



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

July 23, 2021

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

RE: **Notice of Exempt Modification for T-Mobile: 876406**
189 Boston Post Road, Old Lyme, CT 06371
Latitude: 41° 20' 56.37" / Longitude: -72° 17' 43.65"

Dear Ms. Bachman:

T-Mobile currently maintains three (3) antennas at the 111-foot mount on the existing 135-foot monopole, tower located at 189 Boston Post Road, Old Lyme, CT. The property is owned by Town of Old Lyme. The tower is owned by Crown Castle. T-Mobile now intends to replace three (3) antennas and ancillary equipment at the 111ft 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) RFS/Celwave – APXVAALL24_43-U-NA20
- (3) Ericsson Radio 4449 B71 + B85
- (1) Ericsson HCS 6x12 6AWG Hybrid

Remove:

- (3) APXV18-206517S-C-A20 Antennas
- (6) E15S09P74 Diplexers
- (3) Omni Whip Antennas
- (3) Dipole Antenna

Ground:

Install New:

- (6) AWS/PCS Diplexers

The Foundation for a Wireless World.

CrownCastle.com

The facility was approved by the Town of Olde Lyme on May 24th, 2001. The approval was given without conditions.

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 The First Selectman Mr. Timothy Griswold for the Town of Olde Lyme as property owner, Planning Board Chairman Mr. Harold Thompson as property owner for the Town of Lyme, and Crown Castle is the 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.

Sincerely,


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

Attachments

cc:

The First Selectman Mr. Timothy Griswold (*via FedEx delivery*), Town Hall 52 Lyme St, Olde Lyme, CT 06371
Planning Board Chairman Mr. Harold Thompson (*via FedEx only*) Town Hall 52 Lyme St, Olde Lyme, CT 06371
Crown Castle, Tower Owner

189 BOSTON POST RD

Location 189 BOSTON POST RD

Mblu 63 / 123 / 1

Acct# 00308400

Owner TOWN OF OLD LYME

Assessment \$515,800

Appraisal \$736,700

PID 3249

Building Count 1

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2019	\$593,400	\$143,300	\$736,700
Assessment			
Valuation Year	Improvements	Land	Total
2019	\$415,400	\$100,400	\$515,800

Owner of Record

Owner TOWN OF OLD LYME

Sale Price \$0

Co-Owner FIRE HOUSE -BOUGHTON RD

Certificate

Address 189 BOSTON POST RD

Book & Page 0012/0627

OLD LYME, CT 06371

Sale Date 03/24/1924

Ownership History

Ownership History				
Owner	Sale Price	Certificate	Book & Page	Sale Date
TOWN OF OLD LYME	\$0		0012/0627	03/24/1924
TOWN OF OLD LYME	\$0		/0	

Building Information

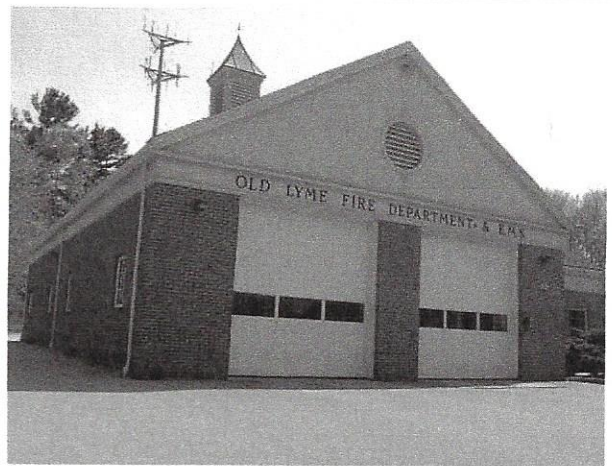
Building 1 : Section 1

Year Built: 1992
Living Area: 3,874
Replacement Cost: \$574,362
Building Percent Good: 90
Replacement Cost
Less Depreciation: \$516,900

Building Attributes

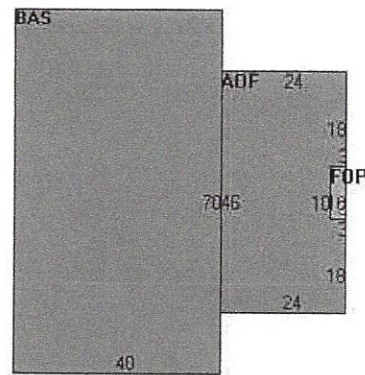
Field	Description
Style:	Fire Station
Model	Ind/Comm
Grade	Average
Stories:	1
Occupancy	1.00
Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Drywall/Sheet
Interior Wall 2	
Interior Floor 1	Concr-Finished
Interior Floor 2	
Heating Fuel	Gas
Heating Type	Forced Air-Duc
AC Type	06
Struct Class	
Bldg Use	MUNICIPAL MDL-96
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	903I
Heat/AC	HEAT/AC SPLIT
Frame Type	MASONRY
Baths/Plumbing	AVERAGE
Ceiling/Wall	SUS-CEIL & WL
Rooms/Prtns	AVERAGE
Wall Height	14.00
% Comn Wall	0.00

Building Photo



(<http://images.vgsi.com/photos/OldLymeCTPhotos/A00\00\93\92.jpg>)

Building Layout



(http://images.vgsi.com/photos/OldLymeCTPhotos/Sketches/3249_3249.jr)

Building Sub-Areas (sq ft)			Legend	
Code	Description	Gross Area	Living Area	
BAS	First Floor	2,800	2,800	
AOF	Office, (Average)	1,074	1,074	
FOP	Porch, Open, Finished	30	0	
		3,904	3,874	

Extra Features

Extra Features				Legend
Code	Description	Size	Value	Bldg #
A/C	AIR COND	1074.00 UNITS	\$2,400	1
GEN	GENERATOR	1.00 UNITS	\$0	1

Land

Land Use

Land Line Valuation

Use Code 9031
Description MUNICIPAL MDL-96
Zone R-20
Neighborhood 0050
Alt Land Appr No
Category

Size (Acres) 1.03
Frontage 0
Depth 0
Assessed Value \$100,400
Appraised Value \$143,300

Outbuildings

Outbuildings						Legend
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
PAV1	PAVING-ASPHALT			16850.00 S.F.	\$25,300	1
SHD2	W/LIGHTS ETC			360.00 S.F.	\$3,800	1
MSC19	TOWER			1.00 UNIT	\$45,000	1

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2020	\$593,400	\$143,300	\$736,700
2019	\$506,400	\$150,800	\$657,200
2018	\$506,400	\$150,800	\$657,200

Assessment			
Valuation Year	Improvements	Land	Total
2020	\$415,400	\$100,400	\$515,800
2019	\$354,400	\$105,600	\$460,000
2018	\$354,400	\$105,600	\$460,000

Application Fee: \$10

Permit No. 01-161 Fee Paid: \$10

5/24/01

Please see directions on reverse

TOWN OF OLD LYME Zoning Compliance Permit Application

Property Owner of Record: Town of Old Lyme Phone: 860 434 1605

Property Address: 189 Boston Post Road map: 63 lot: 133 zone: _____

Mailing Address: 52 Lyme Street Old Lyme CT 06371
number street town state zip

Builder: Sprint PCS - Contractor TRD

Mailing Address: 1 International Blvd Suite 800 Mahwah NJ 07495
number street town state zip

Existing Status: 90' wooden communications pole
seasonal /year round dimensions: _____ height: 90' ft lot size: appx 1 1/2 ac. sq. ft./acres road width: _____

total footprint area: 1125 sq. ft. 1st floor area: _____ sq. ft. 2nd floor area: _____ sq. ft. number of bedrooms: _____

Proposal: 110' monopole replacement
seasonal /year round dimensions: _____ total footprint area: 1125 sq. ft. height: 110' ft

1st floor area: _____ sq. ft. 2nd floor area: _____ sq. ft. number of bedrooms: _____

Plot Plan /Modified Plot Plan (as described in Section 51.2 of the Old Lyme Zoning Regulations) is attached.

By signing this application, the applicant acknowledges that he understands that it is the applicant's responsibility to conform to the Town of Old Lyme's Zoning Regulations and that if the information here provided proves to be false, incomplete, and/or inaccurate, the permit will be revoked. Further, by signing this application, the applicant consents to access to the premises, at reasonable times, by appropriate officials of the Town of Old Lyme for the purpose of evaluating this application prior to its approval; inspections to monitor compliance of any work performed pursuant to any approval of this application; and continuing compliance inspections and monitoring following completion of any work authorized by such approval. This consent shall include the interior of any buildings existing or proposed on the premises, where access to such buildings is reasonably required in order to monitor compliance with applicable regulations of the Town of Old Lyme, any permit issued thereunder, or any conditions of such permit. This consent shall be deemed to run with the land and be binding upon future assignees of the subject permit, and use of such permit by the applicant or its successor(s) shall constitute acceptance of this consent.

Signature of Owner/Applicant: Rich D. [unclear] For Sprint PCS Date: 5/24/01
Name/Address: 345 Buckland Hills Drive Apt 1-114 Middletown CT Phone: 860-444-9449
06040

Office Use Only

- Flood Hazard Permit: panel DL zone C req'd: _____ not req'd: exempt: _____ comment: _____
- Coastal Site Plan Review: req'd: _____ not req'd: exempt: _____ comment: _____
- Water Resource District: n/a: _____ complies: Conservation Zone: n/a: complies: _____
- Historic District: n/a: complies: _____ Driveway Permit: req'd: _____ not req'd: _____ approval: _____
- Site Development Plan: req'd: _____ not req'd: approval: _____
- Special Exception: req'd: _____ not req'd: agency: _____ approval: _____
- Health Review: well permit: _____ well complete: _____ septic permit: _____ number bedrooms: _____

Comment: _____
Approved/Denied: John V. [unclear] Date: 5-25-01 Approved/Denied _____ Date: _____

Zoning Review: (foundation/structure): _____

Variance Application Number: _____ Effective Date: approved/denied date: _____

Zoning Review: (foundation/structure): repair of existing tower w/ new structure
approved/denied date: 5/24/01

Zoning Review: (foundation/structure): _____

Certificate of Zoning Compliance: _____ approved/denied _____ date: _____

_____ approved: _____ date: _____

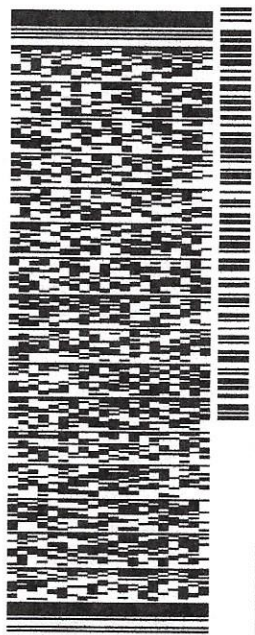
5/31/00

ORIGIN ID:BBFA (781) 970-0053
JEFF BARBADORA
1800 W. PARK DRIVE
WESTBOROUGH, MA 01581
UNITED STATES US

SHIP DATE: 23 JUL 21
ACTWGT: 0.50 LB
CAD: 108048270/NET4400
BILL SENDER

TO FIRST SELECTMAN TIMOTHY GRISWOLD
TOWN OF OLD LYME
52 LYME STREET

OLD LYME CT 06371
(860) 434-1605 X 212 REF: 7990017690
INV. PO. DEPT:



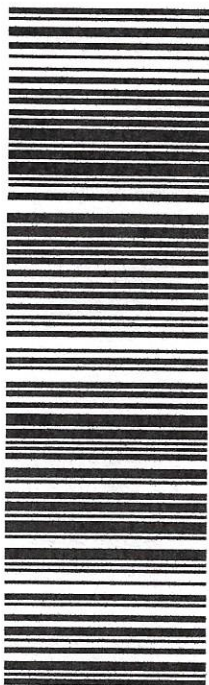
56DJ2J0265/FE4A

TRK# 7743 4495 9737
0201

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PRIORITY OVERNIGHT

XE SKKA

06371
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Received by C.WYMAN

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TRACKING NUMBER [774344959737](#)

FROM Jeff Barbadora
1800 W. Park Drive

WESTBOROUGH, MA, US, 01581

TO Town of Old Lyme
First Selectman Timothy Griswold
52 Lyme Street
OLD LYME, CT, US, 06371

REFERENCE 799001.7680

SHIPPER REFERENCE 799001.7680

SHIP DATE Fri 7/23/2021 06:12 PM

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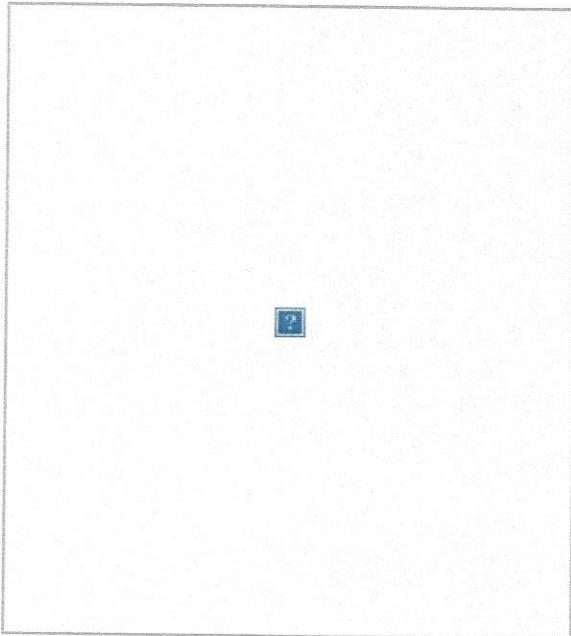
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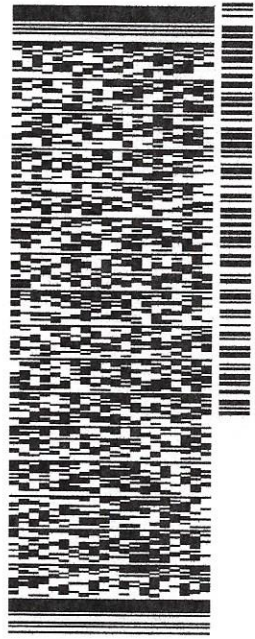
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UNITED STATES US

SHIP DATE: 23 JUL 21
ACTWGT: 0.50 LB
CAD: 108046270/NET4400
BILL SENDER

TO **PLANNING BOARD HAROLD THOMPSON**
TOWN OF OLD LYME
52 LYME STREET

OLD LYME CT 06371

(860) 434-1605 X 234 REF: 7990017690
PO: DEPT:



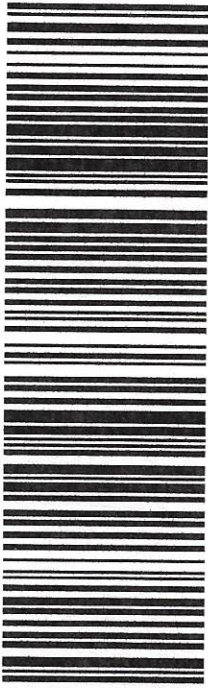
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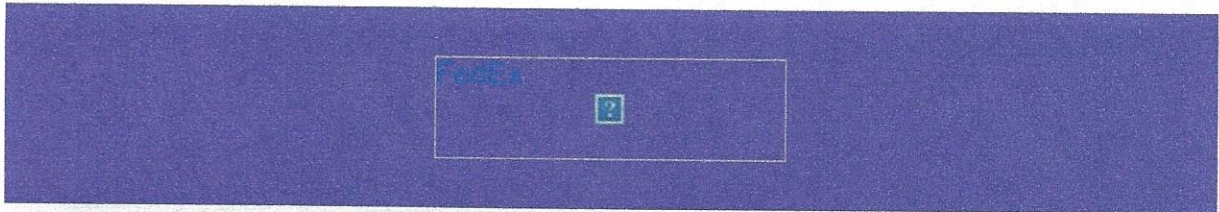
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Received by C.WYMAN

OBTAIN PROOF OF DELIVERY

TRACKING NUMBER [774345004114](#)

FROM Jeff Barbadora
1800 W. Park Drive

WESTBOROUGH, MA, US, 01581

TO Town of Old Lyme
Planning Board Harold Thompson
52 Lyme Street
OLD LYME, CT, US, 06371

REFERENCE 799001.7680

SHIPPER REFERENCE 799001.7680

SHIP DATE Fri 7/23/2021 06:12 PM

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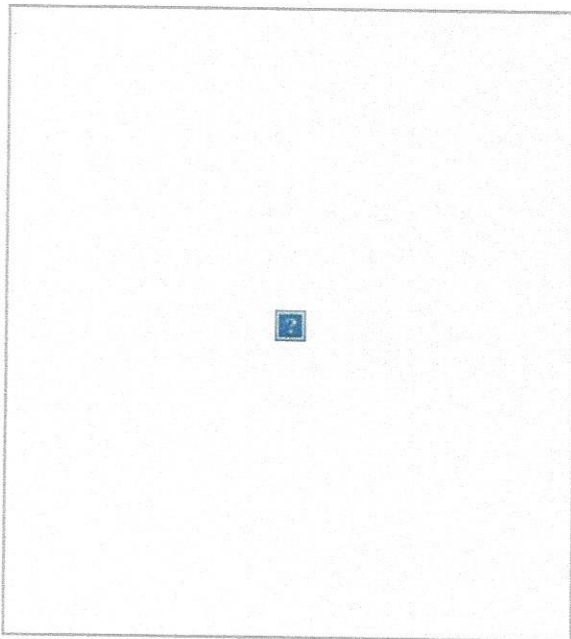
DESTINATION OLD LYME, CT, US, 06371

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NUMBER OF PIECES 1

TOTAL SHIPMENT WEIGHT 0.50 LB

SERVICE TYPE FedEx Priority Overnight



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MORRISON HERSHFIELD

Morrison Hershfield
1455 Lincoln Parkway, Suite 500
Atlanta, GA 30346
(770) 397-8500

Date: **June 29, 2021**

Subject: **Structural Analysis Report**

Carrier Designation: **Metro PCS Co-Locate**
Site Number: CTNL226A
Site Name: Crown Old Lyme Monopole

Crown Castle Designation: **BU Number:** 876406
Site Name: NE Old Lyme-Old Lyme Firehouse
JDE Job Number: 506803
Work Order Number: 1990760
Order Number: 441746 Rev. 8

Engineering Firm Designation: **Morrison Hershfield Project Number:** CN8-847 / 2101398

Site Data: **189 Boston Post Road, Old Lyme, New London County, CT 06371**
Latitude 41° 20' 56.37", Longitude -72° 17' 43.65"
135 Foot – EEI Monopole Tower

Morrison Hershfield 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 – 88.7%**

This analysis utilizes an ultimate 3-second gust wind speed of 135 mph as required by the 2015 International Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Respectfully submitted by:

G. Lance Cooke, P.E. (CT License No. PEN.0028133)
Senior Engineer



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tnxTower Output

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Additional Calculations

1) INTRODUCTION

This tower is a 135 ft monopole tower designed by Engineered Endeavors, Inc.

The tower was modified multiple times in the past to accommodate additional loading. All the modifications are considered in this analysis per their respective post modification inspection reports.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	135 mph
Exposure Category:	C
Topographic Factor:	1
Ice Thickness:	1.5 in
Wind Speed with Ice:	50 mph
Service Wind Speed:	60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
111.0	111.0	1	-	Platform Mount [LP 712-1]	6 1	7/8 1-3/8
		1	-	Side Arm Mount [SO 701-3]		
	108.0	3	rfs/celwave	APXVAALL24_43-U-NA20_TMO w/ Mount Pipe		
		3	ericsson	RADIO 4449 B71 B85A_T-MOBILE		

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)
135.0	142.0	1	scala	SL11-840/UT4	8 6	7/8 1/2
	140.0	1	decibel	DB222		
	139.0	2	decibel	ASP-702		
		1	decibel	DB408		
		1	sinclair	SRL-101A		
	137.0	1	decibel	DB404		
	135.0	1	-	T-Arm Mount [TA 702-3]		
125.0	127.0	6	kmw	EPBQ-654L8H8-L2 w/ Mount Pipe	5 2	7/8 3/8
		3	ericsson	RRUS 4449 B5/B12		
		3	ericsson	RRUS 4478 B14		
		3	ericsson	RRUS 8843 B2/B66A		
		2	raycap	DC6-48-60-18-8F		
	125.0	1	-	Sector Mount [SM 502-3]		
97.0	100.0	3	commscope	NNVV-65B-R4 w/ Mount Pipe	3 1	1-1/4 7/8
		3	rfs/celwave	APXVTM14-ALU-I20 w/ Mount Pipe		
		6	alcatel lucent	RRH2X50-800		
		3	nokia	FZHN		
		3	alcatel lucent	PCS 1900MHZ 4X45W-65MHZ		
	97.0	1	-	Platform Mount [LP 402-1]		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
87.0	90.0	6	antel	LPA-80080/4CF w/ Mount Pipe	14	1-5/8
		3	commscope	HBXX-6517DS-A2M w/ Mount Pipe		
		3	commscope	HBXX-9014DS-A2M w/ Mount Pipe		
		3	commscope	LNK-6514DS-A1M w/ Mount Pipe		
		3	alcatel lucent	RRH2X60-AWS		
		3	alcatel lucent	RRH2X60-PCS		
		2	rfs/celwave	DB-T1-6Z-8AB-0Z		
	87.0	1	-	Platform Mount [LP 303-1]		
75.0	76.0	1	lucent	KS24019-L112A	1	1/2
	75.0	1	-	Side Arm Mount [SO 701-1]		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
4-GEOTECHNICAL REPORTS	1532996	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	1603991	CCISITES
4-TOWER MANUFACTURER DRAWINGS	2070886	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	2167834	CCISITES
4-POST-MODIFICATION INSPECTION	5961595	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	5790815	CCISITES
4-POST-MODIFICATION INSPECTION	8312961	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	7713249	CCISITES
4-POST-MODIFICATION INSPECTION	8313254	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	8265437	CCISITES
4-POST-MODIFICATION INSPECTION	9296588	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 (version 8.1.1.0), 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.

3.2) Assumptions

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

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

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
L1	135 - 130	Pole	TP16x16x0.465	Pole	3.4	Pass
L2	130 - 125	Pole	TP16x16x0.465	Pole	5.8	Pass
L3	125 - 120	Pole	TP16x16x0.465	Pole	19.5	Pass
L4	120 - 115	Pole	TP16x16x0.465	Pole	31.0	Pass
L5	115 - 110.5	Pole	TP16x16x0.465	Pole	41.0	Pass
L6	110.5 - 110	Pole	TP16x16x0.465	Pole	42.7	Pass
L7	110 - 109.75	Pole + Reinf.	TP16.059x16x0.9	Reinf. 10 Tension Rupture	26.0	Pass
L8	109.75 - 104.75	Pole + Reinf.	TP17.234x16.059x0.8125	Reinf. 10 Tension Rupture	33.6	Pass
L9	104.75 - 99.75	Pole + Reinf.	TP18.41x17.234x0.7625	Reinf. 10 Tension Rupture	40.5	Pass
L10	99.75 - 94.75	Pole + Reinf.	TP19.586x18.41x0.7125	Reinf. 10 Tension Rupture	49.2	Pass
L11	94.75 - 90.92	Pole + Reinf.	TP20.486x19.586x0.675	Reinf. 10 Tension Rupture	55.7	Pass
L12	90.92 - 90.67	Pole + Reinf.	TP20.545x20.486x0.8625	Reinf. 9 Compression	43.1	Pass
L13	90.67 - 86.41	Pole + Reinf.	TP22.33x20.545x0.8125	Reinf. 9 Compression	50.0	Pass
L14	86.41 - 81.41	Pole + Reinf.	TP22.333x21.172x0.85	Reinf. 9 Compression	54.5	Pass
L15	81.41 - 76.41	Pole + Reinf.	TP23.494x22.333x0.8125	Reinf. 9 Compression	60.9	Pass
L16	76.41 - 74.5	Pole + Reinf.	TP23.938x23.494x0.8	Reinf. 9 Compression	63.2	Pass
L17	74.5 - 74.25	Pole + Reinf.	TP23.996x23.938x1.275	Reinf. 11 Tension Rupture	44.7	Pass
L18	74.25 - 70.58	Pole + Reinf.	TP24.848x23.996x1.2	Reinf. 11 Tension Rupture	47.9	Pass
L19	70.58 - 70.33	Pole + Reinf.	TP24.906x24.848x1.2	Reinf. 11 Tension Rupture	48.1	Pass
L20	70.33 - 66.33	Pole + Reinf.	TP25.835x24.906x1.15	Reinf. 11 Tension Rupture	51.4	Pass
L21	66.33 - 66.08	Pole + Reinf.	TP25.893x25.835x1.3	Reinf. 8 Compression	44.2	Pass
L22	66.08 - 61.08	Pole + Reinf.	TP27.055x25.893x1.225	Reinf. 8 Compression	47.6	Pass
L23	61.08 - 60	Pole + Reinf.	TP27.305x27.055x1.225	Reinf. 8 Compression	48.3	Pass
L24	60 - 59.75	Pole + Reinf.	TP27.363x27.305x1.225	Reinf. 8 Compression	48.4	Pass
L25	59.75 - 54.75	Pole + Reinf.	TP28.525x27.363x1.15	Reinf. 8 Compression	51.5	Pass
L26	54.75 - 49.75	Pole + Reinf.	TP29.686x28.525x1.1	Reinf. 8 Compression	54.4	Pass
L27	49.75 - 49.2	Pole + Reinf.	TP30.84x29.686x1.1	Reinf. 8 Compression	54.7	Pass
L28	49.2 - 43.78	Pole + Reinf.	TP30.573x29.314x1.1375	Reinf. 8 Compression	55.4	Pass
L29	43.78 - 38.78	Pole + Reinf.	TP31.736x30.573x1.1125	Reinf. 8 Compression	57.7	Pass
L30	38.78 - 35.5	Pole + Reinf.	TP32.498x31.736x1.0875	Reinf. 8 Compression	59.1	Pass
L31	35.5 - 35.25	Pole + Reinf.	TP32.556x32.498x1.0875	Reinf. 4 Compression	59.2	Pass
L32	35.25 - 30.25	Pole + Reinf.	TP33.718x32.556x1.0375	Reinf. 4 Compression	61.3	Pass
L33	30.25 - 25.25	Pole + Reinf.	TP34.881x33.718x1.0125	Reinf. 4 Compression	63.2	Pass
L34	25.25 - 20.25	Pole + Reinf.	TP36.043x34.881x0.9875	Reinf. 4 Compression	65.0	Pass
L35	20.25 - 15.75	Pole + Reinf.	TP37.089x36.043x0.9625	Reinf. 4 Compression	66.5	Pass
L36	15.75 - 15.5	Pole + Reinf.	TP37.147x37.089x1.0125	Reinf. 15 Tension Yield	66.0	Pass
L37	15.5 - 10.5	Pole + Reinf.	TP38.309x37.147x0.9875	Reinf. 15 Tension Yield	67.5	Pass
L38	10.5 - 7.25	Pole + Reinf.	TP39.065x38.309x0.9625	Reinf. 15 Tension Yield	68.4	Pass
L39	7.25 - 7	Pole + Reinf.	TP39.123x39.065x0.9625	Reinf. 15 Tension Yield	68.1	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
L40	7 - 5.83	Pole + Reinf.	TP39.395x39.123x0.9625	Reinf. 15 Tension Yield	68.4	Pass
L41	5.83 - 5.58	Pole + Reinf.	TP39.453x39.395x1.1125	Reinf. 12 Tension Yield	60.6	Pass
L42	5.58 - 4.08	Pole + Reinf.	TP39.802x39.453x1.1125	Reinf. 12 Tension Yield	61.0	Pass
L43	4.08 - 3.83	Pole + Reinf.	TP39.86x39.802x1.1125	Reinf. 12 Tension Yield	61.5	Pass
L44	3.83 - 0	Pole + Reinf.	TP40.75x39.86x1.0875	Reinf. 12 Tension Yield	62.5	Pass
					Summary	
				Pole	49.3	Pass
				Reinforcement	68.4	Pass
				Overall	68.4	Pass

Table 5 - Tower Component Stresses vs. Capacity – LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	0	70.5	Pass
1	Base Plate		24.5	Pass
1	Base Foundation (Structure)	0	63.5	Pass
1	Base Foundation (Soil Interaction)		88.7	Pass

Structure Rating (max from all components) =	88.7%*
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Notes:

