000	0.948	0.000	0.01
L36	68.5000-63.5000	A	0.911	0.000	0.000	21.887	0.000	0.14
		B		0.000	0.000	18.952	0.000	0.11
		C		0.000	0.000	18.952	0.000	0.26
L37	63.5000-58.5000	A	0.904	0.000	0.000	21.844	0.000	0.14
		B		0.000	0.000	18.924	0.000	0.11
		C		0.000	0.000	18.924	0.000	0.26
L38	58.5000-53.5000	A	0.896	0.000	0.000	21.798	0.000	0.14
		B		0.000	0.000	18.893	0.000	0.11
		C		0.000	0.000	18.893	0.000	0.26
L39	53.5000-48.5000	A	0.888	0.000	0.000	21.748	0.000	0.14
		B		0.000	0.000	18.860	0.000	0.11
		C		0.000	0.000	18.860	0.000	0.26
L40	48.5000-42.4100	A	0.878	0.000	0.000	24.150	0.000	0.15
		B		0.000	0.000	20.666	0.000	0.11
		C		0.000	0.000	20.657	0.000	0.30
L41	42.4100-41.4100	A	0.871	0.000	0.000	2.811	0.000	0.02
		B		0.000	0.000	2.239	0.000	0.01
		C		0.000	0.000	2.237	0.000	0.04
L42	41.4100-36.4100	A	0.864	0.000	0.000	14.001	0.000	0.09
		B		0.000	0.000	11.170	0.000	0.06
		C		0.000	0.000	11.160	0.000	0.21
L43	36.4100-32.7500	A	0.854	0.000	0.000	10.511	0.000	0.07
		B		0.000	0.000	8.453	0.000	0.04
		C		0.000	0.000	7.863	0.000	0.15
L44	32.7500-32.5000	A	0.849	0.000	0.000	0.718	0.000	0.00
		B		0.000	0.000	0.578	0.000	0.00
		C		0.000	0.000	0.536	0.000	0.01
L45	32.5000-31.2500	A	0.847	0.000	0.000	3.588	0.000	0.02
		B		0.000	0.000	2.888	0.000	0.02
		C		0.000	0.000	2.678	0.000	0.05
L46	31.2500-31.0000	A	0.845	0.000	0.000	0.718	0.000	0.00
		B		0.000	0.000	0.577	0.000	0.00

<b>tnxTower</b>  <b>Tower Engineering Professionals, Inc.</b> 326 Tryon Road Raleigh, NC 27603 Phone: (919) 661 6351 FAX: (919) 661 6350	<b>Job</b>	Oxford / Fritz Property (BU 876362)	<b>Page</b>	17 of 65
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	<b>Client</b>	Crown Castle	<b>Designed by</b>	djbrevig

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>AA</sub> In Face ft <sup>2</sup>	C <sub>AA</sub> Out Face ft <sup>2</sup>	Weight K
L47	31.0000-26.0000	C		0.000	0.000	0.536	0.000	0.01
		A	0.838	0.000	0.000	14.321	0.000	0.09
		B		0.000	0.000	11.534	0.000	0.06
		C		0.000	0.000	10.700	0.000	0.21
L48	26.0000-21.0000	A	0.822	0.000	0.000	14.257	0.000	0.09
		B		0.000	0.000	11.502	0.000	0.06
		C		0.000	0.000	10.931	0.000	0.21
L49	21.0000-18.7500	A	0.808	0.000	0.000	6.391	0.000	0.04
		B		0.000	0.000	5.163	0.000	0.03
		C		0.000	0.000	7.151	0.000	0.10
L50	18.7500-18.5000	A	0.803	0.000	0.000	0.709	0.000	0.00
		B		0.000	0.000	0.573	0.000	0.00
		C		0.000	0.000	0.794	0.000	0.01
L51	18.5000-15.0000	A	0.794	0.000	0.000	9.903	0.000	0.06
		B		0.000	0.000	6.704	0.000	0.03
		C		0.000	0.000	11.095	0.000	0.16
L52	15.0000-14.7500	A	0.785	0.000	0.000	0.706	0.000	0.00
		B		0.000	0.000	0.310	0.000	0.00
		C		0.000	0.000	0.791	0.000	0.01
L53	14.7500-9.7500	A	0.770	0.000	0.000	11.885	0.000	0.07
		B		0.000	0.000	6.186	0.000	0.03
		C		0.000	0.000	15.776	0.000	0.23
L54	9.7500-4.7500	A	0.730	0.000	0.000	7.745	0.000	0.05
		B		0.000	0.000	6.147	0.000	0.03
		C		0.000	0.000	15.658	0.000	0.22
L55	4.7500-1.2500	A	0.669	0.000	0.000	5.292	0.000	0.03
		B		0.000	0.000	4.260	0.000	0.02
		C		0.000	0.000	10.831	0.000	0.15
L56	1.2500-1.0000	A	0.606	0.000	0.000	0.369	0.000	0.00
		B		0.000	0.000	0.301	0.000	0.00
		C		0.000	0.000	0.764	0.000	0.01
L57	1.0000-0.0000	A	0.559	0.000	0.000	1.446	0.000	0.01
		B		0.000	0.000	1.195	0.000	0.00
		C		0.000	0.000	3.029	0.000	0.04

### Feed Line Center of Pressure

Section	Elevation ft	CP <sub>x</sub> in	CP <sub>z</sub> in	CP <sub>x</sub> Ice in	CP <sub>z</sub> Ice in
L1	150.0000-145.0000	0.0000	0.0000	0.0000	0.0000
L2	145.0000-140.0000	0.0000	0.0000	0.0000	0.0000
L3	140.0000-135.0000	0.0000	0.0000	0.0000	0.0000
L4	135.0000-130.0000	0.0000	0.0000	0.0000	0.0000
L5	130.0000-123.4200	0.0000	0.0000	0.0000	0.0000
L6	123.4200-122.2500	0.0000	0.0000	0.0000	0.0000
L7	122.2500-122.0000	0.0000	0.0000	0.0000	0.0000
L8	122.0000-120.2500	0.0000	0.0000	0.0000	0.0000
L9	120.2500-120.0000	0.0000	0.0000	0.0000	0.0000
L10	120.0000-115.2500	0.0000	0.0000	0.0000	0.0000
L11	115.2500-115.0000	0.0000	0.0000	0.0000	0.0000
L12	115.0000-114.7500	0.0000	0.0000	0.0000	0.0000
L13	114.7500-109.7500	0.0000	0.0000	0.0000	0.0000
L14	109.7500-105.2500	-0.1321	-0.0232	-0.2056	-0.0361
L15	105.2500-105.0000	-0.2870	-0.0504	-0.4514	-0.0793
L16	105.0000-101.9200	-0.2901	-0.0509	-0.4556	-0.0800
L17	101.9200-101.6700	-0.2731	-0.0480	-0.4264	-0.0749

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Section	Elevation ft	CP <sub>x</sub>	CP <sub>z</sub>	CP <sub>x</sub>	CP <sub>z</sub>
		in	in	Ice in	Ice in
L18	101.6700-101.2500	-0.2736	-0.0481	-0.4272	-0.0750
L19	101.2500-101.0000	-0.2742	-0.0482	-0.4280	-0.0752
L20	101.0000-100.2500	-0.2751	-0.0483	-0.4292	-0.0754
L21	100.2500-100.0000	-0.2759	-0.0485	-0.4304	-0.0756
L22	100.0000-95.0000	-0.2804	-0.0492	-0.4366	-0.0767
L23	95.0000-85.9600	-0.2921	-0.0513	-0.4527	-0.0795
L24	85.9600-85.0400	-0.2965	-0.0521	-0.4592	-0.0806
L25	85.0400-82.0000	-0.2627	-0.0461	-0.4147	-0.0728
L26	82.0000-81.7500	-0.2345	-0.0412	-0.3781	-0.0664
L27	81.7500-77.5000	-0.2378	-0.0418	-0.3823	-0.0671
L28	77.5000-77.2500	-0.2409	-0.0423	-0.3864	-0.0679
L29	77.2500-75.0000	-0.2210	-0.0388	-0.3588	-0.0630
L30	75.0000-74.7500	-0.2484	-0.0937	-0.4714	-0.2324
L31	74.7500-74.5000	-0.2488	-0.0938	-0.4720	-0.2327
L32	74.5000-72.1700	-0.2812	-0.1061	-0.5211	-0.2569
L33	72.1700-71.9200	-0.3064	-0.1156	-0.5581	-0.2751
L34	71.9200-68.7500	-0.2875	-0.1085	-0.5330	-0.2627
L35	68.7500-68.5000	-0.2850	-0.1075	-0.5298	-0.2611
L36	68.5000-63.5000	-0.2892	-0.1092	-0.5359	-0.2641
L37	63.5000-58.5000	-0.2972	-0.1122	-0.5473	-0.2697
L38	58.5000-53.5000	-0.3052	-0.1153	-0.5583	-0.2749
L39	53.5000-48.5000	-0.3130	-0.1183	-0.5688	-0.2800
L40	48.5000-42.4100	-0.3449	-0.1304	-0.6234	-0.3044
L41	42.4100-41.4100	-0.4613	-0.1744	-0.8183	-0.3983
L42	41.4100-36.4100	-0.4668	-0.1765	-0.8215	-0.3996
L43	36.4100-32.7500	-0.4701	-0.5554	-0.8241	-0.6773
L44	32.7500-32.5000	-0.4734	-0.5765	-0.8274	-0.6936
L45	32.5000-31.2500	-0.4747	-0.5782	-0.8287	-0.6951
L46	31.2500-31.0000	-0.4760	-0.5798	-0.8308	-0.7000
L47	31.0000-26.0000	-0.4806	-0.5854	-0.8349	-0.7047
L48	26.0000-21.0000	-0.4147	-0.4996	-0.7749	-0.6285
L49	21.0000-18.7500	0.8650	1.1546	0.3788	0.8353
L50	18.7500-18.5000	0.8689	1.1595	0.3824	0.8393
L51	18.5000-15.0000	0.6054	0.1877	0.1382	-0.0191
L52	15.0000-14.7500	0.0759	-1.7521	-0.3454	-1.7082
L53	14.7500-9.7500	0.9680	-1.3379	0.3869	-1.3572
L54	9.7500-4.7500	2.8834	-0.4445	1.9266	-0.6153
L55	4.7500-1.2500	2.9214	-0.4520	1.9815	-0.6043
L56	1.2500-1.0000	2.9386	-0.4553	2.0250	-0.5878
L57	1.0000-0.0000	2.9441	-0.4564	2.0538	-0.5734

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

### Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L5	82	(Area) CCI-65FP-040075 (H)	123.42 - 123.75	1.0000	1.0000
L5	83	(Area) CCI-65FP-040075 (H)	123.42 - 123.75	1.0000	1.0000
L5	84	(Area) CCI-65FP-040075 (H)	123.42 - 123.75	1.0000	1.0000
L6	82	(Area) CCI-65FP-040075 (H)	122.25 -	1.0000	1.0000

**tnxTower****Tower Engineering  
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Raleigh, NC 27603  
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**Client**

Crown Castle

**Designed by**

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	$K_a$ No Ice	$K_a$ Ice
			123.42		
L6	83	(Area) CCI-65FP-040075 (H)	122.25 - 123.42	1.0000	1.0000
L6	84	(Area) CCI-65FP-040075 (H)	122.25 - 123.42	1.0000	1.0000
L7	82	(Area) CCI-65FP-040075 (H)	122.00 - 122.25	1.0000	1.0000
L7	83	(Area) CCI-65FP-040075 (H)	122.00 - 122.25	1.0000	1.0000
L7	84	(Area) CCI-65FP-040075 (H)	122.00 - 122.25	1.0000	1.0000
L8	74	(Area) CCI-65FP-040075 (H)	120.25 - 121.25	1.0000	1.0000
L8	75	(Area) CCI-65FP-040075 (H)	120.25 - 121.25	1.0000	1.0000
L8	76	(Area) CCI-65FP-040075 (H)	120.25 - 121.25	1.0000	1.0000
L8	82	(Area) CCI-65FP-040075 (H)	120.25 - 122.00	1.0000	1.0000
L8	83	(Area) CCI-65FP-040075 (H)	120.25 - 122.00	1.0000	1.0000
L8	84	(Area) CCI-65FP-040075 (H)	120.25 - 122.00	1.0000	1.0000
L9	74	(Area) CCI-65FP-040075 (H)	120.00 - 120.25	1.0000	1.0000
L9	75	(Area) CCI-65FP-040075 (H)	120.00 - 120.25	1.0000	1.0000
L9	76	(Area) CCI-65FP-040075 (H)	120.00 - 120.25	1.0000	1.0000
L9	82	(Area) CCI-65FP-040075 (H)	120.00 - 120.25	1.0000	1.0000
L9	83	(Area) CCI-65FP-040075 (H)	120.00 - 120.25	1.0000	1.0000
L9	84	(Area) CCI-65FP-040075 (H)	120.00 - 120.25	1.0000	1.0000
L10	56	MP3-03 (1.1875in)	115.25 - 116.25	1.0000	1.0000
L10	57	MP3-03 (1.1875in)	115.25 - 116.25	1.0000	1.0000
L10	58	MP3-03 (1.1875in)	115.25 - 116.25	1.0000	1.0000
L10	74	(Area) CCI-65FP-040075 (H)	115.25 - 120.00	1.0000	1.0000
L10	75	(Area) CCI-65FP-040075 (H)	115.25 - 120.00	1.0000	1.0000
L10	76	(Area) CCI-65FP-040075 (H)	115.25 - 120.00	1.0000	1.0000
L10	82	(Area) CCI-65FP-040075 (H)	115.25 - 120.00	1.0000	1.0000
L10	83	(Area) CCI-65FP-040075 (H)	115.25 - 120.00	1.0000	1.0000
L10	84	(Area) CCI-65FP-040075 (H)	115.25 - 120.00	1.0000	1.0000
L11	56	MP3-03 (1.1875in)	115.00 - 115.25	1.0000	1.0000
L11	57	MP3-03 (1.1875in)	115.00 - 115.25	1.0000	1.0000
L11	58	MP3-03 (1.1875in)	115.00 - 115.25	1.0000	1.0000
L11	74	(Area) CCI-65FP-040075 (H)	115.00 - 115.25	1.0000	1.0000
L11	75	(Area) CCI-65FP-040075 (H)	115.00 -	1.0000	1.0000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L11	76	(Area) CCI-65FP-040075 (H)	115.25 115.00 - 115.25	1.0000	1.0000
L11	82	(Area) CCI-65FP-040075 (H)	115.00 - 115.25	1.0000	1.0000
L11	83	(Area) CCI-65FP-040075 (H)	115.00 - 115.25	1.0000	1.0000
L11	84	(Area) CCI-65FP-040075 (H)	115.00 - 115.25	1.0000	1.0000
L12	56	MP3-03 (1.1875in)	114.75 - 115.00	1.0000	1.0000
L12	57	MP3-03 (1.1875in)	114.75 - 115.00	1.0000	1.0000
L12	58	MP3-03 (1.1875in)	114.75 - 115.00	1.0000	1.0000
L12	74	(Area) CCI-65FP-040075 (H)	114.75 - 115.00	1.0000	1.0000
L12	75	(Area) CCI-65FP-040075 (H)	114.75 - 115.00	1.0000	1.0000
L12	76	(Area) CCI-65FP-040075 (H)	114.75 - 115.00	1.0000	1.0000
L12	82	(Area) CCI-65FP-040075 (H)	114.75 - 115.00	1.0000	1.0000
L12	83	(Area) CCI-65FP-040075 (H)	114.75 - 115.00	1.0000	1.0000
L12	84	(Area) CCI-65FP-040075 (H)	114.75 - 115.00	1.0000	1.0000
L13	56	MP3-03 (1.1875in)	109.75 - 114.75	1.0000	1.0000
L13	57	MP3-03 (1.1875in)	109.75 - 114.75	1.0000	1.0000
L13	58	MP3-03 (1.1875in)	109.75 - 114.75	1.0000	1.0000
L13	74	(Area) CCI-65FP-040075 (H)	109.75 - 114.75	1.0000	1.0000
L13	75	(Area) CCI-65FP-040075 (H)	109.75 - 114.75	1.0000	1.0000
L13	76	(Area) CCI-65FP-040075 (H)	109.75 - 114.75	1.0000	1.0000
L13	82	(Area) CCI-65FP-040075 (H)	113.75 - 114.75	1.0000	1.0000
L13	83	(Area) CCI-65FP-040075 (H)	113.75 - 114.75	1.0000	1.0000
L13	84	(Area) CCI-65FP-040075 (H)	113.75 - 114.75	1.0000	1.0000
L14	18	CU12PSM9P6XXX(1-1/2)	105.25 - 107.00	1.0000	1.0000
L14	30	Bar #3	105.25 - 106.50	1.0000	1.0000
L14	31	Bar #3	105.25 - 106.50	1.0000	1.0000
L14	32	Bar #3	105.25 - 106.50	1.0000	1.0000
L14	56	MP3-03 (1.1875in)	105.25 - 109.75	1.0000	1.0000
L14	57	MP3-03 (1.1875in)	105.25 - 109.75	1.0000	1.0000
L14	58	MP3-03 (1.1875in)	105.25 - 109.75	1.0000	1.0000
L14	74	(Area) CCI-65FP-040075 (H)	105.25 - 109.75	1.0000	1.0000
L14	75	(Area) CCI-65FP-040075 (H)	105.25 -	1.0000	1.0000



<p><b>tnxTower</b></p> <p><b>Tower Engineering Professionals, Inc.</b>  326 Tryon Road  Raleigh, NC 27603  Phone: (919) 661 6351  FAX: (919) 661 6350</p>	<b>Job</b> Oxford / Fritz Property (BU 876362)	<b>Page</b> 21 of 65
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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L14	76	(Area) CCI-65FP-040075 (H)	109.75 105.25 - 109.75	1.0000	1.0000
L15	18	CU12PSM9P6XXX(1-1/2)	105.00 - 105.25	1.0000	1.0000
L15	30	Bar #3	105.00 - 105.25	1.0000	1.0000
L15	31	Bar #3	105.00 - 105.25	1.0000	1.0000
L15	32	Bar #3	105.00 - 105.25	1.0000	1.0000
L15	56	MP3-03 (1.1875in)	105.00 - 105.25	1.0000	1.0000
L15	57	MP3-03 (1.1875in)	105.00 - 105.25	1.0000	1.0000
L15	58	MP3-03 (1.1875in)	105.00 - 105.25	1.0000	1.0000
L15	74	(Area) CCI-65FP-040075 (H)	105.00 - 105.25	1.0000	1.0000
L15	75	(Area) CCI-65FP-040075 (H)	105.00 - 105.25	1.0000	1.0000
L15	76	(Area) CCI-65FP-040075 (H)	105.00 - 105.25	1.0000	1.0000
L16	18	CU12PSM9P6XXX(1-1/2)	101.92 - 105.00	1.0000	1.0000
L16	30	Bar #3	101.92 - 105.00	1.0000	1.0000
L16	31	Bar #3	101.92 - 105.00	1.0000	1.0000
L16	32	Bar #3	101.92 - 105.00	1.0000	1.0000
L16	56	MP3-03 (1.1875in)	101.92 - 105.00	1.0000	1.0000
L16	57	MP3-03 (1.1875in)	101.92 - 105.00	1.0000	1.0000
L16	58	MP3-03 (1.1875in)	101.92 - 105.00	1.0000	1.0000
L16	74	(Area) CCI-65FP-040075 (H)	101.92 - 105.00	1.0000	1.0000
L16	75	(Area) CCI-65FP-040075 (H)	101.92 - 105.00	1.0000	1.0000
L16	76	(Area) CCI-65FP-040075 (H)	101.92 - 105.00	1.0000	1.0000
L17	18	CU12PSM9P6XXX(1-1/2)	101.67 - 101.92	1.0000	1.0000
L17	26	Bar #2	101.67 - 101.92	1.0000	1.0000
L17	27	Bar #2	101.67 - 101.92	1.0000	1.0000
L17	28	Bar #2	101.67 - 101.92	1.0000	1.0000
L17	56	MP3-03 (1.1875in)	101.67 - 101.92	1.0000	1.0000
L17	57	MP3-03 (1.1875in)	101.67 - 101.92	1.0000	1.0000
L17	58	MP3-03 (1.1875in)	101.67 - 101.92	1.0000	1.0000
L17	74	(Area) CCI-65FP-040075 (H)	101.67 - 101.92	1.0000	1.0000
L17	75	(Area) CCI-65FP-040075 (H)	101.67 - 101.92	1.0000	1.0000
L17	76	(Area) CCI-65FP-040075 (H)	101.67 -	1.0000	1.0000

<b>tnxTower</b>  <b>Tower Engineering Professionals, Inc.</b> 326 Tryon Road Raleigh, NC 27603 Phone: (919) 661 6351 FAX: (919) 661 6350	<b>Job</b> Oxford / Fritz Property (BU 876362)	<b>Page</b> 22 of 65
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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L18	18	CU12PSM9P6XXX(1-1/2)	101.92 101.25 - 101.67	1.0000	1.0000
L18	26	Bar #2	101.25 - 101.67	1.0000	1.0000
L18	27	Bar #2	101.25 - 101.67	1.0000	1.0000
L18	28	Bar #2	101.25 - 101.67	1.0000	1.0000
L18	56	MP3-03 (1.1875in)	101.25 - 101.67	1.0000	1.0000
L18	57	MP3-03 (1.1875in)	101.25 - 101.67	1.0000	1.0000
L18	58	MP3-03 (1.1875in)	101.25 - 101.67	1.0000	1.0000
L18	74	(Area) CCI-65FP-040075 (H)	101.25 - 101.67	1.0000	1.0000
L18	75	(Area) CCI-65FP-040075 (H)	101.25 - 101.67	1.0000	1.0000
L18	76	(Area) CCI-65FP-040075 (H)	101.25 - 101.67	1.0000	1.0000
L19	18	CU12PSM9P6XXX(1-1/2)	101.00 - 101.25	1.0000	1.0000
L19	26	Bar #2	101.00 - 101.25	1.0000	1.0000
L19	27	Bar #2	101.00 - 101.25	1.0000	1.0000
L19	28	Bar #2	101.00 - 101.25	1.0000	1.0000
L19	52	MP3-03 (1.1875in)	101.00 - 101.25	1.0000	1.0000
L19	53	MP3-03 (1.1875in)	101.00 - 101.25	1.0000	1.0000
L19	54	MP3-03 (1.1875in)	101.00 - 101.25	1.0000	1.0000
L19	70	(Area) CCI-65FP-040075 (H)	101.00 - 101.25	1.0000	1.0000
L19	71	(Area) CCI-65FP-040075 (H)	101.00 - 101.25	1.0000	1.0000
L19	72	(Area) CCI-65FP-040075 (H)	101.00 - 101.25	1.0000	1.0000
L20	18	CU12PSM9P6XXX(1-1/2)	100.25 - 101.00	1.0000	1.0000
L20	26	Bar #2	100.25 - 101.00	1.0000	1.0000
L20	27	Bar #2	100.25 - 101.00	1.0000	1.0000
L20	28	Bar #2	100.25 - 101.00	1.0000	1.0000
L20	52	MP3-03 (1.1875in)	100.25 - 101.00	1.0000	1.0000
L20	53	MP3-03 (1.1875in)	100.25 - 101.00	1.0000	1.0000
L20	54	MP3-03 (1.1875in)	100.25 - 101.00	1.0000	1.0000
L20	70	(Area) CCI-65FP-040075 (H)	100.25 - 101.00	1.0000	1.0000
L20	71	(Area) CCI-65FP-040075 (H)	100.25 - 101.00	1.0000	1.0000
L20	72	(Area) CCI-65FP-040075 (H)	100.25 - 101.00	1.0000	1.0000
L21	18	CU12PSM9P6XXX(1-1/2)	100.00 -	1.0000	1.0000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L21	26	Bar #2	100.00 - 100.25	1.0000	1.0000
L21	27	Bar #2	100.00 - 100.25	1.0000	1.0000
L21	28	Bar #2	100.00 - 100.25	1.0000	1.0000
L21	52	MP3-03 (1.1875in)	100.00 - 100.25	1.0000	1.0000
L21	53	MP3-03 (1.1875in)	100.00 - 100.25	1.0000	1.0000
L21	54	MP3-03 (1.1875in)	100.00 - 100.25	1.0000	1.0000
L21	70	(Area) CCI-65FP-040075 (H)	100.00 - 100.25	1.0000	1.0000
L21	71	(Area) CCI-65FP-040075 (H)	100.00 - 100.25	1.0000	1.0000
L21	72	(Area) CCI-65FP-040075 (H)	100.00 - 100.25	1.0000	1.0000
L22	18	CU12PSM9P6XXX(1-1/2)	95.00 - 100.00	1.0000	1.0000
L22	26	Bar #2	95.00 - 100.00	1.0000	1.0000
L22	27	Bar #2	95.00 - 100.00	1.0000	1.0000
L22	28	Bar #2	95.00 - 100.00	1.0000	1.0000
L22	52	MP3-03 (1.1875in)	95.00 - 100.00	1.0000	1.0000
L22	53	MP3-03 (1.1875in)	95.00 - 100.00	1.0000	1.0000
L22	54	MP3-03 (1.1875in)	95.00 - 100.00	1.0000	1.0000
L22	70	(Area) CCI-65FP-040075 (H)	95.00 - 100.00	1.0000	1.0000
L22	71	(Area) CCI-65FP-040075 (H)	95.00 - 100.00	1.0000	1.0000
L22	72	(Area) CCI-65FP-040075 (H)	95.00 - 100.00	1.0000	1.0000
L23	18	CU12PSM9P6XXX(1-1/2)	85.96 - 95.00	1.0000	1.0000
L23	26	Bar #2	85.96 - 95.00	1.0000	1.0000
L23	27	Bar #2	85.96 - 95.00	1.0000	1.0000
L23	28	Bar #2	85.96 - 95.00	1.0000	1.0000
L23	52	MP3-03 (1.1875in)	85.96 - 95.00	1.0000	1.0000
L23	53	MP3-03 (1.1875in)	85.96 - 95.00	1.0000	1.0000
L23	54	MP3-03 (1.1875in)	85.96 - 95.00	1.0000	1.0000
L23	70	(Area) CCI-65FP-040075 (H)	85.96 - 95.00	1.0000	1.0000
L23	71	(Area) CCI-65FP-040075 (H)	85.96 - 95.00	1.0000	1.0000
L23	72	(Area) CCI-65FP-040075 (H)	85.96 - 95.00	1.0000	1.0000
L24	18	CU12PSM9P6XXX(1-1/2)	85.04 - 85.96	1.0000	1.0000
L24	26	Bar #2	85.04 - 85.96	1.0000	1.0000
L24	27	Bar #2	85.04 - 85.96	1.0000	1.0000
L24	28	Bar #2	85.04 - 85.96	1.0000	1.0000
L24	52	MP3-03 (1.1875in)	85.04 - 85.96	1.0000	1.0000
L24	53	MP3-03 (1.1875in)	85.04 - 85.96	1.0000	1.0000
L24	54	MP3-03 (1.1875in)	85.04 - 85.96	1.0000	1.0000
L24	70	(Area) CCI-65FP-040075 (H)	85.04 - 85.96	1.0000	1.0000
L24	71	(Area) CCI-65FP-040075 (H)	85.04 - 85.96	1.0000	1.0000
L24	72	(Area) CCI-65FP-040075 (H)	85.04 - 85.96	1.0000	1.0000
L25	18	CU12PSM9P6XXX(1-1/2)	82.00 - 85.04	1.0000	1.0000
L25	26	Bar #2	82.00 - 85.04	1.0000	1.0000
L25	27	Bar #2	82.00 - 85.04	1.0000	1.0000
L25	28	Bar #2	82.00 - 85.04	1.0000	1.0000
L25	52	MP3-03 (1.1875in)	82.00 - 85.04	1.0000	1.0000
L25	53	MP3-03 (1.1875in)	82.00 - 85.04	1.0000	1.0000
L25	54	MP3-03 (1.1875in)	82.00 - 85.04	1.0000	1.0000
L25	70	(Area) CCI-65FP-040075 (H)	82.00 - 85.04	1.0000	1.0000
L25	71	(Area) CCI-65FP-040075 (H)	82.00 - 85.04	1.0000	1.0000
L25	72	(Area) CCI-65FP-040075 (H)	82.00 - 85.04	1.0000	1.0000
L25	78	(Area) CCI-65FP-045100 (H)	82.00 - 83.50	1.0000	1.0000
L25	79	(Area) CCI-65FP-045100 (H)	82.00 - 83.50	1.0000	1.0000
L25	80	(Area) CCI-65FP-045100 (H)	82.00 - 83.50	1.0000	1.0000

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<b>Client</b>	Crown Castle	<b>Designed by</b>	djbrevig

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L26	18	CU12PSM9P6XXX(1-1/2)	81.75 - 82.00	1.0000	1.0000
L26	26	Bar #2	81.75 - 82.00	1.0000	1.0000
L26	27	Bar #2	81.75 - 82.00	1.0000	1.0000
L26	28	Bar #2	81.75 - 82.00	1.0000	1.0000
L26	52	MP3-03 (1.1875in)	81.75 - 82.00	1.0000	1.0000
L26	53	MP3-03 (1.1875in)	81.75 - 82.00	1.0000	1.0000
L26	54	MP3-03 (1.1875in)	81.75 - 82.00	1.0000	1.0000
L26	70	(Area) CCI-65FP-040075 (H)	81.75 - 82.00	1.0000	1.0000
L26	71	(Area) CCI-65FP-040075 (H)	81.75 - 82.00	1.0000	1.0000
L26	72	(Area) CCI-65FP-040075 (H)	81.75 - 82.00	1.0000	1.0000
L26	78	(Area) CCI-65FP-045100 (H)	81.75 - 82.00	1.0000	1.0000
L26	79	(Area) CCI-65FP-045100 (H)	81.75 - 82.00	1.0000	1.0000
L26	80	(Area) CCI-65FP-045100 (H)	81.75 - 82.00	1.0000	1.0000
L27	18	CU12PSM9P6XXX(1-1/2)	77.50 - 81.75	1.0000	1.0000
L27	26	Bar #2	77.50 - 81.75	1.0000	1.0000
L27	27	Bar #2	77.50 - 81.75	1.0000	1.0000
L27	28	Bar #2	77.50 - 81.75	1.0000	1.0000
L27	52	MP3-03 (1.1875in)	77.50 - 81.75	1.0000	1.0000
L27	53	MP3-03 (1.1875in)	77.50 - 81.75	1.0000	1.0000
L27	54	MP3-03 (1.1875in)	77.50 - 81.75	1.0000	1.0000
L27	70	(Area) CCI-65FP-040075 (H)	77.50 - 81.75	1.0000	1.0000
L27	71	(Area) CCI-65FP-040075 (H)	77.50 - 81.75	1.0000	1.0000
L27	72	(Area) CCI-65FP-040075 (H)	77.50 - 81.75	1.0000	1.0000
L27	78	(Area) CCI-65FP-045100 (H)	77.50 - 81.75	1.0000	1.0000
L27	79	(Area) CCI-65FP-045100 (H)	77.50 - 81.75	1.0000	1.0000
L27	80	(Area) CCI-65FP-045100 (H)	77.50 - 81.75	1.0000	1.0000
L28	18	CU12PSM9P6XXX(1-1/2)	77.25 - 77.50	1.0000	1.0000
L28	26	Bar #2	77.25 - 77.50	1.0000	1.0000
L28	27	Bar #2	77.25 - 77.50	1.0000	1.0000
L28	28	Bar #2	77.25 - 77.50	1.0000	1.0000
L28	52	MP3-03 (1.1875in)	77.25 - 77.50	1.0000	1.0000
L28	53	MP3-03 (1.1875in)	77.25 - 77.50	1.0000	1.0000
L28	54	MP3-03 (1.1875in)	77.25 - 77.50	1.0000	1.0000
L28	70	(Area) CCI-65FP-040075 (H)	77.25 - 77.50	1.0000	1.0000
L28	71	(Area) CCI-65FP-040075 (H)	77.25 - 77.50	1.0000	1.0000
L28	72	(Area) CCI-65FP-040075 (H)	77.25 - 77.50	1.0000	1.0000
L28	78	(Area) CCI-65FP-045100 (H)	77.25 - 77.50	1.0000	1.0000
L28	79	(Area) CCI-65FP-045100 (H)	77.25 - 77.50	1.0000	1.0000
L28	80	(Area) CCI-65FP-045100 (H)	77.25 - 77.50	1.0000	1.0000
L29	18	CU12PSM9P6XXX(1-1/2)	75.00 - 77.25	1.0000	1.0000
L29	26	Bar #2	75.00 - 77.25	1.0000	1.0000
L29	27	Bar #2	75.00 - 77.25	1.0000	1.0000
L29	28	Bar #2	75.00 - 77.25	1.0000	1.0000
L29	34	MP3-03 (1.1875in)	75.00 - 76.00	1.0000	1.0000
L29	35	MP3-03 (1.1875in)	75.00 - 76.00	1.0000	1.0000
L29	36	MP3-03 (1.1875in)	75.00 - 76.00	1.0000	1.0000
L29	48	MP3-03 (1.1875in)	75.00 - 76.25	1.0000	1.0000
L29	49	MP3-03 (1.1875in)	75.00 - 76.25	1.0000	1.0000
L29	50	MP3-03 (1.1875in)	75.00 - 76.25	1.0000	1.0000
L29	52	MP3-03 (1.1875in)	76.25 - 77.25	1.0000	1.0000
L29	53	MP3-03 (1.1875in)	76.25 - 77.25	1.0000	1.0000
L29	54	MP3-03 (1.1875in)	76.25 - 77.25	1.0000	1.0000
L29	70	(Area) CCI-65FP-040075 (H)	75.00 - 77.25	1.0000	1.0000
L29	71	(Area) CCI-65FP-040075 (H)	75.00 - 77.25	1.0000	1.0000
L29	72	(Area) CCI-65FP-040075 (H)	75.00 - 77.25	1.0000	1.0000
L29	78	(Area) CCI-65FP-045100 (H)	75.00 - 77.25	1.0000	1.0000
L29	79	(Area) CCI-65FP-045100 (H)	75.00 - 77.25	1.0000	1.0000
L29	80	(Area) CCI-65FP-045100 (H)	75.00 - 77.25	1.0000	1.0000
L30	18	CU12PSM9P6XXX(1-1/2)	74.75 - 75.00	1.0000	1.0000
L30	20	LDF4-50A(1/2)	74.75 - 75.00	1.0000	1.0000
L30	26	Bar #2	74.75 - 75.00	1.0000	1.0000
L30	27	Bar #2	74.75 - 75.00	1.0000	1.0000

<p><b>Job</b></p> <p>Oxford / Fritz Property (BU 876362)</p>	<p><b>Page</b></p> <p>25 of 65</p>
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<p><b>Client</b></p> <p>Crown Castle</p>	<p><b>Designed by</b></p> <p>djbrevig</p>

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L30	28	Bar #2	74.75 - 75.00	1.0000	1.0000
L30	34	MP3-03 (1.1875in)	74.75 - 75.00	1.0000	1.0000
L30	35	MP3-03 (1.1875in)	74.75 - 75.00	1.0000	1.0000
L30	36	MP3-03 (1.1875in)	74.75 - 75.00	1.0000	1.0000
L30	48	MP3-03 (1.1875in)	74.75 - 75.00	1.0000	1.0000
L30	49	MP3-03 (1.1875in)	74.75 - 75.00	1.0000	1.0000
L30	50	MP3-03 (1.1875in)	74.75 - 75.00	1.0000	1.0000
L30	70	(Area) CCI-65FP-040075 (H)	74.75 - 75.00	1.0000	1.0000
L30	71	(Area) CCI-65FP-040075 (H)	74.75 - 75.00	1.0000	1.0000
L30	72	(Area) CCI-65FP-040075 (H)	74.75 - 75.00	1.0000	1.0000
L30	78	(Area) CCI-65FP-045100 (H)	74.75 - 75.00	1.0000	1.0000
L30	79	(Area) CCI-65FP-045100 (H)	74.75 - 75.00	1.0000	1.0000
L30	80	(Area) CCI-65FP-045100 (H)	74.75 - 75.00	1.0000	1.0000
L31	18	CU12PSM9P6XXX(1-1/2)	74.50 - 74.75	1.0000	1.0000
L31	20	LDF4-50A(1/2)	74.50 - 74.75	1.0000	1.0000
L31	26	Bar #2	74.50 - 74.75	1.0000	1.0000
L31	27	Bar #2	74.50 - 74.75	1.0000	1.0000
L31	28	Bar #2	74.50 - 74.75	1.0000	1.0000
L31	34	MP3-03 (1.1875in)	74.50 - 74.75	1.0000	1.0000
L31	35	MP3-03 (1.1875in)	74.50 - 74.75	1.0000	1.0000
L31	36	MP3-03 (1.1875in)	74.50 - 74.75	1.0000	1.0000
L31	48	MP3-03 (1.1875in)	74.50 - 74.75	1.0000	1.0000
L31	49	MP3-03 (1.1875in)	74.50 - 74.75	1.0000	1.0000
L31	50	MP3-03 (1.1875in)	74.50 - 74.75	1.0000	1.0000
L31	70	(Area) CCI-65FP-040075 (H)	74.50 - 74.75	1.0000	1.0000
L31	71	(Area) CCI-65FP-040075 (H)	74.50 - 74.75	1.0000	1.0000
L31	72	(Area) CCI-65FP-040075 (H)	74.50 - 74.75	1.0000	1.0000
L31	78	(Area) CCI-65FP-045100 (H)	74.50 - 74.75	1.0000	1.0000
L31	79	(Area) CCI-65FP-045100 (H)	74.50 - 74.75	1.0000	1.0000
L31	80	(Area) CCI-65FP-045100 (H)	74.50 - 74.75	1.0000	1.0000
L32	18	CU12PSM9P6XXX(1-1/2)	72.17 - 74.50	1.0000	1.0000
L32	20	LDF4-50A(1/2)	72.17 - 74.50	1.0000	1.0000
L32	26	Bar #2	72.17 - 74.50	1.0000	1.0000
L32	27	Bar #2	72.17 - 74.50	1.0000	1.0000
L32	28	Bar #2	72.17 - 74.50	1.0000	1.0000
L32	34	MP3-03 (1.1875in)	72.17 - 74.50	1.0000	1.0000
L32	35	MP3-03 (1.1875in)	72.17 - 74.50	1.0000	1.0000
L32	36	MP3-03 (1.1875in)	72.17 - 74.50	1.0000	1.0000
L32	48	MP3-03 (1.1875in)	72.17 - 74.50	1.0000	1.0000
L32	49	MP3-03 (1.1875in)	72.17 - 74.50	1.0000	1.0000
L32	50	MP3-03 (1.1875in)	72.17 - 74.50	1.0000	1.0000
L32	70	(Area) CCI-65FP-040075 (H)	72.17 - 74.50	1.0000	1.0000
L32	71	(Area) CCI-65FP-040075 (H)	72.17 - 74.50	1.0000	1.0000
L32	72	(Area) CCI-65FP-040075 (H)	72.17 - 74.50	1.0000	1.0000
L32	78	(Area) CCI-65FP-045100 (H)	73.50 - 74.50	1.0000	1.0000
L32	79	(Area) CCI-65FP-045100 (H)	73.50 - 74.50	1.0000	1.0000
L32	80	(Area) CCI-65FP-045100 (H)	73.50 - 74.50	1.0000	1.0000
L33	18	CU12PSM9P6XXX(1-1/2)	71.92 - 72.17	1.0000	1.0000
L33	20	LDF4-50A(1/2)	71.92 - 72.17	1.0000	1.0000
L33	22	Bar #1	71.92 - 72.17	1.0000	1.0000
L33	23	Bar #1	71.92 - 72.17	1.0000	1.0000
L33	24	Bar #1	71.92 - 72.17	1.0000	1.0000
L33	34	MP3-03 (1.1875in)	71.92 - 72.17	1.0000	1.0000
L33	35	MP3-03 (1.1875in)	71.92 - 72.17	1.0000	1.0000
L33	36	MP3-03 (1.1875in)	71.92 - 72.17	1.0000	1.0000
L33	48	MP3-03 (1.1875in)	71.92 - 72.17	1.0000	1.0000
L33	49	MP3-03 (1.1875in)	71.92 - 72.17	1.0000	1.0000
L33	50	MP3-03 (1.1875in)	71.92 - 72.17	1.0000	1.0000
L33	70	(Area) CCI-65FP-040075 (H)	71.92 - 72.17	1.0000	1.0000
L33	71	(Area) CCI-65FP-040075 (H)	71.92 - 72.17	1.0000	1.0000
L33	72	(Area) CCI-65FP-040075 (H)	71.92 - 72.17	1.0000	1.0000
L34	18	CU12PSM9P6XXX(1-1/2)	68.75 - 71.92	1.0000	1.0000

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<b>Client</b>	Crown Castle	<b>Designed by</b>	djbrevig

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L34	20	LDF4-50A(1/2)	68.75 - 71.92	1.0000	1.0000
L34	22	Bar #1	68.75 - 71.92	1.0000	1.0000
L34	23	Bar #1	68.75 - 71.92	1.0000	1.0000
L34	24	Bar #1	68.75 - 71.92	1.0000	1.0000
L34	34	MP3-03 (1.1875in)	68.75 - 71.92	1.0000	1.0000
L34	35	MP3-03 (1.1875in)	68.75 - 71.92	1.0000	1.0000
L34	36	MP3-03 (1.1875in)	68.75 - 71.92	1.0000	1.0000
L34	48	MP3-03 (1.1875in)	68.75 - 71.92	1.0000	1.0000
L34	49	MP3-03 (1.1875in)	68.75 - 71.92	1.0000	1.0000
L34	50	MP3-03 (1.1875in)	68.75 - 71.92	1.0000	1.0000
L34	66	(Area) CCI-65FP-060100 (H)	68.75 - 71.25	1.0000	1.0000
L34	67	(Area) CCI-65FP-060100 (H)	68.75 - 71.25	1.0000	1.0000
L34	68	(Area) CCI-65FP-060100 (H)	68.75 - 71.25	1.0000	1.0000
L34	70	(Area) CCI-65FP-040075 (H)	71.25 - 71.92	1.0000	1.0000
L34	71	(Area) CCI-65FP-040075 (H)	71.25 - 71.92	1.0000	1.0000
L34	72	(Area) CCI-65FP-040075 (H)	71.25 - 71.92	1.0000	1.0000
L35	18	CU12PSM9P6XXX(1-1/2)	68.50 - 68.75	1.0000	1.0000
L35	20	LDF4-50A(1/2)	68.50 - 68.75	1.0000	1.0000
L35	22	Bar #1	68.50 - 68.75	1.0000	1.0000
L35	23	Bar #1	68.50 - 68.75	1.0000	1.0000
L35	24	Bar #1	68.50 - 68.75	1.0000	1.0000
L35	34	MP3-03 (1.1875in)	68.50 - 68.75	1.0000	1.0000
L35	35	MP3-03 (1.1875in)	68.50 - 68.75	1.0000	1.0000
L35	36	MP3-03 (1.1875in)	68.50 - 68.75	1.0000	1.0000
L35	48	MP3-03 (1.1875in)	68.50 - 68.75	1.0000	1.0000
L35	49	MP3-03 (1.1875in)	68.50 - 68.75	1.0000	1.0000
L35	50	MP3-03 (1.1875in)	68.50 - 68.75	1.0000	1.0000
L35	66	(Area) CCI-65FP-060100 (H)	68.50 - 68.75	1.0000	1.0000
L35	67	(Area) CCI-65FP-060100 (H)	68.50 - 68.75	1.0000	1.0000
L35	68	(Area) CCI-65FP-060100 (H)	68.50 - 68.75	1.0000	1.0000
L36	18	CU12PSM9P6XXX(1-1/2)	63.50 - 68.50	1.0000	1.0000
L36	20	LDF4-50A(1/2)	63.50 - 68.50	1.0000	1.0000
L36	22	Bar #1	63.50 - 68.50	1.0000	1.0000
L36	23	Bar #1	63.50 - 68.50	1.0000	1.0000
L36	24	Bar #1	63.50 - 68.50	1.0000	1.0000
L36	34	MP3-03 (1.1875in)	63.50 - 68.50	1.0000	1.0000
L36	35	MP3-03 (1.1875in)	63.50 - 68.50	1.0000	1.0000
L36	36	MP3-03 (1.1875in)	63.50 - 68.50	1.0000	1.0000
L36	48	MP3-03 (1.1875in)	63.50 - 68.50	1.0000	1.0000
L36	49	MP3-03 (1.1875in)	63.50 - 68.50	1.0000	1.0000
L36	50	MP3-03 (1.1875in)	63.50 - 68.50	1.0000	1.0000
L36	66	(Area) CCI-65FP-060100 (H)	63.50 - 68.50	1.0000	1.0000
L36	67	(Area) CCI-65FP-060100 (H)	63.50 - 68.50	1.0000	1.0000
L36	68	(Area) CCI-65FP-060100 (H)	63.50 - 68.50	1.0000	1.0000
L37	18	CU12PSM9P6XXX(1-1/2)	58.50 - 63.50	1.0000	1.0000
L37	20	LDF4-50A(1/2)	58.50 - 63.50	1.0000	1.0000
L37	22	Bar #1	58.50 - 63.50	1.0000	1.0000
L37	23	Bar #1	58.50 - 63.50	1.0000	1.0000
L37	24	Bar #1	58.50 - 63.50	1.0000	1.0000
L37	34	MP3-03 (1.1875in)	58.50 - 63.50	1.0000	1.0000
L37	35	MP3-03 (1.1875in)	58.50 - 63.50	1.0000	1.0000
L37	36	MP3-03 (1.1875in)	58.50 - 63.50	1.0000	1.0000
L37	48	MP3-03 (1.1875in)	58.50 - 63.50	1.0000	1.0000
L37	49	MP3-03 (1.1875in)	58.50 - 63.50	1.0000	1.0000
L37	50	MP3-03 (1.1875in)	58.50 - 63.50	1.0000	1.0000
L37	66	(Area) CCI-65FP-060100 (H)	58.50 - 63.50	1.0000	1.0000
L37	67	(Area) CCI-65FP-060100 (H)	58.50 - 63.50	1.0000	1.0000
L37	68	(Area) CCI-65FP-060100 (H)	58.50 - 63.50	1.0000	1.0000
L38	18	CU12PSM9P6XXX(1-1/2)	53.50 - 58.50	1.0000	1.0000
L38	20	LDF4-50A(1/2)	53.50 - 58.50	1.0000	1.0000
L38	22	Bar #1	53.50 - 58.50	1.0000	1.0000
L38	23	Bar #1	53.50 - 58.50	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L38	24	Bar #1	53.50 - 58.50	1.0000	1.0000
L38	34	MP3-03 (1.1875in)	53.50 - 58.50	1.0000	1.0000
L38	35	MP3-03 (1.1875in)	53.50 - 58.50	1.0000	1.0000
L38	36	MP3-03 (1.1875in)	53.50 - 58.50	1.0000	1.0000
L38	48	MP3-03 (1.1875in)	53.50 - 58.50	1.0000	1.0000
L38	49	MP3-03 (1.1875in)	53.50 - 58.50	1.0000	1.0000
L38	50	MP3-03 (1.1875in)	53.50 - 58.50	1.0000	1.0000
L38	66	(Area) CCI-65FP-060100 (H)	53.50 - 58.50	1.0000	1.0000
L38	67	(Area) CCI-65FP-060100 (H)	53.50 - 58.50	1.0000	1.0000
L38	68	(Area) CCI-65FP-060100 (H)	53.50 - 58.50	1.0000	1.0000
L39	18	CU12PSM9P6XXX(1-1/2)	48.50 - 53.50	1.0000	1.0000
L39	20	LDF4-50A(1/2)	48.50 - 53.50	1.0000	1.0000
L39	22	Bar #1	48.50 - 53.50	1.0000	1.0000
L39	23	Bar #1	48.50 - 53.50	1.0000	1.0000
L39	24	Bar #1	48.50 - 53.50	1.0000	1.0000
L39	34	MP3-03 (1.1875in)	48.50 - 53.50	1.0000	1.0000
L39	35	MP3-03 (1.1875in)	48.50 - 53.50	1.0000	1.0000
L39	36	MP3-03 (1.1875in)	48.50 - 53.50	1.0000	1.0000
L39	48	MP3-03 (1.1875in)	48.50 - 53.50	1.0000	1.0000
L39	49	MP3-03 (1.1875in)	48.50 - 53.50	1.0000	1.0000
L39	50	MP3-03 (1.1875in)	48.50 - 53.50	1.0000	1.0000
L39	66	(Area) CCI-65FP-060100 (H)	48.50 - 53.50	1.0000	1.0000
L39	67	(Area) CCI-65FP-060100 (H)	48.50 - 53.50	1.0000	1.0000
L39	68	(Area) CCI-65FP-060100 (H)	48.50 - 53.50	1.0000	1.0000
L40	18	CU12PSM9P6XXX(1-1/2)	42.41 - 48.50	1.0000	1.0000
L40	20	LDF4-50A(1/2)	42.41 - 48.50	1.0000	1.0000
L40	22	Bar #1	42.42 - 48.50	1.0000	1.0000
L40	23	Bar #1	42.42 - 48.50	1.0000	1.0000
L40	24	Bar #1	42.42 - 48.50	1.0000	1.0000
L40	34	MP3-03 (1.1875in)	46.00 - 48.50	1.0000	1.0000
L40	35	MP3-03 (1.1875in)	46.00 - 48.50	1.0000	1.0000
L40	36	MP3-03 (1.1875in)	46.00 - 48.50	1.0000	1.0000
L40	40	MP3-05 (1.1875in)	42.41 - 46.25	1.0000	1.0000
L40	45	MP3-05 (1.1875in)	42.41 - 46.25	1.0000	1.0000
L40	46	MP3-05 (1.1875in)	42.41 - 46.25	1.0000	1.0000
L40	48	MP3-03 (1.1875in)	46.25 - 48.50	1.0000	1.0000
L40	49	MP3-03 (1.1875in)	46.25 - 48.50	1.0000	1.0000
L40	50	MP3-03 (1.1875in)	46.25 - 48.50	1.0000	1.0000
L40	66	(Area) CCI-65FP-060100 (H)	42.41 - 48.50	1.0000	1.0000
L40	67	(Area) CCI-65FP-060100 (H)	42.41 - 48.50	1.0000	1.0000
L40	68	(Area) CCI-65FP-060100 (H)	42.41 - 48.50	1.0000	1.0000
L41	18	CU12PSM9P6XXX(1-1/2)	41.41 - 42.41	1.0000	1.0000
L41	20	LDF4-50A(1/2)	41.41 - 42.41	1.0000	1.0000
L41	40	MP3-05 (1.1875in)	41.41 - 42.41	1.0000	1.0000
L41	45	MP3-05 (1.1875in)	41.41 - 42.41	1.0000	1.0000
L41	46	MP3-05 (1.1875in)	41.41 - 42.41	1.0000	1.0000
L41	66	(Area) CCI-65FP-060100 (H)	41.41 - 42.41	1.0000	1.0000
L41	67	(Area) CCI-65FP-060100 (H)	41.41 - 42.41	1.0000	1.0000
L41	68	(Area) CCI-65FP-060100 (H)	41.41 - 42.41	1.0000	1.0000
L42	18	CU12PSM9P6XXX(1-1/2)	36.41 - 41.41	1.0000	1.0000
L42	20	LDF4-50A(1/2)	36.41 - 41.41	1.0000	1.0000
L42	40	MP3-05 (1.1875in)	36.41 - 41.41	1.0000	1.0000
L42	45	MP3-05 (1.1875in)	36.41 - 41.41	1.0000	1.0000
L42	46	MP3-05 (1.1875in)	36.41 - 41.41	1.0000	1.0000
L42	66	(Area) CCI-65FP-060100 (H)	36.41 - 41.41	1.0000	1.0000
L42	67	(Area) CCI-65FP-060100 (H)	36.41 - 41.41	1.0000	1.0000
L42	68	(Area) CCI-65FP-060100 (H)	36.41 - 41.41	1.0000	1.0000
L43	18	CU12PSM9P6XXX(1-1/2)	32.75 - 36.41	1.0000	1.0000
L43	20	LDF4-50A(1/2)	32.75 - 36.41	1.0000	1.0000
L43	40	MP3-05 (1.1875in)	32.75 - 36.41	1.0000	1.0000
L43	45	MP3-05 (1.1875in)	32.75 - 36.41	1.0000	1.0000
L43	46	MP3-05 (1.1875in)	32.75 - 36.41	1.0000	1.0000



Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	$K_a$ No Ice	$K_a$ Ice
L43	60	(Area) CCI-65FP-065125 (H)	32.75 - 36.25	1.0000	1.0000
L43	62	(Area) CCI-65FP-065125 (Mod) (H)	32.75 - 36.25	1.0000	1.0000
L43	64	(Area) CCI-65FP-065125 (H)	32.75 - 36.25	1.0000	1.0000
L43	66	(Area) CCI-65FP-060100 (H)	36.25 - 36.41	1.0000	1.0000
L43	67	(Area) CCI-65FP-060100 (H)	36.25 - 36.41	1.0000	1.0000
L43	68	(Area) CCI-65FP-060100 (H)	36.25 - 36.41	1.0000	1.0000
L44	18	CU12PSM9P6XXX(1-1/2)	32.50 - 32.75	1.0000	1.0000
L44	20	LDF4-50A(1/2)	32.50 - 32.75	1.0000	1.0000
L44	40	MP3-05 (1.1875in)	32.50 - 32.75	1.0000	1.0000
L44	45	MP3-05 (1.1875in)	32.50 - 32.75	1.0000	1.0000
L44	46	MP3-05 (1.1875in)	32.50 - 32.75	1.0000	1.0000
L44	60	(Area) CCI-65FP-065125 (H)	32.50 - 32.75	1.0000	1.0000
L44	62	(Area) CCI-65FP-065125 (Mod) (H)	32.50 - 32.75	1.0000	1.0000
L44	64	(Area) CCI-65FP-065125 (H)	32.50 - 32.75	1.0000	1.0000
L45	18	CU12PSM9P6XXX(1-1/2)	31.25 - 32.50	1.0000	1.0000
L45	20	LDF4-50A(1/2)	31.25 - 32.50	1.0000	1.0000
L45	40	MP3-05 (1.1875in)	31.25 - 32.50	1.0000	1.0000
L45	45	MP3-05 (1.1875in)	31.25 - 32.50	1.0000	1.0000
L45	46	MP3-05 (1.1875in)	31.25 - 32.50	1.0000	1.0000
L45	60	(Area) CCI-65FP-065125 (H)	31.25 - 32.50	1.0000	1.0000
L45	62	(Area) CCI-65FP-065125 (Mod) (H)	31.25 - 32.50	1.0000	1.0000
L45	64	(Area) CCI-65FP-065125 (H)	31.25 - 32.50	1.0000	1.0000
L46	18	CU12PSM9P6XXX(1-1/2)	31.00 - 31.25	1.0000	1.0000
L46	20	LDF4-50A(1/2)	31.00 - 31.25	1.0000	1.0000
L46	40	MP3-05 (1.1875in)	31.00 - 31.25	1.0000	1.0000
L46	42	MP3-05 (1.1875in)	31.00 - 31.25	1.0000	1.0000
L46	43	MP3-05 (1.1875in)	31.00 - 31.25	1.0000	1.0000
L46	60	(Area) CCI-65FP-065125 (H)	31.00 - 31.25	1.0000	1.0000
L46	62	(Area) CCI-65FP-065125 (Mod) (H)	31.00 - 31.25	1.0000	1.0000
L46	64	(Area) CCI-65FP-065125 (H)	31.00 - 31.25	1.0000	1.0000
L47	18	CU12PSM9P6XXX(1-1/2)	26.00 - 31.00	1.0000	1.0000
L47	20	LDF4-50A(1/2)	26.00 - 31.00	1.0000	1.0000
L47	40	MP3-05 (1.1875in)	26.00 - 31.00	1.0000	1.0000
L47	42	MP3-05 (1.1875in)	26.00 - 31.00	1.0000	1.0000
L47	43	MP3-05 (1.1875in)	26.00 - 31.00	1.0000	1.0000
L47	60	(Area) CCI-65FP-065125 (H)	26.00 - 31.00	1.0000	1.0000
L47	62	(Area) CCI-65FP-065125 (Mod) (H)	26.00 - 31.00	1.0000	1.0000
L47	64	(Area) CCI-65FP-065125 (H)	26.00 - 31.00	1.0000	1.0000
L48	18	CU12PSM9P6XXX(1-1/2)	21.00 - 26.00	1.0000	1.0000
L48	20	LDF4-50A(1/2)	21.00 - 26.00	1.0000	1.0000
L48	38	MP3-05 (1.1875in)	21.00 - 21.25	1.0000	1.0000
L48	40	MP3-05 (1.1875in)	21.00 - 26.00	1.0000	1.0000
L48	42	MP3-05 (1.1875in)	21.00 - 26.00	1.0000	1.0000
L48	43	MP3-05 (1.1875in)	21.00 - 26.00	1.0000	1.0000
L48	60	(Area) CCI-65FP-065125 (H)	21.00 - 26.00	1.0000	1.0000
L48	62	(Area) CCI-65FP-065125 (Mod) (H)	21.00 - 26.00	1.0000	1.0000
L48	64	(Area) CCI-65FP-065125 (H)	21.00 - 26.00	1.0000	1.0000
L49	18	CU12PSM9P6XXX(1-1/2)	18.75 - 21.00	1.0000	1.0000
L49	20	LDF4-50A(1/2)	18.75 - 21.00	1.0000	1.0000
L49	38	MP3-05 (1.1875in)	18.75 - 21.00	1.0000	1.0000
L49	40	MP3-05 (1.1875in)	18.75 - 21.00	1.0000	1.0000
L49	42	MP3-05 (1.1875in)	18.75 - 21.00	1.0000	1.0000
L49	43	MP3-05 (1.1875in)	18.75 - 21.00	1.0000	1.0000
L49	60	(Area) CCI-65FP-065125 (H)	18.75 - 21.00	1.0000	1.0000
L49	62	(Area) CCI-65FP-065125 (Mod) (H)	18.75 - 21.00	1.0000	1.0000



Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L49	64	(Area) CCI-65FP-065125 (H)	18.75 - 21.00	1.0000	1.0000
L50	18	CU12PSM9P6XXX(1-1/2)	18.50 - 18.75	1.0000	1.0000
L50	20	LDF4-50A(1/2)	18.50 - 18.75	1.0000	1.0000
L50	38	MP3-05 (1.1875in)	18.50 - 18.75	1.0000	1.0000
L50	40	MP3-05 (1.1875in)	18.50 - 18.75	1.0000	1.0000
L50	42	MP3-05 (1.1875in)	18.50 - 18.75	1.0000	1.0000
L50	43	MP3-05 (1.1875in)	18.50 - 18.75	1.0000	1.0000
L50	60	(Area) CCI-65FP-065125 (H)	18.50 - 18.75	1.0000	1.0000
L50	62	(Area) CCI-65FP-065125 (Mod) (H)	18.50 - 18.75	1.0000	1.0000
L50	64	(Area) CCI-65FP-065125 (H)	18.50 - 18.75	1.0000	1.0000
L51	18	CU12PSM9P6XXX(1-1/2)	15.00 - 18.50	1.0000	1.0000
L51	20	LDF4-50A(1/2)	15.00 - 18.50	1.0000	1.0000
L51	38	MP3-05 (1.1875in)	15.00 - 18.50	1.0000	1.0000
L51	40	MP3-05 (1.1875in)	16.25 - 18.50	1.0000	1.0000
L51	42	MP3-05 (1.1875in)	15.00 - 18.50	1.0000	1.0000
L51	43	MP3-05 (1.1875in)	15.00 - 18.50	1.0000	1.0000
L51	60	(Area) CCI-65FP-065125 (H)	15.00 - 18.50	1.0000	1.0000
L51	62	(Area) CCI-65FP-065125 (Mod) (H)	15.00 - 18.50	1.0000	1.0000
L51	64	(Area) CCI-65FP-065125 (H)	15.00 - 18.50	1.0000	1.0000
L52	18	CU12PSM9P6XXX(1-1/2)	14.75 - 15.00	1.0000	1.0000
L52	20	LDF4-50A(1/2)	14.75 - 15.00	1.0000	1.0000
L52	38	MP3-05 (1.1875in)	14.75 - 15.00	1.0000	1.0000
L52	42	MP3-05 (1.1875in)	14.75 - 15.00	1.0000	1.0000
L52	43	MP3-05 (1.1875in)	14.75 - 15.00	1.0000	1.0000
L52	60	(Area) CCI-65FP-065125 (H)	14.75 - 15.00	1.0000	1.0000
L52	62	(Area) CCI-65FP-065125 (Mod) (H)	14.75 - 15.00	1.0000	1.0000
L52	64	(Area) CCI-65FP-065125 (H)	14.75 - 15.00	1.0000	1.0000
L53	18	CU12PSM9P6XXX(1-1/2)	9.75 - 14.75	1.0000	1.0000
L53	20	LDF4-50A(1/2)	9.75 - 14.75	1.0000	1.0000
L53	38	MP3-05 (1.1875in)	9.75 - 14.75	1.0000	1.0000
L53	42	MP3-05 (1.1875in)	9.75 - 14.75	1.0000	1.0000
L53	43	MP3-05 (1.1875in)	9.75 - 14.75	1.0000	1.0000
L53	60	(Area) CCI-65FP-065125 (H)	9.75 - 14.75	1.0000	1.0000
L53	62	(Area) CCI-65FP-065125 (Mod) (H)	9.75 - 14.75	1.0000	1.0000
L53	64	(Area) CCI-65FP-065125 (H)	11.50 - 14.75	1.0000	1.0000
L54	18	CU12PSM9P6XXX(1-1/2)	4.75 - 9.75	1.0000	1.0000
L54	20	LDF4-50A(1/2)	4.75 - 9.75	1.0000	1.0000
L54	38	MP3-05 (1.1875in)	4.75 - 9.75	1.0000	1.0000
L54	42	MP3-05 (1.1875in)	4.75 - 9.75	1.0000	1.0000
L54	43	MP3-05 (1.1875in)	4.75 - 9.75	1.0000	1.0000
L54	60	(Area) CCI-65FP-065125 (H)	4.75 - 9.75	1.0000	1.0000
L54	62	(Area) CCI-65FP-065125 (Mod) (H)	4.75 - 9.75	1.0000	1.0000
L55	18	CU12PSM9P6XXX(1-1/2)	1.25 - 4.75	1.0000	1.0000
L55	20	LDF4-50A(1/2)	1.25 - 4.75	1.0000	1.0000
L55	38	MP3-05 (1.1875in)	1.25 - 4.75	1.0000	1.0000
L55	42	MP3-05 (1.1875in)	1.25 - 4.75	1.0000	1.0000
L55	43	MP3-05 (1.1875in)	1.25 - 4.75	1.0000	1.0000
L55	60	(Area) CCI-65FP-065125 (H)	1.25 - 4.75	1.0000	1.0000
L55	62	(Area) CCI-65FP-065125 (Mod) (H)	1.25 - 4.75	1.0000	1.0000
L56	18	CU12PSM9P6XXX(1-1/2)	1.00 - 1.25	1.0000	1.0000
L56	20	LDF4-50A(1/2)	1.00 - 1.25	1.0000	1.0000
L56	38	MP3-05 (1.1875in)	1.00 - 1.25	1.0000	1.0000
L56	42	MP3-05 (1.1875in)	1.00 - 1.25	1.0000	1.0000
L56	43	MP3-05 (1.1875in)	1.00 - 1.25	1.0000	1.0000
L56	60	(Area) CCI-65FP-065125 (H)	1.00 - 1.25	1.0000	1.0000
L56	62	(Area) CCI-65FP-065125 (Mod) (H)	1.00 - 1.25	1.0000	1.0000

<b>tnxTower</b>  <b>Tower Engineering Professionals, Inc.</b> 326 Tryon Road Raleigh, NC 27603 Phone: (919) 661 6351 FAX: (919) 661 6350	<b>Job</b> Oxford / Fritz Property (BU 876362)	<b>Page</b> 30 of 65
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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
		(Mod) (H)			
L57	18	CU12PSM9P6XXX(1-1/2)	0.00 - 1.00	1.0000	1.0000
L57	20	LDF4-50A(1/2)	0.00 - 1.00	1.0000	1.0000
L57	38	MP3-05 (1.1875in)	0.00 - 1.00	1.0000	1.0000
L57	42	MP3-05 (1.1875in)	0.00 - 1.00	1.0000	1.0000
L57	43	MP3-05 (1.1875in)	0.00 - 1.00	1.0000	1.0000
L57	60	(Area) CCI-65FP-065125 (H)	0.00 - 1.00	1.0000	1.0000
L57	62	(Area) CCI-65FP-065125 (Mod) (H)	0.00 - 1.00	1.0000	1.0000

### Effective Width of Flat Linear Attachments / Feed Lines

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L5	82	(Area) CCI-65FP-040075 (H)	123.42 - 123.75	Auto	0.1715
L5	83	(Area) CCI-65FP-040075 (H)	123.42 - 123.75	Auto	0.1715
L5	84	(Area) CCI-65FP-040075 (H)	123.42 - 123.75	Auto	0.1715
L6	82	(Area) CCI-65FP-040075 (H)	122.25 - 123.42	Auto	0.2089
L6	83	(Area) CCI-65FP-040075 (H)	122.25 - 123.42	Auto	0.2089
L6	84	(Area) CCI-65FP-040075 (H)	122.25 - 123.42	Auto	0.2089
L7	82	(Area) CCI-65FP-040075 (H)	122.00 - 122.25	Auto	0.2738
L7	83	(Area) CCI-65FP-040075 (H)	122.00 - 122.25	Auto	0.2738
L7	84	(Area) CCI-65FP-040075 (H)	122.00 - 122.25	Auto	0.2738
L8	74	(Area) CCI-65FP-040075 (H)	120.25 - 121.25	Auto	0.2609
L8	75	(Area) CCI-65FP-040075 (H)	120.25 - 121.25	Auto	0.2609
L8	76	(Area) CCI-65FP-040075 (H)	120.25 - 121.25	Auto	0.2609
L8	82	(Area) CCI-65FP-040075 (H)	120.25 - 122.00	Auto	0.2644
L8	83	(Area) CCI-65FP-040075 (H)	120.25 - 122.00	Auto	0.2644
L8	84	(Area) CCI-65FP-040075 (H)	120.25 - 122.00	Auto	0.2644
L9	74	(Area) CCI-65FP-040075 (H)	120.00 - 120.25	Auto	0.3266
L9	75	(Area) CCI-65FP-040075 (H)	120.00 - 120.25	Auto	0.3266
L9	76	(Area) CCI-65FP-040075 (H)	120.00 - 120.25	Auto	0.3266
L9	82	(Area) CCI-65FP-040075 (H)	120.00 - 120.25	Auto	0.3266
L9	83	(Area) CCI-65FP-040075 (H)	120.00 -	Auto	0.3266

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Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L9	84	(Area) CCI-65FP-040075 (H)	120.25 120.00 - 120.25	Auto	0.3266
L10	56	MP3-03 (1.1875in)	115.25 - 116.25	Auto	0.2908
L10	57	MP3-03 (1.1875in)	115.25 - 116.25	Auto	0.2908
L10	58	MP3-03 (1.1875in)	115.25 - 116.25	Auto	0.2908
L10	74	(Area) CCI-65FP-040075 (H)	115.25 - 120.00	Auto	0.2977
L10	75	(Area) CCI-65FP-040075 (H)	115.25 - 120.00	Auto	0.2977
L10	76	(Area) CCI-65FP-040075 (H)	115.25 - 120.00	Auto	0.2977
L10	82	(Area) CCI-65FP-040075 (H)	115.25 - 120.00	Auto	0.2977
L10	83	(Area) CCI-65FP-040075 (H)	115.25 - 120.00	Auto	0.2977
L10	84	(Area) CCI-65FP-040075 (H)	115.25 - 120.00	Auto	0.2977
L11	56	MP3-03 (1.1875in)	115.00 - 115.25	Auto	0.2146
L11	57	MP3-03 (1.1875in)	115.00 - 115.25	Auto	0.2146
L11	58	MP3-03 (1.1875in)	115.00 - 115.25	Auto	0.2146
L11	74	(Area) CCI-65FP-040075 (H)	115.00 - 115.25	Auto	0.2028
L11	75	(Area) CCI-65FP-040075 (H)	115.00 - 115.25	Auto	0.2028
L11	76	(Area) CCI-65FP-040075 (H)	115.00 - 115.25	Auto	0.2028
L11	82	(Area) CCI-65FP-040075 (H)	115.00 - 115.25	Auto	0.2028
L11	83	(Area) CCI-65FP-040075 (H)	115.00 - 115.25	Auto	0.2028
L11	84	(Area) CCI-65FP-040075 (H)	115.00 - 115.25	Auto	0.2028
L12	56	MP3-03 (1.1875in)	114.75 - 115.00	Auto	0.2773
L12	57	MP3-03 (1.1875in)	114.75 - 115.00	Auto	0.2773
L12	58	MP3-03 (1.1875in)	114.75 - 115.00	Auto	0.2773
L12	74	(Area) CCI-65FP-040075 (H)	114.75 - 115.00	Auto	0.2665
L12	75	(Area) CCI-65FP-040075 (H)	114.75 - 115.00	Auto	0.2665
L12	76	(Area) CCI-65FP-040075 (H)	114.75 - 115.00	Auto	0.2665
L12	82	(Area) CCI-65FP-040075 (H)	114.75 - 115.00	Auto	0.2665
L12	83	(Area) CCI-65FP-040075 (H)	114.75 - 115.00	Auto	0.2665
L12	84	(Area) CCI-65FP-040075 (H)	114.75 - 115.00	Auto	0.2665
L13	56	MP3-03 (1.1875in)	109.75 - 114.75	Auto	0.2477
L13	57	MP3-03 (1.1875in)	109.75 - 114.75	Auto	0.2477

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Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L13	58	MP3-03 (1.1875in)	109.75 - 114.75	Auto	0.2477
L13	74	(Area) CCI-65FP-040075 (H)	109.75 - 114.75	Auto	0.2364
L13	75	(Area) CCI-65FP-040075 (H)	109.75 - 114.75	Auto	0.2364
L13	76	(Area) CCI-65FP-040075 (H)	109.75 - 114.75	Auto	0.2364
L13	82	(Area) CCI-65FP-040075 (H)	113.75 - 114.75	Auto	0.2551
L13	83	(Area) CCI-65FP-040075 (H)	113.75 - 114.75	Auto	0.2551
L13	84	(Area) CCI-65FP-040075 (H)	113.75 - 114.75	Auto	0.2551
L14	30	Bar #3	105.25 - 106.50	Auto	0.0178
L14	31	Bar #3	105.25 - 106.50	Auto	0.0178
L14	32	Bar #3	105.25 - 106.50	Auto	0.0178
L14	56	MP3-03 (1.1875in)	105.25 - 109.75	Auto	0.1985
L14	57	MP3-03 (1.1875in)	105.25 - 109.75	Auto	0.1985
L14	58	MP3-03 (1.1875in)	105.25 - 109.75	Auto	0.1985
L14	74	(Area) CCI-65FP-040075 (H)	105.25 - 109.75	Auto	0.1865
L14	75	(Area) CCI-65FP-040075 (H)	105.25 - 109.75	Auto	0.1865
L14	76	(Area) CCI-65FP-040075 (H)	105.25 - 109.75	Auto	0.1865
L15	30	Bar #3	105.00 - 105.25	Auto	0.1203
L15	31	Bar #3	105.00 - 105.25	Auto	0.1203
L15	32	Bar #3	105.00 - 105.25	Auto	0.1203
L15	56	MP3-03 (1.1875in)	105.00 - 105.25	Auto	0.2687
L15	57	MP3-03 (1.1875in)	105.00 - 105.25	Auto	0.2687
L15	58	MP3-03 (1.1875in)	105.00 - 105.25	Auto	0.2687
L15	74	(Area) CCI-65FP-040075 (H)	105.00 - 105.25	Auto	0.2577
L15	75	(Area) CCI-65FP-040075 (H)	105.00 - 105.25	Auto	0.2577
L15	76	(Area) CCI-65FP-040075 (H)	105.00 - 105.25	Auto	0.2577
L16	30	Bar #3	101.92 - 105.00	Auto	0.0953
L16	31	Bar #3	101.92 - 105.00	Auto	0.0953
L16	32	Bar #3	101.92 - 105.00	Auto	0.0953
L16	56	MP3-03 (1.1875in)	101.92 - 105.00	Auto	0.2479
L16	57	MP3-03 (1.1875in)	101.92 - 105.00	Auto	0.2479
L16	58	MP3-03 (1.1875in)	101.92 - 105.00	Auto	0.2479

<i>Tower Section</i>	<i>Attachment Record No.</i>	<i>Description</i>	<i>Attachment Segment Elev.</i>	<i>Ratio Calculation Method</i>	<i>Effective Width Ratio</i>
L16	74	(Area) CCI-65FP-040075 (H)	105.00 101.92 - 105.00	Auto	0.2367
L16	75	(Area) CCI-65FP-040075 (H)	101.92 - 105.00	Auto	0.2367
L16	76	(Area) CCI-65FP-040075 (H)	101.92 - 105.00	Auto	0.2367
L17	26	Bar #2	101.67 - 101.92	Auto	0.2073
L17	27	Bar #2	101.67 - 101.92	Auto	0.2073
L17	28	Bar #2	101.67 - 101.92	Auto	0.2073
L17	56	MP3-03 (1.1875in)	101.67 - 101.92	Auto	0.2434
L17	57	MP3-03 (1.1875in)	101.67 - 101.92	Auto	0.2434
L17	58	MP3-03 (1.1875in)	101.67 - 101.92	Auto	0.2434
L17	74	(Area) CCI-65FP-040075 (H)	101.67 - 101.92	Auto	0.2321
L17	75	(Area) CCI-65FP-040075 (H)	101.67 - 101.92	Auto	0.2321
L17	76	(Area) CCI-65FP-040075 (H)	101.67 - 101.92	Auto	0.2321
L18	26	Bar #2	101.25 - 101.67	Auto	0.2041
L18	27	Bar #2	101.25 - 101.67	Auto	0.2041
L18	28	Bar #2	101.25 - 101.67	Auto	0.2041
L18	56	MP3-03 (1.1875in)	101.25 - 101.67	Auto	0.2403
L18	57	MP3-03 (1.1875in)	101.25 - 101.67	Auto	0.2403
L18	58	MP3-03 (1.1875in)	101.25 - 101.67	Auto	0.2403
L18	74	(Area) CCI-65FP-040075 (H)	101.25 - 101.67	Auto	0.2289
L18	75	(Area) CCI-65FP-040075 (H)	101.25 - 101.67	Auto	0.2289
L18	76	(Area) CCI-65FP-040075 (H)	101.25 - 101.67	Auto	0.2289
L19	26	Bar #2	101.00 - 101.25	Auto	0.2008
L19	27	Bar #2	101.00 - 101.25	Auto	0.2008
L19	28	Bar #2	101.00 - 101.25	Auto	0.2008
L19	52	MP3-03 (1.1875in)	101.00 - 101.25	Auto	0.2372
L19	53	MP3-03 (1.1875in)	101.00 - 101.25	Auto	0.2372
L19	54	MP3-03 (1.1875in)	101.00 - 101.25	Auto	0.2372
L19	70	(Area) CCI-65FP-040075 (H)	101.00 - 101.25	Auto	0.2258
L19	71	(Area) CCI-65FP-040075 (H)	101.00 - 101.25	Auto	0.2258
L19	72	(Area) CCI-65FP-040075 (H)	101.00 - 101.25	Auto	0.2258

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Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L20	26	Bar #2	100.25 - 101.00	Auto	0.1960
L20	27	Bar #2	100.25 - 101.00	Auto	0.1960
L20	28	Bar #2	100.25 - 101.00	Auto	0.1960
L20	52	MP3-03 (1.1875in)	100.25 - 101.00	Auto	0.2326
L20	53	MP3-03 (1.1875in)	100.25 - 101.00	Auto	0.2326
L20	54	MP3-03 (1.1875in)	100.25 - 101.00	Auto	0.2326
L20	70	(Area) CCI-65FP-040075 (H)	100.25 - 101.00	Auto	0.2211
L20	71	(Area) CCI-65FP-040075 (H)	100.25 - 101.00	Auto	0.2211
L20	72	(Area) CCI-65FP-040075 (H)	100.25 - 101.00	Auto	0.2211
L21	26	Bar #2	100.00 - 100.25	Auto	0.1855
L21	27	Bar #2	100.00 - 100.25	Auto	0.1855
L21	28	Bar #2	100.00 - 100.25	Auto	0.1855
L21	52	MP3-03 (1.1875in)	100.00 - 100.25	Auto	0.2226
L21	53	MP3-03 (1.1875in)	100.00 - 100.25	Auto	0.2226
L21	54	MP3-03 (1.1875in)	100.00 - 100.25	Auto	0.2226
L21	70	(Area) CCI-65FP-040075 (H)	100.00 - 100.25	Auto	0.2110
L21	71	(Area) CCI-65FP-040075 (H)	100.00 - 100.25	Auto	0.2110
L21	72	(Area) CCI-65FP-040075 (H)	100.00 - 100.25	Auto	0.2110
L22	26	Bar #2	95.00 - 100.00	Auto	0.1488
L22	27	Bar #2	95.00 - 100.00	Auto	0.1488
L22	28	Bar #2	95.00 - 100.00	Auto	0.1488
L22	52	MP3-03 (1.1875in)	95.00 - 100.00	Auto	0.1876
L22	53	MP3-03 (1.1875in)	95.00 - 100.00	Auto	0.1876
L22	54	MP3-03 (1.1875in)	95.00 - 100.00	Auto	0.1876
L22	70	(Area) CCI-65FP-040075 (H)	95.00 - 100.00	Auto	0.1754
L22	71	(Area) CCI-65FP-040075 (H)	95.00 - 100.00	Auto	0.1754
L22	72	(Area) CCI-65FP-040075 (H)	95.00 - 100.00	Auto	0.1754
L23	26	Bar #2	85.96 - 95.00	Auto	0.0753
L23	27	Bar #2	85.96 - 95.00	Auto	0.0753
L23	28	Bar #2	85.96 - 95.00	Auto	0.0753
L23	52	MP3-03 (1.1875in)	85.96 - 95.00	Auto	0.1174
L23	53	MP3-03 (1.1875in)	85.96 - 95.00	Auto	0.1174
L23	54	MP3-03 (1.1875in)	85.96 - 95.00	Auto	0.1174
L23	70	(Area) CCI-65FP-040075 (H)	85.96 - 95.00	Auto	0.1042
L23	71	(Area) CCI-65FP-040075 (H)	85.96 - 95.00	Auto	0.1042
L23	72	(Area) CCI-65FP-040075 (H)	85.96 - 95.00	Auto	0.1042
L24	26	Bar #2	85.04 - 85.96	Auto	0.0726
L24	27	Bar #2	85.04 - 85.96	Auto	0.0726
L24	28	Bar #2	85.04 - 85.96	Auto	0.0726
L24	52	MP3-03 (1.1875in)	85.04 - 85.96	Auto	0.1148
L24	53	MP3-03 (1.1875in)	85.04 - 85.96	Auto	0.1148
L24	54	MP3-03 (1.1875in)	85.04 - 85.96	Auto	0.1148
L24	70	(Area) CCI-65FP-040075 (H)	85.04 - 85.96	Auto	0.1015

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L24	71	(Area) CCI-65FP-040075 (H)	85.04 - 85.96	Auto	0.1015
L24	72	(Area) CCI-65FP-040075 (H)	85.04 - 85.96	Auto	0.1015
L25	26	Bar #2	82.00 - 85.04	Auto	0.0477
L25	27	Bar #2	82.00 - 85.04	Auto	0.0477
L25	28	Bar #2	82.00 - 85.04	Auto	0.0477
L25	52	MP3-03 (1.1875in)	82.00 - 85.04	Auto	0.0911
L25	53	MP3-03 (1.1875in)	82.00 - 85.04	Auto	0.0911
L25	54	MP3-03 (1.1875in)	82.00 - 85.04	Auto	0.0911
L25	70	(Area) CCI-65FP-040075 (H)	82.00 - 85.04	Auto	0.0775
L25	71	(Area) CCI-65FP-040075 (H)	82.00 - 85.04	Auto	0.0775
L25	72	(Area) CCI-65FP-040075 (H)	82.00 - 85.04	Auto	0.0775
L25	78	(Area) CCI-65FP-045100 (H)	82.00 - 83.50	Auto	0.1736
L25	79	(Area) CCI-65FP-045100 (H)	82.00 - 83.50	Auto	0.1736
L25	80	(Area) CCI-65FP-045100 (H)	82.00 - 83.50	Auto	0.1736
L26	26	Bar #2	81.75 - 82.00	Auto	0.1170
L26	27	Bar #2	81.75 - 82.00	Auto	0.1170
L26	28	Bar #2	81.75 - 82.00	Auto	0.1170
L26	52	MP3-03 (1.1875in)	81.75 - 82.00	Auto	0.1572
L26	53	MP3-03 (1.1875in)	81.75 - 82.00	Auto	0.1572
L26	54	MP3-03 (1.1875in)	81.75 - 82.00	Auto	0.1572
L26	70	(Area) CCI-65FP-040075 (H)	81.75 - 82.00	Auto	0.1446
L26	71	(Area) CCI-65FP-040075 (H)	81.75 - 82.00	Auto	0.1446
L26	72	(Area) CCI-65FP-040075 (H)	81.75 - 82.00	Auto	0.1446
L26	78	(Area) CCI-65FP-045100 (H)	81.75 - 82.00	Auto	0.2396
L26	79	(Area) CCI-65FP-045100 (H)	81.75 - 82.00	Auto	0.2396
L26	80	(Area) CCI-65FP-045100 (H)	81.75 - 82.00	Auto	0.2396
L27	26	Bar #2	77.50 - 81.75	Auto	0.0895
L27	27	Bar #2	77.50 - 81.75	Auto	0.0895
L27	28	Bar #2	77.50 - 81.75	Auto	0.0895
L27	52	MP3-03 (1.1875in)	77.50 - 81.75	Auto	0.1310
L27	53	MP3-03 (1.1875in)	77.50 - 81.75	Auto	0.1310
L27	54	MP3-03 (1.1875in)	77.50 - 81.75	Auto	0.1310
L27	70	(Area) CCI-65FP-040075 (H)	77.50 - 81.75	Auto	0.1180
L27	71	(Area) CCI-65FP-040075 (H)	77.50 - 81.75	Auto	0.1180
L27	72	(Area) CCI-65FP-040075 (H)	77.50 - 81.75	Auto	0.1180
L27	78	(Area) CCI-65FP-045100 (H)	77.50 - 81.75	Auto	0.2160
L27	79	(Area) CCI-65FP-045100 (H)	77.50 - 81.75	Auto	0.2160
L27	80	(Area) CCI-65FP-045100 (H)	77.50 - 81.75	Auto	0.2160
L28	26	Bar #2	77.25 - 77.50	Auto	0.0110
L28	27	Bar #2	77.25 - 77.50	Auto	0.0110
L28	28	Bar #2	77.25 - 77.50	Auto	0.0110
L28	52	MP3-03 (1.1875in)	77.25 - 77.50	Auto	0.0560
L28	53	MP3-03 (1.1875in)	77.25 - 77.50	Auto	0.0560
L28	54	MP3-03 (1.1875in)	77.25 - 77.50	Auto	0.0560
L28	70	(Area) CCI-65FP-040075 (H)	77.25 - 77.50	Auto	0.0419
L28	71	(Area) CCI-65FP-040075 (H)	77.25 - 77.50	Auto	0.0419
L28	72	(Area) CCI-65FP-040075 (H)	77.25 - 77.50	Auto	0.0419
L28	78	(Area) CCI-65FP-045100 (H)	77.25 - 77.50	Auto	0.1483
L28	79	(Area) CCI-65FP-045100 (H)	77.25 - 77.50	Auto	0.1483
L28	80	(Area) CCI-65FP-045100 (H)	77.25 - 77.50	Auto	0.1483
L29	26	Bar #2	75.00 - 77.25	Auto	0.0004
L29	27	Bar #2	75.00 - 77.25	Auto	0.0004
L29	28	Bar #2	75.00 - 77.25	Auto	0.0004
L29	34	MP3-03 (1.1875in)	75.00 - 76.00	Auto	0.0333
L29	35	MP3-03 (1.1875in)	75.00 - 76.00	Auto	0.0333
L29	36	MP3-03 (1.1875in)	75.00 - 76.00	Auto	0.0333
L29	48	MP3-03 (1.1875in)	75.00 - 76.25	Auto	0.0344
L29	49	MP3-03 (1.1875in)	75.00 - 76.25	Auto	0.0344
L29	50	MP3-03 (1.1875in)	75.00 - 76.25	Auto	0.0344
L29	52	MP3-03 (1.1875in)	76.25 - 77.25	Auto	0.0448
L29	53	MP3-03 (1.1875in)	76.25 - 77.25	Auto	0.0448



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Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L29	54	MP3-03 (1.1875in)	76.25 - 77.25	Auto	0.0448
L29	70	(Area) CCI-65FP-040075 (H)	75.00 - 77.25	Auto	0.0247
L29	71	(Area) CCI-65FP-040075 (H)	75.00 - 77.25	Auto	0.0247
L29	72	(Area) CCI-65FP-040075 (H)	75.00 - 77.25	Auto	0.0247
L29	78	(Area) CCI-65FP-045100 (H)	75.00 - 77.25	Auto	0.1330
L29	79	(Area) CCI-65FP-045100 (H)	75.00 - 77.25	Auto	0.1330
L29	80	(Area) CCI-65FP-045100 (H)	75.00 - 77.25	Auto	0.1330
L30	26	Bar #2	74.75 - 75.00	Auto	0.0000
L30	27	Bar #2	74.75 - 75.00	Auto	0.0000
L30	28	Bar #2	74.75 - 75.00	Auto	0.0000
L30	34	MP3-03 (1.1875in)	74.75 - 75.00	Auto	0.0005
L30	35	MP3-03 (1.1875in)	74.75 - 75.00	Auto	0.0005
L30	36	MP3-03 (1.1875in)	74.75 - 75.00	Auto	0.0005
L30	48	MP3-03 (1.1875in)	74.75 - 75.00	Auto	0.0005
L30	49	MP3-03 (1.1875in)	74.75 - 75.00	Auto	0.0005
L30	50	MP3-03 (1.1875in)	74.75 - 75.00	Auto	0.0005
L30	70	(Area) CCI-65FP-040075 (H)	74.75 - 75.00	Auto	0.0000
L30	71	(Area) CCI-65FP-040075 (H)	74.75 - 75.00	Auto	0.0000
L30	72	(Area) CCI-65FP-040075 (H)	74.75 - 75.00	Auto	0.0000
L30	78	(Area) CCI-65FP-045100 (H)	74.75 - 75.00	Auto	0.0982
L30	79	(Area) CCI-65FP-045100 (H)	74.75 - 75.00	Auto	0.0982
L30	80	(Area) CCI-65FP-045100 (H)	74.75 - 75.00	Auto	0.0982
L31	26	Bar #2	74.50 - 74.75	Auto	0.0014
L31	27	Bar #2	74.50 - 74.75	Auto	0.0014
L31	28	Bar #2	74.50 - 74.75	Auto	0.0014
L31	34	MP3-03 (1.1875in)	74.50 - 74.75	Auto	0.0469
L31	35	MP3-03 (1.1875in)	74.50 - 74.75	Auto	0.0469
L31	36	MP3-03 (1.1875in)	74.50 - 74.75	Auto	0.0469
L31	48	MP3-03 (1.1875in)	74.50 - 74.75	Auto	0.0469
L31	49	MP3-03 (1.1875in)	74.50 - 74.75	Auto	0.0469
L31	50	MP3-03 (1.1875in)	74.50 - 74.75	Auto	0.0469
L31	70	(Area) CCI-65FP-040075 (H)	74.50 - 74.75	Auto	0.0326
L31	71	(Area) CCI-65FP-040075 (H)	74.50 - 74.75	Auto	0.0326
L31	72	(Area) CCI-65FP-040075 (H)	74.50 - 74.75	Auto	0.0326
L31	78	(Area) CCI-65FP-045100 (H)	74.50 - 74.75	Auto	0.1401
L31	79	(Area) CCI-65FP-045100 (H)	74.50 - 74.75	Auto	0.1401
L31	80	(Area) CCI-65FP-045100 (H)	74.50 - 74.75	Auto	0.1401
L32	26	Bar #2	72.17 - 74.50	Auto	0.0000
L32	27	Bar #2	72.17 - 74.50	Auto	0.0000
L32	28	Bar #2	72.17 - 74.50	Auto	0.0000
L32	34	MP3-03 (1.1875in)	72.17 - 74.50	Auto	0.0296
L32	35	MP3-03 (1.1875in)	72.17 - 74.50	Auto	0.0296
L32	36	MP3-03 (1.1875in)	72.17 - 74.50	Auto	0.0296
L32	48	MP3-03 (1.1875in)	72.17 - 74.50	Auto	0.0296
L32	49	MP3-03 (1.1875in)	72.17 - 74.50	Auto	0.0296
L32	50	MP3-03 (1.1875in)	72.17 - 74.50	Auto	0.0296
L32	70	(Area) CCI-65FP-040075 (H)	72.17 - 74.50	Auto	0.0150
L32	71	(Area) CCI-65FP-040075 (H)	72.17 - 74.50	Auto	0.0150
L32	72	(Area) CCI-65FP-040075 (H)	72.17 - 74.50	Auto	0.0150
L32	78	(Area) CCI-65FP-045100 (H)	73.50 - 74.50	Auto	0.1300
L32	79	(Area) CCI-65FP-045100 (H)	73.50 - 74.50	Auto	0.1300
L32	80	(Area) CCI-65FP-045100 (H)	73.50 - 74.50	Auto	0.1300
L33	22	Bar #1	71.92 - 72.17	Auto	0.0719
L33	23	Bar #1	71.92 - 72.17	Auto	0.0719
L33	24	Bar #1	71.92 - 72.17	Auto	0.0719
L33	34	MP3-03 (1.1875in)	71.92 - 72.17	Auto	0.0285
L33	35	MP3-03 (1.1875in)	71.92 - 72.17	Auto	0.0285
L33	36	MP3-03 (1.1875in)	71.92 - 72.17	Auto	0.0285
L33	48	MP3-03 (1.1875in)	71.92 - 72.17	Auto	0.0285
L33	49	MP3-03 (1.1875in)	71.92 - 72.17	Auto	0.0285
L33	50	MP3-03 (1.1875in)	71.92 - 72.17	Auto	0.0285

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Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L33	70	(Area) CCI-65FP-040075 (H)	71.92 - 72.17	Auto	0.0139
L33	71	(Area) CCI-65FP-040075 (H)	71.92 - 72.17	Auto	0.0139
L33	72	(Area) CCI-65FP-040075 (H)	71.92 - 72.17	Auto	0.0139
L34	22	Bar #1	68.75 - 71.92	Auto	0.0465
L34	23	Bar #1	68.75 - 71.92	Auto	0.0465
L34	24	Bar #1	68.75 - 71.92	Auto	0.0465
L34	34	MP3-03 (1.1875in)	68.75 - 71.92	Auto	0.0046
L34	35	MP3-03 (1.1875in)	68.75 - 71.92	Auto	0.0046
L34	36	MP3-03 (1.1875in)	68.75 - 71.92	Auto	0.0046
L34	48	MP3-03 (1.1875in)	68.75 - 71.92	Auto	0.0046
L34	49	MP3-03 (1.1875in)	68.75 - 71.92	Auto	0.0046
L34	50	MP3-03 (1.1875in)	68.75 - 71.92	Auto	0.0046
L34	66	(Area) CCI-65FP-060100 (H)	68.75 - 71.25	Auto	0.3225
L34	67	(Area) CCI-65FP-060100 (H)	68.75 - 71.25	Auto	0.3225
L34	68	(Area) CCI-65FP-060100 (H)	68.75 - 71.25	Auto	0.3225
L34	70	(Area) CCI-65FP-040075 (H)	71.25 - 71.92	Auto	0.0002
L34	71	(Area) CCI-65FP-040075 (H)	71.25 - 71.92	Auto	0.0002
L34	72	(Area) CCI-65FP-040075 (H)	71.25 - 71.92	Auto	0.0002
L35	22	Bar #1	68.50 - 68.75	Auto	0.0831
L35	23	Bar #1	68.50 - 68.75	Auto	0.0831
L35	24	Bar #1	68.50 - 68.75	Auto	0.0831
L35	34	MP3-03 (1.1875in)	68.50 - 68.75	Auto	0.0402
L35	35	MP3-03 (1.1875in)	68.50 - 68.75	Auto	0.0402
L35	36	MP3-03 (1.1875in)	68.50 - 68.75	Auto	0.0402
L35	48	MP3-03 (1.1875in)	68.50 - 68.75	Auto	0.0402
L35	49	MP3-03 (1.1875in)	68.50 - 68.75	Auto	0.0402
L35	50	MP3-03 (1.1875in)	68.50 - 68.75	Auto	0.0402
L35	66	(Area) CCI-65FP-060100 (H)	68.50 - 68.75	Auto	0.3506
L35	67	(Area) CCI-65FP-060100 (H)	68.50 - 68.75	Auto	0.3506
L35	68	(Area) CCI-65FP-060100 (H)	68.50 - 68.75	Auto	0.3506
L36	22	Bar #1	63.50 - 68.50	Auto	0.0496
L36	23	Bar #1	63.50 - 68.50	Auto	0.0496
L36	24	Bar #1	63.50 - 68.50	Auto	0.0496
L36	34	MP3-03 (1.1875in)	63.50 - 68.50	Auto	0.0086
L36	35	MP3-03 (1.1875in)	63.50 - 68.50	Auto	0.0086
L36	36	MP3-03 (1.1875in)	63.50 - 68.50	Auto	0.0086
L36	48	MP3-03 (1.1875in)	63.50 - 68.50	Auto	0.0086
L36	49	MP3-03 (1.1875in)	63.50 - 68.50	Auto	0.0086
L36	50	MP3-03 (1.1875in)	63.50 - 68.50	Auto	0.0086
L36	66	(Area) CCI-65FP-060100 (H)	63.50 - 68.50	Auto	0.3268
L36	67	(Area) CCI-65FP-060100 (H)	63.50 - 68.50	Auto	0.3268
L36	68	(Area) CCI-65FP-060100 (H)	63.50 - 68.50	Auto	0.3268
L37	22	Bar #1	58.50 - 63.50	Auto	0.0034
L37	23	Bar #1	58.50 - 63.50	Auto	0.0034
L37	24	Bar #1	58.50 - 63.50	Auto	0.0034
L37	34	MP3-03 (1.1875in)	58.50 - 63.50	Auto	0.0000
L37	35	MP3-03 (1.1875in)	58.50 - 63.50	Auto	0.0000
L37	36	MP3-03 (1.1875in)	58.50 - 63.50	Auto	0.0000
L37	48	MP3-03 (1.1875in)	58.50 - 63.50	Auto	0.0000
L37	49	MP3-03 (1.1875in)	58.50 - 63.50	Auto	0.0000
L37	50	MP3-03 (1.1875in)	58.50 - 63.50	Auto	0.0000
L37	66	(Area) CCI-65FP-060100 (H)	58.50 - 63.50	Auto	0.2882
L37	67	(Area) CCI-65FP-060100 (H)	58.50 - 63.50	Auto	0.2882
L37	68	(Area) CCI-65FP-060100 (H)	58.50 - 63.50	Auto	0.2882
L38	22	Bar #1	53.50 - 58.50	Auto	0.0000
L38	23	Bar #1	53.50 - 58.50	Auto	0.0000
L38	24	Bar #1	53.50 - 58.50	Auto	0.0000
L38	34	MP3-03 (1.1875in)	53.50 - 58.50	Auto	0.0000
L38	35	MP3-03 (1.1875in)	53.50 - 58.50	Auto	0.0000
L38	36	MP3-03 (1.1875in)	53.50 - 58.50	Auto	0.0000
L38	48	MP3-03 (1.1875in)	53.50 - 58.50	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L38	49	MP3-03 (1.1875in)	53.50 - 58.50	Auto	0.0000
L38	50	MP3-03 (1.1875in)	53.50 - 58.50	Auto	0.0000
L38	66	(Area) CCI-65FP-060100 (H)	53.50 - 58.50	Auto	0.2497
L38	67	(Area) CCI-65FP-060100 (H)	53.50 - 58.50	Auto	0.2497
L38	68	(Area) CCI-65FP-060100 (H)	53.50 - 58.50	Auto	0.2497
L39	22	Bar #1	48.50 - 53.50	Auto	0.0000
L39	23	Bar #1	48.50 - 53.50	Auto	0.0000
L39	24	Bar #1	48.50 - 53.50	Auto	0.0000
L39	34	MP3-03 (1.1875in)	48.50 - 53.50	Auto	0.0000
L39	35	MP3-03 (1.1875in)	48.50 - 53.50	Auto	0.0000
L39	36	MP3-03 (1.1875in)	48.50 - 53.50	Auto	0.0000
L39	48	MP3-03 (1.1875in)	48.50 - 53.50	Auto	0.0000
L39	49	MP3-03 (1.1875in)	48.50 - 53.50	Auto	0.0000
L39	50	MP3-03 (1.1875in)	48.50 - 53.50	Auto	0.0000
L39	66	(Area) CCI-65FP-060100 (H)	48.50 - 53.50	Auto	0.2111
L39	67	(Area) CCI-65FP-060100 (H)	48.50 - 53.50	Auto	0.2111
L39	68	(Area) CCI-65FP-060100 (H)	48.50 - 53.50	Auto	0.2111
L40	22	Bar #1	42.42 - 48.50	Auto	0.0000
L40	23	Bar #1	42.42 - 48.50	Auto	0.0000
L40	24	Bar #1	42.42 - 48.50	Auto	0.0000
L40	34	MP3-03 (1.1875in)	46.00 - 48.50	Auto	0.0000
L40	35	MP3-03 (1.1875in)	46.00 - 48.50	Auto	0.0000
L40	36	MP3-03 (1.1875in)	46.00 - 48.50	Auto	0.0000
L40	40	MP3-05 (1.1875in)	42.41 - 46.25	Auto	0.0650
L40	45	MP3-05 (1.1875in)	42.41 - 46.25	Auto	0.0650
L40	46	MP3-05 (1.1875in)	42.41 - 46.25	Auto	0.0650
L40	48	MP3-03 (1.1875in)	46.25 - 48.50	Auto	0.0000
L40	49	MP3-03 (1.1875in)	46.25 - 48.50	Auto	0.0000
L40	50	MP3-03 (1.1875in)	46.25 - 48.50	Auto	0.0000
L40	66	(Area) CCI-65FP-060100 (H)	42.41 - 48.50	Auto	0.1764
L40	67	(Area) CCI-65FP-060100 (H)	42.41 - 48.50	Auto	0.1764
L40	68	(Area) CCI-65FP-060100 (H)	42.41 - 48.50	Auto	0.1764
L41	40	MP3-05 (1.1875in)	41.41 - 42.41	Auto	0.0315
L41	45	MP3-05 (1.1875in)	41.41 - 42.41	Auto	0.0315
L41	46	MP3-05 (1.1875in)	41.41 - 42.41	Auto	0.0315
L41	66	(Area) CCI-65FP-060100 (H)	41.41 - 42.41	Auto	0.1396
L41	67	(Area) CCI-65FP-060100 (H)	41.41 - 42.41	Auto	0.1396
L41	68	(Area) CCI-65FP-060100 (H)	41.41 - 42.41	Auto	0.1396
L42	40	MP3-05 (1.1875in)	36.41 - 41.41	Auto	0.0081
L42	45	MP3-05 (1.1875in)	36.41 - 41.41	Auto	0.0081
L42	46	MP3-05 (1.1875in)	36.41 - 41.41	Auto	0.0081
L42	66	(Area) CCI-65FP-060100 (H)	36.41 - 41.41	Auto	0.1172
L42	67	(Area) CCI-65FP-060100 (H)	36.41 - 41.41	Auto	0.1172
L42	68	(Area) CCI-65FP-060100 (H)	36.41 - 41.41	Auto	0.1172
L43	40	MP3-05 (1.1875in)	32.75 - 36.41	Auto	0.0000
L43	45	MP3-05 (1.1875in)	32.75 - 36.41	Auto	0.0000
L43	46	MP3-05 (1.1875in)	32.75 - 36.41	Auto	0.0000
L43	60	(Area) CCI-65FP-065125 (H)	32.75 - 36.25	Auto	0.1564
L43	62	(Area) CCI-65FP-065125 (Mod) (H)	32.75 - 36.25	Auto	0.0046
L43	64	(Area) CCI-65FP-065125 (H)	32.75 - 36.25	Auto	0.1564
L43	66	(Area) CCI-65FP-060100 (H)	36.25 - 36.41	Auto	0.0975
L43	67	(Area) CCI-65FP-060100 (H)	36.25 - 36.41	Auto	0.0975
L43	68	(Area) CCI-65FP-060100 (H)	36.25 - 36.41	Auto	0.0975
L44	40	MP3-05 (1.1875in)	32.50 - 32.75	Auto	0.0000
L44	45	MP3-05 (1.1875in)	32.50 - 32.75	Auto	0.0000
L44	46	MP3-05 (1.1875in)	32.50 - 32.75	Auto	0.0000
L44	60	(Area) CCI-65FP-065125 (H)	32.50 - 32.75	Auto	0.1591
L44	62	(Area) CCI-65FP-065125 (Mod) (H)	32.50 - 32.75	Auto	0.0062
L44	64	(Area) CCI-65FP-065125 (H)	32.50 - 32.75	Auto	0.1591

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<b>Client</b>	Crown Castle	<b>Designed by</b>	djbrevig

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L45	40	MP3-05 (1.1875in)	31.25 - 32.50	Auto	0.0000
L45	45	MP3-05 (1.1875in)	31.25 - 32.50	Auto	0.0000
L45	46	MP3-05 (1.1875in)	31.25 - 32.50	Auto	0.0000
L45	60	(Area) CCI-65FP-065125 (H)	31.25 - 32.50	Auto	0.1548
L45	62	(Area) CCI-65FP-065125 (Mod) (H)	31.25 - 32.50	Auto	0.0017
L45	64	(Area) CCI-65FP-065125 (H)	31.25 - 32.50	Auto	0.1548
L46	40	MP3-05 (1.1875in)	31.00 - 31.25	Auto	0.0000
L46	42	MP3-05 (1.1875in)	31.00 - 31.25	Auto	0.0000
L46	43	MP3-05 (1.1875in)	31.00 - 31.25	Auto	0.0000
L46	60	(Area) CCI-65FP-065125 (H)	31.00 - 31.25	Auto	0.1471
L46	62	(Area) CCI-65FP-065125 (Mod) (H)	31.00 - 31.25	Auto	0.0000
L46	64	(Area) CCI-65FP-065125 (H)	31.00 - 31.25	Auto	0.1471
L47	40	MP3-05 (1.1875in)	26.00 - 31.00	Auto	0.0000
L47	42	MP3-05 (1.1875in)	26.00 - 31.00	Auto	0.0000
L47	43	MP3-05 (1.1875in)	26.00 - 31.00	Auto	0.0000
L47	60	(Area) CCI-65FP-065125 (H)	26.00 - 31.00	Auto	0.1285
L47	62	(Area) CCI-65FP-065125 (Mod) (H)	26.00 - 31.00	Auto	0.0000
L47	64	(Area) CCI-65FP-065125 (H)	26.00 - 31.00	Auto	0.1285
L48	38	MP3-05 (1.1875in)	21.00 - 21.25	Auto	0.0000
L48	40	MP3-05 (1.1875in)	21.00 - 26.00	Auto	0.0000
L48	42	MP3-05 (1.1875in)	21.00 - 26.00	Auto	0.0000
L48	43	MP3-05 (1.1875in)	21.00 - 26.00	Auto	0.0000
L48	60	(Area) CCI-65FP-065125 (H)	21.00 - 26.00	Auto	0.0997
L48	62	(Area) CCI-65FP-065125 (Mod) (H)	21.00 - 26.00	Auto	0.0000
L48	64	(Area) CCI-65FP-065125 (H)	21.00 - 26.00	Auto	0.0997
L49	38	MP3-05 (1.1875in)	18.75 - 21.00	Auto	0.0000
L49	40	MP3-05 (1.1875in)	18.75 - 21.00	Auto	0.0000
L49	42	MP3-05 (1.1875in)	18.75 - 21.00	Auto	0.0000
L49	43	MP3-05 (1.1875in)	18.75 - 21.00	Auto	0.0000
L49	60	(Area) CCI-65FP-065125 (H)	18.75 - 21.00	Auto	0.0755
L49	62	(Area) CCI-65FP-065125 (Mod) (H)	18.75 - 21.00	Auto	0.0000
L49	64	(Area) CCI-65FP-065125 (H)	18.75 - 21.00	Auto	0.0755
L50	38	MP3-05 (1.1875in)	18.50 - 18.75	Auto	0.0000
L50	40	MP3-05 (1.1875in)	18.50 - 18.75	Auto	0.0000
L50	42	MP3-05 (1.1875in)	18.50 - 18.75	Auto	0.0000
L50	43	MP3-05 (1.1875in)	18.50 - 18.75	Auto	0.0000
L50	60	(Area) CCI-65FP-065125 (H)	18.50 - 18.75	Auto	0.0649
L50	62	(Area) CCI-65FP-065125 (Mod) (H)	18.50 - 18.75	Auto	0.0000
L50	64	(Area) CCI-65FP-065125 (H)	18.50 - 18.75	Auto	0.0649
L51	38	MP3-05 (1.1875in)	15.00 - 18.50	Auto	0.0000
L51	40	MP3-05 (1.1875in)	16.25 - 18.50	Auto	0.0000
L51	42	MP3-05 (1.1875in)	15.00 - 18.50	Auto	0.0000
L51	43	MP3-05 (1.1875in)	15.00 - 18.50	Auto	0.0000
L51	60	(Area) CCI-65FP-065125 (H)	15.00 - 18.50	Auto	0.0507
L51	62	(Area) CCI-65FP-065125 (Mod) (H)	15.00 - 18.50	Auto	0.0000
L51	64	(Area) CCI-65FP-065125 (H)	15.00 - 18.50	Auto	0.0507
L52	38	MP3-05 (1.1875in)	14.75 - 15.00	Auto	0.0000
L52	42	MP3-05 (1.1875in)	14.75 - 15.00	Auto	0.0000
L52	43	MP3-05 (1.1875in)	14.75 - 15.00	Auto	0.0000
L52	60	(Area) CCI-65FP-065125 (H)	14.75 - 15.00	Auto	0.0128
L52	62	(Area) CCI-65FP-065125 (Mod) (H)	14.75 - 15.00	Auto	0.0000
L52	64	(Area) CCI-65FP-065125 (H)	14.75 - 15.00	Auto	0.0128
L53	38	MP3-05 (1.1875in)	9.75 - 14.75	Auto	0.0000

<p><b>tnxTower</b></p> <p><b>Tower Engineering Professionals, Inc.</b>  326 Tryon Road  Raleigh, NC 27603  Phone: (919) 661 6351  FAX: (919) 661 6350</p>	<b>Job</b> Oxford / Fritz Property (BU 876362)	<b>Page</b> 40 of 65
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Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L53	42	MP3-05 (1.1875in)	9.75 - 14.75	Auto	0.0000
L53	43	MP3-05 (1.1875in)	9.75 - 14.75	Auto	0.0000
L53	60	(Area) CCI-65FP-065125 (H)	9.75 - 14.75	Auto	0.0019
L53	62	(Area) CCI-65FP-065125 (Mod) (H)	9.75 - 14.75	Auto	0.0000
L53	64	(Area) CCI-65FP-065125 (H)	11.50 - 14.75	Auto	0.0029
L54	38	MP3-05 (1.1875in)	4.75 - 9.75	Auto	0.0000
L54	42	MP3-05 (1.1875in)	4.75 - 9.75	Auto	0.0000
L54	43	MP3-05 (1.1875in)	4.75 - 9.75	Auto	0.0000
L54	60	(Area) CCI-65FP-065125 (H)	4.75 - 9.75	Auto	0.0000
L54	62	(Area) CCI-65FP-065125 (Mod) (H)	4.75 - 9.75	Auto	0.0000
L55	38	MP3-05 (1.1875in)	1.25 - 4.75	Auto	0.0000
L55	42	MP3-05 (1.1875in)	1.25 - 4.75	Auto	0.0000
L55	43	MP3-05 (1.1875in)	1.25 - 4.75	Auto	0.0000
L55	60	(Area) CCI-65FP-065125 (H)	1.25 - 4.75	Auto	0.0000
L55	62	(Area) CCI-65FP-065125 (Mod) (H)	1.25 - 4.75	Auto	0.0000
L56	38	MP3-05 (1.1875in)	1.00 - 1.25	Auto	0.0000
L56	42	MP3-05 (1.1875in)	1.00 - 1.25	Auto	0.0000
L56	43	MP3-05 (1.1875in)	1.00 - 1.25	Auto	0.0000
L56	60	(Area) CCI-65FP-065125 (H)	1.00 - 1.25	Auto	0.0000
L56	62	(Area) CCI-65FP-065125 (Mod) (H)	1.00 - 1.25	Auto	0.0000
L57	38	MP3-05 (1.1875in)	0.00 - 1.00	Auto	0.0000
L57	42	MP3-05 (1.1875in)	0.00 - 1.00	Auto	0.0000
L57	43	MP3-05 (1.1875in)	0.00 - 1.00	Auto	0.0000
L57	60	(Area) CCI-65FP-065125 (H)	0.00 - 1.00	Auto	0.0000
L57	62	(Area) CCI-65FP-065125 (Mod) (H)	0.00 - 1.00	Auto	0.0000

### Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	Placement	C <sub>AA</sub> Front	C <sub>AA</sub> Side	Weight	
			ft ft ft	°	ft	ft <sup>2</sup>	ft <sup>2</sup>	K	
***									
VV-65B-R1_TMO w/ Mount Pipe	A	From Centroid-Le g	4.0000 0.00 0.00	0.00	152.0000	No Ice 1/2" Ice 1" Ice	8.1518 8.7016 9.2172	5.4239 6.5557 7.4121	0.07 0.13 0.20
VV-65B-R1_TMO w/ Mount Pipe	B	From Centroid-Le g	4.0000 0.00 0.00	0.00	152.0000	No Ice 1/2" Ice 1" Ice	8.1518 8.7016 9.2172	5.4239 6.5557 7.4121	0.07 0.13 0.20
VV-65B-R1_TMO w/ Mount Pipe	C	From Centroid-Le g	4.0000 0.00 0.00	0.00	152.0000	No Ice 1/2" Ice 1" Ice	8.1518 8.7016 9.2172	5.4239 6.5557 7.4121	0.07 0.13 0.20
AIR 6419 B41_TMO w/ Mount Pipe	A	From Centroid-Le g	4.0000 0.00 0.00	0.00	152.0000	No Ice 1/2" Ice 1" Ice	6.5800 7.0600 7.5700	3.5000 3.9000 4.3200	0.11 0.16 0.22
AIR 6419 B41_TMO w/	B	From	4.0000	0.00	152.0000	No Ice	6.5800	3.5000	0.11

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	<b>Client</b>	Crown Castle	<b>Designed by</b>	djbrevig

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	CAAA Front	CAAA Side	Weight
			Horz	Vert					
			ft	ft	°	ft	ft <sup>2</sup>	ft <sup>2</sup>	K
Mount Pipe		Centroid-Le	0.00			1/2" Ice	7.0600	3.9000	0.16
		g	0.00			1" Ice	7.5700	4.3200	0.22
AIR 6419 B41_TMO w/ Mount Pipe	C	From	4.0000		0.00	No Ice	6.5800	3.5000	0.11
		Centroid-Le	0.00			1/2" Ice	7.0600	3.9000	0.16
		g	0.00			1" Ice	7.5700	4.3200	0.22
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	A	From	4.0000		0.00	No Ice	14.6900	6.8700	0.18
		Centroid-Le	0.00			1/2" Ice	15.4600	7.5500	0.31
		g	0.00			1" Ice	16.2300	8.2500	0.45
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	B	From	4.0000		0.00	No Ice	14.6900	6.8700	0.18
		Centroid-Le	0.00			1/2" Ice	15.4600	7.5500	0.31
		g	0.00			1" Ice	16.2300	8.2500	0.45
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	C	From	4.0000		0.00	No Ice	14.6900	6.8700	0.18
		Centroid-Le	0.00			1/2" Ice	15.4600	7.5500	0.31
		g	0.00			1" Ice	16.2300	8.2500	0.45
RADIO 4460 B2/B25 B66_TMO	A	From	4.0000		0.00	No Ice	2.1392	1.6858	0.11
		Centroid-Le	0.00			1/2" Ice	2.3212	1.8501	0.13
		g	0.00			1" Ice	2.5106	2.0218	0.16
RADIO 4460 B2/B25 B66_TMO	B	From	4.0000		0.00	No Ice	2.1392	1.6858	0.11
		Centroid-Le	0.00			1/2" Ice	2.3212	1.8501	0.13
		g	0.00			1" Ice	2.5106	2.0218	0.16
RADIO 4460 B2/B25 B66_TMO	C	From	4.0000		0.00	No Ice	2.1392	1.6858	0.11
		Centroid-Le	0.00			1/2" Ice	2.3212	1.8501	0.13
		g	0.00			1" Ice	2.5106	2.0218	0.16
Radio 4480_TMOV2	A	From	4.0000		0.00	No Ice	2.8783	1.3971	0.08
		Centroid-Le	0.00			1/2" Ice	3.0915	1.5583	0.10
		g	0.00			1" Ice	3.3120	1.7266	0.13
Radio 4480_TMOV2	B	From	4.0000		0.00	No Ice	2.8783	1.3971	0.08
		Centroid-Le	0.00			1/2" Ice	3.0915	1.5583	0.10
		g	0.00			1" Ice	3.3120	1.7266	0.13
Radio 4480_TMOV2	C	From	4.0000		0.00	No Ice	2.8783	1.3971	0.08
		Centroid-Le	0.00			1/2" Ice	3.0915	1.5583	0.10
		g	0.00			1" Ice	3.3120	1.7266	0.13
2.4" Dia x 4-ft Mount Pipe	B	From	4.0000		0.00	No Ice	0.8711	0.8711	0.01
		Centroid-Le	0.00			1/2" Ice	1.1161	1.1161	0.02
		g	0.00			1" Ice	1.3704	1.3704	0.03
8' Ladder	C	From	2.0000		0.00	No Ice	1.5296	5.3333	0.10
		Centroid-Fa	0.00			1/2" Ice	4.3619	8.0833	0.11
		ce	-2.00			1" Ice	7.1941	10.8333	0.13
Platform Mount [LP 602-1]	C	None			0.00	No Ice	31.0700	31.0700	1.34
						1/2" Ice	34.8200	34.8200	1.97
						1" Ice	38.4800	38.4800	2.67
***									
***									
7770.00 w/ Mount Pipe	A	From	4.0000		0.00	No Ice	5.7460	4.2543	0.06
		Centroid-Le	0.00			1/2" Ice	6.1791	5.0137	0.10
		g	2.00			1" Ice	6.6067	5.7109	0.16
7770.00 w/ Mount Pipe	B	From	4.0000		0.00	No Ice	5.7460	4.2543	0.06
		Centroid-Le	0.00			1/2" Ice	6.1791	5.0137	0.10
		g	2.00			1" Ice	6.6067	5.7109	0.16
7770.00 w/ Mount Pipe	C	From	4.0000		0.00	No Ice	5.7460	4.2543	0.06
		Centroid-Le	0.00			1/2" Ice	6.1791	5.0137	0.10
		g	2.00			1" Ice	6.6067	5.7109	0.16
(2) SBNH-1D6565C w/ Mount Pipe	A	From	4.0000		0.00	No Ice	5.5600	4.4700	0.08
		Centroid-Le	0.00			1/2" Ice	6.0700	4.9700	0.17
		g	2.00			1" Ice	6.5900	5.4700	0.26
(2) AM-X-CD-16-65-00T-RET	B	From	4.0000		0.00	No Ice	4.6300	3.2700	0.07
		Centroid-Le	0.00			1/2" Ice	5.0600	3.6900	0.13

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	<b>Client</b>	Crown Castle	<b>Designed by</b>	djbrevig

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C <sub>AA</sub> Front ft <sup>2</sup>	C <sub>AA</sub> Side ft <sup>2</sup>	Weight K
w/ Mount Pipe		g	2.00			1" Ice 5.5100	4.1200	0.20
(2) SBNH-1D6565C w/ Mount Pipe	C	From Centroid-Le	4.0000 0.00	0.00	137.0000	No Ice 5.5600 1/2" Ice 6.0700	4.4700 4.9700	0.08 0.17
		g	2.00			1" Ice 6.5900	5.4700	0.26
7020.00	A	From Centroid-Le	4.0000 0.00	0.00	137.0000	No Ice 0.1021 1/2" Ice 0.1469	0.1750 0.2393	0.00 0.01
		g	2.00			1" Ice 0.1991	0.3109	0.01
7020.00	B	From Centroid-Le	4.0000 0.00	0.00	137.0000	No Ice 0.1021 1/2" Ice 0.1469	0.1750 0.2393	0.00 0.01
		g	2.00			1" Ice 0.1991	0.3109	0.01
7020.00	C	From Centroid-Le	4.0000 0.00	0.00	137.0000	No Ice 0.1021 1/2" Ice 0.1469	0.1750 0.2393	0.00 0.01
		g	2.00			1" Ice 0.1991	0.3109	0.01
(2) LGP21901	A	From Centroid-Le	4.0000 0.00	0.00	137.0000	No Ice 0.2310 1/2" Ice 0.2941	0.1575 0.2129	0.01 0.01
		g	2.00			1" Ice 0.3647	0.2756	0.01
(2) LGP21901	B	From Centroid-Le	4.0000 0.00	0.00	137.0000	No Ice 0.2310 1/2" Ice 0.2941	0.1575 0.2129	0.01 0.01
		g	2.00			1" Ice 0.3647	0.2756	0.01
(2) LGP21901	C	From Centroid-Le	4.0000 0.00	0.00	137.0000	No Ice 0.2310 1/2" Ice 0.2941	0.1575 0.2129	0.01 0.01
		g	2.00			1" Ice 0.3647	0.2756	0.01
(2) DTMABP7819VG12A	A	From Centroid-Le	4.0000 0.00	0.00	137.0000	No Ice 0.9762 1/2" Ice 1.1002	0.3387 0.4192	0.02 0.03
		g	2.00			1" Ice 1.2316	0.5098	0.04
(2) DTMABP7819VG12A	B	From Centroid-Le	4.0000 0.00	0.00	137.0000	No Ice 0.9762 1/2" Ice 1.1002	0.3387 0.4192	0.02 0.03
		g	2.00			1" Ice 1.2316	0.5098	0.04
(2) DTMABP7819VG12A	C	From Centroid-Le	4.0000 0.00	0.00	137.0000	No Ice 0.9762 1/2" Ice 1.1002	0.3387 0.4192	0.02 0.03
		g	2.00			1" Ice 1.2316	0.5098	0.04
(2) DD1900 FULL BAND W/850 BY-PASS MASTHEAD	A	From Centroid-Le	4.0000 0.00	0.00	137.0000	No Ice 1.1018 1/2" Ice 1.2332	0.2900 0.3714	0.02 0.02
		g	2.00			1" Ice 1.3721	0.4598	0.03
(2) DD1900 FULL BAND W/850 BY-PASS MASTHEAD	B	From Centroid-Le	4.0000 0.00	0.00	137.0000	No Ice 1.1018 1/2" Ice 1.2332	0.2900 0.3714	0.02 0.02
		g	2.00			1" Ice 1.3721	0.4598	0.03
(2) DD1900 FULL BAND W/850 BY-PASS MASTHEAD	C	From Centroid-Le	4.0000 0.00	0.00	137.0000	No Ice 1.1018 1/2" Ice 1.2332	0.2900 0.3714	0.02 0.02
		g	2.00			1" Ice 1.3721	0.4598	0.03
DC6-48-60-18-8F	A	From Centroid-Le	4.0000 0.00	0.00	137.0000	No Ice 1.2117 1/2" Ice 1.8924	1.2117 1.8924	0.03 0.05
		g	2.00			1" Ice 2.1051	2.1051	0.08
2.4" Dia. x 6-ft	A	From Centroid-Le	4.0000 0.00	0.00	137.0000	No Ice 1.4250 1/2" Ice 1.9250	1.4250 1.9250	0.02 0.03
		g	0.00			1" Ice 2.2939	2.2939	0.05
2.4" Dia. x 6-ft	B	From Centroid-Le	4.0000 0.00	0.00	137.0000	No Ice 1.4250 1/2" Ice 1.9250	1.4250 1.9250	0.02 0.03
		g	0.00			1" Ice 2.2939	2.2939	0.05
2.4" Dia. x 6-ft	C	From Centroid-Le	4.0000 0.00	0.00	137.0000	No Ice 1.4250 1/2" Ice 1.9250	1.4250 1.9250	0.02 0.03
		g	0.00			1" Ice 2.2939	2.2939	0.05
Platform Mount [LP 714-1]	C	None		0.00	137.0000	No Ice 37.5100 1/2" Ice 41.7000 1" Ice 45.8900	37.5100 41.7000 45.8900	1.60 2.50 3.46
***								
(2) RRUS 11 B12	A	From Leg	1.0000	0.00	136.0000	No Ice 2.7908	1.1923	0.05



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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C <sub>AA</sub> Front	C <sub>AA</sub> Side	Weight
			Horz	Vert					
			ft	ft	°	ft	ft <sup>2</sup>	ft <sup>2</sup>	K
			0.00			1/2" Ice	2.9984	1.3395	0.07
			0.00			1" Ice	3.2134	1.4957	0.10
(2) RRUS 11 B12	B	From Leg	1.0000		0.00	No Ice	2.7908	1.1923	0.05
			0.00			1/2" Ice	2.9984	1.3395	0.07
			0.00			1" Ice	3.2134	1.4957	0.10
(2) RRUS 11 B12	C	From Leg	1.0000		0.00	No Ice	2.7908	1.1923	0.05
			0.00			1/2" Ice	2.9984	1.3395	0.07
			0.00			1" Ice	3.2134	1.4957	0.10
DC6-48-60-18-8F	C	From Leg	1.0000		0.00	No Ice	1.2117	1.2117	0.03
			0.00			1/2" Ice	1.8924	1.8924	0.05
			0.00			1" Ice	2.1051	2.1051	0.08
(2) Pipe Mount [PM 601-3]	C	None			0.00	No Ice	3.1700	3.1700	0.20
						1/2" Ice	3.7900	3.7900	0.23
						1" Ice	4.4200	4.4200	0.28
***									
(2) APL866513-42T0 w/ Mount Pipe	A	From Centroid-Le	4.0000	0.00	127.0000	No Ice	3.9600	4.2500	0.03
		g	0.00			1/2" Ice	4.4400	4.7400	0.07
			2.00			1" Ice	4.9300	5.2500	0.12
(2) APL866513-42T0 w/ Mount Pipe	B	From Centroid-Le	4.0000	0.00	127.0000	No Ice	3.9600	4.2500	0.03
		g	0.00			1/2" Ice	4.4400	4.7400	0.07
			2.00			1" Ice	4.9300	5.2500	0.12
(2) APL866513-42T0 w/ Mount Pipe	C	From Centroid-Le	4.0000	0.00	127.0000	No Ice	3.9600	4.2500	0.03
		g	0.00			1/2" Ice	4.4400	4.7400	0.07
			2.00			1" Ice	4.9300	5.2500	0.12
BXA-70040/4CF w/ Mount Pipe	A	From Centroid-Le	4.0000	0.00	127.0000	No Ice	8.1500	3.6200	0.04
		g	0.00			1/2" Ice	8.6600	4.0300	0.11
			2.00			1" Ice	9.1800	4.4600	0.18
BXA-70063-4CF-EDIN-X w/ Mount Pipe	B	From Centroid-Le	4.0000	0.00	127.0000	No Ice	4.8400	3.5400	0.04
		g	0.00			1/2" Ice	5.3500	4.0300	0.08
			2.00			1" Ice	5.8800	4.5300	0.12
BXA-70063-4CF-EDIN-X w/ Mount Pipe	C	From Centroid-Le	4.0000	0.00	127.0000	No Ice	4.8400	3.5400	0.04
		g	0.00			1/2" Ice	5.3500	4.0300	0.08
			2.00			1" Ice	5.8800	4.5300	0.12
(2) HBXX-6517DS-A2M w/ Mount Pipe	A	From Centroid-Le	4.0000	0.00	127.0000	No Ice	7.9700	5.9900	0.08
		g	0.00			1/2" Ice	8.7300	6.7200	0.14
			2.00			1" Ice	9.5000	7.4700	0.22
(2) HBXX-6517DS-A2M w/ Mount Pipe	B	From Centroid-Le	4.0000	0.00	127.0000	No Ice	7.9700	5.9900	0.08
		g	0.00			1/2" Ice	8.7300	6.7200	0.14
			2.00			1" Ice	9.5000	7.4700	0.22
(2) HBXX-6517DS-A2M w/ Mount Pipe	C	From Centroid-Le	4.0000	0.00	127.0000	No Ice	7.9700	5.9900	0.08
		g	0.00			1/2" Ice	8.7300	6.7200	0.14
			2.00			1" Ice	9.5000	7.4700	0.22
GPS_A	B	From Centroid-Le	4.0000	0.00	127.0000	No Ice	0.1193	0.1193	0.00
		g	0.00			1/2" Ice	0.2077	0.2077	0.00
			2.00			1" Ice	0.2763	0.2763	0.01
(2) FD9R6004/2C-3L	A	From Centroid-Le	4.0000	0.00	127.0000	No Ice	0.3142	0.0762	0.00
		g	0.00			1/2" Ice	0.3862	0.1189	0.01
			2.00			1" Ice	0.4656	0.1685	0.01
(2) FD9R6004/2C-3L	B	From Centroid-Le	4.0000	0.00	127.0000	No Ice	0.3142	0.0762	0.00
		g	0.00			1/2" Ice	0.3862	0.1189	0.01
			2.00			1" Ice	0.4656	0.1685	0.01
(2) FD9R6004/2C-3L	C	From Centroid-Le	4.0000	0.00	127.0000	No Ice	0.3142	0.0762	0.00
		g	0.00			1/2" Ice	0.3862	0.1189	0.01
			2.00			1" Ice	0.4656	0.1685	0.01
DB-T1-6Z-8AB-0Z	A	From Centroid-Le	4.0000	0.00	127.0000	No Ice	4.8000	2.0000	0.04
		g	0.00			1/2" Ice	5.0704	2.1926	0.08
			2.00			1" Ice	5.3481	2.3926	0.12

<b>tnxTower</b>  <b>Tower Engineering Professionals, Inc.</b> 326 Tryon Road Raleigh, NC 27603 Phone: (919) 661 6351 FAX: (919) 661 6350	<b>Job</b>	Oxford / Fritz Property (BU 876362)	<b>Page</b>	44 of 65
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	<b>Client</b>	Crown Castle	<b>Designed by</b>	djbrevig

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	CAAA Front	CAAA Side	Weight	
			Horz	Vert						
			ft	ft	°	ft	ft <sup>2</sup>	ft <sup>2</sup>	K	
RRH2X60-PCS	A	From	4.0000	0.00	0.00	127.0000	No Ice	2.2000	1.7233	0.06
		Centroid-Le	0.00	0.00			1/2" Ice	2.3926	1.9015	0.08
		g	2.00	0.00			1" Ice	2.5926	2.0870	0.10
RRH2X60-PCS	B	From	4.0000	0.00	0.00	127.0000	No Ice	2.2000	1.7233	0.06
		Centroid-Le	0.00	0.00			1/2" Ice	2.3926	1.9015	0.08
		g	2.00	0.00			1" Ice	2.5926	2.0870	0.10
RRH2X60-PCS	C	From	4.0000	0.00	0.00	127.0000	No Ice	2.2000	1.7233	0.06
		Centroid-Le	0.00	0.00			1/2" Ice	2.3926	1.9015	0.08
		g	2.00	0.00			1" Ice	2.5926	2.0870	0.10
RRH2X60-AWS	A	From	4.0000	0.00	0.00	127.0000	No Ice	3.5002	1.8157	0.06
		Centroid-Le	0.00	0.00			1/2" Ice	3.7609	2.0519	0.08
		g	2.00	0.00			1" Ice	4.0285	2.2894	0.11
RRH2X60-AWS	B	From	4.0000	0.00	0.00	127.0000	No Ice	3.5002	1.8157	0.06
		Centroid-Le	0.00	0.00			1/2" Ice	3.7609	2.0519	0.08
		g	2.00	0.00			1" Ice	4.0285	2.2894	0.11
RRH2X60-AWS	C	From	4.0000	0.00	0.00	127.0000	No Ice	3.5002	1.8157	0.06
		Centroid-Le	0.00	0.00			1/2" Ice	3.7609	2.0519	0.08
		g	2.00	0.00			1" Ice	4.0285	2.2894	0.11
2.4" Dia. x 6-ft	A	From	4.0000	0.00	0.00	127.0000	No Ice	1.4250	1.4250	0.02
		Centroid-Le	0.00	0.00			1/2" Ice	1.9250	1.9250	0.03
		g	0.00	0.00			1" Ice	2.2939	2.2939	0.05
2.4" Dia. x 6-ft	B	From	4.0000	0.00	0.00	127.0000	No Ice	1.4250	1.4250	0.02
		Centroid-Le	0.00	0.00			1/2" Ice	1.9250	1.9250	0.03
		g	0.00	0.00			1" Ice	2.2939	2.2939	0.05
2.4" Dia. x 6-ft	C	From	4.0000	0.00	0.00	127.0000	No Ice	1.4250	1.4250	0.02
		Centroid-Le	0.00	0.00			1/2" Ice	1.9250	1.9250	0.03
		g	0.00	0.00			1" Ice	2.2939	2.2939	0.05
Platform Mount [LP 714-1]	C	None			0.00	127.0000	No Ice	37.5100	37.5100	1.60
							1/2" Ice	41.7000	41.7000	2.50
							1" Ice	45.8900	45.8900	3.46
***										
APXV18-206517S-C-A20	A	From	4.0000	0.00	0.00	117.0000	No Ice	3.8300	1.8100	0.03
		Centroid-Le	0.00	0.00			1/2" Ice	4.4600	2.4100	0.05
		g	0.00	0.00			1" Ice	5.1100	3.0300	0.09
APXV18-206517S-C-A20	B	From	4.0000	0.00	0.00	117.0000	No Ice	3.8300	1.8100	0.03
		Centroid-Le	0.00	0.00			1/2" Ice	4.4600	2.4100	0.05
		g	0.00	0.00			1" Ice	5.1100	3.0300	0.09
APXV18-206517S-C-A20	C	From	4.0000	0.00	0.00	117.0000	No Ice	3.8300	1.8100	0.03
		Centroid-Le	0.00	0.00			1/2" Ice	4.4600	2.4100	0.05
		g	0.00	0.00			1" Ice	5.1100	3.0300	0.09
APXVAALL24_43-U-NA20	A	From	4.0000	0.00	0.00	117.0000	No Ice	14.6700	5.3200	0.15
		Centroid-Le	0.00	0.00			1/2" Ice	15.4300	5.9900	0.26
		g	0.00	0.00			1" Ice	16.2100	6.6800	0.38
APXVAALL24_43-U-NA20	B	From	4.0000	0.00	0.00	117.0000	No Ice	14.6700	5.3200	0.15
		Centroid-Le	0.00	0.00			1/2" Ice	15.4300	5.9900	0.26
		g	0.00	0.00			1" Ice	16.2100	6.6800	0.38
APXVAALL24_43-U-NA20	C	From	4.0000	0.00	0.00	117.0000	No Ice	14.6700	5.3200	0.15
		Centroid-Le	0.00	0.00			1/2" Ice	15.4300	5.9900	0.26
		g	0.00	0.00			1" Ice	16.2100	6.6800	0.38
RADIO 4449 B12/B71	A	From	4.0000	0.00	0.00	117.0000	No Ice	1.6433	1.1524	0.08
		Centroid-Le	0.00	0.00			1/2" Ice	1.8033	1.2905	0.09
		g	0.00	0.00			1" Ice	1.9707	1.4361	0.11
RADIO 4449 B12/B71	B	From	4.0000	0.00	0.00	117.0000	No Ice	1.6433	1.1524	0.08
		Centroid-Le	0.00	0.00			1/2" Ice	1.8033	1.2905	0.09
		g	0.00	0.00			1" Ice	1.9707	1.4361	0.11
RADIO 4449 B12/B71	C	From	4.0000	0.00	0.00	117.0000	No Ice	1.6433	1.1524	0.08
		Centroid-Le	0.00	0.00			1/2" Ice	1.8033	1.2905	0.09

<b>tnxTower</b>  <b>Tower Engineering Professionals, Inc.</b> 326 Tryon Road Raleigh, NC 27603 Phone: (919) 661 6351 FAX: (919) 661 6350	<b>Job</b>	Oxford / Fritz Property (BU 876362)	<b>Page</b>	45 of 65
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Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	Placement	CAAA Front	CAAA Side	Weight
			ft ft ft	°	ft	ft <sup>2</sup>	ft <sup>2</sup>	K
Platform Mount [LP 1302-1]	C	g None	0.00			1" Ice 1.9707 No Ice 56.4000 1/2" Ice 67.5000 1" Ice 78.6000	1.4361 56.4000 67.5000 78.6000	0.11 2.41 3.13 3.85
***								
MX08FRO665-21 w/ Mount Pipe	A	From Centroid-Le g	4.0000 0.00	0.00	107.0000	No Ice 8.0100 1/2" Ice 8.5200 1" Ice 9.0400	4.2300 4.6900 5.1600	0.11 0.19 0.29
MX08FRO665-21 w/ Mount Pipe	B	From Centroid-Le g	4.0000 0.00	0.00	107.0000	No Ice 8.0100 1/2" Ice 8.5200 1" Ice 9.0400	4.2300 4.6900 5.1600	0.11 0.19 0.29
MX08FRO665-21 w/ Mount Pipe	C	From Centroid-Le g	4.0000 0.00	0.00	107.0000	No Ice 8.0100 1/2" Ice 8.5200 1" Ice 9.0400	4.2300 4.6900 5.1600	0.11 0.19 0.29
TA08025-B604	A	From Centroid-Le g	4.0000 0.00	0.00	107.0000	No Ice 1.9635 1/2" Ice 2.1378 1" Ice 2.3195	0.9811 1.1117 1.2496	0.06 0.08 0.10
TA08025-B604	B	From Centroid-Le g	4.0000 0.00	0.00	107.0000	No Ice 1.9635 1/2" Ice 2.1378 1" Ice 2.3195	0.9811 1.1117 1.2496	0.06 0.08 0.10
TA08025-B604	C	From Centroid-Le g	4.0000 0.00	0.00	107.0000	No Ice 1.9635 1/2" Ice 2.1378 1" Ice 2.3195	0.9811 1.1117 1.2496	0.06 0.08 0.10
TA08025-B605	A	From Centroid-Le g	4.0000 0.00	0.00	107.0000	No Ice 1.9635 1/2" Ice 2.1378 1" Ice 2.3195	1.1295 1.2666 1.4112	0.08 0.09 0.11
TA08025-B605	B	From Centroid-Le g	4.0000 0.00	0.00	107.0000	No Ice 1.9635 1/2" Ice 2.1378 1" Ice 2.3195	1.1295 1.2666 1.4112	0.08 0.09 0.11
TA08025-B605	C	From Centroid-Le g	4.0000 0.00	0.00	107.0000	No Ice 1.9635 1/2" Ice 2.1378 1" Ice 2.3195	1.1295 1.2666 1.4112	0.08 0.09 0.11
RDIDC-9181-PF-48	A	From Centroid-Le g	4.0000 0.00	0.00	107.0000	No Ice 2.0119 1/2" Ice 2.1886 1" Ice 2.3727	1.1682 1.3109 1.4611	0.02 0.04 0.06
(2) 2.4" x 8' Pipe	A	From Centroid-Le g	4.0000 0.00	0.00	107.0000	No Ice 1.8998 1/2" Ice 2.7317 1" Ice 3.4156	1.9000 2.7319 3.4159	0.03 0.05 0.07
(2) 2.4" x 8' Pipe	B	From Centroid-Le g	4.0000 0.00	0.00	107.0000	No Ice 1.8998 1/2" Ice 2.7317 1" Ice 3.4156	1.9000 2.7319 3.4159	0.03 0.05 0.07
(2) 2.4" x 8' Pipe	C	From Centroid-Le g	4.0000 0.00	0.00	107.0000	No Ice 1.8998 1/2" Ice 2.7317 1" Ice 3.4156	1.9000 2.7319 3.4159	0.03 0.05 0.07
Commscope MC-PK8-DSH	C	g None		0.00	107.0000	No Ice 34.2400 1/2" Ice 62.9500 1" Ice 91.6600	34.2400 62.9500 91.6600	1.75 2.10 2.45
***								
OG-860/1920/GPS-A	C	From Leg	2.0000 0.00 0.00	0.00	75.0000	No Ice 0.3077 1/2" Ice 0.3952 1" Ice 0.4897	0.3667 0.4572 0.5548	0.00 0.01 0.01
Side Arm Mount [SO 701-1]	C	g None		0.00	75.0000	No Ice 0.8500 1/2" Ice 1.1400 1" Ice 1.4300	1.6700 2.3400 3.0100	0.07 0.08 0.09

\*\*\*\*\*

<b>tnxTower</b>  <b>Tower Engineering Professionals, Inc.</b> 326 Tryon Road Raleigh, NC 27603 Phone: (919) 661 6351 FAX: (919) 661 6350	<b>Job</b>	Oxford / Fritz Property (BU 876362)	<b>Page</b>	46 of 65
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	<b>Client</b>	Crown Castle	<b>Designed by</b>	djbrevig

## Load Combinations

<i>Comb. No.</i>	<i>Description</i>
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

## Maximum Member Forces

<b>tnxTower</b>  <b>Tower Engineering Professionals, Inc.</b> 326 Tryon Road Raleigh, NC 27603 Phone: (919) 661 6351 FAX: (919) 661 6350	<b>Job</b>	Oxford / Fritz Property (BU 876362)	<b>Page</b>	47 of 65
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	<b>Client</b>	Crown Castle	<b>Designed by</b>	djbrevig

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	150 - 145	Pole	Max Tension	26	0.00	-0.00	-0.00
			Max. Compression	26	-7.21	-0.11	-0.36
			Max. Mx	8	-3.41	-34.03	-0.21
			Max. My	14	-3.43	-0.03	-33.50
			Max. Vy	20	-5.16	33.95	-0.20
			Max. Vx	14	5.01	-0.03	-33.50
			Max. Torque	20			0.51
L2	145 - 140	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-7.56	-0.11	-0.36
			Max. Mx	8	-3.65	-60.35	-0.21
			Max. My	14	-3.66	-0.03	-59.08
			Max. Vy	20	-5.37	60.27	-0.20
			Max. Vx	2	-5.22	-0.02	58.56
			Max. Torque	20			0.51
L3	140 - 135	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-15.86	0.44	0.15
			Max. Mx	20	-7.53	98.79	-0.04
			Max. My	14	-7.55	0.06	-96.51
			Max. Vy	20	-9.81	98.79	-0.04
			Max. Vx	2	-9.65	0.12	96.33
			Max. Torque	20			0.51
L4	135 - 130	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-16.30	0.45	0.16
			Max. Mx	20	-7.89	148.31	-0.00
			Max. My	14	-7.91	0.02	-145.24
			Max. Vy	20	-10.01	148.31	-0.00
			Max. Vx	2	-9.85	0.16	145.06
			Max. Torque	10			-0.30
L5	130 - 123.42	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-23.96	0.42	0.91
			Max. Mx	20	-11.19	190.24	0.22
			Max. My	2	-11.19	0.18	187.11
			Max. Vy	20	-14.82	190.24	0.22
			Max. Vx	2	-14.84	0.18	187.11
			Max. Torque	10			-0.30
L6	123.42 - 122.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-24.72	0.43	0.93
			Max. Mx	20	-11.78	254.99	0.26
			Max. My	2	-11.78	0.22	251.95
			Max. Vy	20	-15.02	254.99	0.26
			Max. Vx	2	-15.05	0.22	251.95
			Max. Torque	2			0.19
L7	122.25 - 122	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-24.77	0.43	0.93
			Max. Mx	20	-11.83	258.74	0.26
			Max. My	2	-11.83	0.22	255.71
			Max. Vy	20	-15.03	258.74	0.26
			Max. Vx	2	-15.05	0.22	255.71
			Max. Torque	2			0.19
L8	122 - 120.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-25.09	0.43	0.93
			Max. Mx	20	-12.07	285.11	0.27
			Max. My	2	-12.07	0.23	282.12
			Max. Vy	20	-15.12	285.11	0.27
			Max. Vx	2	-15.14	0.23	282.12
			Max. Torque	2			0.19
L9	120.25 - 120	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-25.15	0.43	0.93
			Max. Mx	20	-12.12	288.89	0.27

<p><b>tnxTower</b></p> <p><b>Tower Engineering Professionals, Inc.</b>  326 Tryon Road  Raleigh, NC 27603  Phone: (919) 661 6351  FAX: (919) 661 6350</p>	<b>Job</b> Oxford / Fritz Property (BU 876362)	<b>Page</b> 48 of 65
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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft			
L10	120 - 115.25	Pole	Max. My	2	-12.12	0.24	285.90			
			Max. Vy	20	-15.12	288.89	0.27			
			Max. Vx	2	-15.15	0.24	285.90			
			Max. Torque	2			0.19			
			Max Tension	1	0.00	0.00	0.00			
			Max. Compression	26	-32.39	0.44	0.95			
			Max. Mx	20	-16.51	367.57	0.31			
			Max. My	2	-16.51	0.27	364.69			
			Max. Vy	20	-18.95	367.57	0.31			
			Max. Vx	2	-18.98	0.27	364.69			
L11	115.25 - 115	Pole	Max. Torque	2			0.19			
			Max Tension	1	0.00	0.00	0.00			
			Max. Compression	26	-32.44	0.44	0.95			
			Max. Mx	20	-16.55	372.31	0.31			
			Max. My	2	-16.55	0.28	369.43			
			Max. Vy	20	-18.96	372.31	0.31			
			Max. Vx	2	-18.98	0.28	369.43			
			Max. Torque	2			0.19			
			Max Tension	1	0.00	0.00	0.00			
			Max. Compression	26	-32.51	0.44	0.95			
L12	115 - 114.75	Pole	Max. Mx	20	-16.60	377.05	0.32			
			Max. My	2	-16.60	0.28	374.18			
			Max. Vy	20	-18.97	377.05	0.32			
			Max. Vx	2	-18.99	0.28	374.18			
			Max. Torque	2			0.19			
			Max Tension	1	0.00	0.00	0.00			
			L13	114.75 - 109.75	Pole	Max. Compression	26	-33.72	0.44	0.95
						Max. Mx	20	-17.56	472.51	0.36
						Max. My	2	-17.55	0.32	469.74
						Max. Vy	20	-19.22	472.51	0.36
Max. Vx	2	-19.24				0.32	469.74			
Max. Torque	2						0.19			
Max Tension	1	0.00				0.00	0.00			
L14	109.75 - 105.25	Pole				Max. Compression	26	-39.77	0.45	1.20
						Max. Mx	20	-21.50	563.96	0.48
						Max. My	2	-21.49	0.36	561.42
			Max. Vy	20	-22.01	563.96	0.48			
			Max. Vx	2	-22.05	0.36	561.42			
			Max. Torque	17			-0.23			
			Max Tension	1	0.00	0.00	0.00			
			L15	105.25 - 105	Pole	Max. Compression	26	-39.85	0.45	1.20
						Max. Mx	20	-21.57	569.46	0.49
						Max. My	2	-21.57	0.36	566.93
Max. Vy	20	-22.01				569.46	0.49			
Max. Vx	2	-22.06				0.36	566.93			
Max. Torque	17						-0.23			
Max Tension	1	0.00				0.00	0.00			
L16	105 - 101.92	Pole				Max. Compression	26	-40.83	0.47	1.21
						Max. Mx	20	-22.34	637.51	0.51
						Max. My	2	-22.34	0.40	635.11
			Max. Vy	20	-22.19	637.51	0.51			
			Max. Vx	2	-22.23	0.40	635.11			
			Max. Torque	17			-0.23			
			Max Tension	1	0.00	0.00	0.00			
			L17	101.92 - 101.67	Pole	Max. Compression	26	-40.92	0.47	1.21
						Max. Mx	20	-22.41	643.06	0.52
						Max. My	2	-22.41	0.40	640.67
Max. Vy	20	-22.20				643.06	0.52			

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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L18	101.67 - 101.25	Pole	Max. Vx	2	-22.23	0.40	640.67
			Max. Torque	17			-0.23
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-41.05	0.47	1.21
			Max. Mx	20	-22.52	652.39	0.52
			Max. My	2	-22.52	0.40	650.01
			Max. Vy	20	-22.22	652.39	0.52
L19	101.25 - 101	Pole	Max. Vx	2	-22.26	0.40	650.01
			Max. Torque	17			-0.23
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-41.14	0.47	1.21
			Max. Mx	20	-22.59	657.94	0.52
			Max. My	2	-22.59	0.41	655.57
			Max. Vy	20	-22.23	657.94	0.52
L20	101 - 100.25	Pole	Max. Vx	2	-22.27	0.41	655.57
			Max. Torque	17			-0.23
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-41.39	0.48	1.22
			Max. Mx	20	-22.78	674.63	0.53
			Max. My	2	-22.78	0.41	672.29
			Max. Vy	20	-22.28	674.63	0.53
L21	100.25 - 100	Pole	Max. Vx	2	-22.31	0.41	672.29
			Max. Torque	17			-0.23
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-41.47	0.48	1.22
			Max. Mx	20	-22.85	680.20	0.53
			Max. My	2	-22.85	0.42	677.87
			Max. Vy	20	-22.29	680.20	0.53
L22	100 - 95	Pole	Max. Vx	2	-22.33	0.42	677.87
			Max. Torque	17			-0.23
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-43.13	0.51	1.23
			Max. Mx	20	-24.17	792.29	0.58
			Max. My	2	-24.17	0.47	790.14
			Max. Vy	20	-22.56	792.29	0.58
L23	95 - 85.96	Pole	Max. Vx	2	-22.59	0.47	790.14
			Max. Torque	17			-0.23
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-44.80	0.54	1.25
			Max. Mx	20	-25.51	904.76	0.63
			Max. My	2	-25.50	0.53	902.79
			Max. Vy	20	-22.81	904.76	0.63
L24	85.96 - 85.04	Pole	Max. Vx	2	-22.85	0.53	902.79
			Max. Torque	17			-0.23
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-47.64	0.57	1.27
			Max. Mx	20	-27.85	1019.73	0.68
			Max. My	2	-27.85	0.58	1017.93
			Max. Vy	20	-23.17	1019.73	0.68
L25	85.04 - 82	Pole	Max. Vx	2	-23.21	0.58	1017.93
			Max. Torque	17			-0.23
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-48.78	0.59	1.28
			Max. Mx	20	-28.75	1090.38	0.71
			Max. My	2	-28.75	0.62	1088.69
			Max. Vy	20	-23.32	1090.38	0.71
L26	82 - 81.75	Pole	Max. Vx	2	-23.36	0.62	1088.69
			Max. Torque	17			-0.23
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-48.89	0.59	1.28

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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L27	81.75 - 77.5	Pole	Max. Mx	20	-28.85	1096.21	0.71
			Max. My	2	-28.85	0.62	1094.53
			Max. Vy	20	-23.33	1096.21	0.71
			Max. Vx	2	-23.37	0.62	1094.53
			Max. Torque	17			-0.23
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-50.75	0.61	1.30
			Max. Mx	20	-30.34	1195.86	0.75
			Max. My	2	-30.34	0.67	1194.35
			Max. Vy	20	-23.58	1195.86	0.75
L28	77.5 - 77.25	Pole	Max. Vx	2	-23.62	0.67	1194.35
			Max. Torque	17			-0.23
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-50.85	0.62	1.30
			Max. Mx	20	-30.43	1201.76	0.76
			Max. My	2	-30.43	0.67	1200.25
			Max. Vy	20	-23.58	1201.76	0.76
			Max. Vx	2	-23.63	0.67	1200.25
			Max. Torque	17			-0.23
			Max Tension	1	0.00	0.00	0.00
L29	77.25 - 75	Pole	Max. Compression	26	-51.78	0.63	1.30
			Max. Mx	20	-31.15	1254.94	0.78
			Max. My	2	-31.15	0.70	1253.54
			Max. Vy	20	-23.71	1254.94	0.78
			Max. Vx	2	-23.76	0.70	1253.54
			Max. Torque	17			-0.23
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-52.00	0.66	1.29
			Max. Mx	20	-31.31	1260.89	0.78
			Max. My	2	-31.31	0.70	1259.49
L30	75 - 74.75	Pole	Max. Vy	20	-23.78	1260.89	0.78
			Max. Vx	2	-23.83	0.70	1259.49
			Max. Torque	17			-0.25
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-52.11	0.66	1.29
			Max. Mx	20	-31.40	1266.83	0.78
			Max. My	2	-31.39	0.71	1265.45
			Max. Vy	20	-23.79	1266.83	0.78
			Max. Vx	2	-23.85	0.71	1265.45
			Max. Torque	17			-0.25
L31	74.75 - 74.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-53.12	0.68	1.30
			Max. Mx	20	-32.19	1322.40	0.81
			Max. My	2	-32.18	0.73	1321.15
			Max. Vy	20	-23.92	1322.40	0.81
			Max. Vx	2	-23.99	0.73	1321.15
			Max. Torque	17			-0.25
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-53.23	0.68	1.31
			Max. Mx	20	-32.28	1328.38	0.81
L32	74.5 - 72.17	Pole	Max. My	2	-32.28	0.74	1327.15
			Max. Vy	20	-23.93	1328.38	0.81
			Max. Vx	2	-23.99	0.74	1327.15
			Max. Torque	17			-0.25
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-54.63	0.71	1.32
			Max. Mx	20	-33.39	1404.47	0.85
			Max. My	2	-33.38	0.78	1403.46
			Max. Vy	20	-24.10	1404.47	0.85
			Max. Vx	2	-24.17	0.78	1403.46
L33	72.17 - 71.92	Pole	Max. Torque	17			-0.25
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-54.63	0.71	1.32
			Max. Mx	20	-33.39	1404.47	0.85
			Max. My	2	-33.38	0.78	1403.46
			Max. Vy	20	-24.10	1404.47	0.85
L34	71.92 - 68.75	Pole	Max. Vx	2	-24.17	0.78	1403.46
			Max. Torque	17			-0.25



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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L35	68.75 - 68.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-54.75	0.71	1.32
			Max. Mx	20	-33.49	1410.49	0.85
			Max. My	2	-33.49	0.78	1409.50
			Max. Vy	20	-24.10	1410.49	0.85
			Max. Vx	2	-24.18	0.78	1409.50
			Max. Torque	17			-0.25
L36	68.5 - 63.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-57.16	0.76	1.35
			Max. Mx	20	-35.42	1531.67	0.90
			Max. My	2	-35.42	0.84	1531.07
			Max. Vy	20	-24.38	1531.67	0.90
			Max. Vx	2	-24.47	0.84	1531.07
			Max. Torque	17			-0.25
L37	63.5 - 58.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-59.58	0.81	1.38
			Max. Mx	20	-37.38	1654.20	0.96
			Max. My	2	-37.38	0.91	1654.03
			Max. Vy	20	-24.65	1654.20	0.96
			Max. Vx	2	-24.74	0.91	1654.03
			Max. Torque	17			-0.25
L38	58.5 - 53.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-62.04	0.85	1.40
			Max. Mx	20	-39.37	1778.02	1.01
			Max. My	2	-39.36	0.97	1778.30
			Max. Vy	20	-24.90	1778.02	1.01
			Max. Vx	2	-25.00	0.97	1778.30
			Max. Torque	17			-0.25
L39	53.5 - 48.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-64.51	0.90	1.43
			Max. Mx	20	-41.38	1903.08	1.07
			Max. My	2	-41.37	1.03	1903.83
			Max. Vy	20	-25.14	1903.08	1.07
			Max. Vx	2	-25.24	1.03	1903.83
			Max. Torque	17			-0.25
L40	48.5 - 42.41	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-64.96	0.91	1.44
			Max. Mx	20	-41.75	1926.22	1.08
			Max. My	2	-41.75	1.04	1927.06
			Max. Vy	20	-25.19	1926.22	1.08
			Max. Vx	2	-25.28	1.04	1927.06
			Max. Torque	17			-0.25
L41	42.41 - 41.41	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-69.81	0.97	1.47
			Max. Mx	20	-45.84	2082.87	1.15
			Max. My	2	-45.84	1.12	2084.29
			Max. Vy	20	-25.59	2082.87	1.15
			Max. Vx	2	-25.68	1.12	2084.29
			Max. Torque	17			-0.25
L42	41.41 - 36.41	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-72.01	1.02	1.50
			Max. Mx	20	-47.72	2211.17	1.20
			Max. My	2	-47.72	1.19	2213.06
			Max. Vy	20	-25.76	2211.17	1.20
			Max. Vx	2	-25.86	1.19	2213.06
			Max. Torque	17			-0.25
L43	36.41 - 32.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-73.64	1.06	1.53
			Max. Mx	20	-49.12	2305.62	1.24
			Max. My	2	-49.12	1.23	2307.85
			Max. Vy	20	-25.88	2305.62	1.24

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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L44	32.75 - 32.5	Pole	Max. Vx	2	-25.98	1.23	2307.85
			Max. Torque	17			-0.25
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-73.75	1.06	1.53
			Max. Mx	20	-49.23	2312.09	1.24
			Max. My	2	-49.23	1.24	2314.35
			Max. Vy	20	-25.88	2312.09	1.24
			Max. Vx	2	-25.97	1.24	2314.35
L45	32.5 - 31.25	Pole	Max. Torque	17			-0.25
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-74.34	1.07	1.54
			Max. Mx	20	-49.73	2344.46	1.26
			Max. My	2	-49.73	1.25	2346.83
			Max. Vy	20	-25.93	2344.46	1.26
			Max. Vx	2	-26.03	1.25	2346.83
			Max. Torque	17			-0.25
L46	31.25 - 31	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-74.46	1.08	1.54
			Max. Mx	20	-49.84	2350.94	1.26
			Max. My	2	-49.84	1.26	2353.33
			Max. Vy	20	-25.93	2350.94	1.26
			Max. Vx	2	-26.02	1.26	2353.33
			Max. Torque	17			-0.25
			Max Tension	1	0.00	0.00	0.00
L47	31 - 26	Pole	Max. Compression	26	-76.82	1.13	1.57
			Max. Mx	20	-51.87	2480.95	1.32
			Max. My	2	-51.87	1.32	2483.81
			Max. Vy	20	-26.09	2480.95	1.32
			Max. Vx	2	-26.19	1.32	2483.81
			Max. Torque	17			-0.25
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-79.20	1.18	1.61
L48	26 - 21	Pole	Max. Mx	20	-53.93	2611.74	1.37
			Max. My	2	-53.93	1.39	2615.07
			Max. Vy	20	-26.25	2611.74	1.37
			Max. Vx	2	-26.35	1.39	2615.07
			Max. Torque	17			-0.25
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-80.29	1.20	1.60
			Max. Mx	20	-54.87	2670.86	1.39
L49	21 - 18.75	Pole	Max. My	2	-54.87	1.42	2674.39
			Max. Vy	20	-26.32	2670.86	1.39
			Max. Vx	2	-26.42	1.42	2674.39
			Max. Torque	17			-0.25
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-80.41	1.20	1.60
			Max. Mx	20	-54.99	2677.43	1.40
			Max. My	2	-54.98	1.42	2681.00
L50	18.75 - 18.5	Pole	Max. Vy	20	-26.32	2677.43	1.40
			Max. Vx	2	-26.41	1.42	2681.00
			Max. Torque	17			-0.25
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-82.11	1.24	1.59
			Max. Mx	20	-56.45	2769.71	1.44
			Max. My	2	-56.45	1.46	2773.60
			Max. Vy	20	-26.43	2769.71	1.44
L51	18.5 - 15	Pole	Max. Vx	2	-26.53	1.46	2773.60
			Max. Torque	17			-0.25
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-82.22	1.24	1.59
			Max. Mx	20	-56.56	2776.32	1.44

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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L53	14.75 - 9.75	Pole	Max. My	2	-56.56	1.47	2780.23
			Max. Vy	20	-26.43	2776.32	1.44
			Max. Vx	2	-26.52	1.47	2780.23
			Max. Torque	17			-0.25
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-84.47	1.33	1.59
			Max. Mx	20	-58.53	2908.70	1.49
			Max. My	2	-58.52	1.53	2913.08
			Max. Vy	20	-26.55	2908.70	1.49
			Max. Vx	2	-26.65	1.53	2913.08
L54	9.75 - 4.75	Pole	Max. Torque	17			-0.25
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-86.72	1.39	1.56
			Max. Mx	20	-60.53	3041.64	1.55
			Max. My	2	-60.53	1.60	3046.47
			Max. Vy	20	-26.66	3041.64	1.55
			Max. Vx	2	-26.75	1.60	3046.47
			Max. Torque	17			-0.25
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-88.28	1.43	1.55
L55	4.75 - 1.25	Pole	Max. Mx	20	-61.94	3135.01	1.59
			Max. My	2	-61.94	1.64	3140.17
			Max. Vy	20	-26.74	3135.01	1.59
			Max. Vx	2	-26.83	1.64	3140.17
			Max. Torque	17			-0.25
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-88.42	1.43	1.55
			Max. Mx	20	-62.08	3141.69	1.59
			Max. My	2	-62.08	1.65	3146.87
			Max. Vy	20	-26.72	3141.69	1.59
L56	1.25 - 1	Pole	Max. Vx	2	-26.82	1.65	3146.87
			Max. Torque	17			-0.25
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-88.95	1.44	1.55
			Max. Mx	20	-62.57	3168.43	1.60
			Max. My	2	-62.57	1.66	3173.71
			Max. Vy	20	-26.77	3168.43	1.60
			Max. Vx	2	-26.86	1.66	3173.71
			Max. Torque	17			-0.25
			L57	1 - 0	Pole	Max. Mx	20
Max. My	2	-62.57				1.66	3173.71
Max. Vy	20	-26.77				3168.43	1.60
Max. Vx	2	-26.86				1.66	3173.71
Max. Torque	17						-0.25
Max Tension	1	0.00				0.00	0.00
Max. Compression	26	-88.95				1.44	1.55
Max. Mx	20	-62.57				3168.43	1.60
Max. My	2	-62.57				1.66	3173.71
Max. Vy	20	-26.77				3168.43	1.60

## Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	26	88.95	0.00	0.00
	Max. H <sub>x</sub>	20	62.58	26.75	0.01
	Max. H <sub>z</sub>	2	62.58	0.01	26.85
	Max. M <sub>x</sub>	2	3173.71	0.01	26.85
	Max. M <sub>z</sub>	8	3167.34	-26.75	-0.01
	Max. Torsion	5	0.24	-13.42	23.30
	Min. Vert	7	46.93	-23.15	13.39
	Min. H <sub>x</sub>	8	62.58	-26.75	-0.01
	Min. H <sub>z</sub>	14	62.58	-0.01	-26.85
	Min. M <sub>x</sub>	14	-3172.73	-0.01	-26.85
	Min. M <sub>z</sub>	20	-3168.43	26.75	0.01
	Min. Torsion	17	-0.25	13.42	-23.30

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Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
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## Tower Mast Reaction Summary

Load Combination	Vertical K	Shear <sub>x</sub> K	Shear <sub>z</sub> K	Overturning Moment, M <sub>x</sub> kip-ft	Overturning Moment, M <sub>z</sub> kip-ft	Torque kip-ft
Dead Only	52.15	0.00	0.00	-0.38	0.43	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	62.58	-0.01	-26.85	-3173.71	1.66	-0.22
0.9 Dead+1.0 Wind 0 deg - No Ice	46.93	-0.01	-26.85	-3126.27	1.50	-0.22
1.2 Dead+1.0 Wind 30 deg - No Ice	62.58	13.42	-23.30	-2753.73	-1587.20	-0.24
0.9 Dead+1.0 Wind 30 deg - No Ice	46.93	13.42	-23.30	-2712.57	-1563.65	-0.24
1.2 Dead+1.0 Wind 60 deg - No Ice	62.58	23.15	-13.39	-1584.10	-2741.39	-0.20
0.9 Dead+1.0 Wind 60 deg - No Ice	46.93	23.15	-13.39	-1560.35	-2700.58	-0.20
1.2 Dead+1.0 Wind 90 deg - No Ice	62.58	26.75	0.01	0.63	-3167.34	-0.11
0.9 Dead+1.0 Wind 90 deg - No Ice	46.93	26.75	0.01	0.74	-3120.18	-0.11
1.2 Dead+1.0 Wind 120 deg - No Ice	62.58	23.16	13.40	1585.01	-2742.43	0.01
0.9 Dead+1.0 Wind 120 deg - No Ice	46.93	23.16	13.40	1561.49	-2701.60	0.01
1.2 Dead+1.0 Wind 150 deg - No Ice	62.58	13.38	23.21	2745.63	-1584.37	0.13
0.9 Dead+1.0 Wind 150 deg - No Ice	46.93	13.38	23.21	2704.79	-1560.84	0.13
1.2 Dead+1.0 Wind 180 deg - No Ice	62.58	0.01	26.85	3172.73	-0.57	0.22
0.9 Dead+1.0 Wind 180 deg - No Ice	46.93	0.01	26.85	3125.55	-0.69	0.22
1.2 Dead+1.0 Wind 210 deg - No Ice	62.58	-13.42	23.30	2752.76	1588.29	0.25
0.9 Dead+1.0 Wind 210 deg - No Ice	46.93	-13.42	23.30	2711.85	1564.46	0.25
1.2 Dead+1.0 Wind 240 deg - No Ice	62.58	-23.15	13.39	1583.13	2742.48	0.21
0.9 Dead+1.0 Wind 240 deg - No Ice	46.93	-23.15	13.39	1559.63	2701.39	0.21
1.2 Dead+1.0 Wind 270 deg - No Ice	62.58	-26.75	-0.01	-1.60	3168.43	0.11
0.9 Dead+1.0 Wind 270 deg - No Ice	46.93	-26.75	-0.01	-1.45	3120.98	0.12
1.2 Dead+1.0 Wind 300 deg - No Ice	62.58	-23.16	-13.40	-1585.99	2743.52	-0.02
0.9 Dead+1.0 Wind 300 deg - No Ice	46.93	-23.16	-13.40	-1562.20	2702.41	-0.01
1.2 Dead+1.0 Wind 330 deg - No Ice	62.58	-13.38	-23.21	-2746.60	1585.46	-0.14
0.9 Dead+1.0 Wind 330 deg - No Ice	46.93	-13.38	-23.21	-2705.51	1561.64	-0.13
1.2 Dead+1.0 Ice+1.0 Temp	88.95	-0.00	-0.00	-1.55	1.44	-0.00
1.2 Dead+1.0 Wind 0 deg+1.0	88.95	-0.00	-7.08	-838.85	1.78	-0.05