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

4.1) Recommendations

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

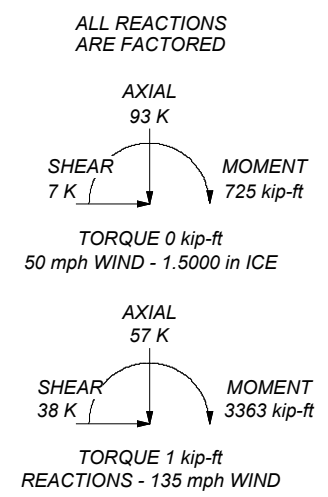
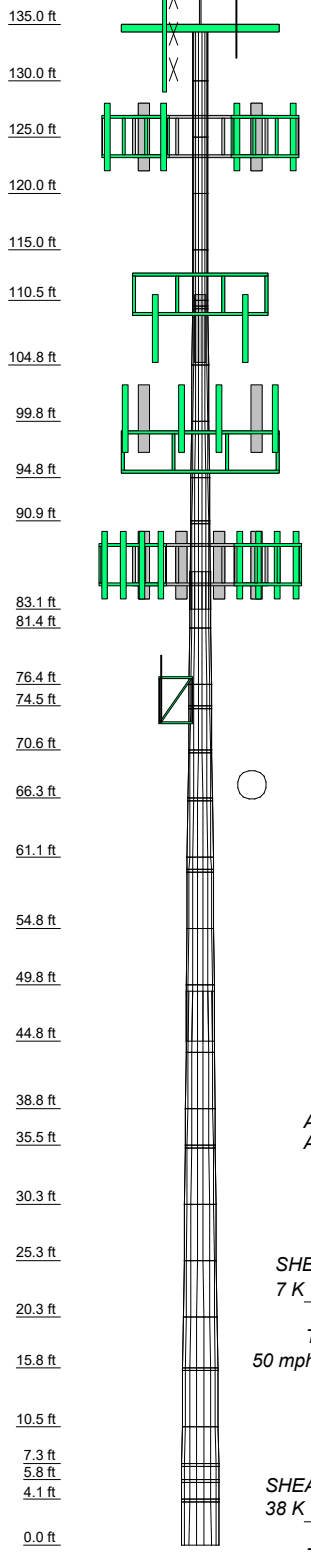
MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A53-B-42	42 ksi	63 ksi	A572-65	65 ksi	80 ksi

TOWER DESIGN NOTES

1. Tower is located in New London County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 135 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. CCI POLE RATING: 68.4%

Section	Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (K)
1	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
2	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
3	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
4	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
5	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
6	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
7	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
8	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
9	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
10	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
11	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
12	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
13	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
14	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
15	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
16	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
17	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
18	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
19	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
20	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
21	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
22	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
23	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
24	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
25	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
26	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
27	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
28	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
29	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
30	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
31	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
32	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
33	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
34	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
35	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
36	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
37	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
38	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
39	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4
40	5.00	0	0.4650	16.0000	16.0000	16.0000	A53-B-42	0.4



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 FAX: (770) 397-8501

Job: **CN8-874 / 2101398**
 Project: **876406 / NE Old Lyme-Old Lyme Firehouse**
 Client: **Crown Castle USA** Drawn by: **SK** App'd:
 Code: **TIA-222-H** Date: **06/29/21** Scale: **NTS**
 Path: **C:\Users\SKethavarapu\Desktop\Jobs\CN8-874\Analysis\CN8-874_BU_876406_WO_1990760.dwg** Dwg No. **E-1**

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 London County, Connecticut.
 Tower base elevation above sea level: 51.00 ft.
 Basic wind speed of 135 mph.
 Risk Category II.
 Exposure Category C.
 Simplified Topographic Factor Procedure for wind speed-up calculations is used.
 Topographic Category: 1.
 Crest Height: 0.00 ft.
 Nominal ice thickness of 1.5000 in.
 Ice thickness is considered to increase with height.
 Ice density of 56 pcf.
 A wind speed of 50 mph is used in combination with ice.
 Temperature drop of 50 °F.
 Deflections calculated using a wind speed of 60 mph.
 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"> Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification √ Use Code Stress Ratios √ Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use Special Wind Profile Include Bolts In Member Capacity Leg Bolts Are At Top Of Section Secondary Horizontal Braces Leg Use Diamond Inner Bracing (4 Sided) SR Members Have Cut Ends SR Members Are Concentric | <ul style="list-style-type: none"> Distribute Leg Loads As Uniform Assume Legs Pinned √ Assume Rigid Index Plate √ Use Clear Spans For Wind Area Use Clear Spans For KL/r Retention Guys To Initial Tension √ Bypass Mast Stability Checks √ Use Azimuth Dish Coefficients √ Project Wind Area of Appurt. Autocalc Torque Arm Areas Add IBC .6D+W Combination Sort Capacity Reports By Component Triangulate Diamond Inner Bracing Treat Feed Line Bundles As Cylinder Ignore KL/ry For 60 Deg. Angle Legs | <ul style="list-style-type: none"> Use ASCE 10 X-Brace Ly Rules Calculate Redundant Bracing Forces Ignore Redundant Members in FEA SR Leg Bolts Resist Compression All Leg Panels Have Same Allowable Offset Girt At Foundation √ Consider Feed Line Torque Include Angle Block Shear Check Use TIA-222-H Bracing Resist. Exemption Use TIA-222-H Tension Splice Exemption <div style="background-color: #e0e0e0; text-align: center; padding: 2px; margin: 5px 0;">Poles</div> <ul style="list-style-type: none"> √ Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets Pole Without Linear Attachments Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known |
|--|---|--|

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	135.00-130.00	5.00	0.00	Round	16.0000	16.0000	0.4650		A53-B-42 (42 ksi)
L2	130.00-125.00	5.00	0.00	Round	16.0000	16.0000	0.4650		A53-B-42 (42 ksi)
L3	125.00-120.00	5.00	0.00	Round	16.0000	16.0000	0.4650		A53-B-42 (42 ksi)
L4	120.00-115.00	5.00	0.00	Round	16.0000	16.0000	0.4650		A53-B-42

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
L5	115.00-110.50	4.50	0.00	Round	16.0000	16.0000	0.4650		(42 ksi) A53-B-42
L6	110.50-110.00	0.50	0.00	Round	16.0000	16.0000	0.4650		(42 ksi) A53-B-42
L7	110.00-109.75	0.25	0.00	18	16.0000	16.0588	0.9000	3.6000	(42 ksi) A572-65
L8	109.75-104.75	5.00	0.00	18	16.0588	17.2345	0.8125	3.2500	(65 ksi) A572-65
L9	104.75-99.75	5.00	0.00	18	17.2345	18.4102	0.7625	3.0500	(65 ksi) A572-65
L10	99.75-94.75	5.00	0.00	18	18.4102	19.5859	0.7125	2.8500	(65 ksi) A572-65
L11	94.75-90.92	3.83	0.00	18	19.5859	20.4865	0.6750	2.7000	(65 ksi) A572-65
L12	90.92-90.67	0.25	0.00	18	20.4865	20.5453	0.8625	3.4500	(65 ksi) A572-65
L13	90.67-83.08	7.59	3.33	18	20.5453	22.3300	0.8125	3.2500	(65 ksi) A572-65
L14	83.08-81.41	5.00	0.00	18	21.1720	22.3332	0.8500	3.4000	(65 ksi) A572-65
L15	81.41-76.41	5.00	0.00	18	22.3332	23.4943	0.8125	3.2500	(65 ksi) A572-65
L16	76.41-74.50	1.91	0.00	18	23.4943	23.9379	0.8000	3.2000	(65 ksi) A572-65
L17	74.50-74.25	0.25	0.00	18	23.9379	23.9960	1.2750	5.1000	(65 ksi) A572-65
L18	74.25-70.58	3.67	0.00	18	23.9960	24.8483	1.2000	4.8000	(65 ksi) A572-65
L19	70.58-70.33	0.25	0.00	18	24.8483	24.9063	1.2000	4.8000	(65 ksi) A572-65
L20	70.33-66.33	4.00	0.00	18	24.9063	25.8353	1.1500	4.6000	(65 ksi) A572-65
L21	66.33-66.08	0.25	0.00	18	25.8353	25.8934	1.3000	5.2000	(65 ksi) A572-65
L22	66.08-61.08	5.00	0.00	18	25.8934	27.0545	1.2250	4.9000	(65 ksi) A572-65
L23	61.08-60.00	1.08	0.00	18	27.0545	27.3054	1.2250	4.9000	(65 ksi) A572-65
L24	60.00-59.75	0.25	0.00	18	27.3054	27.3634	1.2250	4.9000	(65 ksi) A572-65
L25	59.75-54.75	5.00	0.00	18	27.3634	28.5246	1.1500	4.6000	(65 ksi) A572-65
L26	54.75-49.75	5.00	0.00	18	28.5246	29.6858	1.1000	4.4000	(65 ksi) A572-65
L27	49.75-44.78	4.97	4.42	18	29.6858	30.8400	1.1000	4.4000	(65 ksi) A572-65
L28	44.78-43.78	5.42	0.00	18	29.3135	30.5734	1.1375	4.5500	(65 ksi) A572-65
L29	43.78-38.78	5.00	0.00	18	30.5734	31.7356	1.1125	4.4500	(65 ksi) A572-65
L30	38.78-35.50	3.28	0.00	18	31.7356	32.4981	1.0875	4.3500	(65 ksi) A572-65
L31	35.50-35.25	0.25	0.00	18	32.4981	32.5562	1.0875	4.3500	(65 ksi) A572-65
L32	35.25-30.25	5.00	0.00	18	32.5562	33.7184	1.0375	4.1500	(65 ksi) A572-65
L33	30.25-25.25	5.00	0.00	18	33.7184	34.8807	1.0125	4.0500	(65 ksi) A572-65
L34	25.25-20.25	5.00	0.00	18	34.8807	36.0429	0.9875	3.9500	(65 ksi) A572-65
L35	20.25-15.75	4.50	0.00	18	36.0429	37.0889	0.9625	3.8500	(65 ksi) A572-65
L36	15.75-15.50	0.25	0.00	18	37.0889	37.1470	1.0125	4.0500	(65 ksi) A572-65
L37	15.50-10.50	5.00	0.00	18	37.1470	38.3093	0.9875	3.9500	(65 ksi) A572-65
L38	10.50-7.25	3.25	0.00	18	38.3093	39.0647	0.9625	3.8500	(65 ksi) A572-65

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
L39	7.25-7.00	0.25	0.00	18	39.0647	39.1229	0.9625	3.8500	A572-65 (65 ksi)
L40	7.00-5.83	1.17	0.00	18	39.1229	39.3948	0.9625	3.8500	A572-65 (65 ksi)
L41	5.83-5.58	0.25	0.00	18	39.3948	39.4529	1.1125	4.4500	A572-65 (65 ksi)
L42	5.58-4.08	1.50	0.00	18	39.4529	39.8016	1.1125	4.4500	A572-65 (65 ksi)
L43	4.08-3.83	0.25	0.00	18	39.8016	39.8597	1.1125	4.4500	A572-65 (65 ksi)
L44	3.83-0.00	3.83		18	39.8597	40.7500	1.0875	4.3500	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	It/Q in ²	w in	w/t
L1	16.0000	22.6942	685.2287	5.4949	8.0000	85.6536	1370.4574	11.3403	0.0000	0
L2	16.0000	22.6942	685.2287	5.4949	8.0000	85.6536	1370.4574	11.3403	0.0000	0
L3	16.0000	22.6942	685.2287	5.4949	8.0000	85.6536	1370.4574	11.3403	0.0000	0
L4	16.0000	22.6942	685.2287	5.4949	8.0000	85.6536	1370.4574	11.3403	0.0000	0
L5	16.0000	22.6942	685.2287	5.4949	8.0000	85.6536	1370.4574	11.3403	0.0000	0
L6	16.0000	22.6942	685.2287	5.4949	8.0000	85.6536	1370.4574	11.3403	0.0000	0
L7	16.1080	43.1347	1242.5610	5.3605	8.1280	152.8741	2486.7570	21.5714	1.2320	1.369
L8	16.1677	43.3026	1257.1297	5.3814	8.1579	154.1004	2515.9136	21.6554	1.2423	1.38
L9	16.1812	39.3183	1154.6753	5.4124	8.1579	141.5414	2310.8699	19.6629	1.3963	1.719
L10	17.3750	42.3503	1442.9297	5.8298	8.7551	164.8098	2887.7581	21.1792	1.6033	1.973
L11	17.3827	39.8651	1366.5405	5.8476	8.7551	156.0847	2734.8792	19.9363	1.6913	2.218
L12	18.5766	42.7105	1680.5380	6.2649	9.3524	179.6909	3363.2872	21.3593	1.8982	2.489
L13	18.5843	40.0229	1583.7240	6.2827	9.3524	169.3391	3169.5319	20.0153	1.9862	2.788
L14	19.7781	42.6817	1920.7899	6.7001	9.9496	193.0512	3844.1072	21.3449	2.1931	3.078
L15	19.7839	40.5157	1830.5640	6.7134	9.9496	183.9830	3663.5368	20.2617	2.2591	3.347
L16	20.6984	42.4451	2104.7464	7.0331	10.4071	202.2406	4212.2623	21.2266	2.4176	3.582
L17	20.6695	53.7222	2613.7596	6.9665	10.4071	251.1506	5230.9584	26.8662	2.0876	2.42
L18	20.7292	53.8831	2637.3192	6.9874	10.4370	252.6894	5278.1087	26.9467	2.0980	2.432
L19	20.7369	50.8884	2503.4128	7.0051	10.4370	239.8594	5010.1197	25.4490	2.1860	2.69
L20	22.5491	55.4909	3245.9601	7.6387	11.3436	286.1480	6496.1913	27.7507	2.5001	3.077
L21	22.1527	54.8267	2860.6278	7.2143	10.7554	265.9722	5725.0197	27.4185	2.2303	2.624
L22	22.5466	57.9594	3379.5435	7.6265	11.3452	297.8819	6763.5339	28.9852	2.4346	2.864
L23	22.5523	55.4991	3247.3923	7.6398	11.3452	286.2337	6499.0576	27.7548	2.5006	3.078
L24	23.7314	58.4937	3801.9209	8.0521	11.9351	318.5488	7608.8444	29.2524	2.7050	3.329
L25	23.7334	57.6255	3749.6222	8.0565	11.9351	314.1669	7504.1783	28.8182	2.7270	3.409
L26	24.1838	58.7518	3973.8123	8.2140	12.1605	326.7813	7952.8535	29.3815	2.8051	3.506
L27	24.1105	91.7134	5951.1679	8.0453	12.1605	489.3866	11910.1665	45.8654	1.9691	1.544
L28	24.1695	91.9484	5997.0233	8.0659	12.1900	491.9642	12001.9377	45.9829	1.9793	1.552
L29	24.1810	86.8253	5700.3356	8.0926	12.1900	467.6255	11408.1718	43.4209	2.1113	1.759
L30	25.0465	90.0716	6363.9214	8.3951	12.6229	504.1556	12736.2166	45.0444	2.2613	1.884
L31	25.0465	90.0716	6363.9214	8.3951	12.6229	504.1556	12736.2166	45.0444	2.2613	1.884
L32	25.1054	90.2927	6410.9090	8.4158	12.6524	506.6941	12830.2536	45.1549	2.2715	1.893
L33	25.1132	86.7130	6182.7441	8.4335	12.6524	488.6608	12373.6237	43.3648	2.3595	2.052
L34	26.0564	90.1038	6936.7689	8.7633	13.1243	528.5427	13882.6653	45.0605	2.5230	2.194
L35	26.0333	101.2375	7699.4841	8.7100	13.1243	586.6573	15409.0993	50.6284	2.2590	1.738
L36	26.0923	101.4771	7754.2726	8.7306	13.1538	589.5071	15518.7485	50.7482	2.2692	1.746
L37	26.1038	95.9143	7373.9644	8.7573	13.1538	560.5947	14757.6316	47.9662	2.4012	1.96
L38	27.2829	100.4291	8465.0679	9.1695	13.7437	615.9232	16941.2743	50.2241	2.6056	2.127
L39	27.2829	100.4291	8465.0679	9.1695	13.7437	615.9232	16941.2743	50.2241	2.6056	2.127
L40	27.5376	101.4043	8714.0684	9.2585	13.8711	628.2166	17439.6030	50.7118	2.6497	2.163
L41	27.5376	101.4043	8714.0684	9.2585	13.8711	628.2166	17439.6030	50.7118	2.6497	2.163
L42	27.5966	101.6301	8772.3950	9.2791	13.9006	631.0797	17556.3328	50.8247	2.6600	2.171
L43	27.6081	95.6816	8306.4029	9.3058	13.9006	597.5565	16623.7355	47.8499	2.7920	2.428

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	It/Q in ²	w in	w/t
L26	28.7872	99.9200	9459.8771	9.7180	14.4905	652.8332	18932.2017	49.9695	2.9963	2.606
	28.7949	95.7502	9098.2507	9.7357	14.4905	627.8771	18208.4730	47.8842	3.0843	2.804
	29.9740	99.8044	10303.5606	10.1480	15.0804	683.2429	20620.6789	49.9117	3.2887	2.99
L27	29.9740	99.8044	10303.5606	10.1480	15.0804	683.2429	20620.6789	49.9117	3.2887	2.99
	31.1461	103.8342	11602.7237	10.5577	15.6667	740.5969	23220.7146	51.9270	3.4918	3.174
L28	30.6335	101.7274	10203.1530	10.0025	14.8913	685.1771	20419.7316	50.8734	3.1572	2.776
	30.8696	106.2761	11633.9482	10.4497	15.5313	749.0656	23283.2047	53.1481	3.3789	2.97
L29	30.8734	104.0286	11407.2725	10.4586	15.5313	734.4708	22829.5549	52.0242	3.4229	3.077
	32.0536	108.1326	12811.2989	10.8712	16.1217	794.6618	25639.4552	54.0766	3.6275	3.261
L30	32.0574	105.7889	12554.1010	10.8801	16.1217	778.7082	25124.7210	52.9045	3.6715	3.376
	32.8316	108.4206	13514.5259	11.1507	16.5090	818.6149	27046.8345	54.2206	3.8057	3.499
L31	32.8316	108.4206	13514.5259	11.1507	16.5090	818.6149	27046.8345	54.2206	3.8057	3.499
	32.8906	108.6212	13589.6738	11.1714	16.5385	821.6974	27197.2293	54.3209	3.8159	3.509
L32	32.8984	103.7918	13026.7584	11.1891	16.5385	787.6609	26070.6577	51.9058	3.9039	3.763
	34.0785	107.6191	14521.6280	11.6017	17.1290	847.7824	29062.3638	53.8198	4.1084	3.96
L33	34.0824	105.1062	14204.2570	11.6106	17.1290	829.2540	28427.2043	52.5631	4.1524	4.101
	35.2626	108.8413	15773.0034	12.0232	17.7194	890.1556	31566.7613	54.4310	4.3570	4.303
L34	35.2664	106.2322	15417.6380	12.0321	17.7194	870.1004	30855.5630	53.1262	4.4010	4.457
	36.4466	109.8750	17058.7265	12.4447	18.3098	931.6720	34139.8993	54.9480	4.6056	4.664
L35	36.4504	107.1698	16662.4580	12.4535	18.3098	910.0296	33346.8410	53.5951	4.6496	4.831
	37.5126	110.3653	18197.8564	12.8249	18.8412	965.8556	36419.6580	55.1932	4.8337	5.022
L36	37.5049	115.9379	19063.8254	12.8071	18.8412	1011.8172	38152.7354	57.9800	4.7457	4.687
	37.5639	116.1247	19156.0984	12.8278	18.8707	1015.1240	38337.4028	58.0734	4.7559	4.697
L37	37.5678	113.3358	18721.9133	12.8366	18.8707	992.1156	37468.4614	56.6786	4.7999	4.861
	38.7479	116.9786	20585.8471	13.2492	19.4611	1057.7937	41198.7817	58.5004	5.0044	5.068
L38	38.7518	114.0935	20105.0345	13.2581	19.4611	1033.0874	40236.5237	57.0576	5.0484	5.245
	39.5189	116.4014	21349.9478	13.5263	19.8449	1075.8410	42727.9884	58.2118	5.1814	5.383
L39	39.5189	116.4014	21349.9478	13.5263	19.8449	1075.8410	42727.9884	58.2118	5.1814	5.383
	39.5779	116.5789	21447.7835	13.5469	19.8744	1079.1657	42923.7885	58.3005	5.1916	5.394
L40	39.5779	116.5789	21447.7835	13.5469	19.8744	1079.1657	42923.7885	58.3005	5.1916	5.394
	39.8541	117.4098	21909.6284	13.6435	20.0126	1094.7933	43848.0860	58.7160	5.2395	5.444
L41	39.8309	135.1778	25028.7543	13.5902	20.0126	1250.6517	50090.4421	67.6017	4.9755	4.472
	39.8899	135.3830	25142.9077	13.6109	20.0421	1254.5052	50318.8991	67.7043	4.9857	4.482
L42	39.8899	135.3830	25142.9077	13.6109	20.0421	1254.5052	50318.8991	67.7043	4.9857	4.482
	40.2440	136.6141	25835.1244	13.7346	20.2192	1277.7510	51704.2433	68.3201	5.0471	4.537
L43	40.2440	136.6141	25835.1244	13.7346	20.2192	1277.7510	51704.2433	68.3201	5.0471	4.537
	40.3030	136.8193	25951.7148	13.7553	20.2487	1281.6460	51937.5775	68.4227	5.0573	4.546
L44	40.3069	133.8310	25417.6658	13.7641	20.2487	1255.2716	50868.7768	66.9282	5.1013	4.691
	41.2109	136.9040	27209.0823	14.0802	20.7010	1314.3849	54453.9669	68.4650	5.2580	4.835

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A _r	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
ft	ft ²	in					in	in	in
L1 135.00-130.00				1	1	1			
L2 130.00-125.00				1	1	1			
L3 125.00-120.00				1	1	1			
L4 120.00-115.00				1	1	1			
L5 115.00-110.50				1	1	1			
L6 110.50-110.00				1	1	1			
L7 110.00-109.75				1	1	0.781045			
L8 109.75-104.75				1	1	0.81513			
L9 104.75-99.75				1	1	0.824637			
L10 99.75-94.75				1	1	0.841586			
L11 94.75-90.92				1	1	0.858905			
L12 90.92-90.67				1	1	0.816426			
L13 90.67-83.08				1	1	0.833857			
L14 83.08-81.41				1	1	0.852305			
L15 81.41-76.41				1	1	0.860274			
L16 76.41-74.50				1	1	0.862484			
L17 74.50-74.25				1	1	0.816702			
L18 74.25-70.58				1	1	0.841228			
L19 70.58-70.33				1	1	0.839678			
L20 70.33-66.33				1	1	0.84962			
L21 66.33-66.08				1	1	0.828761			
L22 66.08-61.08				1	1	0.846584			
L23 61.08-60.00				1	1	0.840405			
L24 60.00-59.75				1	1	0.838992			

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adj. Factor A_r	Adj. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
ft	ft ²	in					in	in	in
L25 59.75-54.75				1	1	0.862572			
L26 54.75-49.75				1	1	0.872803			
L27 49.75-44.78				1	1	0.869931			
L28 44.78-43.78				1	1	0.882299			
L29 43.78-38.78				1	1	0.877812			
L30 38.78-35.50				1	1	0.882455			
L31 35.50-35.25				1	1	0.881356			
L32 35.25-30.25				1	1	0.900275			
L33 30.25-25.25				1	1	0.900758			
L34 25.25-20.25				1	1	0.902775			
L35 20.25-15.75				1	1	0.908165			
L36 15.75-15.50				1	1	0.949737			
L37 15.50-10.50				1	1	0.952659			
L38 10.50-7.25				1	1	0.96382			
L39 7.25-7.00				1	1	0.946763			
L40 7.00-5.83				1	1	0.942361			
L41 5.83-5.58				1	1	0.891548			
L42 5.58-4.08				1	1	0.886044			
L43 4.08-3.83				1	1	0.871432			
L44 3.83-0.00				1	1	0.877343			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter r in	Perimeter r in	Weight p/f

Safety Line 3/8"	C	No	Surface Ar (CaAa)	135.00 - 10.00	1	1	0.000 0.000	0.3750		0.22
Step Pegs	C	No	Surface Ar (CaAa)	135.00 - 10.00	1	1	-0.050 0.050	0.7050		1.80

FB-L98B-034-XXX(3/8)	C	No	Surface Ar (CaAa)	125.00 - 6.00	2	2	-0.290 -0.250	0.3937		0.06
WR-VG86ST-BRDA(7/8)	C	No	Surface Ar (CaAa)	125.00 - 6.00	5	5	-0.250 -0.150	0.8800		0.68

FXL 780 PE(7/8)	C	No	Surface Ar (CaAa)	111.00 - 6.00	6	6	-0.400 -0.150	1.0900		0.25

HCS 6X12 6AWG(1-3/8)	C	No	Surface Ar (CaAa)	111.00 - 6.00	1	1	-0.130 -0.130	1.3800		1.70

CCI-085125 (L)	B	No	Surface Af (CaAa)	70.58 - 0.00	1	1	0.167 0.167	8.5000	19.5000	0.00
CCI-085125 (L)	A	No	Surface Af (CaAa)	70.58 - 0.00	1	1	0.167 0.167	8.5000	19.5000	0.00
CCI-085125 (L)	C	No	Surface Af (CaAa)	70.58 - 0.00	1	1	0.167 0.167	8.5000	19.5000	0.00
CCI-085125 (L)	C	No	Surface Af (CaAa)	95.56 - 0.00	1	1	-0.167 -0.167	8.5000	19.5000	0.00
CCI-085125 (L)	B	No	Surface Af (CaAa)	95.56 - 0.00	1	1	-0.167 -0.167	8.5000	19.5000	0.00
CCI-085125 (L)	A	No	Surface Af (CaAa)	95.56 - 0.00	1	1	-0.167 -0.167	8.5000	19.5000	0.00
**										
CCI-065125 (L)	B	No	Surface Af (CaAa)	77.25 - 70.58	1	1	0.167 0.167	6.5000	15.5000	0.00
CCI-065125 (L)	A	No	Surface Af (CaAa)	77.25 - 70.58	1	1	0.167 0.167	6.5000	15.5000	0.00
CCI-065125 (L)	C	No	Surface Af (CaAa)	77.25 - 70.58	1	1	0.167 0.167	6.5000	15.5000	0.00
CCI-065125 (L)	C	No	Surface Af (CaAa)	109.75 - 95.75	1	1	-0.167	6.5000	15.5000	0.00

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter r in	Perimeter r in	Weight plf
CCI-065125 (L)	B	No	(CaAa) Surface Af (CaAa)	109.75 - 95.75	1	1	-0.167 -0.167	6.5000	15.5000	0.00
CCI-065125 (L)	A	No	Surface Af (CaAa)	109.75 - 95.75	1	1	-0.167 -0.167	6.5000	15.5000	0.00
**										
CCI-045100 (L)	C	No	Surface Af (CaAa)	61.50 - 46.50	1	1	-0.500 -0.500	4.5000	11.0000	0.00
CCI-045100 (L)	B	No	Surface Af (CaAa)	61.50 - 46.50	1	1	-0.500 -0.500	4.5000	11.0000	0.00
CCI-045100 (L)	A	No	Surface Af (CaAa)	61.50 - 46.50	1	1	-0.500 -0.500	4.5000	11.0000	0.00

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C _{AA} ft ² /ft	Weight plf

LDF4-50A(1/2)	A	No	No	Inside Pole	135.00 - 6.00	6	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.15 0.15 0.15
LDF5-50A(7/8)	A	No	No	Inside Pole	135.00 - 6.00	8	2" Ice No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00 0.00	0.15 0.33 0.33 0.33

HB114-08U3M12-XXXF(7/8)	C	No	No	Inside Pole	97.00 - 6.00	1	2" Ice No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00 0.00	1.30 0.68 0.68 0.68
HB114-1-08U4-M5F(1-1/4)	C	No	No	Inside Pole	97.00 - 6.00	3	2" Ice No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00 0.00	1.30 1.30 1.30 1.30