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Load Combination	Vertical K	Shear <sub>x</sub> K	Shear <sub>z</sub> K	Overturning Moment, M <sub>x</sub> kip-ft	Overturning Moment, M <sub>z</sub> kip-ft	Torque kip-ft
Ice+1.0 Temp						
1.2 Dead+1.0 Wind 30 deg+1.0	88.95	3.53	-6.13	-726.60	-416.37	-0.02
Ice+1.0 Temp						
1.2 Dead+1.0 Wind 60 deg+1.0	88.95	6.12	-3.54	-420.12	-722.54	0.01
Ice+1.0 Temp						
1.2 Dead+1.0 Wind 90 deg+1.0	88.95	7.07	0.00	-1.53	-834.68	0.04
Ice+1.0 Temp						
1.2 Dead+1.0 Wind 120 deg+1.0	88.95	6.12	3.54	417.00	-722.75	0.06
Ice+1.0 Temp						
1.2 Dead+1.0 Wind 150 deg+1.0	88.95	3.54	6.13	723.32	-416.74	0.06
Ice+1.0 Temp						
1.2 Dead+1.0 Wind 180 deg+1.0	88.95	0.00	7.08	835.37	1.36	0.05
Ice+1.0 Temp						
1.2 Dead+1.0 Wind 210 deg+1.0	88.95	-3.53	6.13	723.11	419.51	0.02
Ice+1.0 Temp						
1.2 Dead+1.0 Wind 240 deg+1.0	88.95	-6.12	3.54	416.63	725.68	-0.01
Ice+1.0 Temp						
1.2 Dead+1.0 Wind 270 deg+1.0	88.95	-7.07	-0.00	-1.95	837.82	-0.04
Ice+1.0 Temp						
1.2 Dead+1.0 Wind 300 deg+1.0	88.95	-6.12	-3.54	-420.48	725.89	-0.06
Ice+1.0 Temp						
1.2 Dead+1.0 Wind 330 deg+1.0	88.95	-3.54	-6.13	-726.81	419.88	-0.06
Ice+1.0 Temp						
Dead+Wind 0 deg - Service	52.15	-0.00	-6.54	-766.85	0.72	-0.05
Dead+Wind 30 deg - Service	52.15	3.27	-5.68	-665.41	-383.04	-0.06
Dead+Wind 60 deg - Service	52.15	5.64	-3.26	-382.90	-661.82	-0.05
Dead+Wind 90 deg - Service	52.15	6.52	0.00	-0.13	-764.70	-0.03
Dead+Wind 120 deg - Service	52.15	5.64	3.26	382.55	-662.07	-0.00
Dead+Wind 150 deg - Service	52.15	3.26	5.66	662.88	-382.36	0.03
Dead+Wind 180 deg - Service	52.15	0.00	6.54	766.04	0.18	0.05
Dead+Wind 210 deg - Service	52.15	-3.27	5.68	664.61	383.95	0.06
Dead+Wind 240 deg - Service	52.15	-5.64	3.26	382.09	662.72	0.06
Dead+Wind 270 deg - Service	52.15	-6.52	-0.00	-0.67	765.61	0.03
Dead+Wind 300 deg - Service	52.15	-5.64	-3.26	-383.36	662.97	-0.00
Dead+Wind 330 deg - Service	52.15	-3.26	-5.66	-663.69	383.26	-0.03

## Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.00	-52.15	0.00	0.00	52.15	0.00	0.000%
2	-0.01	-62.58	-26.85	0.01	62.58	26.85	0.000%
3	-0.01	-46.93	-26.85	0.01	46.93	26.85	0.000%
4	13.42	-62.58	-23.30	-13.42	62.58	23.30	0.000%
5	13.42	-46.93	-23.30	-13.42	46.93	23.30	0.000%
6	23.15	-62.58	-13.39	-23.15	62.58	13.39	0.000%
7	23.15	-46.93	-13.39	-23.15	46.93	13.39	0.000%
8	26.75	-62.58	0.01	-26.75	62.58	-0.01	0.000%
9	26.75	-46.93	0.01	-26.75	46.93	-0.01	0.000%
10	23.16	-62.58	13.40	-23.16	62.58	-13.40	0.000%
11	23.16	-46.93	13.40	-23.16	46.93	-13.40	0.000%
12	13.38	-62.58	23.21	-13.38	62.58	-23.21	0.000%
13	13.38	-46.93	23.21	-13.38	46.93	-23.21	0.000%
14	0.01	-62.58	26.85	-0.01	62.58	-26.85	0.000%
15	0.01	-46.93	26.85	-0.01	46.93	-26.85	0.000%
16	-13.42	-62.58	23.30	13.42	62.58	-23.30	0.000%
17	-13.42	-46.93	23.30	13.42	46.93	-23.30	0.000%

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Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
18	-23.15	-62.58	13.39	23.15	62.58	-13.39	0.000%
19	-23.15	-46.93	13.39	23.15	46.93	-13.39	0.000%
20	-26.75	-62.58	-0.01	26.75	62.58	0.01	0.000%
21	-26.75	-46.93	-0.01	26.75	46.93	0.01	0.000%
22	-23.16	-62.58	-13.40	23.16	62.58	13.40	0.000%
23	-23.16	-46.93	-13.40	23.16	46.93	13.40	0.000%
24	-13.38	-62.58	-23.21	13.38	62.58	23.21	0.000%
25	-13.38	-46.93	-23.21	13.38	46.93	23.21	0.000%
26	0.00	-88.95	0.00	0.00	88.95	0.00	0.000%
27	-0.00	-88.95	-7.08	0.00	88.95	7.08	0.000%
28	3.53	-88.95	-6.13	-3.53	88.95	6.13	0.000%
29	6.12	-88.95	-3.54	-6.12	88.95	3.54	0.000%
30	7.07	-88.95	0.00	-7.07	88.95	-0.00	0.000%
31	6.12	-88.95	3.54	-6.12	88.95	-3.54	0.000%
32	3.54	-88.95	6.13	-3.54	88.95	-6.13	0.000%
33	0.00	-88.95	7.08	-0.00	88.95	-7.08	0.000%
34	-3.53	-88.95	6.13	3.53	88.95	-6.13	0.000%
35	-6.12	-88.95	3.54	6.12	88.95	-3.54	0.000%
36	-7.07	-88.95	-0.00	7.07	88.95	0.00	0.000%
37	-6.12	-88.95	-3.54	6.12	88.95	3.54	0.000%
38	-3.54	-88.95	-6.13	3.54	88.95	6.13	0.000%
39	-0.00	-52.15	-6.54	0.00	52.15	6.54	0.000%
40	3.27	-52.15	-5.68	-3.27	52.15	5.68	0.000%
41	5.64	-52.15	-3.26	-5.64	52.15	3.26	0.000%
42	6.52	-52.15	0.00	-6.52	52.15	-0.00	0.000%
43	5.64	-52.15	3.26	-5.64	52.15	-3.26	0.000%
44	3.26	-52.15	5.66	-3.26	52.15	-5.66	0.000%
45	0.00	-52.15	6.54	-0.00	52.15	-6.54	0.000%
46	-3.27	-52.15	5.68	3.27	52.15	-5.68	0.000%
47	-5.64	-52.15	3.26	5.64	52.15	-3.26	0.000%
48	-6.52	-52.15	-0.00	6.52	52.15	0.00	0.000%
49	-5.64	-52.15	-3.26	5.64	52.15	3.26	0.000%
50	-3.26	-52.15	-5.66	3.26	52.15	5.66	0.000%

## Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.0000001	0.0000001
2	Yes	5	0.0000001	0.00050183
3	Yes	5	0.0000001	0.00020942
4	Yes	7	0.0000001	0.00015915
5	Yes	6	0.0000001	0.00086223
6	Yes	7	0.0000001	0.00015974
7	Yes	6	0.0000001	0.00086625
8	Yes	5	0.0000001	0.00041830
9	Yes	5	0.0000001	0.00016118
10	Yes	7	0.0000001	0.00015939
11	Yes	6	0.0000001	0.00086411
12	Yes	7	0.0000001	0.00015900
13	Yes	6	0.0000001	0.00086198
14	Yes	5	0.0000001	0.00046250
15	Yes	5	0.0000001	0.00018686
16	Yes	7	0.0000001	0.00016050
17	Yes	6	0.0000001	0.00086984
18	Yes	7	0.0000001	0.00015864

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19	Yes	6	0.0000001	0.00085988
20	Yes	5	0.0000001	0.00044248
21	Yes	5	0.0000001	0.00017639
22	Yes	7	0.0000001	0.00015950
23	Yes	6	0.0000001	0.00086463
24	Yes	7	0.0000001	0.00015990
25	Yes	6	0.0000001	0.00086660
26	Yes	4	0.0000001	0.00014281
27	Yes	7	0.0000001	0.00013147
28	Yes	7	0.0000001	0.00016267
29	Yes	7	0.0000001	0.00016273
30	Yes	7	0.0000001	0.00013071
31	Yes	7	0.0000001	0.00016177
32	Yes	7	0.0000001	0.00016152
33	Yes	7	0.0000001	0.00013051
34	Yes	7	0.0000001	0.00016232
35	Yes	7	0.0000001	0.00016230
36	Yes	7	0.0000001	0.00013133
37	Yes	7	0.0000001	0.00016352
38	Yes	7	0.0000001	0.00016374
39	Yes	5	0.0000001	0.00007786
40	Yes	5	0.0000001	0.00057963
41	Yes	5	0.0000001	0.00059031
42	Yes	5	0.0000001	0.00007686
43	Yes	5	0.0000001	0.00058332
44	Yes	5	0.0000001	0.00057993
45	Yes	5	0.0000001	0.00007759
46	Yes	5	0.0000001	0.00059415
47	Yes	5	0.0000001	0.00057729
48	Yes	5	0.0000001	0.00007706
49	Yes	5	0.0000001	0.00058663
50	Yes	5	0.0000001	0.00059003

### Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	150 - 145	23.67	48	1.59	0.00
L2	145 - 140	22.02	40	1.56	0.00
L3	140 - 135	20.42	40	1.51	0.00
L4	135 - 130	18.88	40	1.45	0.00
L5	130 - 123.42	17.41	40	1.36	0.00
L6	126.59 - 122.25	16.47	40	1.29	0.00
L7	122.25 - 122	15.32	40	1.23	0.00
L8	122 - 120.25	15.25	40	1.23	0.00
L9	120.25 - 120	14.81	40	1.21	0.00
L10	120 - 115.25	14.74	40	1.20	0.00
L11	115.25 - 115	13.57	40	1.15	0.00
L12	115 - 114.75	13.51	40	1.15	0.00
L13	114.75 - 109.75	13.45	40	1.15	0.00
L14	109.75 - 105.25	12.28	40	1.08	0.00
L15	105.25 - 105	11.29	40	1.02	0.00
L16	105 - 101.92	11.23	40	1.02	0.00
L17	101.92 - 101.67	10.59	40	0.99	0.00
L18	101.67 - 101.25	10.53	40	0.99	0.00
L19	101.25 - 101	10.45	40	0.98	0.00
L20	101 - 100.25	10.40	40	0.98	0.00
L21	100.25 - 100	10.24	40	0.97	0.00
L22	100 - 95	10.19	40	0.97	0.00

<b>tnxTower</b>  <b>Tower Engineering Professionals, Inc.</b> 326 Tryon Road Raleigh, NC 27603 Phone: (919) 661 6351 FAX: (919) 661 6350	<b>Job</b>	Oxford / Fritz Property (BU 876362)	<b>Page</b>	58 of 65
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	<b>Client</b>	Crown Castle	<b>Designed by</b>	djbrevig

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L23	95 - 85.96	9.20	40	0.91	0.00
L24	90.04 - 85.04	8.28	40	0.86	0.00
L25	85.04 - 82	7.40	40	0.82	0.00
L26	82 - 81.75	6.89	40	0.79	0.00
L27	81.75 - 77.5	6.85	40	0.79	0.00
L28	77.5 - 77.25	6.16	40	0.75	0.00
L29	77.25 - 75	6.13	40	0.74	0.00
L30	75 - 74.75	5.78	40	0.72	0.00
L31	74.75 - 74.5	5.74	40	0.72	0.00
L32	74.5 - 72.17	5.71	40	0.71	0.00
L33	72.17 - 71.92	5.36	40	0.69	0.00
L34	71.92 - 68.75	5.33	40	0.69	0.00
L35	68.75 - 68.5	4.88	40	0.65	0.00
L36	68.5 - 63.5	4.85	40	0.65	0.00
L37	63.5 - 58.5	4.19	40	0.61	0.00
L38	58.5 - 53.5	3.58	40	0.56	0.00
L39	53.5 - 48.5	3.02	40	0.51	0.00
L40	48.5 - 42.41	2.50	40	0.47	0.00
L41	47.58 - 41.41	2.42	40	0.46	0.00
L42	41.41 - 36.41	1.84	40	0.42	0.00
L43	36.41 - 32.75	1.43	40	0.37	0.00
L44	32.75 - 32.5	1.16	40	0.33	0.00
L45	32.5 - 31.25	1.14	40	0.33	0.00
L46	31.25 - 31	1.05	40	0.32	0.00
L47	31 - 26	1.04	40	0.31	0.00
L48	26 - 21	0.73	40	0.27	0.00
L49	21 - 18.75	0.48	40	0.22	0.00
L50	18.75 - 18.5	0.38	40	0.20	0.00
L51	18.5 - 15	0.37	40	0.19	0.00
L52	15 - 14.75	0.24	40	0.16	0.00
L53	14.75 - 9.75	0.24	40	0.16	0.00
L54	9.75 - 4.75	0.10	40	0.10	0.00
L55	4.75 - 1.25	0.02	40	0.05	0.00
L56	1.25 - 1	0.00	40	0.01	0.00
L57	1 - 0	0.00	40	0.01	0.00

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

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
152.0000	VV-65B-R1_TMO w/ Mount Pipe	48	23.67	1.59	0.00	7462
137.0000	7770.00 w/ Mount Pipe	40	19.49	1.47	0.00	4278
136.0000	(2) RRUS 11 B12	40	19.18	1.46	0.00	4013
127.0000	(2) APL866513-42T0 w/ Mount Pipe	40	16.58	1.30	0.00	3520
117.0000	APXV18-206517S-C-A20	40	14.00	1.18	0.00	5105
107.0000	MX08FRO665-21 w/ Mount Pipe	40	11.67	1.05	0.00	4505
75.0000	OG-860/1920/GPS-A	40	5.78	0.72	0.00	5434

### Maximum Tower Deflections - Design Wind



**tnxTower****Tower Engineering  
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Crown Castle

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Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	150 - 145	98.00	20	6.57	0.01
L2	145 - 140	91.18	20	6.46	0.01
L3	140 - 135	84.53	4	6.26	0.00
L4	135 - 130	78.15	4	5.99	0.00
L5	130 - 123.42	72.09	4	5.63	0.00
L6	126.59 - 122.25	68.18	4	5.34	0.00
L7	122.25 - 122	63.43	4	5.11	0.00
L8	122 - 120.25	63.16	4	5.09	0.00
L9	120.25 - 120	61.32	4	5.00	0.00
L10	120 - 115.25	61.05	4	4.99	0.00
L11	115.25 - 115	56.20	4	4.78	0.00
L12	115 - 114.75	55.95	4	4.76	0.00
L13	114.75 - 109.75	55.71	4	4.75	0.00
L14	109.75 - 105.25	50.87	4	4.50	0.00
L15	105.25 - 105	46.75	4	4.25	0.00
L16	105 - 101.92	46.53	4	4.24	0.00
L17	101.92 - 101.67	43.85	4	4.10	0.00
L18	101.67 - 101.25	43.63	4	4.09	0.00
L19	101.25 - 101	43.27	4	4.08	0.00
L20	101 - 100.25	43.06	4	4.07	0.00
L21	100.25 - 100	42.42	4	4.03	0.00
L22	100 - 95	42.21	4	4.02	0.00
L23	95 - 85.96	38.13	4	3.79	0.00
L24	90.04 - 85.04	34.31	4	3.56	0.00
L25	85.04 - 82	30.66	4	3.42	0.00
L26	82 - 81.75	28.53	4	3.27	0.00
L27	81.75 - 77.5	28.36	4	3.26	0.00
L28	77.5 - 77.25	25.54	4	3.09	0.00
L29	77.25 - 75	25.37	4	3.08	0.00
L30	75 - 74.75	23.95	4	2.98	0.00
L31	74.75 - 74.5	23.79	4	2.97	0.00
L32	74.5 - 72.17	23.64	4	2.96	0.00
L33	72.17 - 71.92	22.22	4	2.85	0.00
L34	71.92 - 68.75	22.07	4	2.84	0.00
L35	68.75 - 68.5	20.23	4	2.71	0.00
L36	68.5 - 63.5	20.09	4	2.70	0.00
L37	63.5 - 58.5	17.36	4	2.51	0.00
L38	58.5 - 53.5	14.83	4	2.32	0.00
L39	53.5 - 48.5	12.51	4	2.13	0.00
L40	48.5 - 42.41	10.38	4	1.94	0.00
L41	47.58 - 41.41	10.01	4	1.90	0.00
L42	41.41 - 36.41	7.63	4	1.76	0.00
L43	36.41 - 32.75	5.91	4	1.54	0.00
L44	32.75 - 32.5	4.79	4	1.38	0.00
L45	32.5 - 31.25	4.72	4	1.36	0.00
L46	31.25 - 31	4.37	4	1.32	0.00
L47	31 - 26	4.30	4	1.30	0.00
L48	26 - 21	3.04	4	1.10	0.00
L49	21 - 18.75	1.99	4	0.90	0.00
L50	18.75 - 18.5	1.59	4	0.81	0.00
L51	18.5 - 15	1.55	4	0.80	0.00
L52	15 - 14.75	1.01	4	0.66	0.00
L53	14.75 - 9.75	0.98	4	0.65	0.00
L54	9.75 - 4.75	0.42	4	0.42	0.00
L55	4.75 - 1.25	0.09	4	0.20	0.00
L56	1.25 - 1	0.01	4	0.04	0.00
L57	1 - 0	0.00	4	0.03	0.00

<b>tnxTower</b>  <b>Tower Engineering Professionals, Inc.</b> 326 Tryon Road Raleigh, NC 27603 Phone: (919) 661 6351 FAX: (919) 661 6350	<b>Job</b> Oxford / Fritz Property (BU 876362)	<b>Page</b> 60 of 65
	<b>Project</b> TEP No. 25611.715545	<b>Date</b> 13:32:04 06/28/22
	<b>Client</b> Crown Castle	<b>Designed by</b> djbrevig

## Critical Deflections and Radius of Curvature - Design Wind

Elevation	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
152.0000	VV-65B-R1_TMO w/ Mount Pipe	20	98.00	6.57	0.01	1866
137.0000	7770.00 w/ Mount Pipe	4	80.67	6.11	0.00	1056
136.0000	(2) RRUS 11 B12	4	79.40	6.05	0.00	991
127.0000	(2) APL866513-42T0 w/ Mount Pipe	4	68.64	5.37	0.00	865
117.0000	APXV18-206517S-C-A20	4	57.97	4.87	0.00	1250
107.0000	MX08FRO665-21 w/ Mount Pipe	4	48.33	4.34	0.00	1099
75.0000	OG-860/1920/GPS-A	4	23.95	2.98	0.00	1317

## Compression Checks

## Pole Design Data

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio $\frac{P_u}{\phi P_n}$
L1	150 - 145 (1)	TP16.0798x15x0.1875	5.0000	0.0000	0.0	9.4579	-3.41	553.29	0.006
L2	145 - 140 (2)	TP17.1595x16.0798x0.1875	5.0000	0.0000	0.0	10.1005	-3.65	590.88	0.006
L3	140 - 135 (3)	TP18.2393x17.1595x0.1875	5.0000	0.0000	0.0	10.7431	-7.53	628.47	0.012
L4	135 - 130 (4)	TP19.319x18.2393x0.1875	5.0000	0.0000	0.0	11.3857	-7.89	666.06	0.012
L5	130 - 123.42 (5)	TP20.74x19.319x0.1875	6.5800	0.0000	0.0	11.8239	-11.19	691.70	0.016
L6	123.42 - 122.25 (6)	TP20.6033x19.6804x0.25	4.3400	0.0000	0.0	16.1503	-11.78	944.79	0.012
L7	122.25 - 122 (7)	TP20.6565x20.6033x0.4125	0.2500	0.0000	0.0	26.5049	-11.83	1550.54	0.008
L8	122 - 120.25 (8)	TP21.0286x20.6565x0.4125	1.7500	0.0000	0.0	26.9921	-12.07	1579.04	0.008
L9	120.25 - 120 (9)	TP21.0817x21.0286x0.575	0.2500	0.0000	0.0	37.4258	-12.12	2189.41	0.006
L10	120 - 115.25 (10)	TP22.0918x21.0817x0.5625	4.7500	0.0000	0.0	38.4378	-16.51	2248.61	0.007
L11	115.25 - 115 (11)	TP22.1449x22.0918x0.4	0.2500	0.0000	0.0	27.6074	-16.55	1615.03	0.010
L12	115 - 114.75 (12)	TP22.1981x22.1449x0.55	0.2500	0.0000	0.0	37.7911	-16.60	2210.78	0.008
L13	114.75 - 109.75 (13)	TP23.2613x22.1981x0.5375	5.0000	0.0000	0.0	38.7674	-17.56	2267.89	0.008
L14	109.75 - 105.25 (14)	TP24.2182x23.2613x0.525	4.5000	0.0000	0.0	39.4811	-21.50	2309.65	0.009
L15	105.25 - 105 (15)	TP24.2713x24.2182x0.7375	0.2500	0.0000	0.0	55.0886	-21.57	3222.68	0.007
L16	105 - 101.92 (16)	TP24.9263x24.2713x0.725	3.0800	0.0000	0.0	55.6907	-22.34	3257.91	0.007
L17	101.92 - 101.67 (17)	TP24.9794x24.9263x0.75	0.2500	0.0000	0.0	57.6781	-22.41	3374.17	0.007
L18	101.67 - 101.25 (18)	TP25.0687x24.9794x0.75	0.4200	0.0000	0.0	57.8907	-22.52	3386.61	0.007
L19	101.25 - 101 (19)	TP25.1219x25.0687x0.75	0.2500	0.0000	0.0	58.0173	-22.59	3394.01	0.007
L20	101 - 100.25	TP25.2814x25.1219x0.75	0.7500	0.0000	0.0	58.3969	-22.78	3416.22	0.007

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	<p><b>Designed by</b></p> <p>djbrevig</p>
<p><b>Project</b></p> <p>TEP No. 25611.715545</p>	
<p><b>Client</b></p> <p>Crown Castle</p>	

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio P <sub>u</sub> / φP <sub>n</sub>
L21	100.25 - 100 (20)	TP25.3345x25.2814x0.7375	0.2500	0.0000	0.0	57.5774	-22.85	3368.28	0.007
L22	100 - 95 (21)	TP26.3977x25.3345x0.7125	5.0000	0.0000	0.0	58.0865	-24.17	3398.06	0.007
L23	95 - 85.96 (23)	TP28.32x26.3977x0.7	9.0400	0.0000	0.0	59.4385	-25.51	3477.16	0.007
L24	85.96 - 85.04 (24)	TP28.0177x26.9524x0.75	5.0000	0.0000	0.0	64.9107	-27.85	3797.28	0.007
L25	85.04 - 82 (25)	TP28.6654x28.0177x0.7375	3.0400	0.0000	0.0	65.3742	-28.75	3824.39	0.008
L26	82 - 81.75 (26)	TP28.7186x28.6654x0.925	0.2500	0.0000	0.0	81.6007	-28.85	4773.64	0.006
L27	81.75 - 77.5 (27)	TP29.6241x28.7186x0.9125	4.2500	0.0000	0.0	83.1566	-30.34	4864.66	0.006
L28	77.5 - 77.25 (28)	TP29.6773x29.6241x0.7875	0.2500	0.0000	0.0	72.2109	-30.43	4224.34	0.007
L29	77.25 - 75 (29)	TP30.1567x29.6773x0.775	2.2500	0.0000	0.0	72.2746	-31.14	4228.06	0.007
L30	75 - 74.75 (30)	TP30.21x30.1567x0.7125	0.2500	0.0000	0.0	66.7078	-31.30	3902.40	0.008
L31	74.75 - 74.5 (31)	TP30.2632x30.21x0.825	0.2500	0.0000	0.0	77.0855	-31.39	4509.50	0.007
L32	74.5 - 72.17 (32)	TP30.7596x30.2632x0.8125	2.3300	0.0000	0.0	77.2299	-32.18	4517.95	0.007
L33	72.17 - 71.92 (33)	TP30.8129x30.7596x0.8375	0.2500	0.0000	0.0	79.6813	-32.28	4661.36	0.007
L34	71.92 - 68.75 (34)	TP31.4883x30.8129x0.8125	3.1700	0.0000	0.0	79.1090	-33.38	4627.87	0.007
L35	68.75 - 68.5 (35)	TP31.5415x31.4883x0.9375	0.2500	0.0000	0.0	91.0661	-33.48	5327.37	0.006
L36	68.5 - 63.5 (36)	TP32.6068x31.5415x0.9125	5.0000	0.0000	0.0	91.7953	-35.41	5370.03	0.007
L37	63.5 - 58.5 (37)	TP33.672x32.6068x0.8875	5.0000	0.0000	0.0	92.3515	-37.37	5402.57	0.007
L38	58.5 - 53.5 (38)	TP34.7373x33.672x0.8625	5.0000	0.0000	0.0	92.7347	-39.36	5424.98	0.007
L39	53.5 - 48.5 (39)	TP35.8025x34.7373x0.8375	5.0000	0.0000	0.0	92.9449	-41.37	5437.28	0.008
L40	48.5 - 42.41 (40)	TP37.1x35.8025x0.8375	6.0900	0.0000	0.0	93.4659	-41.75	5467.76	0.008
L41	42.41 - 41.41 (41)	TP36.6867x35.3735x0.725	6.1700	0.0000	0.0	82.7533	-45.83	4841.07	0.009
L42	41.41 - 36.41 (42)	TP37.7508x36.6867x0.7125	5.0000	0.0000	0.0	83.7613	-47.72	4900.04	0.010
L43	36.41 - 32.75 (43)	TP38.5298x37.7508x0.7	3.6600	0.0000	0.0	83.4734	-48.67	4883.19	0.010
L44	32.75 - 32.5 (44)	TP38.583x38.5298x0.75	0.2500	0.0000	0.0	89.9348	-49.13	5261.19	0.009
L45	32.5 - 31.25 (45)	TP38.8491x38.583x0.75	1.2500	0.0000	0.0	90.0615	-49.24	5268.60	0.009
L46	31.25 - 31 (46)	TP38.9023x38.8491x0.7375	0.2500	0.0000	0.0	89.2125	-49.74	5218.93	0.010
L47	31 - 26 (47)	TP39.9664x38.9023x0.725	5.0000	0.0000	0.0	87.8516	-49.85	5139.32	0.010
L48	26 - 21 (48)	TP41.0306x39.9664x0.725	5.0000	0.0000	0.0	90.3004	-51.88	5282.57	0.010
L49	21 - 18.75 (49)	TP41.5094x41.0306x0.7125	2.2500	0.0000	0.0	91.1783	-53.95	5333.93	0.010
L50	18.75 - 18.5 (50)	TP41.5626x41.5094x0.7	0.2500	0.0000	0.0	90.6704	-54.88	5304.22	0.010
L51	18.5 - 15 (51)	TP42.3075x41.5626x0.6875	3.5000	0.0000	0.0	89.1947	-55.00	5217.89	0.011
L52	15 - 14.75 (52)	TP42.3608x42.3075x0.5875	0.2500	0.0000	0.0	77.7964	-56.46	4551.09	0.012
L53	14.75 - 9.75 (53)	TP43.4249x42.3608x0.5813	5.0000	0.0000	0.0	77.0785	-56.57	4509.09	0.013
L54	9.75 - 4.75 (54)	TP44.4891x43.4249x0.575	5.0000	0.0000	0.0	78.2032	-58.55	4574.89	0.013
L55	4.75 - 1.25 (55)	TP45.234x44.4891x0.575	3.5000	0.0000	0.0	80.1453	-60.55	4688.50	0.013
L56	1.25 - 1 (56)	TP45.2872x45.234x0.75	0.2500	0.0000	0.0	105.894	-61.96	6194.80	0.010
L57	1 - 0 (57)	TP45.5x45.2872x0.75	1.0000	0.0000	0.0	106.021	-62.09	6202.21	0.010

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<b>Client</b>	Crown Castle	<b>Designed by</b>	djbrevig

**Pole Bending Design Data**

Section No.	Elevation ft	Size	$M_{ux}$	$\phi M_{rx}$	Ratio	$M_{uy}$	$\phi M_{ry}$	Ratio
			kip-ft	kip-ft	$\frac{M_{ux}}{\phi M_{rx}}$	kip-ft	kip-ft	$\frac{M_{uy}}{\phi M_{ry}}$
L1	150 - 145 (1)	TP16.0798x15x0.1875	34.03	228.74	0.149	0.00	228.74	0.000
L2	145 - 140 (2)	TP17.1595x16.0798x0.1875	60.35	261.07	0.231	0.00	261.07	0.000
L3	140 - 135 (3)	TP18.2393x17.1595x0.1875	98.79	294.64	0.335	0.00	294.64	0.000
L4	135 - 130 (4)	TP19.319x18.2393x0.1875	148.31	326.33	0.454	0.00	326.33	0.000
L5	130 - 123.42 (5)	TP20.74x19.319x0.1875	190.25	348.54	0.546	0.00	348.54	0.000
L6	123.42 - 122.25 (6)	TP20.6033x19.6804x0.25	254.99	500.00	0.510	0.00	500.00	0.000
L7	122.25 - 122 (7)	TP20.6565x20.6033x0.4125	258.74	809.68	0.320	0.00	809.68	0.000
L8	122 - 120.25 (8)	TP21.0286x20.6565x0.4125	285.11	840.02	0.339	0.00	840.02	0.000
L9	120.25 - 120 (9)	TP21.0817x21.0286x0.575	288.89	1149.50	0.251	0.00	1149.50	0.000
L10	120 - 115.25 (10)	TP22.0918x21.0817x0.5625	367.57	1241.77	0.296	0.00	1241.77	0.000
L11	115.25 - 115 (11)	TP22.1449x22.0918x0.4	372.31	907.65	0.410	0.00	907.65	0.000
L12	115 - 114.75 (12)	TP22.1981x22.1449x0.55	377.05	1228.47	0.307	0.00	1228.47	0.000
L13	114.75 - 109.75 (13)	TP23.2613x22.1981x0.5375	472.51	1325.09	0.357	0.00	1325.09	0.000
L14	109.75 - 105.25 (14)	TP24.2182x23.2613x0.525	563.96	1409.12	0.400	0.00	1409.12	0.000
L15	105.25 - 105 (15)	TP24.2713x24.2182x0.7375	569.46	1935.56	0.294	0.00	1935.56	0.000
L16	105 - 101.92 (16)	TP24.9263x24.2713x0.725	637.51	2014.90	0.316	0.00	2014.90	0.000
L17	101.92 - 101.67 (17)	TP24.9794x24.9263x0.75	643.06	2087.22	0.308	0.00	2087.22	0.000
L18	101.67 - 101.25 (18)	TP25.0687x24.9794x0.75	652.39	2102.86	0.310	0.00	2102.86	0.000
L19	101.25 - 101 (19)	TP25.1219x25.0687x0.75	657.94	2112.20	0.311	0.00	2112.20	0.000
L20	101 - 100.25 (20)	TP25.2814x25.1219x0.75	674.63	2140.35	0.315	0.00	2140.35	0.000
L21	100.25 - 100 (21)	TP25.3345x25.2814x0.7375	680.20	2117.18	0.321	0.00	2117.18	0.000
L22	100 - 95 (22)	TP26.3977x25.3345x0.7125	792.29	2235.26	0.354	0.00	2235.26	0.000
L23	95 - 85.96 (23)	TP28.32x26.3977x0.7	904.77	2385.97	0.379	0.00	2385.97	0.000
L24	85.96 - 85.04 (24)	TP28.0177x26.9524x0.75	1019.73	2652.36	0.384	0.00	2652.36	0.000
L25	85.04 - 82 (25)	TP28.6654x28.0177x0.7375	1090.38	2738.90	0.398	0.00	2738.90	0.000
L26	82 - 81.75 (26)	TP28.7186x28.6654x0.925	1096.21	3379.66	0.324	0.00	3379.66	0.000
L27	81.75 - 77.5 (27)	TP29.6241x28.7186x0.9125	1195.86	3563.02	0.336	0.00	3563.02	0.000
L28	77.5 - 77.25 (28)	TP29.6773x29.6241x0.7875	1201.76	3126.94	0.384	0.00	3126.94	0.000
L29	77.25 - 75 (29)	TP30.1567x29.6773x0.775	1254.96	3185.72	0.394	0.00	3185.72	0.000
L30	75 - 74.75 (30)	TP30.21x30.1567x0.7125	1260.92	2958.33	0.426	0.00	2958.33	0.000
L31	74.75 - 74.5 (31)	TP30.2632x30.21x0.825	1266.88	3398.86	0.373	0.00	3398.86	0.000
L32	74.5 - 72.17 (32)	TP30.7596x30.2632x0.8125	1322.69	3467.11	0.381	0.00	3467.11	0.000
L33	72.17 - 71.92 (33)	TP30.8129x30.7596x0.8375	1328.69	3577.72	0.371	0.00	3577.72	0.000
L34	71.92 - 68.75	TP31.4883x30.8129x0.8125	1405.13	3640.16	0.386	0.00	3640.16	0.000

<b>tnxTower</b>  <b>Tower Engineering Professionals, Inc.</b> 326 Tryon Road Raleigh, NC 27603 Phone: (919) 661 6351 FAX: (919) 661 6350	<b>Job</b>	Oxford / Fritz Property (BU 876362)	<b>Page</b>	63 of 65
	<b>Project</b>	TEP No. 25611.715545	<b>Date</b>	13:32:04 06/28/22
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Section No.	Elevation ft	Size	$M_{ux}$ kip-ft	$\phi M_{rx}$ kip-ft	Ratio $\frac{M_{ux}}{\phi M_{rx}}$	$M_{uy}$ kip-ft	$\phi M_{ry}$ kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ry}}$
L35	(34) 68.75 - 68.5	TP31.5415x31.4883x0.9375	1411.18	4163.73	0.339	0.00	4163.73	0.000
L36	(35) 68.5 - 63.5 (36)	TP32.6068x31.5415x0.9125	1532.96	4354.38	0.352	0.00	4354.38	0.000
L37	63.5 - 58.5 (37)	TP33.672x32.6068x0.8875	1656.13	4539.05	0.365	0.00	4539.05	0.000
L38	58.5 - 53.5 (38)	TP34.7373x33.672x0.8625	1780.62	4716.84	0.378	0.00	4716.84	0.000
L39	53.5 - 48.5 (39)	TP35.8025x34.7373x0.8375	1906.38	4886.88	0.390	0.00	4886.88	0.000
L40	48.5 - 42.41	TP37.1x35.8025x0.8375	1929.64	4942.47	0.390	0.00	4942.47	0.000
L41	(40) 42.41 - 41.41	TP36.6867x35.3735x0.725	2087.16	4491.68	0.465	0.00	4491.68	0.000
L42	(41) 41.41 - 36.41	TP37.7508x36.6867x0.7125	2216.15	4686.75	0.473	0.00	4686.75	0.000
L43	(42) 36.41 - 32.75	TP38.5298x37.7508x0.7	2279.41	4740.52	0.481	0.00	4740.52	0.000
L44	(43) 32.75 - 32.5	TP38.583x38.5298x0.75	2311.11	5129.82	0.451	0.00	5129.82	0.000
L45	(44) 32.5 - 31.25	TP38.8491x38.583x0.75	2317.61	5144.43	0.451	0.00	5144.43	0.000
L46	(45) 31.25 - 31 (46)	TP38.9023x38.8491x0.7375	2350.15	5135.82	0.458	0.00	5135.82	0.000
L47	31 - 26 (47)	TP39.9664x38.9023x0.725	2356.67	5068.00	0.465	0.00	5068.00	0.000
L48	26 - 21 (48)	TP41.0306x39.9664x0.725	2487.37	5357.18	0.464	0.00	5357.18	0.000
L49	21 - 18.75 (49)	TP41.5094x41.0306x0.7125	2618.85	5562.06	0.471	0.00	5562.06	0.000
L50	18.75 - 18.5	TP41.5626x41.5094x0.7	2678.28	5601.34	0.478	0.00	5601.34	0.000
L51	(50) 18.5 - 15 (51)	TP42.3075x41.5626x0.6875	2684.88	5520.86	0.486	0.00	5520.86	0.000
L52	15 - 14.75 (52)	TP42.3608x42.3075x0.5875	2777.64	4928.14	0.564	0.00	4928.14	0.000
L53	14.75 - 9.75	TP43.4249x42.3608x0.5813	2784.28	4890.44	0.569	0.00	4890.44	0.000
L54	(53) 9.75 - 4.75 (54)	TP44.4891x43.4249x0.575	2917.35	5091.40	0.573	0.00	5091.40	0.000
L55	4.75 - 1.25 (55)	TP45.234x44.4891x0.575	3050.97	5349.14	0.570	0.00	5349.14	0.000
L56	1.25 - 1 (56)	TP45.2872x45.234x0.75	3144.81	7132.90	0.441	0.00	7132.90	0.000
L57	1 - 0 (57)	TP45.5x45.2872x0.75	3151.53	7150.12	0.441	0.00	7150.12	0.000

### Pole Shear Design Data

Section No.	Elevation ft	Size	Actual $V_u$ K	$\phi V_n$ K	Ratio $\frac{V_u}{\phi V_n}$	Actual $T_u$ kip-ft	$\phi T_n$ kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	150 - 145 (1)	TP16.0798x15x0.1875	5.16	165.99	0.031	0.51	231.01	0.002
L2	145 - 140 (2)	TP17.1595x16.0798x0.1875	5.37	177.26	0.030	0.51	263.47	0.002
L3	140 - 135 (3)	TP18.2393x17.1595x0.1875	9.81	188.54	0.052	0.23	298.06	0.001
L4	135 - 130 (4)	TP19.319x18.2393x0.1875	10.01	199.82	0.050	0.23	334.78	0.001
L5	130 - 123.42	TP20.74x19.319x0.1875	14.82	207.51	0.071	0.23	361.05	0.001
L6	(5) 123.42 - 122.25 (6)	TP20.6033x19.6804x0.25	15.02	283.44	0.053	0.00	505.21	0.000
L7	122.25 - 122	TP20.6565x20.6033x0.4125	15.03	465.16	0.032	0.00	824.67	0.000
L8	(7) 122 - 120.25	TP21.0286x20.6565x0.4125	15.12	473.71	0.032	0.00	855.27	0.000
L9	(8) 120.25 - 120	TP21.0817x21.0286x0.575	15.12	656.82	0.023	0.00	1179.58	0.000
L10	(9) 120 - 115.25	TP22.0918x21.0817x0.5625	18.95	674.58	0.028	0.00	1271.88	0.000
L11	(10) 115.25 - 115	TP22.1449x22.0918x0.4	18.96	484.51	0.039	0.00	922.66	0.000

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	<b>Client</b>	Crown Castle	<b>Designed by</b>	djbrevig

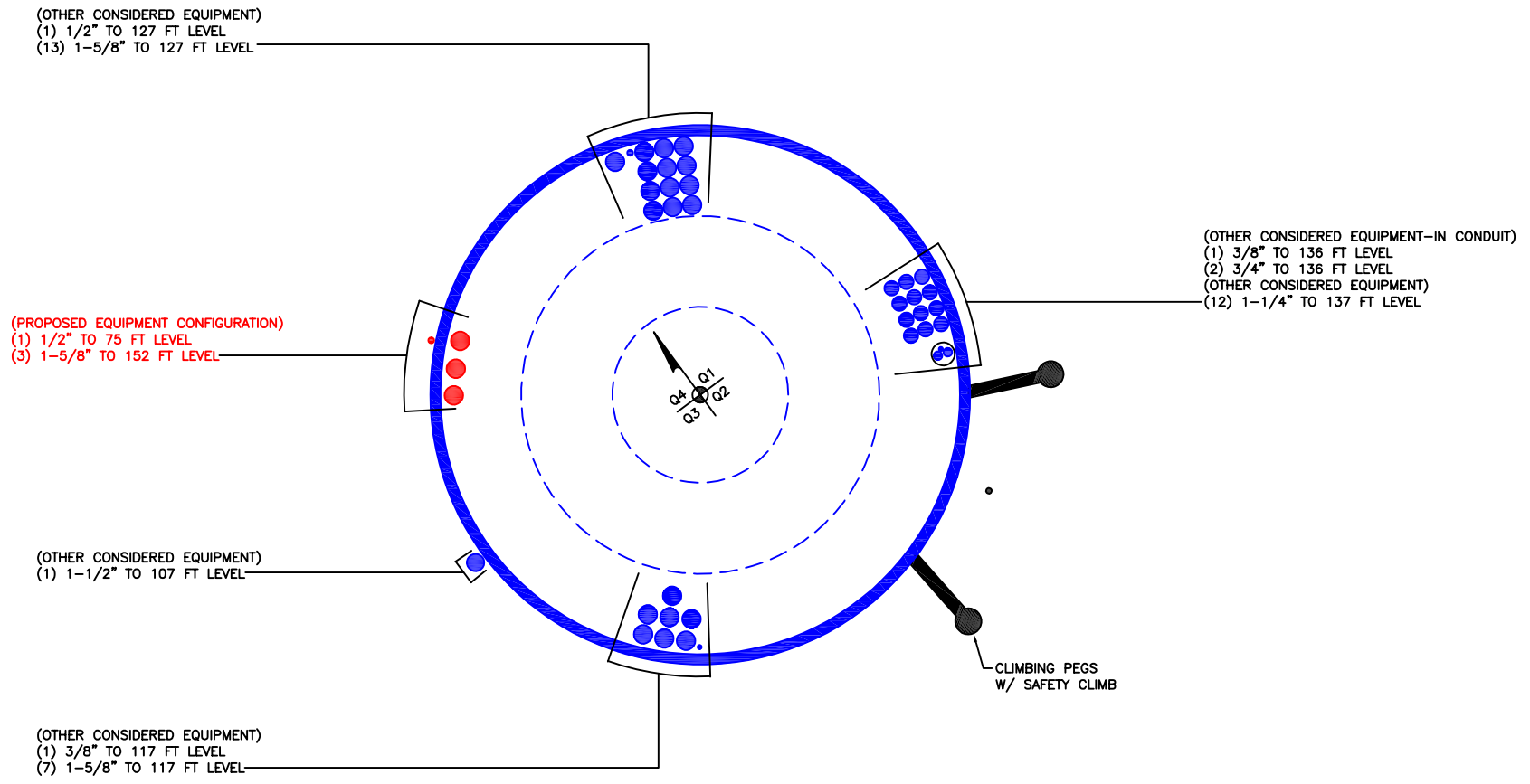
Section No.	Elevation ft	Size	Actual $V_u$ K	$\phi V_n$ K	Ratio $\frac{V_u}{\phi V_n}$	Actual $T_u$ kip-ft	$\phi T_n$ kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L12	(11) 115 - 114.75	TP22.1981x22.1449x0.55	18.97	663.23	0.029	0.00	1257.38	0.000
L13	(12) 114.75 - 109.75 (13)	TP23.2613x22.1981x0.5375	19.22	680.37	0.028	0.00	1353.96	0.000
L14	109.75 - 105.25 (14)	TP24.2182x23.2613x0.525	22.01	692.89	0.032	0.13	1437.71	0.000
L15	105.25 - 105 (15)	TP24.2713x24.2182x0.7375	22.01	966.80	0.023	0.13	1992.56	0.000
L16	105 - 101.92 (16)	TP24.9263x24.2713x0.725	22.19	977.37	0.023	0.13	2071.47	0.000
L17	101.92 - 101.67 (17)	TP24.9794x24.9263x0.75	22.20	1012.25	0.022	0.13	2147.88	0.000
L18	101.67 - 101.25 (18)	TP25.0687x24.9794x0.75	22.22	1015.98	0.022	0.13	2163.75	0.000
L19	101.25 - 101 (19)	TP25.1219x25.0687x0.75	22.23	1018.20	0.022	0.13	2173.22	0.000
L20	101 - 100.25 (20)	TP25.2814x25.1219x0.75	22.28	1024.87	0.022	0.13	2201.76	0.000
L21	100.25 - 100 (21)	TP25.3345x25.2814x0.7375	22.29	1010.48	0.022	0.13	2176.67	0.000
L22	100 - 95 (22)	TP26.3977x25.3345x0.7125	22.56	1019.42	0.022	0.13	2293.07	0.000
L23	95 - 85.96 (23)	TP28.32x26.3977x0.7	22.81	1043.15	0.022	0.13	2443.93	0.000
L24	85.96 - 85.04 (24)	TP28.0177x26.9524x0.75	23.17	1139.18	0.020	0.13	2720.33	0.000
L25	85.04 - 82 (25)	TP28.6654x28.0177x0.7375	23.32	1147.32	0.020	0.13	2806.08	0.000
L26	82 - 81.75 (26)	TP28.7186x28.6654x0.925	23.33	1432.09	0.016	0.13	3485.75	0.000
L27	81.75 - 77.5 (27)	TP29.6241x28.7186x0.9125	23.58	1459.40	0.016	0.13	3669.53	0.000
L28	77.5 - 77.25 (28)	TP29.6773x29.6241x0.7875	23.58	1267.30	0.019	0.13	3206.31	0.000
L29	77.25 - 75 (29)	TP30.1567x29.6773x0.775	23.81	1268.42	0.019	0.22	3263.77	0.000
L30	75 - 74.75 (30)	TP30.21x30.1567x0.7125	23.88	1170.72	0.020	0.24	3024.25	0.000
L31	74.75 - 74.5 (31)	TP30.2632x30.21x0.825	23.89	1352.85	0.018	0.24	3487.72	0.000
L32	74.5 - 72.17 (32)	TP30.7596x30.2632x0.8125	24.03	1355.38	0.018	0.24	3554.66	0.000
L33	72.17 - 71.92 (33)	TP30.8129x30.7596x0.8375	24.03	1398.41	0.017	0.24	3670.95	0.000
L34	71.92 - 68.75 (34)	TP31.4883x30.8129x0.8125	24.21	1388.36	0.017	0.24	3729.73	0.000
L35	68.75 - 68.5 (35)	TP31.5415x31.4883x0.9375	24.22	1598.21	0.015	0.24	4283.44	0.000
L36	68.5 - 63.5 (36)	TP32.6068x31.5415x0.9125	24.51	1611.01	0.015	0.24	4471.56	0.000
L37	63.5 - 58.5 (37)	TP33.672x32.6068x0.8875	24.78	1620.77	0.015	0.24	4653.40	0.000
L38	58.5 - 53.5 (38)	TP34.7373x33.672x0.8625	25.04	1627.49	0.015	0.24	4828.10	0.000
L39	53.5 - 48.5 (39)	TP35.8025x34.7373x0.8375	25.29	1631.18	0.016	0.24	4994.78	0.000
L40	48.5 - 42.41 (40)	TP37.1x35.8025x0.8375	25.33	1640.33	0.015	0.24	5050.94	0.000
L41	42.41 - 41.41 (41)	TP36.6867x35.3735x0.725	25.73	1452.32	0.018	0.24	4573.86	0.000
L42	41.41 - 36.41 (42)	TP37.7508x36.6867x0.7125	25.90	1470.01	0.018	0.24	4768.18	0.000
L43	36.41 - 32.75 (43)	TP38.5298x37.7508x0.7	26.03	1475.08	0.018	0.24	4820.01	0.000
L44	32.75 - 32.5 (44)	TP38.583x38.5298x0.75	26.02	1580.58	0.016	0.24	5222.09	0.000
L45	32.5 - 31.25 (45)	TP38.8491x38.583x0.75	26.08	1591.69	0.016	0.24	5236.82	0.000
L46	31.25 - 31 (46)	TP38.9023x38.8491x0.7375	26.07	1567.86	0.017	0.24	5225.64	0.000

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	<b>Client</b>	Crown Castle	<b>Designed by</b>	djbrevig

Section No.	Elevation ft	Size	Actual $V_u$ K	$\phi V_n$ K	Ratio $\frac{V_u}{\phi V_n}$	Actual $T_u$ kip-ft	$\phi T_n$ kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L47	31 - 26 (47)	TP39.9664x38.9023x0.725	26.11	1550.39	0.017	0.24	5154.80	0.000
L48	26 - 21 (48)	TP41.0306x39.9664x0.725	26.27	1593.37	0.016	0.24	5446.18	0.000
L49	21 - 18.75 (49)	TP41.5094x41.0306x0.7125	26.43	1609.68	0.016	0.24	5650.00	0.000
L50	18.75 - 18.5 (50)	TP41.5626x41.5094x0.7	26.46	1593.34	0.017	0.24	5687.00	0.000
L51	18.5 - 15 (51)	TP42.3075x41.5626x0.6875	26.51	1574.88	0.017	0.24	5603.45	0.000
L52	15 - 14.75 (52)	TP42.3608x42.3075x0.5875	26.56	1367.07	0.019	0.24	4988.40	0.000
L53	14.75 - 9.75 (53)	TP43.4249x42.3608x0.5813	26.60	1359.62	0.020	0.24	4949.41	0.000
L54	9.75 - 4.75 (54)	TP44.4891x43.4249x0.575	26.71	1379.28	0.019	0.24	5150.29	0.000
L55	4.75 - 1.25 (55)	TP45.234x44.4891x0.575	26.83	1414.50	0.019	0.24	5409.27	0.000
L56	1.25 - 1 (56)	TP45.2872x45.234x0.75	26.86	1860.66	0.014	0.24	7239.89	0.000
L57	1 - 0 (57)	TP45.5x45.2872x0.75	26.91	1869.56	0.014	0.24	7257.22	0.000

**APPENDIX B**  
**BASE LEVEL DRAWING**





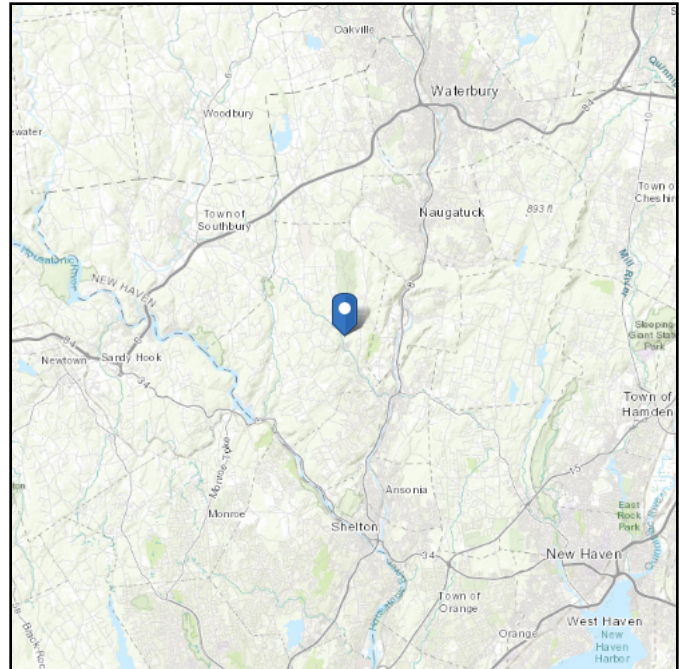
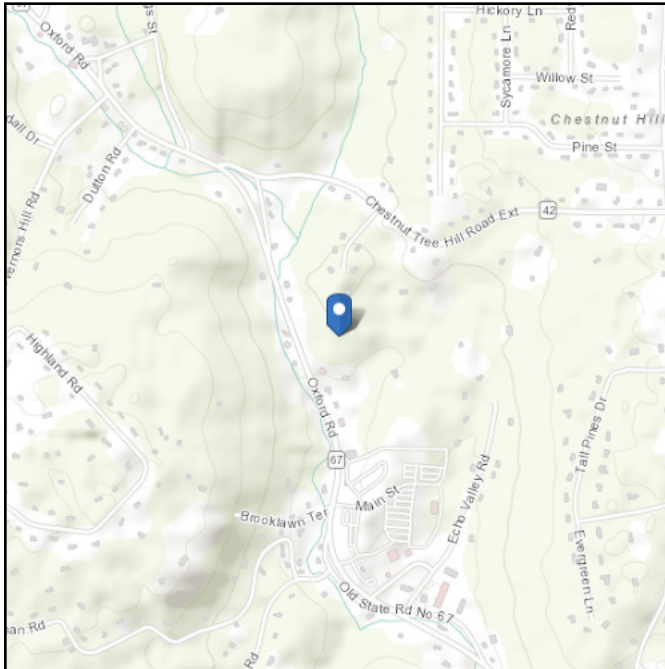
**APPENDIX C**  
**ADDITIONAL CALCULATIONS**

# ASCE 7 Hazards Report

**Address:**  
No Address at This Location

**Standard:** ASCE/SEI 7-16  
**Risk Category:** II  
**Soil Class:** D - Default (see Section 11.4.3)

**Elevation:** 372.75 ft (NAVD 88)  
**Latitude:** 41.427992  
**Longitude:** -73.108542



## Wind

### Results:

Wind Speed	118 Vmph
10-year MRI	75 Vmph
25-year MRI	84 Vmph
50-year MRI	90 Vmph
100-year MRI	97 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2  
Date Accessed: Thu Jun 23 2022

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

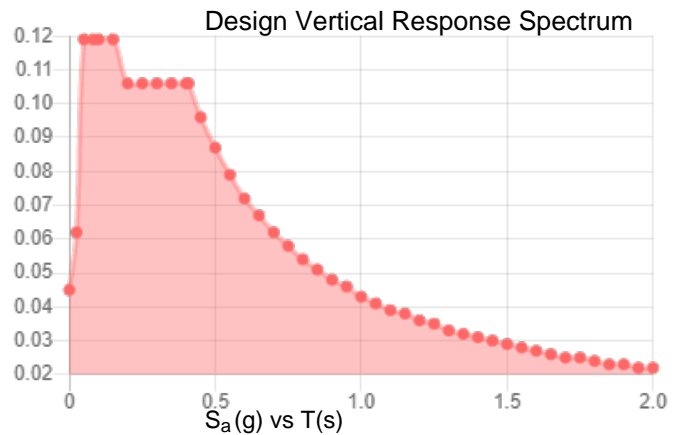
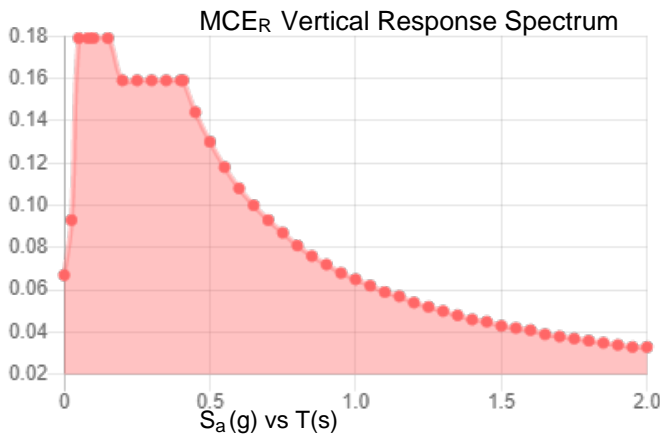
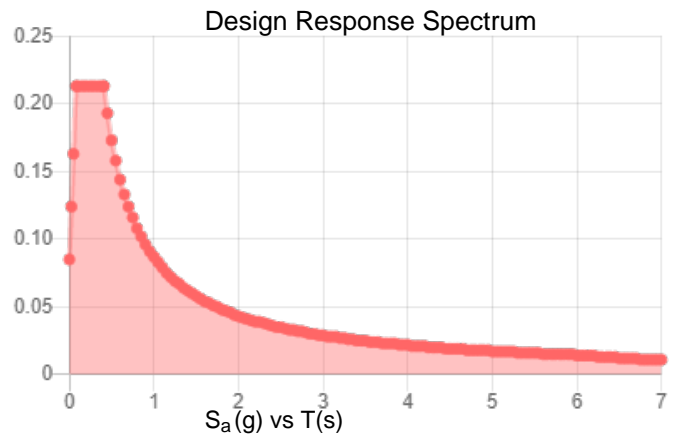
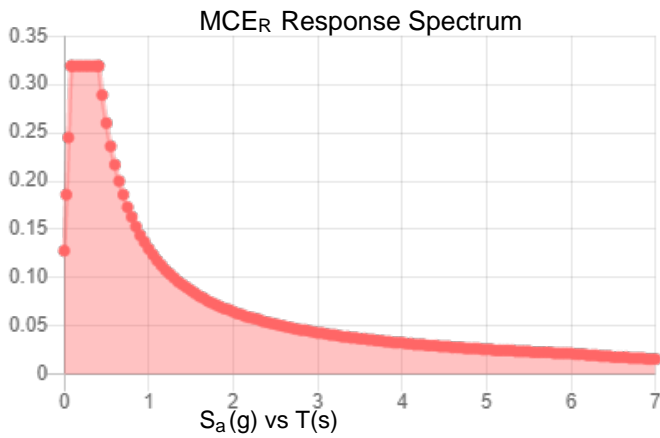
Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

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

**Results:**

$S_s$ :	0.199	$S_{D1}$ :	0.087
$S_1$ :	0.054	$T_L$ :	6
$F_a$ :	1.6	PGA :	0.111
$F_v$ :	2.4	PGA <sub>M</sub> :	0.176
$S_{MS}$ :	0.319	$F_{PGA}$ :	1.577
$S_{M1}$ :	0.13	$I_e$ :	1
$S_{DS}$ :	0.213	$C_v$ :	0.7

**Seismic Design Category** B



**Data Accessed:** Thu Jun 23 2022

**Date Source:**

**USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.**

## Ice

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**Results:**

Ice Thickness: 1.00 in.  
Concurrent Temperature: 15 F  
Gust Speed 50 mph

**Data Source:** Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8

**Date Accessed:** Thu Jun 23 2022

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

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

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**Pole Geometry**

	Pole Height Above Base (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Bend Radius (in)	Pole Material
1	150	26.58	3.17	18	15	20.74	0.1875	Auto	A572-65
2	126.59	40.63	4.08	18	19.68	28.32	0.25	Auto	A572-65
3	90.04	47.63	5.17	18	26.95	37.1	0.3125	Auto	A572-65
4	47.58	47.58	0	18	35.37	45.5	0.375	Auto	A572-65

**Reinforcement Configuration**

	Bottom Effective Elevation (ft)	Top Effective Elevation (ft)	Type	Model	Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	44.17	72.17	plate	Bar #1	3		x						x						x				
2	72.17	101.92	plate	Bar #2	3		x						x						x				
3	101.92	105.25	plate	Bar #3	3		x						x						x				
4	47.25	74.75	channel	MP3-03 (1.1875in)	3						x						x						x
5	0	1.25	plate	(TS) 1.25x6.00	2	c																	x
6	1.25	18.75	channel	MP3-05 (1.1875in)	1		x																
7	18.75	46.25	channel	MP3-05 (1.1875in)	1				x														
8	1.25	31.25	channel	MP3-05 (1.1875in)	2										x							x	
9	31.25	46.25	channel	MP3-05 (1.1875in)	2										x							x	
10	46.25	75	channel	MP3-03 (1.1875in)	3				x						x							x	
11	77.5	101.25	channel	MP3-03 (1.1875in)	3				x						x							x	
12	101.25	115	channel	MP3-03 (1.1875in)	3				x						x							x	
13	0	1.25	plate	(ARB) 1.25x9.00	3						c						1						c
14	1.25	32.75	plate	CCI-AFP-065125	1							x											
15	1.25	32.75	plate	CCI-AFP-065125 (Mod)	1	x																	
16	15	32.75	plate	CCI-CFP-065125	1														x				
17	32.75	68.75	plate	CCI-AFP-060100	3	x						x							x				
18	68.75	100.25	plate	CCI-SFP-040075	3	x						x							x				
19	100.25	120.25	plate	CCI-SFP-040075	3	x						x							x				
20	0	1.25	plate	(ARB) 1.25x9.00 (2)	1												-1						
21	75	82	plate	CCI-SFP-045100	3					x						x							x
22	115.25	122.25	plate	CCI-AFP-040075	3					x						x							x
23																							

**Reinforcement Details**

	B (in)	H (in)	Gross Area (in <sup>2</sup> )	Pole Face to Centroid (in)	Bottom Termination Type	Bottom Termination Length (in)	Top Termination Type	Top Termination Length (in)	Lu (in)	Net Area (in <sup>2</sup> )	Bolt Hole Size (in)	Reinforcement Material
1	4.25	1.25	5.3125	0.625	PC 8.8 - M20 (100)	21	PC 8.8 - M20 (100)	21.000	21.000	3.750	1.1875	A572-65
2	3.875	1.25	4.84375	0.625	PC 8.8 - M20 (100)	21	PC 8.8 - M20 (100)	18.000	21.000	3.281	1.1875	A572-65
3	3.375	1.25	4.21875	0.625	PC 8.8 - M20 (100)	18	PC 8.8 - M20 (100)	15.000	24.000	2.656	1.1875	A572-65
4	4.06	1.57	2.92	0.59	PC 8.8 - M20 (100)	14	PC 8.8 - M20 (100)	14.000	18.000	2.545	1.1875	A572-65
5	1.25	5.25	6.5625	3.375	Welded	0	Welded	0.000	0.750	6.563	0.0000	A572-65
6	5.33	2.09	5.65	0.79	PC 8.8 - M20 (100)	29	PC 8.8 - M20 (100)	29.000	18.000	5.025	1.1875	A572-65
7	5.33	2.09	5.65	0.79	PC 8.8 - M20 (100)	29	PC 8.8 - M20 (100)	29.000	18.000	5.025	1.1875	A572-65
8	5.33	2.09	5.65	0.79	PC 8.8 - M20 (100)	29	PC 8.8 - M20 (100)	29.000	18.000	5.025	1.1875	A572-65
9	5.33	2.09	5.65	0.79	PC 8.8 - M20 (100)	29	PC 8.8 - M20 (100)	29.000	18.000	5.025	1.1875	A572-65
10	4.06	1.57	2.92	0.59	PC 8.8 - M20 (100)	14	PC 8.8 - M20 (100)	14.000	18.000	2.545	1.1875	A572-65
11	4.06	1.57	2.92	0.59	PC 8.8 - M20 (100)	14	PC 8.8 - M20 (100)	14.000	18.000	2.545	1.1875	A572-65
12	4.06	1.57	2.92	0.59	PC 8.8 - M20 (100)	14	PC 8.8 - M20 (100)	14.000	18.000	2.545	1.1875	A572-65
13	1.25	8.25	10.3125	4.875	Welded	0	Welded	0.000	0.750	10.313	0.0000	A572-65
14	6.5	1.25	8.125	0.625	PC 8.8 - M20 (100)	42	PC 8.8 - M20 (100)	42.000	19.000	6.563	1.1875	A572-65
15	5.5	1.25	6.875	0.625	PC 8.8 - M20 (100)	42	PC 8.8 - M20 (100)	42.000	19.000	5.313	1.1875	A572-65
16	6.5	1.25	8.125	0.625	PC 8.8 - M20 (100)	42	PC 8.8 - M20 (100)	42.000	19.000	6.563	1.1875	A572-65
17	6	1	6	0.5	PC 8.8 - M20 (100)	30	PC 8.8 - M20 (100)	30.000	16.000	4.750	1.1875	A572-65
18	4	0.75	3	0.375	PC 8.8 - M20 (100)	12	PC 8.8 - M20 (100)	12.000	16.000	2.063	1.1875	A572-65
19	4	0.75	3	0.375	PC 8.8 - M20 (100)	12	PC 8.8 - M20 (100)	12.000	16.000	2.063	1.1875	A572-65
20	1.25	8.25	10.3125	4.875	Welded	0	Welded	0.000	0.750	10.313	0.0000	A572-65
21	4.5	1	4.5	0.5	PC 8.8 - M20 (100)	18	PC 8.8 - M20 (100)	18.000	20.000	3.250	1.1875	A572-65
22	4	0.75	3	0.375	PC 8.8 - M20 (100)	18	PC 8.8 - M20 (100)	18.000	16.000	2.063	1.1875	A572-65

**Connection Details for Custom Reinforcements**

Reinforcement	End	# Bolts	N or X	Bolt Spacing (in)	Edge Dist (in)	Weld Grade (ksi)	Transverse (Horiz.) Weld Type	Horiz. Weld Length (in)	Horiz. Groove Depth (in)	Horiz. Groove Angle (deg)	Horiz. Fillet Size (in)	Vertical Weld Length (in)	Vertical Fillet Size (in)	Rev H Connection Capacity (kip)
BAR #1	Top	7	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	7	N	3	3	-	-	-	-	-	-	-	-	-
BAR #2	Top	6	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	7	N	3	3	-	-	-	-	-	-	-	-	-
BAR #3	Top	5	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	6	N	3	3	-	-	-	-	-	-	-	-	-
(TS) 1.25x6.00	Top	0	-	0	0	80	None	-	-	-	-	24	0.375	-
	Bottom	0	-	0	0	80	PJP Groove	10.5	0.625	45	0.625	-	-	-
(ARB) 1.25x9.00	Top	0	-	0	0	80	None	-	-	-	-	36	0.375	-
	Bottom	0	-	0	0	80	CJP Groove	16.5	0.625	45	0.625	-	-	-
CCI-AFP-065125 (Mod)	Top	14	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	14	N	3	3	-	-	-	-	-	-	-	-	-
CCI-CFP-065125	Top	14	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	14	N	3	3	-	-	-	-	-	-	-	-	-
(ARB) 1.25x9.00 (2)	Top	0	-	0	0	80	None	-	-	-	-	36	0.375	-
	Bottom	0	-	0	0	80	CJP Groove	16.5	0.625	45	0.625	-	-	-

# TNX Geometry Input

Increment (ft):  [Export to TNX](#)

	Section Height (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Tapered Pole Grade	Weight Multiplier
1	150 - 145	5		18	15.000	16.080	0.1875	A572-65	1.000
2	145 - 140	5		18	16.080	17.160	0.1875	A572-65	1.000
3	140 - 135	5		18	17.160	18.239	0.1875	A572-65	1.000
4	135 - 130	5		18	18.239	19.319	0.1875	A572-65	1.000
5	130 - 126.59	6.58	3.17	18	19.319	20.740	0.1875	A572-65	1.000
6	126.59 - 122.25	4.34		18	19.680	20.603	0.25	A572-65	1.000
7	122.25 - 122	0.25		18	20.603	20.656	0.4125	A572-65	0.950
8	122 - 120.25	1.75		18	20.656	21.029	0.4125	A572-65	0.944
9	120.25 - 120	0.25		18	21.029	21.082	0.575	A572-65	0.923
10	120 - 115.25	4.75		18	21.082	22.092	0.5625	A572-65	0.919
11	115.25 - 115	0.25		18	22.092	22.145	0.4	A572-65	0.955
12	115 - 114.75	0.25		18	22.145	22.198	0.55	A572-65	0.931
13	114.75 - 109.75	5		18	22.198	23.261	0.5375	A572-65	0.929
14	109.75 - 105.25	4.5		18	23.261	24.218	0.525	A572-65	0.932
15	105.25 - 105	0.25		18	24.218	24.271	0.7375	A572-65	0.898
16	105 - 101.92	3.08		18	24.271	24.926	0.725	A572-65	0.898
17	101.92 - 101.67	0.25		18	24.926	24.979	0.75	A572-65	0.900
18	101.67 - 101.25	0.42		18	24.979	25.069	0.75	A572-65	0.898
19	101.25 - 101	0.25		18	25.069	25.122	0.75	A572-65	0.897
20	101 - 100.25	0.75		18	25.122	25.281	0.75	A572-65	0.893
21	100.25 - 100	0.25		18	25.281	25.335	0.7375	A572-65	0.907
22	100 - 95	5		18	25.335	26.398	0.7125	A572-65	0.913
23	95 - 90.04	9.04	4.08	18	26.398	28.320	0.7	A572-65	0.906
24	90.04 - 85.04	5		18	26.952	28.018	0.75	A572-65	0.921
25	85.04 - 82	3.04		18	28.018	28.665	0.7375	A572-65	0.924
26	82 - 81.75	0.25		18	28.665	28.719	0.925	A572-65	0.906
27	81.75 - 77.5	4.25		18	28.719	29.624	0.9125	A572-65	0.900
28	77.5 - 77.25	0.25		18	29.624	29.677	0.7875	A572-65	0.916
29	77.25 - 75	2.25		18	29.677	30.157	0.775	A572-65	0.922
30	75 - 74.75	0.25		18	30.157	30.210	0.7125	A572-65	0.929
31	74.75 - 74.5	0.25		18	30.210	30.263	0.825	A572-65	0.918
32	74.5 - 72.17	2.33		18	30.263	30.760	0.8125	A572-65	0.923
33	72.17 - 71.92	0.25		18	30.760	30.813	0.8375	A572-65	0.913
34	71.92 - 68.75	3.17		18	30.813	31.488	0.8125	A572-65	0.928
35	68.75 - 68.5	0.25		18	31.488	31.542	0.9375	A572-65	0.905
36	68.5 - 63.5	5		18	31.542	32.607	0.9125	A572-65	0.910
37	63.5 - 58.5	5		18	32.607	33.672	0.8875	A572-65	0.915
38	58.5 - 53.5	5		18	33.672	34.737	0.8625	A572-65	0.923
39	53.5 - 48.5	5		18	34.737	35.803	0.8375	A572-65	0.932
40	48.5 - 47.58	6.09	5.17	18	35.803	37.100	0.8375	A572-65	0.929
41	47.58 - 41.41	6.17		18	35.374	36.687	0.725	A572-65	0.945
42	41.41 - 36.41	5		18	36.687	37.751	0.7125	A572-65	0.948
43	36.41 - 32.75	3.66		18	37.751	38.530	0.7	A572-65	0.956
44	32.75 - 32.5	0.25		18	38.530	38.583	0.75	A572-65	0.950
45	32.5 - 31.25	1.25		18	38.583	38.849	0.75	A572-65	0.947
46	31.25 - 31	0.25		18	38.849	38.902	0.7375	A572-65	0.962
47	31 - 26	5		18	38.902	39.966	0.725	A572-65	0.966
48	26 - 21	5		18	39.966	41.031	0.725	A572-65	0.954
49	21 - 18.75	2.25		18	41.031	41.509	0.7125	A572-65	0.965
50	18.75 - 18.5	0.25		18	41.509	41.563	0.7	A572-65	0.981
51	18.5 - 15	3.5		18	41.563	42.308	0.6875	A572-65	0.991
52	15 - 14.75	0.25		18	42.308	42.361	0.5875	A572-65	1.052
53	14.75 - 9.75	5		18	42.361	43.425	0.58125	A572-65	1.052
54	9.75 - 4.75	5		18	43.425	44.489	0.575	A572-65	1.054
55	4.75 - 1.25	3.5		18	44.489	45.234	0.575	A572-65	1.047
56	1.25 - 1	0.25		18	45.234	45.287	0.75	A572-65	1.017
57	1 - 0	1		18	45.287	45.500	0.75	A572-65	1.015



# TNX Section Forces

Increment (ft):		TNX Output		
5				
	Section Height (ft)	P <sub>u</sub>	M <sub>ux</sub> (kip-ft)	V <sub>u</sub> (K)
1	150 - 145	3.41	34.03	5.16
2	145 - 140	3.65	60.35	5.37
3	140 - 135	7.53	98.79	9.81
4	135 - 130	7.89	148.31	10.01
5	130 - 126.59	11.19	190.24	14.82
6	126.59 - 122.25	11.78	254.99	15.02
7	122.25 - 122	11.83	258.74	15.03
8	122 - 120.25	12.07	285.11	15.12
9	120.25 - 120	12.12	288.89	15.12
10	120 - 115.25	16.51	367.57	18.95
11	115.25 - 115	16.55	372.31	18.96
12	115 - 114.75	16.60	377.05	18.97
13	114.75 - 109.75	17.56	472.51	19.22
14	109.75 - 105.25	21.50	563.96	22.01
15	105.25 - 105	21.57	569.46	22.01
16	105 - 101.92	22.34	637.51	22.19
17	101.92 - 101.67	22.41	643.06	22.20
18	101.67 - 101.25	22.52	652.39	22.22
19	101.25 - 101	22.59	657.94	22.23
20	101 - 100.25	22.78	674.63	22.28
21	100.25 - 100	22.85	680.20	22.29
22	100 - 95	24.17	792.29	22.56
23	95 - 90.04	25.51	904.76	22.81
24	90.04 - 85.04	27.85	1019.73	23.17
25	85.04 - 82	28.75	1090.38	23.32
26	82 - 81.75	28.85	1096.21	23.33
27	81.75 - 77.5	30.34	1195.86	23.58
28	77.5 - 77.25	30.43	1201.76	23.58
29	77.25 - 75	31.14	1254.96	23.81
30	75 - 74.75	31.30	1260.92	23.88
31	74.75 - 74.5	31.39	1266.89	23.89
32	74.5 - 72.17	32.18	1322.69	24.03
33	72.17 - 71.92	32.28	1328.69	24.03
34	71.92 - 68.75	33.38	1405.13	24.21
35	68.75 - 68.5	33.48	1411.18	24.22
36	68.5 - 63.5	35.41	1532.96	24.51
37	63.5 - 58.5	37.37	1656.13	24.78
38	58.5 - 53.5	39.36	1780.62	25.04
39	53.5 - 48.5	41.37	1906.37	25.29
40	48.5 - 47.58	41.75	1929.64	25.33
41	47.58 - 41.41	45.83	2087.16	25.73
42	41.41 - 36.41	47.72	2216.15	25.90
43	36.41 - 32.75	49.11	2311.11	26.03
44	32.75 - 32.5	49.23	2317.61	26.02
45	32.5 - 31.25	49.72	2350.15	26.08
46	31.25 - 31	49.83	2356.67	26.07
47	31 - 26	51.87	2487.37	26.24
48	26 - 21	53.93	2618.85	26.39
49	21 - 18.75	54.87	2678.27	26.46
50	18.75 - 18.5	54.98	2684.88	26.46
51	18.5 - 15	56.45	2777.64	26.58
52	15 - 14.75	56.55	2784.28	26.56
53	14.75 - 9.75	58.52	2917.35	26.69
54	9.75 - 4.75	60.53	3050.96	26.80
55	4.75 - 1.25	61.94	3144.81	26.88
56	1.25 - 1	62.08	3151.52	26.86
57	1 - 0	62.57	3178.40	26.91



# Analysis Results

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
150 - 145	Pole	TP16.08x15x0.1875	Pole	14.8%	Pass
145 - 140	Pole	TP17.16x16.08x0.1875	Pole	22.7%	Pass
140 - 135	Pole	TP18.239x17.16x0.1875	Pole	33.3%	Pass
135 - 130	Pole	TP19.319x18.239x0.1875	Pole	44.6%	Pass
130 - 126.59	Pole	TP20.74x19.319x0.1875	Pole	54.0%	Pass
126.59 - 122.25	Pole	TP20.603x19.68x0.25	Pole	50.0%	Pass
122.25 - 122	Pole + Reinf.	TP20.656x20.603x0.4125	Reinf. 22 Tension Rupture	56.8%	Pass
122 - 120.25	Pole + Reinf.	TP21.029x20.656x0.4125	Reinf. 22 Tension Rupture	60.7%	Pass
120.25 - 120	Pole + Reinf.	TP21.082x21.029x0.575	Reinf. 22 Tension Rupture	44.6%	Pass
120 - 115.25	Pole + Reinf.	TP22.092x21.082x0.5625	Reinf. 22 Tension Rupture	53.1%	Pass
115.25 - 115	Pole + Reinf.	TP22.145x22.092x0.4	Reinf. 19 Tension Rupture	72.9%	Pass
115 - 114.75	Pole + Reinf.	TP22.198x22.145x0.55	Reinf. 19 Tension Rupture	54.0%	Pass
114.75 - 109.75	Pole + Reinf.	TP23.261x22.198x0.5375	Reinf. 19 Tension Rupture	63.0%	Pass
109.75 - 105.25	Pole + Reinf.	TP24.218x23.261x0.525	Reinf. 19 Tension Rupture	70.9%	Pass
105.25 - 105	Pole + Reinf.	TP24.271x24.218x0.7375	Reinf. 3 Tension Rupture	58.0%	Pass
105 - 101.92	Pole + Reinf.	TP24.926x24.271x0.725	Reinf. 3 Tension Rupture	62.5%	Pass
101.92 - 101.67	Pole + Reinf.	TP24.979x24.926x0.75	Reinf. 2 Tension Rupture	56.3%	Pass
101.67 - 101.25	Pole + Reinf.	TP25.069x24.979x0.75	Reinf. 2 Tension Rupture	56.8%	Pass
101.25 - 101	Pole + Reinf.	TP25.122x25.069x0.75	Reinf. 2 Tension Rupture	57.1%	Pass
101 - 100.25	Pole + Reinf.	TP25.281x25.122x0.75	Reinf. 2 Tension Rupture	58.1%	Pass
100.25 - 100	Pole + Reinf.	TP25.335x25.281x0.7375	Reinf. 2 Tension Rupture	58.4%	Pass
100 - 95	Pole + Reinf.	TP26.398x25.335x0.7125	Reinf. 2 Tension Rupture	64.2%	Pass
95 - 90.04	Pole + Reinf.	TP28.32x26.398x0.7	Reinf. 2 Tension Rupture	69.5%	Pass
90.04 - 85.04	Pole + Reinf.	TP28.018x26.952x0.75	Reinf. 2 Tension Rupture	69.6%	Pass
85.04 - 82	Pole + Reinf.	TP28.665x28.018x0.7375	Reinf. 2 Tension Rupture	72.0%	Pass
82 - 81.75	Pole + Reinf.	TP28.719x28.665x0.925	Reinf. 2 Tension Rupture	58.6%	Pass
81.75 - 77.5	Pole + Reinf.	TP29.624x28.719x0.9125	Reinf. 2 Tension Rupture	61.3%	Pass
77.5 - 77.25	Pole + Reinf.	TP29.677x29.624x0.7875	Reinf. 2 Tension Rupture	69.9%	Pass
77.25 - 75	Pole + Reinf.	TP30.157x29.677x0.775	Reinf. 2 Tension Rupture	71.4%	Pass
75 - 74.75	Pole + Reinf.	TP30.21x30.157x0.7125	Reinf. 2 Tension Rupture	77.1%	Pass
74.75 - 74.5	Pole + Reinf.	TP30.263x30.21x0.825	Reinf. 2 Tension Rupture	67.3%	Pass
74.5 - 72.17	Pole + Reinf.	TP30.76x30.263x0.8125	Reinf. 2 Tension Rupture	68.7%	Pass
72.17 - 71.92	Pole + Reinf.	TP30.813x30.76x0.8375	Reinf. 18 Tension Rupture	65.5%	Pass
71.92 - 68.75	Pole + Reinf.	TP31.488x30.813x0.8125	Reinf. 18 Tension Rupture	67.2%	Pass
68.75 - 68.5	Pole + Reinf.	TP31.542x31.488x0.9375	Reinf. 1 Tension Rupture	58.9%	Pass
68.5 - 63.5	Pole + Reinf.	TP32.607x31.542x0.9125	Reinf. 1 Tension Rupture	61.2%	Pass
63.5 - 58.5	Pole + Reinf.	TP33.672x32.607x0.8875	Reinf. 1 Tension Rupture	63.3%	Pass
58.5 - 53.5	Pole + Reinf.	TP34.737x33.672x0.8625	Reinf. 1 Tension Rupture	65.2%	Pass
53.5 - 48.5	Pole + Reinf.	TP35.803x34.737x0.8375	Reinf. 1 Tension Rupture	67.0%	Pass
48.5 - 47.58	Pole + Reinf.	TP37.1x35.803x0.8375	Reinf. 1 Tension Rupture	67.3%	Pass
47.58 - 41.41	Pole + Reinf.	TP36.687x35.374x0.725	Reinf. 17 Tension Rupture	70.9%	Pass
41.41 - 36.41	Pole + Reinf.	TP37.751x36.687x0.7125	Reinf. 17 Tension Rupture	72.1%	Pass
36.41 - 32.75	Pole + Reinf.	TP38.53x37.751x0.7	Reinf. 17 Tension Rupture	72.8%	Pass
32.75 - 32.5	Pole + Reinf.	TP38.583x38.53x0.75	Reinf. 15 Tension Rupture	72.3%	Pass
32.5 - 31.25	Pole + Reinf.	TP38.849x38.583x0.75	Reinf. 15 Tension Rupture	72.6%	Pass
31.25 - 31	Pole + Reinf.	TP38.902x38.849x0.7375	Reinf. 15 Tension Rupture	72.6%	Pass
31 - 26	Pole + Reinf.	TP39.966x38.902x0.725	Reinf. 15 Tension Rupture	73.5%	Pass
26 - 21	Pole + Reinf.	TP41.031x39.966x0.725	Reinf. 15 Tension Rupture	74.4%	Pass
21 - 18.75	Pole + Reinf.	TP41.509x41.031x0.7125	Reinf. 15 Tension Rupture	74.7%	Pass
18.75 - 18.5	Pole + Reinf.	TP41.563x41.509x0.7	Reinf. 14 Tension Rupture	74.4%	Pass
18.5 - 15	Pole + Reinf.	TP42.308x41.563x0.6875	Reinf. 14 Tension Rupture	74.9%	Pass
15 - 14.75	Pole + Reinf.	TP42.361x42.308x0.5875	Reinf. 8 Tension Rupture	77.9%	Pass
14.75 - 9.75	Pole + Reinf.	TP43.425x42.361x0.5813	Reinf. 8 Tension Rupture	78.3%	Pass
9.75 - 4.75	Pole + Reinf.	TP44.489x43.425x0.575	Reinf. 8 Tension Rupture	78.5%	Pass
4.75 - 1.25	Pole + Reinf.	TP45.234x44.489x0.575	Reinf. 8 Tension Rupture	78.7%	Pass
1.25 - 1	Pole + Reinf.	TP45.287x45.234x0.75	Reinf. 13 Compression	66.7%	Pass
1 - 0	Pole + Reinf.	TP45.5x45.287x0.75	Reinf. 13 Compression	66.8%	Pass
				Summary	
			Pole	60.4%	Pass
			Reinforcement	78.7%	Pass
			Overall	78.7%	Pass



# Monopole Base Plate Connection

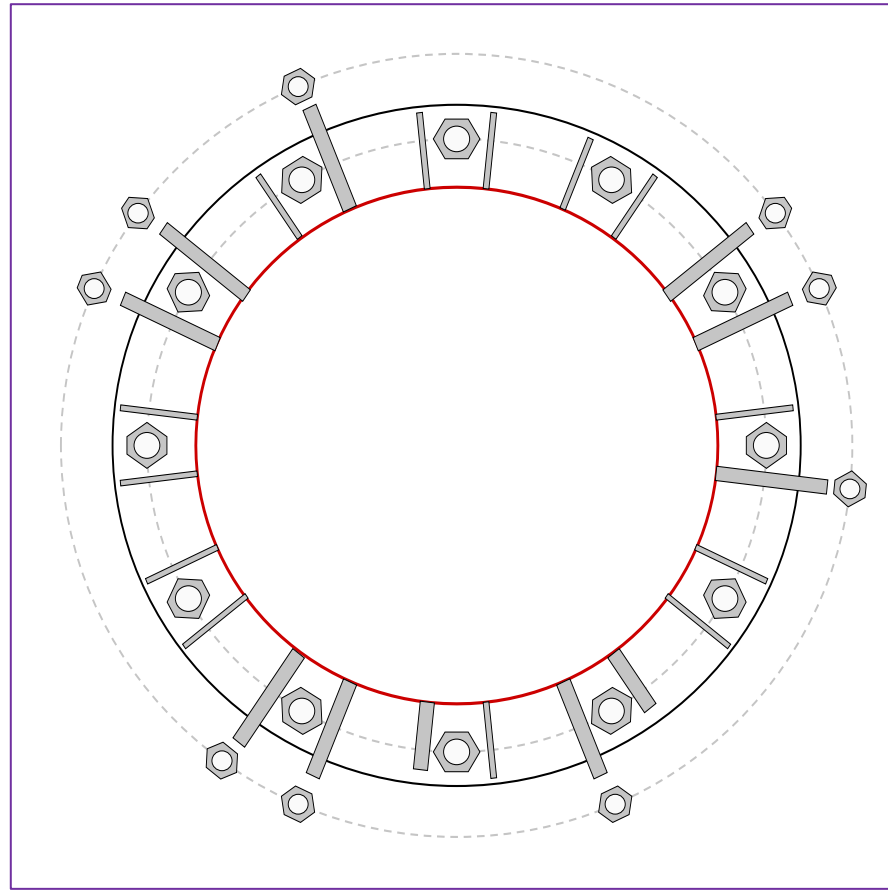


Site Info	
BU #	876362
Site Name	Oxford / Fritz Property
Order #	621867 Rev. 0

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

Applied Loads	
Moment (kip-ft)	3178.00
Axial Force (kips)	63.00
Shear Force (kips)	27.00

\*TIA-222-H Section 15.5 Applied



Connection Properties	Analysis Results
<b>Anchor Rod Data</b> GROUP 1: (12) 2-1/4" $\phi$ bolts (A615-75 N; $F_y=75$ ksi, $F_u=100$ ksi) on 54" BC GROUP 2: (3) 1-3/4" $\phi$ bolts (A193 Gr. B7 N; $F_y=105$ ksi, $F_u=125$ ksi) on 69" BC GROUP 3: (3) 1-3/4" $\phi$ bolts (A193 Gr. B7 N; $F_y=105$ ksi, $F_u=125$ ksi) on 69" BC <i>pos. (deg): 36.4, 156.4, 293.6</i>  GROUP 4: (3) 1-3/4" $\phi$ bolts (A193 Gr. B7 N; $F_y=105$ ksi, $F_u=125$ ksi) on 69" BC <i>pos. (deg): 23.6, 143.6, 246.4</i>	<b>Anchor Rod Summary</b> <i>(units of kips, kip-in)</i> GROUP 1: $P_{u_c} = 147.2$ $\phi P_{n_c} = 268.39$ <b>Stress Rating</b> $V_u = 2.25$ $\phi V_n = 120.77$ <b>54.9%</b> $M_u = 3.47$ $\phi M_n = 128.14$ <b>Pass</b>  GROUP 2: $P_{u_t} = 103.91$ $\phi P_{n_t} = 178.13$ <b>Stress Rating</b> $V_u = 0$ $\phi V_n = 112.75$ <b>55.6%</b> $M_u = n/a$ $\phi M_n = n/a$ <b>Pass</b>  GROUP 3: $P_{u_t} = 104.95$ $\phi P_{n_t} = 178.13$ <b>Stress Rating</b> $V_u = 0$ $\phi V_n = 112.75$ <b>56.1%</b> $M_u = 0$ $\phi M_n = 84.41$ <b>Pass</b>  GROUP 4: $P_{u_t} = 104.95$ $\phi P_{n_t} = 178.13$ <b>Stress Rating</b> $V_u = 0$ $\phi V_n = 112.75$ <b>56.1%</b> $M_u = 0$ $\phi M_n = 84.41$ <b>Pass</b>
<b>Base Plate Data</b> 60" OD x 1.75" Plate (A871-60; $F_y=60$ ksi, $F_u=75$ ksi)	<b>Base Plate Summary</b> Max Stress (ksi): 7.01 (Shear) Allowable Stress (ksi): 33.75 Stress Rating: <b>19.8%</b> <b>Pass</b>
<b>Stiffener Data</b> Group 1: (13) 13.75"H x 6.75"W x 0.5"T, Notch: 0.75" plate: $F_y=50$ ksi ; weld: $F_y=80$ ksi horiz. weld: 0.25" groove, 45° dbl bevel, 0.375" fillet vert. weld: 0.375" fillet  Group 2: (3) 54"H x 9.75"W x 1.25"T, Notch: 0.75" plate: $F_y=65$ ksi ; weld: $F_y=80$ ksi horiz. weld: 0.625" groove, 45° dbl bevel, 0.625" fillet vert. weld: 0.375" fillet  Group 3: (2) 54"H x 6"W x 1.25"T, Notch: 0.75" plate: $F_y=65$ ksi ; weld: $F_y=80$ ksi horiz. weld: 0.625" groove, 45° dbl bevel, 0.625" fillet vert. weld: 0.375" fillet  Group 4: (3) 69"H x 9"W x 1.25"T, Notch: 0.75" plate: $F_y=65$ ksi ; weld: $F_y=80$ ksi horiz. weld: 0.625" groove, 45° dbl bevel, 0.625" fillet vert. weld: 0.375" fillet  Group 5: (3) 51"H x 9"W x 1.25"T, Notch: 0.75" plate: $F_y=65$ ksi ; weld: $F_y=80$ ksi horiz. weld: 0.625" groove, 45° dbl bevel, 0.625" fillet vert. weld: 0.375" fillet	<b>Stiffener Summary</b> Horizontal Weld: <b>25.1%</b> <b>Pass</b> Vertical Weld: <b>16.2%</b> <b>Pass</b> Plate Flexure+Shear: <b>11.2%</b> <b>Pass</b> Plate Tension+Shear: <b>25.8%</b> <b>Pass</b> Plate Compression: <b>35.7%</b> <b>Pass</b>
<b>Pole Data</b> 45.5" x 0.375" 18-sided pole (A572-65; $F_y=65$ ksi, $F_u=80$ ksi)	<b>Pole Summary</b> Punching Shear: <b>6.5%</b> <b>Pass</b>

# CClplate

Elevation (ft) 0 (Base)

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

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

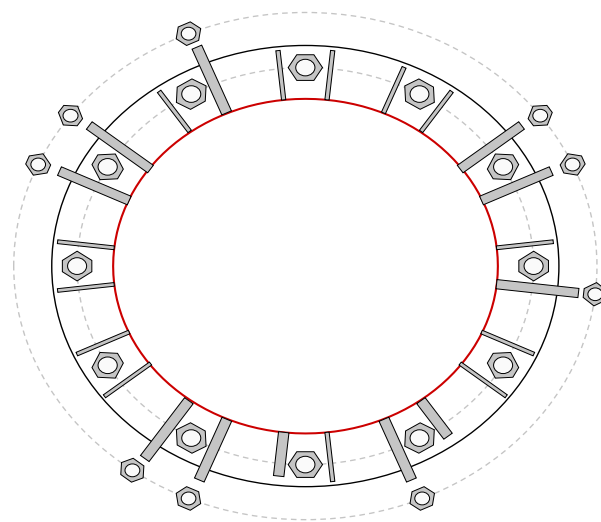
## Custom Bolt Connection

Bolt	Bolt Group ID	Location (deg.)	Diameter (in)	Material	Bolt Circle (in)	Eta Factor, $\eta$	$I_{pr}$ (in)	Thread Type	Area Override, in <sup>2</sup>	Tension Only
1	1	0	2.25	A615-75	54	0.5	2.375	N-Included		No
2	1	30	2.25	A615-75	54	0.5	2.375	N-Included		No
3	1	60	2.25	A615-75	54	0.5	2.375	N-Included		No
4	1	90	2.25	A615-75	54	0.5	2.375	N-Included		No
5	1	120	2.25	A615-75	54	0.5	2.375	N-Included		No
6	1	150	2.25	A615-75	54	0.5	2.375	N-Included		No
7	1	180	2.25	A615-75	54	0.5	2.375	N-Included		No
8	1	210	2.25	A615-75	54	0.5	2.375	N-Included		No
9	1	240	2.25	A615-75	54	0.5	2.375	N-Included		No
10	1	270	2.25	A615-75	54	0.5	2.375	N-Included		No
11	1	300	2.25	A615-75	54	0.5	2.375	N-Included		No
12	1	330	2.25	A615-75	54	0.5	2.375	N-Included		No
13	2	353.623658	1.75	A193 Gr. B7	69	0.5	5.125	N-Included		No
14	2	113.623658	1.75	A193 Gr. B7	69	0.5	5.125	N-Included		No
15	2	233.623658	1.75	A193 Gr. B7	69	0.5	5.125	N-Included		No
16	3	36.3763424	1.75	A193 Gr. B7	69	0.5	10.125	N-Included		No
17	3	156.376342	1.75	A193 Gr. B7	69	0.5	10.125	N-Included		No
18	3	293.623658	1.75	A193 Gr. B7	69	0.5	10.125	N-Included		No
19	4	23.6236576	1.75	A193 Gr. B7	69	0.5	10.125	N-Included		No
20	4	143.623658	1.75	A193 Gr. B7	69	0.5	10.125	N-Included		No
21	4	246.376342	1.75	A193 Gr. B7	69	0.5	10.125	N-Included		No

## Custom Stiffener Connection

Stiffener	Stiffener Group ID	Location (deg.)	Width (in)	Height (in)	Thickness (in)	H. Notch (in)	V. Notch (in)	Grade (ksi)	Weld Type	Groove Depth (in)	Groove Angle (deg.)	H. Fillet Weld Size (in)	V. Fillet Weld Size (in)	Weld Strength (ksi)
1	1	6.3763424	6.75	13.75	0.5	0.75	0.75	50	Both	0.25	45	0.375	0.375	80
2	5	23.6236576	9	51	1.25	0.75	0.75	65	Both	0.625	45	0.625	0.375	80
3	4	36.3763424	9	69	1.25	0.75	0.75	65	Both	0.625	45	0.625	0.375	80
4	1	53.6236576	6.75	13.75	0.5	0.75	0.75	50	Both	0.25	45	0.375	0.375	80
5	1	66.3763424	6.75	13.75	0.5	0.75	0.75	50	Both	0.25	45	0.375	0.375	80
6	1	83.6236576	6.75	13.75	0.5	0.75	0.75	50	Both	0.25	45	0.375	0.375	80
7	1	96.3763424	6.75	13.75	0.5	0.75	0.75	50	Both	0.25	45	0.375	0.375	80
8	2	113.623658	9.75	54	1.25	0.75	0.75	65	Both	0.625	45	0.625	0.375	80
9	1	126.376342	6.75	13.75	0.5	0.75	0.75	50	Both	0.25	45	0.375	0.375	80
10	5	143.623658	9	51	1.25	0.75	0.75	65	Both	0.625	45	0.625	0.375	80
11	4	156.376342	9	69	1.25	0.75	0.75	65	Both	0.625	45	0.625	0.375	80
12	1	173.623658	6.75	13.75	0.5	0.75	0.75	50	Both	0.25	45	0.375	0.375	80
13	1	186.376342	6.75	13.75	0.5	0.75	0.75	50	Both	0.25	45	0.375	0.375	80
14	1	203.623658	6.75	13.75	0.5	0.75	0.75	50	Both	0.25	45	0.375	0.375	80
15	1	216.376342	6.75	13.75	0.5	0.75	0.75	50	Both	0.25	45	0.375	0.375	80
16	2	233.623658	9.75	54	1.25	0.75	0.75	65	Both	0.625	45	0.625	0.375	80
17	5	246.376342	9	51	1.25	0.75	0.75	65	Both	0.625	45	0.625	0.375	80
18	3	263.623658	6	54	1.25	0.75	0.75	65	Both	0.625	45	0.625	0.375	80
19	1	276.376342	6.75	13.75	0.5	0.75	0.75	50	Both	0.25	45	0.375	0.375	80
20	4	293.623658	9	69	1.25	0.75	0.75	65	Both	0.625	45	0.625	0.375	80
21	3	306.376342	6	54	1.25	0.75	0.75	65	Both	0.625	45	0.625	0.375	80
22	1	323.623658	6.75	13.75	0.5	0.75	0.75	50	Both	0.25	45	0.375	0.375	80
23	1	336.376342	6.75	13.75	0.5	0.75	0.75	50	Both	0.25	45	0.375	0.375	80
24	2	353.623658	9.75	54	1.25	0.75	0.75	65	Both	0.625	45	0.625	0.375	80

## Plot Graphic



# Monopole on Mat Foundation with Rock Anchors - TIA-222-H

## Site Data

Site Name:	Oxford / Fritz Property
Site Number:	BU 876362
TEP Job Number:	25611.715545

Mat and Pier Properties		
Mat Width	22.75	ft
Mat Length	22.75	ft
Mat Thickness	4.5	ft
Pier Type	Square	
Pier Width/Diam.	6.0	ft
Pier Height	1.5	ft

Soil Properties		
$q_{allow}$	30.3	ksf
FS	2.0	
Subgrade Mod.	1090	kcf
Rock Weight	160	pcf
Rock Cone Angle	45	deg

Rock Anchor Properties		
Type of Bar	Dywidag150	
Bar Size	1.25	in
Net Area	1.25	in <sup>2</sup>
Ultimate Stress, $F_u$	150.0	ksi
Yield Stress, $F_y$	120.0	ksi
Bar Diameter	1.250	in
Steel/Grout Bond <sup>1</sup>	290	psi
Grout/Rock Allow Bond	450	psi
FS	2	
Drilled Shaft Diam.	3.50	in

<sup>1</sup> Ultimate Bond Values

Factored Reactions from TNX		
Axial	63	k
Shear	27	k
Moment	3178	k-ft

Mat Foundation Results		
Bearing Stress	2.1	ksf
Bearing Capacity, $\phi q_{allow}$	45.4	ksf
% Capacity*	4.4%	Pass

Mat and Pier Structural Results		
Bending Moment	620.1	kft
Clearance	3	in
Rebar $F_y$	60	ksi
Rebar Diameter	1	in
Rebar Spacing	8.9	in
Concrete $F'_c$	4	ksi
Flexural Capacity, $\phi M_n$	5446.5	kft
% Capacity*	10.8%	Pass

Rock Anchor Steel Results		
Max Tension Force	3.3	k
Anchor Capacity, $\phi P_n$	135.0	k
% Capacity*	2.4%	Pass

Rock Anchor Pullout Results		
Req. Bond Length, $l_d$	13.2	ft
Req. Cone Height, $h$	9.6	ft
Total Req. Embedment	16.2	ft
Actual Embedment	20.5	ft

\*Rating per TIA-222-H Section 15.5



Date: **June 24, 2022**



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**Subject:** **Mount Analysis - Conditional Passing Report**

**Carrier Designation:** **T-Mobile Equipment Change-Out**  
**Site Number:** CTNH518A  
**Site Name:** CT23XC508

**Crown Castle Designation:** **BU Number:** 876362  
**Site Name:** Oxford / Fritz Property  
**JDE Job Number:** 721832  
**Order Number:** 621867 Rev. 0

**Engineering Firm Designation:** **TEP Project Number:** 25611.714159

**Site Data:** **338 Oxford Rd., Oxford, New Haven County, CT 06478**  
**Latitude 41° 25' 40.77", Longitude -73° 6' 30.75"**

**Structure Information:** **Tower Height & Type:** 150.0±ft Monopole  
**Mount Elevation:** 152.0 ft  
**Mount Width & Type:** 10.7 ft Platform w/ Support Rail Mount

Tower Engineering Professionals is pleased to submit this “**Mount Analysis - Conditional Passing Report**” to determine the structural integrity of T-Mobile’s antenna mounting system with the proposed appurtenance and equipment addition on the above-mentioned supporting tower structure. Analysis of the existing supporting tower structure is to be completed by others and therefore is not part of this analysis. Analysis of the antenna mounting system as a tie-off point for fall protection or rigging is not part of this document.

The purpose of the analysis is to determine acceptability of the mount stress level. Based on our analysis, we have determined the mount stress level to be:

**Platform w/ Support Rail Mount**

**\*Sufficient**

\*See Section 4.1 of this report for the structural modifications required in order for the mount to support the loading listed in Table 1.

This analysis utilizes an ultimate 3-second gust wind speed of 118 mph as required by the 2018 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Mount analysis prepared by: Andrew Samson, E.I. / PHX

Respectfully submitted by:

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06/24/2022

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## 1) INTRODUCTION

This is an existing, 3-sector, 10.7' Platform w/ Support Rail mount designed by EEI.

## 2) ANALYSIS CRITERIA

<b>Building Code:</b>	2018 Connecticut State Building Code
<b>TIA-222 Revision:</b>	TIA-222-H
<b>Risk Category:</b>	II
<b>Ultimate Wind Speed:</b>	118mph
<b>Exposure Category:</b>	B
<b>Topographic Factor at Base:</b>	1
<b>Ice Thickness:</b>	1.0 in
<b>Wind Speed with Ice:</b>	50 mph
<b>Seismic <math>S_s</math>:</b>	0.199
<b>Seismic <math>S_1</math>:</b>	0.054
<b>Live Loading Wind Speed:</b>	30 mph
<b>Live Loading at Mid/End-Points:</b>	250 lb
<b>Man Live Loading at Mount Pipes:</b>	500 lb

**Table 1 - Proposed Equipment Configuration**

Mount Centerline (ft)	Antenna Centerline (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Mount / Modification Details
152.0	152.0	3	Commscope	VV-65B-R1_TMO	Platform w/ Support Rail Mount
		3	Ericsson	AIR 6419 B41_TMO	
		3	RFS/Celwave	APXVAALL24_43-U-NA20_TMO	
		3	Ericsson	Radio 4460 B2/B25 B66_TMO	
		3	Ericsson	Radio 4480_TMOV2	

## 3) ANALYSIS PROCEDURE

**Table 2 - Documents Provided**

Document	Remarks	Reference	Source
Mount Manufacturer Drawings	EEI	K10004A	TEP

### 3.1) Analysis Method

RISA-3D (Version 17.0.4), a commercially available analysis software package, was used to create a three-dimensional model of the antenna mounting system and calculate member stresses for various loading cases.

A tool internally developed by TEP, using Microsoft Excel, was used to calculate wind and seismic loading on all appurtenances, dishes, and mount members for various load cases. Selected output from the analysis is included in Appendix B "Software Input Calculations".

This analysis was performed in accordance with Crown Castle's ENG-SOW-10208 *Mount Analysis (Revision E)*.



**3.2) Assumptions**

- 1) The antenna mounting system was properly fabricated, installed, and maintained in good condition in accordance with its original design, TIA Standards, and/or manufacturer’s specifications.
- 2) The configuration of antennas, mounts, and other appurtenances are as specified in Table 1 and the referenced drawings.
- 3) All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
- 4) TEP did not analyze the collar mount connection to the pole and assumes it to have sufficient structural capacity to transfer the applied forces from the mount to the tower.

This analysis may be affected if any assumptions are not valid or have been made in error. Tower Engineering Professionals should be notified to determine the effect on the structural integrity of the antenna mounting system.

**4) ANALYSIS RESULTS**

**Table 3 - Mount Component Stresses vs. Capacity (Platform w/ Support Rail Mount)<sup>3</sup>**

Notes	Component	Critical Member	Centerline (ft)	% Capacity	Pass / Fail
1	Face Horizontals	FF-H1	152.0	37.3	Pass
	Support Horizontals	PL3		20.9	Pass
	Support Rails	HRC-1		64.6	Pass
	Grating Supports	GSI2		41.6	Pass
	Mount Pipes	MP-1		38.6	Pass
2	Connection Bolts	-		25.5	Pass

<b>Structure Rating (max from all components)<sup>3</sup> =</b>	<b>64.6%</b>
---	--------------

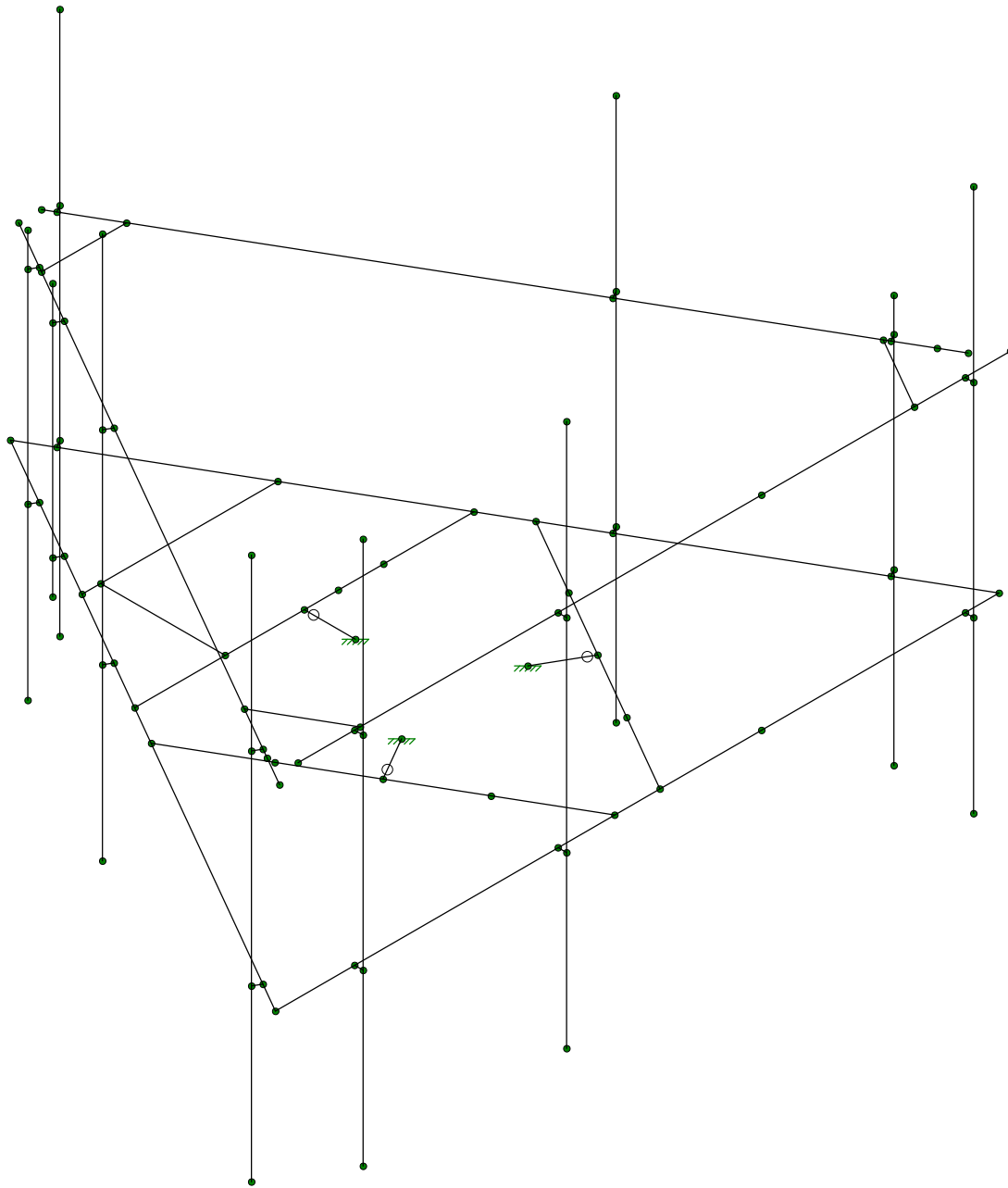
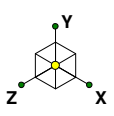
Notes:

- 1) See additional documentation in “Appendix C - Software Analysis Output” for calculations supporting the % capacity consumed.
- 2) See additional documentation in “Appendix D - Additional Calculations” for calculations supporting the % capacity listed.
- 3) Rating per TIA-222-H, Section 15.5.

**4.1) Recommendations**

- 1) The mount has sufficient capacity to carry the proposed loading configuration. In order for the results of the analysis to be considered valid, the loading modifications listed below must be completed.
  - a) Install proposed 4-ft long, P2STD (2.375” O.D. x 0.154”) mount pipe on Beta Sector to accommodate the proposed loading configuration. (1) Site Pro 1 SCX1-K Crossover plate required. See Appendix E for details.
- 2) No modifications are required at this time, provided that the above-listed changes are completed.

**APPENDIX A**  
**WIRE FRAME AND RENDERED MODELS**



Envelope Only Solution

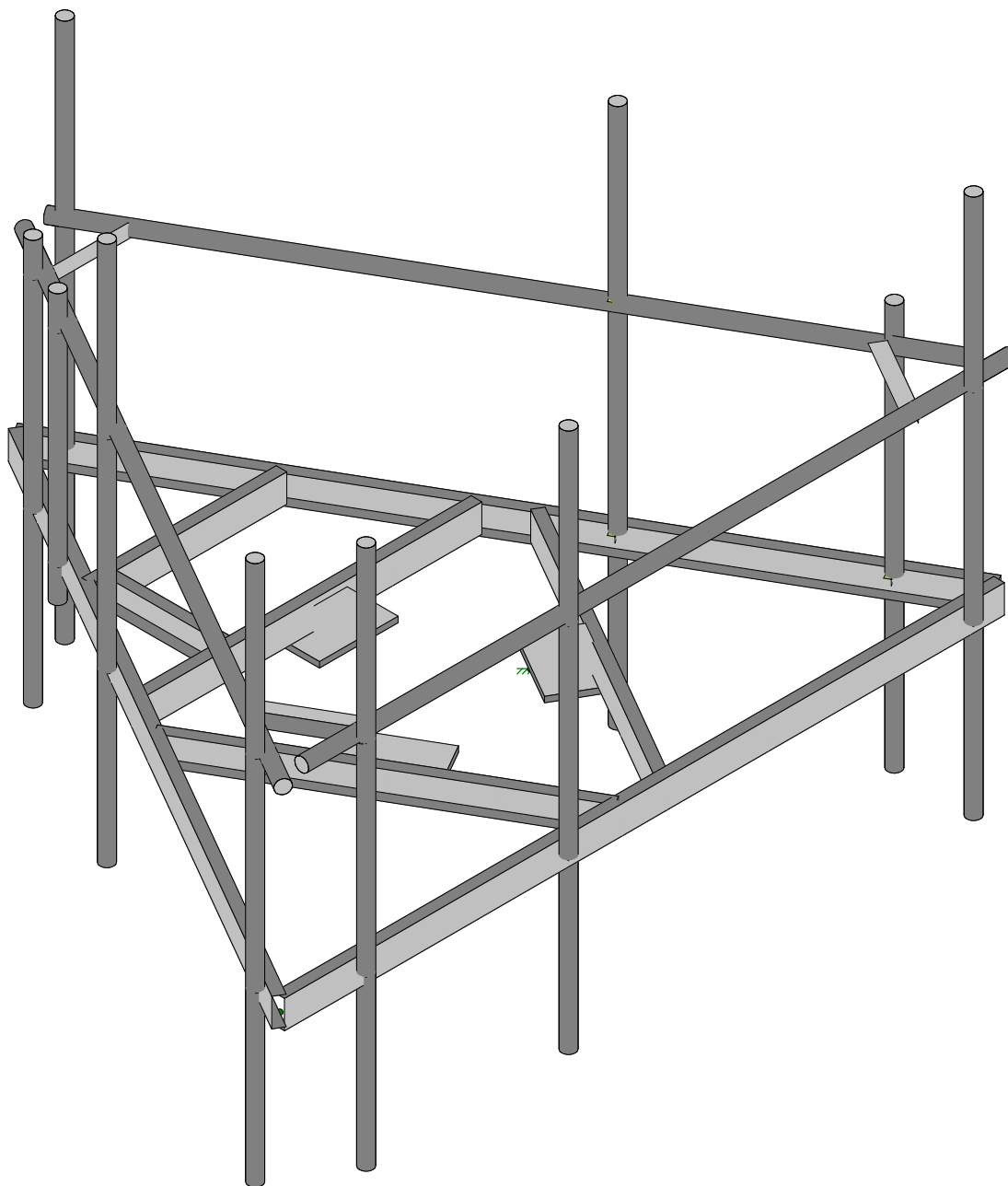
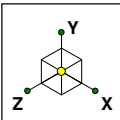
Tower Engineering Profes...  
AJS  
TEP No. 25611.714159

Oxford / Fritz Property (BU 876362)

SK - 1

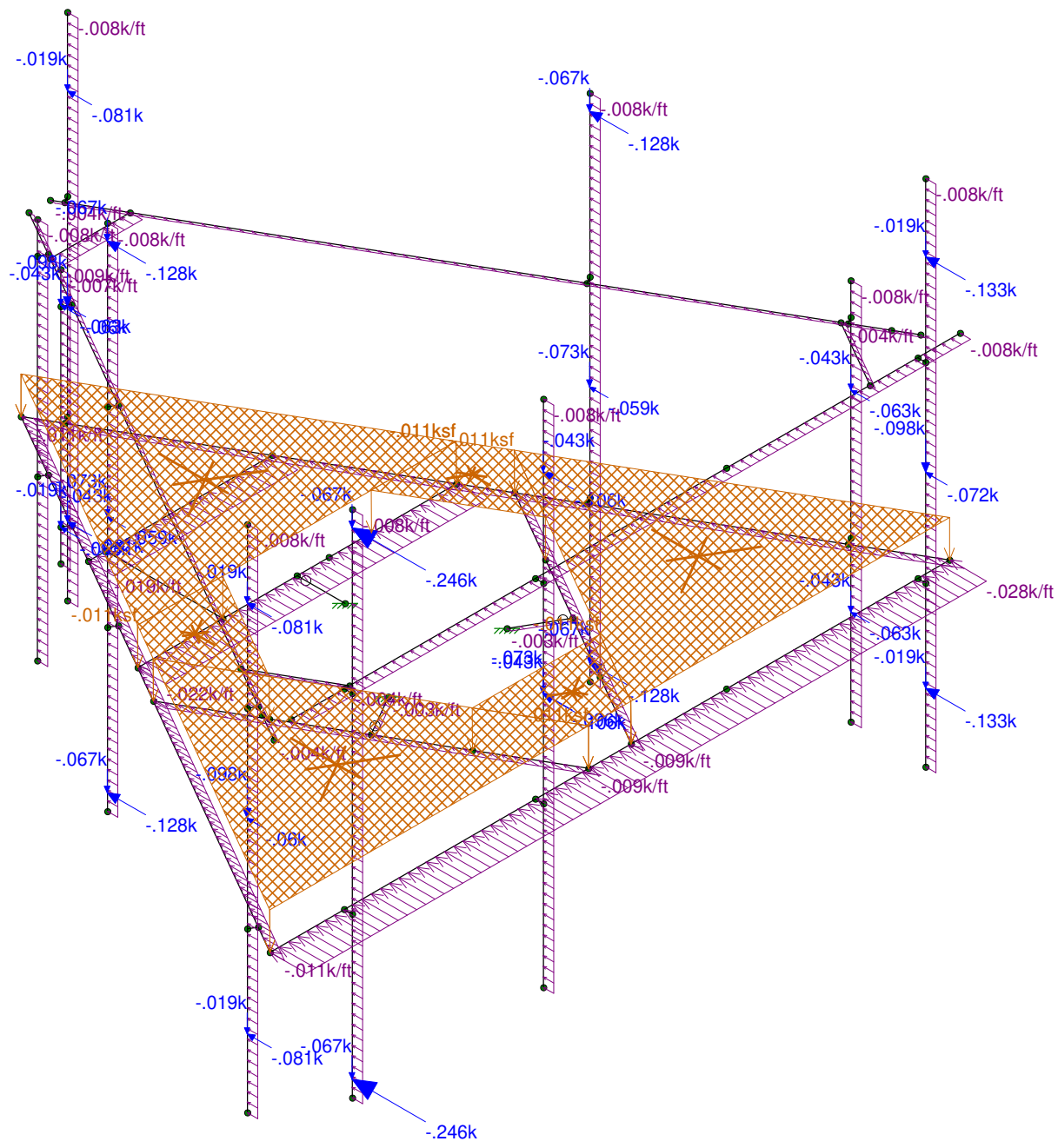
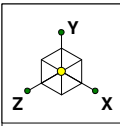
June 24, 2022 at 8:39 AM

Mount Rev H.r3d



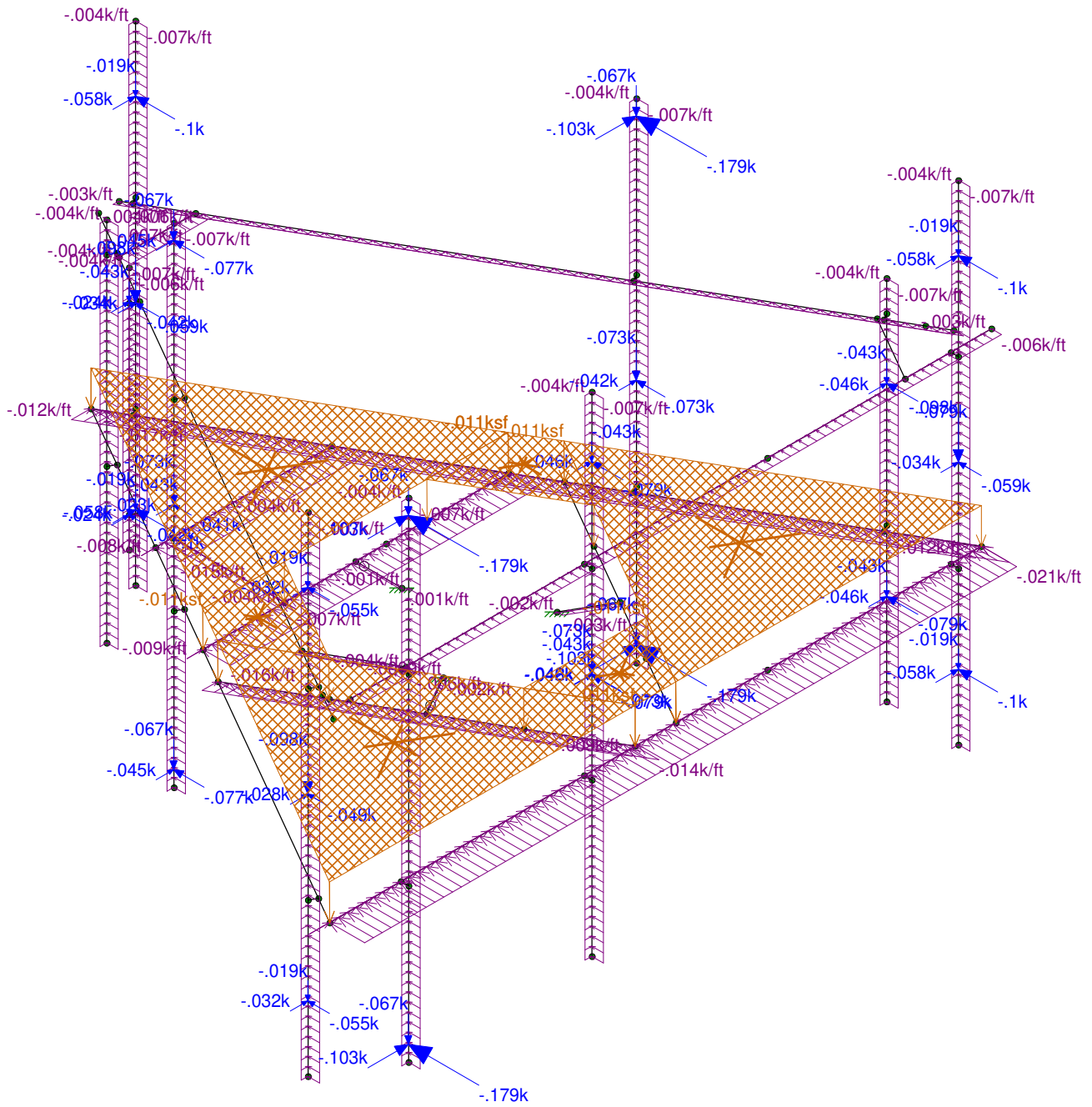
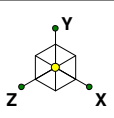
Envelope Only Solution

Tower Engineering Profes...	Oxford / Fritz Property (BU 876362)	SK - 2
AJS		June 24, 2022 at 8:40 AM
TEP No. 25611.714159		Mount Rev H.r3d



Loads: LC 2, 0.9D+1.0 0-Wind  
Envelope Only Solution

Tower Engineering Profes...	Oxford / Fritz Property (BU 876362)	SK - 3
AJS		June 24, 2022 at 8:40 AM
TEP No. 25611.714159		Mount Rev H.r3d

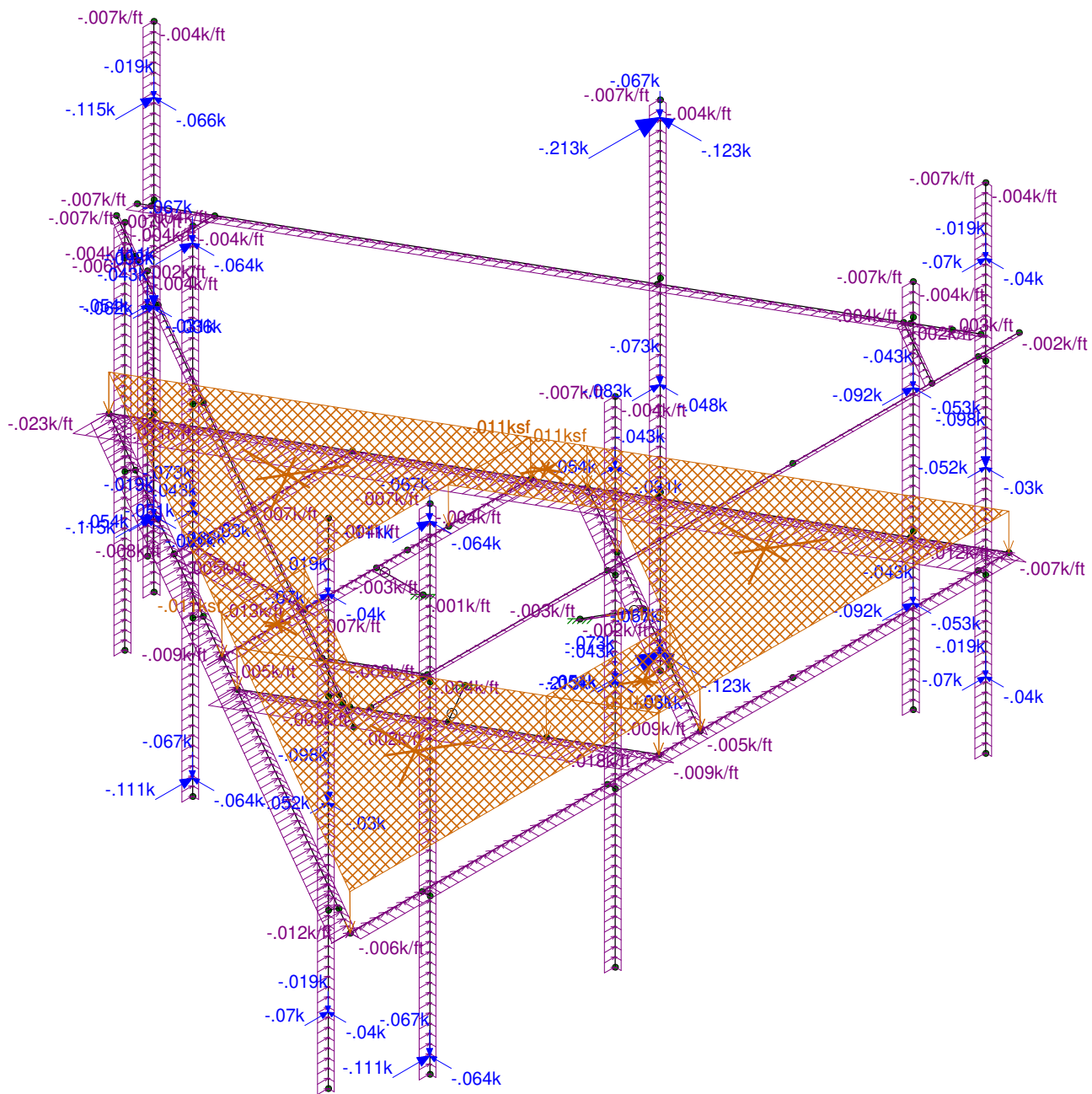
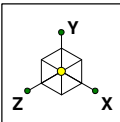


Loads: LC 3, 0.9D+1.0 30-Wind  
Envelope Only Solution

Tower Engineering Profes...  
AJS  
TEP No. 25611.714159

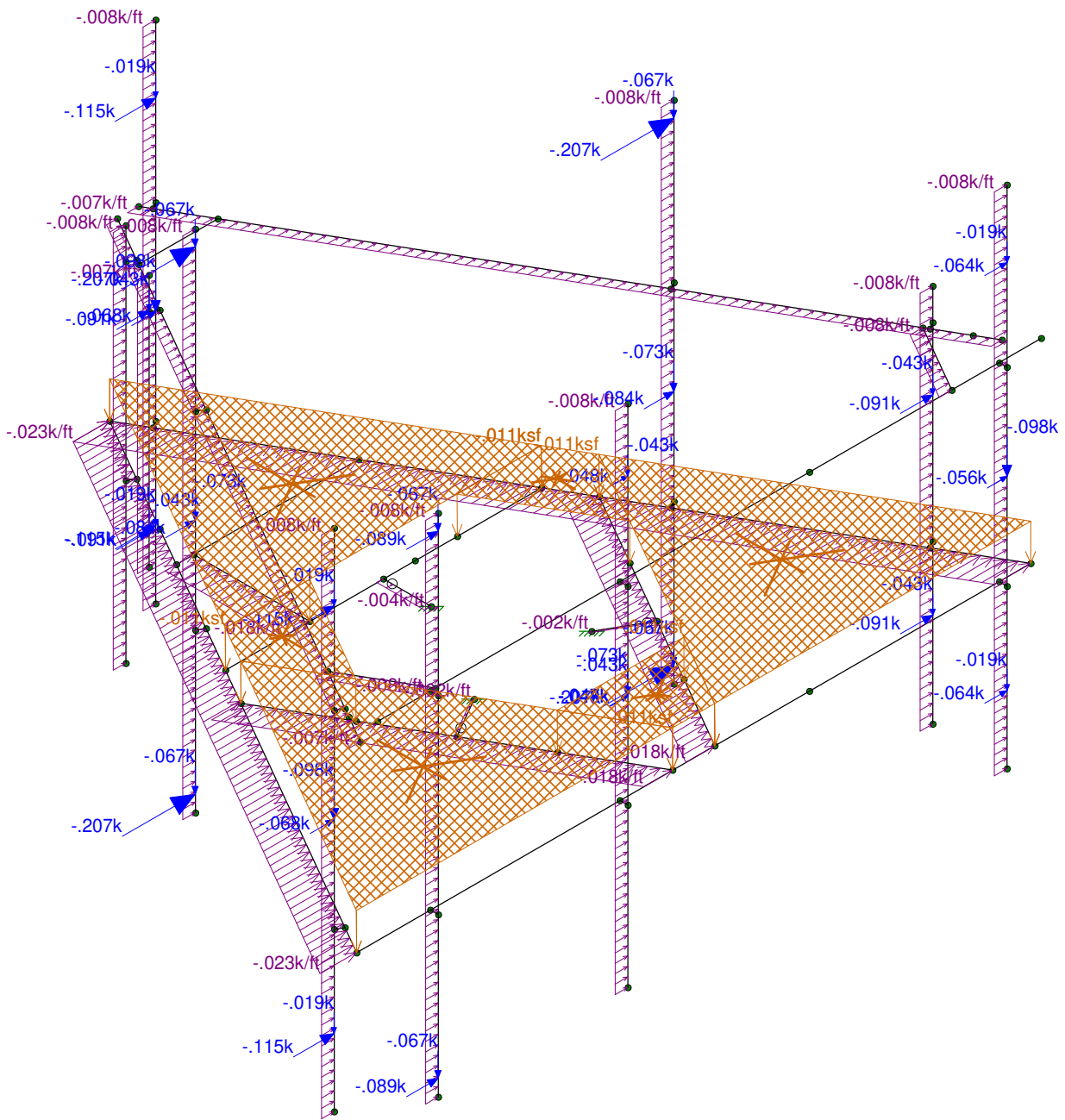
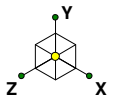
Oxford / Fritz Property (BU 876362)

SK - 4  
June 24, 2022 at 8:40 AM  
Mount Rev H.r3d



Loads: LC 5, 0.9D+1.0 60-Wind  
Envelope Only Solution

Tower Engineering Profes...	Oxford / Fritz Property (BU 876362)	SK - 5
AJS		June 24, 2022 at 8:40 AM
TEP No. 25611.714159		Mount Rev H.r3d



Loads: LC 6, 0.9D+1.0 90-Wind  
Envelope Only Solution

Tower Engineering Profes...

AJS

TEP No. 25611.714159

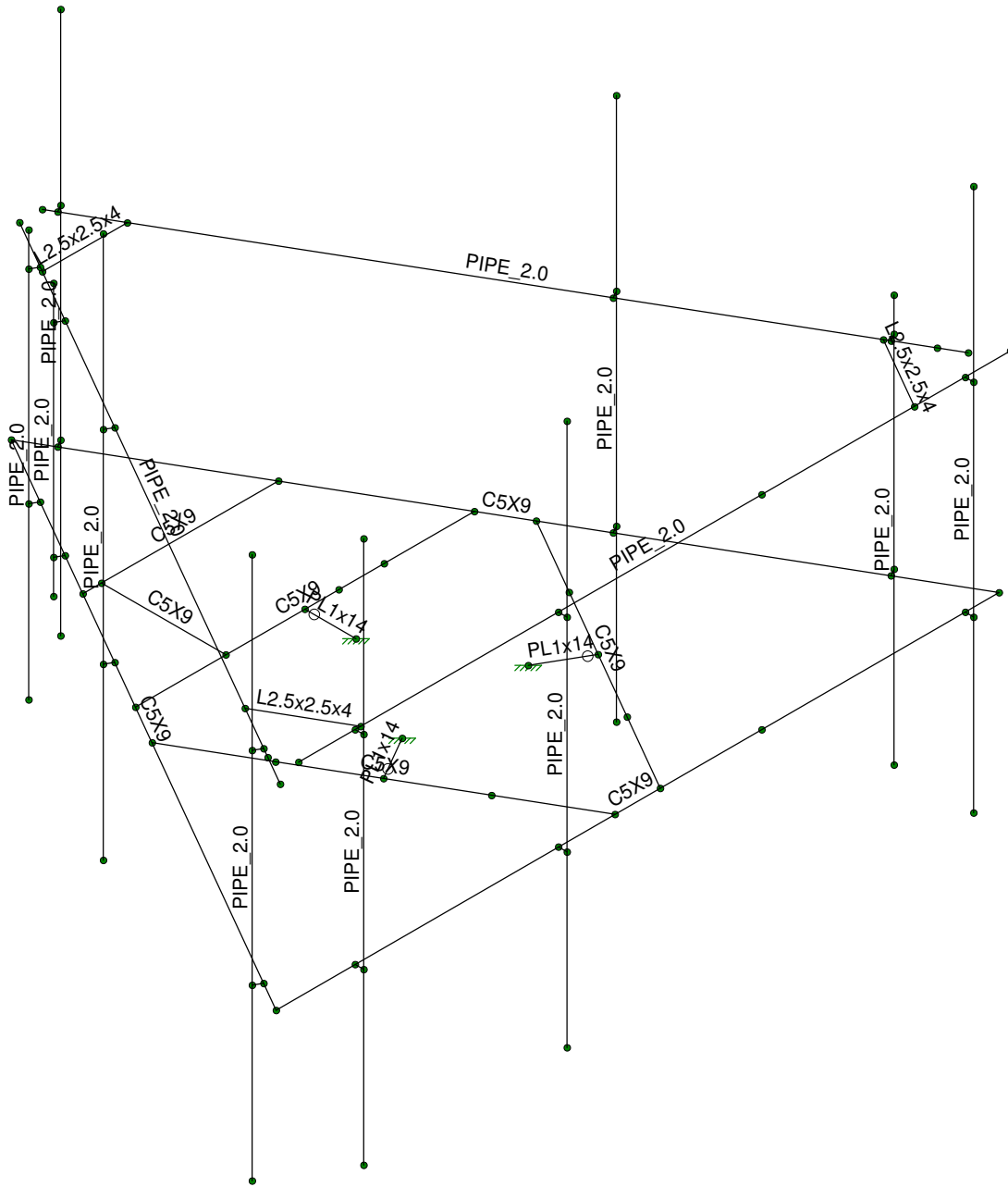
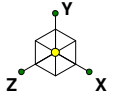
Oxford / Fritz Property (BU 876362)

SK - 6

June 24, 2022 at 8:40 AM

Mount Rev H.r3d





Envelope Only Solution

Tower Engineering Profes...

AJS

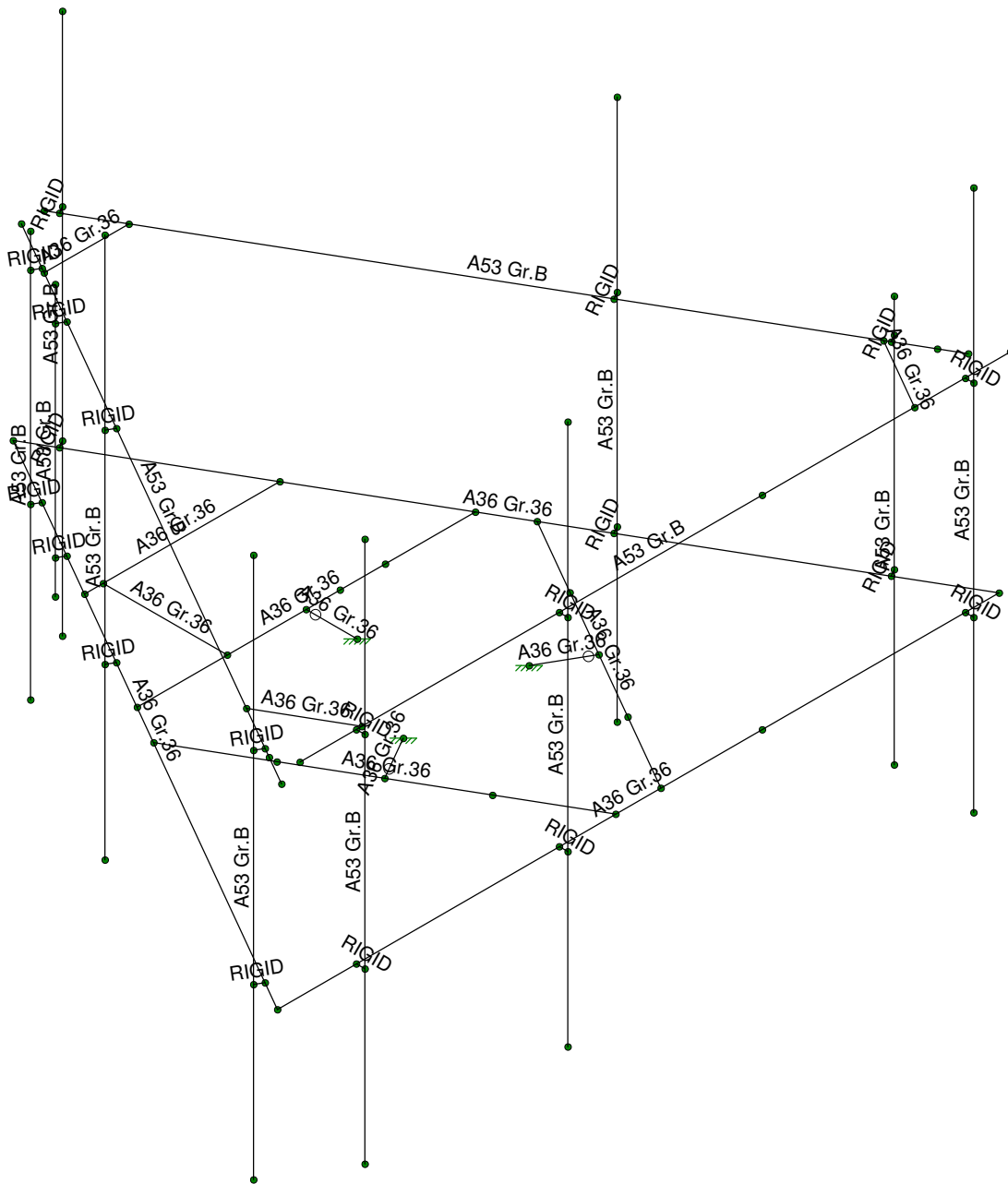
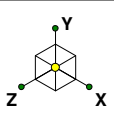
TEP No. 25611.714159

Oxford / Fritz Property (BU 876362)

SK - 7

June 24, 2022 at 8:41 AM

Mount Rev H.r3d



Envelope Only Solution

Tower Engineering Profes...

AJS

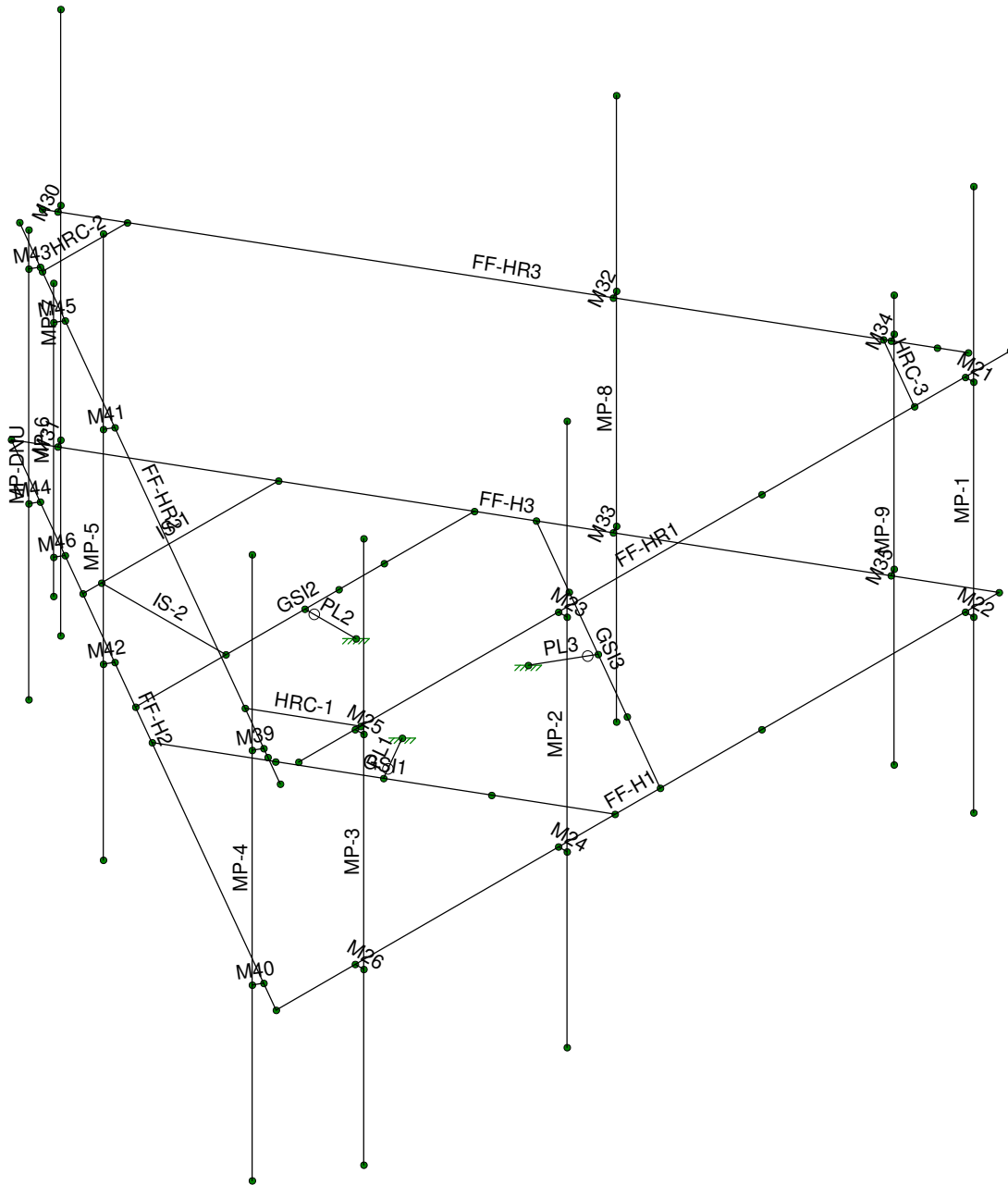
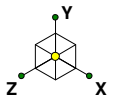
TEP No. 25611.714159

Oxford / Fritz Property (BU 876362)

SK - 8

June 24, 2022 at 8:41 AM

Mount Rev H.r3d



Envelope Only Solution

Tower Engineering Profes...

AJS

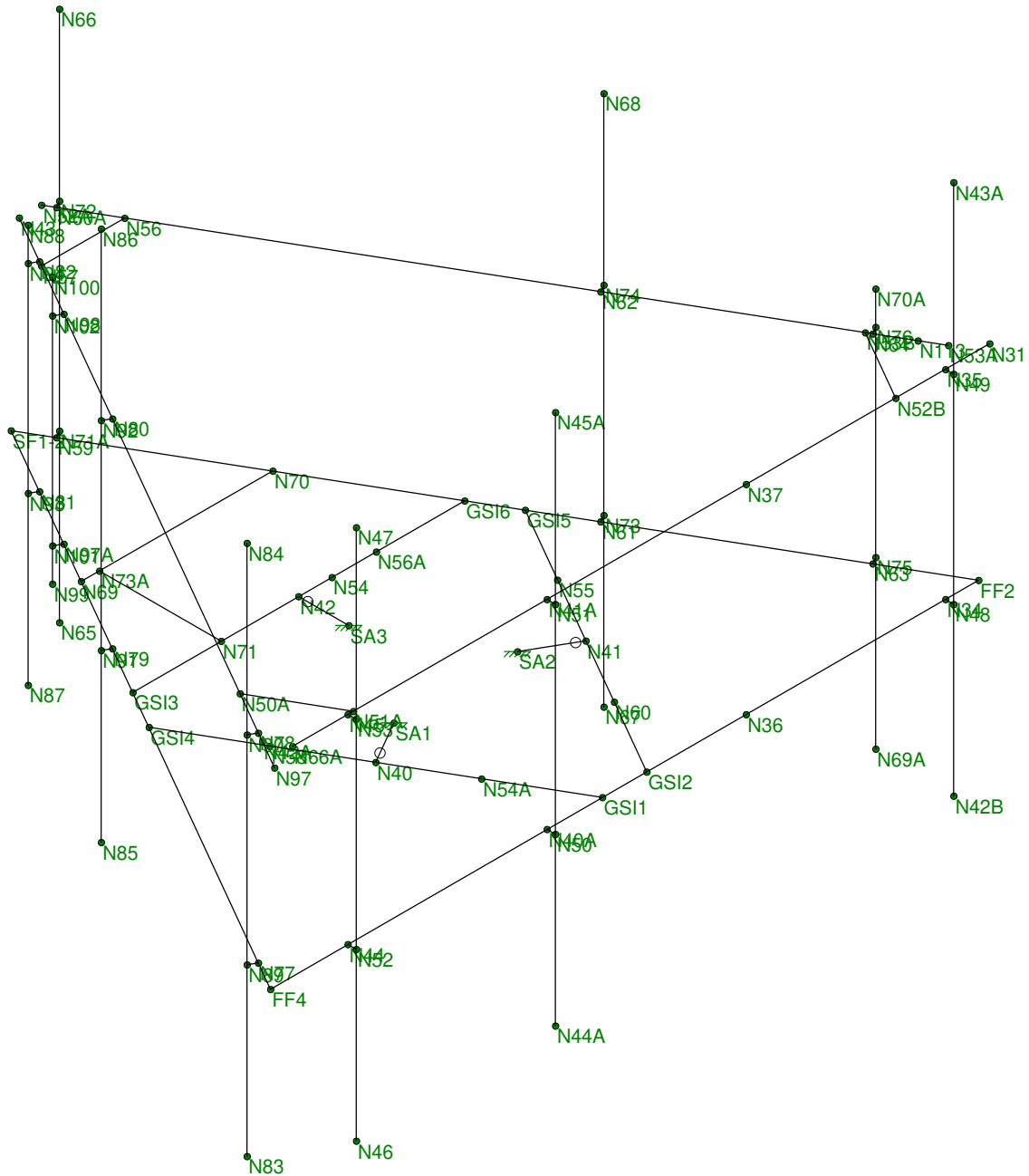
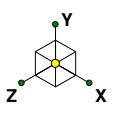
TEP No. 25611.714159

Oxford / Fritz Property (BU 876362)

SK - 9

June 24, 2022 at 8:41 AM

Mount Rev H.r3d



Envelope Only Solution

Tower Engineering Profes...	Oxford / Fritz Property (BU 876362)	SK - 10
AJS		June 24, 2022 at 8:42 AM
TEP No. 25611.714159		Mount Rev H.r3d

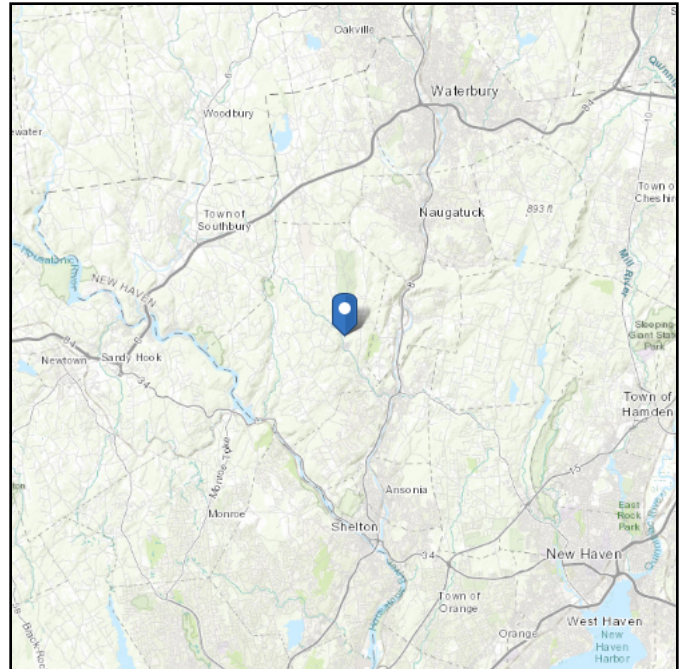
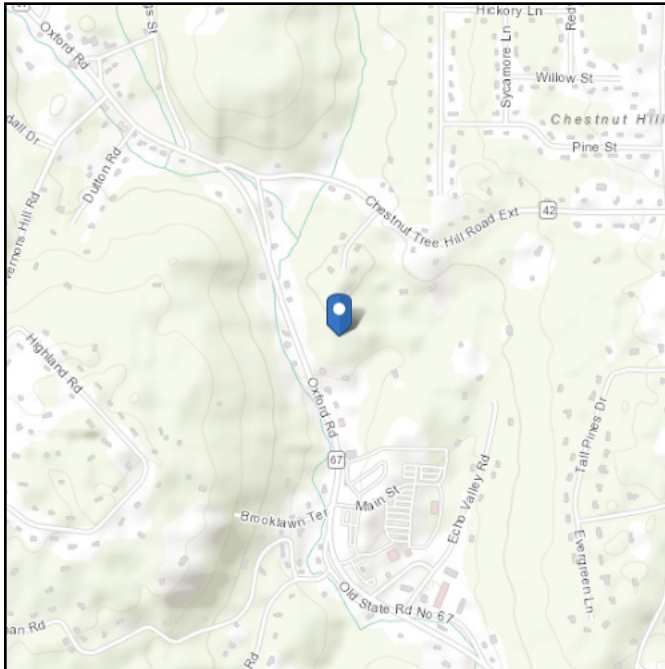
**APPENDIX B**  
**SOFTWARE INPUT CALCULATIONS**

# ASCE 7 Hazards Report

**Address:**  
No Address at This  
Location

**Standard:** ASCE/SEI 7-16  
**Risk Category:** II  
**Soil Class:** D - Default (see  
Section 11.4.3)

**Elevation:** 372.75 ft (NAVD 88)  
**Latitude:** 41.427992  
**Longitude:** -73.108542



## Wind

### Results:

Wind Speed	118 Vmph
10-year MRI	75 Vmph
25-year MRI	84 Vmph
50-year MRI	90 Vmph
100-year MRI	97 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2  
Date Accessed: Thu Jun 23 2022

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

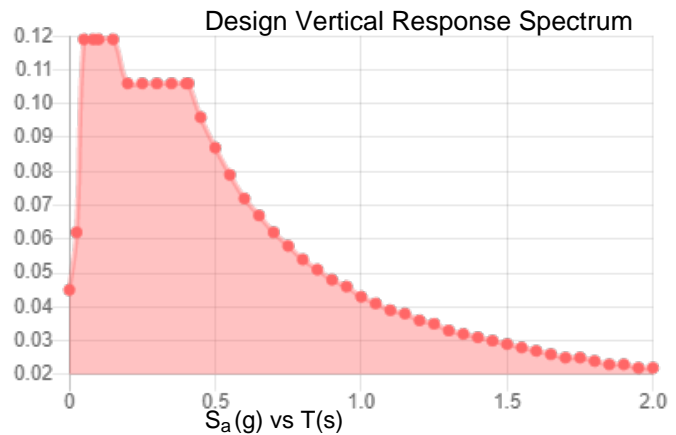
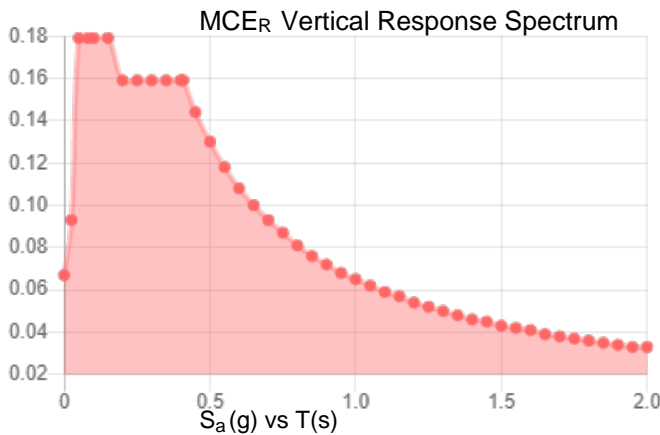
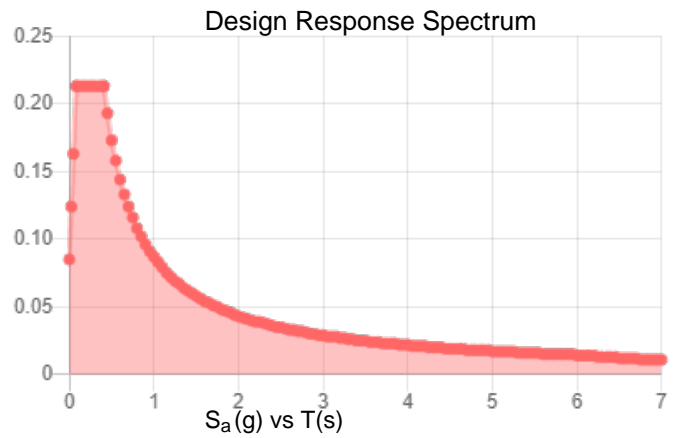
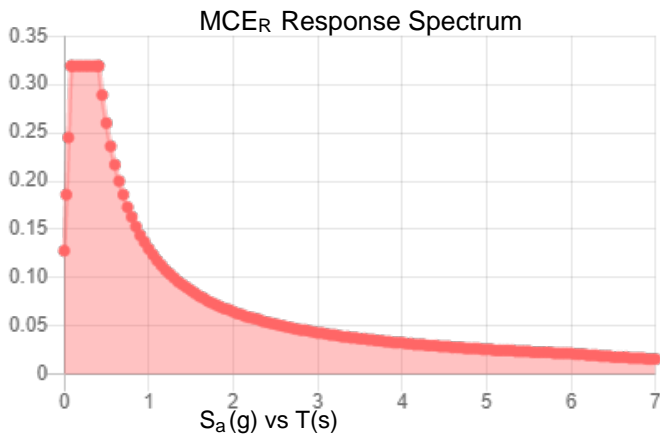
Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

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

**Results:**

$S_s$ :	0.199	$S_{D1}$ :	0.087
$S_1$ :	0.054	$T_L$ :	6
$F_a$ :	1.6	PGA :	0.111
$F_v$ :	2.4	PGA <sub>M</sub> :	0.176
$S_{MS}$ :	0.319	$F_{PGA}$ :	1.577
$S_{M1}$ :	0.13	$I_e$ :	1
$S_{DS}$ :	0.213	$C_v$ :	0.7

**Seismic Design Category** B



**Data Accessed:** Thu Jun 23 2022

**Date Source:**

**USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.**

## Ice

---

**Results:**

Ice Thickness: 1.00 in.  
Concurrent Temperature: 15 F  
Gust Speed 50 mph

**Data Source:** Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8

**Date Accessed:** Thu Jun 23 2022

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

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

---

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.

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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.





Code Revisions:	TIA-222-H	IBC 2015
Tower Type:	Monopole	

Wind Inputs:		
Ult. Wind Velocity:	118.0	mph
Live Load Velocity:	30.0	mph
Ice Wind Velocity:	50.0	mph
Base Ice Thickness:	1.00	inches
Mount Centerline:	152.0	ft
Antenna Centerline:	152.0	ft
Exposure Category:	B	
Topo Category:	1	
Risk Category:	II	
Ground Elevation:	373	ft

Wind Calculations:		
$K_{zt}$ :	1.000	Section 2.6.6
$K_d$ :	0.950	
$K_{z-Mount}$ :	1.114	Section 2.6.5.2
$K_{z-Antenna}$ :	1.114	Section 2.6.5.2
$K_{iz}$ :	1.165	Section 2.6.10
Ice Thickness:	1.165	inches - Section 2.6.10

Without Ice - (psf)	With Ice - (psf)
$(q_z G_h)_{Mount}$ : 37.21	$(q_z G_h)_{Mount}$ : 6.68
$(q_z G_h)_{Antenna}$ : 37.21	$(q_z G_h)_{Antenna}$ : 6.68

Seismic Code Revisions:	TIA-222-H
Seismic Risk Category:	II

Seismic Input		
$S_{DS}$ :	0.213	Design Short Period Spectral Accel.
$I_p$ :	1.0	Importance Factor
$R_p$ :	2.0	Response Modification Factor
$\rho$ :	1.0	
$A_5$ :	1.0	Applification Factor - TIA-222-H Section 2.7.8.1
$S_1$ :	0.054	Spectral Acceleration at a Period of 1 Second

Seismic Design Force			
Cs:	0.107	kips/kip	TIA-H Sec 2.7.7.1.1
Cs-min:	0.030	kips/kip	TIA-H Sec 2.7.7.1.1



Antenna Loads are Calculated in Accordance with TIA-222-H  
 Azimuth is the absolute angle measured clockwise from RISA-3D global X-axis.