FLC 158-50J(1-5/8)	A	No	No	Inside Pole	87.00 - 6.00	12	2" Ice No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00 0.00	0.92 0.92 0.92 0.92
HB158-1-08U8-S8J18(1-5/8)	A	No	No	Inside Pole	87.00 - 6.00	2	2" Ice No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00 0.00	1.30 1.30 1.30 1.30

FLC 12-50J(1/2)	C	No	No	Inside Pole	75.00 - 6.00	1	2" Ice No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00 0.00	0.17 0.17 0.17 0.17

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight K
L1	135.00-130.00	A	0.000	0.000	0.000	0.000	0.02
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.540	0.000	0.01

Tower Sectio n	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
L2	130.00-125.00	A	0.000	0.000	0.000	0.000	0.02
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.540	0.000	0.01
L3	125.00-120.00	A	0.000	0.000	0.000	0.000	0.02
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	3.134	0.000	0.03
L4	120.00-115.00	A	0.000	0.000	0.000	0.000	0.02
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	3.134	0.000	0.03
L5	115.00-110.50	A	0.000	0.000	0.000	0.000	0.02
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	3.216	0.000	0.03
L6	110.50-110.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.709	0.000	0.00
L7	110.00-109.75	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	0.355	0.000	0.00
L8	109.75-104.75	A	0.000	0.000	5.417	0.000	0.02
		B	0.000	0.000	5.417	0.000	0.00
		C	0.000	0.000	12.510	0.000	0.04
L9	104.75-99.75	A	0.000	0.000	5.417	0.000	0.02
		B	0.000	0.000	5.417	0.000	0.00
		C	0.000	0.000	12.510	0.000	0.04
L10	99.75-94.75	A	0.000	0.000	5.481	0.000	0.02
		B	0.000	0.000	5.481	0.000	0.00
		C	0.000	0.000	12.575	0.000	0.05
L11	94.75-90.92	A	0.000	0.000	5.426	0.000	0.01
		B	0.000	0.000	5.426	0.000	0.00
		C	0.000	0.000	10.860	0.000	0.05
L12	90.92-90.67	A	0.000	0.000	0.354	0.000	0.00
		B	0.000	0.000	0.354	0.000	0.00
		C	0.000	0.000	0.709	0.000	0.00
L13	90.67-83.08	A	0.000	0.000	10.753	0.000	0.08
		B	0.000	0.000	10.753	0.000	0.00
		C	0.000	0.000	21.521	0.000	0.10
L14	83.08-81.41	A	0.000	0.000	2.366	0.000	0.03
		B	0.000	0.000	2.366	0.000	0.00
		C	0.000	0.000	4.735	0.000	0.02
L15	81.41-76.41	A	0.000	0.000	7.797	0.000	0.09
		B	0.000	0.000	7.797	0.000	0.00
		C	0.000	0.000	14.891	0.000	0.07
L16	76.41-74.50	A	0.000	0.000	4.330	0.000	0.03
		B	0.000	0.000	4.330	0.000	0.00
		C	0.000	0.000	7.039	0.000	0.03
L17	74.50-74.25	A	0.000	0.000	0.567	0.000	0.00
		B	0.000	0.000	0.567	0.000	0.00
		C	0.000	0.000	0.921	0.000	0.00
L18	74.25-70.58	A	0.000	0.000	8.321	0.000	0.06
		B	0.000	0.000	8.321	0.000	0.00
		C	0.000	0.000	13.528	0.000	0.05
L19	70.58-70.33	A	0.000	0.000	0.708	0.000	0.00
		B	0.000	0.000	0.708	0.000	0.00
		C	0.000	0.000	1.063	0.000	0.00
L20	70.33-66.33	A	0.000	0.000	11.333	0.000	0.07
		B	0.000	0.000	11.333	0.000	0.00
		C	0.000	0.000	17.008	0.000	0.05
L21	66.33-66.08	A	0.000	0.000	0.708	0.000	0.00
		B	0.000	0.000	0.708	0.000	0.00
		C	0.000	0.000	1.063	0.000	0.00
L22	66.08-61.08	A	0.000	0.000	14.482	0.000	0.09
		B	0.000	0.000	14.482	0.000	0.00
		C	0.000	0.000	21.575	0.000	0.07
L23	61.08-60.00	A	0.000	0.000	3.870	0.000	0.02
		B	0.000	0.000	3.870	0.000	0.00
		C	0.000	0.000	5.402	0.000	0.01
L24	60.00-59.75	A	0.000	0.000	0.896	0.000	0.00
		B	0.000	0.000	0.896	0.000	0.00
		C	0.000	0.000	1.251	0.000	0.00

Tower Section	Tower Elevation	Face	A _R	A _F	C _A A _A In Face	C _A A _A Out Face	Weight
n	ft		ft ²	ft ²	ft ²	ft ²	K
L25	59.75-54.75	A	0.000	0.000	17.917	0.000	0.09
		B	0.000	0.000	17.917	0.000	0.00
		C	0.000	0.000	25.010	0.000	0.07
L26	54.75-49.75	A	0.000	0.000	17.917	0.000	0.09
		B	0.000	0.000	17.917	0.000	0.00
		C	0.000	0.000	25.010	0.000	0.07
L27	49.75-44.78	A	0.000	0.000	16.519	0.000	0.09
		B	0.000	0.000	16.519	0.000	0.00
		C	0.000	0.000	23.570	0.000	0.07
L28	44.78-43.78	A	0.000	0.000	2.833	0.000	0.02
		B	0.000	0.000	2.833	0.000	0.00
		C	0.000	0.000	4.252	0.000	0.01
L29	43.78-38.78	A	0.000	0.000	14.167	0.000	0.09
		B	0.000	0.000	14.167	0.000	0.00
		C	0.000	0.000	21.260	0.000	0.07
L30	38.78-35.50	A	0.000	0.000	9.293	0.000	0.06
		B	0.000	0.000	9.293	0.000	0.00
		C	0.000	0.000	13.947	0.000	0.04
L31	35.50-35.25	A	0.000	0.000	0.708	0.000	0.00
		B	0.000	0.000	0.708	0.000	0.00
		C	0.000	0.000	1.063	0.000	0.00
L32	35.25-30.25	A	0.000	0.000	14.167	0.000	0.09
		B	0.000	0.000	14.167	0.000	0.00
		C	0.000	0.000	21.260	0.000	0.07
L33	30.25-25.25	A	0.000	0.000	14.167	0.000	0.09
		B	0.000	0.000	14.167	0.000	0.00
		C	0.000	0.000	21.260	0.000	0.07
L34	25.25-20.25	A	0.000	0.000	14.167	0.000	0.09
		B	0.000	0.000	14.167	0.000	0.00
		C	0.000	0.000	21.260	0.000	0.07
L35	20.25-15.75	A	0.000	0.000	12.750	0.000	0.08
		B	0.000	0.000	12.750	0.000	0.00
		C	0.000	0.000	19.134	0.000	0.06
L36	15.75-15.50	A	0.000	0.000	0.708	0.000	0.00
		B	0.000	0.000	0.708	0.000	0.00
		C	0.000	0.000	1.063	0.000	0.00
L37	15.50-10.50	A	0.000	0.000	14.167	0.000	0.09
		B	0.000	0.000	14.167	0.000	0.00
		C	0.000	0.000	21.260	0.000	0.07
L38	10.50-7.25	A	0.000	0.000	9.208	0.000	0.06
		B	0.000	0.000	9.208	0.000	0.00
		C	0.000	0.000	13.522	0.000	0.04
L39	7.25-7.00	A	0.000	0.000	0.708	0.000	0.00
		B	0.000	0.000	0.708	0.000	0.00
		C	0.000	0.000	1.036	0.000	0.00
L40	7.00-5.83	A	0.000	0.000	3.315	0.000	0.02
		B	0.000	0.000	3.315	0.000	0.00
		C	0.000	0.000	4.626	0.000	0.01
L41	5.83-5.58	A	0.000	0.000	0.708	0.000	0.00
		B	0.000	0.000	0.708	0.000	0.00
		C	0.000	0.000	0.708	0.000	0.00
L42	5.58-4.08	A	0.000	0.000	4.250	0.000	0.00
		B	0.000	0.000	4.250	0.000	0.00
		C	0.000	0.000	4.250	0.000	0.00
L43	4.08-3.83	A	0.000	0.000	0.708	0.000	0.00
		B	0.000	0.000	0.708	0.000	0.00
		C	0.000	0.000	0.708	0.000	0.00
L44	3.83-0.00	A	0.000	0.000	10.852	0.000	0.00
		B	0.000	0.000	10.852	0.000	0.00
		C	0.000	0.000	10.852	0.000	0.00

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Sectio n	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft ²	A_F ft ²	C_{AA} In Face ft ²	C_{AA} Out Face ft ²	Weight K
L1	135.00-130.00	A	1.465	0.000	0.000	0.000	0.000	0.02
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	3.470	0.000	0.05
L2	130.00-125.00	A	1.460	0.000	0.000	0.000	0.000	0.02
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	3.459	0.000	0.05
L3	125.00-120.00	A	1.454	0.000	0.000	0.000	0.000	0.02
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	10.324	0.000	0.12
L4	120.00-115.00	A	1.448	0.000	0.000	0.000	0.000	0.02
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	10.297	0.000	0.12
L5	115.00-110.50	A	1.442	0.000	0.000	0.000	0.000	0.02
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	10.045	0.000	0.12
L6	110.50-110.00	A	1.438	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	1.827	0.000	0.02
L7	110.00-109.75	A	1.438	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	0.913	0.000	0.01
L8	109.75-104.75	A	1.434	0.000	0.000	6.206	0.000	0.08
		B		0.000	0.000	6.206	0.000	0.06
		C		0.000	0.000	24.449	0.000	0.28
L9	104.75-99.75	A	1.428	0.000	0.000	6.203	0.000	0.08
		B		0.000	0.000	6.203	0.000	0.06
		C		0.000	0.000	24.399	0.000	0.27
L10	99.75-94.75	A	1.420	0.000	0.000	6.337	0.000	0.07
		B		0.000	0.000	6.337	0.000	0.06
		C		0.000	0.000	24.485	0.000	0.28
L11	94.75-90.92	A	1.414	0.000	0.000	6.509	0.000	0.07
		B		0.000	0.000	6.509	0.000	0.05
		C		0.000	0.000	20.376	0.000	0.23
L12	90.92-90.67	A	1.411	0.000	0.000	0.425	0.000	0.00
		B		0.000	0.000	0.425	0.000	0.00
		C		0.000	0.000	1.329	0.000	0.02
L13	90.67-83.08	A	1.405	0.000	0.000	12.885	0.000	0.18
		B		0.000	0.000	12.885	0.000	0.10
		C		0.000	0.000	40.269	0.000	0.46
L14	83.08-81.41	A	1.397	0.000	0.000	2.835	0.000	0.05
		B		0.000	0.000	2.835	0.000	0.02
		C		0.000	0.000	8.860	0.000	0.10
L15	81.41-76.41	A	1.391	0.000	0.000	9.315	0.000	0.16
		B		0.000	0.000	9.315	0.000	0.08
		C		0.000	0.000	27.265	0.000	0.31
L16	76.41-74.50	A	1.385	0.000	0.000	5.146	0.000	0.08
		B		0.000	0.000	5.146	0.000	0.05
		C		0.000	0.000	11.987	0.000	0.14
L17	74.50-74.25	A	1.383	0.000	0.000	0.673	0.000	0.01
		B		0.000	0.000	0.673	0.000	0.01
		C		0.000	0.000	1.568	0.000	0.02
L18	74.25-70.58	A	1.379	0.000	0.000	9.883	0.000	0.15
		B		0.000	0.000	9.883	0.000	0.09
		C		0.000	0.000	22.999	0.000	0.26
L19	70.58-70.33	A	1.375	0.000	0.000	0.846	0.000	0.01
		B		0.000	0.000	0.846	0.000	0.01
		C		0.000	0.000	1.738	0.000	0.02
L20	70.33-66.33	A	1.371	0.000	0.000	13.527	0.000	0.17
		B		0.000	0.000	13.527	0.000	0.11
		C		0.000	0.000	27.780	0.000	0.29
L21	66.33-66.08	A	1.367	0.000	0.000	0.845	0.000	0.01
		B		0.000	0.000	0.845	0.000	0.01
		C		0.000	0.000	1.734	0.000	0.02
L22	66.08-61.08	A	1.361	0.000	0.000	17.319	0.000	0.22
		B		0.000	0.000	17.319	0.000	0.13
		C		0.000	0.000	35.068	0.000	0.36

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft ²	A_F ft ²	C_{AA} In Face ft ²	C_{AA} Out Face ft ²	Weight K
L23	61.08-60.00	A	1.355	0.000	0.000	4.748	0.000	0.06
		B		0.000	0.000	4.748	0.000	0.04
		C		0.000	0.000	8.572	0.000	0.09
L24	60.00-59.75	A	1.353	0.000	0.000	1.099	0.000	0.01
		B		0.000	0.000	1.099	0.000	0.01
		C		0.000	0.000	1.983	0.000	0.02
L25	59.75-54.75	A	1.347	0.000	0.000	21.958	0.000	0.26
		B		0.000	0.000	21.958	0.000	0.17
		C		0.000	0.000	39.611	0.000	0.40
L26	54.75-49.75	A	1.335	0.000	0.000	21.921	0.000	0.26
		B		0.000	0.000	21.921	0.000	0.17
		C		0.000	0.000	39.492	0.000	0.39
L27	49.75-44.78	A	1.322	0.000	0.000	20.006	0.000	0.24
		B		0.000	0.000	20.006	0.000	0.15
		C		0.000	0.000	37.381	0.000	0.37
L28	44.78-43.78	A	1.313	0.000	0.000	3.362	0.000	0.04
		B		0.000	0.000	3.362	0.000	0.03
		C		0.000	0.000	6.858	0.000	0.07
L29	43.78-38.78	A	1.304	0.000	0.000	16.774	0.000	0.21
		B		0.000	0.000	16.774	0.000	0.12
		C		0.000	0.000	34.135	0.000	0.34
L30	38.78-35.50	A	1.290	0.000	0.000	10.986	0.000	0.14
		B		0.000	0.000	10.986	0.000	0.08
		C		0.000	0.000	22.314	0.000	0.22
L31	35.50-35.25	A	1.284	0.000	0.000	0.837	0.000	0.01
		B		0.000	0.000	0.837	0.000	0.01
		C		0.000	0.000	1.698	0.000	0.02
L32	35.25-30.25	A	1.274	0.000	0.000	16.715	0.000	0.21
		B		0.000	0.000	16.715	0.000	0.12
		C		0.000	0.000	33.874	0.000	0.34
L33	30.25-25.25	A	1.253	0.000	0.000	16.673	0.000	0.20
		B		0.000	0.000	16.673	0.000	0.12
		C		0.000	0.000	33.690	0.000	0.33
L34	25.25-20.25	A	1.228	0.000	0.000	16.623	0.000	0.20
		B		0.000	0.000	16.623	0.000	0.12
		C		0.000	0.000	33.475	0.000	0.32
L35	20.25-15.75	A	1.200	0.000	0.000	14.910	0.000	0.18
		B		0.000	0.000	14.910	0.000	0.10
		C		0.000	0.000	29.903	0.000	0.28
L36	15.75-15.50	A	1.183	0.000	0.000	0.827	0.000	0.01
		B		0.000	0.000	0.827	0.000	0.01
		C		0.000	0.000	1.654	0.000	0.02
L37	15.50-10.50	A	1.161	0.000	0.000	16.490	0.000	0.19
		B		0.000	0.000	16.490	0.000	0.11
		C		0.000	0.000	32.889	0.000	0.31
L38	10.50-7.25	A	1.118	0.000	0.000	10.662	0.000	0.12
		B		0.000	0.000	10.662	0.000	0.07
		C		0.000	0.000	19.604	0.000	0.17
L39	7.25-7.00	A	1.094	0.000	0.000	0.818	0.000	0.01
		B		0.000	0.000	0.818	0.000	0.01
		C		0.000	0.000	1.478	0.000	0.01
L40	7.00-5.83	A	1.082	0.000	0.000	3.822	0.000	0.04
		B		0.000	0.000	3.822	0.000	0.02
		C		0.000	0.000	6.454	0.000	0.05
L41	5.83-5.58	A	1.070	0.000	0.000	0.815	0.000	0.00
		B		0.000	0.000	0.815	0.000	0.00
		C		0.000	0.000	0.815	0.000	0.00
L42	5.58-4.08	A	1.052	0.000	0.000	4.881	0.000	0.03
		B		0.000	0.000	4.881	0.000	0.03
		C		0.000	0.000	4.881	0.000	0.03
L43	4.08-3.83	A	1.031	0.000	0.000	0.811	0.000	0.00
		B		0.000	0.000	0.811	0.000	0.00
		C		0.000	0.000	0.811	0.000	0.00
L44	3.83-0.00	A	0.959	0.000	0.000	12.321	0.000	0.07
		B		0.000	0.000	12.321	0.000	0.07
		C		0.000	0.000	12.321	0.000	0.07

Feed Line Center of Pressure

Section	Elevation	CP _x	CP _z	CP _x	CP _z
	ft	in	in	Ice in	Ice in
L1	135.00-130.00	0.0000	0.9867	0.0000	2.2197
L2	130.00-125.00	0.0000	0.9867	0.0000	2.2154
L3	125.00-120.00	1.3011	3.3877	1.0666	3.2931
L4	120.00-115.00	1.3011	3.3877	1.0663	3.2910
L5	115.00-110.50	1.4724	3.6194	1.1592	3.4010
L6	110.50-110.00	2.3538	4.8114	1.6784	4.0250
L7	110.00-109.75	2.1794	4.4549	1.6780	4.0239
L8	109.75-104.75	0.8472	1.7319	1.1176	2.6798
L9	104.75-99.75	0.8893	1.8181	1.1808	2.8306
L10	99.75-94.75	0.9240	1.8893	1.2327	2.9542
L11	94.75-90.92	0.8331	1.7035	1.1453	2.7439
L12	90.92-90.67	0.8466	1.7311	1.1665	2.7941
L13	90.67-83.08	0.8738	1.7869	1.2084	2.8936
L14	83.08-81.41	0.8939	1.8279	1.2402	2.9699
L15	81.41-76.41	0.8674	1.7739	1.2225	2.9253
L16	76.41-74.50	0.7057	1.4431	1.0495	2.5104
L17	74.50-74.25	0.7085	1.4488	1.0552	2.5237
L18	74.25-70.58	0.7192	1.4708	1.0719	2.5632
L19	70.58-70.33	0.6282	1.2847	0.9593	2.2934
L20	70.33-66.33	0.6383	1.3054	0.9753	2.3310
L21	66.33-66.08	0.6474	1.3241	0.9900	2.3655
L22	66.08-61.08	0.6498	1.3291	0.9950	2.3766
L23	61.08-60.00	0.5702	1.1662	0.8791	2.0991
L24	60.00-59.75	0.5729	1.1717	0.8833	2.1089
L25	59.75-54.75	0.5839	1.1943	0.9004	2.1487
L26	54.75-49.75	0.6041	1.2357	0.9318	2.2220
L27	49.75-44.78	0.6577	1.3453	1.0128	2.4130
L28	44.78-43.78	0.7366	1.5067	1.1306	2.6937
L29	43.78-38.78	0.7497	1.5335	1.1495	2.7352
L30	38.78-35.50	0.7676	1.5701	1.1769	2.7977
L31	35.50-35.25	0.7750	1.5854	1.1883	2.8236
L32	35.25-30.25	0.7864	1.6086	1.2053	2.8622
L33	30.25-25.25	0.8074	1.6516	1.2366	2.9319
L34	25.25-20.25	0.8281	1.6940	1.2665	2.9973
L35	20.25-15.75	0.8475	1.7337	1.2933	3.0543
L36	15.75-15.50	0.9597	1.9633	1.3053	3.0786
L37	15.50-10.50	0.9721	1.9886	1.3176	3.1022
L38	10.50-7.25	0.9987	1.8960	1.3694	2.6961
L39	7.25-7.00	1.0083	1.8873	1.3811	2.6245
L40	7.00-5.83	0.8778	1.6432	1.2186	2.3153
L41	5.83-5.58	0.0000	0.0000	0.0000	0.0000
L42	5.58-4.08	0.0000	0.0000	0.0000	0.0000
L43	4.08-3.83	0.0000	0.0000	0.0000	0.0000
L44	3.83-0.00	0.0000	0.0000	0.0000	0.0000

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 _a No Ice	K _a Ice
L1	2	Safety Line 3/8"	130.00 - 135.00	1.0000	1.0000
L1	3	Step Pegs	130.00 - 135.00	1.0000	1.0000
L2	2	Safety Line 3/8"	125.00 - 130.00	1.0000	1.0000
L2	3	Step Pegs	125.00 - 130.00	1.0000	1.0000
L3	2	Safety Line 3/8"	120.00 - 125.00	1.0000	1.0000
L3	3	Step Pegs	120.00 - 125.00	1.0000	1.0000
L3	8	FB-L98B-034-XXX(3/8)	120.00 - 125.00	1.0000	1.0000
L3	9	WR-VG86ST-BRDA(7/8)	120.00 - 125.00	1.0000	1.0000
L4	2	Safety Line 3/8"	115.00 - 120.00	1.0000	1.0000
L4	3	Step Pegs	115.00 - 120.00	1.0000	1.0000
L4	8	FB-L98B-034-XXX(3/8)	115.00 - 120.00	1.0000	1.0000
L4	9	WR-VG86ST-BRDA(7/8)	115.00 - 120.00	1.0000	1.0000
L5	2	Safety Line 3/8"	110.50 - 115.00	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L5	3	Step Pegs	110.50 - 115.00	1.0000	1.0000
L5	8	FB-L98B-034-XXX(3/8)	110.50 - 115.00	1.0000	1.0000
L5	9	WR-VG86ST-BRDA(7/8)	110.50 - 115.00	1.0000	1.0000
L5	11	FXL 780 PE(7/8)	110.50 - 111.00	1.0000	1.0000
L5	13	HCS 6X12 6AWG(1-3/8)	110.50 - 111.00	1.0000	1.0000
L6	2	Safety Line 3/8"	110.00 - 110.50	1.0000	1.0000
L6	3	Step Pegs	110.00 - 110.50	1.0000	1.0000
L6	8	FB-L98B-034-XXX(3/8)	110.00 - 110.50	1.0000	1.0000
L6	9	WR-VG86ST-BRDA(7/8)	110.00 - 110.50	1.0000	1.0000
L6	11	FXL 780 PE(7/8)	110.00 - 110.50	1.0000	1.0000
L6	13	HCS 6X12 6AWG(1-3/8)	110.00 - 110.50	1.0000	1.0000
L7	2	Safety Line 3/8"	109.75 - 110.00	1.0000	1.0000
L7	3	Step Pegs	109.75 - 110.00	1.0000	1.0000
L7	8	FB-L98B-034-XXX(3/8)	109.75 - 110.00	1.0000	1.0000
L7	9	WR-VG86ST-BRDA(7/8)	109.75 - 110.00	1.0000	1.0000
L7	11	FXL 780 PE(7/8)	109.75 - 110.00	1.0000	1.0000
L7	13	HCS 6X12 6AWG(1-3/8)	109.75 - 110.00	1.0000	1.0000
L8	2	Safety Line 3/8"	104.75 - 109.75	1.0000	1.0000
L8	3	Step Pegs	104.75 - 109.75	1.0000	1.0000
L8	8	FB-L98B-034-XXX(3/8)	104.75 - 109.75	1.0000	1.0000
L8	9	WR-VG86ST-BRDA(7/8)	104.75 - 109.75	1.0000	1.0000
L8	11	FXL 780 PE(7/8)	104.75 - 109.75	1.0000	1.0000
L8	13	HCS 6X12 6AWG(1-3/8)	104.75 - 109.75	1.0000	1.0000
L8	33	CCI-065125 (L)	104.75 - 109.75	1.0000	1.0000
L8	34	CCI-065125 (L)	104.75 - 109.75	1.0000	1.0000
L8	35	CCI-065125 (L)	104.75 - 109.75	1.0000	1.0000
L9	2	Safety Line 3/8"	99.75 - 104.75	1.0000	1.0000
L9	3	Step Pegs	99.75 - 104.75	1.0000	1.0000
L9	8	FB-L98B-034-XXX(3/8)	99.75 - 104.75	1.0000	1.0000
L9	9	WR-VG86ST-BRDA(7/8)	99.75 - 104.75	1.0000	1.0000
L9	11	FXL 780 PE(7/8)	99.75 - 104.75	1.0000	1.0000
L9	13	HCS 6X12 6AWG(1-3/8)	99.75 - 104.75	1.0000	1.0000
L9	33	CCI-065125 (L)	99.75 - 104.75	1.0000	1.0000
L9	34	CCI-065125 (L)	99.75 - 104.75	1.0000	1.0000
L9	35	CCI-065125 (L)	99.75 - 104.75	1.0000	1.0000
L10	2	Safety Line 3/8"	94.75 - 99.75	1.0000	1.0000
L10	3	Step Pegs	94.75 - 99.75	1.0000	1.0000
L10	8	FB-L98B-034-XXX(3/8)	94.75 - 99.75	1.0000	1.0000
L10	9	WR-VG86ST-BRDA(7/8)	94.75 - 99.75	1.0000	1.0000
L10	11	FXL 780 PE(7/8)	94.75 - 99.75	1.0000	1.0000
L10	13	HCS 6X12 6AWG(1-3/8)	94.75 - 99.75	1.0000	1.0000
L10	26	CCI-085125 (L)	94.75 - 95.56	1.0000	1.0000
L10	27	CCI-085125 (L)	94.75 - 95.56	1.0000	1.0000
L10	28	CCI-085125 (L)	94.75 - 95.56	1.0000	1.0000
L10	33	CCI-065125 (L)	95.75 - 99.75	1.0000	1.0000
L10	34	CCI-065125 (L)	95.75 - 99.75	1.0000	1.0000
L10	35	CCI-065125 (L)	95.75 - 99.75	1.0000	1.0000
L11	2	Safety Line 3/8"	90.92 - 94.75	1.0000	1.0000
L11	3	Step Pegs	90.92 - 94.75	1.0000	1.0000
L11	8	FB-L98B-034-XXX(3/8)	90.92 - 94.75	1.0000	1.0000
L11	9	WR-VG86ST-BRDA(7/8)	90.92 - 94.75	1.0000	1.0000
L11	11	FXL 780 PE(7/8)	90.92 - 94.75	1.0000	1.0000
L11	13	HCS 6X12 6AWG(1-3/8)	90.92 - 94.75	1.0000	1.0000
L11	26	CCI-085125 (L)	90.92 - 94.75	1.0000	1.0000
L11	27	CCI-085125 (L)	90.92 - 94.75	1.0000	1.0000
L11	28	CCI-085125 (L)	90.92 - 94.75	1.0000	1.0000
L12	2	Safety Line 3/8"	90.67 - 90.92	1.0000	1.0000
L12	3	Step Pegs	90.67 - 90.92	1.0000	1.0000
L12	8	FB-L98B-034-XXX(3/8)	90.67 - 90.92	1.0000	1.0000
L12	9	WR-VG86ST-BRDA(7/8)	90.67 - 90.92	1.0000	1.0000
L12	11	FXL 780 PE(7/8)	90.67 - 90.92	1.0000	1.0000
L12	13	HCS 6X12 6AWG(1-3/8)	90.67 - 90.92	1.0000	1.0000
L12	26	CCI-085125 (L)	90.67 - 90.92	1.0000	1.0000
L12	27	CCI-085125 (L)	90.67 - 90.92	1.0000	1.0000
L12	28	CCI-085125 (L)	90.67 - 90.92	1.0000	1.0000
L13	2	Safety Line 3/8"	83.08 - 90.67	1.0000	1.0000
L13	3	Step Pegs	83.08 - 90.67	1.0000	1.0000
L13	8	FB-L98B-034-XXX(3/8)	83.08 - 90.67	1.0000	1.0000
L13	9	WR-VG86ST-BRDA(7/8)	83.08 - 90.67	1.0000	1.0000
L13	11	FXL 780 PE(7/8)	83.08 - 90.67	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L13	13	HCS 6X12 6AWG(1-3/8)	83.08 - 90.67	1.0000	1.0000
L13	26	CCI-085125 (L)	83.08 - 90.67	1.0000	1.0000
L13	27	CCI-085125 (L)	83.08 - 90.67	1.0000	1.0000
L13	28	CCI-085125 (L)	83.08 - 90.67	1.0000	1.0000
L14	2	Safety Line 3/8"	81.41 - 83.08	1.0000	1.0000
L14	3	Step Pegs	81.41 - 83.08	1.0000	1.0000
L14	8	FB-L98B-034-XXX(3/8)	81.41 - 83.08	1.0000	1.0000
L14	9	WR-VG86ST-BRDA(7/8)	81.41 - 83.08	1.0000	1.0000
L14	11	FXL 780 PE(7/8)	81.41 - 83.08	1.0000	1.0000
L14	13	HCS 6X12 6AWG(1-3/8)	81.41 - 83.08	1.0000	1.0000
L14	26	CCI-085125 (L)	81.41 - 83.08	1.0000	1.0000
L14	27	CCI-085125 (L)	81.41 - 83.08	1.0000	1.0000
L14	28	CCI-085125 (L)	81.41 - 83.08	1.0000	1.0000
L15	2	Safety Line 3/8"	76.41 - 81.41	1.0000	1.0000
L15	3	Step Pegs	76.41 - 81.41	1.0000	1.0000
L15	8	FB-L98B-034-XXX(3/8)	76.41 - 81.41	1.0000	1.0000
L15	9	WR-VG86ST-BRDA(7/8)	76.41 - 81.41	1.0000	1.0000
L15	11	FXL 780 PE(7/8)	76.41 - 81.41	1.0000	1.0000
L15	13	HCS 6X12 6AWG(1-3/8)	76.41 - 81.41	1.0000	1.0000
L15	26	CCI-085125 (L)	76.41 - 81.41	1.0000	1.0000
L15	27	CCI-085125 (L)	76.41 - 81.41	1.0000	1.0000
L15	28	CCI-085125 (L)	76.41 - 81.41	1.0000	1.0000
L15	30	CCI-065125 (L)	76.41 - 77.25	1.0000	1.0000
L15	31	CCI-065125 (L)	76.41 - 77.25	1.0000	1.0000
L15	32	CCI-065125 (L)	76.41 - 77.25	1.0000	1.0000
L16	2	Safety Line 3/8"	74.50 - 76.41	1.0000	1.0000
L16	3	Step Pegs	74.50 - 76.41	1.0000	1.0000
L16	8	FB-L98B-034-XXX(3/8)	74.50 - 76.41	1.0000	1.0000
L16	9	WR-VG86ST-BRDA(7/8)	74.50 - 76.41	1.0000	1.0000
L16	11	FXL 780 PE(7/8)	74.50 - 76.41	1.0000	1.0000
L16	13	HCS 6X12 6AWG(1-3/8)	74.50 - 76.41	1.0000	1.0000
L16	26	CCI-085125 (L)	74.50 - 76.41	1.0000	1.0000
L16	27	CCI-085125 (L)	74.50 - 76.41	1.0000	1.0000
L16	28	CCI-085125 (L)	74.50 - 76.41	1.0000	1.0000
L16	30	CCI-065125 (L)	74.50 - 76.41	1.0000	1.0000
L16	31	CCI-065125 (L)	74.50 - 76.41	1.0000	1.0000
L16	32	CCI-065125 (L)	74.50 - 76.41	1.0000	1.0000
L17	2	Safety Line 3/8"	74.25 - 74.50	1.0000	1.0000
L17	3	Step Pegs	74.25 - 74.50	1.0000	1.0000
L17	8	FB-L98B-034-XXX(3/8)	74.25 - 74.50	1.0000	1.0000
L17	9	WR-VG86ST-BRDA(7/8)	74.25 - 74.50	1.0000	1.0000
L17	11	FXL 780 PE(7/8)	74.25 - 74.50	1.0000	1.0000
L17	13	HCS 6X12 6AWG(1-3/8)	74.25 - 74.50	1.0000	1.0000
L17	26	CCI-085125 (L)	74.25 - 74.50	1.0000	1.0000
L17	27	CCI-085125 (L)	74.25 - 74.50	1.0000	1.0000
L17	28	CCI-085125 (L)	74.25 - 74.50	1.0000	1.0000
L17	30	CCI-065125 (L)	74.25 - 74.50	1.0000	1.0000
L17	31	CCI-065125 (L)	74.25 - 74.50	1.0000	1.0000
L17	32	CCI-065125 (L)	74.25 - 74.50	1.0000	1.0000
L18	2	Safety Line 3/8"	70.58 - 74.25	1.0000	1.0000
L18	3	Step Pegs	70.58 - 74.25	1.0000	1.0000
L18	8	FB-L98B-034-XXX(3/8)	70.58 - 74.25	1.0000	1.0000
L18	9	WR-VG86ST-BRDA(7/8)	70.58 - 74.25	1.0000	1.0000
L18	11	FXL 780 PE(7/8)	70.58 - 74.25	1.0000	1.0000
L18	13	HCS 6X12 6AWG(1-3/8)	70.58 - 74.25	1.0000	1.0000
L18	23	CCI-085125 (L)	70.58 - 70.58	1.0000	1.0000
L18	24	CCI-085125 (L)	70.58 - 70.58	1.0000	1.0000
L18	25	CCI-085125 (L)	70.58 - 70.58	1.0000	1.0000
L18	26	CCI-085125 (L)	70.58 - 74.25	1.0000	1.0000
L18	27	CCI-085125 (L)	70.58 - 74.25	1.0000	1.0000
L18	28	CCI-085125 (L)	70.58 - 74.25	1.0000	1.0000
L18	30	CCI-065125 (L)	70.58 - 74.25	1.0000	1.0000
L18	31	CCI-065125 (L)	70.58 - 74.25	1.0000	1.0000
L18	32	CCI-065125 (L)	70.58 - 74.25	1.0000	1.0000
L19	2	Safety Line 3/8"	70.33 - 70.58	1.0000	1.0000
L19	3	Step Pegs	70.33 - 70.58	1.0000	1.0000
L19	8	FB-L98B-034-XXX(3/8)	70.33 - 70.58	1.0000	1.0000
L19	9	WR-VG86ST-BRDA(7/8)	70.33 - 70.58	1.0000	1.0000
L19	11	FXL 780 PE(7/8)	70.33 - 70.58	1.0000	1.0000
L19	13	HCS 6X12 6AWG(1-3/8)	70.33 - 70.58	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L19	23	CCI-085125 (L)	70.33 - 70.58	1.0000	1.0000
L19	24	CCI-085125 (L)	70.33 - 70.58	1.0000	1.0000
L19	25	CCI-085125 (L)	70.33 - 70.58	1.0000	1.0000
L19	26	CCI-085125 (L)	70.33 - 70.58	1.0000	1.0000
L19	27	CCI-085125 (L)	70.33 - 70.58	1.0000	1.0000
L19	28	CCI-085125 (L)	70.33 - 70.58	1.0000	1.0000
L20	2	Safety Line 3/8"	66.33 - 70.33	1.0000	1.0000
L20	3	Step Pegs	66.33 - 70.33	1.0000	1.0000
L20	8	FB-L98B-034-XXX(3/8)	66.33 - 70.33	1.0000	1.0000
L20	9	WR-VG86ST-BRDA(7/8)	66.33 - 70.33	1.0000	1.0000
L20	11	FXL 780 PE(7/8)	66.33 - 70.33	1.0000	1.0000
L20	13	HCS 6X12 6AWG(1-3/8)	66.33 - 70.33	1.0000	1.0000
L20	23	CCI-085125 (L)	66.33 - 70.33	1.0000	1.0000
L20	24	CCI-085125 (L)	66.33 - 70.33	1.0000	1.0000
L20	25	CCI-085125 (L)	66.33 - 70.33	1.0000	1.0000
L20	26	CCI-085125 (L)	66.33 - 70.33	1.0000	1.0000
L20	27	CCI-085125 (L)	66.33 - 70.33	1.0000	1.0000
L20	28	CCI-085125 (L)	66.33 - 70.33	1.0000	1.0000
L21	2	Safety Line 3/8"	66.08 - 66.33	1.0000	1.0000
L21	3	Step Pegs	66.08 - 66.33	1.0000	1.0000
L21	8	FB-L98B-034-XXX(3/8)	66.08 - 66.33	1.0000	1.0000
L21	9	WR-VG86ST-BRDA(7/8)	66.08 - 66.33	1.0000	1.0000
L21	11	FXL 780 PE(7/8)	66.08 - 66.33	1.0000	1.0000
L21	13	HCS 6X12 6AWG(1-3/8)	66.08 - 66.33	1.0000	1.0000
L21	23	CCI-085125 (L)	66.08 - 66.33	1.0000	1.0000
L21	24	CCI-085125 (L)	66.08 - 66.33	1.0000	1.0000
L21	25	CCI-085125 (L)	66.08 - 66.33	1.0000	1.0000
L21	26	CCI-085125 (L)	66.08 - 66.33	1.0000	1.0000
L21	27	CCI-085125 (L)	66.08 - 66.33	1.0000	1.0000
L21	28	CCI-085125 (L)	66.08 - 66.33	1.0000	1.0000
L22	2	Safety Line 3/8"	61.08 - 66.08	1.0000	1.0000
L22	3	Step Pegs	61.08 - 66.08	1.0000	1.0000
L22	8	FB-L98B-034-XXX(3/8)	61.08 - 66.08	1.0000	1.0000
L22	9	WR-VG86ST-BRDA(7/8)	61.08 - 66.08	1.0000	1.0000
L22	11	FXL 780 PE(7/8)	61.08 - 66.08	1.0000	1.0000
L22	13	HCS 6X12 6AWG(1-3/8)	61.08 - 66.08	1.0000	1.0000
L22	23	CCI-085125 (L)	61.08 - 66.08	1.0000	1.0000
L22	24	CCI-085125 (L)	61.08 - 66.08	1.0000	1.0000
L22	25	CCI-085125 (L)	61.08 - 66.08	1.0000	1.0000
L22	26	CCI-085125 (L)	61.08 - 66.08	1.0000	1.0000
L22	27	CCI-085125 (L)	61.08 - 66.08	1.0000	1.0000
L22	28	CCI-085125 (L)	61.08 - 66.08	1.0000	1.0000
L22	37	CCI-045100 (L)	61.08 - 61.50	1.0000	1.0000
L22	38	CCI-045100 (L)	61.08 - 61.50	1.0000	1.0000
L22	39	CCI-045100 (L)	61.08 - 61.50	1.0000	1.0000
L23	2	Safety Line 3/8"	60.00 - 61.08	1.0000	1.0000
L23	3	Step Pegs	60.00 - 61.08	1.0000	1.0000
L23	8	FB-L98B-034-XXX(3/8)	60.00 - 61.08	1.0000	1.0000
L23	9	WR-VG86ST-BRDA(7/8)	60.00 - 61.08	1.0000	1.0000
L23	11	FXL 780 PE(7/8)	60.00 - 61.08	1.0000	1.0000
L23	13	HCS 6X12 6AWG(1-3/8)	60.00 - 61.08	1.0000	1.0000
L23	23	CCI-085125 (L)	60.00 - 61.08	1.0000	1.0000
L23	24	CCI-085125 (L)	60.00 - 61.08	1.0000	1.0000
L23	25	CCI-085125 (L)	60.00 - 61.08	1.0000	1.0000
L23	26	CCI-085125 (L)	60.00 - 61.08	1.0000	1.0000
L23	27	CCI-085125 (L)	60.00 - 61.08	1.0000	1.0000
L23	28	CCI-085125 (L)	60.00 - 61.08	1.0000	1.0000
L23	37	CCI-045100 (L)	60.00 - 61.08	1.0000	1.0000
L23	38	CCI-045100 (L)	60.00 - 61.08	1.0000	1.0000
L23	39	CCI-045100 (L)	60.00 - 61.08	1.0000	1.0000
L24	2	Safety Line 3/8"	59.75 - 60.00	1.0000	1.0000
L24	3	Step Pegs	59.75 - 60.00	1.0000	1.0000
L24	8	FB-L98B-034-XXX(3/8)	59.75 - 60.00	1.0000	1.0000
L24	9	WR-VG86ST-BRDA(7/8)	59.75 - 60.00	1.0000	1.0000
L24	11	FXL 780 PE(7/8)	59.75 - 60.00	1.0000	1.0000
L24	13	HCS 6X12 6AWG(1-3/8)	59.75 - 60.00	1.0000	1.0000
L24	23	CCI-085125 (L)	59.75 - 60.00	1.0000	1.0000
L24	24	CCI-085125 (L)	59.75 - 60.00	1.0000	1.0000
L24	25	CCI-085125 (L)	59.75 - 60.00	1.0000	1.0000
L24	26	CCI-085125 (L)	59.75 - 60.00	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L24	27	CCI-085125 (L)	59.75 - 60.00	1.0000	1.0000
L24	28	CCI-085125 (L)	59.75 - 60.00	1.0000	1.0000
L24	37	CCI-045100 (L)	59.75 - 60.00	1.0000	1.0000
L24	38	CCI-045100 (L)	59.75 - 60.00	1.0000	1.0000
L24	39	CCI-045100 (L)	59.75 - 60.00	1.0000	1.0000
L25	2	Safety Line 3/8"	54.75 - 59.75	1.0000	1.0000
L25	3	Step Pegs	54.75 - 59.75	1.0000	1.0000
L25	8	FB-L98B-034-XXX(3/8)	54.75 - 59.75	1.0000	1.0000
L25	9	WR-VG86ST-BRDA(7/8)	54.75 - 59.75	1.0000	1.0000
L25	11	FXL 780 PE(7/8)	54.75 - 59.75	1.0000	1.0000
L25	13	HCS 6X12 6AWG(1-3/8)	54.75 - 59.75	1.0000	1.0000
L25	23	CCI-085125 (L)	54.75 - 59.75	1.0000	1.0000
L25	24	CCI-085125 (L)	54.75 - 59.75	1.0000	1.0000
L25	25	CCI-085125 (L)	54.75 - 59.75	1.0000	1.0000
L25	26	CCI-085125 (L)	54.75 - 59.75	1.0000	1.0000
L25	27	CCI-085125 (L)	54.75 - 59.75	1.0000	1.0000
L25	28	CCI-085125 (L)	54.75 - 59.75	1.0000	1.0000
L25	37	CCI-045100 (L)	54.75 - 59.75	1.0000	1.0000
L25	38	CCI-045100 (L)	54.75 - 59.75	1.0000	1.0000
L25	39	CCI-045100 (L)	54.75 - 59.75	1.0000	1.0000
L26	2	Safety Line 3/8"	49.75 - 54.75	1.0000	1.0000
L26	3	Step Pegs	49.75 - 54.75	1.0000	1.0000
L26	8	FB-L98B-034-XXX(3/8)	49.75 - 54.75	1.0000	1.0000
L26	9	WR-VG86ST-BRDA(7/8)	49.75 - 54.75	1.0000	1.0000
L26	11	FXL 780 PE(7/8)	49.75 - 54.75	1.0000	1.0000
L26	13	HCS 6X12 6AWG(1-3/8)	49.75 - 54.75	1.0000	1.0000
L26	23	CCI-085125 (L)	49.75 - 54.75	1.0000	1.0000
L26	24	CCI-085125 (L)	49.75 - 54.75	1.0000	1.0000
L26	25	CCI-085125 (L)	49.75 - 54.75	1.0000	1.0000
L26	26	CCI-085125 (L)	49.75 - 54.75	1.0000	1.0000
L26	27	CCI-085125 (L)	49.75 - 54.75	1.0000	1.0000
L26	28	CCI-085125 (L)	49.75 - 54.75	1.0000	1.0000
L26	37	CCI-045100 (L)	49.75 - 54.75	1.0000	1.0000
L26	38	CCI-045100 (L)	49.75 - 54.75	1.0000	1.0000
L26	39	CCI-045100 (L)	49.75 - 54.75	1.0000	1.0000
L27	2	Safety Line 3/8"	44.78 - 49.75	1.0000	1.0000
L27	3	Step Pegs	44.78 - 49.75	1.0000	1.0000
L27	8	FB-L98B-034-XXX(3/8)	44.78 - 49.75	1.0000	1.0000
L27	9	WR-VG86ST-BRDA(7/8)	44.78 - 49.75	1.0000	1.0000
L27	11	FXL 780 PE(7/8)	44.78 - 49.75	1.0000	1.0000
L27	13	HCS 6X12 6AWG(1-3/8)	44.78 - 49.75	1.0000	1.0000
L27	23	CCI-085125 (L)	44.78 - 49.75	1.0000	1.0000
L27	24	CCI-085125 (L)	44.78 - 49.75	1.0000	1.0000
L27	25	CCI-085125 (L)	44.78 - 49.75	1.0000	1.0000
L27	26	CCI-085125 (L)	44.78 - 49.75	1.0000	1.0000
L27	27	CCI-085125 (L)	44.78 - 49.75	1.0000	1.0000
L27	28	CCI-085125 (L)	44.78 - 49.75	1.0000	1.0000
L27	37	CCI-045100 (L)	46.50 - 49.75	1.0000	1.0000
L27	38	CCI-045100 (L)	46.50 - 49.75	1.0000	1.0000
L27	39	CCI-045100 (L)	46.50 - 49.75	1.0000	1.0000
L28	2	Safety Line 3/8"	43.78 - 44.78	1.0000	1.0000
L28	3	Step Pegs	43.78 - 44.78	1.0000	1.0000
L28	8	FB-L98B-034-XXX(3/8)	43.78 - 44.78	1.0000	1.0000
L28	9	WR-VG86ST-BRDA(7/8)	43.78 - 44.78	1.0000	1.0000
L28	11	FXL 780 PE(7/8)	43.78 - 44.78	1.0000	1.0000
L28	13	HCS 6X12 6AWG(1-3/8)	43.78 - 44.78	1.0000	1.0000
L28	23	CCI-085125 (L)	43.78 - 44.78	1.0000	1.0000
L28	24	CCI-085125 (L)	43.78 - 44.78	1.0000	1.0000
L28	25	CCI-085125 (L)	43.78 - 44.78	1.0000	1.0000
L28	26	CCI-085125 (L)	43.78 - 44.78	1.0000	1.0000
L28	27	CCI-085125 (L)	43.78 - 44.78	1.0000	1.0000
L28	28	CCI-085125 (L)	43.78 - 44.78	1.0000	1.0000
L29	2	Safety Line 3/8"	38.78 - 43.78	1.0000	1.0000
L29	3	Step Pegs	38.78 - 43.78	1.0000	1.0000
L29	8	FB-L98B-034-XXX(3/8)	38.78 - 43.78	1.0000	1.0000
L29	9	WR-VG86ST-BRDA(7/8)	38.78 - 43.78	1.0000	1.0000
L29	11	FXL 780 PE(7/8)	38.78 - 43.78	1.0000	1.0000
L29	13	HCS 6X12 6AWG(1-3/8)	38.78 - 43.78	1.0000	1.0000
L29	23	CCI-085125 (L)	38.78 - 43.78	1.0000	1.0000
L29	24	CCI-085125 (L)	38.78 - 43.78	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L29	25	CCI-085125 (L)	38.78 - 43.78	1.0000	1.0000
L29	26	CCI-085125 (L)	38.78 - 43.78	1.0000	1.0000
L29	27	CCI-085125 (L)	38.78 - 43.78	1.0000	1.0000
L29	28	CCI-085125 (L)	38.78 - 43.78	1.0000	1.0000
L30	2	Safety Line 3/8"	35.50 - 38.78	1.0000	1.0000
L30	3	Step Pegs	35.50 - 38.78	1.0000	1.0000
L30	8	FB-L98B-034-XXX(3/8)	35.50 - 38.78	1.0000	1.0000
L30	9	WR-VG86ST-BRDA(7/8)	35.50 - 38.78	1.0000	1.0000
L30	11	FXL 780 PE(7/8)	35.50 - 38.78	1.0000	1.0000
L30	13	HCS 6X12 6AWG(1-3/8)	35.50 - 38.78	1.0000	1.0000
L30	23	CCI-085125 (L)	35.50 - 38.78	1.0000	1.0000
L30	24	CCI-085125 (L)	35.50 - 38.78	1.0000	1.0000
L30	25	CCI-085125 (L)	35.50 - 38.78	1.0000	1.0000
L30	26	CCI-085125 (L)	35.50 - 38.78	1.0000	1.0000
L30	27	CCI-085125 (L)	35.50 - 38.78	1.0000	1.0000
L30	28	CCI-085125 (L)	35.50 - 38.78	1.0000	1.0000
L31	2	Safety Line 3/8"	35.25 - 35.50	1.0000	1.0000
L31	3	Step Pegs	35.25 - 35.50	1.0000	1.0000
L31	8	FB-L98B-034-XXX(3/8)	35.25 - 35.50	1.0000	1.0000
L31	9	WR-VG86ST-BRDA(7/8)	35.25 - 35.50	1.0000	1.0000
L31	11	FXL 780 PE(7/8)	35.25 - 35.50	1.0000	1.0000
L31	13	HCS 6X12 6AWG(1-3/8)	35.25 - 35.50	1.0000	1.0000
L31	23	CCI-085125 (L)	35.25 - 35.50	1.0000	1.0000
L31	24	CCI-085125 (L)	35.25 - 35.50	1.0000	1.0000
L31	25	CCI-085125 (L)	35.25 - 35.50	1.0000	1.0000
L31	26	CCI-085125 (L)	35.25 - 35.50	1.0000	1.0000
L31	27	CCI-085125 (L)	35.25 - 35.50	1.0000	1.0000
L31	28	CCI-085125 (L)	35.25 - 35.50	1.0000	1.0000
L32	2	Safety Line 3/8"	30.25 - 35.25	1.0000	1.0000
L32	3	Step Pegs	30.25 - 35.25	1.0000	1.0000
L32	8	FB-L98B-034-XXX(3/8)	30.25 - 35.25	1.0000	1.0000
L32	9	WR-VG86ST-BRDA(7/8)	30.25 - 35.25	1.0000	1.0000
L32	11	FXL 780 PE(7/8)	30.25 - 35.25	1.0000	1.0000
L32	13	HCS 6X12 6AWG(1-3/8)	30.25 - 35.25	1.0000	1.0000
L32	23	CCI-085125 (L)	30.25 - 35.25	1.0000	1.0000
L32	24	CCI-085125 (L)	30.25 - 35.25	1.0000	1.0000
L32	25	CCI-085125 (L)	30.25 - 35.25	1.0000	1.0000
L32	26	CCI-085125 (L)	30.25 - 35.25	1.0000	1.0000
L32	27	CCI-085125 (L)	30.25 - 35.25	1.0000	1.0000
L32	28	CCI-085125 (L)	30.25 - 35.25	1.0000	1.0000
L33	2	Safety Line 3/8"	25.25 - 30.25	1.0000	1.0000
L33	3	Step Pegs	25.25 - 30.25	1.0000	1.0000
L33	8	FB-L98B-034-XXX(3/8)	25.25 - 30.25	1.0000	1.0000
L33	9	WR-VG86ST-BRDA(7/8)	25.25 - 30.25	1.0000	1.0000
L33	11	FXL 780 PE(7/8)	25.25 - 30.25	1.0000	1.0000
L33	13	HCS 6X12 6AWG(1-3/8)	25.25 - 30.25	1.0000	1.0000
L33	23	CCI-085125 (L)	25.25 - 30.25	1.0000	1.0000
L33	24	CCI-085125 (L)	25.25 - 30.25	1.0000	1.0000
L33	25	CCI-085125 (L)	25.25 - 30.25	1.0000	1.0000
L33	26	CCI-085125 (L)	25.25 - 30.25	1.0000	1.0000
L33	27	CCI-085125 (L)	25.25 - 30.25	1.0000	1.0000
L33	28	CCI-085125 (L)	25.25 - 30.25	1.0000	1.0000
L34	2	Safety Line 3/8"	20.25 - 25.25	1.0000	1.0000
L34	3	Step Pegs	20.25 - 25.25	1.0000	1.0000
L34	8	FB-L98B-034-XXX(3/8)	20.25 - 25.25	1.0000	1.0000
L34	9	WR-VG86ST-BRDA(7/8)	20.25 - 25.25	1.0000	1.0000
L34	11	FXL 780 PE(7/8)	20.25 - 25.25	1.0000	1.0000
L34	13	HCS 6X12 6AWG(1-3/8)	20.25 - 25.25	1.0000	1.0000
L34	23	CCI-085125 (L)	20.25 - 25.25	1.0000	1.0000
L34	24	CCI-085125 (L)	20.25 - 25.25	1.0000	1.0000
L34	25	CCI-085125 (L)	20.25 - 25.25	1.0000	1.0000
L34	26	CCI-085125 (L)	20.25 - 25.25	1.0000	1.0000
L34	27	CCI-085125 (L)	20.25 - 25.25	1.0000	1.0000
L34	28	CCI-085125 (L)	20.25 - 25.25	1.0000	1.0000
L35	2	Safety Line 3/8"	15.75 - 20.25	1.0000	1.0000
L35	3	Step Pegs	15.75 - 20.25	1.0000	1.0000
L35	8	FB-L98B-034-XXX(3/8)	15.75 - 20.25	1.0000	1.0000
L35	9	WR-VG86ST-BRDA(7/8)	15.75 - 20.25	1.0000	1.0000
L35	11	FXL 780 PE(7/8)	15.75 - 20.25	1.0000	1.0000
L35	13	HCS 6X12 6AWG(1-3/8)	15.75 - 20.25	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L35	23	CCI-085125 (L)	15.75 - 20.25	1.0000	1.0000
L35	24	CCI-085125 (L)	15.75 - 20.25	1.0000	1.0000
L35	25	CCI-085125 (L)	15.75 - 20.25	1.0000	1.0000
L35	26	CCI-085125 (L)	15.75 - 20.25	1.0000	1.0000
L35	27	CCI-085125 (L)	15.75 - 20.25	1.0000	1.0000
L35	28	CCI-085125 (L)	15.75 - 20.25	1.0000	1.0000
L36	2	Safety Line 3/8"	15.50 - 15.75	1.0000	1.0000
L36	3	Step Pegs	15.50 - 15.75	1.0000	1.0000
L36	8	FB-L98B-034-XXX(3/8)	15.50 - 15.75	1.0000	1.0000
L36	9	WR-VG86ST-BRDA(7/8)	15.50 - 15.75	1.0000	1.0000
L36	11	FXL 780 PE(7/8)	15.50 - 15.75	1.0000	1.0000
L36	13	HCS 6X12 6AWG(1-3/8)	15.50 - 15.75	1.0000	1.0000
L36	23	CCI-085125 (L)	15.50 - 15.75	1.0000	1.0000
L36	24	CCI-085125 (L)	15.50 - 15.75	1.0000	1.0000
L36	25	CCI-085125 (L)	15.50 - 15.75	1.0000	1.0000
L36	26	CCI-085125 (L)	15.50 - 15.75	1.0000	1.0000
L36	27	CCI-085125 (L)	15.50 - 15.75	1.0000	1.0000
L36	28	CCI-085125 (L)	15.50 - 15.75	1.0000	1.0000
L37	2	Safety Line 3/8"	10.50 - 15.50	1.0000	1.0000
L37	3	Step Pegs	10.50 - 15.50	1.0000	1.0000
L37	8	FB-L98B-034-XXX(3/8)	10.50 - 15.50	1.0000	1.0000
L37	9	WR-VG86ST-BRDA(7/8)	10.50 - 15.50	1.0000	1.0000
L37	11	FXL 780 PE(7/8)	10.50 - 15.50	1.0000	1.0000
L37	13	HCS 6X12 6AWG(1-3/8)	10.50 - 15.50	1.0000	1.0000
L37	23	CCI-085125 (L)	10.50 - 15.50	1.0000	1.0000
L37	24	CCI-085125 (L)	10.50 - 15.50	1.0000	1.0000
L37	25	CCI-085125 (L)	10.50 - 15.50	1.0000	1.0000
L37	26	CCI-085125 (L)	10.50 - 15.50	1.0000	1.0000
L37	27	CCI-085125 (L)	10.50 - 15.50	1.0000	1.0000
L37	28	CCI-085125 (L)	10.50 - 15.50	1.0000	1.0000
L38	2	Safety Line 3/8"	10.00 - 10.50	1.0000	1.0000
L38	3	Step Pegs	10.00 - 10.50	1.0000	1.0000
L38	8	FB-L98B-034-XXX(3/8)	7.25 - 10.50	1.0000	1.0000
L38	9	WR-VG86ST-BRDA(7/8)	7.25 - 10.50	1.0000	1.0000
L38	11	FXL 780 PE(7/8)	7.25 - 10.50	1.0000	1.0000
L38	13	HCS 6X12 6AWG(1-3/8)	7.25 - 10.50	1.0000	1.0000
L38	23	CCI-085125 (L)	7.25 - 10.50	1.0000	1.0000
L38	24	CCI-085125 (L)	7.25 - 10.50	1.0000	1.0000
L38	25	CCI-085125 (L)	7.25 - 10.50	1.0000	1.0000
L38	26	CCI-085125 (L)	7.25 - 10.50	1.0000	1.0000
L38	27	CCI-085125 (L)	7.25 - 10.50	1.0000	1.0000
L38	28	CCI-085125 (L)	7.25 - 10.50	1.0000	1.0000
L39	8	FB-L98B-034-XXX(3/8)	7.00 - 7.25	1.0000	1.0000
L39	9	WR-VG86ST-BRDA(7/8)	7.00 - 7.25	1.0000	1.0000
L39	11	FXL 780 PE(7/8)	7.00 - 7.25	1.0000	1.0000
L39	13	HCS 6X12 6AWG(1-3/8)	7.00 - 7.25	1.0000	1.0000
L39	23	CCI-085125 (L)	7.00 - 7.25	1.0000	1.0000
L39	24	CCI-085125 (L)	7.00 - 7.25	1.0000	1.0000
L39	25	CCI-085125 (L)	7.00 - 7.25	1.0000	1.0000
L39	26	CCI-085125 (L)	7.00 - 7.25	1.0000	1.0000
L39	27	CCI-085125 (L)	7.00 - 7.25	1.0000	1.0000
L39	28	CCI-085125 (L)	7.00 - 7.25	1.0000	1.0000
L40	8	FB-L98B-034-XXX(3/8)	6.00 - 7.00	1.0000	1.0000
L40	9	WR-VG86ST-BRDA(7/8)	6.00 - 7.00	1.0000	1.0000
L40	11	FXL 780 PE(7/8)	6.00 - 7.00	1.0000	1.0000
L40	13	HCS 6X12 6AWG(1-3/8)	6.00 - 7.00	1.0000	1.0000
L40	23	CCI-085125 (L)	5.83 - 7.00	1.0000	1.0000
L40	24	CCI-085125 (L)	5.83 - 7.00	1.0000	1.0000
L40	25	CCI-085125 (L)	5.83 - 7.00	1.0000	1.0000
L40	26	CCI-085125 (L)	5.83 - 7.00	1.0000	1.0000
L40	27	CCI-085125 (L)	5.83 - 7.00	1.0000	1.0000
L40	28	CCI-085125 (L)	5.83 - 7.00	1.0000	1.0000
L41	23	CCI-085125 (L)	5.58 - 5.83	1.0000	1.0000
L41	24	CCI-085125 (L)	5.58 - 5.83	1.0000	1.0000
L41	25	CCI-085125 (L)	5.58 - 5.83	1.0000	1.0000
L41	26	CCI-085125 (L)	5.58 - 5.83	1.0000	1.0000
L41	27	CCI-085125 (L)	5.58 - 5.83	1.0000	1.0000
L41	28	CCI-085125 (L)	5.58 - 5.83	1.0000	1.0000
L42	23	CCI-085125 (L)	4.08 - 5.58	1.0000	1.0000
L42	24	CCI-085125 (L)	4.08 - 5.58	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L42	25	CCI-085125 (L)	4.08 - 5.58	1.0000	1.0000
L42	26	CCI-085125 (L)	4.08 - 5.58	1.0000	1.0000
L42	27	CCI-085125 (L)	4.08 - 5.58	1.0000	1.0000
L42	28	CCI-085125 (L)	4.08 - 5.58	1.0000	1.0000
L43	23	CCI-085125 (L)	3.83 - 4.08	1.0000	1.0000
L43	24	CCI-085125 (L)	3.83 - 4.08	1.0000	1.0000
L43	25	CCI-085125 (L)	3.83 - 4.08	1.0000	1.0000
L43	26	CCI-085125 (L)	3.83 - 4.08	1.0000	1.0000
L43	27	CCI-085125 (L)	3.83 - 4.08	1.0000	1.0000
L43	28	CCI-085125 (L)	3.83 - 4.08	1.0000	1.0000
L44	23	CCI-085125 (L)	0.00 - 3.83	1.0000	1.0000
L44	24	CCI-085125 (L)	0.00 - 3.83	1.0000	1.0000
L44	25	CCI-085125 (L)	0.00 - 3.83	1.0000	1.0000
L44	26	CCI-085125 (L)	0.00 - 3.83	1.0000	1.0000
L44	27	CCI-085125 (L)	0.00 - 3.83	1.0000	1.0000
L44	28	CCI-085125 (L)	0.00 - 3.83	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
L8	33	CCI-065125 (L)	104.75 - 109.75	Auto	0.7693
L8	34	CCI-065125 (L)	104.75 - 109.75	Auto	0.7693
L8	35	CCI-065125 (L)	104.75 - 109.75	Auto	0.7693
L9	33	CCI-065125 (L)	99.75 - 104.75	Auto	0.7239
L9	34	CCI-065125 (L)	99.75 - 104.75	Auto	0.7239
L9	35	CCI-065125 (L)	99.75 - 104.75	Auto	0.7239
L10	26	CCI-085125 (L)	94.75 - 95.56	Auto	0.7440
L10	27	CCI-085125 (L)	94.75 - 95.56	Auto	0.7440
L10	28	CCI-085125 (L)	94.75 - 95.56	Auto	0.7440
L10	33	CCI-065125 (L)	95.75 - 99.75	Auto	0.6817
L10	34	CCI-065125 (L)	95.75 - 99.75	Auto	0.6817
L10	35	CCI-065125 (L)	95.75 - 99.75	Auto	0.6817
L11	26	CCI-085125 (L)	90.92 - 94.75	Auto	0.7249
L11	27	CCI-085125 (L)	90.92 - 94.75	Auto	0.7249
L11	28	CCI-085125 (L)	90.92 - 94.75	Auto	0.7249
L12	26	CCI-085125 (L)	90.67 - 90.92	Auto	0.7538
L12	27	CCI-085125 (L)	90.67 - 90.92	Auto	0.7538
L12	28	CCI-085125 (L)	90.67 - 90.92	Auto	0.7538
L13	26	CCI-085125 (L)	83.08 - 90.67	Auto	0.7244
L13	27	CCI-085125 (L)	83.08 - 90.67	Auto	0.7244
L13	28	CCI-085125 (L)	83.08 - 90.67	Auto	0.7244
L14	26	CCI-085125 (L)	81.41 - 83.08	Auto	0.7176
L14	27	CCI-085125 (L)	81.41 - 83.08	Auto	0.7176
L14	28	CCI-085125 (L)	81.41 - 83.08	Auto	0.7176
L15	26	CCI-085125 (L)	76.41 - 81.41	Auto	0.6938
L15	27	CCI-085125 (L)	76.41 - 81.41	Auto	0.6938
L15	28	CCI-085125 (L)	76.41 - 81.41	Auto	0.6938
L15	30	CCI-065125 (L)	76.41 - 77.25	Auto	0.5865
L15	31	CCI-065125 (L)	76.41 - 77.25	Auto	0.5865
L15	32	CCI-065125 (L)	76.41 - 77.25	Auto	0.5865
L16	26	CCI-085125 (L)	74.50 - 76.41	Auto	0.6746
L16	27	CCI-085125 (L)	74.50 - 76.41	Auto	0.6746
L16	28	CCI-085125 (L)	74.50 - 76.41	Auto	0.6746
L16	30	CCI-065125 (L)	74.50 - 76.41	Auto	0.5745
L16	31	CCI-065125 (L)	74.50 - 76.41	Auto	0.5745
L16	32	CCI-065125 (L)	74.50 - 76.41	Auto	0.5745
L17	26	CCI-085125 (L)	74.25 - 74.50	Auto	0.7677
L17	27	CCI-085125 (L)	74.25 - 74.50	Auto	0.7677
L17	28	CCI-085125 (L)	74.25 - 74.50	Auto	0.7677
L17	30	CCI-065125 (L)	74.25 - 74.50	Auto	0.6963
L17	31	CCI-065125 (L)	74.25 - 74.50	Auto	0.6963
L17	32	CCI-065125 (L)	74.25 - 74.50	Auto	0.6963
L18	23	CCI-085125 (L)	70.58 - 70.58	Auto	0.7340
L18	24	CCI-085125 (L)	70.58 - 70.58	Auto	0.7340