MFR	Model	Height (in)	Width (in)	Depth (in)	Wt. (lbs)	Azimuth°	Qty	Shape	Member Label	Distance from start node of the member		
										Location #1 (ft,%)	Location #2 (ft,%)	Location #3 (ft,%)
COMMSCOPE	VV-65B-R1_TMO	70.35	12.01	4.65	41.67	0.00	1	Flat	MP-1	1.07	6.93	
ERICSSON	AIR 6419 B41_TMO	36.25	20.91	9.02	96.50	0.00	1	Flat	MP-2	0.99	4.01	
RFS/CELWAVE	APXVAALL24_43-U-NA20_TMO	95.90	24.00	8.50	149.90	0.00	1	Flat	MP-3	0.25	7.75	
COMMSCOPE	VV-65B-R1_TMO	70.35	12.01	4.65	41.67	120.00	1	Flat	MP-4	1.07	6.93	
RFS/CELWAVE	APXVAALL24_43-U-NA20_TMO	95.90	24.00	8.50	149.90	120.00	1	Flat	MP-5	0.25	7.75	
ERICSSON	AIR 6419 B41_TMO	36.25	20.91	9.02	96.50	120.00	1	Flat	MP-6	0.49	3.51	
COMMSCOPE	VV-65B-R1_TMO	70.35	12.01	4.65	41.67	240.00	1	Flat	MP-7	1.07	6.93	
RFS/CELWAVE	APXVAALL24_43-U-NA20_TMO	95.90	24.00	8.50	149.90	240.00	1	Flat	MP-8	0.25	7.75	
ERICSSON	AIR 6419 B41_TMO	36.25	20.91	9.02	96.50	240.00	1	Flat	MP-9	1.49	4.51	
ERICSSON	RADIO 4460 B2/B25 B66_TMO	17.00	15.10	11.90	109.00	0.00	1	Flat	MP-1	4.00		
ERICSSON	Radio 4480_TMOV2	22.00	15.70	7.50	81.00	0.00	1	Flat	MP-2	4.00		
ERICSSON	RADIO 4460 B2/B25 B66_TMO	17.00	15.10	11.90	109.00	120.00	1	Flat	MP-4	4.00		
ERICSSON	Radio 4480_TMOV2	22.00	15.70	7.50	81.00	120.00	1	Flat	MP-5	4.00		
ERICSSON	RADIO 4460 B2/B25 B66_TMO	17.00	15.10	11.90	109.00	240.00	1	Flat	MP-7	4.00		
ERICSSON	Radio 4480_TMOV2	22.00	15.70	7.50	81.00	240.00	1	Flat	MP-8	4.00		



**Oxford / Fritz Property (BU 876362)**

TEP No. 25611.714159

Analysis By: AJS 6/24/2022

Checked By: PHX 6/24/2022

**Member Forces are Calculated in Accordance with TIA-222-H**

Member Name	Wind Proj. (in)	Length (in)	Shape	θ (°)	Perimeter (in)
PL1	1.000	9.07	Flat	-60.00	30.00
PL2	1.000	9.07	Flat	0.00	30.00
PL3	1.000	9.07	Flat	60.00	30.00
FF-H1	5.000	128.00	Flat	90.00	16.91
FF-H2	5.000	128.00	Flat	-30.00	16.91
FF-H3	5.000	128.00	Flat	30.00	16.91
GSI1	5.000	60.00	Flat	30.00	16.91
GSI2	5.000	60.00	Flat	90.00	16.91
GSI3	5.000	60.00	Flat	-30.00	16.91
IS-1	5.000	34.60	Flat	90.00	16.91
IS-2	5.000	22.00	Flat	0.00	16.91
HRC-1	2.500	15.00	Flat	30.00	10.00
HRC-2	2.500	15.00	Flat	90.00	10.00
HRC-3	2.500	15.00	Flat	-30.00	10.00
FF-HR1	2.375	126.00	Round	90.00	7.46
FF-HR2	2.375	126.00	Round	-30.00	7.46
FF-HR3	2.375	120.00	Round	30.00	7.46
MP-1	2.375	96.00	Round		7.46
MP-2	2.375	96.00	Round		7.46
MP-3	2.375	96.00	Round		7.46
MP-4	2.375	96.00	Round		7.46
MP-5	2.375	96.00	Round		7.46
MP-6	2.375	48.00	Round		7.46
MP-7	2.375	96.00	Round		7.46
MP-8	2.375	96.00	Round		7.46
MP-9	2.375	72.00	Round		7.46
MP-DNU	2.375	72.00	Round		7.46

**APPENDIX C**  
**SOFTWARE ANALYSIS OUTPUT**



Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
 Model Name : Oxford / Fritz Property (BU 876362)

June 24, 2022  
 8:42 AM  
 Checked By: PHX

**(Global) Model Settings**

Display Sections for Member Calcs	5
Max Internal Sections for Member Calcs	97
Include Shear Deformation?	Yes
Increase Nailing Capacity for Wind?	Yes
Include Warping?	Yes
Trans Load Btwn Intersecting Wood Wall?	Yes
Area Load Mesh (in^2)	144
Merge Tolerance (in)	.12
P-Delta Analysis Tolerance	0.50%
Include P-Delta for Walls?	Yes
Automatically Iterate Stiffness for Walls?	Yes
Max Iterations for Wall Stiffness	3
Gravity Acceleration (ft/sec^2)	32.2
Wall Mesh Size (in)	24
Eigensolution Convergence Tol. (1.E-)	4
Vertical Axis	Y
Global Member Orientation Plane	XZ
Static Solver	Sparse Accelerated
Dynamic Solver	Accelerated Solver

Hot Rolled Steel Code	AISC 15th(360-16): LRFD
Adjust Stiffness?	No
RISACONNECTION CODE	None
Cold Formed Steel Code	None
Wood Code	None
Wood Temperature	< 100F
Concrete Code	None
Masonry Code	None
Aluminum Code	None - Building
Stainless Steel Code	None

Number of Shear Regions	4
Region Spacing Increment (in)	4
Biaxial Column Method	Exact Integration
Parme Beta Factor (PCA)	.65
Concrete Stress Block	Rectangular
Use Cracked Sections?	Yes
Use Cracked Sections Slab?	No
Bad Framing Warnings?	No
Unused Force Warnings?	Yes
Min 1 Bar Diam. Spacing?	No
Concrete Rebar Set	REBAR_SET_ASTMA615
Min % Steel for Column	1
Max % Steel for Column	8



Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
 Model Name : Oxford / Fritz Property (BU 876362)

June 24, 2022  
 8:42 AM  
 Checked By: PHX

**(Global) Model Settings, Continued**

Seismic Code	ASCE 7-10
Seismic Base Elevation (ft)	Not Entered
Add Base Weight?	Yes
Ct X	.02
Ct Z	.02
T X (sec)	Not Entered
T Z (sec)	Not Entered
R X	3
R Z	3
Ct Exp. X	.75
Ct Exp. Z	.75
SD1	1
SDS	1
S1	1
TL (sec)	5
Risk Cat	I or II
Drift Cat	Other
Om Z	1
Om X	1
Cd Z	1
Cd X	1
Rho Z	1
Rho X	1

**Material Takeoff**

	Material	Size	Pieces	Length[ft]	Weight[K]
1	General				
2	RIGID		20	2.5	0
3	Total General		20	2.5	0
4					
5	Hot Rolled Steel				
6	A36 Gr.36	C5X9	8	51.7	.465
7	A36 Gr.36	L2.5x2.5x4	3	3.8	.015
8	A36 Gr.36	PL1x14	3	2.3	.108
9	A53 Gr.B	PIPE 2.0	13	103	.357
10	Total HR Steel		27	160.7	.945

**Hot Rolled Steel Properties**

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

**Hot Rolled Steel Section Sets**

Label	Shape	Type	Design ...	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]	
1	Handrails	PIPE 2.0	None	None	A53 Gr.B	Typical	1.02	.627	.627	1.25
2	Frame	C5X9	None	None	A36 Gr.36	Typical	2.64	.624	8.89	.109
3	Bracing	L1.75X1.75X4	None	None	A36 Gr.36	Typical	.813	.227	.227	.018
4	Connection Plate	PL1x14	None	None	A36 Gr.36	Typical	14	1.167	228.667	4.457



Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
 Model Name : Oxford / Fritz Property (BU 876362)

June 24, 2022  
 8:42 AM  
 Checked By: PHX

**Hot Rolled Steel Section Sets (Continued)**

Label	Shape	Type	Design ...	Material	Design ...	A [in2]	Iy [in4]	Izz [in4]	J [in4]	
5	Mount Pipe1	PIPE 2.0	None	None	A53 Gr.B	Typical	1.02	.627	.627	1.25
6	HR Plate	L2.5x2.5x4	None	None	A36 Gr.36	Typical	1.19	.692	.692	.026

**Member Primary Data**

Label	I Joint	J Joint	K Joint	Rotate(d...)	Section/Shape	Type	Design List	Material	Design Ru...
1	PL1	SA1	N40	90	Connection Plate	None	None	A36 Gr.36	Typical
2	PL2	SA3	N42	90	Connection Plate	None	None	A36 Gr.36	Typical
3	PL3	SA2	N41	90	Connection Plate	None	None	A36 Gr.36	Typical
4	FF-H1	FF2	FF4		Frame	None	None	A36 Gr.36	Typical
5	FF-H2	FF4	SF1-2		Frame	None	None	A36 Gr.36	Typical
6	FF-H3	SF1-2	FF2		Frame	None	None	A36 Gr.36	Typical
7	GS11	GS11	GS14	180	Frame	None	None	A36 Gr.36	Typical
8	GS12	GS13	GS16	180	Frame	None	None	A36 Gr.36	Typical
9	GS13	GS12	GS15		Frame	None	None	A36 Gr.36	Typical
10	IS-1	N69	N70	180	Frame	None	None	A36 Gr.36	Typical
11	IS-2	N71	N73A	180	Frame	None	None	A36 Gr.36	Typical
12	HRC-1	N51A	N50A	90	HR Plate	None	None	A36 Gr.36	Typical
13	HRC-2	N57	N56	90	HR Plate	None	None	A36 Gr.36	Typical
14	HRC-3	N53B	N52B	90	HR Plate	None	None	A36 Gr.36	Typical
15	FF-HR1	N31	N66A		Handrails	None	None	A53 Gr.B	Typical
16	FF-HR2	N97	N43		Handrails	None	None	A53 Gr.B	Typical
17	FF-HR3	N52A	N53A		Handrails	None	None	A53 Gr.B	Typical
18	MP-1	N43A	N42B		Mount Pipe1	None	None	A53 Gr.B	Typical
19	MP-2	N45A	N44A		Mount Pipe1	None	None	A53 Gr.B	Typical
20	MP-3	N47	N46		Mount Pipe1	None	None	A53 Gr.B	Typical
21	MP-4	N84	N83		Mount Pipe1	None	None	A53 Gr.B	Typical
22	MP-5	N86	N85		Mount Pipe1	None	None	A53 Gr.B	Typical
23	MP-6	N100	N99		Mount Pipe1	None	None	A53 Gr.B	Typical
24	MP-7	N66	N65		Mount Pipe1	None	None	A53 Gr.B	Typical
25	MP-8	N68	N67		Mount Pipe1	None	None	A53 Gr.B	Typical
26	MP-9	N70A	N69A		Mount Pipe1	None	None	A53 Gr.B	Typical
27	MP-DNU	N88	N87		Mount Pipe1	None	None	A53 Gr.B	Typical
28	M21	N49	N35		RIGID	None	None	RIGID	Typical
29	M22	N48	N34		RIGID	None	None	RIGID	Typical
30	M23	N51	N41A		RIGID	None	None	RIGID	Typical
31	M24	N50	N40A		RIGID	None	None	RIGID	Typical
32	M25	N53	N45		RIGID	None	None	RIGID	Typical
33	M26	N52	N44		RIGID	None	None	RIGID	Typical
34	M30	N72	N60A		RIGID	None	None	RIGID	Typical
35	M31	N71A	N59		RIGID	None	None	RIGID	Typical
36	M32	N74	N62		RIGID	None	None	RIGID	Typical
37	M33	N73	N61		RIGID	None	None	RIGID	Typical
38	M34	N76	N64		RIGID	None	None	RIGID	Typical
39	M35	N75	N63		RIGID	None	None	RIGID	Typical
40	M39	N90	N78		RIGID	None	None	RIGID	Typical
41	M40	N89	N77		RIGID	None	None	RIGID	Typical
42	M41	N92	N80		RIGID	None	None	RIGID	Typical
43	M42	N91	N79		RIGID	None	None	RIGID	Typical
44	M43	N94	N82		RIGID	None	None	RIGID	Typical
45	M44	N93	N81		RIGID	None	None	RIGID	Typical
46	M45	N102	N98		RIGID	None	None	RIGID	Typical
47	M46	N101	N97A		RIGID	None	None	RIGID	Typical



Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
 Model Name : Oxford / Fritz Property (BU 876362)

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**Member Advanced Data**

Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical Defl	Ra	Analysis ...	Inactive	Seisml...
1	PL1		000000			Yes	** NA **			None
2	PL2		000000			Yes	** NA **			None
3	PL3		000000			Yes	** NA **			None
4	FF-H1					Yes	** NA **			None
5	FF-H2					Yes	** NA **			None
6	FF-H3					Yes	** NA **			None
7	GS11					Yes	** NA **			None
8	GS12					Yes	** NA **			None
9	GS13					Yes	** NA **			None
10	IS-1					Yes	** NA **			None
11	IS-2					Yes	** NA **			None
12	HRC-1					Yes	** NA **			None
13	HRC-2					Yes	** NA **			None
14	HRC-3					Yes	** NA **			None
15	FF-HR1					Yes	** NA **			None
16	FF-HR2					Yes	** NA **			None
17	FF-HR3					Yes	** NA **			None
18	MP-1					Yes	** NA **			None
19	MP-2					Yes	** NA **			None
20	MP-3					Yes	** NA **			None
21	MP-4					Yes	** NA **			None
22	MP-5					Yes	** NA **			None
23	MP-6					Yes	** NA **			None
24	MP-7					Yes	** NA **			None
25	MP-8					Yes	** NA **			None
26	MP-9					Yes	** NA **			None
27	MP-DNU					Yes	** NA **			None
28	M21					Yes	** NA **			None
29	M22					Yes	** NA **			None
30	M23					Yes	** NA **			None
31	M24					Yes	** NA **			None
32	M25					Yes	** NA **			None
33	M26					Yes	** NA **			None
34	M30					Yes	** NA **			None
35	M31					Yes	** NA **			None
36	M32					Yes	** NA **			None
37	M33					Yes	** NA **			None
38	M34					Yes	** NA **			None
39	M35					Yes	** NA **			None
40	M39					Yes	** NA **			None
41	M40					Yes	** NA **			None
42	M41					Yes	** NA **			None
43	M42					Yes	** NA **			None
44	M43					Yes	** NA **			None
45	M44					Yes	** NA **			None
46	M45					Yes	** NA **			None
47	M46					Yes	** NA **			None

**Hot Rolled Steel Design Parameters**

Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top...	Lcomp bot[...]	L-torg...	Kyy	Kzz	Cb	Functi...
1	PL1	Connection Plate	.755					.8	.65		Lateral
2	PL2	Connection Plate	.755					.8	.65		Lateral
3	PL3	Connection Plate	.755					.8	.65		Lateral
4	FF-H1	Frame	10.667	5	5			.65	.65		Lateral



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**Hot Rolled Steel Design Parameters (Continued)**

Label	Shape	Length[ft]	Lby[ft]	Lbzz[ft]	Lcomp top...	Lcomp bot...	L-tors...	Kyy	Kzz	Cb	Funci...
5	FF-H2	Frame	10.667	5	5			.65	.65		Lateral
6	FF-H3	Frame	10.667	5	5			.65	.65		Lateral
7	GSI1	Frame	5	2.5	2.5			.65	.65		Lateral
8	GSI2	Frame	5	2.5	2.5			.65	.65		Lateral
9	GSI3	Frame	5	2.5	2.5			.65	.65		Lateral
10	IS-1	Frame	2.883					.65	.65		Lateral
11	IS-2	Frame	1.833					.65	.65		Lateral
12	HRC-1	HR Plate	1.25					.65	.65		Lateral
13	HRC-2	HR Plate	1.25					.65	.65		Lateral
14	HRC-3	HR Plate	1.25					.65	.65		Lateral
15	FF-HR1	Handrails	10.5					2.1	2.1		Lateral
16	FF-HR2	Handrails	10.5					2.1	2.1		Lateral
17	FF-HR3	Handrails	10					2.1	2.1		Lateral
18	MP-1	Mount Pipe1	8	Segment	Segment			2.1	2.1		Lateral
19	MP-2	Mount Pipe1	8	Segment	Segment			2.1	2.1		Lateral
20	MP-3	Mount Pipe1	8	Segment	Segment			2.1	2.1		Lateral
21	MP-4	Mount Pipe1	8	Segment	Segment			2.1	2.1		Lateral
22	MP-5	Mount Pipe1	8	Segment	Segment			2.1	2.1		Lateral
23	MP-6	Mount Pipe1	4	Segment	Segment			2.1	2.1		Lateral
24	MP-7	Mount Pipe1	8	Segment	Segment			2.1	2.1		Lateral
25	MP-8	Mount Pipe1	8	Segment	Segment			2.1	2.1		Lateral
26	MP-9	Mount Pipe1	6	Segment	Segment			2.1	2.1		Lateral
27	MP-DNU	Mount Pipe1	6	Segment	Segment			2.1	2.1		Lateral

**Joint Boundary Conditions**

Joint Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot [k-ft/rad]	Y Rot [k-ft/rad]	Z Rot [k-ft/rad]
1	SA1	Reaction	Reaction	Reaction	Reaction	Reaction
2	SA2	Reaction	Reaction	Reaction	Reaction	Reaction
3	SA3	Reaction	Reaction	Reaction	Reaction	Reaction

**Basic Load Cases**

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
1	Dead		-1			24		6
2	0 Wind - No Ice					24	27	
3	30 Wind - No Ice					48	54	
4	45 Wind - No Ice					48	54	
5	60 Wind - No Ice					48	54	
6	90 Wind - No Ice					24	27	
7	120 Wind - No Ice					48	54	
8	135 Wind - No Ice					48	54	
9	150 Wind - No Ice					48	54	
10	180 Wind - No Ice					24	27	
11	210 Wind - No Ice					48	54	
12	225 Wind - No Ice					48	54	
13	240 Wind - No Ice					48	54	
14	270 Wind - No Ice					24	27	
15	300 Wind - No Ice					48	54	
16	315 Wind - No Ice					48	54	
17	330 Wind - No Ice					48	54	
18	Ice Weight					24	27	6
19	0 Wind - Ice					24	27	
20	30 Wind - Ice					48	54	
21	45 Wind - Ice					48	54	
22	60 Wind - Ice					48	54	



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**Basic Load Cases (Continued)**

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
23	90 Wind - Ice	None				24	27	
24	120 Wind - Ice	None				48	54	
25	135 Wind - Ice	None				48	54	
26	150 Wind - Ice	None				48	54	
27	180 Wind - Ice	None				24	27	
28	210 Wind - Ice	None				48	54	
29	225 Wind - Ice	None				48	54	
30	240 Wind - Ice	None				48	54	
31	270 Wind - Ice	None				24	27	
32	300 Wind - Ice	None				48	54	
33	315 Wind - Ice	None				48	54	
34	330 Wind - Ice	None				48	54	
35	Lm	None			1			
36	Lv	None			1			
37	Seismic Load X	ELX	-1			24		
38	Seismic Load Z	ELZ		-1		24		
39	BLC 1 Transient Area...	None					78	
40	BLC 18 Transient Are...	None					78	

**Load Combinations**

Description	So...	P...	S...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...
1	1.4D	Yes	Y	1	1.4								
2	0.9D+1.0 0-Wind	Yes	Y	1	.9	2	1						
3	0.9D+1.0 30-Wind	Yes	Y	1	.9	3	1						
4	0.9D+1.0 45-Wind	Yes	Y	1	.9	4	1						
5	0.9D+1.0 60-Wind	Yes	Y	1	.9	5	1						
6	0.9D+1.0 90-Wind	Yes	Y	1	.9	6	1						
7	0.9D+1.0 120-Wind	Yes	Y	1	.9	7	1						
8	0.9D+1.0 135-Wind	Yes	Y	1	.9	8	1						
9	0.9D+1.0 150-Wind	Yes	Y	1	.9	9	1						
10	0.9D+1.0 180-Wind	Yes	Y	1	.9	10	1						
11	0.9D+1.0 210-Wind	Yes	Y	1	.9	11	1						
12	0.9D+1.0 225-Wind	Yes	Y	1	.9	12	1						
13	0.9D+1.0 240-Wind	Yes	Y	1	.9	13	1						
14	0.9D+1.0 270-Wind	Yes	Y	1	.9	14	1						
15	0.9D+1.0 300-Wind	Yes	Y	1	.9	15	1						
16	0.9D+1.0 315-Wind	Yes	Y	1	.9	16	1						
17	0.9D+1.0 330-Wind	Yes	Y	1	.9	17	1						
18	1.2D+1.0 0-Wind	Yes	Y	1	1.2	2	1						
19	1.2D+1.0 30-Wind	Yes	Y	1	1.2	3	1						
20	1.2D+1.0 45-Wind	Yes	Y	1	1.2	4	1						
21	1.2D+1.0 60-Wind	Yes	Y	1	1.2	5	1						
22	1.2D+1.0 90-Wind	Yes	Y	1	1.2	6	1						
23	1.2D+1.0 120-Wind	Yes	Y	1	1.2	7	1						
24	1.2D+1.0 135-Wind	Yes	Y	1	1.2	8	1						
25	1.2D+1.0 150-Wind	Yes	Y	1	1.2	9	1						
26	1.2D+1.0 180-Wind	Yes	Y	1	1.2	10	1						
27	1.2D+1.0 210-Wind	Yes	Y	1	1.2	11	1						
28	1.2D+1.0 225-Wind	Yes	Y	1	1.2	12	1						
29	1.2D+1.0 240-Wind	Yes	Y	1	1.2	13	1						
30	1.2D+1.0 270-Wind	Yes	Y	1	1.2	14	1						
31	1.2D+1.0 300-Wind	Yes	Y	1	1.2	15	1						
32	1.2D+1.0 315-Wind	Yes	Y	1	1.2	16	1						
33	1.2D+1.0 330-Wind	Yes	Y	1	1.2	17	1						
34	1.2D+1.0D+1.0 0-...	Yes	Y	1	1.2	18	1	19	1				



**Load Combinations (Continued)**

Description	So.	P.	S.	BLC Fac.	BLC Fac.	BLC Fac.	BLC Fac.	BLC Fac.	BLC Fac.	BLC Fac.	BLC Fac.	BLC Fac.	BLC Fac.
35	1.2D+1.0Di+1.0 30...	Yes	Y	1	1.2	1.8	1	20	1				
36	1.2D+1.0Di+1.0 45...	Yes	Y	1	1.2	1.8	1	21	1				
37	1.2D+1.0Di+1.0 60...	Yes	Y	1	1.2	1.8	1	22	1				
38	1.2D+1.0Di+1.0 90...	Yes	Y	1	1.2	1.8	1	23	1				
39	1.2D+1.0Di+1.0 12...	Yes	Y	1	1.2	1.8	1	24	1				
40	1.2D+1.0Di+1.0 13...	Yes	Y	1	1.2	1.8	1	25	1				
41	1.2D+1.0Di+1.0 15...	Yes	Y	1	1.2	1.8	1	26	1				
42	1.2D+1.0Di+1.0 18...	Yes	Y	1	1.2	1.8	1	27	1				
43	1.2D+1.0Di+1.0 21...	Yes	Y	1	1.2	1.8	1	28	1				
44	1.2D+1.0Di+1.0 22...	Yes	Y	1	1.2	1.8	1	29	1				
45	1.2D+1.0Di+1.0 24...	Yes	Y	1	1.2	1.8	1	30	1				
46	1.2D+1.0Di+1.0 27...	Yes	Y	1	1.2	1.8	1	31	1				
47	1.2D+1.0Di+1.0 30...	Yes	Y	1	1.2	1.8	1	32	1				
48	1.2D+1.0Di+1.0 31...	Yes	Y	1	1.2	1.8	1	33	1				
49	1.2D+1.0Di+1.0 33...	Yes	Y	1	1.2	1.8	1	34	1				
50	1.2D+1.5Lv	Yes	Y	36	1.5	1	1.2						
51	1.2D+1.5Lm+1.0 0...	Yes	Y	1	1.2	2	.065	35	1.5				
52	1.2D+1.5Lm+1.0 30...	Yes	Y	1	1.2	3	.065	35	1.5				
53	1.2D+1.5Lm+1.0 45...	Yes	Y	1	1.2	4	.065	35	1.5				
54	1.2D+1.5Lm+1.0 60...	Yes	Y	1	1.2	5	.065	35	1.5				
55	1.2D+1.5Lm+1.0 90...	Yes	Y	1	1.2	6	.065	35	1.5				
56	1.2D+1.5Lm+1.0 12...	Yes	Y	1	1.2	7	.065	35	1.5				
57	1.2D+1.5Lm+1.0 13...	Yes	Y	1	1.2	8	.065	35	1.5				
58	1.2D+1.5Lm+1.0 15...	Yes	Y	1	1.2	9	.065	35	1.5				
59	1.2D+1.5Lm+1.0 18...	Yes	Y	1	1.2	10	.065	35	1.5				
60	1.2D+1.5Lm+1.0 21...	Yes	Y	1	1.2	11	.065	35	1.5				
61	1.2D+1.5Lm+1.0 22...	Yes	Y	1	1.2	12	.065	35	1.5				
62	1.2D+1.5Lm+1.0 24...	Yes	Y	1	1.2	13	.065	35	1.5				
63	1.2D+1.5Lm+1.0 27...	Yes	Y	1	1.2	14	.065	35	1.5				
64	1.2D+1.5Lm+1.0 30...	Yes	Y	1	1.2	15	.065	35	1.5				
65	1.2D+1.5Lm+1.0 31...	Yes	Y	1	1.2	16	.065	35	1.5				
66	1.2D+1.5Lm+1.0 33...	Yes	Y	1	1.2	17	.065	35	1.5				
67	(1.2+0.2Sds)D+1.0 ...	Yes	Y	1	1.243	ELX	.106	0					
68	(1.2+0.2Sds)D+1.0 ...	Yes	Y	1	1.243	ELX	.092	ELZ	.053				
69	(1.2+0.2Sds)D+1.0 ...	Yes	Y	1	1.243	ELX	.075	ELZ	.075				
70	(1.2+0.2Sds)D+1.0 ...	Yes	Y	1	1.243	ELX	.053	ELZ	.092				
71	(1.2+0.2Sds)D+1.0 ...	Yes	Y	1	1.243	0		ELZ	.106				
72	(1.2+0.2Sds)D+1.0 ...	Yes	Y	1	1.243	ELX	-.053	ELZ	.092				
73	(1.2+0.2Sds)D+1.0 ...	Yes	Y	1	1.243	ELX	-.075	ELZ	.075				
74	(1.2+0.2Sds)D+1.0 ...	Yes	Y	1	1.243	ELX	-.092	ELZ	.053				
75	(1.2+0.2Sds)D+1.0 ...	Yes	Y	1	1.243	ELX	-.106	0					
76	(1.2+0.2Sds)D+1.0 ...	Yes	Y	1	1.243	ELX	-.092	ELZ	-.053				
77	(1.2+0.2Sds)D+1.0 ...	Yes	Y	1	1.243	ELX	-.075	ELZ	-.075				
78	(1.2+0.2Sds)D+1.0 ...	Yes	Y	1	1.243	ELX	-.053	ELZ	-.092				
79	(1.2+0.2Sds)D+1.0 ...	Yes	Y	1	1.243	0		ELZ	-.106				
80	(1.2+0.2Sds)D+1.0 ...	Yes	Y	1	1.243	ELX	.053	ELZ	-.092				
81	(1.2+0.2Sds)D+1.0 ...	Yes	Y	1	1.243	ELX	.075	ELZ	-.075				
82	(1.2+0.2Sds)D+1.0 ...	Yes	Y	1	1.243	ELX	.092	ELZ	-.053				
83	(0.9-0.2Sds)*DL+1....	Yes	Y	1	.857	ELX	.106	0					
84	(0.9-0.2Sds)*DL+1....	Yes	Y	1	.857	ELX	.092	ELZ	.053				
85	(0.9-0.2Sds)*DL+1....	Yes	Y	1	.857	ELX	.075	ELZ	.075				
86	(0.9-0.2Sds)*DL+1....	Yes	Y	1	.857	ELX	.053	ELZ	.092				
87	(0.9-0.2Sds)*DL+1....	Yes	Y	1	.857	0		ELZ	.106				
88	(0.9-0.2Sds)*DL+1....	Yes	Y	1	.857	ELX	+.053	ELZ	.092				
89	(0.9-0.2Sds)*DL+1....	Yes	Y	1	.857	ELX	+.075	ELZ	.075				
90	(0.9-0.2Sds)*DL+1....	Yes	Y	1	.857	ELX	+.092	ELZ	.053				
91	(0.9-0.2Sds)*DL+1....	Yes	Y	1	.857	ELX	-.106	0					



**Load Combinations (Continued)**

Description	So.	P.	S.	BLC Fac.	BLC Fac.	BLC Fac.	BLC Fac.	BLC Fac.	BLC Fac.	BLC Fac.	BLC Fac.	BLC Fac.	BLC Fac.
92	(0.9-0.2Sds)*DL+1....	Yes	Y	1	.857	ELX	-.092	ELZ	-.053				
93	(0.9-0.2Sds)*DL+1....	Yes	Y	1	.857	ELX	-.075	ELZ	-.075				
94	(0.9-0.2Sds)*DL+1....	Yes	Y	1	.857	ELX	-.053	ELZ	-.092				
95	(0.9-0.2Sds)*DL+1....	Yes	Y	1	.857	0		ELZ	-.106				
96	(0.9-0.2Sds)*DL+1....	Yes	Y	1	.857	ELX	.053	ELZ	-.092				
97	(0.9-0.2Sds)*DL+1....	Yes	Y	1	.857	ELX	.075	ELZ	-.075				
98	(0.9-0.2Sds)*DL+1....	Yes	Y	1	.857	ELX	.092	ELZ	-.053				

**Joint Coordinates and Temperatures**

Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	SA1	0.5365	-1.5	0.929245	0
2	SA2	0.5365	-1.5	-0.929245	0
3	SA3	-1.073	-1.5	0	0
4	GS11	3.079298	-1.5	0.3335	0
5	GS12	3.079298	-1.5	-0.3335	0
6	GS13	-1.828468	-1.5	2.5	0
7	GS14	-1.250829	-1.5	2.8335	0
8	GS15	-1.250829	-1.5	-2.8335	0
9	GS16	-1.828468	-1.5	-2.5	0
10	FF2	3.079298	-1.5	-5.3335	0
11	FF4	3.079298	-1.5	5.3335	0
12	SF1-2	-6.158595	-1.5	0	0
13	N40	0.914234	-1.5	1.5835	0
14	N41	0.914234	-1.5	-1.5835	0
15	N42	-1.828468	-1.5	0	0
16	N54	-1.828468	-1.5	-5	0
17	N69	-3.661801	-1.5	1.441524	0
18	N70	-3.661801	-1.5	-1.441524	0
19	N71	-1.828468	-1.5	1.166667	0
20	N73A	-3.661801	-1.5	-1.166667	0
21	N31	3.079298	1.5	-5.5	0
22	N42A	2.790478	1.5	5.16675	0
23	N43	-5.869776	1.5	0.16675	0
24	N52A	-5.869776	1.5	-0.16675	0
25	N53A	2.790478	1.5	-5.16675	0
26	N113	2.501803	1.5	-5.000084	0
27	N66A	3.079298	1.5	5	0
28	N34	3.079298	-1.5	-4.8335	0
29	N35	3.079298	1.5	-4.8335	0
30	N36	3.079298	-1.5	-1.8335	0
31	N37	3.079298	1.5	-1.8335	0
32	N40A	3.079298	-1.5	1.1665	0
33	N41A	3.079298	1.5	1.1665	0
34	N44	3.079298	-1.5	4.1665	0
35	N45	3.079298	1.5	4.1665	0
36	N42B	3.204298	-4	-4.8335	0
37	N43A	3.204298	4	-4.8335	0
38	N44A	3.204298	-4	1.1665	0
39	N45A	3.204298	4	1.1665	0
40	N46	3.204298	-4	4.1665	0
41	N47	3.204298	4	4.1665	0
42	N48	3.204298	-1.5	-4.8335	0
43	N49	3.204298	1.5	-4.8335	0
44	N50	3.204298	-1.5	1.1665	0
45	N51	3.204298	1.5	1.1665	0





Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
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**Joint Coordinates and Temperatures (Continued)**

	Label	X (ft)	Y (ft)	Z (ft)	Temp (F)	Detach From Diap.
46	N52	3.204298	-1.5	4.1665	0	
47	N53	3.204298	1.5	4.1665	0	
48	N56	-5.076064	1.5	-.625	0	
49	N57	-5.076064	1.5	.625	0	
50	N50A	1.996766	1.5	4.708501	0	
51	N51A	3.079298	1.5	4.083501	0	
52	N52B	3.079298	1.5	-4.083501	0	
53	N53B	1.996766	1.5	-4.708501	0	
54	N54A	1.924597	-1.5	1.000166	0	
55	N55	-0.096129	-1.5	-2.166833	0	
56	N56A	-1.828468	-1.5	-1.166667	0	
57	N58	-0.096129	-1.5	2.166833	0	
58	N60	1.924597	-1.5	-1.000166	0	
59	N59	-5.725583	-1.5	-0.25	0	
60	N60A	-5.725583	-1.5	-0.25	0	
61	N61	-0.52943	-1.5	-3.25	0	
62	N62	-0.52943	1.5	-3.25	0	
63	N63	2.068646	-1.5	-4.75	0	
64	N64	2.068646	1.5	-4.75	0	
65	N65	-5.788083	-4	-0.358253	0	
66	N66	-5.788083	4	-0.358253	0	
67	N67	-0.59193	-4	-3.358253	0	
68	N68	-0.59193	4	-3.358253	0	
69	N69A	2.006146	-4	-4.858253	0	
70	N70A	2.006146	2	-4.858253	0	
71	N71A	-5.788083	-1.5	-0.358253	0	
72	N72	-5.788083	1.5	-0.358253	0	
73	N73	-0.59193	-1.5	-3.358253	0	
74	N74	-0.59193	1.5	-3.358253	0	
75	N75	2.006146	-1.5	-4.858253	0	
76	N76	2.006146	1.5	-4.858253	0	
77	N77	2.646285	-1.5	5.0835	0	
78	N78	2.646285	1.5	5.0835	0	
79	N79	-2.549868	-1.5	2.0835	0	
80	N80	-2.549868	1.5	2.0835	0	
81	N81	-5.147944	-1.5	0.5835	0	
82	N82	-5.147944	1.5	0.5835	0	
83	N83	2.583785	-4	5.191753	0	
84	N84	2.583785	4	5.191753	0	
85	N85	-2.612368	-4	2.191753	0	
86	N86	-2.612368	4	2.191753	0	
87	N87	-5.210444	-4	0.691753	0	
88	N88	-5.210444	2	0.691753	0	
89	N89	2.583785	-1.5	5.191753	0	
90	N90	2.583785	1.5	5.191753	0	
91	N91	-2.612368	-1.5	2.191753	0	
92	N92	-2.612368	1.5	2.191753	0	
93	N93	-5.210444	-1.5	0.691753	0	
94	N94	-5.210444	1.5	0.691753	0	
95	N97	3.223491	1.5	5.41675	0	
96	N97A	-4.281918	-1.5	1.0835	0	
97	N98	-4.281918	1.5	1.0835	0	
98	N99	-4.344418	-2	1.191753	0	
99	N100	-4.344418	2	1.191753	0	
100	N101	-4.344418	-1.5	1.191753	0	
101	N102	-4.344418	1.5	1.191753	0	



Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
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**Joint Loads and Enforced Displacements (BLC 35 : Lm)**

	Joint Label	L,D,M	Direction	Magnitude[(k.k-ft), (in.rad), (k"s^2/ft...)]
1	N48	L	Y	-.5

**Joint Loads and Enforced Displacements (BLC 36 : Lv)**

	Joint Label	L,D,M	Direction	Magnitude[(k.k-ft), (in.rad), (k"s^2/ft...)]
1	FF2	L	Y	-.25

**Member Point Loads (BLC 1 : Dead)**

	Member Label	Direction	Magnitude[(k.k-ft)]	Location[ft.%]
1	MP-1	Y	-.021	1.069
2	MP-2	Y	-.048	.99
3	MP-3	Y	-.075	.25
4	MP-4	Y	-.021	1.069
5	MP-5	Y	-.075	.25
6	MP-6	Y	-.048	.49
7	MP-7	Y	-.021	1.069
8	MP-8	Y	-.075	.25
9	MP-9	Y	-.048	1.49
10	MP-1	Y	-.109	4
11	MP-2	Y	-.081	4
12	MP-4	Y	-.109	4
13	MP-5	Y	-.081	4
14	MP-7	Y	-.109	4
15	MP-8	Y	-.081	4
16	MP-1	Y	-.021	6.931
17	MP-2	Y	-.048	4.01
18	MP-3	Y	-.075	7.75
19	MP-4	Y	-.021	6.931
20	MP-5	Y	-.075	7.75
21	MP-6	Y	-.048	3.51
22	MP-7	Y	-.021	6.931
23	MP-8	Y	-.075	7.75
24	MP-9	Y	-.048	4.51

**Member Point Loads (BLC 2 : 0 Wind - No Ice)**

	Member Label	Direction	Magnitude[(k.k-ft)]	Location[ft.%]
1	MP-1	X	-.133	1.069
2	MP-2	X	-.106	.99
3	MP-3	X	-.246	.25
4	MP-4	X	-.081	1.069
5	MP-5	X	-.128	.25
6	MP-6	X	-.063	.49
7	MP-7	X	-.081	1.069
8	MP-8	X	-.128	.25
9	MP-9	X	-.063	1.49
10	MP-1	X	-.072	4
11	MP-2	X	-.096	4
12	MP-4	X	-.06	4
13	MP-5	X	-.059	4
14	MP-7	X	-.06	4
15	MP-8	X	-.059	4
16	MP-1	X	-.133	6.931
17	MP-2	X	-.106	4.01
18	MP-3	X	-.246	7.75



Company : Tower Engineering Professionals  
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**Member Point Loads (BLC 2 : 0 Wind - No Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
19	MP-4	X	-0.81	6.931
20	MP-5	X	-1.28	7.75
21	MP-6	X	-0.63	3.51
22	MP-7	X	-0.81	6.931
23	MP-8	X	-1.28	7.75
24	MP-9	X	-0.63	4.51

**Member Point Loads (BLC 3 : 30 Wind - No Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-1	1.069
2	MP-2	X	-0.79	.99
3	MP-3	X	-1.79	.25
4	MP-4	X	-0.55	1.069
5	MP-5	X	-0.77	.25
6	MP-6	X	-0.42	.49
7	MP-7	X	-1	1.069
8	MP-8	X	-1.79	.25
9	MP-9	X	-0.79	1.49
10	MP-1	X	-0.59	4
11	MP-2	X	-0.73	4
12	MP-4	X	-0.49	4
13	MP-5	X	-0.41	4
14	MP-7	X	-0.59	4
15	MP-8	X	-0.73	4
16	MP-1	X	-1	6.931
17	MP-2	X	-0.79	4.01
18	MP-3	X	-1.79	7.75
19	MP-4	X	-0.55	6.931
20	MP-5	X	-0.77	7.75
21	MP-6	X	-0.42	3.51
22	MP-7	X	-1	6.931
23	MP-8	X	-1.79	7.75
24	MP-9	X	-0.79	4.51
25	MP-1	Z	-0.58	1.069
26	MP-2	Z	-0.46	.99
27	MP-3	Z	-1.03	.25
28	MP-4	Z	-0.32	1.069
29	MP-5	Z	-0.45	.25
30	MP-6	Z	-0.24	.49
31	MP-7	Z	-0.58	1.069
32	MP-8	Z	-1.03	.25
33	MP-9	Z	-0.46	1.49
34	MP-1	Z	-0.34	4
35	MP-2	Z	-0.42	4
36	MP-4	Z	-0.28	4
37	MP-5	Z	-0.23	4
38	MP-7	Z	-0.34	4
39	MP-8	Z	-0.42	4
40	MP-1	Z	-0.58	6.931
41	MP-2	Z	-0.46	4.01
42	MP-3	Z	-1.03	7.75
43	MP-4	Z	-0.32	6.931
44	MP-5	Z	-0.45	7.75
45	MP-6	Z	-0.24	3.51
46	MP-7	Z	-0.58	6.931
47	MP-8	Z	-1.03	7.75



Company : Tower Engineering Professionals  
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**Member Point Loads (BLC 3 : 30 Wind - No Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
48	MP-9	Z	-0.46	4.51

**Member Point Loads (BLC 4 : 45 Wind - No Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-0.69	1.069
2	MP-2	X	-0.54	.99
3	MP-3	X	-1.18	.25
4	MP-4	X	-0.48	1.069
5	MP-5	X	-0.7	.25
6	MP-6	X	-0.37	.49
7	MP-7	X	-0.9	1.069
8	MP-8	X	-1.66	.25
9	MP-9	X	-0.72	1.49
10	MP-1	X	-0.45	4
11	MP-2	X	-0.51	4
12	MP-4	X	-0.41	4
13	MP-5	X	-0.35	4
14	MP-7	X	-0.5	4
15	MP-8	X	-0.66	4
16	MP-1	X	-0.69	6.931
17	MP-2	X	-0.54	4.01
18	MP-3	X	-1.18	7.75
19	MP-4	X	-0.48	6.931
20	MP-5	X	-0.7	7.75
21	MP-6	X	-0.37	3.51
22	MP-7	X	-0.9	6.931
23	MP-8	X	-1.66	7.75
24	MP-9	X	-0.72	4.51
25	MP-1	Z	-0.69	1.069
26	MP-2	Z	-0.54	.99
27	MP-3	Z	-1.18	.25
28	MP-4	Z	-0.48	1.069
29	MP-5	Z	-0.7	.25
30	MP-6	Z	-0.37	.49
31	MP-7	Z	-0.9	1.069
32	MP-8	Z	-1.66	.25
33	MP-9	Z	-0.72	1.49
34	MP-1	Z	-0.45	4
35	MP-2	Z	-0.51	4
36	MP-4	Z	-0.41	4
37	MP-5	Z	-0.35	4
38	MP-7	Z	-0.5	4
39	MP-8	Z	-0.66	4
40	MP-1	Z	-0.69	6.931
41	MP-2	Z	-0.54	4.01
42	MP-3	Z	-1.18	7.75
43	MP-4	Z	-0.48	6.931
44	MP-5	Z	-0.7	7.75
45	MP-6	Z	-0.37	3.51
46	MP-7	Z	-0.9	6.931
47	MP-8	Z	-1.66	7.75
48	MP-9	Z	-0.72	4.51

**Member Point Loads (BLC 5 : 60 Wind - No Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-0.4	1.069



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**Member Point Loads (BLC 5 : 60 Wind - No Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
2	MP-2	X	-0.31	.99
3	MP-3	X	-0.64	.25
4	MP-4	X	-0.04	1.069
5	MP-5	X	-0.64	.25
6	MP-6	X	-0.31	.49
7	MP-7	X	-0.66	1.069
8	MP-8	X	-0.123	.25
9	MP-9	X	-0.53	1.49
10	MP-1	X	-0.03	4
11	MP-2	X	-0.03	4
12	MP-4	X	-0.03	4
13	MP-5	X	-0.03	4
14	MP-7	X	-0.036	4
15	MP-8	X	-0.048	4
16	MP-1	X	-0.04	6.931
17	MP-2	X	-0.031	4.01
18	MP-3	X	-0.064	7.75
19	MP-4	X	-0.04	6.931
20	MP-5	X	-0.064	7.75
21	MP-6	X	-0.031	3.51
22	MP-7	X	-0.066	6.931
23	MP-8	X	-0.123	7.75
24	MP-9	X	-0.053	4.51
25	MP-1	Z	-0.07	1.069
26	MP-2	Z	-0.054	.99
27	MP-3	Z	-0.111	.25
28	MP-4	Z	-0.07	1.069
29	MP-5	Z	-0.111	.25
30	MP-6	Z	-0.054	.49
31	MP-7	Z	-0.115	1.069
32	MP-8	Z	-0.213	.25
33	MP-9	Z	-0.092	1.49
34	MP-1	Z	-0.052	4
35	MP-2	Z	-0.051	4
36	MP-4	Z	-0.052	4
37	MP-5	Z	-0.051	4
38	MP-7	Z	-0.062	4
39	MP-8	Z	-0.083	4
40	MP-1	Z	-0.07	6.931
41	MP-2	Z	-0.054	4.01
42	MP-3	Z	-0.111	7.75
43	MP-4	Z	-0.07	6.931
44	MP-5	Z	-0.111	7.75
45	MP-6	Z	-0.054	3.51
46	MP-7	Z	-0.115	6.931
47	MP-8	Z	-0.213	7.75
48	MP-9	Z	-0.092	4.51

**Member Point Loads (BLC 6 : 90 Wind - No Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Z	-0.64	1.069
2	MP-2	Z	-0.48	.99
3	MP-3	Z	-0.89	.25
4	MP-4	Z	-1.15	1.069
5	MP-5	Z	-0.207	.25
6	MP-6	Z	-0.91	.49



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**Member Point Loads (BLC 6 : 90 Wind - No Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
7	MP-7	Z	-1.15	1.069
8	MP-8	Z	-0.207	.25
9	MP-9	Z	-0.91	1.49
10	MP-1	Z	-0.056	4
11	MP-2	Z	-0.047	4
12	MP-4	Z	-0.068	4
13	MP-5	Z	-0.084	4
14	MP-7	Z	-0.068	4
15	MP-8	Z	-0.084	4
16	MP-1	Z	-0.064	6.931
17	MP-2	Z	-0.048	4.01
18	MP-3	Z	-0.089	7.75
19	MP-4	Z	-1.15	6.931
20	MP-5	Z	-0.207	7.75
21	MP-6	Z	-0.091	3.51
22	MP-7	Z	-1.15	6.931
23	MP-8	Z	-0.207	7.75
24	MP-9	Z	-0.91	4.51

**Member Point Loads (BLC 7 : 120 Wind - No Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.04	1.069
2	MP-2	X	.031	.99
3	MP-3	X	.064	.25
4	MP-4	X	.066	1.069
5	MP-5	X	.123	.25
6	MP-6	X	.053	.49
7	MP-7	X	.04	1.069
8	MP-8	X	.064	.25
9	MP-9	X	.031	1.49
10	MP-1	X	.03	4
11	MP-2	X	.03	4
12	MP-4	X	.036	4
13	MP-5	X	.048	4
14	MP-7	X	.03	4
15	MP-8	X	.03	4
16	MP-1	X	.04	6.931
17	MP-2	X	.031	4.01
18	MP-3	X	.064	7.75
19	MP-4	X	.066	6.931
20	MP-5	X	.123	7.75
21	MP-6	X	.053	3.51
22	MP-7	X	.04	6.931
23	MP-8	X	.064	7.75
24	MP-9	X	.031	4.51
25	MP-1	Z	-0.07	1.069
26	MP-2	Z	-0.054	.99
27	MP-3	Z	-0.111	.25
28	MP-4	Z	-0.115	1.069
29	MP-5	Z	-0.213	.25
30	MP-6	Z	-0.092	.49
31	MP-7	Z	-0.07	1.069
32	MP-8	Z	-0.111	.25
33	MP-9	Z	-0.054	1.49
34	MP-1	Z	-0.052	4
35	MP-2	Z	-0.051	4



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**Member Point Loads (BLC 7 : 120 Wind - No Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
36	MP-4	Z	-062	4
37	MP-5	Z	-083	4
38	MP-7	Z	-052	4
39	MP-8	Z	-051	4
40	MP-1	Z	-07	6.931
41	MP-2	Z	-054	4.01
42	MP-3	Z	-111	7.75
43	MP-4	Z	-115	6.931
44	MP-5	Z	-213	7.75
45	MP-6	Z	-092	3.51
46	MP-7	Z	-07	6.931
47	MP-8	Z	-111	7.75
48	MP-9	Z	-054	4.51

**Member Point Loads (BLC 8 : 135 Wind - No Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.069	1.069
2	MP-2	X	.054	.99
3	MP-3	X	.118	.25
4	MP-4	X	.09	1.069
5	MP-5	X	.166	.25
6	MP-6	X	.072	.49
7	MP-7	X	.048	1.069
8	MP-8	X	.07	.25
9	MP-9	X	.037	1.49
10	MP-1	X	.045	4
11	MP-2	X	.051	4
12	MP-4	X	.05	4
13	MP-5	X	.066	4
14	MP-7	X	.041	4
15	MP-8	X	.035	4
16	MP-1	X	.069	6.931
17	MP-2	X	.054	4.01
18	MP-3	X	.118	7.75
19	MP-4	X	.09	6.931
20	MP-5	X	.166	7.75
21	MP-6	X	.072	3.51
22	MP-7	X	.048	6.931
23	MP-8	X	.07	7.75
24	MP-9	X	.037	4.51
25	MP-1	Z	-069	1.069
26	MP-2	Z	-054	.99
27	MP-3	Z	-118	.25
28	MP-4	Z	-09	1.069
29	MP-5	Z	-166	.25
30	MP-6	Z	-072	.49
31	MP-7	Z	-048	1.069
32	MP-8	Z	-07	.25
33	MP-9	Z	-037	1.49
34	MP-1	Z	-045	4
35	MP-2	Z	-051	4
36	MP-4	Z	-05	4
37	MP-5	Z	-066	4
38	MP-7	Z	-041	4
39	MP-8	Z	-035	4
40	MP-1	Z	-069	6.931



Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
 Model Name : Oxford / Fritz Property (BU 876362)

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**Member Point Loads (BLC 8 : 135 Wind - No Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
41	MP-2	Z	-054	4.01
42	MP-3	Z	-118	7.75
43	MP-4	Z	-09	6.931
44	MP-5	Z	-166	7.75
45	MP-6	Z	-072	3.51
46	MP-7	Z	-048	6.931
47	MP-8	Z	-07	7.75
48	MP-9	Z	-037	4.51

**Member Point Loads (BLC 9 : 150 Wind - No Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.1	1.069
2	MP-2	X	.079	.99
3	MP-3	X	.179	.25
4	MP-4	X	.1	1.069
5	MP-5	X	.179	.25
6	MP-6	X	.079	.49
7	MP-7	X	.055	1.069
8	MP-8	X	.077	.25
9	MP-9	X	.042	1.49
10	MP-1	X	.059	4
11	MP-2	X	.073	4
12	MP-4	X	.059	4
13	MP-5	X	.073	4
14	MP-7	X	.049	4
15	MP-8	X	.041	4
16	MP-1	X	.1	6.931
17	MP-2	X	.079	4.01
18	MP-3	X	.179	7.75
19	MP-4	X	.1	6.931
20	MP-5	X	.179	7.75
21	MP-6	X	.079	3.51
22	MP-7	X	.055	6.931
23	MP-8	X	.077	7.75
24	MP-9	X	.042	4.51
25	MP-1	Z	-.058	1.069
26	MP-2	Z	-.046	.99
27	MP-3	Z	-.103	.25
28	MP-4	Z	-.058	1.069
29	MP-5	Z	-.103	.25
30	MP-6	Z	-.046	.49
31	MP-7	Z	-.032	1.069
32	MP-8	Z	-.045	.25
33	MP-9	Z	-.024	1.49
34	MP-1	Z	-.034	4
35	MP-2	Z	-.042	4
36	MP-4	Z	-.034	4
37	MP-5	Z	-.042	4
38	MP-7	Z	-.028	4
39	MP-8	Z	-.023	4
40	MP-1	Z	-.058	6.931
41	MP-2	Z	-.046	4.01
42	MP-3	Z	-.103	7.75
43	MP-4	Z	-.058	6.931
44	MP-5	Z	-.103	7.75
45	MP-6	Z	-.046	3.51



Company : Tower Engineering Professionals  
 Designer : AJS  
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 Model Name : Oxford / Fritz Property (BU 876362)

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**Member Point Loads (BLC 9 : 150 Wind - No Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
46	MP-7	Z	-.032	6.931
47	MP-8	Z	-.045	7.75
48	MP-9	Z	-.024	4.51

**Member Point Loads (BLC 10 : 180 Wind - No Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.133	1.069
2	MP-2	X	.106	.99
3	MP-3	X	.246	.25
4	MP-4	X	.081	1.069
5	MP-5	X	.128	.25
6	MP-6	X	.063	.49
7	MP-7	X	.081	1.069
8	MP-8	X	.128	.25
9	MP-9	X	.063	1.49
10	MP-1	X	.072	4
11	MP-2	X	.096	4
12	MP-4	X	.06	4
13	MP-5	X	.059	4
14	MP-7	X	.06	4
15	MP-8	X	.059	4
16	MP-1	X	.133	6.931
17	MP-2	X	.106	4.01
18	MP-3	X	.246	7.75
19	MP-4	X	.081	6.931
20	MP-5	X	.128	7.75
21	MP-6	X	.063	3.51
22	MP-7	X	.081	6.931
23	MP-8	X	.128	7.75
24	MP-9	X	.063	4.51

**Member Point Loads (BLC 11 : 210 Wind - No Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.1	1.069
2	MP-2	X	.079	.99
3	MP-3	X	.179	.25
4	MP-4	X	.055	1.069
5	MP-5	X	.077	.25
6	MP-6	X	.042	.49
7	MP-7	X	.1	1.069
8	MP-8	X	.179	.25
9	MP-9	X	.079	1.49
10	MP-1	X	.059	4
11	MP-2	X	.073	4
12	MP-4	X	.049	4
13	MP-5	X	.041	4
14	MP-7	X	.059	4
15	MP-8	X	.073	4
16	MP-1	X	.1	6.931
17	MP-2	X	.079	4.01
18	MP-3	X	.179	7.75
19	MP-4	X	.055	6.931
20	MP-5	X	.077	7.75
21	MP-6	X	.042	3.51
22	MP-7	X	.1	6.931
23	MP-8	X	.179	7.75



Company : Tower Engineering Professionals  
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**Member Point Loads (BLC 11 : 210 Wind - No Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
24	MP-9	X	.079	4.51
25	MP-1	Z	.058	1.069
26	MP-2	Z	.046	.99
27	MP-3	Z	.103	.25
28	MP-4	Z	.032	1.069
29	MP-5	Z	.045	.25
30	MP-6	Z	.024	.49
31	MP-7	Z	.058	1.069
32	MP-8	Z	.103	.25
33	MP-9	Z	.046	1.49
34	MP-1	Z	.034	4
35	MP-2	Z	.042	4
36	MP-4	Z	.028	4
37	MP-5	Z	.023	4
38	MP-7	Z	.034	4
39	MP-8	Z	.042	4
40	MP-1	Z	.058	6.931
41	MP-2	Z	.046	4.01
42	MP-3	Z	.103	7.75
43	MP-4	Z	.032	6.931
44	MP-5	Z	.045	7.75
45	MP-6	Z	.024	3.51
46	MP-7	Z	.058	6.931
47	MP-8	Z	.103	7.75
48	MP-9	Z	.046	4.51

**Member Point Loads (BLC 12 : 225 Wind - No Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.069	1.069
2	MP-2	X	.054	.99
3	MP-3	X	.118	.25
4	MP-4	X	.048	1.069
5	MP-5	X	.07	.25
6	MP-6	X	.037	.49
7	MP-7	X	.09	1.069
8	MP-8	X	.166	.25
9	MP-9	X	.072	1.49
10	MP-1	X	.045	4
11	MP-2	X	.051	4
12	MP-4	X	.041	4
13	MP-5	X	.035	4
14	MP-7	X	.05	4
15	MP-8	X	.066	4
16	MP-1	X	.069	6.931
17	MP-2	X	.054	4.01
18	MP-3	X	.118	7.75
19	MP-4	X	.048	6.931
20	MP-5	X	.07	7.75
21	MP-6	X	.037	3.51
22	MP-7	X	.09	6.931
23	MP-8	X	.166	7.75
24	MP-9	X	.072	4.51
25	MP-1	Z	.069	1.069
26	MP-2	Z	.054	.99
27	MP-3	Z	.118	.25
28	MP-4	Z	.048	1.069



Company : Tower Engineering Professionals  
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**Member Point Loads (BLC 12 : 225 Wind - No Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
29	MP-5	Z	.07	.25
30	MP-6	Z	.037	.49
31	MP-7	Z	.09	1.069
32	MP-8	Z	.166	.25
33	MP-9	Z	.072	1.49
34	MP-1	Z	.045	4
35	MP-2	Z	.051	4
36	MP-4	Z	.041	4
37	MP-5	Z	.035	4
38	MP-7	Z	.05	4
39	MP-8	Z	.066	4
40	MP-1	Z	.069	6.931
41	MP-2	Z	.054	4.01
42	MP-3	Z	.118	7.75
43	MP-4	Z	.048	6.931
44	MP-5	Z	.07	7.75
45	MP-6	Z	.037	3.51
46	MP-7	Z	.09	6.931
47	MP-8	Z	.166	7.75
48	MP-9	Z	.072	4.51

**Member Point Loads (BLC 13 : 240 Wind - No Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.04	1.069
2	MP-2	X	.031	.99
3	MP-3	X	.064	.25
4	MP-4	X	.04	1.069
5	MP-5	X	.064	.25
6	MP-6	X	.031	.49
7	MP-7	X	.066	1.069
8	MP-8	X	.123	.25
9	MP-9	X	.053	1.49
10	MP-1	X	.03	4
11	MP-2	X	.03	4
12	MP-4	X	.03	4
13	MP-5	X	.03	4
14	MP-7	X	.036	4
15	MP-8	X	.048	4
16	MP-1	X	.04	6.931
17	MP-2	X	.031	4.01
18	MP-3	X	.064	7.75
19	MP-4	X	.04	6.931
20	MP-5	X	.064	7.75
21	MP-6	X	.031	3.51
22	MP-7	X	.066	6.931
23	MP-8	X	.123	7.75
24	MP-9	X	.053	4.51
25	MP-1	Z	.07	1.069
26	MP-2	Z	.054	.99
27	MP-3	Z	.111	.25
28	MP-4	Z	.07	1.069
29	MP-5	Z	.111	.25
30	MP-6	Z	.054	.49
31	MP-7	Z	.115	1.069
32	MP-8	Z	.213	.25
33	MP-9	Z	.092	1.49



Company : Tower Engineering Professionals  
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**Member Point Loads (BLC 13 : 240 Wind - No Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
34	MP-1	Z	.052	4
35	MP-2	Z	.051	4
36	MP-4	Z	.052	4
37	MP-5	Z	.051	4
38	MP-7	Z	.062	4
39	MP-8	Z	.083	4
40	MP-1	Z	.07	6.931
41	MP-2	Z	.054	4.01
42	MP-3	Z	.111	7.75
43	MP-4	Z	.07	6.931
44	MP-5	Z	.111	7.75
45	MP-6	Z	.054	3.51
46	MP-7	Z	.115	6.931
47	MP-8	Z	.213	7.75
48	MP-9	Z	.092	4.51

**Member Point Loads (BLC 14 : 270 Wind - No Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Z	.064	1.069
2	MP-2	Z	.048	.99
3	MP-3	Z	.089	.25
4	MP-4	Z	.115	1.069
5	MP-5	Z	.207	.25
6	MP-6	Z	.091	.49
7	MP-7	Z	.115	1.069
8	MP-8	Z	.207	.25
9	MP-9	Z	.091	1.49
10	MP-1	Z	.056	4
11	MP-2	Z	.047	4
12	MP-4	Z	.068	4
13	MP-5	Z	.084	4
14	MP-7	Z	.068	4
15	MP-8	Z	.084	4
16	MP-1	Z	.064	6.931
17	MP-2	Z	.048	4.01
18	MP-3	Z	.089	7.75
19	MP-4	Z	.115	6.931
20	MP-5	Z	.207	7.75
21	MP-6	Z	.091	3.51
22	MP-7	Z	.115	6.931
23	MP-8	Z	.207	7.75
24	MP-9	Z	.091	4.51

**Member Point Loads (BLC 15 : 300 Wind - No Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.04	1.069
2	MP-2	X	-.031	.99
3	MP-3	X	-.064	.25
4	MP-4	X	-.066	1.069
5	MP-5	X	-.123	.25
6	MP-6	X	-.053	.49
7	MP-7	X	-.04	1.069
8	MP-8	X	-.064	.25
9	MP-9	X	-.031	1.49
10	MP-1	X	-.03	4
11	MP-2	X	-.03	4



Company : Tower Engineering Professionals  
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**Member Point Loads (BLC 15 : 300 Wind - No Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
12	MP-4	X	-036	4
13	MP-5	X	-048	4
14	MP-7	X	-03	4
15	MP-8	X	-03	4
16	MP-1	X	-04	6.931
17	MP-2	X	-031	4.01
18	MP-3	X	-064	7.75
19	MP-4	X	-066	6.931
20	MP-5	X	-123	7.75
21	MP-6	X	-053	3.51
22	MP-7	X	-04	6.931
23	MP-8	X	-064	7.75
24	MP-9	X	-031	4.51
25	MP-1	Z	.07	1.069
26	MP-2	Z	.054	.99
27	MP-3	Z	.111	.25
28	MP-4	Z	.115	1.069
29	MP-5	Z	.213	.25
30	MP-6	Z	.092	.49
31	MP-7	Z	.07	1.069
32	MP-8	Z	.111	.25
33	MP-9	Z	.054	1.49
34	MP-1	Z	.052	4
35	MP-2	Z	.051	4
36	MP-4	Z	.062	4
37	MP-5	Z	.083	4
38	MP-7	Z	.052	4
39	MP-8	Z	.051	4
40	MP-1	Z	.07	6.931
41	MP-2	Z	.054	4.01
42	MP-3	Z	.111	7.75
43	MP-4	Z	.115	6.931
44	MP-5	Z	.213	7.75
45	MP-6	Z	.092	3.51
46	MP-7	Z	.07	6.931
47	MP-8	Z	.111	7.75
48	MP-9	Z	.054	4.51

**Member Point Loads (BLC 16 : 315 Wind - No Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-069	1.069
2	MP-2	X	-054	.99
3	MP-3	X	-118	.25
4	MP-4	X	-09	1.069
5	MP-5	X	-166	.25
6	MP-6	X	-072	.49
7	MP-7	X	-048	1.069
8	MP-8	X	-07	.25
9	MP-9	X	-037	1.49
10	MP-1	X	-045	4
11	MP-2	X	-051	4
12	MP-4	X	-05	4
13	MP-5	X	-066	4
14	MP-7	X	-041	4
15	MP-8	X	-035	4
16	MP-1	X	-069	6.931



Company : Tower Engineering Professionals  
 Designer : AJS  
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 Model Name : Oxford / Fritz Property (BU 876362)

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**Member Point Loads (BLC 16 : 315 Wind - No Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
17	MP-2	X	-054	4.01
18	MP-3	X	-118	7.75
19	MP-4	X	-09	6.931
20	MP-5	X	-166	7.75
21	MP-6	X	-072	3.51
22	MP-7	X	-048	6.931
23	MP-8	X	-07	7.75
24	MP-9	X	-037	4.51
25	MP-1	Z	.069	1.069
26	MP-2	Z	.054	.99
27	MP-3	Z	.118	.25
28	MP-4	Z	.09	1.069
29	MP-5	Z	.166	.25
30	MP-6	Z	.072	.49
31	MP-7	Z	.048	1.069
32	MP-8	Z	.07	.25
33	MP-9	Z	.037	1.49
34	MP-1	Z	.045	4
35	MP-2	Z	.051	4
36	MP-4	Z	.05	4
37	MP-5	Z	.066	4
38	MP-7	Z	.041	4
39	MP-8	Z	.035	4
40	MP-1	Z	.069	6.931
41	MP-2	Z	.054	4.01
42	MP-3	Z	.118	7.75
43	MP-4	Z	.09	6.931
44	MP-5	Z	.166	7.75
45	MP-6	Z	.072	3.51
46	MP-7	Z	.048	6.931
47	MP-8	Z	.07	7.75
48	MP-9	Z	.037	4.51

**Member Point Loads (BLC 17 : 330 Wind - No Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-1	1.069
2	MP-2	X	-079	.99
3	MP-3	X	-179	.25
4	MP-4	X	-1	1.069
5	MP-5	X	-179	.25
6	MP-6	X	-079	.49
7	MP-7	X	-055	1.069
8	MP-8	X	-077	.25
9	MP-9	X	-042	1.49
10	MP-1	X	-059	4
11	MP-2	X	-073	4
12	MP-4	X	-059	4
13	MP-5	X	-073	4
14	MP-7	X	-049	4
15	MP-8	X	-041	4
16	MP-1	X	-1	6.931
17	MP-2	X	-079	4.01
18	MP-3	X	-179	7.75
19	MP-4	X	-1	6.931
20	MP-5	X	-179	7.75
21	MP-6	X	-079	3.51



Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
 Model Name : Oxford / Fritz Property (BU 876362)

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**Member Point Loads (BLC 17 : 330 Wind - No Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
22	MP-7	X	-0.055	6.931
23	MP-8	X	-0.077	7.75
24	MP-9	X	-0.042	4.51
25	MP-1	Z	-0.058	1.069
26	MP-2	Z	-0.046	.99
27	MP-3	Z	-0.103	.25
28	MP-4	Z	-0.058	1.069
29	MP-5	Z	-0.103	.25
30	MP-6	Z	-0.046	.49
31	MP-7	Z	-0.032	1.069
32	MP-8	Z	-0.045	.25
33	MP-9	Z	-0.024	1.49
34	MP-1	Z	-0.034	4
35	MP-2	Z	-0.042	4
36	MP-4	Z	-0.034	4
37	MP-5	Z	-0.042	4
38	MP-7	Z	-0.028	4
39	MP-8	Z	-0.023	4
40	MP-1	Z	-0.058	6.931
41	MP-2	Z	-0.046	4.01
42	MP-3	Z	-0.103	7.75
43	MP-4	Z	-0.058	6.931
44	MP-5	Z	-0.103	7.75
45	MP-6	Z	-0.046	3.51
46	MP-7	Z	-0.032	6.931
47	MP-8	Z	-0.045	7.75
48	MP-9	Z	-0.024	4.51

**Member Point Loads (BLC 18 : Ice Weight)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Y	-0.054	1.069
2	MP-2	Y	-0.054	.99
3	MP-3	Y	-0.137	.25
4	MP-4	Y	-0.054	1.069
5	MP-5	Y	-0.137	.25
6	MP-6	Y	-0.054	.49
7	MP-7	Y	-0.054	1.069
8	MP-8	Y	-0.137	.25
9	MP-9	Y	-0.054	1.49
10	MP-1	Y	-0.056	4
11	MP-2	Y	-0.056	4
12	MP-4	Y	-0.056	4
13	MP-5	Y	-0.056	4
14	MP-7	Y	-0.056	4
15	MP-8	Y	-0.056	4
16	MP-1	Y	-0.054	6.931
17	MP-2	Y	-0.054	4.01
18	MP-3	Y	-0.137	7.75
19	MP-4	Y	-0.054	6.931
20	MP-5	Y	-0.137	7.75
21	MP-6	Y	-0.054	3.51
22	MP-7	Y	-0.054	6.931
23	MP-8	Y	-0.137	7.75
24	MP-9	Y	-0.054	4.51



Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
 Model Name : Oxford / Fritz Property (BU 876362)

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**Member Point Loads (BLC 19 : 0 Wind - Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-0.029	1.069
2	MP-2	X	-0.022	.99
3	MP-3	X	-0.051	.25
4	MP-4	X	-0.029	1.069
5	MP-5	X	-0.051	.25
6	MP-6	X	-0.022	.49
7	MP-7	X	-0.029	1.069
8	MP-8	X	-0.051	.25
9	MP-9	X	-0.022	1.49
10	MP-1	X	-0.017	4
11	MP-2	X	-0.022	4
12	MP-4	X	-0.017	4
13	MP-5	X	-0.022	4
14	MP-7	X	-0.017	4
15	MP-8	X	-0.022	4
16	MP-1	X	-0.029	6.931
17	MP-2	X	-0.022	4.01
18	MP-3	X	-0.051	7.75
19	MP-4	X	-0.029	6.931
20	MP-5	X	-0.051	7.75
21	MP-6	X	-0.022	3.51
22	MP-7	X	-0.029	6.931
23	MP-8	X	-0.051	7.75
24	MP-9	X	-0.022	4.51

**Member Point Loads (BLC 20 : 30 Wind - Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-0.022	1.069
2	MP-2	X	-0.017	.99
3	MP-3	X	-0.038	.25
4	MP-4	X	-0.014	1.069
5	MP-5	X	-0.019	.25
6	MP-6	X	-0.01	.49
7	MP-7	X	-0.022	1.069
8	MP-8	X	-0.038	.25
9	MP-9	X	-0.017	1.49
10	MP-1	X	-0.014	4
11	MP-2	X	-0.017	4
12	MP-4	X	-0.012	4
13	MP-5	X	-0.01	4
14	MP-7	X	-0.014	4
15	MP-8	X	-0.017	4
16	MP-1	X	-0.022	6.931
17	MP-2	X	-0.017	4.01
18	MP-3	X	-0.038	7.75
19	MP-4	X	-0.014	6.931
20	MP-5	X	-0.019	7.75
21	MP-6	X	-0.01	3.51
22	MP-7	X	-0.022	6.931
23	MP-8	X	-0.038	7.75
24	MP-9	X	-0.017	4.51
25	MP-1	Z	-0.013	1.069
26	MP-2	Z	-0.01	.99
27	MP-3	Z	-0.022	.25
28	MP-4	Z	-0.008	1.069
29	MP-5	Z	-0.011	.25





Company : Tower Engineering Professionals  
 Designer : AJS  
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**Member Point Loads (BLC 20 : 30 Wind - Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
30	MP-6	Z	-0.06	.49
31	MP-7	Z	-0.13	1.069
32	MP-8	Z	-0.22	.25
33	MP-9	Z	-.01	1.49
34	MP-1	Z	-.008	4
35	MP-2	Z	-.01	4
36	MP-4	Z	-.007	4
37	MP-5	Z	-.006	4
38	MP-7	Z	-.008	4
39	MP-8	Z	-.01	4
40	MP-1	Z	-0.13	6.931
41	MP-2	Z	-.01	4.01
42	MP-3	Z	-0.22	7.75
43	MP-4	Z	-.008	6.931
44	MP-5	Z	-0.11	7.75
45	MP-6	Z	-.006	3.51
46	MP-7	Z	-0.13	6.931
47	MP-8	Z	-0.22	7.75
48	MP-9	Z	-.01	4.51

**Member Point Loads (BLC 21 : 45 Wind - Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-0.16	1.069
2	MP-2	X	-0.12	.99
3	MP-3	X	-0.26	.25
4	MP-4	X	-0.12	1.069
5	MP-5	X	-0.17	.25
6	MP-6	X	-0.09	.49
7	MP-7	X	-.02	1.069
8	MP-8	X	-0.35	.25
9	MP-9	X	-0.15	1.49
10	MP-1	X	-0.11	4
11	MP-2	X	-0.12	4
12	MP-4	X	-.01	4
13	MP-5	X	-0.09	4
14	MP-7	X	-0.12	4
15	MP-8	X	-0.15	4
16	MP-1	X	-0.16	6.931
17	MP-2	X	-0.12	4.01
18	MP-3	X	-0.26	7.75
19	MP-4	X	-0.12	6.931
20	MP-5	X	-0.17	7.75
21	MP-6	X	-0.09	3.51
22	MP-7	X	-.02	6.931
23	MP-8	X	-0.35	7.75
24	MP-9	X	-0.15	4.51
25	MP-1	Z	-0.16	1.069
26	MP-2	Z	-0.12	.99
27	MP-3	Z	-0.26	.25
28	MP-4	Z	-0.12	1.069
29	MP-5	Z	-0.17	.25
30	MP-6	Z	-0.09	.49
31	MP-7	Z	-.02	1.069
32	MP-8	Z	-0.35	.25
33	MP-9	Z	-0.15	1.49
34	MP-1	Z	-0.11	4



Company : Tower Engineering Professionals  
 Designer : AJS  
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 Model Name : Oxford / Fritz Property (BU 876362)

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**Member Point Loads (BLC 21 : 45 Wind - Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
35	MP-2	Z	-0.12	4
36	MP-4	Z	-.01	4
37	MP-5	Z	-0.09	4
38	MP-7	Z	-0.12	4
39	MP-8	Z	-0.15	4
40	MP-1	Z	-0.16	6.931
41	MP-2	Z	-0.12	4.01
42	MP-3	Z	-0.26	7.75
43	MP-4	Z	-0.12	6.931
44	MP-5	Z	-0.17	7.75
45	MP-6	Z	-0.09	3.51
46	MP-7	Z	-.02	6.931
47	MP-8	Z	-0.35	7.75
48	MP-9	Z	-0.15	4.51

**Member Point Loads (BLC 22 : 60 Wind - Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.01	1.069
2	MP-2	X	-0.07	.99
3	MP-3	X	-0.15	.25
4	MP-4	X	-.01	1.069
5	MP-5	X	-0.15	.25
6	MP-6	X	-0.07	.49
7	MP-7	X	-0.14	1.069
8	MP-8	X	-0.26	.25
9	MP-9	X	-0.11	1.49
10	MP-1	X	-0.07	4
11	MP-2	X	-0.07	4
12	MP-4	X	-0.07	4
13	MP-5	X	-0.07	4
14	MP-7	X	-0.08	4
15	MP-8	X	-0.11	4
16	MP-1	X	-.01	6.931
17	MP-2	X	-0.07	4.01
18	MP-3	X	-0.15	7.75
19	MP-4	X	-.01	6.931
20	MP-5	X	-0.15	7.75
21	MP-6	X	-0.07	3.51
22	MP-7	X	-0.14	6.931
23	MP-8	X	-0.26	7.75
24	MP-9	X	-0.11	4.51
25	MP-1	Z	-0.17	1.069
26	MP-2	Z	-0.12	.99
27	MP-3	Z	-0.25	.25
28	MP-4	Z	-0.17	1.069
29	MP-5	Z	-0.25	.25
30	MP-6	Z	-0.12	.49
31	MP-7	Z	-0.25	1.069
32	MP-8	Z	-0.44	.25
33	MP-9	Z	-0.19	1.49
34	MP-1	Z	-0.13	4
35	MP-2	Z	-0.13	4
36	MP-4	Z	-0.13	4
37	MP-5	Z	-0.13	4
38	MP-7	Z	-0.15	4
39	MP-8	Z	-0.19	4



Company : Tower Engineering Professionals  
 Designer : AJS  
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**Member Point Loads (BLC 22 : 60 Wind - Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
40	MP-1	Z	-0.17	6.931
41	MP-2	Z	-0.12	4.01
42	MP-3	Z	-0.25	7.75
43	MP-4	Z	-0.17	6.931
44	MP-5	Z	-0.25	7.75
45	MP-6	Z	-0.12	3.51
46	MP-7	Z	-0.25	6.931
47	MP-8	Z	-0.44	7.75
48	MP-9	Z	-0.19	4.51

**Member Point Loads (BLC 23 : 90 Wind - Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Z	-0.16	1.069
2	MP-2	Z	-0.11	.99
3	MP-3	Z	-0.22	.25
4	MP-4	Z	-0.16	1.069
5	MP-5	Z	-0.22	.25
6	MP-6	Z	-0.11	.49
7	MP-7	Z	-0.16	1.069
8	MP-8	Z	-0.22	.25
9	MP-9	Z	-0.11	1.49
10	MP-1	Z	-0.14	4
11	MP-2	Z	-0.12	4
12	MP-4	Z	-0.14	4
13	MP-5	Z	-0.12	4
14	MP-7	Z	-0.14	4
15	MP-8	Z	-0.12	4
16	MP-1	Z	-0.16	6.931
17	MP-2	Z	-0.11	4.01
18	MP-3	Z	-0.22	7.75
19	MP-4	Z	-0.16	6.931
20	MP-5	Z	-0.22	7.75
21	MP-6	Z	-0.11	3.51
22	MP-7	Z	-0.16	6.931
23	MP-8	Z	-0.22	7.75
24	MP-9	Z	-0.11	4.51

**Member Point Loads (BLC 24 : 120 Wind - Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.01	1.069
2	MP-2	X	.007	.99
3	MP-3	X	.015	.25
4	MP-4	X	.014	1.069
5	MP-5	X	.026	.25
6	MP-6	X	.011	.49
7	MP-7	X	.01	1.069
8	MP-8	X	.015	.25
9	MP-9	X	.007	1.49
10	MP-1	X	.007	4
11	MP-2	X	.007	4
12	MP-4	X	.008	4
13	MP-5	X	.011	4
14	MP-7	X	.007	4
15	MP-8	X	.007	4
16	MP-1	X	.01	6.931
17	MP-2	X	.007	4.01



Company : Tower Engineering Professionals  
 Designer : AJS  
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**Member Point Loads (BLC 24 : 120 Wind - Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
18	MP-3	X	.015	7.75
19	MP-4	X	.014	6.931
20	MP-5	X	.026	7.75
21	MP-6	X	.011	3.51
22	MP-7	X	.01	6.931
23	MP-8	X	.015	7.75
24	MP-9	X	.007	4.51
25	MP-1	Z	-0.17	1.069
26	MP-2	Z	-0.12	.99
27	MP-3	Z	-0.25	.25
28	MP-4	Z	-0.25	1.069
29	MP-5	Z	-0.44	.25
30	MP-6	Z	-0.19	.49
31	MP-7	Z	-0.17	1.069
32	MP-8	Z	-0.25	.25
33	MP-9	Z	-0.12	1.49
34	MP-1	Z	-0.13	4
35	MP-2	Z	-0.13	4
36	MP-4	Z	-0.15	4
37	MP-5	Z	-0.19	4
38	MP-7	Z	-0.13	4
39	MP-8	Z	-0.13	4
40	MP-1	Z	-0.17	6.931
41	MP-2	Z	-0.12	4.01
42	MP-3	Z	-0.25	7.75
43	MP-4	Z	-0.25	6.931
44	MP-5	Z	-0.44	7.75
45	MP-6	Z	-0.19	3.51
46	MP-7	Z	-0.17	6.931
47	MP-8	Z	-0.25	7.75
48	MP-9	Z	-0.12	4.51

**Member Point Loads (BLC 25 : 135 Wind - Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.016	1.069
2	MP-2	X	.012	.99
3	MP-3	X	.026	.25
4	MP-4	X	.02	1.069
5	MP-5	X	.035	.25
6	MP-6	X	.015	.49
7	MP-7	X	.012	1.069
8	MP-8	X	.017	.25
9	MP-9	X	.009	1.49
10	MP-1	X	.011	4
11	MP-2	X	.012	4
12	MP-4	X	.012	4
13	MP-5	X	.015	4
14	MP-7	X	.01	4
15	MP-8	X	.009	4
16	MP-1	X	.016	6.931
17	MP-2	X	.012	4.01
18	MP-3	X	.026	7.75
19	MP-4	X	.02	6.931
20	MP-5	X	.035	7.75
21	MP-6	X	.015	3.51
22	MP-7	X	.012	6.931



Company : Tower Engineering Professionals  
 Designer : AJS  
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**Member Point Loads (BLC 25 : 135 Wind - Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
23	MP-8	X	.017	7.75
24	MP-9	X	.009	4.51
25	MP-1	Z	-.016	1.069
26	MP-2	Z	-.012	.99
27	MP-3	Z	-.026	.25
28	MP-4	Z	-.02	1.069
29	MP-5	Z	-.035	.25
30	MP-6	Z	-.015	.49
31	MP-7	Z	-.012	1.069
32	MP-8	Z	-.017	.25
33	MP-9	Z	-.009	1.49
34	MP-1	Z	-.011	4
35	MP-2	Z	-.012	4
36	MP-4	Z	-.012	4
37	MP-5	Z	-.015	4
38	MP-7	Z	-.01	4
39	MP-8	Z	-.009	4
40	MP-1	Z	-.016	6.931
41	MP-2	Z	-.012	4.01
42	MP-3	Z	-.026	7.75
43	MP-4	Z	-.02	6.931
44	MP-5	Z	-.035	7.75
45	MP-6	Z	-.015	3.51
46	MP-7	Z	-.012	6.931
47	MP-8	Z	-.017	7.75
48	MP-9	Z	-.009	4.51

**Member Point Loads (BLC 26 : 150 Wind - Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.022	1.069
2	MP-2	X	.017	.99
3	MP-3	X	.038	.25
4	MP-4	X	.022	1.069
5	MP-5	X	.038	.25
6	MP-6	X	.017	.49
7	MP-7	X	.014	1.069
8	MP-8	X	.019	.25
9	MP-9	X	.01	1.49
10	MP-1	X	.014	4
11	MP-2	X	.017	4
12	MP-4	X	.014	4
13	MP-5	X	.017	4
14	MP-7	X	.012	4
15	MP-8	X	.01	4
16	MP-1	X	.022	6.931
17	MP-2	X	.017	4.01
18	MP-3	X	.038	7.75
19	MP-4	X	.022	6.931
20	MP-5	X	.038	7.75
21	MP-6	X	.017	3.51
22	MP-7	X	.014	6.931
23	MP-8	X	.019	7.75
24	MP-9	X	.01	4.51
25	MP-1	Z	-.013	1.069
26	MP-2	Z	-.01	.99
27	MP-3	Z	-.022	.25



Company : Tower Engineering Professionals  
 Designer : AJS  
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 Model Name : Oxford / Fritz Property (BU 876362)

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**Member Point Loads (BLC 26 : 150 Wind - Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
28	MP-4	Z	-.013	1.069
29	MP-5	Z	-.022	.25
30	MP-6	Z	-.01	.49
31	MP-7	Z	-.008	1.069
32	MP-8	Z	-.011	.25
33	MP-9	Z	-.006	1.49
34	MP-1	Z	-.008	4
35	MP-2	Z	-.01	4
36	MP-4	Z	-.008	4
37	MP-5	Z	-.01	4
38	MP-7	Z	-.007	4
39	MP-8	Z	-.006	4
40	MP-1	Z	-.013	6.931
41	MP-2	Z	-.01	4.01
42	MP-3	Z	-.022	7.75
43	MP-4	Z	-.013	6.931
44	MP-5	Z	-.022	7.75
45	MP-6	Z	-.01	3.51
46	MP-7	Z	-.008	6.931
47	MP-8	Z	-.011	7.75
48	MP-9	Z	-.006	4.51

**Member Point Loads (BLC 27 : 180 Wind - Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.029	1.069
2	MP-2	X	.022	.99
3	MP-3	X	.051	.25
4	MP-4	X	.029	1.069
5	MP-5	X	.051	.25
6	MP-6	X	.022	.49
7	MP-7	X	.029	1.069
8	MP-8	X	.051	.25
9	MP-9	X	.022	1.49
10	MP-1	X	.017	4
11	MP-2	X	.022	4
12	MP-4	X	.017	4
13	MP-5	X	.022	4
14	MP-7	X	.017	4
15	MP-8	X	.022	4
16	MP-1	X	.029	6.931
17	MP-2	X	.022	4.01
18	MP-3	X	.051	7.75
19	MP-4	X	.029	6.931
20	MP-5	X	.051	7.75
21	MP-6	X	.022	3.51
22	MP-7	X	.029	6.931
23	MP-8	X	.051	7.75
24	MP-9	X	.022	4.51

**Member Point Loads (BLC 28 : 210 Wind - Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.022	1.069
2	MP-2	X	.017	.99
3	MP-3	X	.038	.25
4	MP-4	X	.014	1.069
5	MP-5	X	.019	.25



Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
 Model Name : Oxford / Fritz Property (BU 876362)

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**Member Point Loads (BLC 28 : 210 Wind - Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
6	MP-6	X	.01	.49
7	MP-7	X	.022	1.069
8	MP-8	X	.038	.25
9	MP-9	X	.017	1.49
10	MP-1	X	.014	4
11	MP-2	X	.017	4
12	MP-4	X	.012	4
13	MP-5	X	.01	4
14	MP-7	X	.014	4
15	MP-8	X	.017	4
16	MP-1	X	.022	6.931
17	MP-2	X	.017	4.01
18	MP-3	X	.038	7.75
19	MP-4	X	.014	6.931
20	MP-5	X	.019	7.75
21	MP-6	X	.01	3.51
22	MP-7	X	.022	6.931
23	MP-8	X	.038	7.75
24	MP-9	X	.017	4.51
25	MP-1	Z	.013	1.069
26	MP-2	Z	.01	.99
27	MP-3	Z	.022	.25
28	MP-4	Z	.008	1.069
29	MP-5	Z	.011	.25
30	MP-6	Z	.006	.49
31	MP-7	Z	.013	1.069
32	MP-8	Z	.022	.25
33	MP-9	Z	.01	1.49
34	MP-1	Z	.008	4
35	MP-2	Z	.01	4
36	MP-4	Z	.007	4
37	MP-5	Z	.006	4
38	MP-7	Z	.008	4
39	MP-8	Z	.01	4
40	MP-1	Z	.013	6.931
41	MP-2	Z	.01	4.01
42	MP-3	Z	.022	7.75
43	MP-4	Z	.008	6.931
44	MP-5	Z	.011	7.75
45	MP-6	Z	.006	3.51
46	MP-7	Z	.013	6.931
47	MP-8	Z	.022	7.75
48	MP-9	Z	.01	4.51

**Member Point Loads (BLC 29 : 225 Wind - Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.016	1.069
2	MP-2	X	.012	.99
3	MP-3	X	.026	.25
4	MP-4	X	.012	1.069
5	MP-5	X	.017	.25
6	MP-6	X	.009	.49
7	MP-7	X	.02	1.069
8	MP-8	X	.035	.25
9	MP-9	X	.015	1.49
10	MP-1	X	.011	4



Company : Tower Engineering Professionals  
 Designer : AJS  
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**Member Point Loads (BLC 29 : 225 Wind - Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
11	MP-2	X	.012	4
12	MP-4	X	.01	4
13	MP-5	X	.009	4
14	MP-7	X	.012	4
15	MP-8	X	.015	4
16	MP-1	X	.016	6.931
17	MP-2	X	.012	4.01
18	MP-3	X	.026	7.75
19	MP-4	X	.012	6.931
20	MP-5	X	.017	7.75
21	MP-6	X	.009	3.51
22	MP-7	X	.02	6.931
23	MP-8	X	.035	7.75
24	MP-9	X	.015	4.51
25	MP-1	Z	.016	1.069
26	MP-2	Z	.012	.99
27	MP-3	Z	.026	.25
28	MP-4	Z	.012	1.069
29	MP-5	Z	.017	.25
30	MP-6	Z	.009	.49
31	MP-7	Z	.02	1.069
32	MP-8	Z	.035	.25
33	MP-9	Z	.015	1.49
34	MP-1	Z	.011	4
35	MP-2	Z	.012	4
36	MP-4	Z	.01	4
37	MP-5	Z	.009	4
38	MP-7	Z	.012	4
39	MP-8	Z	.015	4
40	MP-1	Z	.016	6.931
41	MP-2	Z	.012	4.01
42	MP-3	Z	.026	7.75
43	MP-4	Z	.012	6.931
44	MP-5	Z	.017	7.75
45	MP-6	Z	.009	3.51
46	MP-7	Z	.02	6.931
47	MP-8	Z	.035	7.75
48	MP-9	Z	.015	4.51

**Member Point Loads (BLC 30 : 240 Wind - Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.01	1.069
2	MP-2	X	.007	.99
3	MP-3	X	.015	.25
4	MP-4	X	.01	1.069
5	MP-5	X	.015	.25
6	MP-6	X	.007	.49
7	MP-7	X	.014	1.069
8	MP-8	X	.026	.25
9	MP-9	X	.011	1.49
10	MP-1	X	.007	4
11	MP-2	X	.007	4
12	MP-4	X	.007	4
13	MP-5	X	.007	4
14	MP-7	X	.008	4
15	MP-8	X	.011	4



**Member Point Loads (BLC 30 : 240 Wind - Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
16	MP-1	X	.01	6.931
17	MP-2	X	.007	4.01
18	MP-3	X	.015	7.75
19	MP-4	X	.01	6.931
20	MP-5	X	.015	7.75
21	MP-6	X	.007	3.51
22	MP-7	X	.014	6.931
23	MP-8	X	.026	7.75
24	MP-9	X	.011	4.51
25	MP-1	Z	.017	1.069
26	MP-2	Z	.012	.99
27	MP-3	Z	.025	.25
28	MP-4	Z	.017	1.069
29	MP-5	Z	.025	.25
30	MP-6	Z	.012	.49
31	MP-7	Z	.025	1.069
32	MP-8	Z	.044	.25
33	MP-9	Z	.019	1.49
34	MP-1	Z	.013	4
35	MP-2	Z	.013	4
36	MP-4	Z	.013	4
37	MP-5	Z	.013	4
38	MP-7	Z	.015	4
39	MP-8	Z	.019	4
40	MP-1	Z	.017	6.931
41	MP-2	Z	.012	4.01
42	MP-3	Z	.025	7.75
43	MP-4	Z	.017	6.931
44	MP-5	Z	.025	7.75
45	MP-6	Z	.012	3.51
46	MP-7	Z	.025	6.931
47	MP-8	Z	.044	7.75
48	MP-9	Z	.019	4.51

**Member Point Loads (BLC 31 : 270 Wind - Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Z	.016	1.069
2	MP-2	Z	.011	.99
3	MP-3	Z	.022	.25
4	MP-4	Z	.016	1.069
5	MP-5	Z	.022	.25
6	MP-6	Z	.011	.49
7	MP-7	Z	.016	1.069
8	MP-8	Z	.022	.25
9	MP-9	Z	.011	1.49
10	MP-1	Z	.014	4
11	MP-2	Z	.012	4
12	MP-4	Z	.014	4
13	MP-5	Z	.012	4
14	MP-7	Z	.014	4
15	MP-8	Z	.012	4
16	MP-1	Z	.016	6.931
17	MP-2	Z	.011	4.01
18	MP-3	Z	.022	7.75
19	MP-4	Z	.016	6.931
20	MP-5	Z	.022	7.75



**Member Point Loads (BLC 31 : 270 Wind - Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
21	MP-6	Z	.011	3.51
22	MP-7	Z	.016	6.931
23	MP-8	Z	.022	7.75
24	MP-9	Z	.011	4.51

**Member Point Loads (BLC 32 : 300 Wind - Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.01	1.069
2	MP-2	X	-.007	.99
3	MP-3	X	-.015	.25
4	MP-4	X	-.014	1.069
5	MP-5	X	-.026	.25
6	MP-6	X	-.011	.49
7	MP-7	X	-.01	1.069
8	MP-8	X	-.015	.25
9	MP-9	X	-.007	1.49
10	MP-1	X	-.007	4
11	MP-2	X	-.007	4
12	MP-4	X	-.008	4
13	MP-5	X	-.011	4
14	MP-7	X	-.007	4
15	MP-8	X	-.007	4
16	MP-1	X	-.01	6.931
17	MP-2	X	-.007	4.01
18	MP-3	X	-.015	7.75
19	MP-4	X	-.014	6.931
20	MP-5	X	-.026	7.75
21	MP-6	X	-.011	3.51
22	MP-7	X	-.01	6.931
23	MP-8	X	-.015	7.75
24	MP-9	X	-.007	4.51
25	MP-1	Z	.017	1.069
26	MP-2	Z	.012	.99
27	MP-3	Z	.025	.25
28	MP-4	Z	.025	1.069
29	MP-5	Z	.044	.25
30	MP-6	Z	.019	.49
31	MP-7	Z	.017	1.069
32	MP-8	Z	.025	.25
33	MP-9	Z	.012	1.49
34	MP-1	Z	.013	4
35	MP-2	Z	.013	4
36	MP-4	Z	.015	4
37	MP-5	Z	.019	4
38	MP-7	Z	.013	4
39	MP-8	Z	.013	4
40	MP-1	Z	.017	6.931
41	MP-2	Z	.012	4.01
42	MP-3	Z	.025	7.75
43	MP-4	Z	.025	6.931
44	MP-5	Z	.044	7.75
45	MP-6	Z	.019	3.51
46	MP-7	Z	.017	6.931
47	MP-8	Z	.025	7.75
48	MP-9	Z	.012	4.51



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**Member Point Loads (BLC 33 : 315 Wind - Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-0.16	1.069
2	MP-2	X	-0.12	.99
3	MP-3	X	-0.26	.25
4	MP-4	X	-.02	1.069
5	MP-5	X	-.035	.25
6	MP-6	X	-0.15	.49
7	MP-7	X	-0.12	1.069
8	MP-8	X	-0.17	.25
9	MP-9	X	-.009	1.49
10	MP-1	X	-0.11	4
11	MP-2	X	-0.12	4
12	MP-4	X	-0.12	4
13	MP-5	X	-0.15	4
14	MP-7	X	-.01	4
15	MP-8	X	-.009	4
16	MP-1	X	-0.16	6.931
17	MP-2	X	-0.12	4.01
18	MP-3	X	-0.26	7.75
19	MP-4	X	-.02	6.931
20	MP-5	X	-.035	7.75
21	MP-6	X	-0.15	3.51
22	MP-7	X	-0.12	6.931
23	MP-8	X	-0.17	7.75
24	MP-9	X	-.009	4.51
25	MP-1	Z	.016	1.069
26	MP-2	Z	.012	.99
27	MP-3	Z	.026	.25
28	MP-4	Z	.02	1.069
29	MP-5	Z	.035	.25
30	MP-6	Z	.015	.49
31	MP-7	Z	.012	1.069
32	MP-8	Z	.017	.25
33	MP-9	Z	.009	1.49
34	MP-1	Z	.011	4
35	MP-2	Z	.012	4
36	MP-4	Z	.012	4
37	MP-5	Z	.015	4
38	MP-7	Z	.01	4
39	MP-8	Z	.009	4
40	MP-1	Z	.016	6.931
41	MP-2	Z	.012	4.01
42	MP-3	Z	.026	7.75
43	MP-4	Z	.02	6.931
44	MP-5	Z	.035	7.75
45	MP-6	Z	.015	3.51
46	MP-7	Z	.012	6.931
47	MP-8	Z	.017	7.75
48	MP-9	Z	.009	4.51

**Member Point Loads (BLC 34 : 330 Wind - Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.022	1.069
2	MP-2	X	-.017	.99
3	MP-3	X	-.038	.25
4	MP-4	X	-.022	1.069
5	MP-5	X	-.038	.25



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**Member Point Loads (BLC 34 : 330 Wind - Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
6	MP-6	X	-.017	.49
7	MP-7	X	-.014	1.069
8	MP-8	X	-.019	.25
9	MP-9	X	-.01	1.49
10	MP-1	X	-.014	4
11	MP-2	X	-.017	4
12	MP-4	X	-.014	4
13	MP-5	X	-.017	4
14	MP-7	X	-.012	4
15	MP-8	X	-.01	4
16	MP-1	X	-.022	6.931
17	MP-2	X	-.017	4.01
18	MP-3	X	-.038	7.75
19	MP-4	X	-.022	6.931
20	MP-5	X	-.038	7.75
21	MP-6	X	-.017	3.51
22	MP-7	X	-.014	6.931
23	MP-8	X	-.019	7.75
24	MP-9	X	-.01	4.51
25	MP-1	Z	.013	1.069
26	MP-2	Z	.01	.99
27	MP-3	Z	.022	.25
28	MP-4	Z	.013	1.069
29	MP-5	Z	.022	.25
30	MP-6	Z	.01	.49
31	MP-7	Z	.008	1.069
32	MP-8	Z	.011	.25
33	MP-9	Z	.006	1.49
34	MP-1	Z	.008	4
35	MP-2	Z	.01	4
36	MP-4	Z	.008	4
37	MP-5	Z	.01	4
38	MP-7	Z	.007	4
39	MP-8	Z	.006	4
40	MP-1	Z	.013	6.931
41	MP-2	Z	.01	4.01
42	MP-3	Z	.022	7.75
43	MP-4	Z	.013	6.931
44	MP-5	Z	.022	7.75
45	MP-6	Z	.01	3.51
46	MP-7	Z	.008	6.931
47	MP-8	Z	.011	7.75
48	MP-9	Z	.006	4.51

**Member Point Loads (BLC 37 : Seismic Load X)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.021	1.069
2	MP-2	X	-.048	.99
3	MP-3	X	-.075	.25
4	MP-4	X	-.021	1.069
5	MP-5	X	-.075	.25
6	MP-6	X	-.048	.49
7	MP-7	X	-.021	1.069
8	MP-8	X	-.075	.25
9	MP-9	X	-.048	1.49
10	MP-1	X	-.109	4



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**Member Point Loads (BLC 37 : Seismic Load X) (Continued)**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft.%]
11	MP-2	X	-0.81	4
12	MP-4	X	-1.09	4
13	MP-5	X	-0.81	4
14	MP-7	X	-1.09	4
15	MP-8	X	-0.81	4
16	MP-1	X	-0.21	6.931
17	MP-2	X	-0.48	4.01
18	MP-3	X	-0.75	7.75
19	MP-4	X	-0.21	6.931
20	MP-5	X	-0.75	7.75
21	MP-6	X	-0.48	3.51
22	MP-7	X	-0.21	6.931
23	MP-8	X	-0.75	7.75
24	MP-9	X	-0.48	4.51

**Member Point Loads (BLC 38 : Seismic Load Z)**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft.%]
1	MP-1	Z	-0.21	1.069
2	MP-2	Z	-0.48	.99
3	MP-3	Z	-0.75	.25
4	MP-4	Z	-0.21	1.069
5	MP-5	Z	-0.75	.25
6	MP-6	Z	-0.48	.49
7	MP-7	Z	-0.21	1.069
8	MP-8	Z	-0.75	.25
9	MP-9	Z	-0.48	1.49
10	MP-1	Z	-1.09	4
11	MP-2	Z	-0.81	4
12	MP-4	Z	-1.09	4
13	MP-5	Z	-0.81	4
14	MP-7	Z	-1.09	4
15	MP-8	Z	-0.81	4
16	MP-1	Z	-0.21	6.931
17	MP-2	Z	-0.48	4.01
18	MP-3	Z	-0.75	7.75
19	MP-4	Z	-0.21	6.931
20	MP-5	Z	-0.75	7.75
21	MP-6	Z	-0.48	3.51
22	MP-7	Z	-0.21	6.931
23	MP-8	Z	-0.75	7.75
24	MP-9	Z	-0.48	4.51

**Member Distributed Loads (BLC 2 : 0 Wind - No Ice)**

	Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
1	PL1	X	-0.03	-0.03	0	%100
2	PL2	X	0	0	0	%100
3	PL3	X	-0.03	-0.03	0	%100
4	FF-H1	X	-0.28	-0.28	0	%100
5	FF-H2	X	-0.11	-0.11	0	%100
6	FF-H3	X	-0.11	-0.11	0	%100
7	GSI1	X	-0.09	-0.09	0	%100
8	GSI2	X	-0.22	-0.22	0	%100
9	GSI3	X	-0.09	-0.09	0	%100
10	IS-1	X	-0.19	-0.19	0	%100
11	IS-2	X	0	0	0	%100



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**Member Distributed Loads (BLC 2 : 0 Wind - No Ice) (Continued)**

	Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
12	HRC-1	X	-0.04	-0.04	0	%100
13	HRC-2	X	-0.09	-0.09	0	%100
14	HRC-3	X	-0.04	-0.04	0	%100
15	FF-HR1	X	-0.08	-0.08	0	%100
16	FF-HR2	X	-0.04	-0.04	0	%100
17	FF-HR3	X	-0.04	-0.04	0	%100
18	MP-1	X	-0.08	-0.08	0	%100
19	MP-2	X	-0.08	-0.08	0	%100
20	MP-3	X	-0.08	-0.08	0	%100
21	MP-4	X	-0.08	-0.08	0	%100
22	MP-5	X	-0.08	-0.08	0	%100
23	MP-6	X	-0.07	-0.07	0	%100
24	MP-7	X	-0.08	-0.08	0	%100
25	MP-8	X	-0.08	-0.08	0	%100
26	MP-9	X	-0.08	-0.08	0	%100
27	MP-DNU	X	-0.08	-0.08	0	%100

**Member Distributed Loads (BLC 3 : 30 Wind - No Ice)**

	Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
1	PL1	X	-0.02	-0.02	0	%100
2	PL2	X	-0.01	-0.01	0	%100
3	PL3	X	-0.03	-0.03	0	%100
4	FF-H1	X	-0.21	-0.21	0	%100
5	FF-H2	X	0	0	0	%100
6	FF-H3	X	-0.17	-0.17	0	%100
7	GSI1	X	-0.14	-0.14	0	%100
8	GSI2	X	-0.16	-0.16	0	%100
9	GSI3	X	0	0	0	%100
10	IS-1	X	-0.15	-0.15	0	%100
11	IS-2	X	-0.07	-0.07	0	%100
12	HRC-1	X	-0.06	-0.06	0	%100
13	HRC-2	X	-0.07	-0.07	0	%100
14	HRC-3	X	0	0	0	%100
15	FF-HR1	X	-0.06	-0.06	0	%100
16	FF-HR2	X	0	0	0	%100
17	FF-HR3	X	-0.06	-0.06	0	%100
18	MP-1	X	-0.07	-0.07	0	%100
19	MP-2	X	-0.07	-0.07	0	%100
20	MP-3	X	-0.07	-0.07	0	%100
21	MP-4	X	-0.07	-0.07	0	%100
22	MP-5	X	-0.07	-0.07	0	%100
23	MP-6	X	-0.06	-0.06	0	%100
24	MP-7	X	-0.07	-0.07	0	%100
25	MP-8	X	-0.07	-0.07	0	%100
26	MP-9	X	-0.07	-0.07	0	%100
27	MP-DNU	X	-0.07	-0.07	0	%100
28	PL1	Z	-0.009	-0.009	0	%100
29	PL2	Z	-0.01	-0.01	0	%100
30	PL3	Z	-0.02	-0.02	0	%100
31	FF-H1	Z	-0.12	-0.12	0	%100
32	FF-H2	Z	0	0	0	%100
33	FF-H3	Z	-0.12	-0.12	0	%100
34	GSI1	Z	-0.09	-0.09	0	%100
35	GSI2	Z	-0.09	-0.09	0	%100
36	GSI3	Z	0	0	0	%100
37	IS-1	Z	-0.08	-0.08	0	%100



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**Member Distributed Loads (BLC 3 : 30 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
38	IS-2	Z	-0.04	-0.04	0	%100
39	HRC-1	Z	-0.04	-0.04	0	%100
40	HRC-2	Z	-0.04	-0.04	0	%100
41	HRC-3	Z	0	0	0	%100
42	FF-HR1	Z	-0.03	-0.03	0	%100
43	FF-HR2	Z	0	0	0	%100
44	FF-HR3	Z	-0.03	-0.03	0	%100
45	MP-1	Z	-0.04	-0.04	0	%100
46	MP-2	Z	-0.04	-0.04	0	%100
47	MP-3	Z	-0.04	-0.04	0	%100
48	MP-4	Z	-0.04	-0.04	0	%100
49	MP-5	Z	-0.04	-0.04	0	%100
50	MP-6	Z	-0.04	-0.04	0	%100
51	MP-7	Z	-0.04	-0.04	0	%100
52	MP-8	Z	-0.04	-0.04	0	%100
53	MP-9	Z	-0.04	-0.04	0	%100
54	MP-DNU	Z	-0.04	-0.04	0	%100

**Member Distributed Loads (BLC 4 : 45 Wind - No Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	PL1	X	-0.0073	-0.0073	0	%100
2	PL2	X	-0.002	-0.002	0	%100
3	PL3	X	-0.003	-0.003	0	%100
4	FF-H1	X	-0.14	-0.14	0	%100
5	FF-H2	X	-0.04	-0.04	0	%100
6	FF-H3	X	-0.15	-0.15	0	%100
7	GS11	X	-0.13	-0.13	0	%100
8	GS12	X	-0.11	-0.11	0	%100
9	GS13	X	-0.03	-0.03	0	%100
10	IS-1	X	-0.1	-0.1	0	%100
11	IS-2	X	-0.08	-0.08	0	%100
12	HRC-1	X	-0.06	-0.06	0	%100
13	HRC-2	X	-0.05	-0.05	0	%100
14	HRC-3	X	-0.02	-0.02	0	%100
15	FF-HR1	X	-0.04	-0.04	0	%100
16	FF-HR2	X	-0.01	-0.01	0	%100
17	FF-HR3	X	-0.05	-0.05	0	%100
18	MP-1	X	-0.06	-0.06	0	%100
19	MP-2	X	-0.06	-0.06	0	%100
20	MP-3	X	-0.06	-0.06	0	%100
21	MP-4	X	-0.06	-0.06	0	%100
22	MP-5	X	-0.06	-0.06	0	%100
23	MP-6	X	-0.05	-0.05	0	%100
24	MP-7	X	-0.06	-0.06	0	%100
25	MP-8	X	-0.06	-0.06	0	%100
26	MP-9	X	-0.06	-0.06	0	%100
27	MP-DNU	X	-0.06	-0.06	0	%100
28	PL1	Z	-0.00659	-0.00659	0	%100
29	PL2	Z	-0.002	-0.002	0	%100
30	PL3	Z	-0.002	-0.002	0	%100
31	FF-H1	Z	-0.14	-0.14	0	%100
32	FF-H2	Z	-0.05	-0.05	0	%100
33	FF-H3	Z	-0.18	-0.18	0	%100
34	GS11	Z	-0.14	-0.14	0	%100
35	GS12	Z	-0.11	-0.11	0	%100
36	GS13	Z	-0.04	-0.04	0	%100



Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
 Model Name : Oxford / Fritz Property (BU 876362)

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**Member Distributed Loads (BLC 4 : 45 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
37	IS-1	Z	-0.1	-0.1	0	%100
38	IS-2	Z	-0.09	-0.09	0	%100
39	HRC-1	Z	-0.06	-0.06	0	%100
40	HRC-2	Z	-0.05	-0.05	0	%100
41	HRC-3	Z	-0.02	-0.02	0	%100
42	FF-HR1	Z	-0.04	-0.04	0	%100
43	FF-HR2	Z	-0.01	-0.01	0	%100
44	FF-HR3	Z	-0.05	-0.05	0	%100
45	MP-1	Z	-0.06	-0.06	0	%100
46	MP-2	Z	-0.06	-0.06	0	%100
47	MP-3	Z	-0.06	-0.06	0	%100
48	MP-4	Z	-0.06	-0.06	0	%100
49	MP-5	Z	-0.06	-0.06	0	%100
50	MP-6	Z	-0.05	-0.05	0	%100
51	MP-7	Z	-0.06	-0.06	0	%100
52	MP-8	Z	-0.06	-0.06	0	%100
53	MP-9	Z	-0.06	-0.06	0	%100
54	MP-DNU	Z	-0.06	-0.06	0	%100

**Member Distributed Loads (BLC 5 : 60 Wind - No Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	PL1	X	0	0	0	%100
2	PL2	X	-0.001	-0.001	0	%100
3	PL3	X	-0.002	-0.002	0	%100
4	FF-H1	X	-0.07	-0.07	0	%100
5	FF-H2	X	-0.06	-0.06	0	%100
6	FF-H3	X	-0.11	-0.11	0	%100
7	GS11	X	-0.09	-0.09	0	%100
8	GS12	X	-0.05	-0.05	0	%100
9	GS13	X	-0.05	-0.05	0	%100
10	IS-1	X	-0.05	-0.05	0	%100
11	IS-2	X	-0.07	-0.07	0	%100
12	HRC-1	X	-0.04	-0.04	0	%100
13	HRC-2	X	-0.02	-0.02	0	%100
14	HRC-3	X	-0.02	-0.02	0	%100
15	FF-HR1	X	-0.02	-0.02	0	%100
16	FF-HR2	X	-0.02	-0.02	0	%100
17	FF-HR3	X	-0.04	-0.04	0	%100
18	MP-1	X	-0.04	-0.04	0	%100
19	MP-2	X	-0.04	-0.04	0	%100
20	MP-3	X	-0.04	-0.04	0	%100
21	MP-4	X	-0.04	-0.04	0	%100
22	MP-5	X	-0.04	-0.04	0	%100
23	MP-6	X	-0.04	-0.04	0	%100
24	MP-7	X	-0.04	-0.04	0	%100
25	MP-8	X	-0.04	-0.04	0	%100
26	MP-9	X	-0.04	-0.04	0	%100
27	MP-DNU	X	-0.04	-0.04	0	%100
28	PL1	Z	0	0	0	%100
29	PL2	Z	-0.003	-0.003	0	%100
30	PL3	Z	-0.003	-0.003	0	%100
31	FF-H1	Z	-0.12	-0.12	0	%100
32	FF-H2	Z	-0.12	-0.12	0	%100
33	FF-H3	Z	-0.23	-0.23	0	%100
34	GS11	Z	-0.18	-0.18	0	%100
35	GS12	Z	-0.09	-0.09	0	%100





Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
 Model Name : Oxford / Fritz Property (BU 876362)

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**Member Distributed Loads (BLC 5 : 60 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
36	GSI3	Z	-0.09	-0.09	0	%100
37	IS-1	Z	-0.08	-0.08	0	%100
38	IS-2	Z	-0.13	-0.13	0	%100
39	HRC-1	Z	-0.08	-0.08	0	%100
40	HRC-2	Z	-0.04	-0.04	0	%100
41	HRC-3	Z	-0.04	-0.04	0	%100
42	FF-HR1	Z	-0.03	-0.03	0	%100
43	FF-HR2	Z	-0.03	-0.03	0	%100
44	FF-HR3	Z	-0.07	-0.07	0	%100
45	MP-1	Z	-0.07	-0.07	0	%100
46	MP-2	Z	-0.07	-0.07	0	%100
47	MP-3	Z	-0.07	-0.07	0	%100
48	MP-4	Z	-0.07	-0.07	0	%100
49	MP-5	Z	-0.07	-0.07	0	%100
50	MP-6	Z	-0.06	-0.06	0	%100
51	MP-7	Z	-0.07	-0.07	0	%100
52	MP-8	Z	-0.07	-0.07	0	%100
53	MP-9	Z	-0.07	-0.07	0	%100
54	MP-DNU	Z	-0.07	-0.07	0	%100

**Member Distributed Loads (BLC 6 : 90 Wind - No Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	PL1	Z	-0.02	-0.02	0	%100
2	PL2	Z	-0.04	-0.04	0	%100
3	PL3	Z	-0.02	-0.02	0	%100
4	FF-H1	Z	0	0	0	%100
5	FF-H2	Z	-0.23	-0.23	0	%100
6	FF-H3	Z	-0.23	-0.23	0	%100
7	GSI1	Z	-0.18	-0.18	0	%100
8	GSI2	Z	0	0	0	%100
9	GSI3	Z	-0.18	-0.18	0	%100
10	IS-1	Z	0	0	0	%100
11	IS-2	Z	-0.18	-0.18	0	%100
12	HRC-1	Z	-0.08	-0.08	0	%100
13	HRC-2	Z	0	0	0	%100
14	HRC-3	Z	-0.08	-0.08	0	%100
15	FF-HR1	Z	0	0	0	%100
16	FF-HR2	Z	-0.07	-0.07	0	%100
17	FF-HR3	Z	-0.07	-0.07	0	%100
18	MP-1	Z	-0.08	-0.08	0	%100
19	MP-2	Z	-0.08	-0.08	0	%100
20	MP-3	Z	-0.08	-0.08	0	%100
21	MP-4	Z	-0.08	-0.08	0	%100
22	MP-5	Z	-0.08	-0.08	0	%100
23	MP-6	Z	-0.07	-0.07	0	%100
24	MP-7	Z	-0.08	-0.08	0	%100
25	MP-8	Z	-0.08	-0.08	0	%100
26	MP-9	Z	-0.08	-0.08	0	%100
27	MP-DNU	Z	-0.08	-0.08	0	%100

**Member Distributed Loads (BLC 7 : 120 Wind - No Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	PL1	X	.002	.002	0	%100
2	PL2	X	.001	.001	0	%100
3	PL3	X	0	0	0	%100
4	FF-H1	X	.007	.007	0	%100



Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
 Model Name : Oxford / Fritz Property (BU 876362)

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**Member Distributed Loads (BLC 7 : 120 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
5	FF-H2	X	.011	.011	0	%100
6	FF-H3	X	.006	.006	0	%100
7	GSI1	X	.005	.005	0	%100
8	GSI2	X	.005	.005	0	%100
9	GSI3	X	.009	.009	0	%100
10	IS-1	X	.005	.005	0	%100
11	IS-2	X	.007	.007	0	%100
12	HRC-1	X	.002	.002	0	%100
13	HRC-2	X	.002	.002	0	%100
14	HRC-3	X	.004	.004	0	%100
15	FF-HR1	X	.002	.002	0	%100
16	FF-HR2	X	.004	.004	0	%100
17	FF-HR3	X	.002	.002	0	%100
18	MP-1	X	.004	.004	0	%100
19	MP-2	X	.004	.004	0	%100
20	MP-3	X	.004	.004	0	%100
21	MP-4	X	.004	.004	0	%100
22	MP-5	X	.004	.004	0	%100
23	MP-6	X	.004	.004	0	%100
24	MP-7	X	.004	.004	0	%100
25	MP-8	X	.004	.004	0	%100
26	MP-9	X	.004	.004	0	%100
27	MP-DNU	X	.004	.004	0	%100
28	PL1	Z	-0.03	-0.03	0	%100
29	PL2	Z	-0.03	-0.03	0	%100
30	PL3	Z	0	0	0	%100
31	FF-H1	Z	-0.12	-0.12	0	%100
32	FF-H2	Z	-0.23	-0.23	0	%100
33	FF-H3	Z	-0.12	-0.12	0	%100
34	GSI1	Z	-0.09	-0.09	0	%100
35	GSI2	Z	-0.09	-0.09	0	%100
36	GSI3	Z	-0.18	-0.18	0	%100
37	IS-1	Z	-0.08	-0.08	0	%100
38	IS-2	Z	-0.13	-0.13	0	%100
39	HRC-1	Z	-0.04	-0.04	0	%100
40	HRC-2	Z	-0.04	-0.04	0	%100
41	HRC-3	Z	-0.08	-0.08	0	%100
42	FF-HR1	Z	-0.03	-0.03	0	%100
43	FF-HR2	Z	-0.07	-0.07	0	%100
44	FF-HR3	Z	-0.03	-0.03	0	%100
45	MP-1	Z	-0.07	-0.07	0	%100
46	MP-2	Z	-0.07	-0.07	0	%100
47	MP-3	Z	-0.07	-0.07	0	%100
48	MP-4	Z	-0.07	-0.07	0	%100
49	MP-5	Z	-0.07	-0.07	0	%100
50	MP-6	Z	-0.06	-0.06	0	%100
51	MP-7	Z	-0.07	-0.07	0	%100
52	MP-8	Z	-0.07	-0.07	0	%100
53	MP-9	Z	-0.07	-0.07	0	%100
54	MP-DNU	Z	-0.07	-0.07	0	%100

**Member Distributed Loads (BLC 8 : 135 Wind - No Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	PL1	X	.003	.003	0	%100
2	PL2	X	.002	.002	0	%100
3	PL3	X	.00073	.00073	0	%100



Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
 Model Name : Oxford / Fritz Property (BU 876362)

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**Member Distributed Loads (BLC 8 : 135 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
4	FF-H1	X	.014	.014	0	%100
5	FF-H2	X	.015	.015	0	%100
6	FF-H3	X	.004	.004	0	%100
7	GSI1	X	.003	.003	0	%100
8	GSI2	X	.011	.011	0	%100
9	GSI3	X	.013	.013	0	%100
10	IS-1	X	.01	.01	0	%100
11	IS-2	X	.008	.008	0	%100
12	HRC-1	X	.002	.002	0	%100
13	HRC-2	X	.005	.005	0	%100
14	HRC-3	X	.006	.006	0	%100
15	FF-HR1	X	.004	.004	0	%100
16	FF-HR2	X	.005	.005	0	%100
17	FF-HR3	X	.001	.001	0	%100
18	MP-1	X	.006	.006	0	%100
19	MP-2	X	.006	.006	0	%100
20	MP-3	X	.006	.006	0	%100
21	MP-4	X	.006	.006	0	%100
22	MP-5	X	.006	.006	0	%100
23	MP-6	X	.005	.005	0	%100
24	MP-7	X	.006	.006	0	%100
25	MP-8	X	.006	.006	0	%100
26	MP-9	X	.006	.006	0	%100
27	MP-DNU	X	.006	.006	0	%100
28	PL1	Z	-.002	-.002	0	%100
29	PL2	Z	-.002	-.002	0	%100
30	PL3	Z	-.000659	-.000659	0	%100
31	FF-H1	Z	-.014	-.014	0	%100
32	FF-H2	Z	-.018	-.018	0	%100
33	FF-H3	Z	-.005	-.005	0	%100
34	GSI1	Z	-.004	-.004	0	%100
35	GSI2	Z	-.011	-.011	0	%100
36	GSI3	Z	-.014	-.014	0	%100
37	IS-1	Z	-.01	-.01	0	%100
38	IS-2	Z	-.009	-.009	0	%100
39	HRC-1	Z	-.002	-.002	0	%100
40	HRC-2	Z	-.005	-.005	0	%100
41	HRC-3	Z	-.006	-.006	0	%100
42	FF-HR1	Z	-.004	-.004	0	%100
43	FF-HR2	Z	-.005	-.005	0	%100
44	FF-HR3	Z	-.001	-.001	0	%100
45	MP-1	Z	-.006	-.006	0	%100
46	MP-2	Z	-.006	-.006	0	%100
47	MP-3	Z	-.006	-.006	0	%100
48	MP-4	Z	-.006	-.006	0	%100
49	MP-5	Z	-.006	-.006	0	%100
50	MP-6	Z	-.005	-.005	0	%100
51	MP-7	Z	-.006	-.006	0	%100
52	MP-8	Z	-.006	-.006	0	%100
53	MP-9	Z	-.006	-.006	0	%100
54	MP-DNU	Z	-.006	-.006	0	%100

**Member Distributed Loads (BLC 9 : 150 Wind - No Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	PL1	X	.003	.003	0	%100
2	PL2	X	.001	.001	0	%100



Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
 Model Name : Oxford / Fritz Property (BU 876362)

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**Member Distributed Loads (BLC 9 : 150 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
3	PL3	X	.002	.002	0	%100
4	FF-H1	X	.021	.021	0	%100
5	FF-H2	X	.017	.017	0	%100
6	FF-H3	X	0	0	0	%100
7	GSI1	X	0	0	0	%100
8	GSI2	X	.016	.016	0	%100
9	GSI3	X	.014	.014	0	%100
10	IS-1	X	.015	.015	0	%100
11	IS-2	X	.007	.007	0	%100
12	HRC-1	X	0	0	0	%100
13	HRC-2	X	.007	.007	0	%100
14	HRC-3	X	.006	.006	0	%100
15	FF-HR1	X	.006	.006	0	%100
16	FF-HR2	X	.006	.006	0	%100
17	FF-HR3	X	0	0	0	%100
18	MP-1	X	.007	.007	0	%100
19	MP-2	X	.007	.007	0	%100
20	MP-3	X	.007	.007	0	%100
21	MP-4	X	.007	.007	0	%100
22	MP-5	X	.007	.007	0	%100
23	MP-6	X	.006	.006	0	%100
24	MP-7	X	.007	.007	0	%100
25	MP-8	X	.007	.007	0	%100
26	MP-9	X	.007	.007	0	%100
27	MP-DNU	X	.007	.007	0	%100
28	PL1	Z	-.002	-.002	0	%100
29	PL2	Z	-.001	-.001	0	%100
30	PL3	Z	-.0009	-.0009	0	%100
31	FF-H1	Z	-.012	-.012	0	%100
32	FF-H2	Z	-.012	-.012	0	%100
33	FF-H3	Z	0	0	0	%100
34	GSI1	Z	0	0	0	%100
35	GSI2	Z	-.009	-.009	0	%100
36	GSI3	Z	-.009	-.009	0	%100
37	IS-1	Z	-.008	-.008	0	%100
38	IS-2	Z	-.004	-.004	0	%100
39	HRC-1	Z	0	0	0	%100
40	HRC-2	Z	-.004	-.004	0	%100
41	HRC-3	Z	-.004	-.004	0	%100
42	FF-HR1	Z	-.003	-.003	0	%100
43	FF-HR2	Z	-.003	-.003	0	%100
44	FF-HR3	Z	0	0	0	%100
45	MP-1	Z	-.004	-.004	0	%100
46	MP-2	Z	-.004	-.004	0	%100
47	MP-3	Z	-.004	-.004	0	%100
48	MP-4	Z	-.004	-.004	0	%100
49	MP-5	Z	-.004	-.004	0	%100
50	MP-6	Z	-.004	-.004	0	%100
51	MP-7	Z	-.004	-.004	0	%100
52	MP-8	Z	-.004	-.004	0	%100
53	MP-9	Z	-.004	-.004	0	%100
54	MP-DNU	Z	-.004	-.004	0	%100

**Member Distributed Loads (BLC 10 : 180 Wind - No Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	PL1	X	.003	.003	0	%100



Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
 Model Name : Oxford / Fritz Property (BU 876362)

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**Member Distributed Loads (BLC 10 : 180 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
2	PL2	X	0	0	%100	
3	PL3	X	.003	.003	0	%100
4	FF-H1	X	.028	.028	0	%100
5	FF-H2	X	.011	.011	0	%100
6	FF-H3	X	.011	.011	0	%100
7	GSI1	X	.009	.009	0	%100
8	GSI2	X	.022	.022	0	%100
9	GSI3	X	.009	.009	0	%100
10	IS-1	X	.019	.019	0	%100
11	IS-2	X	0	0	0	%100
12	HRC-1	X	.004	.004	0	%100
13	HRC-2	X	.009	.009	0	%100
14	HRC-3	X	.004	.004	0	%100
15	FF-HR1	X	.008	.008	0	%100
16	FF-HR2	X	.004	.004	0	%100
17	FF-HR3	X	.004	.004	0	%100
18	MP-1	X	.008	.008	0	%100
19	MP-2	X	.008	.008	0	%100
20	MP-3	X	.008	.008	0	%100
21	MP-4	X	.008	.008	0	%100
22	MP-5	X	.008	.008	0	%100
23	MP-6	X	.007	.007	0	%100
24	MP-7	X	.008	.008	0	%100
25	MP-8	X	.008	.008	0	%100
26	MP-9	X	.008	.008	0	%100
27	MP-DNU	X	.008	.008	0	%100

**Member Distributed Loads (BLC 11 : 210 Wind - No Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	PL1	X	.002	.002	0	%100
2	PL2	X	.001	.001	0	%100
3	PL3	X	.003	.003	0	%100
4	FF-H1	X	.021	.021	0	%100
5	FF-H2	X	0	0	0	%100
6	FF-H3	X	.017	.017	0	%100
7	GSI1	X	.014	.014	0	%100
8	GSI2	X	.016	.016	0	%100
9	GSI3	X	0	0	0	%100
10	IS-1	X	.015	.015	0	%100
11	IS-2	X	.007	.007	0	%100
12	HRC-1	X	.006	.006	0	%100
13	HRC-2	X	.007	.007	0	%100
14	HRC-3	X	0	0	0	%100
15	FF-HR1	X	.006	.006	0	%100
16	FF-HR2	X	0	0	0	%100
17	FF-HR3	X	.006	.006	0	%100
18	MP-1	X	.007	.007	0	%100
19	MP-2	X	.007	.007	0	%100
20	MP-3	X	.007	.007	0	%100
21	MP-4	X	.007	.007	0	%100
22	MP-5	X	.007	.007	0	%100
23	MP-6	X	.006	.006	0	%100
24	MP-7	X	.007	.007	0	%100
25	MP-8	X	.007	.007	0	%100
26	MP-9	X	.007	.007	0	%100
27	MP-DNU	X	.007	.007	0	%100



Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
 Model Name : Oxford / Fritz Property (BU 876362)

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**Member Distributed Loads (BLC 11 : 210 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
28	PL1	Z	.0009	.0009	0	%100
29	PL2	Z	.001	.001	0	%100
30	PL3	Z	.002	.002	0	%100
31	FF-H1	Z	.012	.012	0	%100
32	FF-H2	Z	0	0	0	%100
33	FF-H3	Z	.012	.012	0	%100
34	GSI1	Z	.009	.009	0	%100
35	GSI2	Z	.009	.009	0	%100
36	GSI3	Z	0	0	0	%100
37	IS-1	Z	.008	.008	0	%100
38	IS-2	Z	.004	.004	0	%100
39	HRC-1	Z	.004	.004	0	%100
40	HRC-2	Z	.004	.004	0	%100
41	HRC-3	Z	0	0	0	%100
42	FF-HR1	Z	.003	.003	0	%100
43	FF-HR2	Z	0	0	0	%100
44	FF-HR3	Z	.003	.003	0	%100
45	MP-1	Z	.004	.004	0	%100
46	MP-2	Z	.004	.004	0	%100
47	MP-3	Z	.004	.004	0	%100
48	MP-4	Z	.004	.004	0	%100
49	MP-5	Z	.004	.004	0	%100
50	MP-6	Z	.004	.004	0	%100
51	MP-7	Z	.004	.004	0	%100
52	MP-8	Z	.004	.004	0	%100
53	MP-9	Z	.004	.004	0	%100
54	MP-DNU	Z	.004	.004	0	%100

**Member Distributed Loads (BLC 12 : 225 Wind - No Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	PL1	X	.00073	.00073	0	%100
2	PL2	X	.002	.002	0	%100
3	PL3	X	.003	.003	0	%100
4	FF-H1	X	.014	.014	0	%100
5	FF-H2	X	.004	.004	0	%100
6	FF-H3	X	.015	.015	0	%100
7	GSI1	X	.013	.013	0	%100
8	GSI2	X	.011	.011	0	%100
9	GSI3	X	.003	.003	0	%100
10	IS-1	X	.01	.01	0	%100
11	IS-2	X	.008	.008	0	%100
12	HRC-1	X	.006	.006	0	%100
13	HRC-2	X	.005	.005	0	%100
14	HRC-3	X	.002	.002	0	%100
15	FF-HR1	X	.004	.004	0	%100
16	FF-HR2	X	.001	.001	0	%100
17	FF-HR3	X	.005	.005	0	%100
18	MP-1	X	.006	.006	0	%100
19	MP-2	X	.006	.006	0	%100
20	MP-3	X	.006	.006	0	%100
21	MP-4	X	.006	.006	0	%100
22	MP-5	X	.006	.006	0	%100
23	MP-6	X	.005	.005	0	%100
24	MP-7	X	.006	.006	0	%100
25	MP-8	X	.006	.006	0	%100
26	MP-9	X	.006	.006	0	%100



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**Member Distributed Loads (BLC 12 : 225 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
27	MP-DNU	X	.006	.006	0	%100
28	PL1	Z	.000659	.000659	0	%100
29	PL2	Z	.002	.002	0	%100
30	PL3	Z	.002	.002	0	%100
31	FF-H1	Z	.014	.014	0	%100
32	FF-H2	Z	.005	.005	0	%100
33	FF-H3	Z	.018	.018	0	%100
34	GS1	Z	.014	.014	0	%100
35	GS2	Z	.011	.011	0	%100
36	GS3	Z	.004	.004	0	%100
37	IS-1	Z	.01	.01	0	%100
38	IS-2	Z	.009	.009	0	%100
39	HRC-1	Z	.006	.006	0	%100
40	HRC-2	Z	.005	.005	0	%100
41	HRC-3	Z	.002	.002	0	%100
42	FF-HR1	Z	.004	.004	0	%100
43	FF-HR2	Z	.001	.001	0	%100
44	FF-HR3	Z	.005	.005	0	%100
45	MP-1	Z	.006	.006	0	%100
46	MP-2	Z	.006	.006	0	%100
47	MP-3	Z	.006	.006	0	%100
48	MP-4	Z	.006	.006	0	%100
49	MP-5	Z	.006	.006	0	%100
50	MP-6	Z	.005	.005	0	%100
51	MP-7	Z	.006	.006	0	%100
52	MP-8	Z	.006	.006	0	%100
53	MP-9	Z	.006	.006	0	%100
54	MP-DNU	Z	.006	.006	0	%100

**Member Distributed Loads (BLC 13 : 240 Wind - No Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	PL1	X	0	0	0	%100
2	PL2	X	.001	.001	0	%100
3	PL3	X	.002	.002	0	%100
4	FF-H1	X	.007	.007	0	%100
5	FF-H2	X	.006	.006	0	%100
6	FF-H3	X	.011	.011	0	%100
7	GS1	X	.009	.009	0	%100
8	GS2	X	.005	.005	0	%100
9	GS3	X	.005	.005	0	%100
10	IS-1	X	.005	.005	0	%100
11	IS-2	X	.007	.007	0	%100
12	HRC-1	X	.004	.004	0	%100
13	HRC-2	X	.002	.002	0	%100
14	HRC-3	X	.002	.002	0	%100
15	FF-HR1	X	.002	.002	0	%100
16	FF-HR2	X	.002	.002	0	%100
17	FF-HR3	X	.004	.004	0	%100
18	MP-1	X	.004	.004	0	%100
19	MP-2	X	.004	.004	0	%100
20	MP-3	X	.004	.004	0	%100
21	MP-4	X	.004	.004	0	%100
22	MP-5	X	.004	.004	0	%100
23	MP-6	X	.004	.004	0	%100
24	MP-7	X	.004	.004	0	%100
25	MP-8	X	.004	.004	0	%100



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**Member Distributed Loads (BLC 13 : 240 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
26	MP-9	X	.004	.004	0	%100
27	MP-DNU	X	.004	.004	0	%100
28	PL1	Z	0	0	0	%100
29	PL2	Z	.003	.003	0	%100
30	PL3	Z	.003	.003	0	%100
31	FF-H1	Z	.012	.012	0	%100
32	FF-H2	Z	.012	.012	0	%100
33	FF-H3	Z	.023	.023	0	%100
34	GS1	Z	.018	.018	0	%100
35	GS2	Z	.009	.009	0	%100
36	GS3	Z	.009	.009	0	%100
37	IS-1	Z	.008	.008	0	%100
38	IS-2	Z	.013	.013	0	%100
39	HRC-1	Z	.008	.008	0	%100
40	HRC-2	Z	.004	.004	0	%100
41	HRC-3	Z	.004	.004	0	%100
42	FF-HR1	Z	.003	.003	0	%100
43	FF-HR2	Z	.003	.003	0	%100
44	FF-HR3	Z	.007	.007	0	%100
45	MP-1	Z	.007	.007	0	%100
46	MP-2	Z	.007	.007	0	%100
47	MP-3	Z	.007	.007	0	%100
48	MP-4	Z	.007	.007	0	%100
49	MP-5	Z	.007	.007	0	%100
50	MP-6	Z	.006	.006	0	%100
51	MP-7	Z	.007	.007	0	%100
52	MP-8	Z	.007	.007	0	%100
53	MP-9	Z	.007	.007	0	%100
54	MP-DNU	Z	.007	.007	0	%100

**Member Distributed Loads (BLC 14 : 270 Wind - No Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	PL1	Z	.002	.002	0	%100
2	PL2	Z	.004	.004	0	%100
3	PL3	Z	.002	.002	0	%100
4	FF-H1	Z	0	0	0	%100
5	FF-H2	Z	.023	.023	0	%100
6	FF-H3	Z	.023	.023	0	%100
7	GS1	Z	.018	.018	0	%100
8	GS2	Z	0	0	0	%100
9	GS3	Z	.018	.018	0	%100
10	IS-1	Z	0	0	0	%100
11	IS-2	Z	.018	.018	0	%100
12	HRC-1	Z	.008	.008	0	%100
13	HRC-2	Z	0	0	0	%100
14	HRC-3	Z	.008	.008	0	%100
15	FF-HR1	Z	0	0	0	%100
16	FF-HR2	Z	.007	.007	0	%100
17	FF-HR3	Z	.007	.007	0	%100
18	MP-1	Z	.008	.008	0	%100
19	MP-2	Z	.008	.008	0	%100
20	MP-3	Z	.008	.008	0	%100
21	MP-4	Z	.008	.008	0	%100
22	MP-5	Z	.008	.008	0	%100
23	MP-6	Z	.007	.007	0	%100
24	MP-7	Z	.008	.008	0	%100



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**Member Distributed Loads (BLC 14 : 270 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
25	MP-8	Z	.008	.008	0	%100
26	MP-9	Z	.008	.008	0	%100
27	MP-DNU	Z	.008	.008	0	%100

**Member Distributed Loads (BLC 15 : 300 Wind - No Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	PL1	X	-.002	-.002	0	%100
2	PL2	X	-.001	-.001	0	%100
3	PL3	X	0	0	0	%100
4	FF-H1	X	-.007	-.007	0	%100
5	FF-H2	X	-.011	-.011	0	%100
6	FF-H3	X	-.006	-.006	0	%100
7	GSI1	X	-.005	-.005	0	%100
8	GSI2	X	-.005	-.005	0	%100
9	GSI3	X	-.009	-.009	0	%100
10	IS-1	X	-.005	-.005	0	%100
11	IS-2	X	-.007	-.007	0	%100
12	HRC-1	X	-.002	-.002	0	%100
13	HRC-2	X	-.002	-.002	0	%100
14	HRC-3	X	-.004	-.004	0	%100
15	FF-HR1	X	-.002	-.002	0	%100
16	FF-HR2	X	-.004	-.004	0	%100
17	FF-HR3	X	-.002	-.002	0	%100
18	MP-1	X	-.004	-.004	0	%100
19	MP-2	X	-.004	-.004	0	%100
20	MP-3	X	-.004	-.004	0	%100
21	MP-4	X	-.004	-.004	0	%100
22	MP-5	X	-.004	-.004	0	%100
23	MP-6	X	-.004	-.004	0	%100
24	MP-7	X	-.004	-.004	0	%100
25	MP-8	X	-.004	-.004	0	%100
26	MP-9	X	-.004	-.004	0	%100
27	MP-DNU	X	-.004	-.004	0	%100
28	PL1	Z	.003	.003	0	%100
29	PL2	Z	.003	.003	0	%100
30	PL3	Z	0	0	0	%100
31	FF-H1	Z	.012	.012	0	%100
32	FF-H2	Z	.023	.023	0	%100
33	FF-H3	Z	.012	.012	0	%100
34	GSI1	Z	.009	.009	0	%100
35	GSI2	Z	.009	.009	0	%100
36	GSI3	Z	.018	.018	0	%100
37	IS-1	Z	.008	.008	0	%100
38	IS-2	Z	.013	.013	0	%100
39	HRC-1	Z	.004	.004	0	%100
40	HRC-2	Z	.004	.004	0	%100
41	HRC-3	Z	.008	.008	0	%100
42	FF-HR1	Z	.003	.003	0	%100
43	FF-HR2	Z	.007	.007	0	%100
44	FF-HR3	Z	.003	.003	0	%100
45	MP-1	Z	.007	.007	0	%100
46	MP-2	Z	.007	.007	0	%100
47	MP-3	Z	.007	.007	0	%100
48	MP-4	Z	.007	.007	0	%100
49	MP-5	Z	.007	.007	0	%100
50	MP-6	Z	.006	.006	0	%100



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**Member Distributed Loads (BLC 15 : 300 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
51	MP-7	Z	.007	.007	0	%100
52	MP-8	Z	.007	.007	0	%100
53	MP-9	Z	.007	.007	0	%100
54	MP-DNU	Z	.007	.007	0	%100

**Member Distributed Loads (BLC 16 : 315 Wind - No Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	PL1	X	-.003	-.003	0	%100
2	PL2	X	-.002	-.002	0	%100
3	PL3	X	-.00073	-.00073	0	%100
4	FF-H1	X	-.014	-.014	0	%100
5	FF-H2	X	-.015	-.015	0	%100
6	FF-H3	X	-.004	-.004	0	%100
7	GSI1	X	-.003	-.003	0	%100
8	GSI2	X	-.011	-.011	0	%100
9	GSI3	X	-.013	-.013	0	%100
10	IS-1	X	-.01	-.01	0	%100
11	IS-2	X	-.008	-.008	0	%100
12	HRC-1	X	-.002	-.002	0	%100
13	HRC-2	X	-.005	-.005	0	%100
14	HRC-3	X	-.006	-.006	0	%100
15	FF-HR1	X	-.004	-.004	0	%100
16	FF-HR2	X	-.005	-.005	0	%100
17	FF-HR3	X	-.001	-.001	0	%100
18	MP-1	X	-.006	-.006	0	%100
19	MP-2	X	-.006	-.006	0	%100
20	MP-3	X	-.006	-.006	0	%100
21	MP-4	X	-.006	-.006	0	%100
22	MP-5	X	-.006	-.006	0	%100
23	MP-6	X	-.005	-.005	0	%100
24	MP-7	X	-.006	-.006	0	%100
25	MP-8	X	-.006	-.006	0	%100
26	MP-9	X	-.006	-.006	0	%100
27	MP-DNU	X	-.006	-.006	0	%100
28	PL1	Z	.002	.002	0	%100
29	PL2	Z	.002	.002	0	%100
30	PL3	Z	.000659	.000659	0	%100
31	FF-H1	Z	.014	.014	0	%100
32	FF-H2	Z	.018	.018	0	%100
33	FF-H3	Z	.005	.005	0	%100
34	GSI1	Z	.004	.004	0	%100
35	GSI2	Z	.011	.011	0	%100
36	GSI3	Z	.014	.014	0	%100
37	IS-1	Z	.01	.01	0	%100
38	IS-2	Z	.009	.009	0	%100
39	HRC-1	Z	.002	.002	0	%100
40	HRC-2	Z	.005	.005	0	%100
41	HRC-3	Z	.006	.006	0	%100
42	FF-HR1	Z	.004	.004	0	%100
43	FF-HR2	Z	.005	.005	0	%100
44	FF-HR3	Z	.001	.001	0	%100
45	MP-1	Z	.006	.006	0	%100
46	MP-2	Z	.006	.006	0	%100
47	MP-3	Z	.006	.006	0	%100
48	MP-4	Z	.006	.006	0	%100
49	MP-5	Z	.006	.006	0	%100



Company : Tower Engineering Professionals  
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**Member Distributed Loads (BLC 16 : 315 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
50	MP-6	Z	.005	.005	0	%100
51	MP-7	Z	.006	.006	0	%100
52	MP-8	Z	.006	.006	0	%100
53	MP-9	Z	.006	.006	0	%100
54	MP-DNU	Z	.006	.006	0	%100

**Member Distributed Loads (BLC 17 : 330 Wind - No Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	PL1	X	-.003	-.003	0	%100
2	PL2	X	-.001	-.001	0	%100
3	PL3	X	-.002	-.002	0	%100
4	FF-H1	X	-.021	-.021	0	%100
5	FF-H2	X	-.017	-.017	0	%100
6	FF-H3	X	0	0	0	%100
7	GS1	X	0	0	0	%100
8	GS2	X	-.016	-.016	0	%100
9	GS3	X	-.014	-.014	0	%100
10	IS-1	X	-.015	-.015	0	%100
11	IS-2	X	-.007	-.007	0	%100
12	HRC-1	X	0	0	0	%100
13	HRC-2	X	-.007	-.007	0	%100
14	HRC-3	X	-.006	-.006	0	%100
15	FF-HR1	X	-.006	-.006	0	%100
16	FF-HR2	X	-.006	-.006	0	%100
17	FF-HR3	X	0	0	0	%100
18	MP-1	X	-.007	-.007	0	%100
19	MP-2	X	-.007	-.007	0	%100
20	MP-3	X	-.007	-.007	0	%100
21	MP-4	X	-.007	-.007	0	%100
22	MP-5	X	-.007	-.007	0	%100
23	MP-6	X	-.006	-.006	0	%100
24	MP-7	X	-.007	-.007	0	%100
25	MP-8	X	-.007	-.007	0	%100
26	MP-9	X	-.007	-.007	0	%100
27	MP-DNU	X	-.007	-.007	0	%100
28	PL1	Z	.002	.002	0	%100
29	PL2	Z	.001	.001	0	%100
30	PL3	Z	.0009	.0009	0	%100
31	FF-H1	Z	.012	.012	0	%100
32	FF-H2	Z	.012	.012	0	%100
33	FF-H3	Z	0	0	0	%100
34	GS1	Z	0	0	0	%100
35	GS2	Z	.009	.009	0	%100
36	GS3	Z	.009	.009	0	%100
37	IS-1	Z	.008	.008	0	%100
38	IS-2	Z	.004	.004	0	%100
39	HRC-1	Z	0	0	0	%100
40	HRC-2	Z	.004	.004	0	%100
41	HRC-3	Z	.004	.004	0	%100
42	FF-HR1	Z	.003	.003	0	%100
43	FF-HR2	Z	.003	.003	0	%100
44	FF-HR3	Z	0	0	0	%100
45	MP-1	Z	.004	.004	0	%100
46	MP-2	Z	.004	.004	0	%100
47	MP-3	Z	.004	.004	0	%100
48	MP-4	Z	.004	.004	0	%100



Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
 Model Name : Oxford / Fritz Property (BU 876362)

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**Member Distributed Loads (BLC 17 : 330 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
49	MP-5	Z	.004	.004	0	%100
50	MP-6	Z	.004	.004	0	%100
51	MP-7	Z	.004	.004	0	%100
52	MP-8	Z	.004	.004	0	%100
53	MP-9	Z	.004	.004	0	%100
54	MP-DNU	Z	.004	.004	0	%100

**Member Distributed Loads (BLC 18 : Ice Weight)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	PL1	Y	-.017	-.017	0	%100
2	PL2	Y	-.017	-.017	0	%100
3	PL3	Y	-.017	-.017	0	%100
4	FF-H1	Y	-.008	-.008	0	%100
5	FF-H2	Y	-.008	-.008	0	%100
6	FF-H3	Y	-.008	-.008	0	%100
7	GS1	Y	-.008	-.008	0	%100
8	GS2	Y	-.008	-.008	0	%100
9	GS3	Y	-.008	-.008	0	%100
10	IS-1	Y	-.008	-.008	0	%100
11	IS-2	Y	-.008	-.008	0	%100
12	HRC-1	Y	-.005	-.005	0	%100
13	HRC-2	Y	-.005	-.005	0	%100
14	HRC-3	Y	-.005	-.005	0	%100
15	FF-HR1	Y	-.005	-.005	0	%100
16	FF-HR2	Y	-.005	-.005	0	%100
17	FF-HR3	Y	-.005	-.005	0	%100
18	MP-1	Y	-.005	-.005	0	%100
19	MP-2	Y	-.005	-.005	0	%100
20	MP-3	Y	-.005	-.005	0	%100
21	MP-4	Y	-.005	-.005	0	%100
22	MP-5	Y	-.005	-.005	0	%100
23	MP-6	Y	-.005	-.005	0	%100
24	MP-7	Y	-.005	-.005	0	%100
25	MP-8	Y	-.005	-.005	0	%100
26	MP-9	Y	-.005	-.005	0	%100
27	MP-DNU	Y	-.005	-.005	0	%100

**Member Distributed Loads (BLC 19 : 0 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	PL1	X	-.003	-.003	0	%100
2	PL2	X	-.003	-.003	0	%100
3	PL3	X	-.003	-.003	0	%100
4	FF-H1	X	-.007	-.007	0	%100
5	FF-H2	X	-.005	-.005	0	%100
6	FF-H3	X	-.005	-.005	0	%100
7	GS1	X	-.005	-.005	0	%100
8	GS2	X	-.006	-.006	0	%100
9	GS3	X	-.005	-.005	0	%100
10	IS-1	X	-.005	-.005	0	%100
11	IS-2	X	-.005	-.005	0	%100
12	HRC-1	X	-.003	-.003	0	%100
13	HRC-2	X	-.003	-.003	0	%100
14	HRC-3	X	-.003	-.003	0	%100
15	FF-HR1	X	-.003	-.003	0	%100
16	FF-HR2	X	-.002	-.002	0	%100
17	FF-HR3	X	-.002	-.002	0	%100



Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
 Model Name : Oxford / Fritz Property (BU 876362)

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**Member Distributed Loads (BLC 19 : 0 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
18	MP-1	X	-0.02	-0.02	0	%100
19	MP-2	X	-0.02	-0.02	0	%100
20	MP-3	X	-0.02	-0.02	0	%100
21	MP-4	X	-0.02	-0.02	0	%100
22	MP-5	X	-0.02	-0.02	0	%100
23	MP-6	X	-0.02	-0.02	0	%100
24	MP-7	X	-0.02	-0.02	0	%100
25	MP-8	X	-0.02	-0.02	0	%100
26	MP-9	X	-0.02	-0.02	0	%100
27	MP-DNU	X	-0.02	-0.02	0	%100

**Member Distributed Loads (BLC 20 : 30 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	PL1	X	-0.01	-0.01	0	%100
2	PL2	X	-0.01	-0.01	0	%100
3	PL3	X	-0.02	-0.02	0	%100
4	FF-H1	X	-0.05	-0.05	0	%100
5	FF-H2	X	0	0	0	%100
6	FF-H3	X	-0.04	-0.04	0	%100
7	GS1	X	-0.04	-0.04	0	%100
8	GS2	X	-0.04	-0.04	0	%100
9	GS3	X	0	0	0	%100
10	IS-1	X	-0.04	-0.04	0	%100
11	IS-2	X	-0.02	-0.02	0	%100
12	HRC-1	X	-0.03	-0.03	0	%100
13	HRC-2	X	-0.03	-0.03	0	%100
14	HRC-3	X	0	0	0	%100
15	FF-HR1	X	-0.02	-0.02	0	%100
16	FF-HR2	X	0	0	0	%100
17	FF-HR3	X	-0.02	-0.02	0	%100
18	MP-1	X	-0.02	-0.02	0	%100
19	MP-2	X	-0.02	-0.02	0	%100
20	MP-3	X	-0.02	-0.02	0	%100
21	MP-4	X	-0.02	-0.02	0	%100
22	MP-5	X	-0.02	-0.02	0	%100
23	MP-6	X	-0.02	-0.02	0	%100
24	MP-7	X	-0.02	-0.02	0	%100
25	MP-8	X	-0.02	-0.02	0	%100
26	MP-9	X	-0.02	-0.02	0	%100
27	MP-DNU	X	-0.02	-0.02	0	%100
28	PL1	Z	-0.00629	-0.00629	0	%100
29	PL2	Z	-0.00651	-0.00651	0	%100
30	PL3	Z	-0.01	-0.01	0	%100
31	FF-H1	Z	-0.03	-0.03	0	%100
32	FF-H2	Z	0	0	0	%100
33	FF-H3	Z	-0.03	-0.03	0	%100
34	GS1	Z	-0.02	-0.02	0	%100
35	GS2	Z	-0.02	-0.02	0	%100
36	GS3	Z	0	0	0	%100
37	IS-1	Z	-0.02	-0.02	0	%100
38	IS-2	Z	-0.01	-0.01	0	%100
39	HRC-1	Z	-0.01	-0.01	0	%100
40	HRC-2	Z	-0.01	-0.01	0	%100
41	HRC-3	Z	0	0	0	%100
42	FF-HR1	Z	-0.01	-0.01	0	%100
43	FF-HR2	Z	0	0	0	%100



Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
 Model Name : Oxford / Fritz Property (BU 876362)

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**Member Distributed Loads (BLC 20 : 30 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
44	FF-HR3	Z	-0.01	-0.01	0	%100
45	MP-1	Z	-0.01	-0.01	0	%100
46	MP-2	Z	-0.01	-0.01	0	%100
47	MP-3	Z	-0.01	-0.01	0	%100
48	MP-4	Z	-0.01	-0.01	0	%100
49	MP-5	Z	-0.01	-0.01	0	%100
50	MP-6	Z	-0.01	-0.01	0	%100
51	MP-7	Z	-0.01	-0.01	0	%100
52	MP-8	Z	-0.01	-0.01	0	%100
53	MP-9	Z	-0.01	-0.01	0	%100
54	MP-DNU	Z	-0.01	-0.01	0	%100

**Member Distributed Loads (BLC 21 : 45 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	PL1	X	-0.0047	-0.0047	0	%100
2	PL2	X	-0.01	-0.01	0	%100
3	PL3	X	-0.02	-0.02	0	%100
4	FF-H1	X	-0.03	-0.03	0	%100
5	FF-H2	X	-0.01	-0.01	0	%100
6	FF-H3	X	-0.04	-0.04	0	%100
7	GS1	X	-0.03	-0.03	0	%100
8	GS2	X	-0.03	-0.03	0	%100
9	GS3	X	-0.00897	-0.00897	0	%100
10	IS-1	X	-0.03	-0.03	0	%100
11	IS-2	X	-0.02	-0.02	0	%100
12	HRC-1	X	-0.02	-0.02	0	%100
13	HRC-2	X	-0.02	-0.02	0	%100
14	HRC-3	X	-0.00614	-0.00614	0	%100
15	FF-HR1	X	-0.01	-0.01	0	%100
16	FF-HR2	X	-0.00419	-0.00419	0	%100
17	FF-HR3	X	-0.02	-0.02	0	%100
18	MP-1	X	-0.02	-0.02	0	%100
19	MP-2	X	-0.02	-0.02	0	%100
20	MP-3	X	-0.02	-0.02	0	%100
21	MP-4	X	-0.02	-0.02	0	%100
22	MP-5	X	-0.02	-0.02	0	%100
23	MP-6	X	-0.01	-0.01	0	%100
24	MP-7	X	-0.02	-0.02	0	%100
25	MP-8	X	-0.02	-0.02	0	%100
26	MP-9	X	-0.02	-0.02	0	%100
27	MP-DNU	X	-0.02	-0.02	0	%100
28	PL1	Z	-0.00461	-0.00461	0	%100
29	PL2	Z	-0.01	-0.01	0	%100
30	PL3	Z	-0.02	-0.02	0	%100
31	FF-H1	Z	-0.03	-0.03	0	%100
32	FF-H2	Z	-0.01	-0.01	0	%100
33	FF-H3	Z	-0.04	-0.04	0	%100
34	GS1	Z	-0.04	-0.04	0	%100
35	GS2	Z	-0.02	-0.02	0	%100
36	GS3	Z	-0.00987	-0.00987	0	%100
37	IS-1	Z	-0.02	-0.02	0	%100
38	IS-2	Z	-0.03	-0.03	0	%100
39	HRC-1	Z	-0.02	-0.02	0	%100
40	HRC-2	Z	-0.02	-0.02	0	%100
41	HRC-3	Z	-0.00629	-0.00629	0	%100
42	FF-HR1	Z	-0.01	-0.01	0	%100





Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
 Model Name : Oxford / Fritz Property (BU 876362)

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**Member Distributed Loads (BLC 21 : 45 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
43	FF-HR2	Z	-0.00515	-0.00515	0	%100
44	FF-HR3	Z	-0.002	-0.002	0	%100
45	MP-1	Z	-0.002	-0.002	0	%100
46	MP-2	Z	-0.002	-0.002	0	%100
47	MP-3	Z	-0.002	-0.002	0	%100
48	MP-4	Z	-0.002	-0.002	0	%100
49	MP-5	Z	-0.002	-0.002	0	%100
50	MP-6	Z	-0.002	-0.002	0	%100
51	MP-7	Z	-0.002	-0.002	0	%100
52	MP-8	Z	-0.002	-0.002	0	%100
53	MP-9	Z	-0.002	-0.002	0	%100
54	MP-DNU	Z	-0.002	-0.002	0	%100

**Member Distributed Loads (BLC 22 : 60 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	PL1	X	0	0	0	%100
2	PL2	X	-0.001	-0.001	0	%100
3	PL3	X	-0.001	-0.001	0	%100
4	FF-H1	X	-0.002	-0.002	0	%100
5	FF-H2	X	-0.001	-0.001	0	%100
6	FF-H3	X	-0.003	-0.003	0	%100
7	GS1	X	-0.002	-0.002	0	%100
8	GS2	X	-0.001	-0.001	0	%100
9	GS3	X	-0.001	-0.001	0	%100
10	IS-1	X	-0.001	-0.001	0	%100
11	IS-2	X	-0.002	-0.002	0	%100
12	HRC-1	X	-0.002	-0.002	0	%100
13	HRC-2	X	-0.00873	-0.00873	0	%100
14	HRC-3	X	-0.00839	-0.00839	0	%100
15	FF-HR1	X	-0.0072	-0.0072	0	%100
16	FF-HR2	X	-0.00572	-0.00572	0	%100
17	FF-HR3	X	-0.001	-0.001	0	%100
18	MP-1	X	-0.001	-0.001	0	%100
19	MP-2	X	-0.001	-0.001	0	%100
20	MP-3	X	-0.001	-0.001	0	%100
21	MP-4	X	-0.001	-0.001	0	%100
22	MP-5	X	-0.001	-0.001	0	%100
23	MP-6	X	-0.00981	-0.00981	0	%100
24	MP-7	X	-0.001	-0.001	0	%100
25	MP-8	X	-0.001	-0.001	0	%100
26	MP-9	X	-0.001	-0.001	0	%100
27	MP-DNU	X	-0.001	-0.001	0	%100
28	PL1	Z	0	0	0	%100
29	PL2	Z	-0.002	-0.002	0	%100
30	PL3	Z	-0.002	-0.002	0	%100
31	FF-H1	Z	-0.003	-0.003	0	%100
32	FF-H2	Z	-0.003	-0.003	0	%100
33	FF-H3	Z	-0.005	-0.005	0	%100
34	GS1	Z	-0.005	-0.005	0	%100
35	GS2	Z	-0.002	-0.002	0	%100
36	GS3	Z	-0.002	-0.002	0	%100
37	IS-1	Z	-0.002	-0.002	0	%100
38	IS-2	Z	-0.004	-0.004	0	%100
39	HRC-1	Z	-0.003	-0.003	0	%100
40	HRC-2	Z	-0.001	-0.001	0	%100
41	HRC-3	Z	-0.001	-0.001	0	%100



Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
 Model Name : Oxford / Fritz Property (BU 876362)

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**Member Distributed Loads (BLC 22 : 60 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
42	FF-HR1	Z	-0.001	-0.001	0	%100
43	FF-HR2	Z	-0.001	-0.001	0	%100
44	FF-HR3	Z	-0.002	-0.002	0	%100
45	MP-1	Z	-0.002	-0.002	0	%100
46	MP-2	Z	-0.002	-0.002	0	%100
47	MP-3	Z	-0.002	-0.002	0	%100
48	MP-4	Z	-0.002	-0.002	0	%100
49	MP-5	Z	-0.002	-0.002	0	%100
50	MP-6	Z	-0.002	-0.002	0	%100
51	MP-7	Z	-0.002	-0.002	0	%100
52	MP-8	Z	-0.002	-0.002	0	%100
53	MP-9	Z	-0.002	-0.002	0	%100
54	MP-DNU	Z	-0.002	-0.002	0	%100

**Member Distributed Loads (BLC 23 : 90 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	PL1	Z	-0.001	-0.001	0	%100
2	PL2	Z	-0.003	-0.003	0	%100
3	PL3	Z	-0.001	-0.001	0	%100
4	FF-H1	Z	0	0	0	%100
5	FF-H2	Z	-0.005	-0.005	0	%100
6	FF-H3	Z	-0.005	-0.005	0	%100
7	GS1	Z	-0.005	-0.005	0	%100
8	GS2	Z	0	0	0	%100
9	GS3	Z	-0.005	-0.005	0	%100
10	IS-1	Z	0	0	0	%100
11	IS-2	Z	-0.005	-0.005	0	%100
12	HRC-1	Z	-0.003	-0.003	0	%100
13	HRC-2	Z	0	0	0	%100
14	HRC-3	Z	-0.003	-0.003	0	%100
15	FF-HR1	Z	0	0	0	%100
16	FF-HR2	Z	-0.002	-0.002	0	%100
17	FF-HR3	Z	-0.002	-0.002	0	%100
18	MP-1	Z	-0.003	-0.003	0	%100
19	MP-2	Z	-0.003	-0.003	0	%100
20	MP-3	Z	-0.003	-0.003	0	%100
21	MP-4	Z	-0.003	-0.003	0	%100
22	MP-5	Z	-0.003	-0.003	0	%100
23	MP-6	Z	-0.002	-0.002	0	%100
24	MP-7	Z	-0.003	-0.003	0	%100
25	MP-8	Z	-0.003	-0.003	0	%100
26	MP-9	Z	-0.002	-0.002	0	%100
27	MP-DNU	Z	-0.002	-0.002	0	%100

**Member Distributed Loads (BLC 24 : 120 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	PL1	X	0.001	0.001	0	%100
2	PL2	X	0.001	0.001	0	%100
3	PL3	X	0	0	0	%100
4	FF-H1	X	0.002	0.002	0	%100
5	FF-H2	X	0.003	0.003	0	%100
6	FF-H3	X	0.001	0.001	0	%100
7	GS1	X	0.001	0.001	0	%100
8	GS2	X	0.001	0.001	0	%100
9	GS3	X	0.002	0.002	0	%100
10	IS-1	X	0.001	0.001	0	%100





Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
 Model Name : Oxford / Fritz Property (BU 876362)

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**Member Distributed Loads (BLC 24 : 120 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
11	IS-2	X	.002	.002	0	%100
12	HRC-1	X	.000839	.000839	0	%100
13	HRC-2	X	.000873	.000873	0	%100
14	HRC-3	X	.002	.002	0	%100
15	FF-HR1	X	.00072	.00072	0	%100
16	FF-HR2	X	.001	.001	0	%100
17	FF-HR3	X	.000564	.000564	0	%100
18	MP-1	X	.001	.001	0	%100
19	MP-2	X	.001	.001	0	%100
20	MP-3	X	.001	.001	0	%100
21	MP-4	X	.001	.001	0	%100
22	MP-5	X	.001	.001	0	%100
23	MP-6	X	.000981	.000981	0	%100
24	MP-7	X	.001	.001	0	%100
25	MP-8	X	.001	.001	0	%100
26	MP-9	X	.001	.001	0	%100
27	MP-DNU	X	.001	.001	0	%100
28	PL1	Z	-.002	-.002	0	%100
29	PL2	Z	-.002	-.002	0	%100
30	PL3	Z	0	0	0	%100
31	FF-H1	Z	-.003	-.003	0	%100
32	FF-H2	Z	-.005	-.005	0	%100
33	FF-H3	Z	-.003	-.003	0	%100
34	GS1	Z	-.002	-.002	0	%100
35	GS2	Z	-.002	-.002	0	%100
36	GS3	Z	-.005	-.005	0	%100
37	IS-1	Z	-.002	-.002	0	%100
38	IS-2	Z	-.004	-.004	0	%100
39	HRC-1	Z	-.001	-.001	0	%100
40	HRC-2	Z	-.001	-.001	0	%100
41	HRC-3	Z	-.003	-.003	0	%100
42	FF-HR1	Z	-.001	-.001	0	%100
43	FF-HR2	Z	-.002	-.002	0	%100
44	FF-HR3	Z	-.001	-.001	0	%100
45	MP-1	Z	-.002	-.002	0	%100
46	MP-2	Z	-.002	-.002	0	%100
47	MP-3	Z	-.002	-.002	0	%100
48	MP-4	Z	-.002	-.002	0	%100
49	MP-5	Z	-.002	-.002	0	%100
50	MP-6	Z	-.002	-.002	0	%100
51	MP-7	Z	-.002	-.002	0	%100
52	MP-8	Z	-.002	-.002	0	%100
53	MP-9	Z	-.002	-.002	0	%100
54	MP-DNU	Z	-.002	-.002	0	%100

**Member Distributed Loads (BLC 25 : 135 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	PL1	X	.002	.002	0	%100
2	PL2	X	.001	.001	0	%100
3	PL3	X	.00047	.00047	0	%100
4	FF-H1	X	.003	.003	0	%100
5	FF-H2	X	.004	.004	0	%100
6	FF-H3	X	.001	.001	0	%100
7	GS1	X	.000897	.000897	0	%100
8	GS2	X	.003	.003	0	%100
9	GS3	X	.003	.003	0	%100



Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
 Model Name : Oxford / Fritz Property (BU 876362)

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**Member Distributed Loads (BLC 25 : 135 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
10	IS-1	X	.003	.003	0	%100
11	IS-2	X	.002	.002	0	%100
12	HRC-1	X	.000614	.000614	0	%100
13	HRC-2	X	.002	.002	0	%100
14	HRC-3	X	.002	.002	0	%100
15	FF-HR1	X	.001	.001	0	%100
16	FF-HR2	X	.002	.002	0	%100
17	FF-HR3	X	.000413	.000413	0	%100
18	MP-1	X	.002	.002	0	%100
19	MP-2	X	.002	.002	0	%100
20	MP-3	X	.002	.002	0	%100
21	MP-4	X	.002	.002	0	%100
22	MP-5	X	.002	.002	0	%100
23	MP-6	X	.001	.001	0	%100
24	MP-7	X	.002	.002	0	%100
25	MP-8	X	.002	.002	0	%100
26	MP-9	X	.002	.002	0	%100
27	MP-DNU	X	.002	.002	0	%100
28	PL1	Z	-.002	-.002	0	%100
29	PL2	Z	-.001	-.001	0	%100
30	PL3	Z	-.000461	-.000461	0	%100
31	FF-H1	Z	-.003	-.003	0	%100
32	FF-H2	Z	-.004	-.004	0	%100
33	FF-H3	Z	-.001	-.001	0	%100
34	GS1	Z	-.000987	-.000987	0	%100
35	GS2	Z	-.002	-.002	0	%100
36	GS3	Z	-.004	-.004	0	%100
37	IS-1	Z	-.002	-.002	0	%100
38	IS-2	Z	-.003	-.003	0	%100
39	HRC-1	Z	-.000629	-.000629	0	%100
40	HRC-2	Z	-.002	-.002	0	%100
41	HRC-3	Z	-.002	-.002	0	%100
42	FF-HR1	Z	-.001	-.001	0	%100
43	FF-HR2	Z	-.002	-.002	0	%100
44	FF-HR3	Z	-.000504	-.000504	0	%100
45	MP-1	Z	-.002	-.002	0	%100
46	MP-2	Z	-.002	-.002	0	%100
47	MP-3	Z	-.002	-.002	0	%100
48	MP-4	Z	-.002	-.002	0	%100
49	MP-5	Z	-.002	-.002	0	%100
50	MP-6	Z	-.002	-.002	0	%100
51	MP-7	Z	-.002	-.002	0	%100
52	MP-8	Z	-.002	-.002	0	%100
53	MP-9	Z	-.002	-.002	0	%100
54	MP-DNU	Z	-.002	-.002	0	%100

**Member Distributed Loads (BLC 26 : 150 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	PL1	X	.002	.002	0	%100
2	PL2	X	.001	.001	0	%100
3	PL3	X	.001	.001	0	%100
4	FF-H1	X	.005	.005	0	%100
5	FF-H2	X	.004	.004	0	%100
6	FF-H3	X	0	0	0	%100
7	GS1	X	0	0	0	%100
8	GS2	X	.004	.004	0	%100



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 Designer : AJS  
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 Model Name : Oxford / Fritz Property (BU 876362)

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**Member Distributed Loads (BLC 26 : 150 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
9	GS13	X	.004	.004	0	%100
10	IS-1	X	.004	.004	0	%100
11	IS-2	X	.002	.002	0	%100
12	HRC-1	X	0	0	0	%100
13	HRC-2	X	.003	.003	0	%100
14	HRC-3	X	.003	.003	0	%100
15	FF-HR1	X	.002	.002	0	%100
16	FF-HR2	X	.002	.002	0	%100
17	FF-HR3	X	0	0	0	%100
18	MP-1	X	.002	.002	0	%100
19	MP-2	X	.002	.002	0	%100
20	MP-3	X	.002	.002	0	%100
21	MP-4	X	.002	.002	0	%100
22	MP-5	X	.002	.002	0	%100
23	MP-6	X	.002	.002	0	%100
24	MP-7	X	.002	.002	0	%100
25	MP-8	X	.002	.002	0	%100
26	MP-9	X	.002	.002	0	%100
27	MP-DNU	X	.002	.002	0	%100
28	PL1	Z	-.001	-.001	0	%100
29	PL2	Z	-.000651	-.000651	0	%100
30	PL3	Z	-.000629	-.000629	0	%100
31	FF-H1	Z	-.003	-.003	0	%100
32	FF-H2	Z	-.003	-.003	0	%100
33	FF-H3	Z	0	0	0	%100
34	GS1	Z	0	0	0	%100
35	GS2	Z	-.002	-.002	0	%100
36	GS3	Z	-.002	-.002	0	%100
37	IS-1	Z	-.002	-.002	0	%100
38	IS-2	Z	-.001	-.001	0	%100
39	HRC-1	Z	0	0	0	%100
40	HRC-2	Z	-.001	-.001	0	%100
41	HRC-3	Z	-.001	-.001	0	%100
42	FF-HR1	Z	-.001	-.001	0	%100
43	FF-HR2	Z	-.001	-.001	0	%100
44	FF-HR3	Z	0	0	0	%100
45	MP-1	Z	-.001	-.001	0	%100
46	MP-2	Z	-.001	-.001	0	%100
47	MP-3	Z	-.001	-.001	0	%100
48	MP-4	Z	-.001	-.001	0	%100
49	MP-5	Z	-.001	-.001	0	%100
50	MP-6	Z	-.001	-.001	0	%100
51	MP-7	Z	-.001	-.001	0	%100
52	MP-8	Z	-.001	-.001	0	%100
53	MP-9	Z	-.001	-.001	0	%100
54	MP-DNU	Z	-.001	-.001	0	%100

**Member Distributed Loads (BLC 27 : 180 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	PL1	X	.003	.003	0	%100
2	PL2	X	.003	.003	0	%100
3	PL3	X	.003	.003	0	%100
4	FF-H1	X	.007	.007	0	%100
5	FF-H2	X	.005	.005	0	%100
6	FF-H3	X	.005	.005	0	%100
7	GS1	X	.005	.005	0	%100



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**Member Distributed Loads (BLC 27 : 180 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
8	GS2	X	.006	.006	0	%100
9	GS3	X	.005	.005	0	%100
10	IS-1	X	.005	.005	0	%100
11	IS-2	X	.005	.005	0	%100
12	HRC-1	X	.003	.003	0	%100
13	HRC-2	X	.003	.003	0	%100
14	HRC-3	X	.003	.003	0	%100
15	FF-HR1	X	.003	.003	0	%100
16	FF-HR2	X	.002	.002	0	%100
17	FF-HR3	X	.002	.002	0	%100
18	MP-1	X	.002	.002	0	%100
19	MP-2	X	.002	.002	0	%100
20	MP-3	X	.002	.002	0	%100
21	MP-4	X	.002	.002	0	%100
22	MP-5	X	.002	.002	0	%100
23	MP-6	X	.002	.002	0	%100
24	MP-7	X	.002	.002	0	%100
25	MP-8	X	.002	.002	0	%100
26	MP-9	X	.002	.002	0	%100
27	MP-DNU	X	.002	.002	0	%100

**Member Distributed Loads (BLC 28 : 210 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	PL1	X	.001	.001	0	%100
2	PL2	X	.001	.001	0	%100
3	PL3	X	.002	.002	0	%100
4	FF-H1	X	.005	.005	0	%100
5	FF-H2	X	0	0	0	%100
6	FF-H3	X	.004	.004	0	%100
7	GS1	X	.004	.004	0	%100
8	GS2	X	.004	.004	0	%100
9	GS3	X	0	0	0	%100
10	IS-1	X	.004	.004	0	%100
11	IS-2	X	.002	.002	0	%100
12	HRC-1	X	.003	.003	0	%100
13	HRC-2	X	.003	.003	0	%100
14	HRC-3	X	0	0	0	%100
15	FF-HR1	X	.002	.002	0	%100
16	FF-HR2	X	0	0	0	%100
17	FF-HR3	X	.002	.002	0	%100
18	MP-1	X	.002	.002	0	%100
19	MP-2	X	.002	.002	0	%100
20	MP-3	X	.002	.002	0	%100
21	MP-4	X	.002	.002	0	%100
22	MP-5	X	.002	.002	0	%100
23	MP-6	X	.002	.002	0	%100
24	MP-7	X	.002	.002	0	%100
25	MP-8	X	.002	.002	0	%100
26	MP-9	X	.002	.002	0	%100
27	MP-DNU	X	.002	.002	0	%100
28	PL1	Z	.000629	.000629	0	%100
29	PL2	Z	.000651	.000651	0	%100
30	PL3	Z	.001	.001	0	%100
31	FF-H1	Z	.003	.003	0	%100
32	FF-H2	Z	0	0	0	%100
33	FF-H3	Z	.003	.003	0	%100



Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
 Model Name : Oxford / Fritz Property (BU 876362)

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**Member Distributed Loads (BLC 28 : 210 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
34	GSI1	Z	.002	.002	0	%100
35	GSI2	Z	.002	.002	0	%100
36	GSI3	Z	0	0	0	%100
37	IS-1	Z	.002	.002	0	%100
38	IS-2	Z	.001	.001	0	%100
39	HRC-1	Z	.001	.001	0	%100
40	HRC-2	Z	.001	.001	0	%100
41	HRC-3	Z	0	0	0	%100
42	FF-HR1	Z	.001	.001	0	%100
43	FF-HR2	Z	0	0	0	%100
44	FF-HR3	Z	.001	.001	0	%100
45	MP-1	Z	.001	.001	0	%100
46	MP-2	Z	.001	.001	0	%100
47	MP-3	Z	.001	.001	0	%100
48	MP-4	Z	.001	.001	0	%100
49	MP-5	Z	.001	.001	0	%100
50	MP-6	Z	.001	.001	0	%100
51	MP-7	Z	.001	.001	0	%100
52	MP-8	Z	.001	.001	0	%100
53	MP-9	Z	.001	.001	0	%100
54	MP-DNU	Z	.001	.001	0	%100

**Member Distributed Loads (BLC 29 : 225 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	PL1	X	.00047	.00047	0	%100
2	PL2	X	.001	.001	0	%100
3	PL3	X	.002	.002	0	%100
4	FF-H1	X	.003	.003	0	%100
5	FF-H2	X	.001	.001	0	%100
6	FF-H3	X	.004	.004	0	%100
7	GSI1	X	.003	.003	0	%100
8	GSI2	X	.003	.003	0	%100
9	GSI3	X	.000897	.000897	0	%100
10	IS-1	X	.003	.003	0	%100
11	IS-2	X	.002	.002	0	%100
12	HRC-1	X	.002	.002	0	%100
13	HRC-2	X	.002	.002	0	%100
14	HRC-3	X	.000614	.000614	0	%100
15	FF-HR1	X	.001	.001	0	%100
16	FF-HR2	X	.000419	.000419	0	%100
17	FF-HR3	X	.002	.002	0	%100
18	MP-1	X	.002	.002	0	%100
19	MP-2	X	.002	.002	0	%100
20	MP-3	X	.002	.002	0	%100
21	MP-4	X	.002	.002	0	%100
22	MP-5	X	.002	.002	0	%100
23	MP-6	X	.001	.001	0	%100
24	MP-7	X	.002	.002	0	%100
25	MP-8	X	.002	.002	0	%100
26	MP-9	X	.002	.002	0	%100
27	MP-DNU	X	.002	.002	0	%100
28	PL1	Z	.000461	.000461	0	%100
29	PL2	Z	.001	.001	0	%100
30	PL3	Z	.002	.002	0	%100
31	FF-H1	Z	.003	.003	0	%100
32	FF-H2	Z	.001	.001	0	%100



Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
 Model Name : Oxford / Fritz Property (BU 876362)

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**Member Distributed Loads (BLC 29 : 225 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
33	FF-H3	Z	.004	.004	0	%100
34	GSI1	Z	.004	.004	0	%100
35	GSI2	Z	.002	.002	0	%100
36	GSI3	Z	.000987	.000987	0	%100
37	IS-1	Z	.002	.002	0	%100
38	IS-2	Z	.003	.003	0	%100
39	HRC-1	Z	.002	.002	0	%100
40	HRC-2	Z	.002	.002	0	%100
41	HRC-3	Z	.000629	.000629	0	%100
42	FF-HR1	Z	.001	.001	0	%100
43	FF-HR2	Z	.000515	.000515	0	%100
44	FF-HR3	Z	.002	.002	0	%100
45	MP-1	Z	.002	.002	0	%100
46	MP-2	Z	.002	.002	0	%100
47	MP-3	Z	.002	.002	0	%100
48	MP-4	Z	.002	.002	0	%100
49	MP-5	Z	.002	.002	0	%100
50	MP-6	Z	.002	.002	0	%100
51	MP-7	Z	.002	.002	0	%100
52	MP-8	Z	.002	.002	0	%100
53	MP-9	Z	.002	.002	0	%100
54	MP-DNU	Z	.002	.002	0	%100

**Member Distributed Loads (BLC 30 : 240 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	PL1	X	0	0	0	%100
2	PL2	X	.001	.001	0	%100
3	PL3	X	.001	.001	0	%100
4	FF-H1	X	.002	.002	0	%100
5	FF-H2	X	.001	.001	0	%100
6	FF-H3	X	.003	.003	0	%100
7	GSI1	X	.002	.002	0	%100
8	GSI2	X	.001	.001	0	%100
9	GSI3	X	.001	.001	0	%100
10	IS-1	X	.001	.001	0	%100
11	IS-2	X	.002	.002	0	%100
12	HRC-1	X	.002	.002	0	%100
13	HRC-2	X	.000873	.000873	0	%100
14	HRC-3	X	.000839	.000839	0	%100
15	FF-HR1	X	.00072	.00072	0	%100
16	FF-HR2	X	.000572	.000572	0	%100
17	FF-HR3	X	.001	.001	0	%100
18	MP-1	X	.001	.001	0	%100
19	MP-2	X	.001	.001	0	%100
20	MP-3	X	.001	.001	0	%100
21	MP-4	X	.001	.001	0	%100
22	MP-5	X	.001	.001	0	%100
23	MP-6	X	.000981	.000981	0	%100
24	MP-7	X	.001	.001	0	%100
25	MP-8	X	.001	.001	0	%100
26	MP-9	X	.001	.001	0	%100
27	MP-DNU	X	.001	.001	0	%100
28	PL1	Z	0	0	0	%100
29	PL2	Z	.002	.002	0	%100
30	PL3	Z	.002	.002	0	%100
31	FF-H1	Z	.003	.003	0	%100



Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
 Model Name : Oxford / Fritz Property (BU 876362)

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**Member Distributed Loads (BLC 30 : 240 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
32	FF-H2	Z	.003	.003	0	%100
33	FF-H3	Z	.005	.005	0	%100
34	GSI1	Z	.005	.005	0	%100
35	GSI2	Z	.002	.002	0	%100
36	GSI3	Z	.002	.002	0	%100
37	IS-1	Z	.002	.002	0	%100
38	IS-2	Z	.004	.004	0	%100
39	HRC-1	Z	.003	.003	0	%100
40	HRC-2	Z	.001	.001	0	%100
41	HRC-3	Z	.001	.001	0	%100
42	FF-HR1	Z	.001	.001	0	%100
43	FF-HR2	Z	.001	.001	0	%100
44	FF-HR3	Z	.002	.002	0	%100
45	MP-1	Z	.002	.002	0	%100
46	MP-2	Z	.002	.002	0	%100
47	MP-3	Z	.002	.002	0	%100
48	MP-4	Z	.002	.002	0	%100
49	MP-5	Z	.002	.002	0	%100
50	MP-6	Z	.002	.002	0	%100
51	MP-7	Z	.002	.002	0	%100
52	MP-8	Z	.002	.002	0	%100
53	MP-9	Z	.002	.002	0	%100
54	MP-DNU	Z	.002	.002	0	%100

**Member Distributed Loads (BLC 31 : 270 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	PL1	Z	.001	.001	0	%100
2	PL2	Z	.003	.003	0	%100
3	PL3	Z	.001	.001	0	%100
4	FF-H1	Z	0	0	0	%100
5	FF-H2	Z	.005	.005	0	%100
6	FF-H3	Z	.005	.005	0	%100
7	GSI1	Z	.005	.005	0	%100
8	GSI2	Z	0	0	0	%100
9	GSI3	Z	.005	.005	0	%100
10	IS-1	Z	0	0	0	%100
11	IS-2	Z	.005	.005	0	%100
12	HRC-1	Z	.003	.003	0	%100
13	HRC-2	Z	0	0	0	%100
14	HRC-3	Z	.003	.003	0	%100
15	FF-HR1	Z	0	0	0	%100
16	FF-HR2	Z	.002	.002	0	%100
17	FF-HR3	Z	.002	.002	0	%100
18	MP-1	Z	.003	.003	0	%100
19	MP-2	Z	.003	.003	0	%100
20	MP-3	Z	.003	.003	0	%100
21	MP-4	Z	.003	.003	0	%100
22	MP-5	Z	.003	.003	0	%100
23	MP-6	Z	.002	.002	0	%100
24	MP-7	Z	.003	.003	0	%100
25	MP-8	Z	.003	.003	0	%100
26	MP-9	Z	.002	.002	0	%100
27	MP-DNU	Z	.002	.002	0	%100