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L18	25	CCI-085125 (L)	70.58 - 70.58	Auto	0.7340
L18	26	CCI-085125 (L)	70.58 - 74.25	Auto	0.7428
L18	27	CCI-085125 (L)	70.58 - 74.25	Auto	0.7428
L18	28	CCI-085125 (L)	70.58 - 74.25	Auto	0.7428
L18	30	CCI-065125 (L)	70.58 - 74.25	Auto	0.6637
L18	31	CCI-065125 (L)	70.58 - 74.25	Auto	0.6637
L18	32	CCI-065125 (L)	70.58 - 74.25	Auto	0.6637
L19	23	CCI-085125 (L)	70.33 - 70.58	Auto	0.7334
L19	24	CCI-085125 (L)	70.33 - 70.58	Auto	0.7334
L19	25	CCI-085125 (L)	70.33 - 70.58	Auto	0.7334
L19	26	CCI-085125 (L)	70.33 - 70.58	Auto	0.7334
L19	27	CCI-085125 (L)	70.33 - 70.58	Auto	0.7334
L19	28	CCI-085125 (L)	70.33 - 70.58	Auto	0.7334
L20	23	CCI-085125 (L)	66.33 - 70.33	Auto	0.7128
L20	24	CCI-085125 (L)	66.33 - 70.33	Auto	0.7128
L20	25	CCI-085125 (L)	66.33 - 70.33	Auto	0.7128
L20	26	CCI-085125 (L)	66.33 - 70.33	Auto	0.7128
L20	27	CCI-085125 (L)	66.33 - 70.33	Auto	0.7128
L20	28	CCI-085125 (L)	66.33 - 70.33	Auto	0.7128
L21	23	CCI-085125 (L)	66.08 - 66.33	Auto	0.7336
L21	24	CCI-085125 (L)	66.08 - 66.33	Auto	0.7336
L21	25	CCI-085125 (L)	66.08 - 66.33	Auto	0.7336
L21	26	CCI-085125 (L)	66.08 - 66.33	Auto	0.7336
L21	27	CCI-085125 (L)	66.08 - 66.33	Auto	0.7336
L21	28	CCI-085125 (L)	66.08 - 66.33	Auto	0.7336
L22	23	CCI-085125 (L)	61.08 - 66.08	Auto	0.7055
L22	24	CCI-085125 (L)	61.08 - 66.08	Auto	0.7055
L22	25	CCI-085125 (L)	61.08 - 66.08	Auto	0.7055
L22	26	CCI-085125 (L)	61.08 - 66.08	Auto	0.7055
L22	27	CCI-085125 (L)	61.08 - 66.08	Auto	0.7055
L22	28	CCI-085125 (L)	61.08 - 66.08	Auto	0.7055
L22	37	CCI-045100 (L)	61.08 - 61.50	Auto	0.4229
L22	38	CCI-045100 (L)	61.08 - 61.50	Auto	0.4229
L22	39	CCI-045100 (L)	61.08 - 61.50	Auto	0.4229
L23	23	CCI-085125 (L)	60.00 - 61.08	Auto	0.6909
L23	24	CCI-085125 (L)	60.00 - 61.08	Auto	0.6909
L23	25	CCI-085125 (L)	60.00 - 61.08	Auto	0.6909
L23	26	CCI-085125 (L)	60.00 - 61.08	Auto	0.6909
L23	27	CCI-085125 (L)	60.00 - 61.08	Auto	0.6909
L23	28	CCI-085125 (L)	60.00 - 61.08	Auto	0.6909
L23	37	CCI-045100 (L)	60.00 - 61.08	Auto	0.4161
L23	38	CCI-045100 (L)	60.00 - 61.08	Auto	0.4161
L23	39	CCI-045100 (L)	60.00 - 61.08	Auto	0.4161
L24	23	CCI-085125 (L)	59.75 - 60.00	Auto	0.6877
L24	24	CCI-085125 (L)	59.75 - 60.00	Auto	0.6877
L24	25	CCI-085125 (L)	59.75 - 60.00	Auto	0.6877
L24	26	CCI-085125 (L)	59.75 - 60.00	Auto	0.6877
L24	27	CCI-085125 (L)	59.75 - 60.00	Auto	0.6877
L24	28	CCI-085125 (L)	59.75 - 60.00	Auto	0.6877
L24	37	CCI-045100 (L)	59.75 - 60.00	Auto	0.4100
L24	38	CCI-045100 (L)	59.75 - 60.00	Auto	0.4100
L24	39	CCI-045100 (L)	59.75 - 60.00	Auto	0.4100
L25	23	CCI-085125 (L)	54.75 - 59.75	Auto	0.6595
L25	24	CCI-085125 (L)	54.75 - 59.75	Auto	0.6595
L25	25	CCI-085125 (L)	54.75 - 59.75	Auto	0.6595
L25	26	CCI-085125 (L)	54.75 - 59.75	Auto	0.6595
L25	27	CCI-085125 (L)	54.75 - 59.75	Auto	0.6595
L25	28	CCI-085125 (L)	54.75 - 59.75	Auto	0.6595
L25	37	CCI-045100 (L)	54.75 - 59.75	Auto	0.3569
L25	38	CCI-045100 (L)	54.75 - 59.75	Auto	0.3569
L25	39	CCI-045100 (L)	54.75 - 59.75	Auto	0.3569
L26	23	CCI-085125 (L)	49.75 - 54.75	Auto	0.6251
L26	24	CCI-085125 (L)	49.75 - 54.75	Auto	0.6251
L26	25	CCI-085125 (L)	49.75 - 54.75	Auto	0.6251
L26	26	CCI-085125 (L)	49.75 - 54.75	Auto	0.6251
L26	27	CCI-085125 (L)	49.75 - 54.75	Auto	0.6251
L26	28	CCI-085125 (L)	49.75 - 54.75	Auto	0.6251
L26	37	CCI-045100 (L)	49.75 - 54.75	Auto	0.2919

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L26	38	CCI-045100 (L)	49.75 - 54.75	Auto	0.2919
L26	39	CCI-045100 (L)	49.75 - 54.75	Auto	0.2919
L27	23	CCI-085125 (L)	44.78 - 49.75	Auto	0.6011
L27	24	CCI-085125 (L)	44.78 - 49.75	Auto	0.6011
L27	25	CCI-085125 (L)	44.78 - 49.75	Auto	0.6011
L27	26	CCI-085125 (L)	44.78 - 49.75	Auto	0.6011
L27	27	CCI-085125 (L)	44.78 - 49.75	Auto	0.6011
L27	28	CCI-085125 (L)	44.78 - 49.75	Auto	0.6011
L27	37	CCI-045100 (L)	46.50 - 49.75	Auto	0.2544
L27	38	CCI-045100 (L)	46.50 - 49.75	Auto	0.2544
L27	39	CCI-045100 (L)	46.50 - 49.75	Auto	0.2544
L28	23	CCI-085125 (L)	43.78 - 44.78	Auto	0.6049
L28	24	CCI-085125 (L)	43.78 - 44.78	Auto	0.6049
L28	25	CCI-085125 (L)	43.78 - 44.78	Auto	0.6049
L28	26	CCI-085125 (L)	43.78 - 44.78	Auto	0.6049
L28	27	CCI-085125 (L)	43.78 - 44.78	Auto	0.6049
L28	28	CCI-085125 (L)	43.78 - 44.78	Auto	0.6049
L29	23	CCI-085125 (L)	38.78 - 43.78	Auto	0.5853
L29	24	CCI-085125 (L)	38.78 - 43.78	Auto	0.5853
L29	25	CCI-085125 (L)	38.78 - 43.78	Auto	0.5853
L29	26	CCI-085125 (L)	38.78 - 43.78	Auto	0.5853
L29	27	CCI-085125 (L)	38.78 - 43.78	Auto	0.5853
L29	28	CCI-085125 (L)	38.78 - 43.78	Auto	0.5853
L30	23	CCI-085125 (L)	35.50 - 38.78	Auto	0.5602
L30	24	CCI-085125 (L)	35.50 - 38.78	Auto	0.5602
L30	25	CCI-085125 (L)	35.50 - 38.78	Auto	0.5602
L30	26	CCI-085125 (L)	35.50 - 38.78	Auto	0.5602
L30	27	CCI-085125 (L)	35.50 - 38.78	Auto	0.5602
L30	28	CCI-085125 (L)	35.50 - 38.78	Auto	0.5602
L31	23	CCI-085125 (L)	35.25 - 35.50	Auto	0.5517
L31	24	CCI-085125 (L)	35.25 - 35.50	Auto	0.5517
L31	25	CCI-085125 (L)	35.25 - 35.50	Auto	0.5517
L31	26	CCI-085125 (L)	35.25 - 35.50	Auto	0.5517
L31	27	CCI-085125 (L)	35.25 - 35.50	Auto	0.5517
L31	28	CCI-085125 (L)	35.25 - 35.50	Auto	0.5517
L32	23	CCI-085125 (L)	30.25 - 35.25	Auto	0.5287
L32	24	CCI-085125 (L)	30.25 - 35.25	Auto	0.5287
L32	25	CCI-085125 (L)	30.25 - 35.25	Auto	0.5287
L32	26	CCI-085125 (L)	30.25 - 35.25	Auto	0.5287
L32	27	CCI-085125 (L)	30.25 - 35.25	Auto	0.5287
L32	28	CCI-085125 (L)	30.25 - 35.25	Auto	0.5287
L33	23	CCI-085125 (L)	25.25 - 30.25	Auto	0.4994
L33	24	CCI-085125 (L)	25.25 - 30.25	Auto	0.4994
L33	25	CCI-085125 (L)	25.25 - 30.25	Auto	0.4994
L33	26	CCI-085125 (L)	25.25 - 30.25	Auto	0.4994
L33	27	CCI-085125 (L)	25.25 - 30.25	Auto	0.4994
L33	28	CCI-085125 (L)	25.25 - 30.25	Auto	0.4994
L34	23	CCI-085125 (L)	20.25 - 25.25	Auto	0.4702
L34	24	CCI-085125 (L)	20.25 - 25.25	Auto	0.4702
L34	25	CCI-085125 (L)	20.25 - 25.25	Auto	0.4702
L34	26	CCI-085125 (L)	20.25 - 25.25	Auto	0.4702
L34	27	CCI-085125 (L)	20.25 - 25.25	Auto	0.4702
L34	28	CCI-085125 (L)	20.25 - 25.25	Auto	0.4702
L35	23	CCI-085125 (L)	15.75 - 20.25	Auto	0.4422
L35	24	CCI-085125 (L)	15.75 - 20.25	Auto	0.4422
L35	25	CCI-085125 (L)	15.75 - 20.25	Auto	0.4422
L35	26	CCI-085125 (L)	15.75 - 20.25	Auto	0.4422
L35	27	CCI-085125 (L)	15.75 - 20.25	Auto	0.4422
L35	28	CCI-085125 (L)	15.75 - 20.25	Auto	0.4422
L36	23	CCI-085125 (L)	15.50 - 15.75	Auto	0.4411
L36	24	CCI-085125 (L)	15.50 - 15.75	Auto	0.4411
L36	25	CCI-085125 (L)	15.50 - 15.75	Auto	0.4411
L36	26	CCI-085125 (L)	15.50 - 15.75	Auto	0.4411
L36	27	CCI-085125 (L)	15.50 - 15.75	Auto	0.4411
L36	28	CCI-085125 (L)	15.50 - 15.75	Auto	0.4411
L37	23	CCI-085125 (L)	10.50 - 15.50	Auto	0.4233
L37	24	CCI-085125 (L)	10.50 - 15.50	Auto	0.4233
L37	25	CCI-085125 (L)	10.50 - 15.50	Auto	0.4233

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L37	26	CCI-085125 (L)	10.50 - 15.50	Auto	0.4233
L37	27	CCI-085125 (L)	10.50 - 15.50	Auto	0.4233
L37	28	CCI-085125 (L)	10.50 - 15.50	Auto	0.4233
L38	23	CCI-085125 (L)	7.25 - 10.50	Auto	0.3982
L38	24	CCI-085125 (L)	7.25 - 10.50	Auto	0.3982
L38	25	CCI-085125 (L)	7.25 - 10.50	Auto	0.3982
L38	26	CCI-085125 (L)	7.25 - 10.50	Auto	0.3982
L38	27	CCI-085125 (L)	7.25 - 10.50	Auto	0.3982
L38	28	CCI-085125 (L)	7.25 - 10.50	Auto	0.3982
L39	23	CCI-085125 (L)	7.00 - 7.25	Auto	0.3898
L39	24	CCI-085125 (L)	7.00 - 7.25	Auto	0.3898
L39	25	CCI-085125 (L)	7.00 - 7.25	Auto	0.3898
L39	26	CCI-085125 (L)	7.00 - 7.25	Auto	0.3898
L39	27	CCI-085125 (L)	7.00 - 7.25	Auto	0.3898
L39	28	CCI-085125 (L)	7.00 - 7.25	Auto	0.3898
L40	23	CCI-085125 (L)	5.83 - 7.00	Auto	0.3864
L40	24	CCI-085125 (L)	5.83 - 7.00	Auto	0.3864
L40	25	CCI-085125 (L)	5.83 - 7.00	Auto	0.3864
L40	26	CCI-085125 (L)	5.83 - 7.00	Auto	0.3864
L40	27	CCI-085125 (L)	5.83 - 7.00	Auto	0.3864
L40	28	CCI-085125 (L)	5.83 - 7.00	Auto	0.3864
L41	23	CCI-085125 (L)	5.58 - 5.83	Auto	0.4140
L41	24	CCI-085125 (L)	5.58 - 5.83	Auto	0.4140
L41	25	CCI-085125 (L)	5.58 - 5.83	Auto	0.4140
L41	26	CCI-085125 (L)	5.58 - 5.83	Auto	0.4140
L41	27	CCI-085125 (L)	5.58 - 5.83	Auto	0.4140
L41	28	CCI-085125 (L)	5.58 - 5.83	Auto	0.4140
L42	23	CCI-085125 (L)	4.08 - 5.58	Auto	0.4098
L42	24	CCI-085125 (L)	4.08 - 5.58	Auto	0.4098
L42	25	CCI-085125 (L)	4.08 - 5.58	Auto	0.4098
L42	26	CCI-085125 (L)	4.08 - 5.58	Auto	0.4098
L42	27	CCI-085125 (L)	4.08 - 5.58	Auto	0.4098
L42	28	CCI-085125 (L)	4.08 - 5.58	Auto	0.4098
L43	23	CCI-085125 (L)	3.83 - 4.08	Auto	0.4056
L43	24	CCI-085125 (L)	3.83 - 4.08	Auto	0.4056
L43	25	CCI-085125 (L)	3.83 - 4.08	Auto	0.4056
L43	26	CCI-085125 (L)	3.83 - 4.08	Auto	0.4056
L43	27	CCI-085125 (L)	3.83 - 4.08	Auto	0.4056
L43	28	CCI-085125 (L)	3.83 - 4.08	Auto	0.4056
L44	23	CCI-085125 (L)	0.00 - 3.83	Auto	0.3906
L44	24	CCI-085125 (L)	0.00 - 3.83	Auto	0.3906
L44	25	CCI-085125 (L)	0.00 - 3.83	Auto	0.3906
L44	26	CCI-085125 (L)	0.00 - 3.83	Auto	0.3906
L44	27	CCI-085125 (L)	0.00 - 3.83	Auto	0.3906
L44	28	CCI-085125 (L)	0.00 - 3.83	Auto	0.3906

Discrete Tower Loads

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

Lighting Rod 3/4" x 10'	A	From Leg	0.00 0.00 5.00	0.0000	135.00	No Ice 0.75 1/2" 1.76 Ice 2.80 1" Ice 4.91 2" Ice	0.75 1.76 2.80 4.91	0.04 0.05 0.06 0.11

DB222	A	From Leg	3.00 0.00 5.00	0.0000	135.00	No Ice 1.60 1/2" 2.88 Ice 4.16	1.60 2.88 4.16	0.02 0.02 0.03

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
						1" Ice 2" Ice	6.72 6.72	0.04
DB404	A	From Leg	3.00 0.00 2.00	0.0000	135.00	No Ice 1/2" Ice	1.14 2.05 2.96	0.01 0.02 0.02
						1" Ice 2" Ice	4.79 4.79	0.03
DB408	A	From Leg	3.00 0.00 4.00	0.0000	135.00	No Ice 1/2" Ice	1.90 3.42 4.94	0.02 0.02 0.03
						1" Ice 2" Ice	7.98 7.98	0.04
SL11-840/UT4	B	From Leg	3.00 0.00 7.00	0.0000	135.00	No Ice 1/2" Ice	3.57 5.10 6.64	0.03 0.05 0.09
						1" Ice 2" Ice	9.79 9.79	0.19
SRL-101A	B	From Leg	3.00 0.00 4.00	0.0000	135.00	No Ice 1/2" Ice	3.43 5.00 6.57	0.01 0.05 0.09
						1" Ice 2" Ice	9.72 9.72	0.16
(2) ASP-702	C	From Leg	3.00 0.00 4.00	0.0000	135.00	No Ice 1/2" Ice	1.68 2.54 3.43	0.01 0.02 0.04
						1" Ice 2" Ice	4.51 4.51	0.09
T-Arm Mount [TA 702-3]	C	None		0.0000	135.00	No Ice 1/2" Ice	4.75 5.82 6.98	0.34 0.43 0.55
						1" Ice 2" Ice	9.72 9.72	0.87

(2) EPBQ-654L8H8-L2 w/ Mount Pipe	A	From Leg	4.00 0.00 2.00	0.0000	125.00	No Ice 1/2" Ice	14.86 15.72 16.59	6.25 7.02 7.80
						1" Ice 2" Ice	18.38 18.38	0.64 0.64
(2) EPBQ-654L8H8-L2 w/ Mount Pipe	B	From Leg	4.00 0.00 2.00	0.0000	125.00	No Ice 1/2" Ice	14.86 15.72 16.59	6.25 7.02 7.80
						1" Ice 2" Ice	18.38 18.38	0.64 0.64
(2) EPBQ-654L8H8-L2 w/ Mount Pipe	C	From Leg	4.00 0.00 2.00	0.0000	125.00	No Ice 1/2" Ice	14.86 15.72 16.59	6.25 7.02 7.80
						1" Ice 2" Ice	18.38 18.38	0.64 0.64
RRUS 4478 B14	A	From Leg	4.00 0.00 2.00	0.0000	125.00	No Ice 1/2" Ice	1.84 2.01 2.19	1.06 1.20 1.34
						1" Ice 2" Ice	2.57 2.57	0.14 0.14
(2) RRUS 4478 B14	B	From Leg	4.00 0.00 2.00	0.0000	125.00	No Ice 1/2" Ice	1.84 2.01 2.19	1.06 1.20 1.34
						1" Ice 2" Ice	2.57 2.57	0.14 0.14
RRUS 4449 B5/B12	A	From Leg	4.00 0.00 2.00	0.0000	125.00	No Ice 1/2" Ice	1.97 2.14 2.33	1.41 1.56 1.73
						1" Ice 2" Ice	2.72 2.72	0.16 0.16
RRUS 4449 B5/B12	B	From Leg	4.00 0.00	0.0000	125.00	No Ice 1/2"	1.97 2.14	1.41 1.56