**Member Distributed Loads (BLC 32 : 300 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
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Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
 Model Name : Oxford / Fritz Property (BU 876362)

June 24, 2022  
 8:42 AM  
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**Member Distributed Loads (BLC 32 : 300 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	PL1	X	-.001	-.001	0	%100
2	PL2	X	-.001	-.001	0	%100
3	PL3	X	0	0	0	%100
4	FF-H1	X	-.002	-.002	0	%100
5	FF-H2	X	-.003	-.003	0	%100
6	FF-H3	X	-.001	-.001	0	%100
7	GSI1	X	-.001	-.001	0	%100
8	GSI2	X	-.001	-.001	0	%100
9	GSI3	X	-.002	-.002	0	%100
10	IS-1	X	-.001	-.001	0	%100
11	IS-2	X	-.002	-.002	0	%100
12	HRC-1	X	-.000839	-.000839	0	%100
13	HRC-2	X	-.000873	-.000873	0	%100
14	HRC-3	X	-.002	-.002	0	%100
15	FF-HR1	X	-.00072	-.00072	0	%100
16	FF-HR2	X	-.001	-.001	0	%100
17	FF-HR3	X	-.000564	-.000564	0	%100
18	MP-1	X	-.001	-.001	0	%100
19	MP-2	X	-.001	-.001	0	%100
20	MP-3	X	-.001	-.001	0	%100
21	MP-4	X	-.001	-.001	0	%100
22	MP-5	X	-.001	-.001	0	%100
23	MP-6	X	-.000981	-.000981	0	%100
24	MP-7	X	-.001	-.001	0	%100
25	MP-8	X	-.001	-.001	0	%100
26	MP-9	X	-.001	-.001	0	%100
27	MP-DNU	X	-.001	-.001	0	%100
28	PL1	Z	.002	.002	0	%100
29	PL2	Z	.002	.002	0	%100
30	PL3	Z	0	0	0	%100
31	FF-H1	Z	.003	.003	0	%100
32	FF-H2	Z	.005	.005	0	%100
33	FF-H3	Z	.003	.003	0	%100
34	GSI1	Z	.002	.002	0	%100
35	GSI2	Z	.002	.002	0	%100
36	GSI3	Z	.005	.005	0	%100
37	IS-1	Z	.002	.002	0	%100
38	IS-2	Z	.004	.004	0	%100
39	HRC-1	Z	.001	.001	0	%100
40	HRC-2	Z	.001	.001	0	%100
41	HRC-3	Z	.003	.003	0	%100
42	FF-HR1	Z	.001	.001	0	%100
43	FF-HR2	Z	.002	.002	0	%100
44	FF-HR3	Z	.001	.001	0	%100
45	MP-1	Z	.002	.002	0	%100
46	MP-2	Z	.002	.002	0	%100
47	MP-3	Z	.002	.002	0	%100
48	MP-4	Z	.002	.002	0	%100
49	MP-5	Z	.002	.002	0	%100
50	MP-6	Z	.002	.002	0	%100
51	MP-7	Z	.002	.002	0	%100
52	MP-8	Z	.002	.002	0	%100
53	MP-9	Z	.002	.002	0	%100
54	MP-DNU	Z	.002	.002	0	%100

**Member Distributed Loads (BLC 33 : 315 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
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Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
 Model Name : Oxford / Fritz Property (BU 876362)

June 24, 2022  
 8:42 AM  
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**Member Distributed Loads (BLC 33 : 315 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft]	End Magnitude[k/ft]	Start Location[ft.%]	End Location[ft.%]	
1	PL1	X	-0.02	-0.02	0	%100
2	PL2	X	-0.001	-0.001	0	%100
3	PL3	X	-0.00047	-0.00047	0	%100
4	FF-H1	X	-0.003	-0.003	0	%100
5	FF-H2	X	-0.004	-0.004	0	%100
6	FF-H3	X	-0.001	-0.001	0	%100
7	GSI1	X	-0.000897	-0.000897	0	%100
8	GSI2	X	-0.003	-0.003	0	%100
9	GSI3	X	-0.003	-0.003	0	%100
10	IS-1	X	-0.003	-0.003	0	%100
11	IS-2	X	-0.002	-0.002	0	%100
12	HRC-1	X	-0.000614	-0.000614	0	%100
13	HRC-2	X	-0.002	-0.002	0	%100
14	HRC-3	X	-0.002	-0.002	0	%100
15	FF-HR1	X	-0.001	-0.001	0	%100
16	FF-HR2	X	-0.002	-0.002	0	%100
17	FF-HR3	X	-0.000413	-0.000413	0	%100
18	MP-1	X	-0.002	-0.002	0	%100
19	MP-2	X	-0.002	-0.002	0	%100
20	MP-3	X	-0.002	-0.002	0	%100
21	MP-4	X	-0.002	-0.002	0	%100
22	MP-5	X	-0.002	-0.002	0	%100
23	MP-6	X	-0.001	-0.001	0	%100
24	MP-7	X	-0.002	-0.002	0	%100
25	MP-8	X	-0.002	-0.002	0	%100
26	MP-9	X	-0.002	-0.002	0	%100
27	MP-DNU	X	-0.002	-0.002	0	%100
28	PL1	Z	0.002	0.002	0	%100
29	PL2	Z	0.001	0.001	0	%100
30	PL3	Z	0.000461	0.000461	0	%100
31	FF-H1	Z	0.003	0.003	0	%100
32	FF-H2	Z	0.004	0.004	0	%100
33	FF-H3	Z	0.001	0.001	0	%100
34	GSI1	Z	0.000987	0.000987	0	%100
35	GSI2	Z	0.002	0.002	0	%100
36	GSI3	Z	0.004	0.004	0	%100
37	IS-1	Z	0.002	0.002	0	%100
38	IS-2	Z	0.003	0.003	0	%100
39	HRC-1	Z	0.000629	0.000629	0	%100
40	HRC-2	Z	0.002	0.002	0	%100
41	HRC-3	Z	0.002	0.002	0	%100
42	FF-HR1	Z	0.001	0.001	0	%100
43	FF-HR2	Z	0.002	0.002	0	%100
44	FF-HR3	Z	0.000504	0.000504	0	%100
45	MP-1	Z	0.002	0.002	0	%100
46	MP-2	Z	0.002	0.002	0	%100
47	MP-3	Z	0.002	0.002	0	%100
48	MP-4	Z	0.002	0.002	0	%100
49	MP-5	Z	0.002	0.002	0	%100
50	MP-6	Z	0.002	0.002	0	%100
51	MP-7	Z	0.002	0.002	0	%100
52	MP-8	Z	0.002	0.002	0	%100
53	MP-9	Z	0.002	0.002	0	%100
54	MP-DNU	Z	0.002	0.002	0	%100

**Member Distributed Loads (BLC 34 : 330 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft]	End Magnitude[k/ft]	Start Location[ft.%]	End Location[ft.%]
RISA-3D Version 17.0.4	[C:\.....\RISA\Mount Rev H.r3d]				Page 65



Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
 Model Name : Oxford / Fritz Property (BU 876362)

June 24, 2022  
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 Checked By: PHX

**Member Distributed Loads (BLC 34 : 330 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft]	End Magnitude[k/ft]	Start Location[ft.%]	End Location[ft.%]	
1	PL1	X	-0.02	-0.02	0	%100
2	PL2	X	-0.001	-0.001	0	%100
3	PL3	X	-0.001	-0.001	0	%100
4	FF-H1	X	-0.005	-0.005	0	%100
5	FF-H2	X	-0.004	-0.004	0	%100
6	FF-H3	X	0	0	0	%100
7	GSI1	X	0	0	0	%100
8	GSI2	X	-0.004	-0.004	0	%100
9	GSI3	X	-0.004	-0.004	0	%100
10	IS-1	X	-0.004	-0.004	0	%100
11	IS-2	X	-0.002	-0.002	0	%100
12	HRC-1	X	0	0	0	%100
13	HRC-2	X	-0.003	-0.003	0	%100
14	HRC-3	X	-0.003	-0.003	0	%100
15	FF-HR1	X	-0.002	-0.002	0	%100
16	FF-HR2	X	-0.002	-0.002	0	%100
17	FF-HR3	X	0	0	0	%100
18	MP-1	X	-0.002	-0.002	0	%100
19	MP-2	X	-0.002	-0.002	0	%100
20	MP-3	X	-0.002	-0.002	0	%100
21	MP-4	X	-0.002	-0.002	0	%100
22	MP-5	X	-0.002	-0.002	0	%100
23	MP-6	X	-0.002	-0.002	0	%100
24	MP-7	X	-0.002	-0.002	0	%100
25	MP-8	X	-0.002	-0.002	0	%100
26	MP-9	X	-0.002	-0.002	0	%100
27	MP-DNU	X	-0.002	-0.002	0	%100
28	PL1	Z	0.001	0.001	0	%100
29	PL2	Z	0.000651	0.000651	0	%100
30	PL3	Z	0.000629	0.000629	0	%100
31	FF-H1	Z	0.003	0.003	0	%100
32	FF-H2	Z	0.003	0.003	0	%100
33	FF-H3	Z	0	0	0	%100
34	GSI1	Z	0	0	0	%100
35	GSI2	Z	0.002	0.002	0	%100
36	GSI3	Z	0.002	0.002	0	%100
37	IS-1	Z	0.002	0.002	0	%100
38	IS-2	Z	0.001	0.001	0	%100
39	HRC-1	Z	0	0	0	%100
40	HRC-2	Z	0.001	0.001	0	%100
41	HRC-3	Z	0.001	0.001	0	%100
42	FF-HR1	Z	0.001	0.001	0	%100
43	FF-HR2	Z	0.001	0.001	0	%100
44	FF-HR3	Z	0	0	0	%100
45	MP-1	Z	0.001	0.001	0	%100
46	MP-2	Z	0.001	0.001	0	%100
47	MP-3	Z	0.001	0.001	0	%100
48	MP-4	Z	0.001	0.001	0	%100
49	MP-5	Z	0.001	0.001	0	%100
50	MP-6	Z	0.001	0.001	0	%100
51	MP-7	Z	0.001	0.001	0	%100
52	MP-8	Z	0.001	0.001	0	%100
53	MP-9	Z	0.001	0.001	0	%100
54	MP-DNU	Z	0.001	0.001	0	%100

**Member Distributed Loads (BLC 39 : BLC 1 Transient Area Loads)**

Member Label	Direction	Start Magnitude[k/ft]	End Magnitude[k/ft]	Start Location[ft.%]	End Location[ft.%]
RISA-3D Version 17.0.4	[C:\.....\RISA\Mount Rev H.r3d]				Page 66



Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
 Model Name : Oxford / Fritz Property (BU 876362)

June 24, 2022  
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 Checked By: PHX

**Member Distributed Loads (BLC 39 : BLC 1 Transient Area Loads) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	FF-H1	Y	-0.11	-0.11	1.413	3.587
2	FF-H3	Y	-0.07	-0.1	6.4	8.534
3	FF-H3	Y	-0.1	-0.13	8.534	10.667
4	GSI3	Y	-0.105	-0.34	.772	.964
5	GSI3	Y	-0.34	.002	.964	1.156
6	GSI3	Y	.002	.002	1.156	1.348
7	GSI3	Y	.002	.002	1.348	1.54
8	GSI3	Y	.002	.002	1.54	1.732
9	GSI3	Y	.002	-.028	1.732	1.924
10	GSI3	Y	-.028	-.045	1.924	2.116
11	GSI3	Y	-.045	-.015	2.116	2.308
12	GSI3	Y	-.015	.002	2.308	2.5
13	GSI3	Y	.002	-.015	2.5	2.692
14	GSI3	Y	-.015	-.045	2.692	2.884
15	GSI3	Y	-.045	-.028	2.884	3.076
16	GSI3	Y	-.028	.002	3.076	3.268
17	GSI3	Y	.002	.002	3.268	3.46
18	GSI3	Y	.002	.002	3.46	3.652
19	GSI3	Y	.002	.002	3.652	3.845
20	GSI3	Y	.002	-.034	3.845	4.037
21	GSI3	Y	-.034	-.105	4.037	4.229
22	FF-H1	Y	-.105	-.034	6.438	6.63
23	FF-H1	Y	-.034	.002	6.63	6.822
24	FF-H1	Y	.002	.002	6.822	7.015
25	FF-H1	Y	.002	.002	7.015	7.207
26	FF-H1	Y	.002	.002	7.207	7.399
27	FF-H1	Y	.002	-.028	7.399	7.591
28	FF-H1	Y	-.028	-.045	7.591	7.783
29	FF-H1	Y	-.045	-.015	7.783	7.975
30	FF-H1	Y	-.015	.002	7.975	8.167
31	FF-H1	Y	.002	-.015	8.167	8.359
32	FF-H1	Y	-.015	-.045	8.359	8.551
33	FF-H1	Y	-.045	-.028	8.551	8.743
34	FF-H1	Y	-.028	.002	8.743	8.935
35	FF-H1	Y	.002	.002	8.935	9.127
36	FF-H1	Y	.002	.002	9.127	9.319
37	FF-H1	Y	.002	.002	9.319	9.511
38	FF-H1	Y	.002	-.034	9.511	9.703
39	FF-H1	Y	-.034	-.105	9.703	9.895
40	FF-H2	Y	-.011	-.011	1.413	3.587
41	GSI1	Y	-.007	-.011	1	3
42	GSI1	Y	-.011	-.014	3	5
43	FF-H2	Y	-.0001761	-.003	5.334	6.4
44	FF-H2	Y	-.003	-.004	6.4	7.467
45	FF-H2	Y	-.004	-.005	7.467	8.534
46	FF-H2	Y	-.005	-.006	8.534	9.6
47	FF-H2	Y	-.006	-.003	9.6	10.667
48	FF-H3	Y	-.001	-.006	0	1.067
49	FF-H3	Y	-.006	-.006	1.067	2.133
50	FF-H3	Y	-.006	-.005	2.133	3.2
51	FF-H3	Y	-.005	-.003	3.2	4.267
52	FF-H3	Y	-.003	-.0002529	4.267	5.334
53	GSI2	Y	-.011	-.009	0	1
54	GSI2	Y	-.009	-.009	1	2
55	GSI2	Y	-.009	-.012	2	3
56	GSI2	Y	-.011	-.013	3	4
57	GSI2	Y	-.013	-.011	4	5



Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
 Model Name : Oxford / Fritz Property (BU 876362)

June 24, 2022  
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 Checked By: PHX

**Member Distributed Loads (BLC 39 : BLC 1 Transient Area Loads) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
58	IS-1	Y	-.0006572	-.01	0	.577
59	IS-1	Y	-.01	-.017	.577	1.153
60	IS-1	Y	-.017	-.018	1.153	1.73
61	IS-1	Y	-.018	-.013	1.73	2.306
62	IS-1	Y	-.013	-.008	2.306	2.883
63	IS-2	Y	-.0003442	-.005	0	.367
64	IS-2	Y	-.005	-.012	.367	.733
65	IS-2	Y	-.012	-.013	.733	1.1
66	IS-2	Y	-.013	-.008	1.1	1.467
67	IS-2	Y	-.008	-.001	1.467	1.833
68	FF-H3	Y	-.003	-.003	4.935	5.739
69	GSI3	Y	-.0004672	-.004	3	4
70	GSI3	Y	-.004	-.007	4	5
71	FF-H1	Y	-.003	-.003	4.935	5.739
72	GSI1	Y	-.007	-.004	0	1
73	GSI1	Y	-.004	-.0004674	1	2
74	GSI3	Y	-.01	-.004	0	1
75	GSI3	Y	-.004	.0003916	1	2
76	FF-H2	Y	-.003	-.003	4.928	5.732
77	GSI1	Y	-.0004674	-.004	3	4
78	GSI1	Y	-.004	-.007	4	5

**Member Distributed Loads (BLC 40 : BLC 18 Transient Area Loads)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	FF-H1	Y	-.004	-.004	1.413	3.587
2	FF-H3	Y	-.003	-.004	6.4	8.534
3	FF-H3	Y	-.004	-.005	8.534	10.667
4	GSI3	Y	-.041	-.013	.772	.964
5	GSI3	Y	-.013	.0007728	.964	1.156
6	GSI3	Y	.0007728	.0007728	1.156	1.348
7	GSI3	Y	.0007728	.0007728	1.348	1.54
8	GSI3	Y	.0007728	.0007728	1.54	1.732
9	GSI3	Y	.0007728	-.011	1.732	1.924
10	GSI3	Y	-.011	-.018	1.924	2.116
11	GSI3	Y	-.018	-.006	2.116	2.308
12	GSI3	Y	-.006	.0007728	2.308	2.5
13	GSI3	Y	.0007728	-.006	2.5	2.692
14	GSI3	Y	-.006	-.018	2.692	2.884
15	GSI3	Y	-.018	-.011	2.884	3.076
16	GSI3	Y	-.011	.0007728	3.076	3.268
17	GSI3	Y	.0007728	.0007728	3.268	3.46
18	GSI3	Y	.0007728	.0007728	3.46	3.652
19	GSI3	Y	.0007728	.0007728	3.652	3.845
20	GSI3	Y	.0007728	-.013	3.845	4.037
21	GSI3	Y	-.013	-.041	4.037	4.229
22	FF-H1	Y	-.041	-.013	6.438	6.63
23	FF-H1	Y	-.013	.0007728	6.63	6.822
24	FF-H1	Y	.0007728	.0007728	6.822	7.015
25	FF-H1	Y	.0007728	.0007728	7.015	7.207
26	FF-H1	Y	.0007728	.0007728	7.207	7.399
27	FF-H1	Y	.0007728	-.011	7.399	7.591
28	FF-H1	Y	-.011	-.018	7.591	7.783
29	FF-H1	Y	-.018	-.006	7.783	7.975
30	FF-H1	Y	-.006	.0007728	7.975	8.167
31	FF-H1	Y	.0007728	-.006	8.167	8.359
32	FF-H1	Y	-.006	-.018	8.359	8.551





Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
 Model Name : Oxford / Fritz Property (BU 876362)

June 24, 2022  
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 Checked By: PHX

**Member Distributed Loads (BLC 40 : BLC 18 Transient Area Loads) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
33	FF-H1	Y	-0.18	-0.11	8.551	8.743
34	FF-H1	Y	-0.11	.0007728	8.743	8.935
35	FF-H1	Y	.0007728	.0007728	8.935	9.127
36	FF-H1	Y	.0007728	.0007728	9.127	9.319
37	FF-H1	Y	.0007728	.0007728	9.319	9.511
38	FF-H1	Y	.0007728	-.013	9.511	9.703
39	FF-H1	Y	-.013	-.041	9.703	9.895
40	FF-H2	Y	-.004	-.004	1.413	3.587
41	GS1	Y	-.003	-.004	1	3
42	GS1	Y	-.004	-.006	3	5
43	FF-H2	Y	-6.899e-5	-.001	5.334	6.4
44	FF-H2	Y	-.001	-.002	6.4	7.467
45	FF-H2	Y	-.002	-.002	7.467	8.534
46	FF-H2	Y	-.002	-.002	8.534	9.6
47	FF-H2	Y	-.002	-.001	9.6	10.667
48	FF-H3	Y	-.0004607	-.002	0	1.067
49	FF-H3	Y	-.002	-.002	1.067	2.133
50	FF-H3	Y	-.002	-.002	2.133	3.2
51	FF-H3	Y	-.002	-.001	3.2	4.267
52	FF-H3	Y	-.001	-9.906e-5	4.267	5.334
53	GS2	Y	-.004	-.004	0	1
54	GS2	Y	-.004	-.003	1	2
55	GS2	Y	-.004	-.005	2	3
56	GS2	Y	-.004	-.005	3	4
57	GS2	Y	-.005	-.004	4	5
58	IS-1	Y	-.0002574	-.004	0	.577
59	IS-1	Y	-.004	-.007	.577	1.153
60	IS-1	Y	-.007	-.007	1.153	1.73
61	IS-1	Y	-.007	-.005	1.73	2.306
62	IS-1	Y	-.005	-.003	2.306	2.883
63	IS-2	Y	-.0001348	-.002	0	.367
64	IS-2	Y	-.002	-.005	.367	.733
65	IS-2	Y	-.005	-.005	.733	1.1
66	IS-2	Y	-.005	-.003	1.1	1.467
67	IS-2	Y	-.003	-.0005162	1.467	1.833
68	FF-H3	Y	-.001	-.001	4.935	5.739
69	GS3	Y	-.000183	-.001	3	4
70	GS3	Y	-.001	-.003	4	5
71	FF-H1	Y	-.001	-.001	4.935	5.739
72	GS1	Y	-.003	-.001	0	1
73	GS1	Y	-.001	-.0001831	1	2
74	GS3	Y	-.004	-.002	0	1
75	GS3	Y	-.002	.0001534	1	2
76	FF-H2	Y	-.001	-.001	4.928	5.732
77	GS1	Y	-.0001831	-.001	3	4
78	GS1	Y	-.001	-.003	4	5

**Member Area Loads (BLC 1 : Dead)**

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]	
1	GS15	FF2	GS12	Y	Two Way	-.012	
2	GS11	GS14	FF4	Y	Two Way	-.012	
3	GS16	GS13	SF1-2	Y	Two Way	-.012	
4	GS16	GS15	N55	N56A	Y	Two Way	-.012
5	N60	N54A	GS11	GS12	Y	Two Way	-.012
6	GS13	N71	N58	GS14	Y	Two Way	-.012



Company : Tower Engineering Professionals  
 Designer : AJS  
 Job Number : TEP No. 25611.714159  
 Model Name : Oxford / Fritz Property (BU 876362)

June 24, 2022  
 8:42 AM  
 Checked By: PHX

**Member Area Loads (BLC 18 : Ice Weight)**

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]	
1	GS15	FF2	GS12	Y	Two Way	-.005	
2	GS11	GS14	FF4	Y	Two Way	-.005	
3	GS16	GS13	SF1-2	Y	Two Way	-.005	
4	GS16	GS15	N55	N56A	Y	Two Way	-.005
5	N60	N54A	GS11	GS12	Y	Two Way	-.005
6	GS13	N71	N58	GS14	Y	Two Way	-.005

**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	SA1	max	2.252	33	2.732	45	1.214	25	.426	5	2.086	17	1.134	26
2		min	-2.243	9	-.604	5	-1.211	17	-1.816	45	-2.09	25	-.398	2
3	SA2	max	2.081	3	2.717	56	1.399	4	1.743	56	1.981	11	1.187	25
4		min	-2.082	27	-.756	15	-1.408	28	-.479	15	-1.987	19	-.521	17
5	SA3	max	.631	17	2.735	18	2.602	22	.544	6	2.004	6	.547	10
6		min	-.639	25	-.708	10	-2.596	14	-.643	30	-2.012	30	-2.049	18
7	Totals:	max	4.019	2	6.37	42	3.905	22						
8		min	-4.019	26	2.422	84	-3.905	14						

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

Member	Shape	Code Check	Loc...	LC	Shea. Loc...	Dir	LC	phi*Pn	phi*Pn	phi*M...	phi*M...	Eqn		
1	HRC-1	L2.5x2.5x4	.678	0	18	.083	0	z	26	37.734	38.556	1.114	2.537	1.HJ2-1
2	FF-HR1	PIPE 2.0	.487	9.6...	25	.423	9.6...	z	18	2.023	32.13	1.872	1.872	3.HJ3-6
3	GS12	C5X9	.437	2.5	33	.059	1.3...	y	18	75.694	85.536	1.909	11.853	1.HJ1-1b
4	HRC-2	L2.5x2.5x4	.424	0	30	.068	0	z	30	37.734	38.556	1.114	2.537	2.HJ2-1
5	MP-1	PIPE 2.0	.405	5.5	28	.066	5.5	z	29	19.964	32.13	1.872	1.872	1.HJ1-1b
6	FF-H1	C5X9	.392	5	28	.239	5.6...	z	33	60.957	85.536	1.909	11.853	1.HJ1-1b
7	FF-H2	C5X9	.391	5	33	.182	7.8...	z	23	60.957	85.536	1.909	11.853	1.HJ1-1b
8	HRC-3	L2.5x2.5x4	.386	0	27	.061	0	z	19	37.734	38.556	1.114	2.537	2.HJ2-1
9	GS11	C5X9	.386	2.5	29	.045	2.5	y	45	75.694	85.536	1.909	11.853	1.HJ1-1b
10	MP-4	PIPE 2.0	.381	5.5	18	.068	5.5	z	18	19.964	32.13	1.872	1.872	2.HJ1-1b
11	MP-3	PIPE 2.0	.374	2.5	26	.080	5.5	z	26	23.088	32.13	1.872	1.872	1.HJ1-1b
12	FF-H3	C5X9	.370	5.6...	20	.158	5.3...	z	25	60.957	85.536	1.909	11.853	1.HJ1-1b
13	MP-7	PIPE 2.0	.370	5.5	23	.074	5.5	z	23	19.964	32.13	1.872	1.872	2.HJ1-1b
14	MP-5	PIPE 2.0	.368	5.5	23	.074	5.5	z	33	19.964	32.13	1.872	1.872	1.HJ1-1b
15	MP-2	PIPE 2.0	.366	5.5	23	.090	5.5	z	27	19.964	32.13	1.872	1.872	1.HJ1-1b
16	GS13	C5X9	.363	2.5	23	.044	2.5	y	57	75.694	85.536	1.909	11.853	1.HJ1-1b
17	MP-8	PIPE 2.0	.359	5.5	29	.083	5.5	z	22	19.964	32.13	1.872	1.872	1.HJ1-1b
18	FF-HR2	PIPE 2.0	.352	1.4...	18	.218	1.3...	z	24	2.023	32.13	1.872	1.872	2.HJ1-1b
19	MP-9	PIPE 2.0	.321	3.5	18	.087	3.5	z	19	19.964	32.13	1.872	1.872	1.HJ1-1b
20	FF-HR3	PIPE 2.0	.293	.833	22	.178	9.0...	z	31	2.231	32.13	1.872	1.872	2.HJ1-1b
21	MP-6	PIPE 2.0	.242	3.5	29	.096	3.5	z	21	19.964	32.13	1.872	1.872	1.HJ1-1b
22	PL2	PL1x14	.219	0	18	.103	0	y	30	438.779	453.6	9.45	132.3	1.HJ1-1b
23	PL1	PL1x14	.217	0	45	.100	0	y	33	438.779	453.6	9.45	132.3	1.HJ1-1b
24	PL3	PL1x14	.216	0	56	.094	0	y	19	438.779	453.6	9.45	132.3	1.HJ1-1b
25	MP-DNU	PIPE 2.0	.201	3.5	29	.088	3.5	z	31	19.964	32.13	1.872	1.872	2.HJ1-1b
26	IS-2	C5X9	.121	0	33	.028	.917	z	33	80.545	85.536	1.909	11.853	1.HJ1-1b
27	IS-1	C5X9	.117	0	21	.047	.27	z	32	76.425	85.536	1.909	11.853	1.HJ1-1b

**APPENDIX D**  
**ADDITIONAL CALCULATIONS**



**Moment Bolt Group - Connection Angle****RISA 3D Results**

$F_x =$	1.762	kip
$F_y =$	1.358	kip
$F_z =$	0.492	kip
$M_x =$	0.005	kip*ft
$M_y =$	0.333	kip*ft
$M_z =$	3.245	kip*ft

**Code Checks Per ANSI/TIA-222-H**Tension Capacity= 3.4% **PASS**Shear Capacity= 25.5% **PASS****Tension**

$$T_{Total} = \frac{F_z}{3 \text{ bolts}} + \frac{M_y / 0.375 \text{ ft}}{1 \text{ bolt}}$$

$$T_{Total} = 1.05 \text{ kip}$$

$$\phi T = \phi F_{ub} A_{nt}$$

$$\phi T = (0.75)(120 \text{ ksi})(0.344 \text{ in}^2)$$

$$\phi T = 30.96 \text{ kip}$$

**Shear**

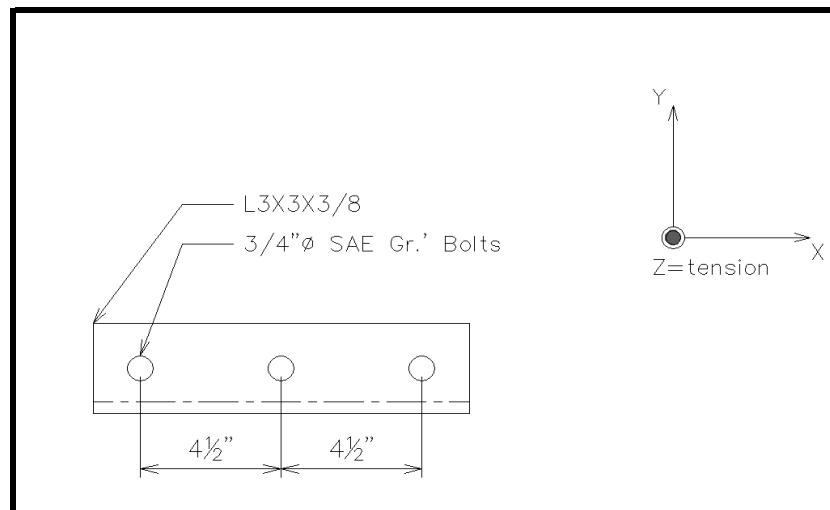
$$V_{Total} = \frac{\sqrt{F_x^2 + F_y^2}}{3 \text{ bolts}} + \frac{M_z / 0.375 \text{ ft}}{2 \text{ bolts}}$$

$$V_{Total} = 5.07 \text{ kip}$$

$$\phi V = \phi(0.625)R_b F_{ub}(0.8)A_b$$

$$\phi V = (0.75)(0.625)(1.0)(120 \text{ ksi})(0.8) \left( \frac{\pi}{4} \cdot 0.75 \text{ in}^2 \right)$$

$$\phi V = 19.88 \text{ kip}$$



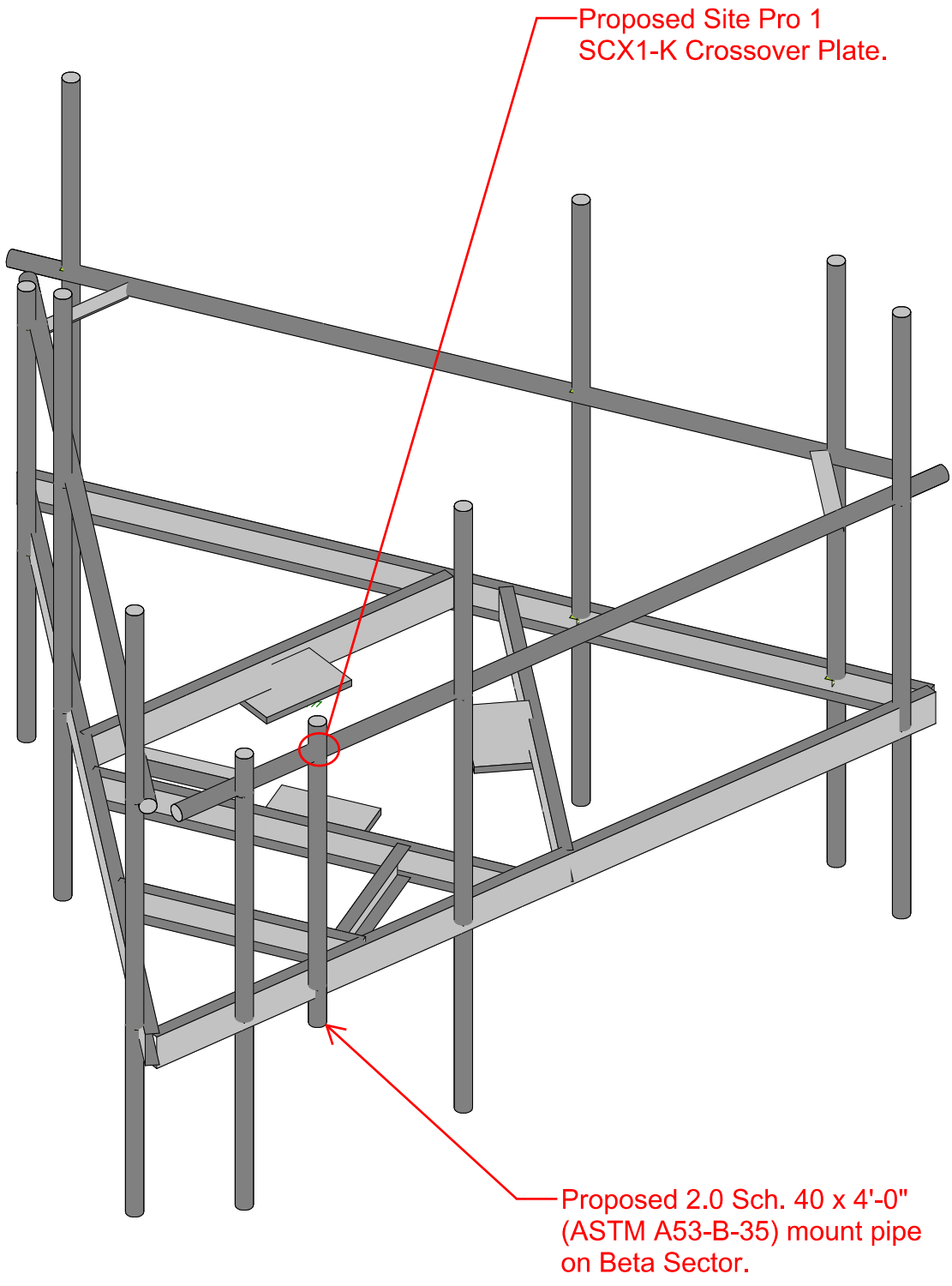
Job Name: Oxford / Fritz Property (BU 876362)

Job Number: TEP No. 25611.714159

Calc: AJS Check: PHX

Date: 6/24/2022

**APPENDIX E**  
**SUPPLEMENTAL DRAWINGS**



Tower Engineering Profes...  
AJS  
TEP No. 25611.714159

Oxford / Fritz Property (BU 876362)

SK - 11  
June 24, 2022 at 8:49 AM  
Mount Rev H.r3d



# Radio Frequency Emissions Analysis Report



**Site ID: CTNH518A**

Crown Oxford Monopole  
340 Oxford Street  
Oxford, CT 06478

**August 11, 2022**

**Fox Hill Telecom Project Number: 221570**

Site Compliance Summary	
Compliance Status:	<b>COMPLIANT</b>
Site total MPE% of FCC general population allowable limit:	<b>16.83 %</b>

August 11, 2022

T-MOBILE  
Attn: RF Manager  
35 Griffin Road South  
Bloomfield, CT 06009

### Emissions Analysis for Site: **CTNH518A – Crown Oxford Monopole**

Fox Hill Telecom, Inc (“Fox Hill”) was directed to analyze the proposed upgrades to the T-MOBILE facility located at **340 Oxford Street, Oxford, CT**, for the purpose of determining whether the emissions from the Proposed T-MOBILE Antenna Installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ( $\mu\text{W}/\text{cm}^2$ ). The number of  $\mu\text{W}/\text{cm}^2$  calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general population may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general population would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

General population exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ( $\mu\text{W}/\text{cm}^2$ ). The general population exposure limits for the 600 MHz & 700 MHz bands are approximately  $400 \mu\text{W}/\text{cm}^2$  and  $467 \mu\text{W}/\text{cm}^2$  respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 2500 MHz (BRS) bands is  $1000 \mu\text{W}/\text{cm}^2$ . Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.



Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.

## CALCULATIONS

Calculations were performed for the proposed upgrades to the T-MOBILE antenna facility located at **340 Oxford Street, Oxford, CT**, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since T-MOBILE is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB for directional panel antennas was focused at the base of the tower. For this report the sample point is the top of a 6-foot person standing at the base of the tower.

Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. All power values expressed and analyzed are maximum power levels expected to be used on all radios.

All emissions values for additional carriers were taken from the Connecticut Siting Council (CSC) active MPE database. Values in this database are provided by the individual carriers themselves

For each sector the following channel counts, frequency bands and power levels were utilized as shown in *Table 1*:

Technology	Frequency Band	Channel Count	Transmit Power per Channel (W)
LTE / 5G NR	600 MHz	2	40
LTE	700 MHz	2	20
LTE	1900 MHz (PCS)	4	40
LTE	2100 MHz (AWS)	4	40
LTE / 5G NR	2500 MHz (BRS)	8	20

*Table 1: Channel Data Table*





The following antennas listed in *Table 2* were used in the modeling for transmission in the 600 MHz, 700 MHz, 1900 MHz (PCS), 2100 MHz (AWS) and 2500 MHz (BRS) frequency bands. This is based on feedback from the carrier with regards to anticipated antenna selection. Maximum gain values for all antennas are listed in the Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB for directional panel antennas, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.

Sector	Antenna Number	Antenna Make / Model	Antenna Centerline (ft)
A	1	RFS APXVAALL24_43-U-NA20	152
A	2	Commscope VV-65B-R1	152
A	3	Ericsson AIR6419 B41	152
B	1	RFS APXVAALL24_43-U-NA20	152
B	2	Commscope VV-65B-R1	152
B	3	Ericsson AIR6419 B41	152
C	1	RFS APXVAALL24_43-U-NA20	152
C	2	Commscope VV-65B-R1	152
C	3	Ericsson AIR6419 B41	152

*Table 2: Antenna Data*

All calculations were done with respect to uncontrolled / general population threshold limits.



## RESULTS

Per the calculations completed for the proposed T-MOBILE configurations *Table 3* shows resulting emissions power levels and percentages of the FCC’s allowable general population limit.

Antenna ID	Antenna Make / Model	Frequency Bands	Antenna Gain (dBd)	Channel Count	Total TX Power (W)	ERP (W)	MPE %
Antenna A1	RFS APXVAALL24_43-U-NA20	600 MHz / 700 MHz	13.65 / 13.85	4	120	2,824.56	1.13
Antenna A2	Commscope VV-65B-R1	1900 MHz (PCS) / 2100 MHz (AWS)	16.55 / 16.85	8	320	14,976.45	2.53
Antenna A3	Ericsson AIR6419 B41	2500 MHz (BRS)	21.5	8	160	22,600.60	3.81
Sector A Composite MPE%							<b>7.47</b>
Antenna B1	RFS APXVAALL24_43-U-NA20	600 MHz / 700 MHz	13.65 / 13.85	4	120	2,824.56	1.13
Antenna B2	Commscope VV-65B-R1	1900 MHz (PCS) / 2100 MHz (AWS)	16.55 / 16.85	8	320	14,976.45	2.53
Antenna B3	Ericsson AIR6419 B41	2500 MHz (BRS)	21.5	8	160	22,600.60	3.81
Sector B Composite MPE%							<b>7.47</b>
Antenna C1	RFS APXVAALL24_43-U-NA20	600 MHz / 700 MHz	13.65 / 13.85	4	120	2,824.56	1.13
Antenna C2	Commscope VV-65B-R1	1900 MHz (PCS) / 2100 MHz (AWS)	16.55 / 16.85	8	320	14,976.45	2.53
Antenna C3	Ericsson AIR6419 B41	2500 MHz (BRS)	21.5	8	160	22,600.60	3.81
Sector C Composite MPE%							<b>7.47</b>

*Table 3: T-MOBILE Emissions Levels*

The Following table (*table 4*) shows all additional carriers on site and their MPE% as recorded in the CSC active MPE database for this facility along with the newly calculated maximum T-MOBILE MPE contributions per this report. FCC OET 65 specifies that for carriers utilizing directional antennas that the highest recorded sector value be used for composite site MPE values due to their greatly reduced emissions contributions in the directions of the adjacent sectors. For this site, all three sectors have the same configuration yielding the same results on all three sectors. *Table 5* below shows a summary for each T-MOBILE Sector as well as the composite MPE value for the site.

<b>Site Composite MPE%</b>	
<b>Carrier</b>	<b>MPE%</b>
T-MOBILE – Max Per Sector Value	<b>7.47 %</b>
Dish	2.32 %
AT&T	1.72 %
Verizon Wireless	2.76 %
Sprint	2.56 %
<b>Site Total MPE %:</b>	<b>16.83 %</b>

*Table 4: All Carrier MPE Contributions*

T-MOBILE Sector A Total:	7.47 %
T-MOBILE Sector B Total:	7.47 %
T-MOBILE Sector C Total:	7.47 %
<b>Site Total:</b>	<b>16.83 %</b>

*Table 5: Site MPE Summary*



FCC OET 65 specifies that for carriers utilizing directional antennas that the highest recorded sector value be used for composite site MPE values due to their greatly reduced emissions contributions in the directions of the adjacent sectors. *Table 6* below details a breakdown by frequency band and technology for the MPE power values for the maximum calculated T-MOBILE sector(s). For this site, all three sectors have the same configuration yielding the same results on all three sectors.

T-MOBILE _ Frequency Band / Technology Max Power Values (Per Sector)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density ( $\mu\text{W}/\text{cm}^2$ )	Frequency (MHz)	Allowable MPE ( $\mu\text{W}/\text{cm}^2$ )	Calculated % MPE
T-Mobile 600 MHz LTE / 5G NR	2	926.96	152	3.13	600 MHz	400	0.78%
T-Mobile 700 MHz LTE	2	485.32	152	1.64	700 MHz	467	0.35%
T-Mobile 1900 MHz (PCS) LTE	4	1,807.42	152	12.19	1900 MHz (PCS)	1000	1.22%
T-Mobile 2100 MHz (AWS) LTE	4	1,936.69	152	13.07	2100 MHz (AWS)	1000	1.31%
T-Mobile 2500 MHz (BRS) LTE / 5G NR	8	2,825.08	152	38.12	2500 MHz (BRS)	1000	3.81%
						<b>Total:</b>	<b>7.47%</b>

*Table 6: T-MOBILE Maximum Sector MPE Power Values*

## Summary

All calculations performed for this analysis yielded results that were **within** the allowable limits for general population exposure to RF Emissions.

The anticipated maximum composite contributions from the T-MOBILE facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

T-MOBILE Sector	Power Density Value (%)
Sector A:	7.47 %
Sector B:	7.47 %
Sector C:	7.47 %
T-MOBILE Maximum Total (per sector):	7.47 %
Site Total:	16.83 %
Site Compliance Status:	<b>COMPLIANT</b>

The anticipated composite MPE value for this site assuming all carriers present is **16.83 %** of the allowable FCC established general population limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were well within the allowable 100% threshold standard per the federal government.



Scott Heffernan  
Principal RF Engineer  
**Fox Hill Telecom, Inc**  
Holden, MA 01520  
(978)660-3998





4 SYLVAN WAY  
PARSIPPANY, NJ 07054



3530 TORINGDON WAY, SUITE 300  
CHARLOTTE, NC 28277



1717 S. BOULDER  
SUITE 300  
TULSA, OK 74119  
PH: (918) 587-4630  
www.btgrp.com

**T-MOBILE SITE NUMBER: CTNH518A**

**T-MOBILE SITE NAME: CROWN OXFORD MONOPOLE**

**SITE TYPE: MONOPOLE**

**TOWER HEIGHT: 150'-0"**

**BUSINESS UNIT #: 876362**

**SITE ADDRESS: 338 OXFORD RD  
OXFORD, CT 06478**

**COUNTY: NEW HAVEN**

**JURISDICTION: CONNECTICUT  
SITING COUNCIL**

**T-MOBILE ANCHOR SITE CONFIGURATION: 67E5D998E ODE+6160**

**T-MOBILE SITE NUMBER:  
CTNH518A**

**BU #: 876362  
OXFORD / FRITZ  
PROPERTY**

**338 OXFORD RD  
OXFORD, CT 06478**

**EXISTING  
150'-0" MONOPOLE**

**ISSUED FOR:**

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	7/14/22	MEH	PRELIMINARY REVIEW	MTJ
0	8/12/22	DAS	CONSTRUCTION	MTJ

**SITE INFORMATION**

CROWN CASTLE USA INC. SITE NAME:	OXFORD / FRITZ PROPERTY
SITE ADDRESS:	338 OXFORD RD OXFORD, CT 06478
COUNTY:	NEW HAVEN
MAP/PARCEL #:	34/9/34 A
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41.428028°
LONGITUDE:	-73.108623°
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	369 FT
CURRENT ZONING:	C- COMMERCIAL DISTRICT
JURISDICTION:	CONNECTICUT SITING COUNCIL
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	BRALEY GINA & KAPUSTA JOHN 338 OXFORD RD OXFORD, CT 06478
TOWER OWNER:	CROWN CASTLE 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	T-MOBILE 35 GRIFFIN ROAD BLOOMFIELD, CT 06002
ELECTRIC PROVIDER:	CONNECTICUT LIGHT AND POWER CO 800-286-2000
TELCO PROVIDER:	LIGHTOWER 888-583-4237

**DRAWING INDEX**

SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1.1	OVERALL SITE PLAN
C-1.2	SITE PLAN & ENLARGED SITE PLAN
C-2	FINAL ELEVATION & EXISTING ANTENNA PLANS
C-3	ANTENNA & CABLE SCHEDULE
C-4	PLUMBING DIAGRAM
C-5	EQUIPMENT SPECS
E-1	AC PANEL SCHEDULES & ONE LINE DIAGRAM
G-1	ANTENNA GROUNDING DIAGRAM
G-2	GROUNDING DETAILS
G-3	GROUNDING DETAILS

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR FULL SIZE. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

**PROJECT DESCRIPTION**

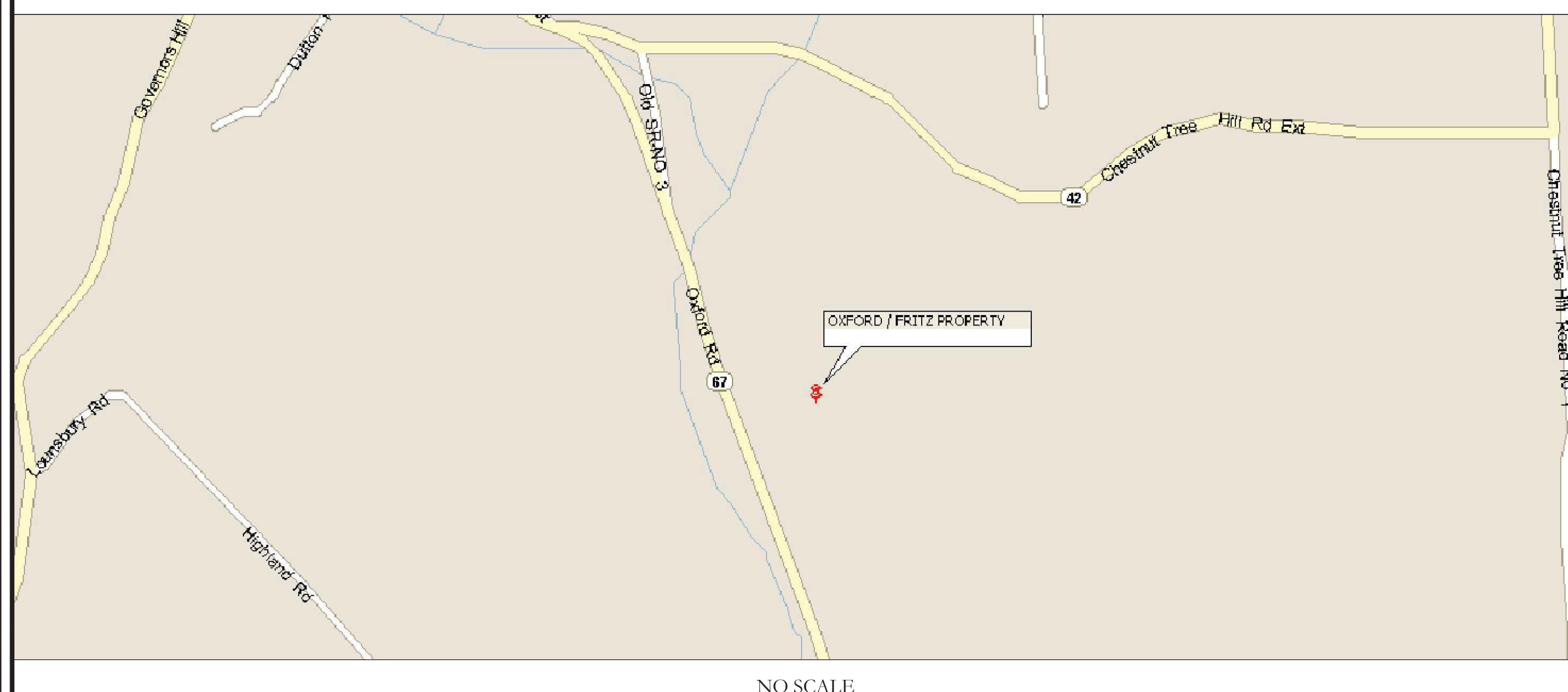
THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.

- TOWER SCOPE OF WORK:**
- REMOVE (3) ANTENNAS
  - REMOVE (6) 7/8" COAX CABLES
  - REMOVE (12) TMAs
  - REMOVE (5) HYBRID CABLES
  - REMOVE (9) RRHs
  - INSTALL (9) ANTENNAS
  - INSTALL (6) RRHs
  - INSTALL (3) 6/24 4AWG HYBRID TRUNKS
  - INSTALL MOUNT MODIFICATIONS REQUIRED PER MOUNT ANALYSIS BY TOWER ENGINEERING PROFESSIONALS DATED JUNE 24, 2022

- GROUND SCOPE OF WORK:**
- REMOVE (1) DUW30
  - REMOVE (3) RUS01 B2
  - REMOVE (6) RUS01 B4
  - INSTALL (1) RP 6651
  - INSTALL (2) PSU 4813 VR4A (KIT)

**NOTE:**  
PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN NOC AT (800) 788-7011 & CROWN CONSTRUCTION MANAGER.

**LOCATION MAP**



NO SCALE

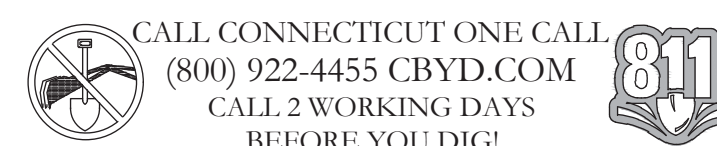
**APPLICABLE CODES/REFERENCE DOCUMENTS**

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

CODE TYPE	CODE
BUILDING	2015 IBC
MECHANICAL	2015 IMC
ELECTRICAL	2017 NEC

**REFERENCE DOCUMENTS:**

STRUCTURAL ANALYSIS:	TOWER ENGINEERING PROFESSIONALS
DATED:	6/29/22
MOUNT ANALYSIS:	TOWER ENGINEERING PROFESSIONALS
DATED:	6/24/22
RFDS REVISION:	4
DATED:	4/26/22
ORDER ID:	621867
REVISION:	0



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**APPROVALS**

APPROVAL	SIGNATURE	DATE
PROPERTY OWNER OR REP.	_____	_____
LAND USE PLANNER	_____	_____
T-MOBILE	_____	_____
OPERATIONS	_____	_____
RF	_____	_____
NETWORK	_____	_____
BACKHAUL	_____	_____
CONSTRUCTION MANAGER	_____	_____

THE PARTIES ABOVE HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND ANY CHANGES AND MODIFICATIONS THEY MAY IMPOSE.



MTS ENGINEERING P.L.L.C.  
BER:2386985  
Expires 3/31/23

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**SHEET NUMBER:**

**T-1**

**REVISION:**

**0**



CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

- 1. NOTICE TO PROCEED- NO WORK SHALL COMMENCE PRIOR TO CROWN CASTLE USA INC. WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER...
2. "LOOK UP" - CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT: THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION...
3. PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED...
4. ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR...
5. ALL SITE WORK TO COMPLY WITH OAS-STD-10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE"...
6. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY CROWN CASTLE USA INC...
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES...
8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS...
9. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION...
10. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR...
11. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS, LATEST APPROVED REVISION...
12. CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK...
13. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK...
14. THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS...
15. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS...
16. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION...
17. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS...
18. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION...
19. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES...
20. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY...
21. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION...
22. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND...

GREENFIELD GROUNDING NOTES:

- 1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC...
2. THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS...
3. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM...
4. METAL CONDUIT AND TRAY SHALL BE GROUNDING AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS...
5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR...
6. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES...
7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED...
8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED...
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS...
10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED...
11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE...
12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS...
13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS...
14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR...
15. APPROVED ANTI-OXIDANT COATINGS (I.E. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS...
16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL...
17. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC...
18. BOND ALL METALLIC OBJECTS WITHIN 6 FT OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR...
19. GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR...
20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN 3/4" NON-METALLIC, FLEXIBLE CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT...
21. BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING...

GENERAL NOTES:

- 1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY: CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION CARRIER: T-MOBILE TOWER OWNER: CROWN CASTLE USA INC.
2. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES...
3. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION...
4. NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS...
5. SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS...
6. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS...
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES...
8. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS...
9. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS...
10. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL...
11. CONTRACTOR IS TO PERFORM A SITE INVESTIGATION AND IS TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELCO AND FOR GROUNDING CABLES...
12. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES...
13. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY...
14. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION...

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

- 1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE...
2. UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf...
3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE...
4. CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES...
5. ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WFF) SHALL CONFORM TO ASTM A185...
6. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS: CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH...
7. A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE...

ELECTRICAL INSTALLATION NOTES:

- 1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES...
2. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED...
3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC...
4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC...
5. EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE...
6. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE...
7. PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS...
8. ALL THE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES...
9. ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR...
10. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR...
11. POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI-CONDUCTOR...
12. POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI-CONDUCTOR...
13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE...
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE...
15. ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS...
16. ELECTRICAL METALLIC TUBING (EMT) OR METAL-CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS...
17. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s...
18. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS...
19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE...
20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE...
21. WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER...
22. SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER...
23. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS...
24. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL...
25. METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING...
26. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2...
27. THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR CROWN CASTLE USA INC...
28. THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS...
29. INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "T-MOBILE"...
30. ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

Table with columns: SYSTEM, CONDUCTOR, COLOR. Rows include 120/240V, 10; 120/208V, 30; 277/480V, 30; DC VOLTAGE.

APWA UNIFORM COLOR CODE:

- WHITE PROPOSED EXCAVATION
PINK TEMPORARY SURVEY MARKINGS
RED ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES
YELLOW GAS, OIL, STEAM, PETROLEUM, OR GASEOUS MATERIALS
ORANGE COMMUNICATION, ALARM OR SIGNAL LINES, CABLES, OR CONDUIT AND TRAFFIC LOOPS
BLUE POTABLE WATER
PURPLE RECLAIMED WATER, IRRIGATION, AND SLURRY LINES
GREEN SEWERS AND DRAIN LINES

ABBREVIATIONS:

- ANT ANTENNA
(E) EXISTING
FIF FACILITY INTERFACE FRAME
GEN GENERATOR
GPS GLOBAL POSITIONING SYSTEM
GSM GLOBAL SYSTEM FOR MOBILE
LTE LONG TERM EVOLUTION
MGB MASTER GROUND BAR
MW MICROWAVE
(N) NEW
NEC NATIONAL ELECTRIC CODE
(P) PROPOSED
PP POWER PLANT
QTY QUANTITY
RECT RECTIFIER
RBS RADIO BASE STATION
RET REMOTE ELECTRIC TILT
RFDS RADIO FREQUENCY DATA SHEET
RRH REMOTE RADIO HEAD
RRU REMOTE RADIO UNIT
SIAD SMART INTEGRATED DEVICE
TMA TOWER MOUNTED AMPLIFIER
TYP TYPICAL
UMTS UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM
W.P. WORK POINT



T-MOBILE SITE NUMBER: CTNH518A

BU #: 876362 OXFORD / FRITZ PROPERTY 338 OXFORD RD OXFORD, CT 06478

EXISTING 150'-0" MONOPOLE

Table with columns: REV, DATE, DRWN, DESCRIPTION, DES./QA. Rows include 0 8/12/22 DAS CONSTRUCTION MTJ

ISSUED FOR:



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SHEET NUMBER: T-2 REVISION: 0

137094.004.01\_OXFORD\_FRITZ\_PROPERTY.dwg - Sheet1-2 - User: deshnum.smith - Aug. 12, 2022 - 11:10am



**SITE PLAN DISCLAIMER:**  
 PROPERTY LINES AND STRUCTURES HAVE BEEN DIGITIZED FROM PREVIOUS PLAN SETS. CROWN CASTLE USA INC. HAS NOT COMPLETED A SITE SURVEY AND THEREFORE MAKES NO CLAIMS AS TO THE ACCURACY OF INFORMATION DEPICTED ON THIS SHEET.



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**CROWN CASTLE**  
 3530 TORINGDON WAY, SUITE 300  
 CHARLOTTE, NC 28277

**B+T GRP**  
 1717 S. BOULDER  
 SUITE 300  
 TULSA, OK 74119  
 PH: (918) 587-4630  
 www.btgrp.com

**T-MOBILE SITE NUMBER:**  
**CTNH518A**

**BU #: 876362**  
**OXFORD / FRITZ**  
**PROPERTY**

338 OXFORD RD  
 OXFORD, CT 06478

EXISTING  
 150'-0" MONOPOLE

**ISSUED FOR:**

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A	7/14/22	MEH	PRELIMINARY REVIEW	MTJ
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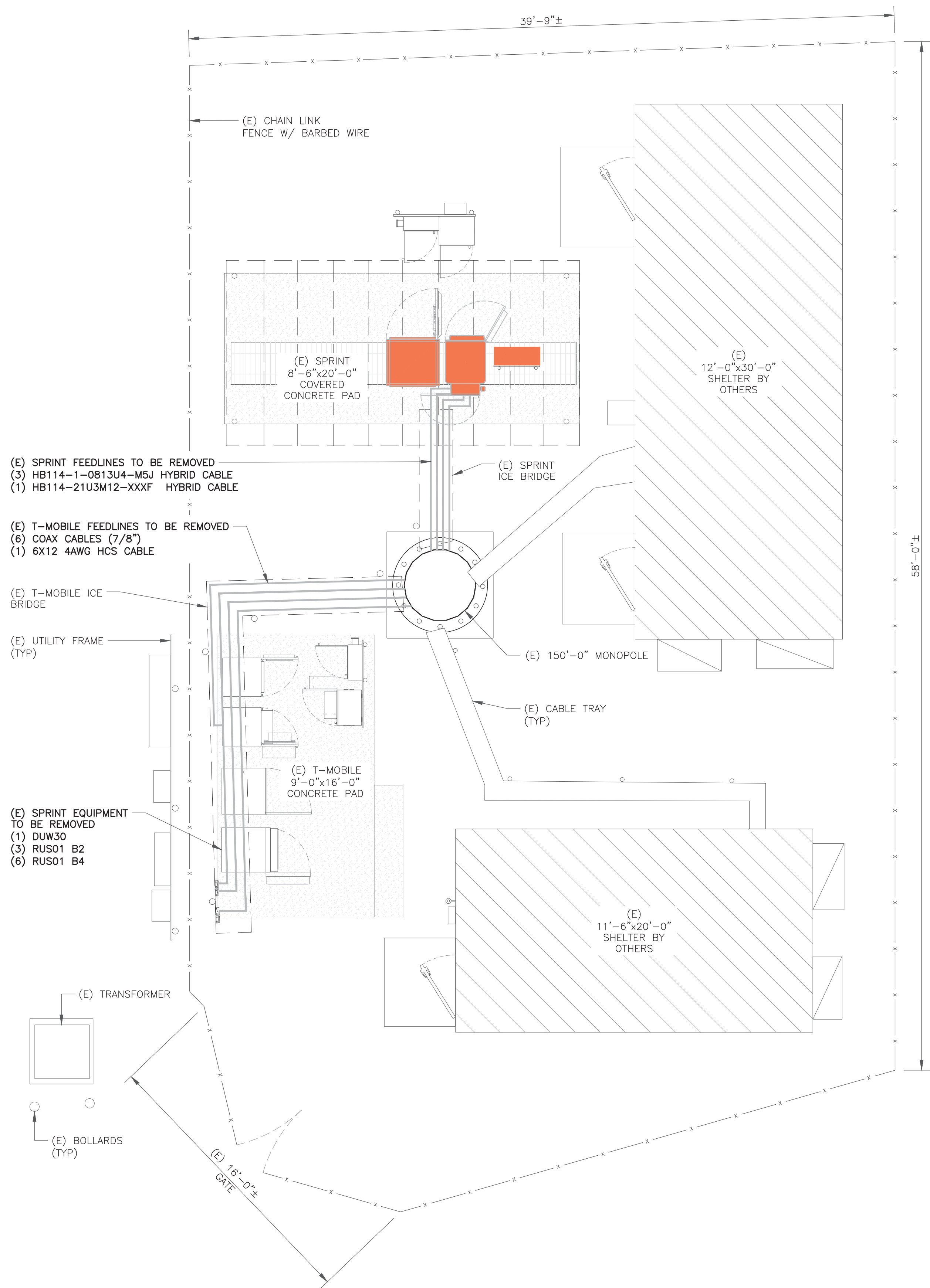
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**0**

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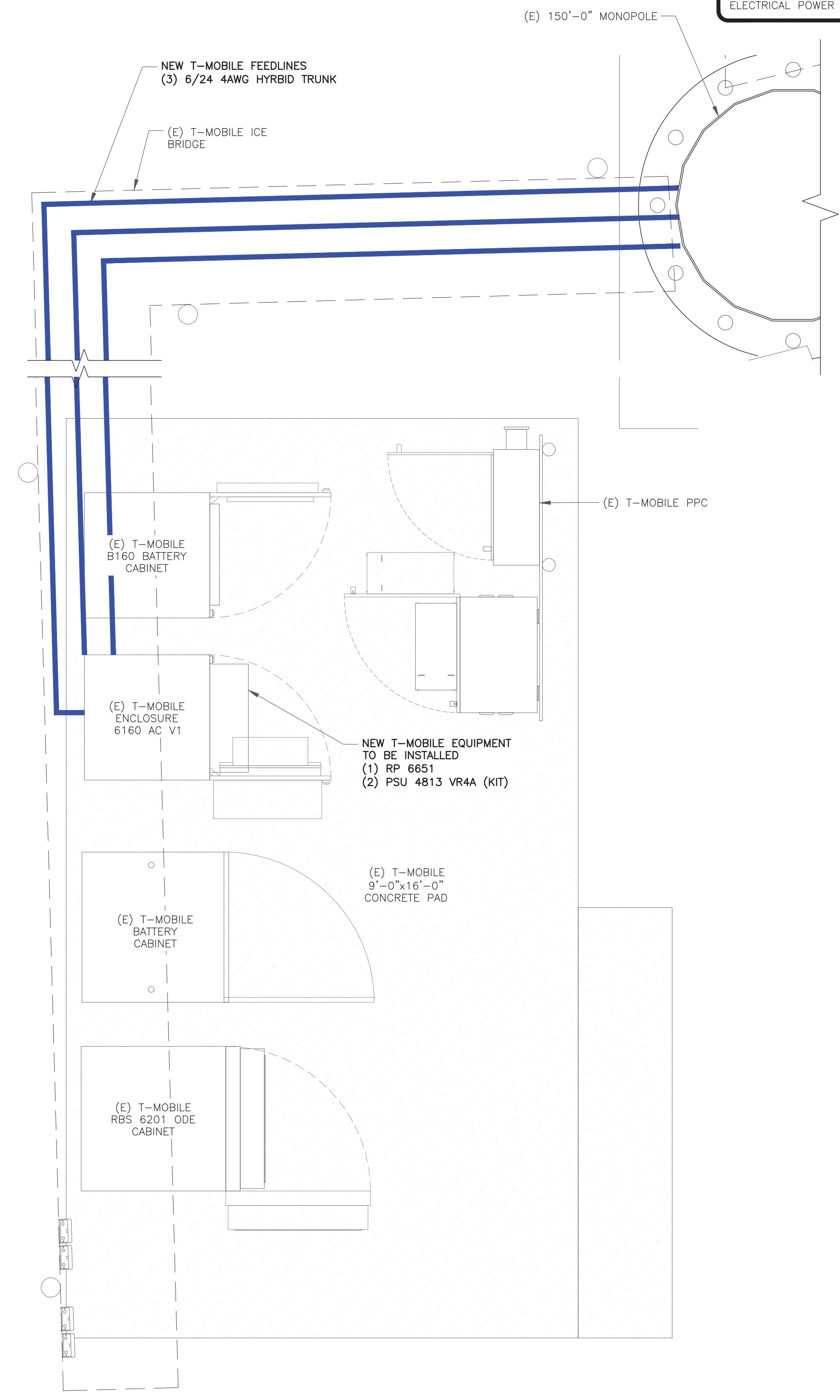
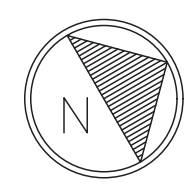
**1** OVERALL SITE PLAN  
 SCALE: 1"=40'-0" (FULL SIZE)  
 1"=80'-0" (11x17)



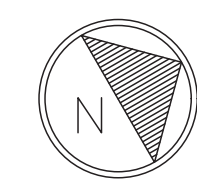
1:37:09.4.004.01\_oxford\_fritz\_property.dwg - Sheet: C-1.2 - User: deshaun.smith - Aug. 12, 2022 - 11:10am



**1 SITE PLAN**  
 SCALE: 1/4"=1'-0" (FULL SIZE)  
 1/8"=1'-0" (11x17)



**2 ENLARGED SITE PLAN**  
 SCALE: 3/4"=1'-0" (FULL SIZE)  
 3/8"=1'-0" (11x17)



**NOTES:**  
 THE POWER DESIGN FOR ANY AC ELECTRICAL POWER CHANGES IS TO BE PERFORMED BY OTHERS AND IS SHOWN HERE FOR REFERENCE PURPOSES ONLY. T-MOBILE IS SOLELY RESPONSIBLE FOR THE ELECTRICAL POWER DESIGN.

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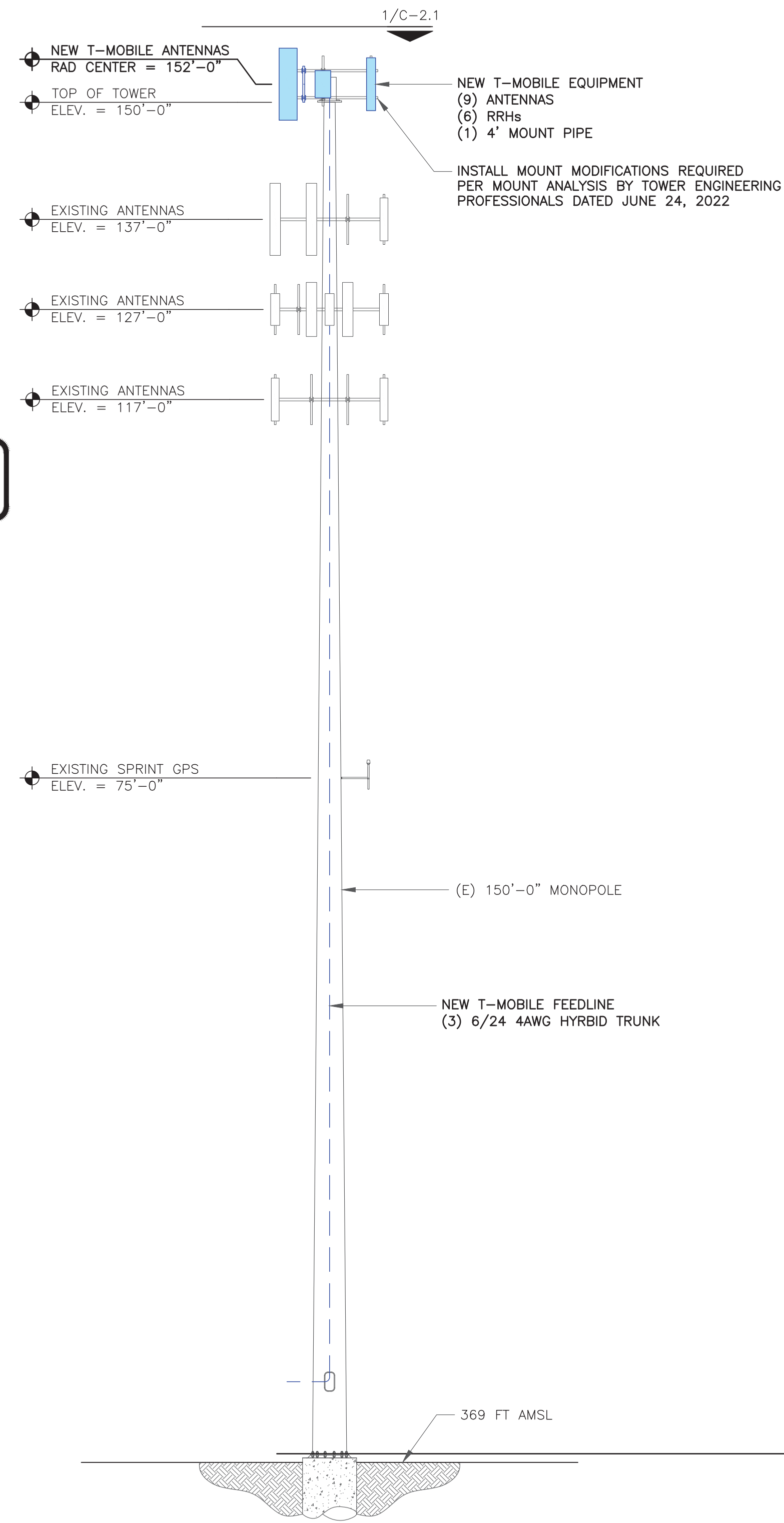
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**REVISION:**  
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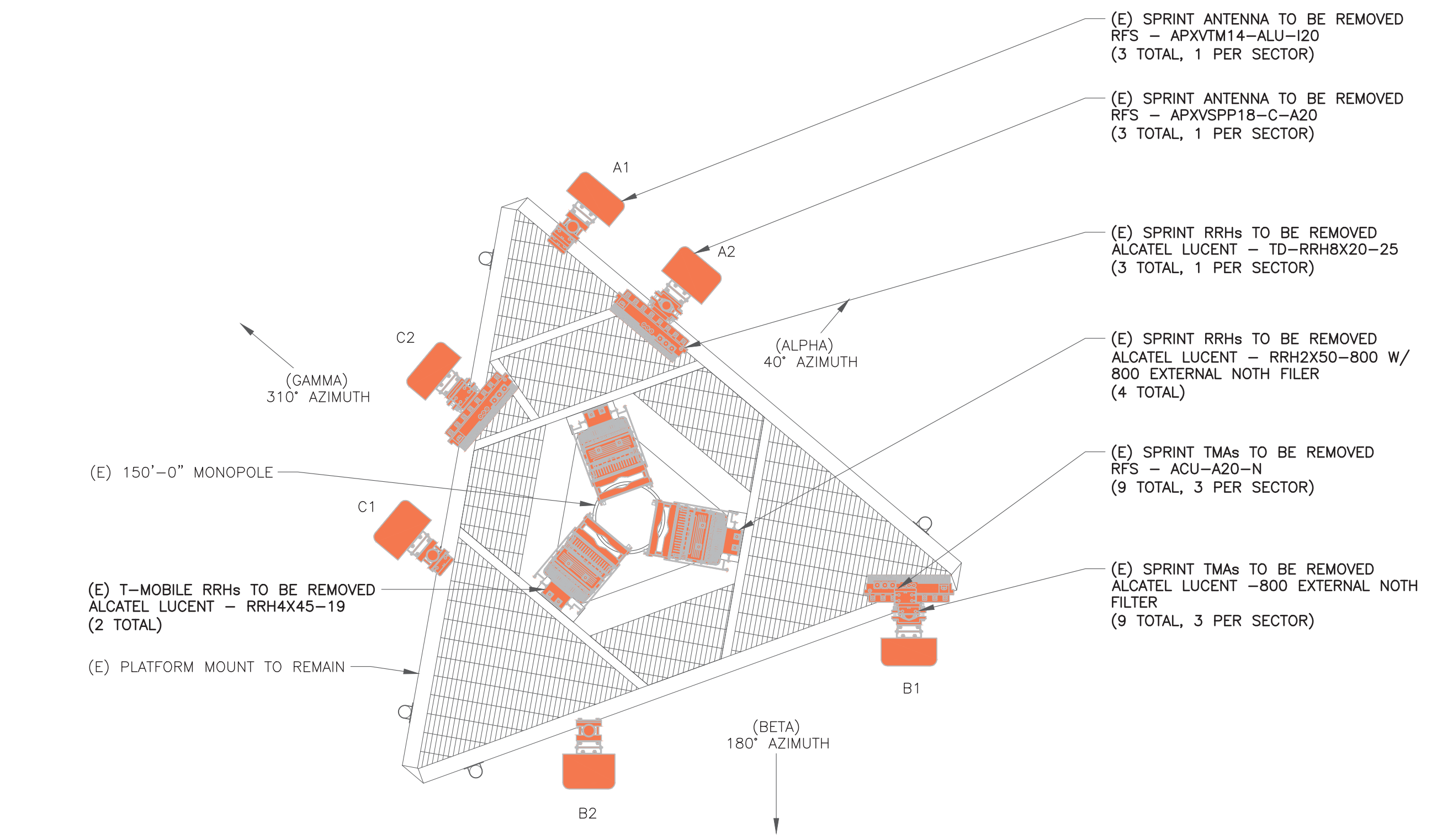




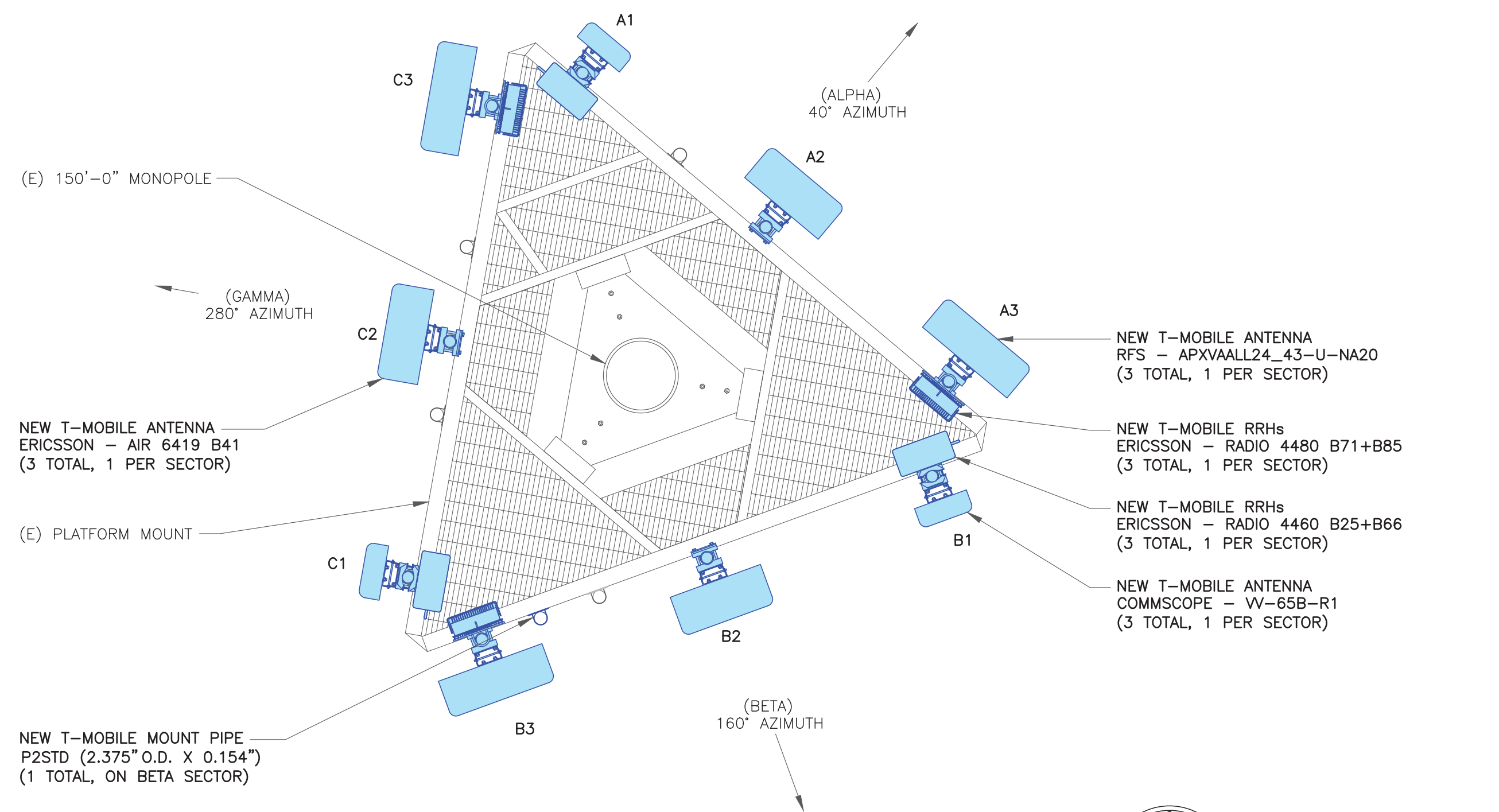
1 FINAL ELEVATION  
SCALE: NOT TO SCALE

**T-MOBILE EQUIPMENT**  
ANTENNA CL: 152'-0"  
MOUNT CL: 152'-0"

ANY AND ALL TOWER  
MOUNTED EQUIPMENT MUST  
NOT TRAP OR INTERFERE W/  
EXISTING SAFETY CLIMB



2 EXISTING ANTENNA LAYOUT AT 152'-0"  
SCALE: NOT TO SCALE



3 FINAL ANTENNA LAYOUT AT 152'-0"  
SCALE: NOT TO SCALE

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SHEET NUMBER: **C-2** REVISION: **0**

1:37094.004.01\_OXFORD\_FRITZ\_PROPERTY.dwg - Sheet: C-2 - User: deshaun.smith - Aug 12, 2022 - 11:10am



T-MOBILE SITE NUMBER:  
**CTNH518A**

BU #: **876362**  
**OXFORD / FRITZ**  
**PROPERTY**

338 OXFORD RD  
OXFORD, CT 06478

EXISTING  
150'-0" MONOPOLE

**ISSUED FOR:**

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	7/14/22	MEH	PRELIMINARY REVIEW	MTJ
0	8/12/22	DAS	CONSTRUCTION	MTJ



MTS ENGINEERING P.L.L.C.  
BER:2386985  
Expires 3/31/23

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SHEET NUMBER:

**C-3**

REVISION:

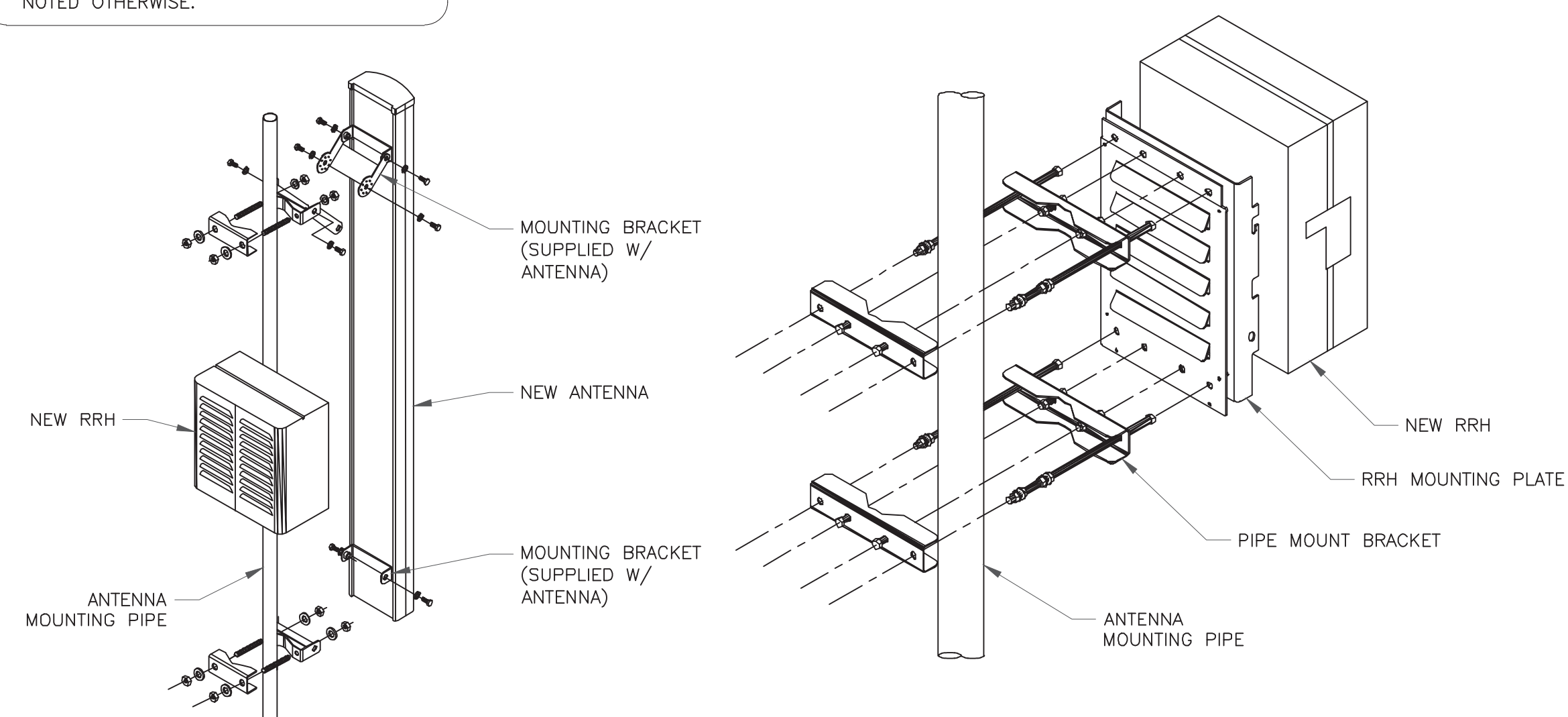
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RF SYSTEM SCHEDULE										
SECTOR	ANTENNA	TECH	MANUFACTURER	ANTENNA MODEL	AZIMUTH	M-TILT	E-TILT	RAD CENTER	TMA/RRU	FEEDLINE TYPE
ALPHA	A1	L2100/L1900	COMMSCOPE	W-65B-R1	40°	0°	-	152'-0"	RADIO 4460 B25+B66	-
	A2	L2500/N2500	ERICSSON	AIR 6419 B41	40°	0°	-	152'-0"	-	(1) 1 5/8" HYBRID
	A3	L700/L600/N600	RFS	APXVAALL24_43-U-NA20	40°	0°	-	152'-0"	RADIO 4480 B71+B85	-
BETA	B1	L2100/L1900	COMMSCOPE	W-65B-R1	160°	0°	-	152'-0"	RADIO 4460 B25+B66	-
	B2	L2500/N2500	ERICSSON	AIR 6419 B41	160°	0°	-	152'-0"	-	(1) 1 5/8" HYBRID
	B3	L700/L600/N600	RFS	APXVAALL24_43-U-NA20	160°	0°	-	152'-0"	RADIO 4480 B71+B85	-
GAMMA	C1	L2100/L1900	COMMSCOPE	W-65B-R1	280°	0°	-	152'-0"	RADIO 4460 B25+B66	-
	C2	L2500/N2500	ERICSSON	AIR 6419 B41	280°	0°	-	152'-0"	-	(1) 1 5/8" HYBRID
	C3	L700/L600/N600	RFS	APXVAALL24_43-U-NA20	280°	0°	-	152'-0"	RADIO 4480 B71+B85	-

**1** ANTENNA AND CABLE SCHEDULE  
SCALE: NOT TO SCALE

**INSTALLER NOTES:**

1. COMPLY WITH MANUFACTURERS INSTRUCTIONS TO ENSURE THAT ALL RRHs RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING.
2. DO NOT OPEN RRH PACKAGES IN THE RAIN.
3. ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.



**2** ANTENNA WITH RRH MOUNTING DETAIL  
SCALE: NOT TO SCALE

T-Mobile

4 SYLVAN WAY  
PARSIPPANY, NJ 07054

CROWN CASTLE

3530 TORINGDON WAY, SUITE 300  
CHARLOTTE, NC 28277

B+T GRP

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SUITE 300  
TULSA, OK 74119  
PH: (918) 587-4630  
www.btgrp.com

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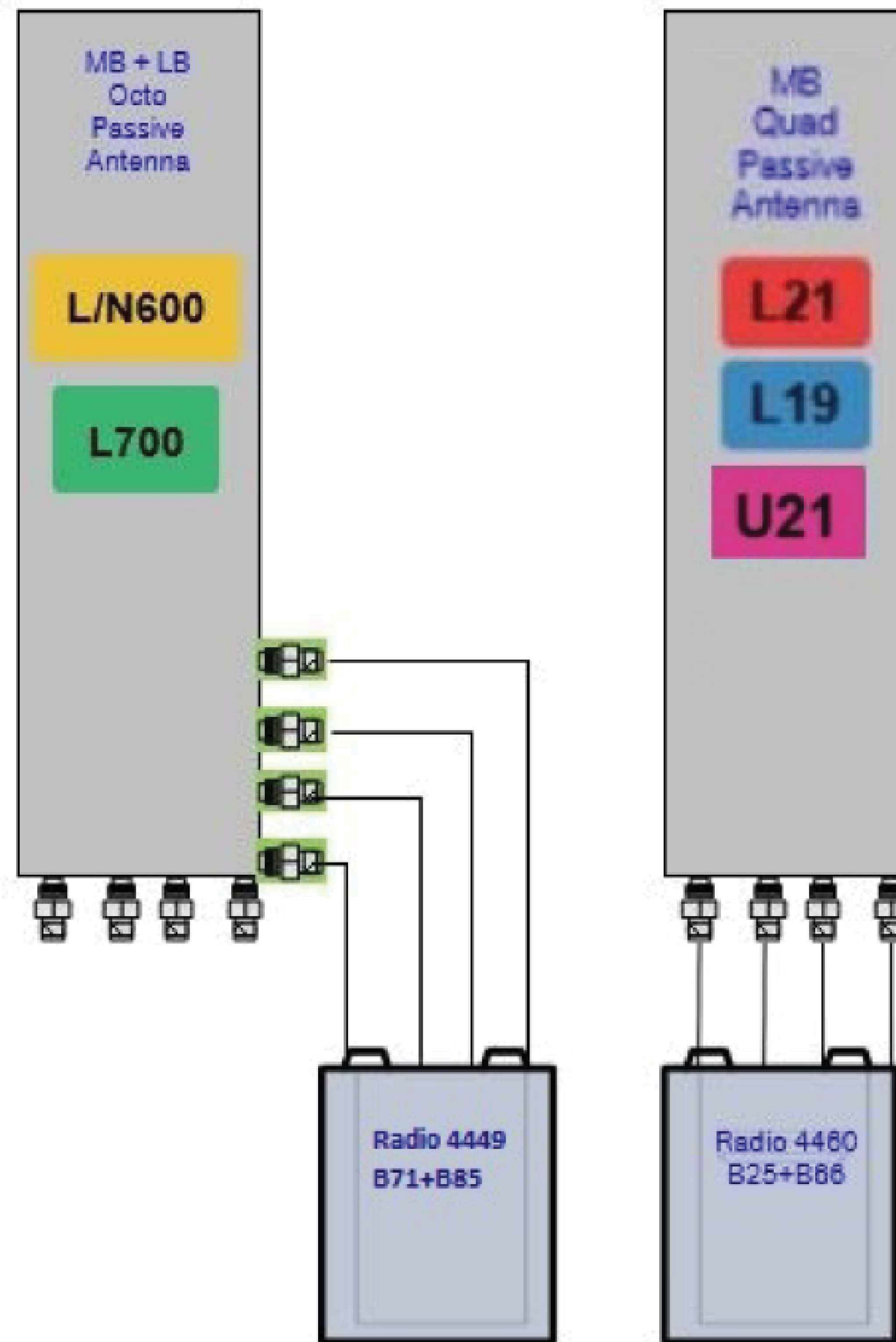
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C-4

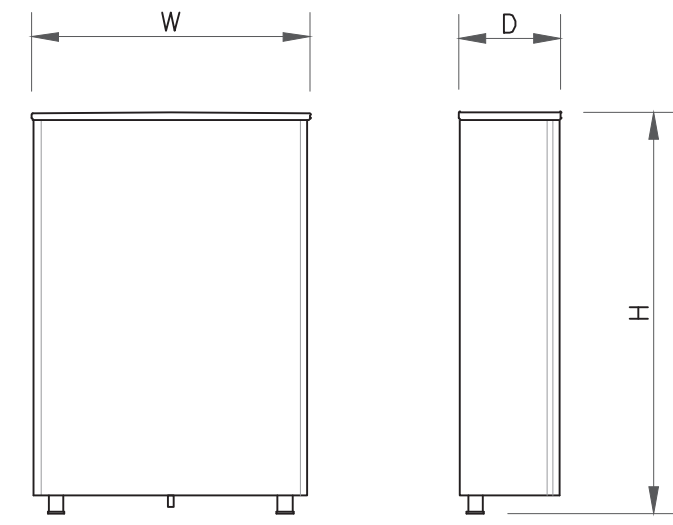
REVISION:

0



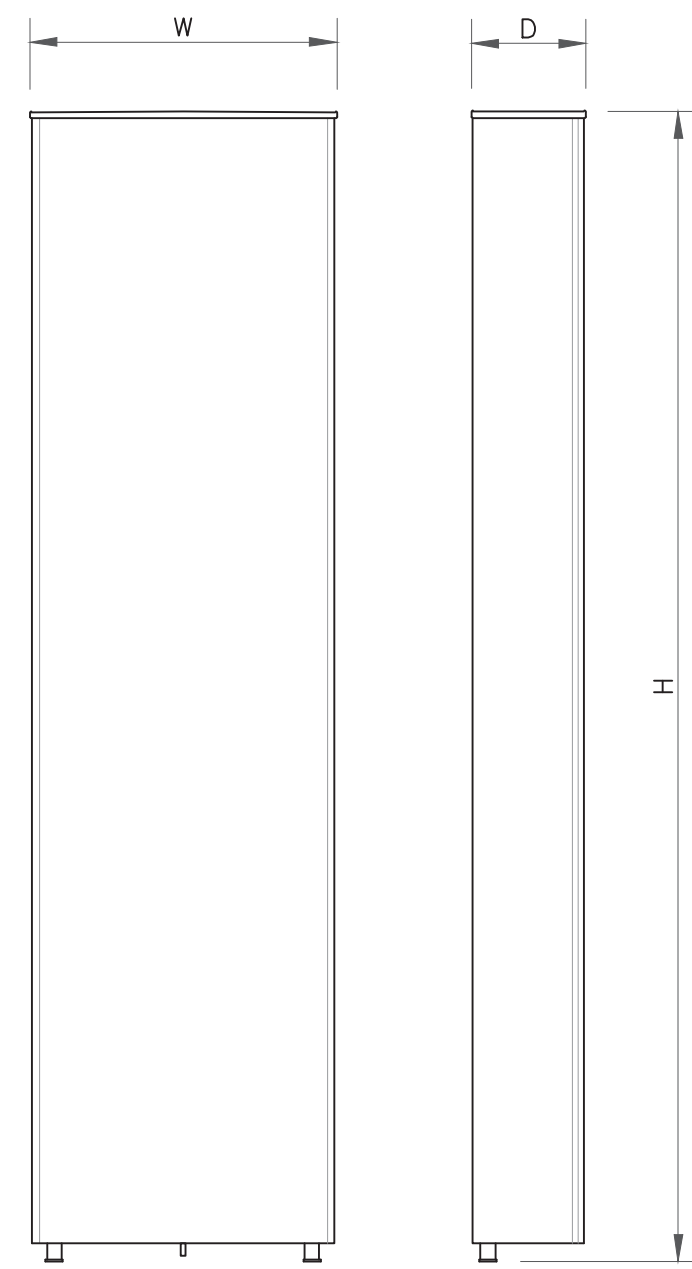
1 PLUMBING DIAGRAM  
SCALE: NOT TO SCALE





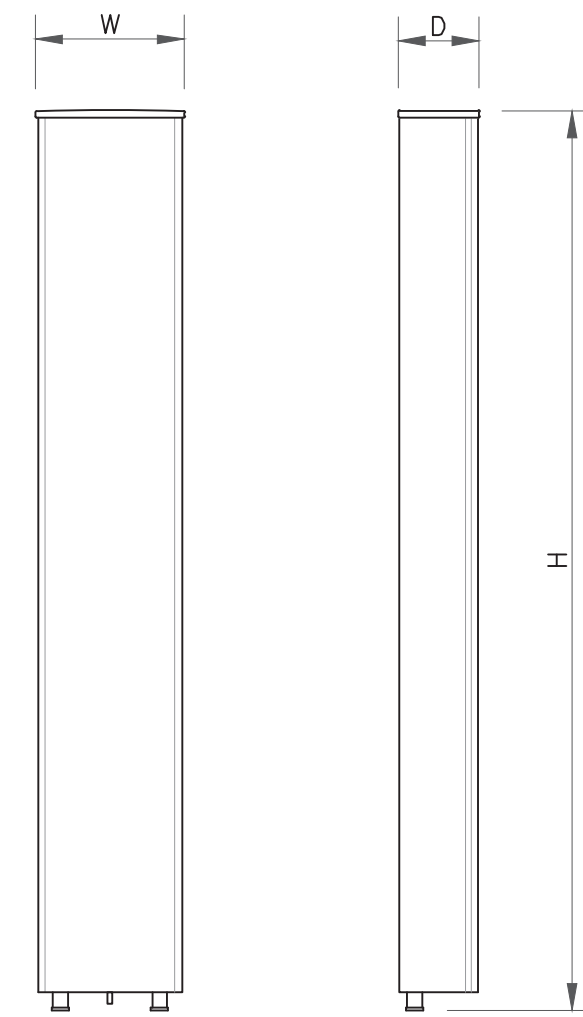
ANTENNA SPECS	
MANUFACTURER	ERICSSON
MODEL #	AIR 6419 B41
WIDTH	20.91"
DEPTH	9.02"
HEIGHT	36.25"
WEIGHT	96.50 LBS

1 ANTENNA SPECS  
SCALE: NOT TO SCALE



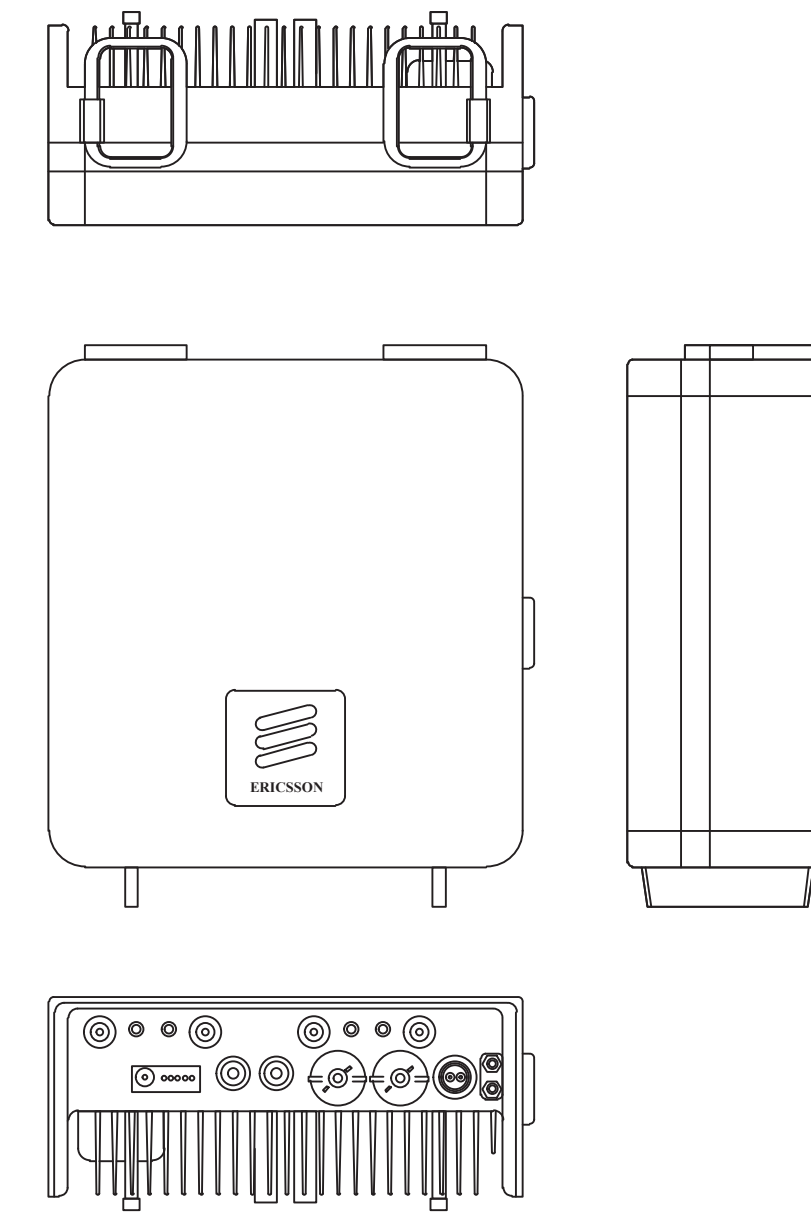
ANTENNA SPECS	
MANUFACTURER	RFS
MODEL #	APXVAALL24_43-U-NA20
WIDTH	24.0"
DEPTH	8.50"
HEIGHT	95.90"
WEIGHT	149.90 LBS

2 ANTENNA SPECS  
SCALE: NOT TO SCALE



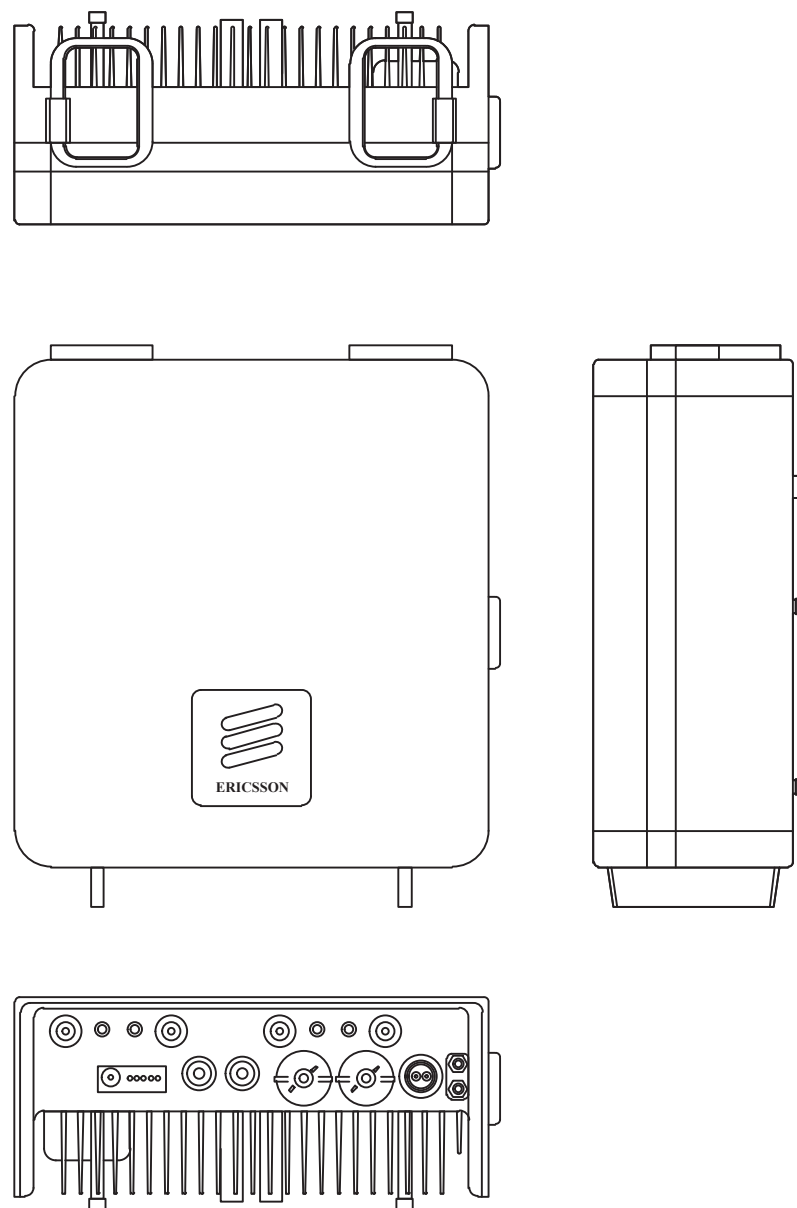
ANTENNA SPECS	
MANUFACTURER	COMMSCOPE
MODEL #	VV-65B-R1
WIDTH	12.01"
DEPTH	4.65"
HEIGHT	70.35"
WEIGHT	41.67 LBS

3 ANTENNA SPECS  
SCALE: NOT TO SCALE



RRU SPECIFICATIONS	
MANUFACTURER	ERICSSON
MODEL #	4480 B71+B85
WIDTH	15.70"
DEPTH	7.50"
HEIGHT	22.0"
WEIGHT	81.0 LBS

4 RRU SPECS  
SCALE: NOT TO SCALE



RRU SPECIFICATIONS	
MANUFACTURER	ERICSSON
MODEL #	4460 B25+B66
WIDTH	15.10"
DEPTH	11.90"
HEIGHT	17.0"
WEIGHT	109.0 LBS

5 RRU SPECS  
SCALE: NOT TO SCALE

6 NOT USED  
SCALE: NOT TO SCALE

7 NOT USED  
SCALE: NOT TO SCALE

8 NOT USED  
SCALE: NOT TO SCALE

**T-Mobile**  
4 SYLVAN WAY  
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**E-1**

REVISION:

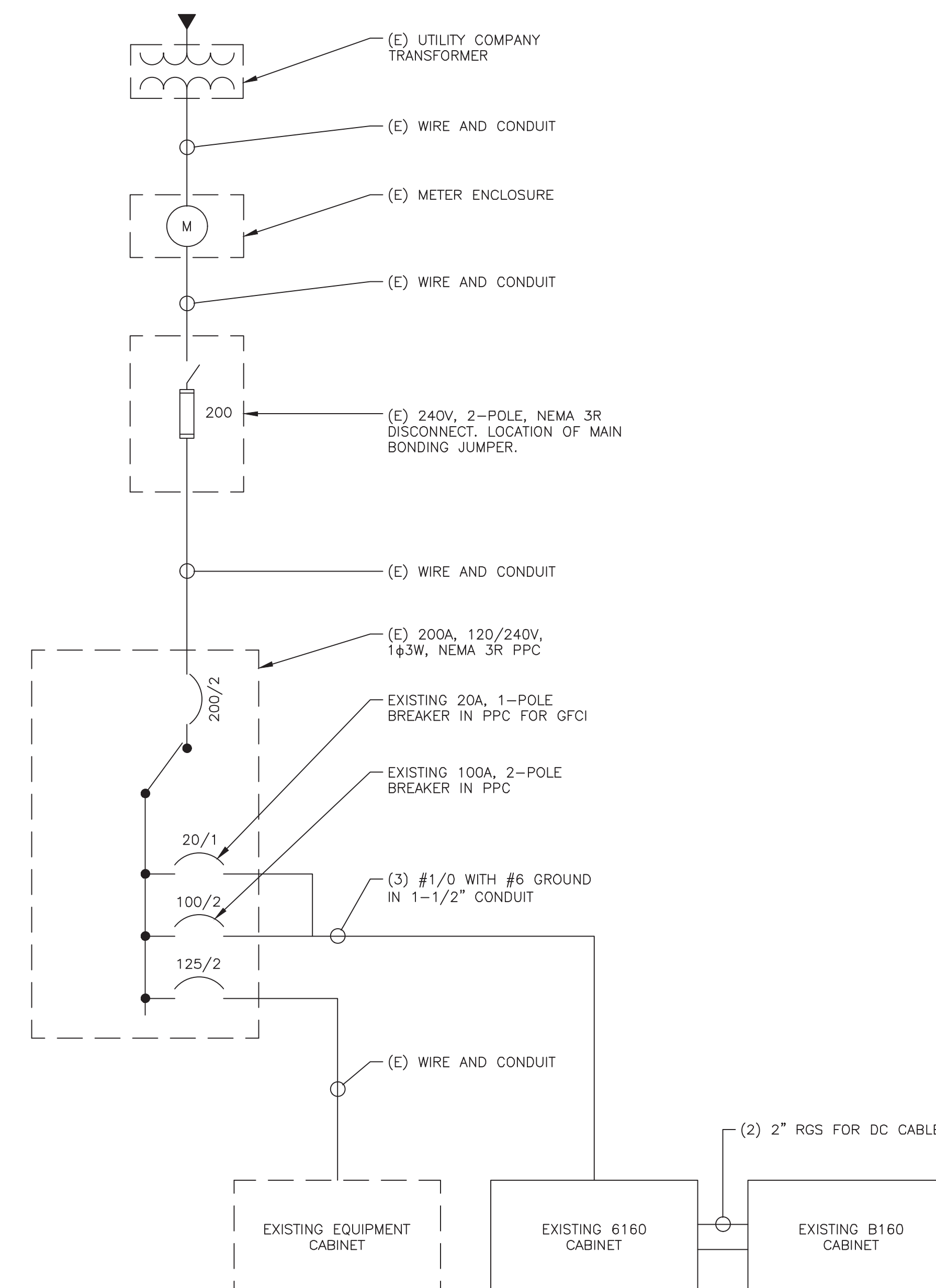
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NOTES:

1. ALL NEW CONDUCTORS TO BE INSTALLED SHALL BE COPPER. ALL CONDUCTORS SHALL BE THHW, THWN, THWN-2, XHHW, OR XHHW-2 UNLESS NOTED OTHERWISE.
2. CONTRACTOR IS TO FIELD VERIFY ALL EXISTING ITEMS SHOWN ON THE ELECTRICAL ONE-LINE DIAGRAM AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
3. ALL GROUNDING AND BONDING PER THE NEC.

FINAL PANEL SCHEDULE							
LOAD	POLES	AMPS	BUS		AMPS	POLES	LOAD
			L1	L2			
SURGE	2	30A	1	2	20A	1	LIGHT
			3	4	20A	1	FIBER
			5	6	100A	2	6160
BTS	2	60A	7	8			
			9	10	20A	1	GFCI
			11	12			
			13	14			
			15	16			
			17	18			
			19	20			
			21	22			
			23	24			

RATED VOLTAGE: <input checked="" type="checkbox"/> 120/240 <input type="checkbox"/> 1 PHASE, 3 WIRE	BRANCH POLES: <input type="checkbox"/> 12 <input checked="" type="checkbox"/> 24 <input type="checkbox"/> 30 <input type="checkbox"/> 42	APPROVED MFR'S
RATED AMPS: <input type="checkbox"/> 100 <input checked="" type="checkbox"/> 200 <input type="checkbox"/> 400 <input type="checkbox"/>	CABINET: <input type="checkbox"/> SURFACE <input type="checkbox"/> FLUSH	NEMA <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 3R <input type="checkbox"/> 4X
<input type="checkbox"/> MAIN LUGS ONLY <input type="checkbox"/> MAIN 200 AMPS <input checked="" type="checkbox"/> BREAKER <input type="checkbox"/> FUSED SWITCH	<input type="checkbox"/> HINGED DOOR	<input checked="" type="checkbox"/> KEYED DOOR LATCH
<input type="checkbox"/> FUSED <input checked="" type="checkbox"/> CIRCUIT BREAKER <input type="checkbox"/> BRANCH DEVICES	<input type="checkbox"/> TO BE GFCI BREAKERS	FULL NEUTRAL BUS <input type="checkbox"/> GROUND BAR
ALL BREAKERS MUST BE RATED TO INTERRUPT A SHORT CIRCUIT ISC OF 10,000 AMPS SYMMETRICAL.		



1 FINAL T-MOBILE PANEL DETAIL  
SCALE: NOT TO SCALE

2 ONE LINE DIAGRAM  
SCALE: NOT TO SCALE

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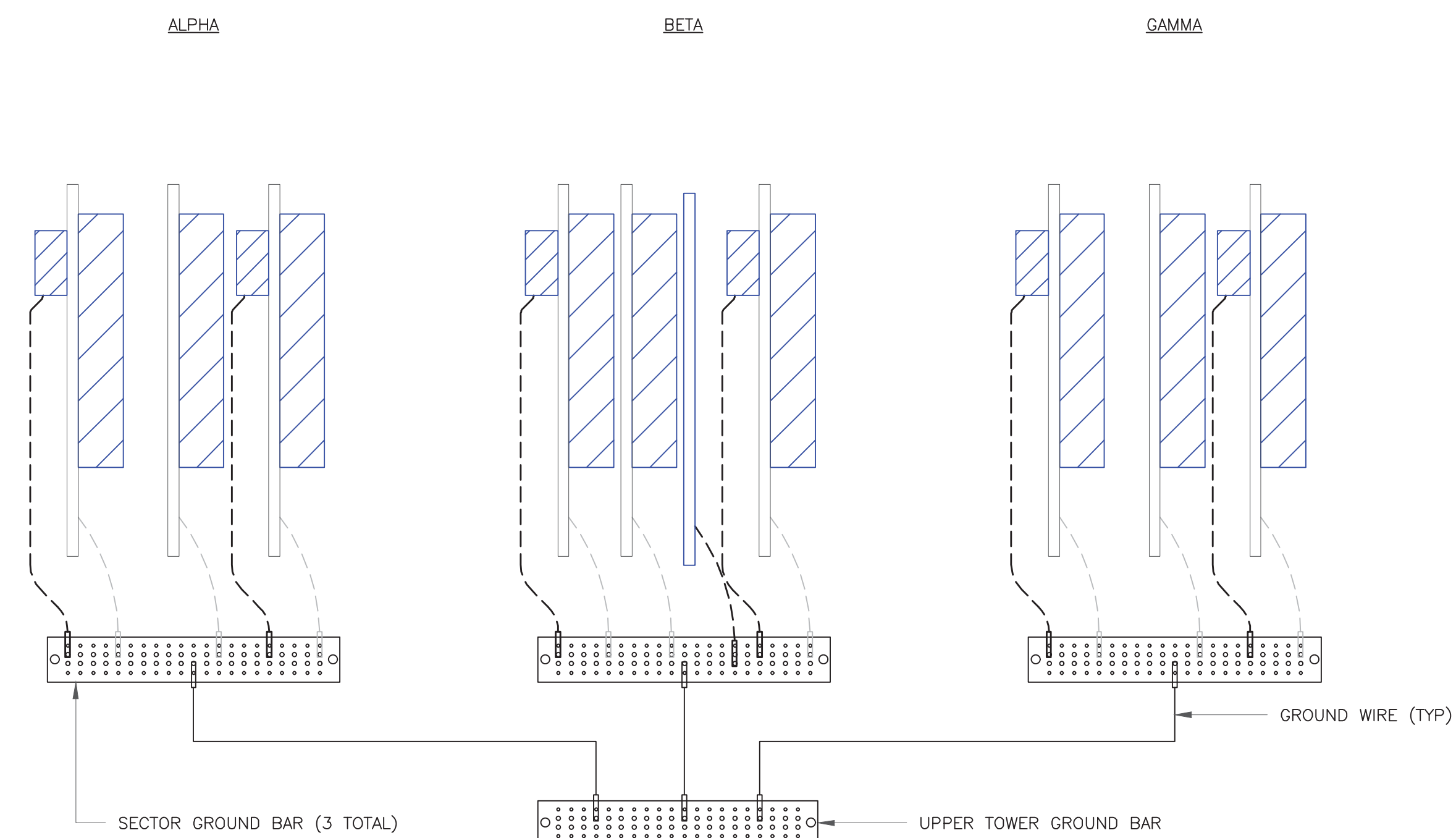
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NOTE:  
ALL NEW GROUNDS TO BE #6 STRANDED  
COPPER WITH GREEN INSULATION UNLESS  
NOTED OTHERWISE.

1 ANTENNA GROUNDING DIAGRAM  
SCALE: NOT TO SCALE



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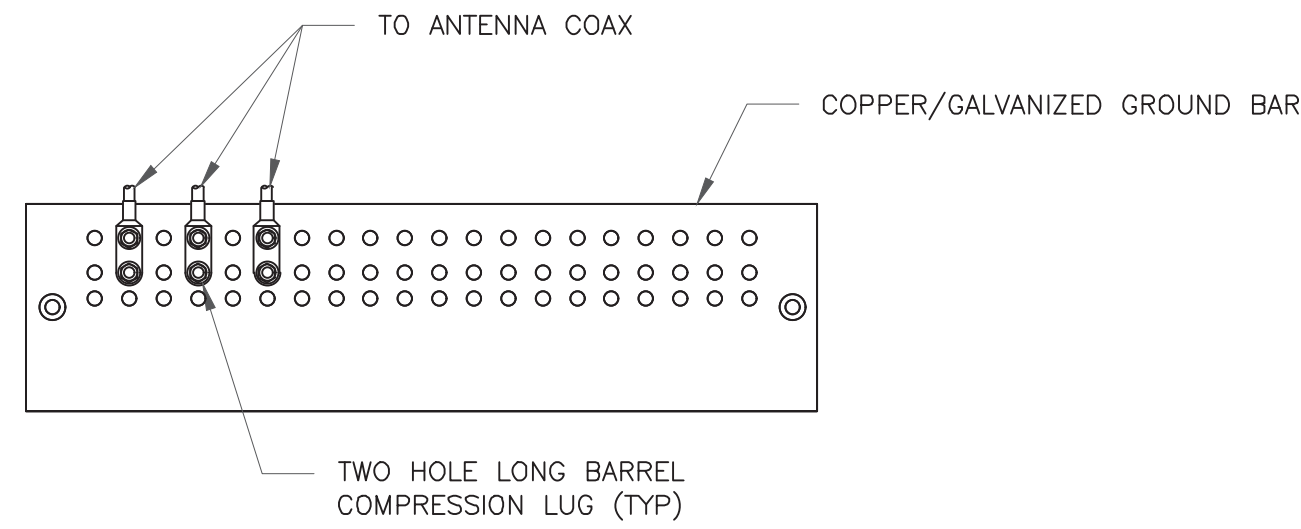
SHEET NUMBER:

G-1

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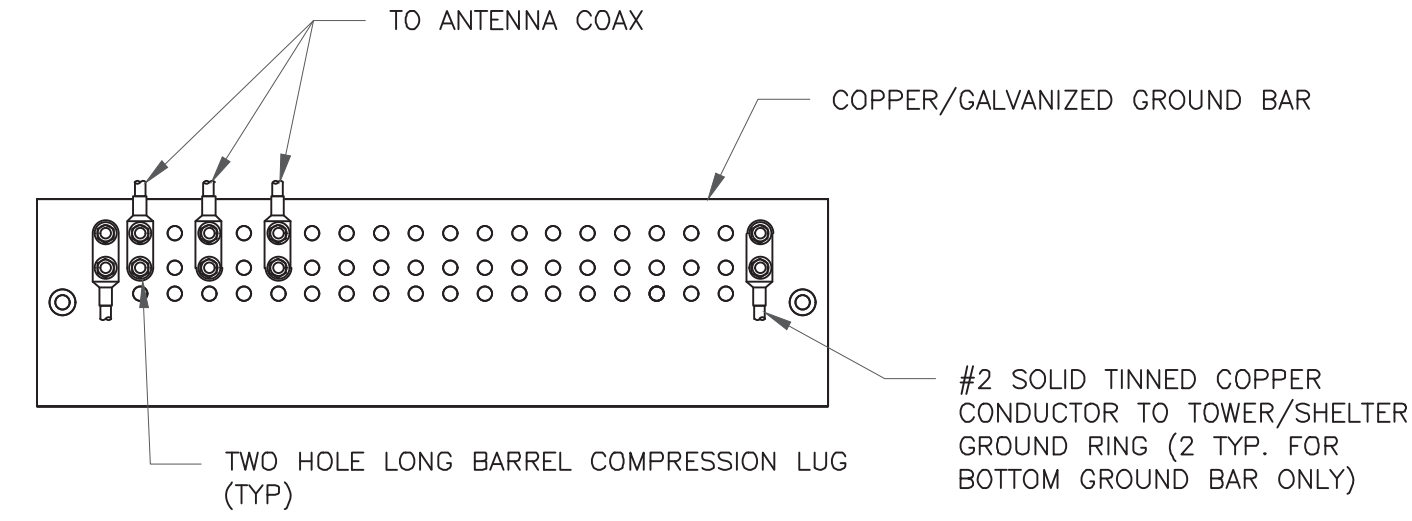




NOTES:

1. DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
2. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
3. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO ANTENNA MOUNT STEEL.

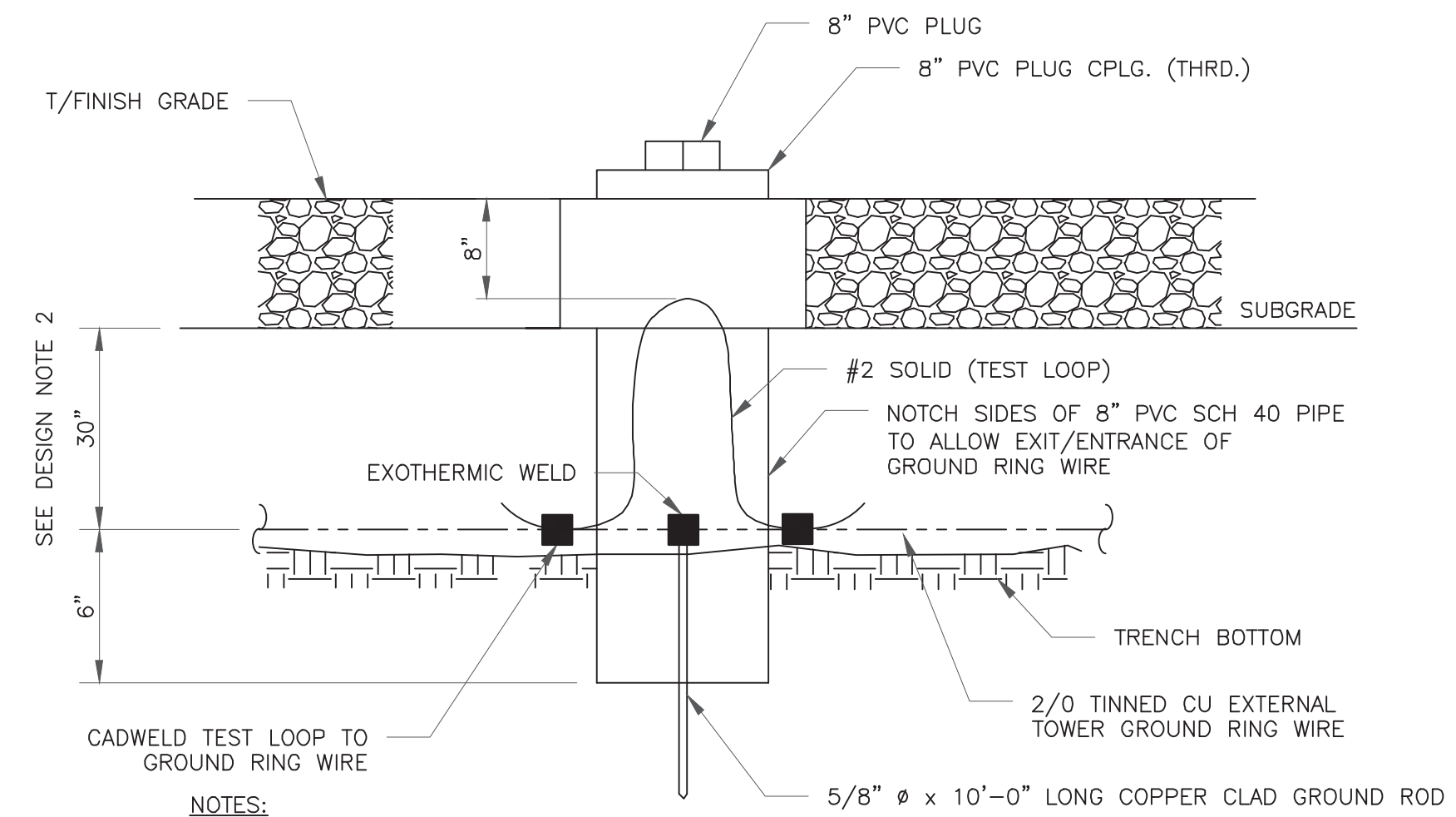
1 ANTENNA SECTOR GROUND BAR DETAIL  
SCALE: NOT TO SCALE



NOTES:

1. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
2. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
3. GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

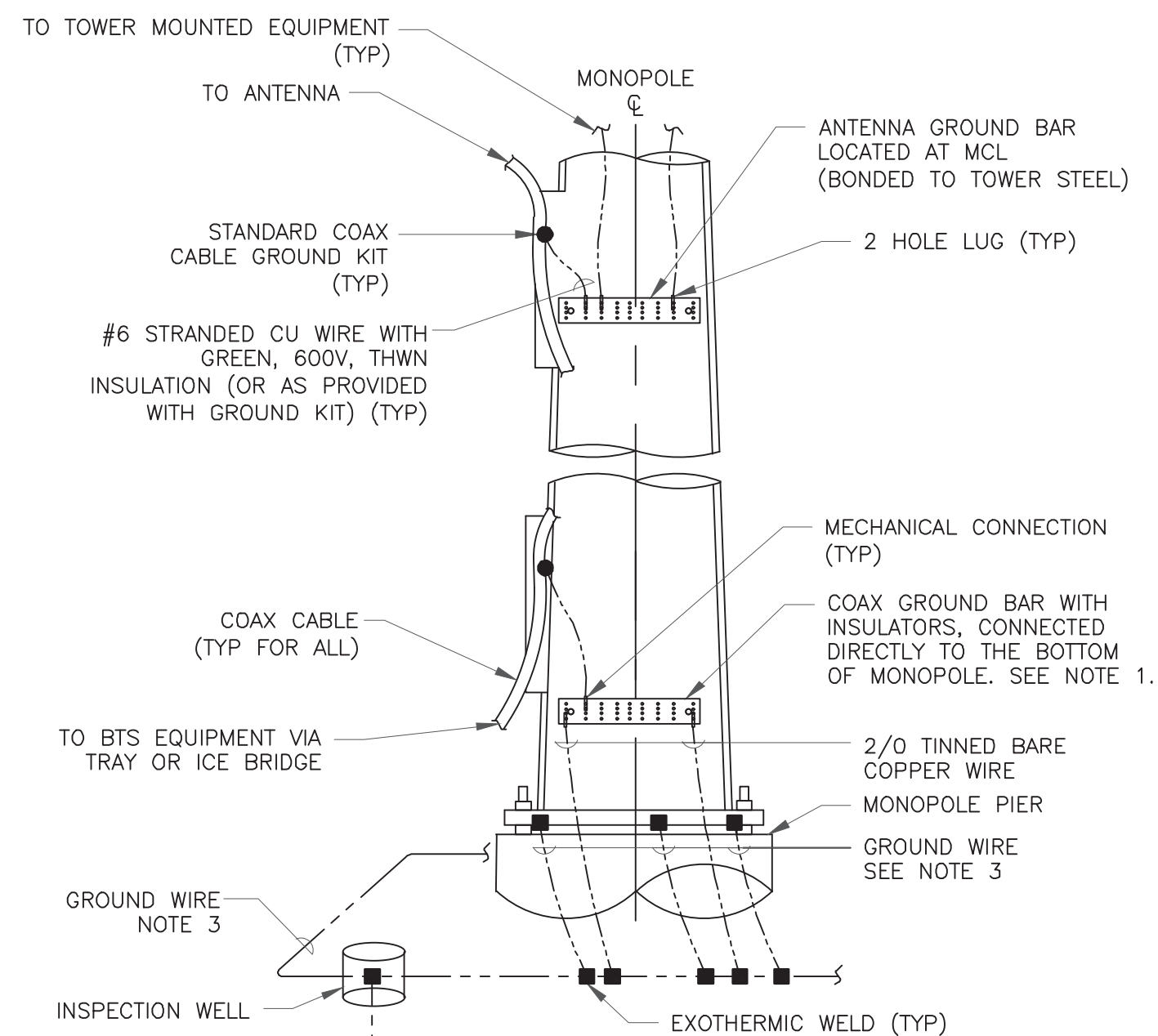
2 TOWER/SHELTER GROUND BAR DETAIL  
SCALE: NOT TO SCALE



NOTES:

1. GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL.
2. GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D).

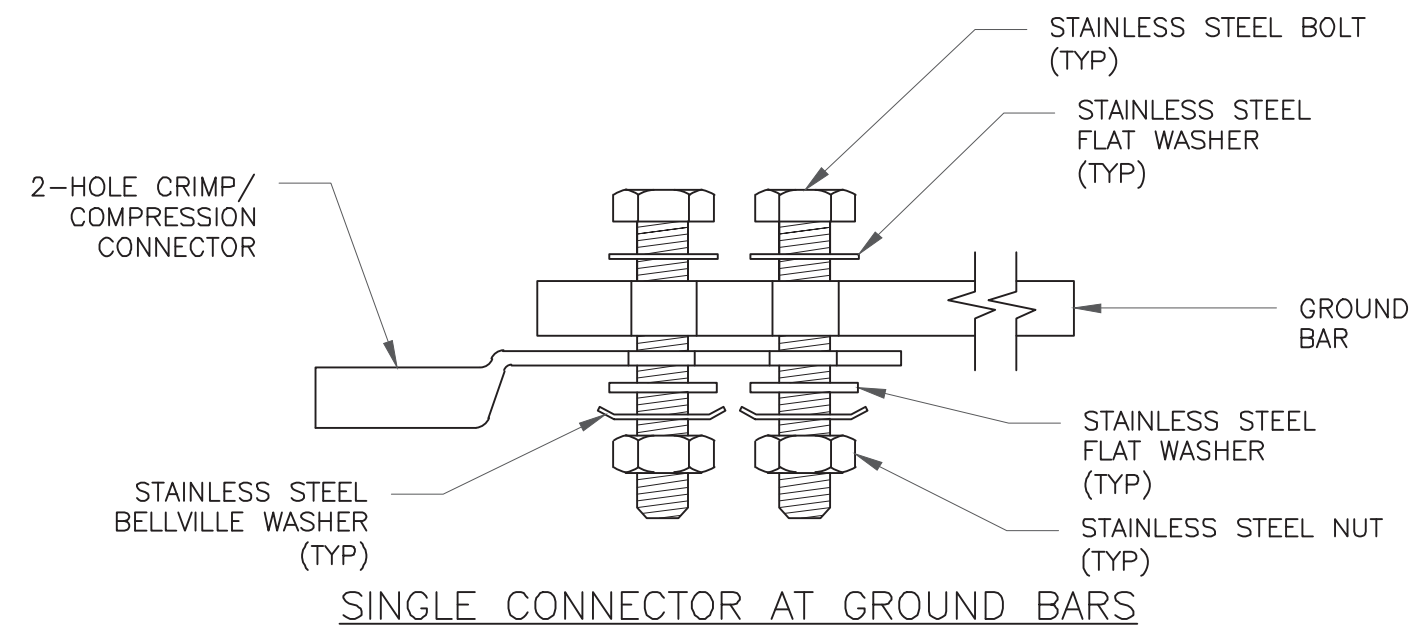
3 INSPECTION WELL DETAIL  
SCALE: NOT TO SCALE



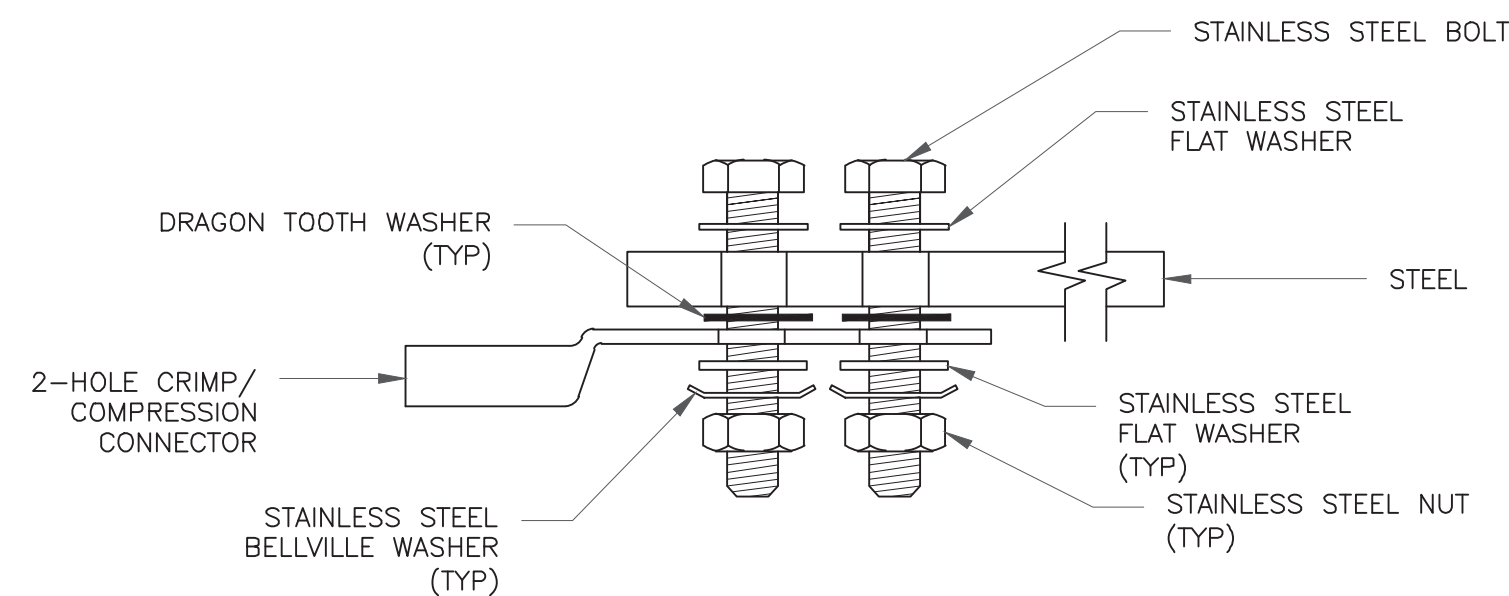
NOTES:

1. NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATIONS AND CONNECTION ORIENTATION. COAXIAL CABLES EXCEEDING 200 FEET ON THE TOWER SHALL HAVE GROUND KITS AT THE MIDPOINT. PROVIDE AS REQUIRED.
2. ONLY MECHANICAL CONNECTIONS ARE ALLOWED TO BE MADE TO CROWN CASTLE USA INC. TOWERS. ALL MECHANICAL CONNECTIONS SHALL BE TREATED WITH AN ANTI-OXIDANT COATING.
3. ALL TOWER GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF THE RECOGNIZED EDITION OF ANSI/TIA 222 AND NFPA 780.

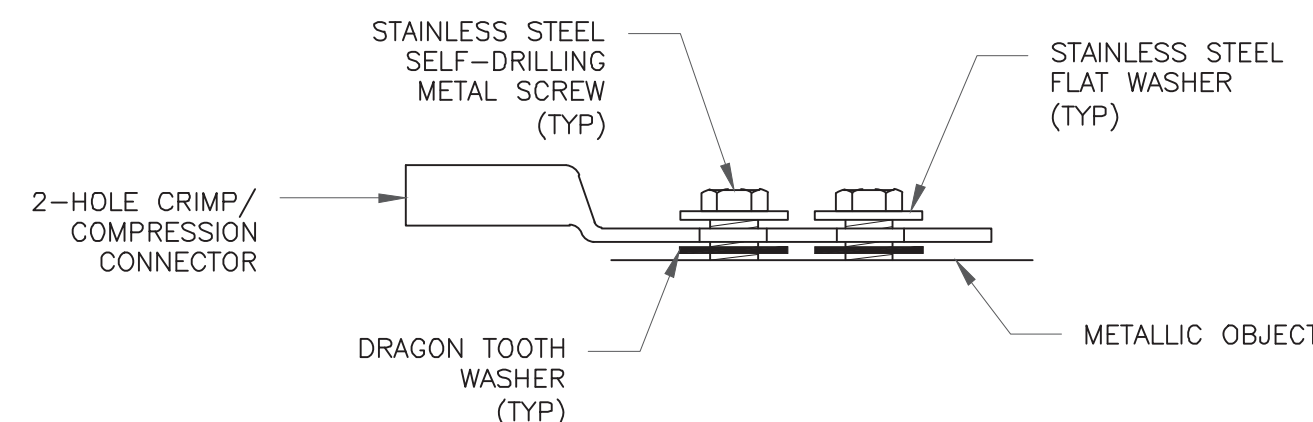
4 TYPICAL ANTENNA CABLE GROUNDING  
SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS

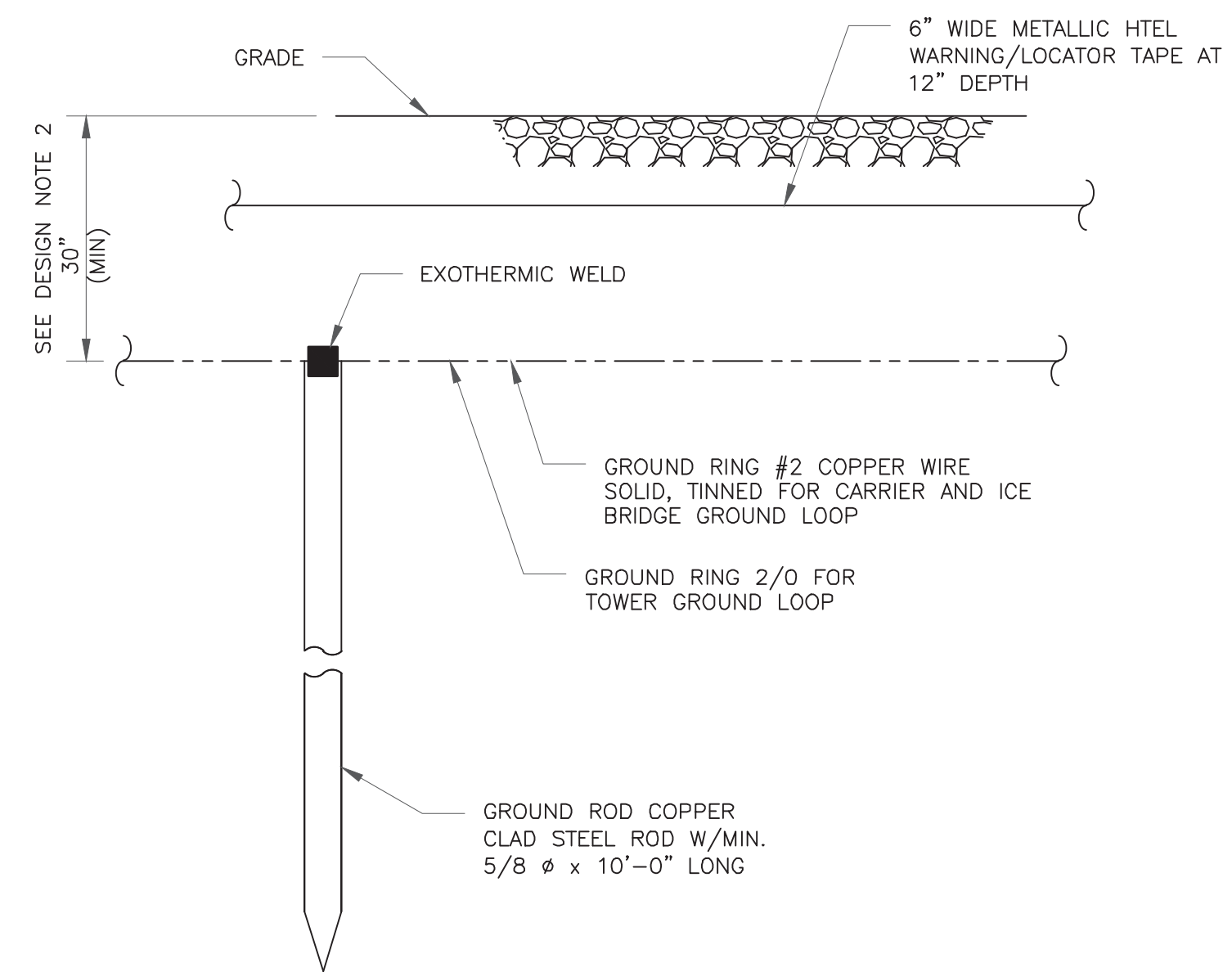


SINGLE CONNECTOR AT STEEL OBJECTS



SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

5 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS  
SCALE: NOT TO SCALE



NOTES:

1. GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL.
2. GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D).

6 GROUND ROD DETAIL  
SCALE: NOT TO SCALE

T-Mobile

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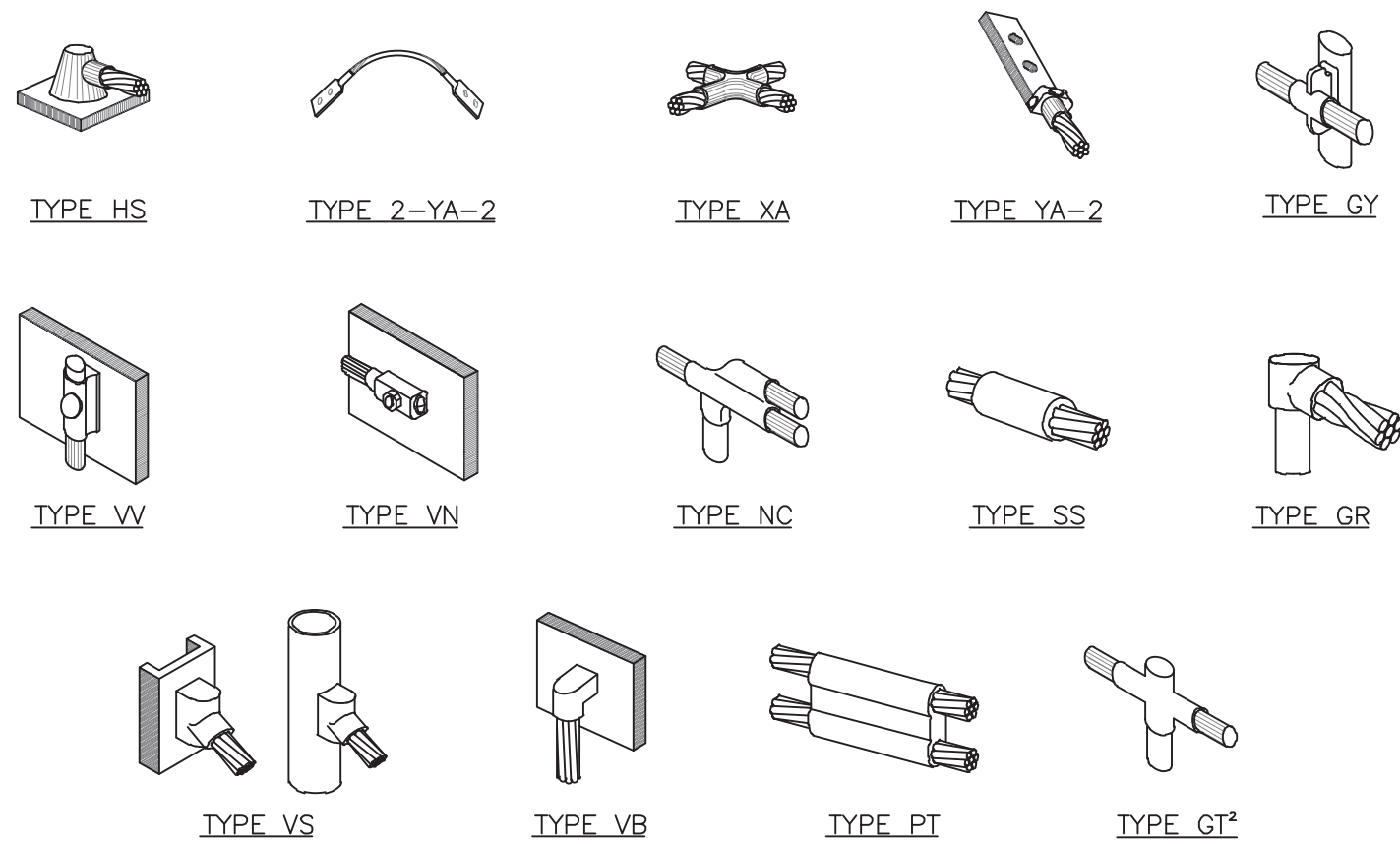
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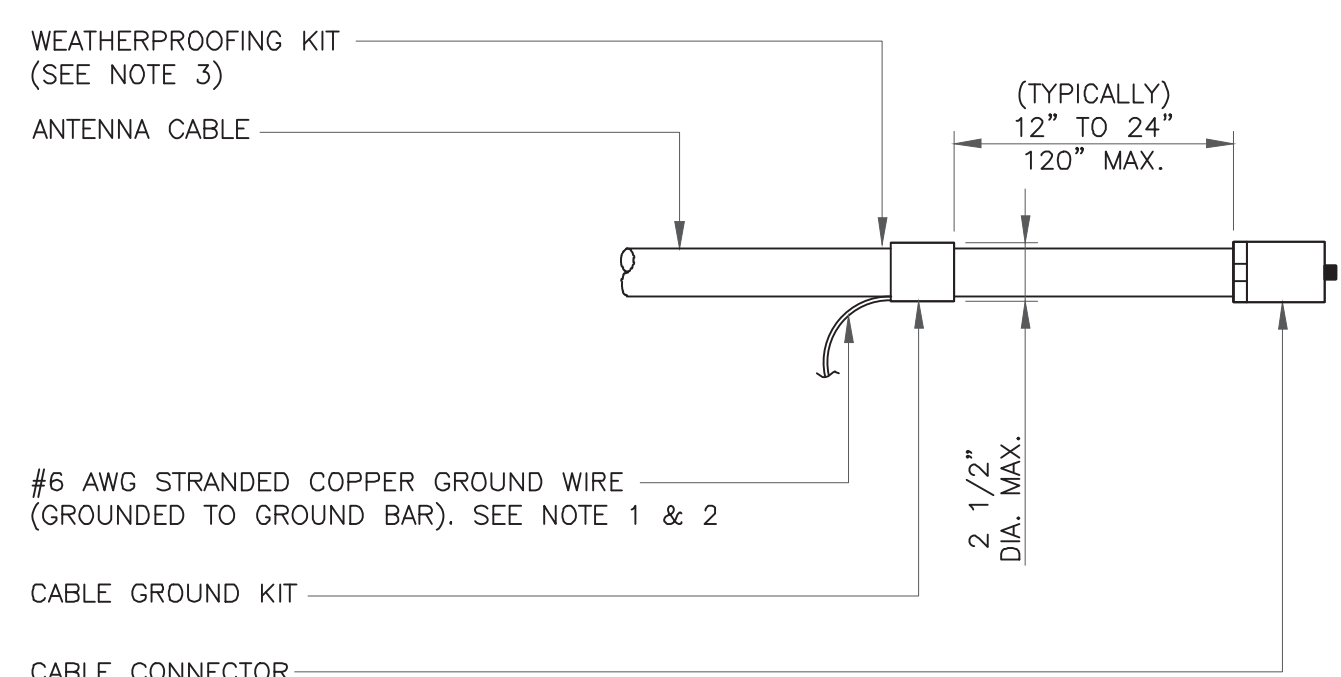




**NOTE:**

1. ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.
2. MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

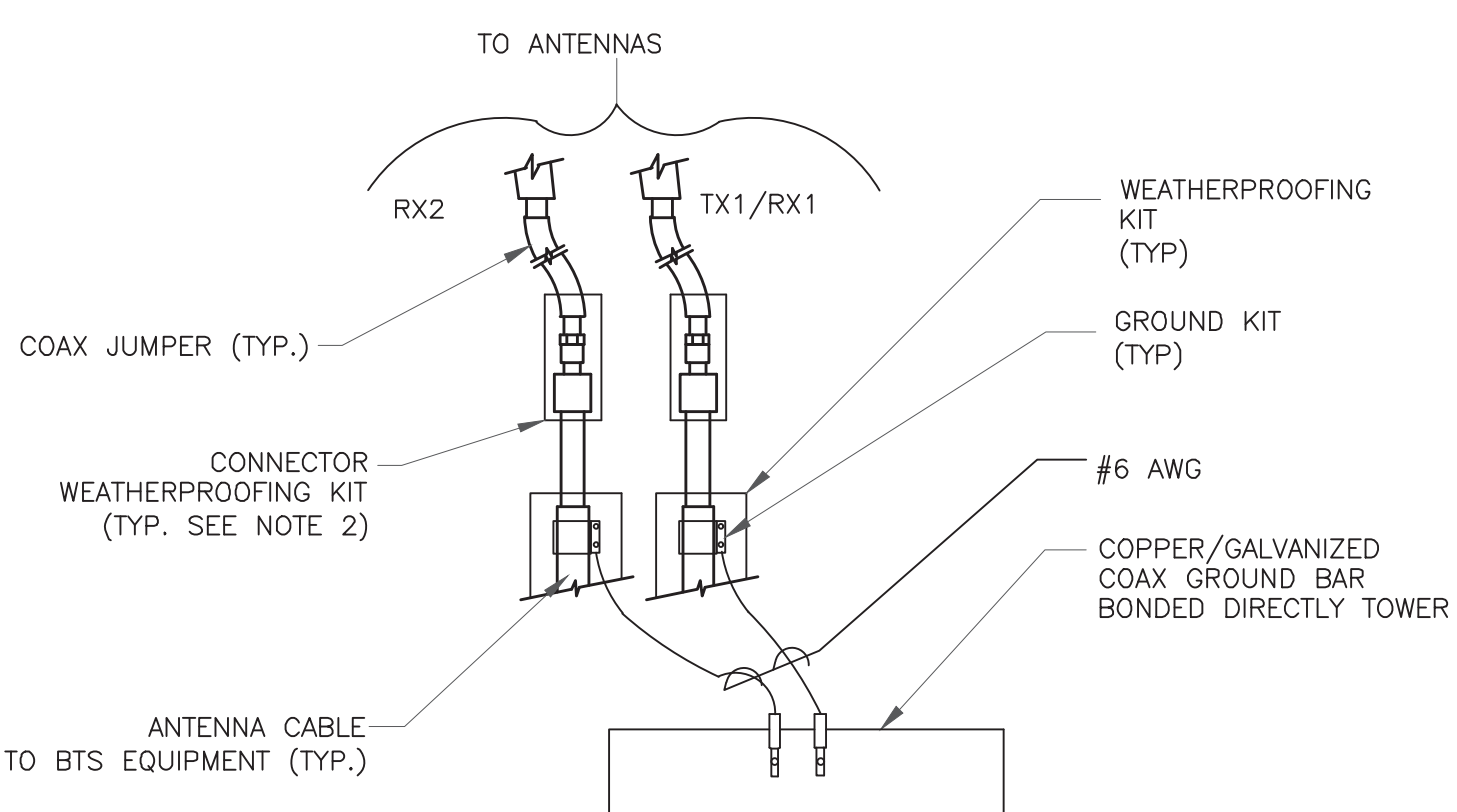
**1 CADWELD GROUNDING CONNECTIONS**  
SCALE: NOT TO SCALE



**NOTES:**

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.

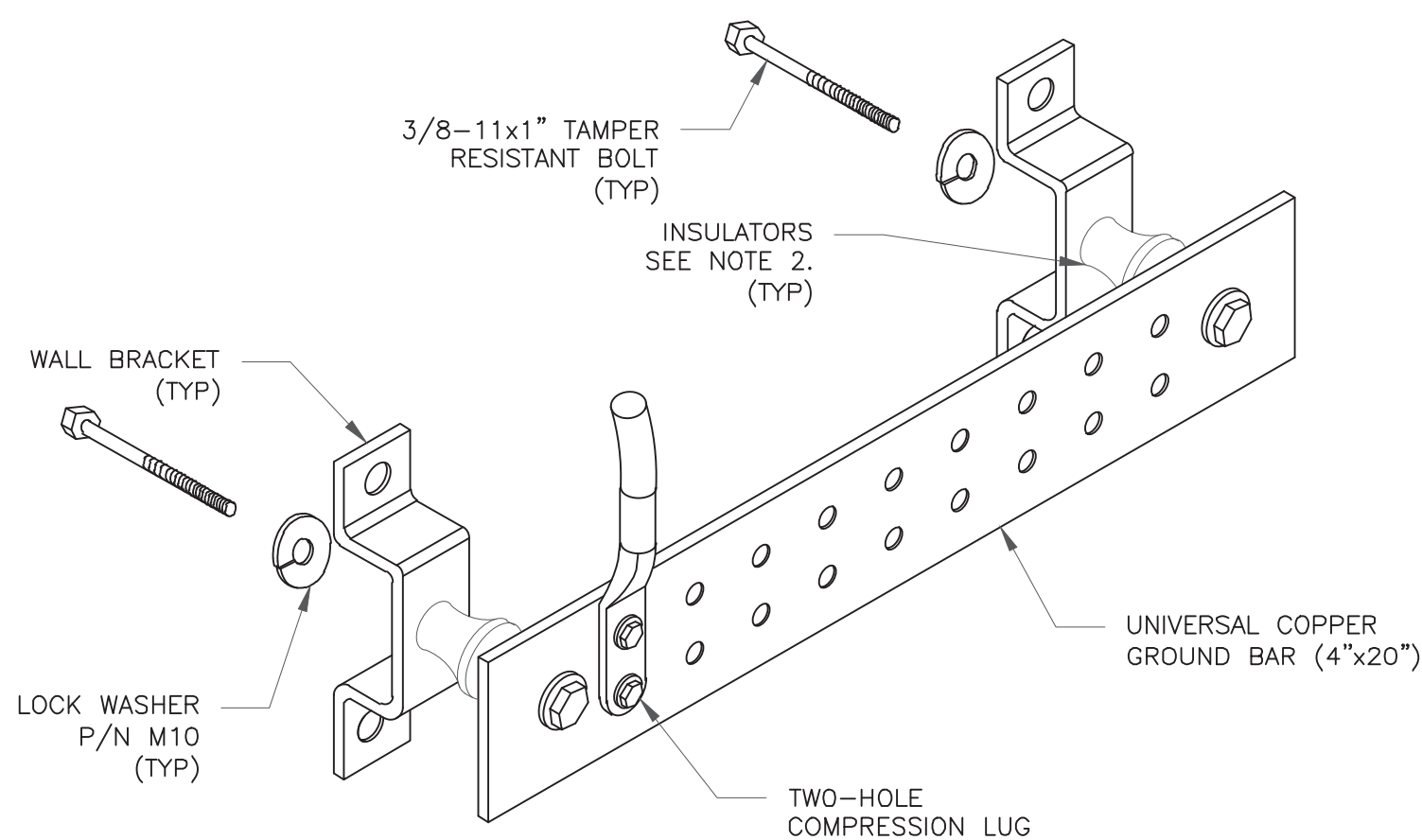
**3 CABLE GROUND KIT CONNECTION**  
SCALE: NOT TO SCALE



**NOTES:**

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.

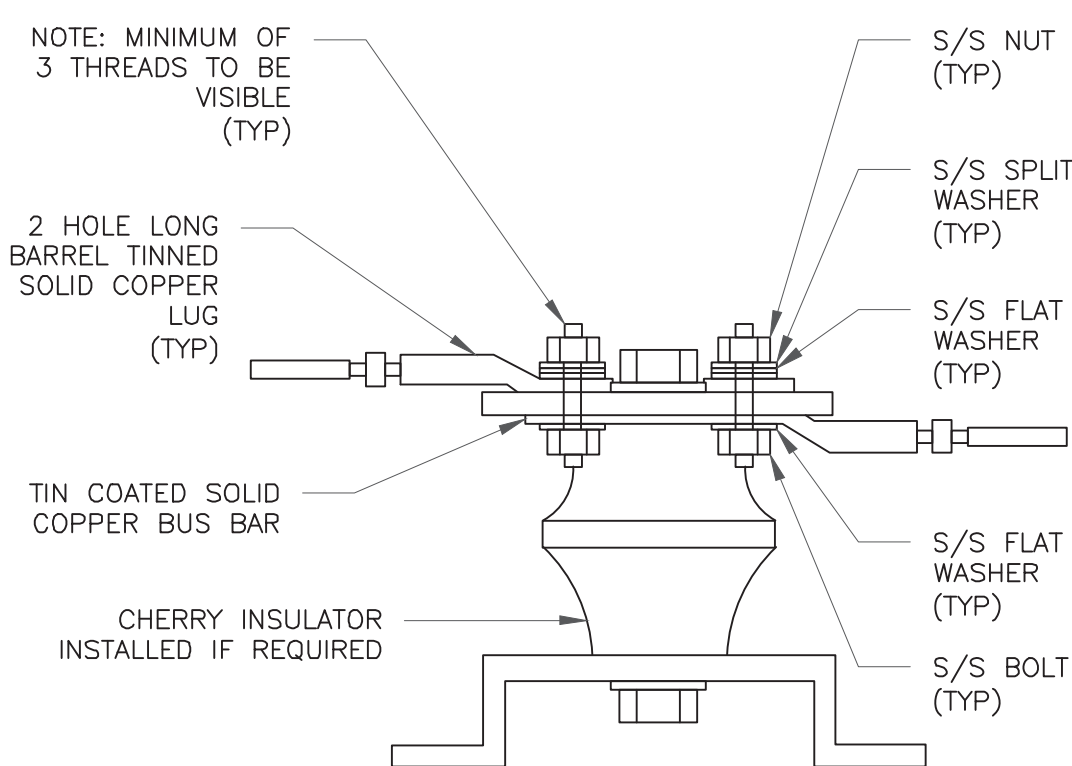
**4 GROUND CABLE CONNECTION**  
SCALE: NOT TO SCALE



**NOTES:**

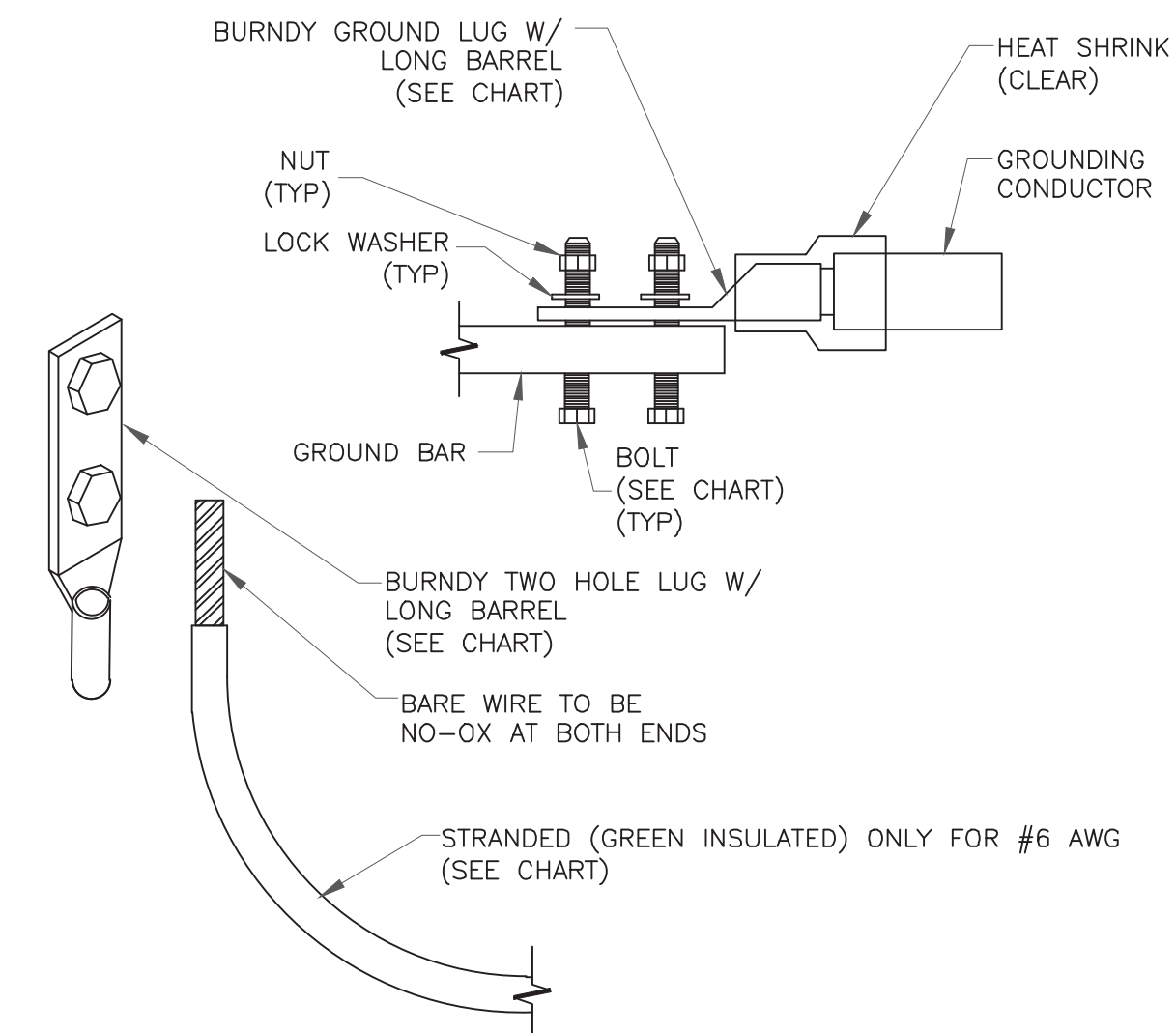
1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

**6 GROUND BAR DETAIL**  
SCALE: NOT TO SCALE



**7 LUG DETAIL**  
SCALE: NOT TO SCALE

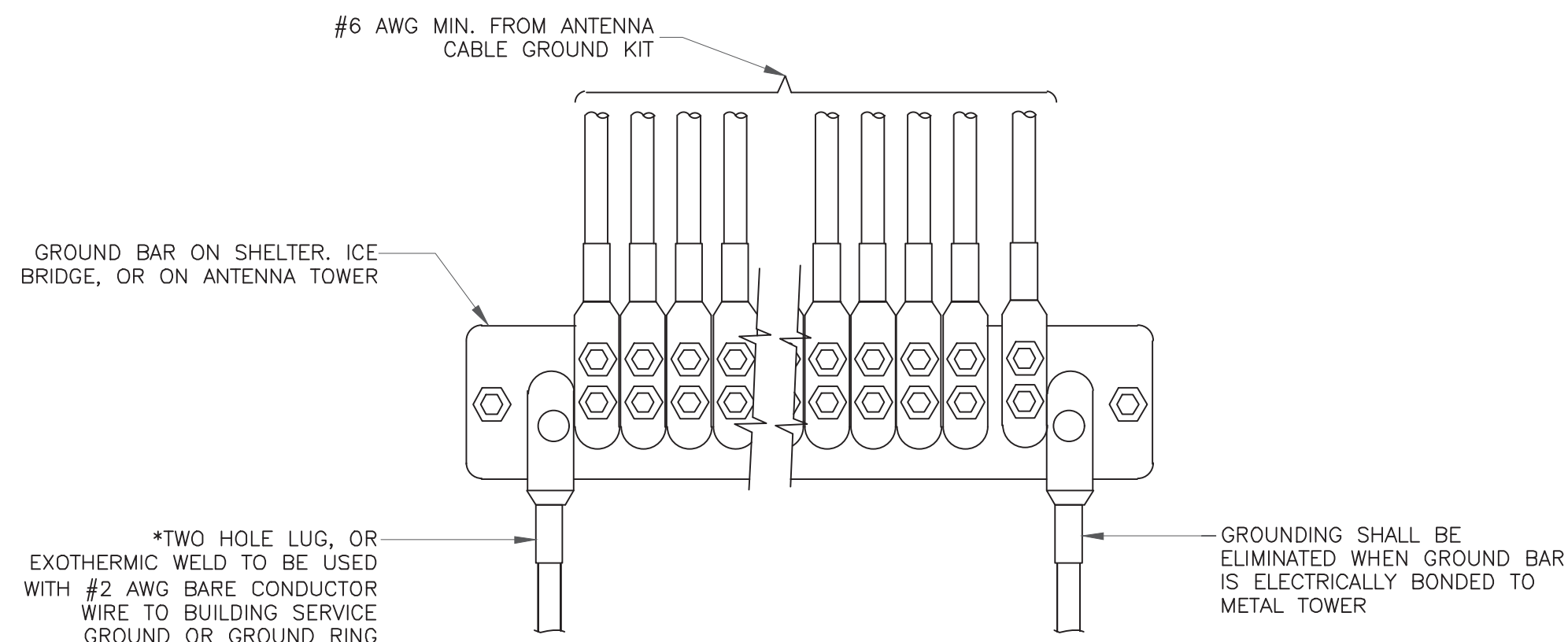
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



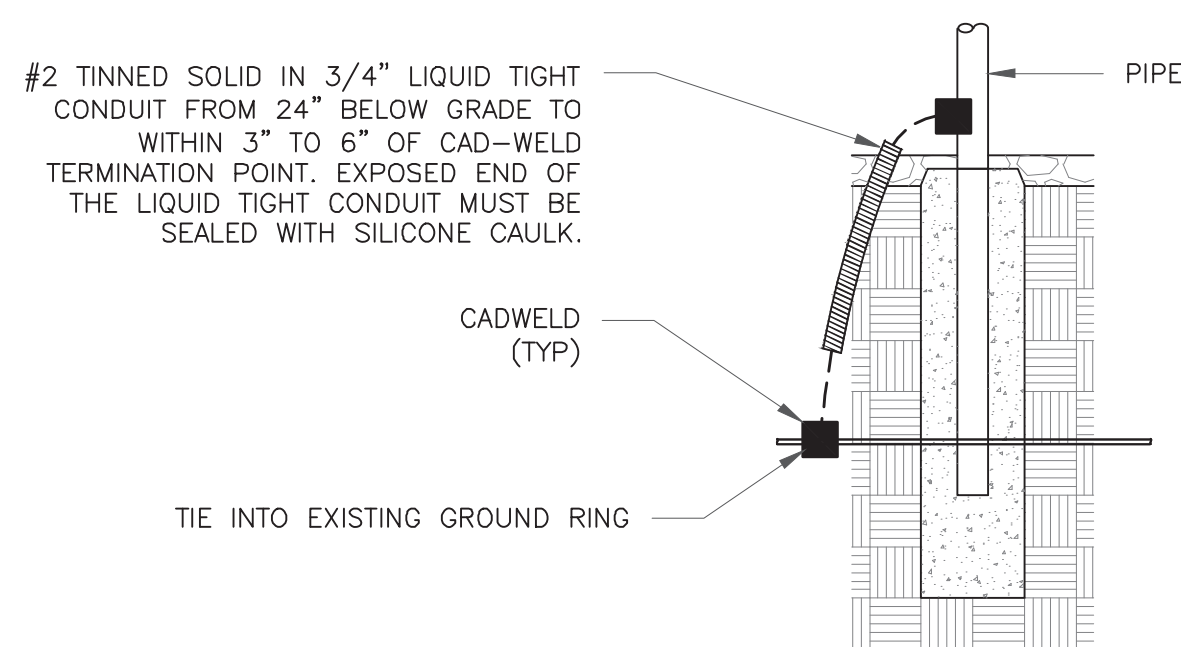
**NOTES:**

1. ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

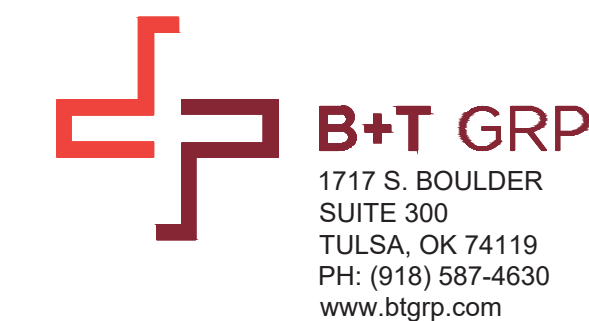
**2 MECHANICAL LUG CONNECTION**  
SCALE: NOT TO SCALE



**5 GROUNDWIRE INSTALLATION**  
SCALE: NOT TO SCALE



**8 TRANSITIONING GROUND DETAIL**  
SCALE: NOT TO SCALE



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SHEET NUMBER:

**G-3**

REVISION:

**0**