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
			2.00			Ice 2.33	1.73	0.11
						1" Ice 2.72	2.07	0.16
						2" Ice		
RRUS 4449 B5/B12	C	From Leg	4.00	0.0000	125.00	No Ice 1.97	1.41	0.07
			0.00			1/2" 2.14	1.56	0.09
			2.00			Ice 2.33	1.73	0.11
						1" Ice 2.72	2.07	0.16
						2" Ice		
RRUS 8843 B2/B66A	A	From Leg	4.00	0.0000	125.00	No Ice 1.64	1.35	0.07
			0.00			1/2" 1.80	1.50	0.09
			2.00			Ice 1.97	1.65	0.11
						1" Ice 2.32	1.99	0.16
						2" Ice		
RRUS 8843 B2/B66A	B	From Leg	4.00	0.0000	125.00	No Ice 1.64	1.35	0.07
			0.00			1/2" 1.80	1.50	0.09
			2.00			Ice 1.97	1.65	0.11
						1" Ice 2.32	1.99	0.16
						2" Ice		
RRUS 8843 B2/B66A	C	From Leg	4.00	0.0000	125.00	No Ice 1.64	1.35	0.07
			0.00			1/2" 1.80	1.50	0.09
			2.00			Ice 1.97	1.65	0.11
						1" Ice 2.32	1.99	0.16
						2" Ice		
DC6-48-60-18-8F	A	From Leg	1.00	0.0000	125.00	No Ice 0.92	0.92	0.02
			0.00			1/2" 1.46	1.46	0.04
			2.00			Ice 1.64	1.64	0.06
						1" Ice 2.04	2.04	0.11
						2" Ice		
DC6-48-60-18-8F	B	From Leg	1.00	0.0000	125.00	No Ice 0.92	0.92	0.02
			0.00			1/2" 1.46	1.46	0.04
			2.00			Ice 1.64	1.64	0.06
						1" Ice 2.04	2.04	0.11
						2" Ice		
Sector Mount [SM 502-3]	C	None		0.0000	125.00	No Ice 29.82	29.82	1.67
						1/2" 42.21	42.21	2.27
						Ice 54.43	54.43	3.05
						1" Ice 78.49	78.49	5.18
						2" Ice		

(3) 4' x 2" Pipe Mount	A	From Leg	4.00	0.0000	111.00	No Ice 0.79	0.79	0.03
			0.00			1/2" 1.03	1.03	0.04
			0.00			Ice 1.28	1.28	0.04
						1" Ice 1.81	1.81	0.07
						2" Ice		
(3) 4' x 2" Pipe Mount	B	From Leg	4.00	0.0000	111.00	No Ice 0.79	0.79	0.03
			0.00			1/2" 1.03	1.03	0.04
			0.00			Ice 1.28	1.28	0.04
						1" Ice 1.81	1.81	0.07
						2" Ice		
(3) 4' x 2" Pipe Mount	C	From Leg	4.00	0.0000	111.00	No Ice 0.79	0.79	0.03
			0.00			1/2" 1.03	1.03	0.04
			0.00			Ice 1.28	1.28	0.04
						1" Ice 1.81	1.81	0.07
						2" Ice		
Platform Mount [LP 712-1]	C	None		0.0000	111.00	No Ice 24.56	24.56	1.34
						1/2" 27.92	27.92	1.91
						Ice 31.27	31.27	2.55
						1" Ice 37.98	37.98	3.97
						2" Ice		
Side Arm Mount [SO 701-3]	C	None		0.0000	111.00	No Ice 3.02	3.02	0.20
						1/2" 4.18	4.18	0.24
						Ice 5.33	5.33	0.28
						1" Ice 7.63	7.63	0.36
						2" Ice		

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	A	From Leg	4.00 0.00 -3.00	0.0000	111.00	No Ice	14.69	6.87	0.18
						1/2" Ice	15.46	7.55	0.31
						Ice	16.23	8.25	0.45
						1" Ice	17.82	9.67	0.78
						2" Ice			
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	B	From Leg	4.00 0.00 -3.00	0.0000	111.00	No Ice	14.69	6.87	0.18
						1/2" Ice	15.46	7.55	0.31
						Ice	16.23	8.25	0.45
						1" Ice	17.82	9.67	0.78
						2" Ice			
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	C	From Leg	4.00 0.00 -3.00	0.0000	111.00	No Ice	14.69	6.87	0.18
						1/2" Ice	15.46	7.55	0.31
						Ice	16.23	8.25	0.45
						1" Ice	17.82	9.67	0.78
						2" Ice			
RADIO 4449 B71 B85A_T- MOBILE	A	From Leg	4.00 0.00 -3.00	0.0000	111.00	No Ice	1.97	1.59	0.07
						1/2" Ice	2.15	1.75	0.09
						Ice	2.33	1.92	0.12
						1" Ice	2.72	2.28	0.17
						2" Ice			
RADIO 4449 B71 B85A_T- MOBILE	B	From Leg	4.00 0.00 -3.00	0.0000	111.00	No Ice	1.97	1.59	0.07
						1/2" Ice	2.15	1.75	0.09
						Ice	2.33	1.92	0.12
						1" Ice	2.72	2.28	0.17
						2" Ice			
RADIO 4449 B71 B85A_T- MOBILE	C	From Leg	4.00 0.00 -3.00	0.0000	111.00	No Ice	1.97	1.59	0.07
						1/2" Ice	2.15	1.75	0.09
						Ice	2.33	1.92	0.12
						1" Ice	2.72	2.28	0.17
						2" Ice			

APXVTM14-ALU-I20 w/ Mount Pipe	A	From Leg	4.00 0.00 3.00	0.0000	97.00	No Ice	4.09	2.86	0.08
						1/2" Ice	4.48	3.23	0.13
						Ice	4.88	3.61	0.19
						1" Ice	5.71	4.40	0.33
						2" Ice			
APXVTM14-ALU-I20 w/ Mount Pipe	B	From Leg	4.00 0.00 3.00	0.0000	97.00	No Ice	4.09	2.86	0.08
						1/2" Ice	4.48	3.23	0.13
						Ice	4.88	3.61	0.19
						1" Ice	5.71	4.40	0.33
						2" Ice			
APXVTM14-ALU-I20 w/ Mount Pipe	C	From Leg	4.00 0.00 3.00	0.0000	97.00	No Ice	4.09	2.86	0.08
						1/2" Ice	4.48	3.23	0.13
						Ice	4.88	3.61	0.19
						1" Ice	5.71	4.40	0.33
						2" Ice			
NNVV-65B-R4 w/ Mount Pipe	A	From Leg	4.00 0.00 3.00	0.0000	97.00	No Ice	7.55	4.23	0.11
						1/2" Ice	8.04	4.67	0.20
						Ice	8.53	5.12	0.30
						1" Ice	9.56	6.05	0.53
						2" Ice			
NNVV-65B-R4 w/ Mount Pipe	B	From Leg	4.00 0.00 3.00	0.0000	97.00	No Ice	7.55	4.23	0.11
						1/2" Ice	8.04	4.67	0.20
						Ice	8.53	5.12	0.30
						1" Ice	9.56	6.05	0.53
						2" Ice			
NNVV-65B-R4 w/ Mount Pipe	C	From Leg	4.00 0.00 3.00	0.0000	97.00	No Ice	7.55	4.23	0.11
						1/2" Ice	8.04	4.67	0.20
						Ice	8.53	5.12	0.30
						1" Ice	9.56	6.05	0.53
						2" Ice			
PCS 1900MHZ 4X45W-65MHZ	A	From Leg	4.00 0.00 3.00	0.0000	97.00	No Ice	2.32	2.24	0.06
						1/2" Ice	2.53	2.44	0.08
						Ice	2.74	2.65	0.11
						1" Ice	3.19	3.09	0.17
						2" Ice			

Description	Face or Leg	Offset Type	Offsets:			Azimuth Adjustment	Placement	C _{AA} _{Front}	C _{AA} _{Side}	Weight			
			Horz	Lateral	Vert						ft	ft ²	ft ²
			ft	ft	ft	°	ft	ft ²	ft ²	K			
PCS 1900MHZ 4X45W-65MHZ	B	From Leg	4.00	0.0000	97.00		2" Ice	2.32	2.24	0.06			
			0.00				No Ice						
			3.00				1/2"				2.53	2.44	0.08
							Ice				2.74	2.65	0.11
PCS 1900MHZ 4X45W-65MHZ	C	From Leg	4.00	0.0000	97.00		1" Ice	3.19	3.09	0.17			
			0.00				2" Ice						
			3.00				No Ice				2.32	2.24	0.06
							1/2"				2.53	2.44	0.08
(2) RRH2X50-800	A	From Leg	4.00	0.0000	97.00		Ice	2.74	2.65	0.11			
			0.00				1" Ice				3.19	3.09	0.17
			3.00				2" Ice						
							No Ice				1.70	1.28	0.05
(2) RRH2X50-800	B	From Leg	4.00	0.0000	97.00		1/2"	1.86	1.43	0.07			
			0.00				Ice				2.03	1.58	0.09
			3.00				1" Ice				2.40	1.91	0.14
							2" Ice						
(2) RRH2X50-800	C	From Leg	4.00	0.0000	97.00		No Ice	1.70	1.28	0.05			
			0.00				1/2"				1.86	1.43	0.07
			3.00				Ice				2.03	1.58	0.09
							1" Ice				2.40	1.91	0.14
FZHN	A	From Leg	4.00	0.0000	97.00		2" Ice	2.02	0.61	0.04			
			0.00				No Ice				2.02	0.61	0.04
			3.00				1/2"				2.20	0.71	0.06
							Ice				2.38	0.83	0.07
FZHN	B	From Leg	4.00	0.0000	97.00		1" Ice	2.77	1.09	0.12			
			0.00				2" Ice						
			3.00				No Ice				2.02	0.61	0.04
							1/2"				2.20	0.71	0.06
FZHN	C	From Leg	4.00	0.0000	97.00		Ice	2.38	0.83	0.07			
			0.00				1" Ice				2.77	1.09	0.12
			3.00				2" Ice						
							No Ice				2.02	0.61	0.04
(2) 6' x 2" Mount Pipe	A	From Leg	4.00	0.0000	97.00		1/2"	1.92	1.92	0.03			
			0.00				Ice				2.29	2.29	0.05
			0.00				1" Ice				3.06	3.06	0.09
							2" Ice						
(2) 6' x 2" Mount Pipe	B	From Leg	4.00	0.0000	97.00		No Ice	1.43	1.43	0.02			
			0.00				1/2"				1.92	1.92	0.03
			0.00				Ice				2.29	2.29	0.05
							1" Ice				3.06	3.06	0.09
(2) 6' x 2" Mount Pipe	C	From Leg	4.00	0.0000	97.00		2" Ice	3.06	3.06	0.09			
			0.00				No Ice				1.43	1.43	0.02
			0.00				1/2"				1.92	1.92	0.03
							Ice				2.29	2.29	0.05
Platform Mount [LP 402-1]	C	None		0.0000	97.00		1" Ice	55.14	55.14	5.60			
							2" Ice						
							No Ice				27.65	27.65	2.17
							1/2"				34.74	34.74	2.83
(2) LPA-80080/4CF w/ Mount Pipe	A	From Leg	4.00	0.0000	87.00		Ice	41.61	41.61	3.63			
			0.00				1" Ice				55.14	55.14	5.60
			3.00				2" Ice						
							No Ice				2.86	6.57	0.03
						1/2"	3.22	7.19	0.08				
						Ice	3.59	7.84	0.13				

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K	
(2) LPA-80080/4CF w/ Mount Pipe	B	From Leg	4.00 0.00 3.00	0.0000	87.00	1" Ice	4.34	9.17	0.25
						2" Ice			
						No Ice	2.86	6.57	0.03
						1/2" Ice	3.22	7.19	0.08
(2) LPA-80080/4CF w/ Mount Pipe	C	From Leg	4.00 0.00 3.00	0.0000	87.00	1" Ice	4.34	9.17	0.13
						2" Ice			
						No Ice	2.86	6.57	0.03
						1/2" Ice	3.22	7.19	0.08
HBXX-6517DS-A2M w/ Mount Pipe	A	From Leg	4.00 0.00 3.00	0.0000	87.00	Ice	3.59	7.84	0.13
						1" Ice	4.34	9.17	0.25
						2" Ice			
						No Ice	7.97	5.99	0.08
HBXX-6517DS-A2M w/ Mount Pipe	B	From Leg	4.00 0.00 3.00	0.0000	87.00	1/2" Ice	8.73	6.72	0.14
						Ice	9.50	7.47	0.22
						1" Ice	11.11	9.02	0.40
						2" Ice			
HBXX-6517DS-A2M w/ Mount Pipe	C	From Leg	4.00 0.00 3.00	0.0000	87.00	No Ice	7.97	5.99	0.08
						1/2" Ice	8.73	6.72	0.14
						Ice	9.50	7.47	0.22
						1" Ice	11.11	9.02	0.40
LNx-6514DS-A1M w/ Mount Pipe	A	From Leg	4.00 0.00 3.00	0.0000	87.00	2" Ice			
						No Ice	4.09	3.30	0.06
						1/2" Ice	4.49	3.68	0.13
						Ice	4.89	4.06	0.20
LNx-6514DS-A1M w/ Mount Pipe	B	From Leg	4.00 0.00 3.00	0.0000	87.00	1" Ice	5.71	4.87	0.38
						2" Ice			
						No Ice	4.09	3.30	0.06
						1/2" Ice	4.49	3.68	0.13
LNx-6514DS-A1M w/ Mount Pipe	C	From Leg	4.00 0.00 3.00	0.0000	87.00	Ice	4.89	4.06	0.20
						1" Ice	5.71	4.87	0.38
						2" Ice			
						No Ice	4.09	3.30	0.06
HBXX-9014DS-A2M w/ Mount Pipe	A	From Leg	4.00 0.00 3.00	0.0000	87.00	1/2" Ice	4.49	3.68	0.13
						Ice	4.89	4.06	0.20
						1" Ice	5.71	4.87	0.38
						2" Ice			
HBXX-9014DS-A2M w/ Mount Pipe	B	From Leg	4.00 0.00 3.00	0.0000	87.00	No Ice	5.18	3.97	0.05
						1/2" Ice	5.70	4.47	0.09
						Ice	6.24	4.98	0.15
						1" Ice	7.36	6.06	0.28
HBXX-9014DS-A2M w/ Mount Pipe	C	From Leg	4.00 0.00 3.00	0.0000	87.00	2" Ice			
						No Ice	5.18	3.97	0.05
						1/2" Ice	5.70	4.47	0.09
						Ice	6.24	4.98	0.15
RRH2X60-AWS	A	From Leg	4.00 0.00 3.00	0.0000	87.00	1" Ice	7.36	6.06	0.28
						2" Ice			
						No Ice	3.50	2.10	0.06
						1/2" Ice	3.76	2.34	0.08
RRH2X60-AWS	B	From Leg	4.00 0.00 3.00	0.0000	87.00	Ice	4.03	2.58	0.11
						1" Ice	4.58	3.09	0.18
						2" Ice			
						No Ice	3.50	2.10	0.06
RRH2X60-AWS	C	From Leg	4.00 0.00 3.00	0.0000	87.00	1/2" Ice	3.76	2.34	0.08
						Ice	4.03	2.58	0.11
						1" Ice	4.58	3.09	0.18

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K	
RRH2X60-AWS	C	From Leg	4.00 0.00 3.00	0.0000	87.00	1" Ice	4.58	3.09	0.18
						2" Ice			
						No Ice	3.50	2.10	0.06
						1/2" Ice	3.76	2.34	0.08
						Ice	4.03	2.58	0.11
RRH2X60-PCS	A	From Leg	4.00 0.00 3.00	0.0000	87.00	1" Ice	4.58	3.09	0.18
						2" Ice			
						No Ice	2.20	1.72	0.06
						1/2" Ice	2.39	1.90	0.08
						Ice	2.59	2.09	0.10
RRH2X60-PCS	B	From Leg	4.00 0.00 3.00	0.0000	87.00	1" Ice	3.01	2.48	0.16
						2" Ice			
						No Ice	2.20	1.72	0.06
						1/2" Ice	2.39	1.90	0.08
						Ice	2.59	2.09	0.10
RRH2X60-PCS	C	From Leg	4.00 0.00 3.00	0.0000	87.00	1" Ice	3.01	2.48	0.16
						2" Ice			
						No Ice	2.20	1.72	0.06
						1/2" Ice	2.39	1.90	0.08
						Ice	2.59	2.09	0.10
(2) DB-T1-6Z-8AB-0Z	C	From Leg	4.00 0.00 3.00	0.0000	87.00	1" Ice	5.93	2.81	0.21
						2" Ice			
						No Ice	4.80	2.00	0.04
						1/2" Ice	5.07	2.19	0.08
						Ice	5.35	2.39	0.12
Platform Mount [LP 303-1]	C	None		0.0000	87.00	1" Ice	28.08	28.08	2.85
						2" Ice			
						No Ice	14.69	14.69	1.25
						1/2" Ice	18.01	18.01	1.57
						Ice	21.34	21.34	1.94
***** KS24019-L112A	C	From Leg	3.00 0.00 1.00	0.0000	75.00	1" Ice	0.41	0.41	0.02
						2" Ice			
						No Ice	0.14	0.14	0.01
						1/2" Ice	0.20	0.20	0.01
						Ice	0.26	0.26	0.01
Side Arm Mount [SO 701-1]	C	From Leg	1.50 0.00 0.00	0.0000	75.00	1" Ice	2.01	4.35	0.12
						2" Ice			
						No Ice	0.85	1.67	0.07
						1/2" Ice	1.14	2.34	0.08
						Ice	1.43	3.01	0.09

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice

Comb. No.	Description
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

Sectio n No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	135 - 130	Pole	Max Tension	42	0.00	0.00	0.00
			Max. Compression	26	-2.04	-0.42	-0.35
			Max. Mx	8	-0.93	-12.15	0.10
			Max. My	2	-0.93	-0.05	12.13
			Max. Vy	8	1.63	-12.15	0.10
			Max. Vx	14	1.63	-0.05	-11.94
			Max. Torque	2			-0.73
L2	130 - 125	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-2.73	-0.42	-0.38
			Max. Mx	8	-1.40	-21.02	0.09
			Max. My	2	-1.40	-0.05	20.99
			Max. Vy	8	1.92	-21.02	0.09
			Max. Vx	14	1.92	-0.05	-20.82
			Max. Torque	2			-0.73
L3	125 - 120	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-12.34	-1.59	-0.42
			Max. Mx	8	-4.99	-70.06	-0.15
			Max. My	2	-4.99	-0.40	69.41
			Max. Vy	8	8.26	-70.06	-0.15
			Max. Vx	14	8.26	-0.87	-69.25
			Max. Torque	14			1.30
L4	120 - 115	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-13.11	-1.60	-0.53
			Max. Mx	8	-5.51	-112.05	-0.34

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L5	115 - 110.5	Pole	Max. My	2	-5.51	-0.24	111.36
			Max. Vy	8	8.53	-112.05	-0.34
			Max. Vx	14	8.53	-1.05	-111.25
			Max. Torque	14			1.30
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-20.52	-1.61	-0.63
			Max. Mx	8	-8.76	-147.46	-0.52
			Max. My	2	-8.76	-0.09	146.74
			Max. Vy	20	-12.46	146.01	0.59
			Max. Vx	14	12.46	-1.20	-146.69
L6	110.5 - 110	Pole	Max. Torque	14			1.30
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-20.61	-1.61	-0.65
			Max. Mx	8	-8.82	-153.70	-0.54
			Max. My	2	-8.82	-0.08	152.97
			Max. Vy	20	-12.49	152.24	0.60
			Max. Vx	14	12.48	-1.22	-152.93
			Max. Torque	14			1.30
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-20.67	-1.61	-0.66
L7	110 - 109.75	Pole	Max. Mx	8	-8.86	-156.82	-0.55
			Max. My	2	-8.86	-0.07	156.09
			Max. Vy	20	-12.51	155.37	0.61
			Max. Vx	14	12.50	-1.23	-156.05
			Max. Torque	14			1.30
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-21.93	-1.62	-0.86
			Max. Mx	8	-9.61	-220.69	-0.76
			Max. My	14	-9.61	-1.40	-219.95
			Max. Vy	20	-13.06	219.27	0.73
L8	109.75 - 104.75	Pole	Max. Vx	14	13.05	-1.40	-219.95
			Max. Torque	14			1.30
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-23.21	-1.63	-1.06
			Max. Mx	8	-10.39	-287.30	-0.97
			Max. My	14	-10.39	-1.58	-286.65
			Max. Vy	20	-13.63	285.98	0.85
			Max. Vx	14	13.62	-1.58	-286.65
			Max. Torque	14			1.30
			Max Tension	1	0.00	0.00	0.00
L9	104.75 - 99.75	Pole	Max. Compression	26	-33.35	-1.63	-1.27
			Max. Mx	8	-15.03	-373.63	-1.19
			Max. My	14	-15.02	-1.75	-373.11
			Max. Vy	20	-18.75	372.48	0.97
			Max. Vx	14	18.73	-1.75	-373.11
			Max. Torque	14			1.29
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-34.41	-1.63	-1.45
			Max. Mx	8	-15.70	-446.11	-1.36
			Max. My	14	-15.70	-1.88	-445.73
L10	99.75 - 94.75	Pole	Max. Vy	20	-19.21	445.13	1.06
			Max. Vx	14	19.19	-1.88	-445.73
			Max. Torque	14			1.29
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-34.49	-1.63	-1.46
			Max. Mx	8	-15.76	-450.90	-1.37
			Max. My	14	-15.76	-1.88	-450.53
			Max. Vy	20	-19.23	449.93	1.06
			Max. Vx	14	19.21	-1.88	-450.53
			Max. Torque	14			1.29
L11	94.75 - 90.92	Pole	Max. Torque	14			1.29
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-43.14	-0.23	-2.48
			Max. Mx	20	-19.26	549.79	0.55
			Max. My	14	-19.27	-1.27	-549.72
			Max. Vy	20	-25.20	549.79	0.55
			Max. Vx	14	25.05	-1.27	-549.72
			Max. Torque	14			1.29
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-45.60	-0.23	-2.73
L12	90.92 - 90.67	Pole	Max. My	2	-8.76	-0.09	146.74
			Max. Vy	20	-12.46	146.01	0.59
			Max. Vx	14	12.46	-1.20	-146.69
			Max. Torque	14			1.30
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-20.52	-1.61	-0.63
			Max. Mx	8	-8.76	-147.46	-0.52
			Max. My	2	-8.76	-0.09	146.74
			Max. Vy	20	-12.46	146.01	0.59
			Max. Vx	14	12.46	-1.20	-146.69
L13	90.67 - 83.08	Pole	Max. Torque	14			1.30
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-20.61	-1.61	-0.65
			Max. Mx	8	-8.82	-153.70	-0.54
			Max. My	2	-8.82	-0.08	152.97
			Max. Vy	20	-12.49	152.24	0.60
			Max. Vx	14	12.48	-1.22	-152.93
			Max. Torque	14			1.30
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-20.67	-1.61	-0.66
L14	83.08 - 81.41	Pole	Max. Mx	8	-8.86	-156.82	-0.55
			Max. My	2	-8.86	-0.07	156.09
			Max. Vy	20	-12.51	155.37	0.61
			Max. Vx	14	12.50	-1.23	-156.05
			Max. Torque	14			1.30
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-21.93	-1.62	-0.86
			Max. Mx	8	-9.61	-220.69	-0.76
			Max. My	14	-9.61	-1.40	-219.95
			Max. Vy	20	-13.06	219.27	0.73

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L15	81.41 - 76.41	Pole	Max. Mx	20	-21.04	677.54	0.10
			Max. My	14	-21.05	-0.88	-676.76
			Max. Vy	20	-25.91	677.54	0.10
			Max. Vx	14	25.75	-0.88	-676.76
			Max. Torque	6			-0.83
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-47.39	-0.23	-2.99
			Max. Mx	20	-22.33	808.54	-0.35
			Max. My	14	-22.34	-0.49	-807.03
			Max. Vy	20	-26.53	808.54	-0.35
L16	76.41 - 74.5	Pole	Max. Vx	14	26.37	-0.49	-807.03
			Max. Torque	6			-0.83
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-48.27	0.07	-3.26
			Max. Mx	20	-22.90	859.65	-0.62
			Max. My	14	-22.91	-0.17	-857.81
			Max. Vy	20	-26.86	859.65	-0.62
			Max. Vx	14	26.73	-0.17	-857.81
			Max. Torque	6			-0.84
			Max Tension	1	0.00	0.00	0.00
L17	74.5 - 74.25	Pole	Max. Compression	26	-48.39	0.07	-3.27
			Max. Mx	20	-23.01	866.37	-0.64
			Max. My	14	-23.02	-0.16	-864.49
			Max. Vy	20	-26.88	866.37	-0.64
			Max. Vx	14	26.75	-0.16	-864.49
			Max. Torque	6			-0.84
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-50.19	0.07	-3.46
			Max. Mx	20	-24.29	965.97	-0.90
			Max. My	14	-24.30	0.06	-963.67
L18	74.25 - 70.58	Pole	Max. Vy	20	-27.42	965.97	-0.90
			Max. Vx	14	27.30	0.06	-963.67
			Max. Torque	6			-0.86
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-50.32	0.07	-3.48
			Max. Mx	20	-24.39	972.83	-0.92
			Max. My	14	-24.40	0.07	-970.49
			Max. Vy	20	-27.45	972.83	-0.92
			Max. Vx	14	27.32	0.07	-970.49
			Max. Torque	6			-0.87
L19	70.58 - 70.33	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-52.32	0.07	-3.69
			Max. Mx	20	-25.82	1083.81	-1.21
			Max. My	14	-25.82	0.31	-1081.03
			Max. Vy	20	-28.06	1083.81	-1.21
			Max. Vx	14	27.93	0.31	-1081.03
			Max. Torque	6			-0.89
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-52.45	0.07	-3.71
			Max. Mx	20	-25.92	1090.83	-1.22
L20	70.33 - 66.33	Pole	Max. My	14	-25.93	0.33	-1088.02
			Max. Vy	20	-28.09	1090.83	-1.22
			Max. Vx	14	27.97	0.33	-1088.02
			Max. Torque	6			-0.89
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-55.13	0.07	-3.98
			Max. Mx	20	-27.86	1233.15	-1.59
			Max. My	14	-27.87	0.62	-1229.80
			Max. Vy	20	-28.86	1233.15	-1.59
			Max. Vx	14	28.74	0.62	-1229.80
L21	66.33 - 66.08	Pole	Max. Torque	6			-0.89
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-55.74	0.07	-4.04
			Max. Mx	20	-28.29	1264.39	-1.66
			Max. My	14	-28.30	0.69	-1260.94
			Max. Vy	20	-29.03	1264.39	-1.66
			Max. Vx	14	28.91	0.69	-1260.94
			Max. Torque	6			-0.89
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-55.74	0.07	-4.04
L22	66.08 - 61.08	Pole	Max. Mx	20	-28.29	1264.39	-1.66
			Max. My	14	-28.30	0.69	-1260.94
			Max. Vy	20	-29.03	1264.39	-1.66
			Max. Vx	14	28.91	0.69	-1260.94
			Max. Torque	6			-0.89
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-55.74	0.07	-4.04
			Max. Mx	20	-28.29	1264.39	-1.66
			Max. My	14	-28.30	0.69	-1260.94
			Max. Vy	20	-29.03	1264.39	-1.66
L23	61.08 - 60	Pole	Max. Vx	14	28.91	0.69	-1260.94
			Max. Torque	6			-0.89
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-55.74	0.07	-4.04
			Max. Mx	20	-28.29	1264.39	-1.66
			Max. My	14	-28.30	0.69	-1260.94
			Max. Vy	20	-29.03	1264.39	-1.66
			Max. Vx	14	28.91	0.69	-1260.94
			Max. Torque	6			-0.89
			Max Tension	1	0.00	0.00	0.00
L24	60 - 59.75	Pole	Max. Torque	6			-0.89
			Max Tension	1	0.00	0.00	0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L25	59.75 - 54.75	Pole	Max. Compression	26	-55.88	0.07	-4.06
			Max. Mx	20	-28.40	1271.65	-1.68
			Max. My	14	-28.41	0.70	-1268.17
			Max. Vy	20	-29.06	1271.65	-1.68
			Max. Vx	14	28.94	0.70	-1268.17
			Max. Torque	6			-0.89
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-58.71	0.07	-4.34
			Max. Mx	20	-30.37	1418.84	-2.05
			Max. My	14	-30.38	1.00	-1414.87
L26	54.75 - 49.75	Pole	Max. Vy	20	-29.84	1418.84	-2.05
			Max. Vx	14	29.73	1.00	-1414.87
			Max. Torque	6			-0.89
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-61.55	0.07	-4.60
			Max. Mx	20	-32.38	1569.85	-2.42
			Max. My	14	-32.39	1.29	-1565.41
			Max. Vy	20	-30.59	1569.85	-2.42
			Max. Vx	14	30.49	1.29	-1565.41
			Max. Torque	6			-0.89
L27	49.75 - 44.78	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-61.86	0.07	-4.63
			Max. Mx	20	-32.61	1586.69	-2.46
			Max. My	14	-32.62	1.32	-1582.20
			Max. Vy	20	-30.67	1586.69	-2.46
			Max. Vx	14	30.57	1.32	-1582.20
			Max. Torque	6			-0.89
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-66.85	0.07	-4.92
			Max. Mx	20	-36.49	1755.44	-2.86
L28	44.78 - 43.78	Pole	Max. My	14	-36.49	1.65	-1750.48
			Max. Vy	20	-31.60	1755.44	-2.86
			Max. Vx	14	31.50	1.65	-1750.48
			Max. Torque	6			-0.89
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-66.85	0.07	-4.92
			Max. Mx	20	-36.49	1755.44	-2.86
			Max. My	14	-36.49	1.65	-1750.48
			Max. Vy	20	-31.60	1755.44	-2.86
			Max. Vx	14	31.50	1.65	-1750.48
L29	43.78 - 38.78	Pole	Max. Torque	6			-0.89
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-69.72	0.07	-5.19
			Max. Mx	20	-38.67	1915.15	-3.23
			Max. My	14	-38.67	1.94	-1909.78
			Max. Vy	20	-32.32	1915.15	-3.23
			Max. Vx	14	32.22	1.94	-1909.78
			Max. Torque	6			-0.89
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-71.62	0.07	-5.38
L30	38.78 - 35.5	Pole	Max. Mx	20	-40.12	2021.86	-3.47
			Max. My	14	-40.12	2.14	-2016.24
			Max. Vy	20	-32.79	2021.86	-3.47
			Max. Vx	14	32.70	2.14	-2016.24
			Max. Torque	6			-0.89
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-71.76	0.07	-5.39
			Max. Mx	20	-40.24	2030.06	-3.49
			Max. My	14	-40.24	2.15	-2024.42
			Max. Vy	20	-32.81	2030.06	-3.49
L31	35.5 - 35.25	Pole	Max. Vx	14	32.72	2.15	-2024.42
			Max. Torque	6			-0.89
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-74.67	0.07	-5.67
			Max. Mx	20	-42.46	2195.81	-3.87
			Max. My	14	-42.47	2.45	-2189.79
			Max. Vy	20	-33.51	2195.81	-3.87
			Max. Vx	14	33.42	2.45	-2189.79
			Max. Torque	6			-0.89
			Max Tension	1	0.00	0.00	0.00
L32	35.25 - 30.25	Pole	Max. Compression	26	-77.59	0.07	-5.96
			Max. Mx	20	-44.73	2364.95	-4.24
			Max. My	14	-44.73	2.74	-2358.59
			Max. Vy	20	-34.18	2364.95	-4.24
			Max. Vx	14	34.10	2.74	-2358.59
			Max. Torque	6			-0.89
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-77.59	0.07	-5.96
			Max. Mx	20	-44.73	2364.95	-4.24
			Max. My	14	-44.73	2.74	-2358.59
L33	30.25 - 25.25	Pole	Max. Vy	20	-34.18	2364.95	-4.24
			Max. Vx	14	34.10	2.74	-2358.59
			Max. Torque	6			-0.89
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-77.59	0.07	-5.96
			Max. Mx	20	-44.73	2364.95	-4.24
			Max. My	14	-44.73	2.74	-2358.59
			Max. Vy	20	-34.18	2364.95	-4.24
			Max. Vx	14	34.10	2.74	-2358.59
			Max. Torque	6			-0.89

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L34	25.25 - 20.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-80.53	0.07	-6.25
			Max. Mx	20	-47.02	2537.38	-4.62
			Max. My	14	-47.02	3.04	-2530.69
			Max. Vy	20	-34.82	2537.38	-4.62
			Max. Vx	14	34.74	3.04	-2530.69
L35	20.25 - 15.75	Pole	Max. Torque	6			-0.89
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-83.19	0.07	-6.52
			Max. Mx	20	-49.11	2695.24	-4.96
			Max. My	14	-49.11	3.30	-2688.27
			Max. Vy	20	-35.37	2695.24	-4.96
L36	15.75 - 15.5	Pole	Max. Vx	14	35.30	3.30	-2688.27
			Max. Torque	6			-0.89
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-83.35	0.07	-6.53
			Max. Mx	20	-49.25	2704.08	-4.98
			Max. My	14	-49.25	3.32	-2697.10
L37	15.5 - 10.5	Pole	Max. Vy	20	-35.39	2704.08	-4.98
			Max. Vx	14	35.31	3.32	-2697.10
			Max. Torque	6			-0.89
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-86.51	0.07	-6.83
			Max. Mx	20	-51.78	2882.48	-5.35
L38	10.5 - 7.25	Pole	Max. My	14	-51.78	3.61	-2875.21
			Max. Vy	20	-36.00	2882.48	-5.35
			Max. Vx	14	35.92	3.61	-2875.21
			Max. Torque	6			-0.89
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-88.54	0.07	-6.98
L39	7.25 - 7	Pole	Max. Mx	20	-53.45	2999.73	-5.59
			Max. My	14	-53.45	3.80	-2992.58
			Max. Vy	20	-36.19	2999.73	-5.59
			Max. Vx	14	36.31	3.80	-2992.58
			Max. Torque	6			-0.89
			Max Tension	1	0.00	0.00	0.00
L40	7 - 5.83	Pole	Max. Compression	26	-88.70	0.07	-7.00
			Max. Mx	20	-53.58	3008.77	-5.61
			Max. My	14	-53.58	3.81	-3001.66
			Max. Vy	20	-36.19	3008.77	-5.61
			Max. Vx	14	36.31	3.81	-3001.66
			Max. Torque	6			-0.89
L41	5.83 - 5.58	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-89.56	0.07	-7.04
			Max. Mx	20	-54.30	3060.22	-5.70
			Max. My	14	-54.30	3.90	-3053.29
			Max. Vy	20	-36.28	3060.22	-5.70
			Max. Vx	14	36.42	3.90	-3053.29
L42	5.58 - 4.08	Pole	Max. Torque	6			-0.89
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-90.46	0.07	-7.04
			Max. Mx	20	-55.06	3114.70	-5.79
			Max. My	14	-55.06	3.98	-3108.05
			Max. Vy	20	-36.39	3114.70	-5.79
L43	4.08 - 3.83	Pole	Max. Vx	14	36.63	3.98	-3108.05
			Max. Torque	6			-0.89
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-90.61	0.07	-7.04
			Max. Mx	20	-55.20	3123.79	-5.81
			Max. My	14	-55.20	4.00	-3117.21
			Max. Vy	20	-36.39	3123.79	-5.81
			Max. Vx	14	36.64	4.00	-3117.21

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L44	3.83 - 0	Pole	Max. Torque	6			-0.89
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-92.85	0.07	-7.04
			Max. M _x	20	-57.13	3263.62	-6.03
			Max. M _y	14	-57.13	4.22	-3257.98
			Max. V _y	20	-36.65	3263.62	-6.03
			Max. V _x	14	36.90	4.22	-3257.98
			Max. Torque	6			-0.89

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	26	92.85	-0.00	-0.00
	Max. H _x	20	57.14	36.63	-0.06
	Max. H _z	2	57.14	-0.06	36.01
	Max. M _x	2	3233.01	-0.06	36.01
	Max. M _z	8	3255.99	-36.55	0.06
	Max. Torsion	18	0.88	32.28	-18.62
	Min. Vert	11	42.86	-31.25	-17.95
	Min. H _x	8	57.14	-36.55	0.06
	Min. H _z	14	57.14	0.06	-36.88
	Min. M _x	14	-3257.98	0.06	-36.88
	Min. M _z	20	-3263.62	36.63	-0.06
	Min. Torsion	6	-0.89	-32.96	19.01

Tower Mast Reaction Summary

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
Dead Only	47.62	0.00	0.00	1.33	-0.11	-0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	57.14	0.06	-36.01	-3233.01	-4.53	0.29
0.9 Dead+1.0 Wind 0 deg - No Ice	42.86	0.06	-36.01	-3203.79	-4.46	0.27
1.2 Dead+1.0 Wind 30 deg - No Ice	57.14	18.36	-31.66	-2817.65	-1635.49	0.55
0.9 Dead+1.0 Wind 30 deg - No Ice	42.86	18.36	-31.66	-2792.29	-1620.50	0.53
1.2 Dead+1.0 Wind 60 deg - No Ice	57.14	32.96	-19.01	-1678.17	-2914.12	0.89
0.9 Dead+1.0 Wind 60 deg - No Ice	42.86	32.96	-19.01	-1663.29	-2887.52	0.88
1.2 Dead+1.0 Wind 90 deg - No Ice	57.14	36.55	-0.06	-2.72	-3255.99	0.62
0.9 Dead+1.0 Wind 90 deg - No Ice	42.86	36.55	-0.06	-3.12	-3226.17	0.62
1.2 Dead+1.0 Wind 120 deg - No Ice	57.14	31.25	17.95	1615.19	-2808.06	0.38
0.9 Dead+1.0 Wind 120 deg - No Ice	42.86	31.25	17.95	1599.96	-2782.28	0.40
1.2 Dead+1.0 Wind 150 deg - No Ice	57.14	18.26	31.60	2816.58	-1627.91	0.04
0.9 Dead+1.0 Wind 150 deg - No Ice	42.86	18.26	31.60	2790.40	-1612.97	0.06
1.2 Dead+1.0 Wind 180 deg - No Ice	57.14	-0.06	36.88	3257.98	4.22	-0.32
0.9 Dead+1.0 Wind 180 deg - No Ice	42.86	-0.06	36.88	3227.80	4.24	-0.30
1.2 Dead+1.0 Wind 210 deg - No Ice	57.14	-18.32	31.58	2814.07	1631.21	-0.58
0.9 Dead+1.0 Wind 210 deg - No Ice	42.86	-18.32	31.58	2787.92	1616.34	-0.56
1.2 Dead+1.0 Wind 240 deg - No Ice	57.14	-32.28	18.62	1671.13	2895.90	-0.88
0.9 Dead+1.0 Wind 240 deg - No Ice	42.86	-32.28	18.62	1655.46	2869.49	-0.88
1.2 Dead+1.0 Wind 270 deg - No Ice	57.14	-36.63	0.06	6.03	3263.62	-0.59
0.9 Dead+1.0 Wind 270 deg - No Ice	42.86	-36.63	0.06	5.58	3233.82	-0.59
1.2 Dead+1.0 Wind 300 deg - No Ice	57.14	-32.00	-18.39	-1622.71	2826.52	-0.36
0.9 Dead+1.0 Wind 300 deg - No Ice	42.86	-32.00	-18.39	-1608.29	2800.73	-0.37
1.2 Dead+1.0 Wind 330 deg - No Ice	57.14	-18.22	-31.53	-2806.39	1623.63	-0.04
0.9 Dead+1.0 Wind 330 deg - No Ice	42.86	-18.22	-31.53	-2781.12	1608.81	-0.06
1.2 Dead+1.0 Ice+1.0 Temp	92.85	0.00	0.00	7.04	0.07	-0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	92.85	0.01	-6.95	-676.01	-0.30	0.17
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	92.85	3.50	-6.05	-586.62	-343.63	0.13
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	92.85	6.39	-3.69	-354.18	-626.63	0.17

Load Combination	Vertical	Shear _x	Shear _z	Overturning Moment, M _x	Overturning Moment, M _z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	92.85	6.98	-0.01	6.86	-685.39	-0.03
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	92.85	6.02	3.47	348.53	-592.53	-0.11
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	92.85	3.49	6.04	600.71	-342.98	-0.17
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	92.85	-0.01	6.98	692.89	0.46	-0.17
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	92.85	-3.49	6.03	599.97	343.14	-0.14
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	92.85	-6.36	3.67	367.45	624.70	-0.18
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	92.85	-6.99	0.01	7.62	686.84	0.03
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	92.85	-6.06	-3.49	-335.26	594.77	0.11
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	92.85	-3.48	-6.03	-585.12	342.49	0.16
Dead+Wind 0 deg - Service	47.62	0.01	-6.70	-597.57	-0.94	0.06
Dead+Wind 30 deg - Service	47.62	3.42	-5.89	-520.67	-302.94	0.10
Dead+Wind 60 deg - Service	47.62	6.13	-3.54	-309.69	-539.72	0.17
Dead+Wind 90 deg - Service	47.62	6.80	-0.01	0.56	-603.00	0.11
Dead+Wind 120 deg - Service	47.62	5.81	3.34	300.14	-520.05	0.07
Dead+Wind 150 deg - Service	47.62	3.40	5.88	522.60	-301.53	0.01
Dead+Wind 180 deg - Service	47.62	-0.01	6.86	604.34	0.68	-0.06
Dead+Wind 210 deg - Service	47.62	-3.41	5.88	522.14	301.94	-0.11
Dead+Wind 240 deg - Service	47.62	-6.01	3.46	310.52	536.14	-0.17
Dead+Wind 270 deg - Service	47.62	-6.82	0.01	2.18	604.21	-0.11
Dead+Wind 300 deg - Service	47.62	-5.96	-3.42	-299.41	523.28	-0.07
Dead+Wind 330 deg - Service	47.62	-3.39	-5.87	-518.58	300.54	-0.01

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	-47.62	0.00	0.00	47.62	0.00	0.000%
2	0.06	-57.14	-36.01	-0.06	57.14	36.01	0.000%
3	0.06	-42.86	-36.01	-0.06	42.86	36.01	0.000%
4	18.36	-57.14	-31.66	-18.36	57.14	31.66	0.000%
5	18.36	-42.86	-31.66	-18.36	42.86	31.66	0.000%
6	32.96	-57.14	-19.01	-32.96	57.14	19.01	0.000%
7	32.96	-42.86	-19.01	-32.96	42.86	19.01	0.000%
8	36.55	-57.14	-0.06	-36.55	57.14	0.06	0.000%
9	36.55	-42.86	-0.06	-36.55	42.86	0.06	0.000%
10	31.25	-57.14	17.95	-31.25	57.14	-17.95	0.000%
11	31.25	-42.86	17.95	-31.25	42.86	-17.95	0.000%
12	18.26	-57.14	31.60	-18.26	57.14	-31.60	0.000%
13	18.26	-42.86	31.60	-18.26	42.86	-31.60	0.000%
14	-0.06	-57.14	36.88	0.06	57.14	-36.88	0.000%
15	-0.06	-42.86	36.88	0.06	42.86	-36.88	0.000%
16	-18.32	-57.14	31.58	18.32	57.14	-31.58	0.000%
17	-18.32	-42.86	31.58	18.32	42.86	-31.58	0.000%
18	-32.28	-57.14	18.62	32.28	57.14	-18.62	0.000%
19	-32.28	-42.86	18.62	32.28	42.86	-18.62	0.000%
20	-36.63	-57.14	0.06	36.63	57.14	-0.06	0.000%
21	-36.63	-42.86	0.06	36.63	42.86	-0.06	0.000%
22	-32.00	-57.14	-18.39	32.00	57.14	18.39	0.000%
23	-32.00	-42.86	-18.39	32.00	42.86	18.39	0.000%
24	-18.22	-57.14	-31.53	18.22	57.14	31.53	0.000%
25	-18.22	-42.86	-31.53	18.22	42.86	31.53	0.000%
26	0.00	-92.85	0.00	-0.00	92.85	-0.00	0.000%
27	0.01	-92.85	-6.95	-0.01	92.85	6.95	0.000%
28	3.50	-92.85	-6.05	-3.50	92.85	6.05	0.000%
29	6.39	-92.85	-3.69	-6.39	92.85	3.69	0.000%
30	6.98	-92.85	-0.01	-6.98	92.85	0.01	0.000%
31	6.02	-92.85	3.47	-6.02	92.85	-3.47	0.000%
32	3.49	-92.85	6.04	-3.49	92.85	-6.04	0.000%
33	-0.01	-92.85	6.98	0.01	92.85	-6.98	0.000%
34	-3.49	-92.85	6.03	3.49	92.85	-6.03	0.000%
35	-6.36	-92.85	3.67	6.36	92.85	-3.67	0.000%
36	-6.99	-92.85	0.01	6.99	92.85	-0.01	0.000%
37	-6.06	-92.85	-3.49	6.06	92.85	3.49	0.000%
38	-3.48	-92.85	-6.03	3.48	92.85	6.03	0.000%
39	0.01	-47.62	-6.70	-0.01	47.62	6.70	0.000%

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
40	3.42	-47.62	-5.89	-3.42	47.62	5.89	0.000%
41	6.13	-47.62	-3.54	-6.13	47.62	3.54	0.000%
42	6.80	-47.62	-0.01	-6.80	47.62	0.01	0.000%
43	5.81	-47.62	3.34	-5.81	47.62	-3.34	0.000%
44	3.40	-47.62	5.88	-3.40	47.62	-5.88	0.000%
45	-0.01	-47.62	6.86	0.01	47.62	-6.86	0.000%
46	-3.41	-47.62	5.88	3.41	47.62	-5.88	0.000%
47	-6.01	-47.62	3.46	6.01	47.62	-3.46	0.000%
48	-6.82	-47.62	0.01	6.82	47.62	-0.01	0.000%
49	-5.96	-47.62	-3.42	5.96	47.62	3.42	0.000%
50	-3.39	-47.62	-5.87	3.39	47.62	5.87	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	0.00016098
3	Yes	5	0.0000001	0.00007199
4	Yes	6	0.0000001	0.00025308
5	Yes	6	0.0000001	0.00008289
6	Yes	6	0.0000001	0.00025729
7	Yes	6	0.0000001	0.00008317
8	Yes	5	0.0000001	0.00012150
9	Yes	5	0.0000001	0.00005446
10	Yes	6	0.0000001	0.00024857
11	Yes	6	0.0000001	0.00008144
12	Yes	6	0.0000001	0.00024988
13	Yes	6	0.0000001	0.00008171
14	Yes	5	0.0000001	0.00014657
15	Yes	5	0.0000001	0.00006511
16	Yes	6	0.0000001	0.00024465
17	Yes	6	0.0000001	0.00007995
18	Yes	6	0.0000001	0.00026595
19	Yes	6	0.0000001	0.00008641
20	Yes	5	0.0000001	0.00014324
21	Yes	5	0.0000001	0.00006497
22	Yes	6	0.0000001	0.00024705
23	Yes	6	0.0000001	0.00008077
24	Yes	6	0.0000001	0.00024603
25	Yes	6	0.0000001	0.00008058
26	Yes	4	0.0000001	0.00036290
27	Yes	6	0.0000001	0.00024326
28	Yes	6	0.0000001	0.00027432
29	Yes	6	0.0000001	0.00028940
30	Yes	6	0.0000001	0.00024761
31	Yes	6	0.0000001	0.00027948
32	Yes	6	0.0000001	0.00028119
33	Yes	6	0.0000001	0.00025019
34	Yes	6	0.0000001	0.00027892
35	Yes	6	0.0000001	0.00029414
36	Yes	6	0.0000001	0.00024668
37	Yes	6	0.0000001	0.00027379
38	Yes	6	0.0000001	0.00027209
39	Yes	4	0.0000001	0.00026221
40	Yes	5	0.0000001	0.00004882
41	Yes	5	0.0000001	0.00004692
42	Yes	4	0.0000001	0.00025287
43	Yes	5	0.0000001	0.00004684
44	Yes	5	0.0000001	0.00004726
45	Yes	4	0.0000001	0.00026315
46	Yes	5	0.0000001	0.00004418
47	Yes	5	0.0000001	0.00005283
48	Yes	4	0.0000001	0.00025427
49	Yes	5	0.0000001	0.00004530
50	Yes	5	0.0000001	0.00004505

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	135 - 130	15.246	41	1.0287	0.0040
L2	130 - 125	14.170	41	1.0253	0.0037
L3	125 - 120	13.100	41	1.0187	0.0033
L4	120 - 115	12.042	41	0.9988	0.0027
L5	115 - 110.5	11.013	41	0.9630	0.0021
L6	110.5 - 110	10.127	41	0.9170	0.0015
L7	110 - 109.75	10.031	41	0.9112	0.0014
L8	109.75 - 104.75	9.983	41	0.9095	0.0014
L9	104.75 - 99.75	9.051	41	0.8709	0.0011
L10	99.75 - 94.75	8.162	41	0.8265	0.0009
L11	94.75 - 90.92	7.322	41	0.7767	0.0007
L12	90.92 - 90.67	6.716	41	0.7340	0.0006
L13	90.67 - 83.08	6.678	41	0.7317	0.0006
L14	86.41 - 81.41	6.043	41	0.6900	0.0005
L15	81.41 - 76.41	5.336	41	0.6548	0.0005
L16	76.41 - 74.5	4.680	41	0.5982	0.0004
L17	74.5 - 74.25	4.445	41	0.5767	0.0004
L18	74.25 - 70.58	4.414	41	0.5748	0.0004
L19	70.58 - 70.33	3.984	41	0.5449	0.0003
L20	70.33 - 66.33	3.956	41	0.5429	0.0003
L21	66.33 - 66.08	3.515	41	0.5092	0.0003
L22	66.08 - 61.08	3.488	41	0.5073	0.0003
L23	61.08 - 60	2.978	41	0.4678	0.0003
L24	60 - 59.75	2.873	41	0.4595	0.0002
L25	59.75 - 54.75	2.849	41	0.4575	0.0002
L26	54.75 - 49.75	2.391	41	0.4167	0.0002
L27	49.75 - 44.78	1.977	41	0.3751	0.0002
L28	49.2 - 43.78	1.934	41	0.3706	0.0002
L29	43.78 - 38.78	1.526	41	0.3443	0.0002
L30	38.78 - 35.5	1.187	41	0.3033	0.0001
L31	35.5 - 35.25	0.988	41	0.2765	0.0001
L32	35.25 - 30.25	0.974	41	0.2745	0.0001
L33	30.25 - 25.25	0.708	41	0.2330	0.0001
L34	25.25 - 20.25	0.486	41	0.1918	0.0001
L35	20.25 - 15.75	0.306	41	0.1509	0.0001
L36	15.75 - 15.5	0.181	41	0.1143	0.0000
L37	15.5 - 10.5	0.176	41	0.1124	0.0000
L38	10.5 - 7.25	0.078	41	0.0739	0.0000
L39	7.25 - 7	0.036	41	0.0489	0.0000
L40	7 - 5.83	0.034	41	0.0470	0.0000
L41	5.83 - 5.58	0.023	41	0.0382	0.0000
L42	5.58 - 4.08	0.021	41	0.0366	0.0000
L43	4.08 - 3.83	0.011	41	0.0268	0.0000
L44	3.83 - 0	0.010	41	0.0252	0.0000

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
135.00	Lighting Rod 3/4" x 10'	41	15.246	1.0287	0.0040	58106
125.00	(2) EPBQ-654L8H8-L2 w/ Mount Pipe	41	13.100	1.0187	0.0033	23363
111.00	(3) 4' x 2" Pipe Mount	41	10.223	0.9234	0.0016	5963
97.00	APXVTM14-ALU-I20 w/ Mount Pipe	41	7.693	0.8005	0.0008	5696
87.00	(2) LPA-80080/4CF w/ Mount Pipe	41	6.129	0.6952	0.0006	7185
75.00	KS24019-L112A	41	4.505	0.5814	0.0004	5700

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	135 - 130	82.245	6	5.5398	0.0219
L2	130 - 125	76.468	6	5.5225	0.0200
L3	125 - 120	70.716	6	5.4882	0.0180
L4	120 - 115	65.030	6	5.3854	0.0147
L5	115 - 110.5	59.496	6	5.1971	0.0113
L6	110.5 - 110	54.718	6	4.9531	0.0082
L7	110 - 109.75	54.202	6	4.9220	0.0079
L8	109.75 - 104.75	53.945	6	4.9132	0.0078
L9	104.75 - 99.75	48.916	6	4.7068	0.0062
L10	99.75 - 94.75	44.120	6	4.4687	0.0048
L11	94.75 - 90.92	39.586	6	4.2008	0.0039
L12	90.92 - 90.67	36.312	6	3.9710	0.0034
L13	90.67 - 83.08	36.105	6	3.9587	0.0033
L14	86.41 - 81.41	32.677	6	3.7335	0.0029
L15	81.41 - 76.41	28.853	6	3.5435	0.0026
L16	76.41 - 74.5	25.305	6	3.2375	0.0021
L17	74.5 - 74.25	24.035	6	3.1211	0.0020
L18	74.25 - 70.58	23.872	6	3.1107	0.0020
L19	70.58 - 70.33	21.545	6	2.9487	0.0018
L20	70.33 - 66.33	21.391	6	2.9377	0.0018
L21	66.33 - 66.08	19.008	6	2.7553	0.0016
L22	66.08 - 61.08	18.864	6	2.7451	0.0016
L23	61.08 - 60	16.103	6	2.5312	0.0014
L24	60 - 59.75	15.536	6	2.4861	0.0013
L25	59.75 - 54.75	15.406	6	2.4755	0.0013
L26	54.75 - 49.75	12.931	6	2.2544	0.0011
L27	49.75 - 44.78	10.689	6	2.0292	0.0010
L28	49.2 - 43.78	10.457	6	2.0048	0.0010
L29	43.78 - 38.78	8.252	6	1.8624	0.0009
L30	38.78 - 35.5	6.419	6	1.6406	0.0007
L31	35.5 - 35.25	5.342	6	1.4956	0.0007
L32	35.25 - 30.25	5.264	6	1.4846	0.0006
L33	30.25 - 25.25	3.828	6	1.2600	0.0005
L34	25.25 - 20.25	2.626	6	1.0371	0.0004
L35	20.25 - 15.75	1.656	6	0.8159	0.0003
L36	15.75 - 15.5	0.981	6	0.6179	0.0002
L37	15.5 - 10.5	0.949	6	0.6076	0.0002
L38	10.5 - 7.25	0.422	6	0.3993	0.0001
L39	7.25 - 7	0.196	6	0.2642	0.0001
L40	7 - 5.83	0.183	6	0.2539	0.0001
L41	5.83 - 5.58	0.126	6	0.2065	0.0001
L42	5.58 - 4.08	0.116	6	0.1976	0.0001
L43	4.08 - 3.83	0.062	6	0.1451	0.0001
L44	3.83 - 0	0.055	6	0.1363	0.0000

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
135.00	Lighting Rod 3/4" x 10'	6	82.245	5.5398	0.0219	11445
125.00	(2) EPBQ-654L8H8-L2 w/ Mount Pipe	6	70.716	5.4882	0.0180	4616
111.00	(3) 4' x 2" Pipe Mount	6	55.237	4.9871	0.0086	1139
97.00	APXVTM14-ALU-I20 w/ Mount Pipe	6	41.591	4.3291	0.0044	1073
87.00	(2) LPA-80080/4CF w/ Mount Pipe	6	33.142	3.7616	0.0030	1345
75.00	KS24019-L112A	6	24.363	3.1461	0.0020	1061

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in ²	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
L1	135 - 130 (1)	TP16x16x0.465	5.00	0.00	0.0	22.6942	-0.93	857.84	0.001
L2	130 - 125 (2)	TP16x16x0.465	5.00	0.00	0.0	22.6942	-1.40	857.84	0.002
L3	125 - 120 (3)	TP16x16x0.465	5.00	0.00	0.0	22.6942	-4.99	857.84	0.006
L4	120 - 115 (4)	TP16x16x0.465	5.00	0.00	0.0	22.6942	-5.51	857.84	0.006
L5	115 - 110.5 (5)	TP16x16x0.465	4.50	0.00	0.0	22.6942	-8.75	857.84	0.010
L6	110.5 - 110 (6)	TP16x16x0.465	0.50	0.00	0.0	22.6942	-8.82	857.84	0.010
L7	110 - 109.75 (7)	TP16.0588x16x0.9	0.25	0.00	0.0	43.3026	-8.86	2533.20	0.003
L8	109.75 - 104.75 (8)	TP17.2345x16.0588x0.8125	5.00	0.00	0.0	42.3503	-9.61	2477.49	0.004
L9	104.75 - 99.75 (9)	TP18.4102x17.2345x0.7625	5.00	0.00	0.0	42.7105	-10.33	2498.57	0.004
L10	99.75 - 94.75 (10)	TP19.5859x18.4102x0.7125	5.00	0.00	0.0	42.6817	-14.95	2496.88	0.006
L11	94.75 - 90.92 (11)	TP20.4865x19.5859x0.675	3.83	0.00	0.0	42.4451	-15.62	2483.04	0.006
L12	90.92 - 90.67 (12)	TP20.5453x20.4865x0.8625	0.25	0.00	0.0	53.8831	-15.68	3152.16	0.005
L13	90.67 - 83.08 (13)	TP22.33x20.5453x0.8125	7.59	0.00	0.0	53.4716	-19.17	3128.09	0.006
L14	83.08 - 81.41 (14)	TP22.3332x21.172x0.85	5.00	0.00	0.0	57.9594	-20.96	3390.63	0.006
L15	81.41 - 76.41 (15)	TP23.4943x22.3332x0.8125	5.00	0.00	0.0	58.4937	-22.25	3421.88	0.007
L16	76.41 - 74.5 (16)	TP23.9379x23.4943x0.8	1.91	0.00	0.0	58.7518	-22.82	3436.98	0.007
L17	74.5 - 74.25 (17)	TP23.996x23.9379x1.275	0.25	0.00	0.0	91.9484	-22.93	5378.98	0.004
L18	74.25 - 70.58 (18)	TP24.8483x23.996x1.2	3.67	0.00	0.0	90.0716	-24.21	5269.19	0.005
L19	70.58 - 70.33 (19)	TP24.9063x24.8483x1.2	0.25	0.00	0.0	90.2927	-24.31	5282.13	0.005
L20	70.33 - 66.33 (20)	TP25.8353x24.9063x1.15	4.00	0.00	0.0	90.1038	-25.73	5271.07	0.005
L21	66.33 - 66.08 (21)	TP25.8934x25.8353x1.3	0.25	0.00	0.0	101.4770	-25.84	5936.41	0.004
L22	66.08 - 61.08 (22)	TP27.0545x25.8934x1.225	5.00	0.00	0.0	100.4290	-27.78	5875.10	0.005
L23	61.08 - 60 (23)	TP27.3054x27.0545x1.225	1.08	0.00	0.0	101.4040	-28.21	5932.15	0.005
L24	60 - 59.75 (24)	TP27.3634x27.3054x1.225	0.25	0.00	0.0	101.6300	-28.32	5945.36	0.005
L25	59.75 - 54.75 (25)	TP28.5246x27.3634x1.15	5.00	0.00	0.0	99.9200	-30.30	5845.32	0.005
L26	54.75 - 49.75 (26)	TP29.6858x28.5246x1.1	5.00	0.00	0.0	99.8044	-32.31	5838.56	0.006
L27	49.75 - 44.78 (27)	TP30.84x29.6858x1.1	4.97	0.00	0.0	100.2500	-32.55	5864.65	0.006
L28	44.78 - 43.78 (28)	TP30.5734x29.3135x1.1375	5.42	0.00	0.0	106.2760	-36.42	6217.15	0.006
L29	43.78 - 38.78 (29)	TP31.7356x30.5734x1.1125	5.00	0.00	0.0	108.1330	-38.61	6325.76	0.006
L30	38.78 - 35.5 (30)	TP32.4981x31.7356x1.0875	3.28	0.00	0.0	108.4210	-40.06	6342.61	0.006
L31	35.5 - 35.25 (31)	TP32.5562x32.4981x1.0875	0.25	0.00	0.0	108.6210	-40.19	6354.34	0.006
L32	35.25 - 30.25 (32)	TP33.7184x32.5562x1.0375	5.00	0.00	0.0	107.6190	-42.42	6295.72	0.007
L33	30.25 - 25.25 (33)	TP34.8807x33.7184x1.0125	5.00	0.00	0.0	108.8410	-44.69	6367.21	0.007
L34	25.25 - 20.25 (34)	TP36.0429x34.8807x0.9875	5.00	0.00	0.0	109.8750	-46.99	6427.69	0.007
L35	20.25 - 15.75 (35)	TP37.0889x36.0429x0.9625	4.50	0.00	0.0	110.3650	-49.08	6456.37	0.008
L36	15.75 - 15.5 (36)	TP37.147x37.0889x1.0125	0.25	0.00	0.0	116.1250	-49.22	6793.29	0.007
L37	15.5 - 10.5 (37)	TP38.3093x37.147x0.9875	5.00	0.00	0.0	115.5210	-50.76	6758.01	0.008
L38	10.5 - 7.25 (38)	TP39.0647x38.3093x0.9625	3.25	0.00	0.0	114.0930	-51.79	6674.47	0.008
L39	7.25 - 7 (39)	TP39.1229x39.0647x0.9625	0.25	0.00	0.0	116.4010	-53.45	6809.48	0.008
L40	7 - 5.83 (40)	TP39.3948x39.1229x0.9625	1.17	0.00	0.0	116.5790	-53.59	6819.87	0.008
L41	5.83 - 5.58 (41)	TP39.4529x39.3948x1.1125	0.25	0.00	0.0	135.1780	-54.17	7907.90	0.007
L42	5.58 - 4.08 (42)	TP39.8016x39.4529x1.1125	1.50	0.00	0.0	135.3830	-54.32	7919.90	0.007
L43	4.08 - 3.83 (43)	TP39.8597x39.8016x1.1125	0.25	0.00	0.0	136.6140	-55.07	7991.93	0.007
L44	3.83 - 0 (44)	TP40.75x39.8597x1.0875	3.83	0.00	0.0	133.8310	-55.21	7829.12	0.007

Pole Bending Design Data

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L1	135 - 130 (1)	TP16x16x0.465	12.19	353.60	0.034	0.00	353.60	0.000
L2	130 - 125 (2)	TP16x16x0.465	21.06	353.60	0.060	0.00	353.60	0.000
L3	125 - 120 (3)	TP16x16x0.465	70.12	353.60	0.198	0.00	353.60	0.000
L4	120 - 115 (4)	TP16x16x0.465	112.26	353.60	0.317	0.00	353.60	0.000
L5	115 - 110.5 (5)	TP16x16x0.465	147.82	353.60	0.418	0.00	353.60	0.000
L6	110.5 - 110 (6)	TP16x16x0.465	154.07	353.60	0.436	0.00	353.60	0.000
L7	110 - 109.75 (7)	TP16.0588x16x0.9	157.20	954.08	0.165	0.00	954.08	0.000

Section No.	Elevation ft	Size	M_{ux}	ϕM_{nx}	Ratio	M_{uy}	ϕM_{ny}	Ratio
			kip-ft	kip-ft	$\frac{M_{ux}}{\phi M_{nx}}$	kip-ft	kip-ft	$\frac{M_{uy}}{\phi M_{ny}}$
L8	109.75 - 104.75 (8)	TP17.2345x16.0588x0.8125	221.19	1020.38	0.217	0.00	1020.38	0.000
L9	104.75 - 99.75 (9)	TP18.4102x17.2345x0.7625	288.94	1112.51	0.260	0.00	1112.51	0.000
L10	99.75 - 94.75 (10)	TP19.5859x18.4102x0.7125	377.57	1195.22	0.316	0.00	1195.22	0.000
L11	94.75 - 90.92 (11)	TP20.4865x19.5859x0.675	452.38	1252.13	0.361	0.00	1252.13	0.000
L12	90.92 - 90.67 (12)	TP20.5453x20.4865x0.8625	457.34	1564.47	0.292	0.00	1564.47	0.000
L13	90.67 - 83.08 (13)	TP22.33x20.5453x0.8125	559.24	1642.77	0.340	0.00	1642.77	0.000
L14	83.08 - 81.41 (14)	TP22.3332x21.172x0.85	690.48	1844.26	0.374	0.00	1844.26	0.000
L15	81.41 - 76.41 (15)	TP23.4943x22.3332x0.8125	824.95	1972.22	0.418	0.00	1972.22	0.000
L16	76.41 - 74.5 (16)	TP23.9379x23.4943x0.8	877.04	2023.18	0.433	0.00	2023.18	0.000
L17	74.5 - 74.25 (17)	TP23.996x23.9379x1.275	883.95	3045.88	0.290	0.00	3045.88	0.000
L18	74.25 - 70.58 (18)	TP24.8483x23.996x1.2	986.61	3121.35	0.316	0.00	3121.35	0.000
L19	70.58 - 70.33 (19)	TP24.9063x24.8483x1.2	993.69	3137.07	0.317	0.00	3137.07	0.000
L20	70.33 - 66.33 (20)	TP25.8353x24.9063x1.15	1108.61	3272.34	0.339	0.00	3272.34	0.000
L21	66.33 - 66.08 (21)	TP25.8934x25.8353x1.3	1115.88	3649.78	0.306	0.00	3649.78	0.000
L22	66.08 - 61.08 (22)	TP27.0545x25.8934x1.225	1263.55	3813.33	0.331	0.00	3813.33	0.000
L23	61.08 - 60 (23)	TP27.3054x27.0545x1.225	1295.96	3889.45	0.333	0.00	3889.45	0.000
L24	60 - 59.75 (24)	TP27.3634x27.3054x1.225	1303.48	3907.18	0.334	0.00	3907.18	0.000
L25	59.75 - 54.75 (25)	TP28.5246x27.3634x1.15	1456.05	4041.85	0.360	0.00	4041.85	0.000
L26	54.75 - 49.75 (26)	TP29.6858x28.5246x1.1	1612.45	4230.13	0.381	0.00	4230.13	0.000
L27	49.75 - 44.78 (27)	TP30.84x29.6858x1.1	1629.89	4268.72	0.382	0.00	4268.72	0.000
L28	44.78 - 43.78 (28)	TP30.5734x29.3135x1.1375	1804.52	4637.65	0.389	0.00	4637.65	0.000
L29	43.78 - 38.78 (29)	TP31.7356x30.5734x1.1125	1969.68	4919.95	0.400	0.00	4919.95	0.000
L30	38.78 - 35.5 (30)	TP32.4981x31.7356x1.0875	2079.97	5068.25	0.410	0.00	5068.25	0.000
L31	35.5 - 35.25 (31)	TP32.5562x32.4981x1.0875	2088.44	5087.33	0.411	0.00	5087.33	0.000
L32	35.25 - 30.25 (32)	TP33.7184x32.5562x1.0375	2259.64	5248.83	0.431	0.00	5248.83	0.000
L33	30.25 - 25.25 (33)	TP34.8807x33.7184x1.0125	2434.25	5511.18	0.442	0.00	5511.18	0.000
L34	25.25 - 20.25 (34)	TP36.0429x34.8807x0.9875	2612.13	5768.22	0.453	0.00	5768.22	0.000
L35	20.25 - 15.75 (35)	TP37.0889x36.0429x0.9625	2774.88	5979.85	0.464	0.00	5979.85	0.000
L36	15.75 - 15.5 (36)	TP37.147x37.0889x1.0125	2784.00	6284.88	0.443	0.00	6284.88	0.000
L37	15.5 - 10.5 (37)	TP38.3093x37.147x0.9875	2893.95	6384.85	0.453	0.00	6384.85	0.000
L38	10.5 - 7.25 (38)	TP39.0647x38.3093x0.9625	2967.84	6396.10	0.464	0.00	6396.10	0.000
L39	7.25 - 7 (39)	TP39.1229x39.0647x0.9625	3088.93	6660.80	0.464	0.00	6660.80	0.000
L40	7 - 5.83 (40)	TP39.3948x39.1229x0.9625	3098.30	6681.38	0.464	0.00	6681.38	0.000
L41	5.83 - 5.58 (41)	TP39.4529x39.3948x1.1125	3142.18	7743.10	0.406	0.00	7743.10	0.000
L42	5.58 - 4.08 (42)	TP39.8016x39.4529x1.1125	3151.57	7766.96	0.406	0.00	7766.96	0.000
L43	4.08 - 3.83 (43)	TP39.8597x39.8016x1.1125	3208.09	7910.87	0.406	0.00	7910.87	0.000
L44	3.83 - 0 (44)	TP40.75x39.8597x1.0875	3217.54	7771.70	0.414	0.00	7771.70	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual	ϕV_n	Ratio	Actual	ϕT_n	Ratio
			V_u K	K	$\frac{V_u}{\phi V_n}$	T_u kip-ft	kip-ft	$\frac{T_u}{\phi T_n}$
L1	135 - 130 (1)	TP16x16x0.465	1.63	257.35	0.006	0.44	351.49	0.001
L2	130 - 125 (2)	TP16x16x0.465	1.92	257.35	0.007	0.44	351.49	0.001
L3	125 - 120 (3)	TP16x16x0.465	8.29	257.35	0.032	0.61	351.49	0.002
L4	120 - 115 (4)	TP16x16x0.465	8.56	257.35	0.033	0.61	351.49	0.002
L5	115 - 110.5 (5)	TP16x16x0.465	12.49	257.35	0.049	0.61	351.49	0.002
L6	110.5 - 110 (6)	TP16x16x0.465	12.51	257.35	0.049	0.61	351.49	0.002
L7	110 - 109.75 (7)	TP16.0588x16x0.9	12.53	759.96	0.016	0.61	1008.87	0.001
L8	109.75 - 104.75 (8)	TP17.2345x16.0588x0.8125	13.07	743.25	0.018	0.61	1068.91	0.001
L9	104.75 - 99.75 (9)	TP18.4102x17.2345x0.7625	13.99	749.57	0.019	0.76	1158.46	0.001
L10	99.75 - 94.75 (10)	TP19.5859x18.4102x0.7125	19.26	749.06	0.026	0.80	1238.08	0.001
L11	94.75 - 90.92 (11)	TP20.4865x19.5859x0.675	19.84	744.91	0.027	0.83	1292.42	0.001
L12	90.92 - 90.67 (12)	TP20.5453x20.4865x0.8625	19.87	945.65	0.021	0.83	1630.03	0.001
L13	90.67 - 83.08 (13)	TP22.33x20.5453x0.8125	25.90	938.43	0.028	0.83	1704.02	0.000
L14	83.08 - 81.41 (14)	TP22.3332x21.172x0.85	26.61	1017.19	0.026	0.83	1913.72	0.000
L15	81.41 - 76.41 (15)	TP23.4943x22.3332x0.8125	27.23	1026.56	0.027	0.83	2039.13	0.000
L16	76.41 - 74.5 (16)	TP23.9379x23.4943x0.8	27.62	1031.09	0.027	0.84	2089.31	0.000
L17	74.5 - 74.25 (17)	TP23.996x23.9379x1.275	27.65	1613.69	0.017	0.84	3210.91	0.000
L18	74.25 - 70.58 (18)	TP24.8483x23.996x1.2	28.33	1580.76	0.018	0.86	3273.74	0.000
L19	70.58 - 70.33 (19)	TP24.9063x24.8483x1.2	28.37	1584.64	0.018	0.87	3289.84	0.000
L20	70.33 - 66.33 (20)	TP25.8353x24.9063x1.15	29.12	1581.32	0.018	0.89	3418.53	0.000
L21	66.33 - 66.08 (21)	TP25.8934x25.8353x1.3	29.16	1780.92	0.016	0.89	3835.68	0.000
L22	66.08 - 61.08 (22)	TP27.0545x25.8934x1.225	29.94	1762.53	0.017	0.89	3986.88	0.000

Section No.	Elevation ft	Size	Actual	ϕV_n	Ratio	Actual	ϕT_n	Ratio
			V_u K	K	V_u ϕV_n	T_u kip-ft	T_u ϕT_n	
L23	61.08 - 60 (23)	TP27.3054x27.0545x1.225	30.11	1779.65	0.017	0.89	4064.68	0.000
L24	60 - 59.75 (24)	TP27.3634x27.3054x1.225	30.14	1783.61	0.017	0.89	4082.81	0.000
L25	59.75 - 54.75 (25)	TP28.5246x27.3634x1.15	30.92	1753.60	0.018	0.89	4203.95	0.000
L26	54.75 - 49.75 (26)	TP29.6858x28.5246x1.1	31.68	1751.57	0.018	0.89	4384.88	0.000
L27	49.75 - 44.78 (27)	TP30.84x29.6858x1.1	31.76	1759.39	0.018	0.89	4424.14	0.000
L28	44.78 - 43.78 (28)	TP30.5734x29.3135x1.1375	32.69	1865.14	0.018	0.89	4808.06	0.000
L29	43.78 - 38.78 (29)	TP31.7356x30.5734x1.1125	33.42	1897.73	0.018	0.89	5089.36	0.000
L30	38.78 - 35.5 (30)	TP32.4981x31.7356x1.0875	33.88	1902.78	0.018	0.89	5234.13	0.000
L31	35.5 - 35.25 (31)	TP32.5562x32.4981x1.0875	33.91	1906.30	0.018	0.89	5253.52	0.000
L32	35.25 - 30.25 (32)	TP33.7184x32.5562x1.0375	34.61	1888.72	0.018	0.89	5405.56	0.000
L33	30.25 - 25.25 (33)	TP34.8807x33.7184x1.0125	35.28	1910.16	0.018	0.89	5665.56	0.000
L34	25.25 - 20.25 (34)	TP36.0429x34.8807x0.9875	35.92	1928.31	0.019	0.89	5919.86	0.000
L35	20.25 - 15.75 (35)	TP37.0889x36.0429x0.9625	36.47	1938.91	0.019	0.89	6127.94	0.000
L36	15.75 - 15.5 (36)	TP37.147x37.0889x1.0125	36.49	2037.99	0.018	0.89	6449.17	0.000
L37	15.5 - 10.5 (37)	TP38.3093x37.147x0.9875	36.97	2040.19	0.018	0.89	6543.92	0.000
L38	10.5 - 7.25 (38)	TP39.0647x38.3093x0.9625	37.22	2015.84	0.018	0.89	6548.94	0.000
L39	7.25 - 7 (39)	TP39.1229x39.0647x0.9625	37.48	2045.96	0.018	0.89	6816.57	0.000
L40	7 - 5.83 (40)	TP39.3948x39.1229x0.9625	37.57	2060.54	0.018	0.89	6837.38	0.000
L41	5.83 - 5.58 (41)	TP39.4529x39.3948x1.1125	37.59	2375.97	0.016	0.89	7953.54	0.000
L42	5.58 - 4.08 (42)	TP39.8016x39.4529x1.1125	37.80	2397.58	0.016	0.89	7977.71	0.000
L43	4.08 - 3.83 (43)	TP39.8597x39.8016x1.1125	37.81	2401.18	0.016	0.89	8123.47	0.000
L44	3.83 - 0 (44)	TP40.75x39.8597x1.0875	37.91	2366.71	0.016	0.89	7975.07	0.000

Pole Interaction Design Data

Section No.	Elevation ft	Ratio	Ratio	Ratio	Ratio	Ratio	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
		P_u ϕP_n	M_{ux} ϕM_{nx}	M_{uy} ϕM_{ny}	V_u ϕV_n	T_u ϕT_n			
L1	135 - 130 (1)	0.001	0.034	0.000	0.006	0.001	0.036	1.050	4.8.2
L2	130 - 125 (2)	0.002	0.060	0.000	0.007	0.001	0.061	1.050	4.8.2
L3	125 - 120 (3)	0.006	0.198	0.000	0.032	0.002	0.205	1.050	4.8.2
L4	120 - 115 (4)	0.006	0.317	0.000	0.033	0.002	0.325	1.050	4.8.2
L5	115 - 110.5 (5)	0.010	0.418	0.000	0.049	0.002	0.431	1.050	4.8.2
L6	110.5 - 110 (6)	0.010	0.436	0.000	0.049	0.002	0.449	1.050	4.8.2
L7	110 - 109.75 (7)	0.003	0.165	0.000	0.016	0.001	0.169	1.050	4.8.2
L8	109.75 - 104.75 (8)	0.004	0.217	0.000	0.018	0.001	0.221	1.050	4.8.2
L9	104.75 - 99.75 (9)	0.004	0.260	0.000	0.019	0.001	0.264	1.050	4.8.2
L10	99.75 - 94.75 (10)	0.006	0.316	0.000	0.026	0.001	0.323	1.050	4.8.2
L11	94.75 - 90.92 (11)	0.006	0.361	0.000	0.027	0.001	0.368	1.050	4.8.2
L12	90.92 - 90.67 (12)	0.005	0.292	0.000	0.021	0.001	0.298	1.050	4.8.2
L13	90.67 - 83.08 (13)	0.006	0.340	0.000	0.028	0.000	0.347	1.050	4.8.2
L14	83.08 - 81.41 (14)	0.006	0.374	0.000	0.026	0.000	0.381	1.050	4.8.2
L15	81.41 - 76.41 (15)	0.007	0.418	0.000	0.027	0.000	0.426	1.050	4.8.2
L16	76.41 - 74.5 (16)	0.007	0.433	0.000	0.027	0.000	0.441	1.050	4.8.2
L17	74.5 - 74.25 (17)	0.004	0.290	0.000	0.017	0.000	0.295	1.050	4.8.2
L18	74.25 - 70.58 (18)	0.005	0.316	0.000	0.018	0.000	0.321	1.050	4.8.2
L19	70.58 - 70.33 (19)	0.005	0.317	0.000	0.018	0.000	0.322	1.050	4.8.2
L20	70.33 - 66.33 (20)	0.005	0.339	0.000	0.018	0.000	0.344	1.050	4.8.2
L21	66.33 - 66.08 (21)	0.004	0.306	0.000	0.016	0.000	0.310	1.050	4.8.2
L22	66.08 - 61.08 (22)	0.005	0.331	0.000	0.017	0.000	0.336	1.050	4.8.2
L23	61.08 - 60 (23)	0.005	0.333	0.000	0.017	0.000	0.338	1.050	4.8.2
L24	60 - 59.75 (24)	0.005	0.334	0.000	0.017	0.000	0.339	1.050	4.8.2
L25	59.75 - 54.75 (25)	0.005	0.360	0.000	0.018	0.000	0.366	1.050	4.8.2
L26	54.75 - 49.75 (26)	0.006	0.381	0.000	0.018	0.000	0.387	1.050	4.8.2
L27	49.75 - 44.78 (27)	0.006	0.382	0.000	0.018	0.000	0.388	1.050	4.8.2
L28	44.78 - 43.78 (28)	0.006	0.389	0.000	0.018	0.000	0.395	1.050	4.8.2
L29	43.78 - 38.78 (29)	0.006	0.400	0.000	0.018	0.000	0.407	1.050	4.8.2
L30	38.78 - 35.5 (30)	0.006	0.410	0.000	0.018	0.000	0.417	1.050	4.8.2
L31	35.5 - 35.25 (31)	0.006	0.411	0.000	0.018	0.000	0.417	1.050	4.8.2
L32	35.25 - 30.25 (32)	0.007	0.431	0.000	0.018	0.000	0.438	1.050	4.8.2
L33	30.25 - 25.25 (33)	0.007	0.442	0.000	0.018	0.000	0.449	1.050	4.8.2
L34	25.25 - 20.25 (34)	0.007	0.453	0.000	0.019	0.000	0.461	1.050	4.8.2
L35	20.25 - 15.75 (35)	0.008	0.464	0.000	0.019	0.000	0.472	1.050	4.8.2
L36	15.75 - 15.5 (36)	0.007	0.443	0.000	0.018	0.000	0.451	1.050	4.8.2

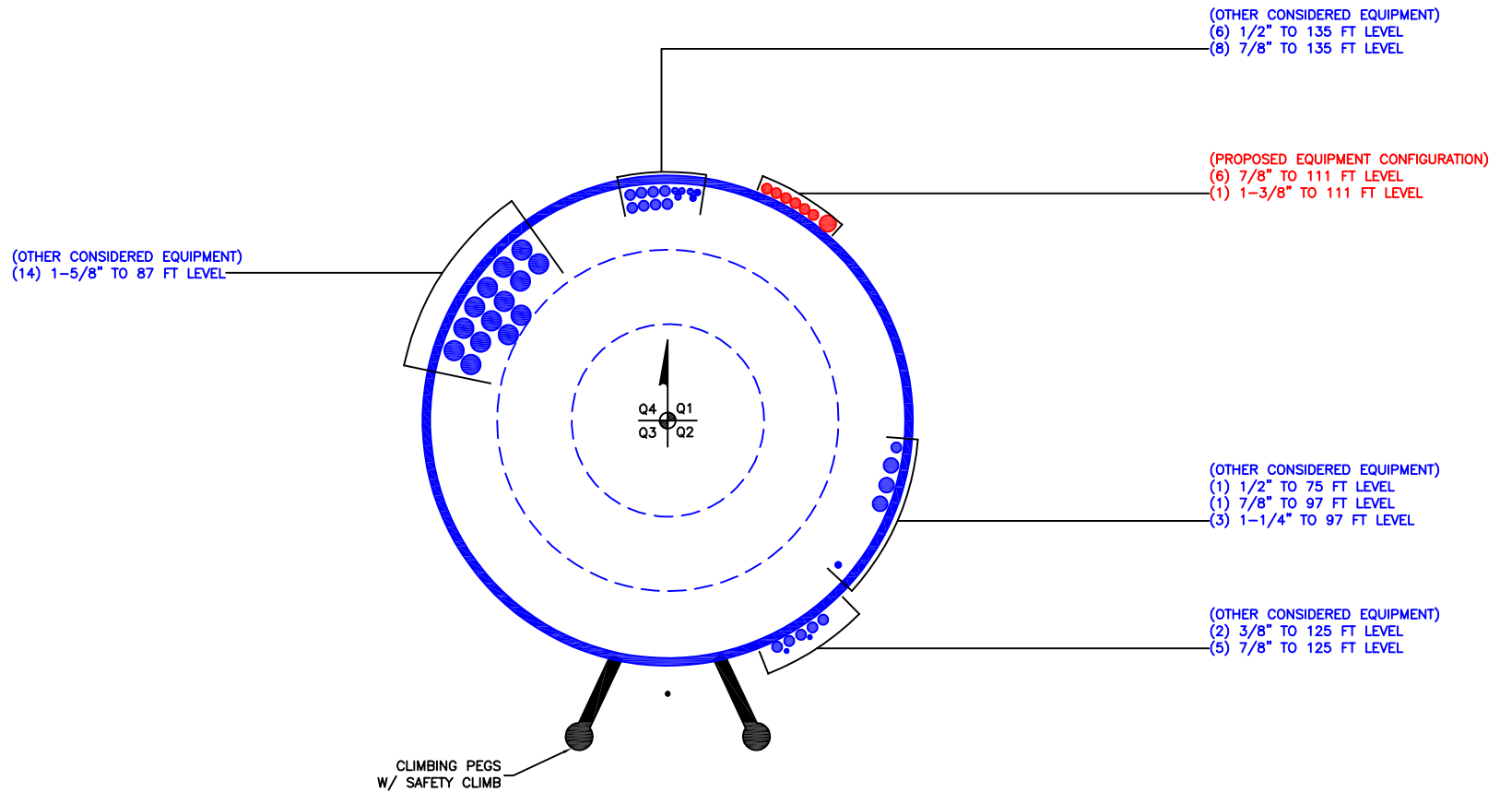
Section No.	Elevation ft	Ratio	Ratio	Ratio	Ratio	Ratio	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
		P_u	M_{ux}	M_{uy}	V_u	T_u			
		ϕP_n	ϕM_{nx}	ϕM_{ny}	ϕV_n	ϕT_n			
L37	15.5 - 10.5 (37)	0.008	0.453	0.000	0.018	0.000	0.461	1.050	4.8.2
L38	10.5 - 7.25 (38)	0.008	0.464	0.000	0.018	0.000	0.472	1.050	4.8.2
L39	7.25 - 7 (39)	0.008	0.464	0.000	0.018	0.000	0.472	1.050	4.8.2
L40	7 - 5.83 (40)	0.008	0.464	0.000	0.018	0.000	0.472	1.050	4.8.2
L41	5.83 - 5.58 (41)	0.007	0.406	0.000	0.016	0.000	0.413	1.050	4.8.2
L42	5.58 - 4.08 (42)	0.007	0.406	0.000	0.016	0.000	0.413	1.050	4.8.2
L43	4.08 - 3.83 (43)	0.007	0.406	0.000	0.016	0.000	0.413	1.050	4.8.2
L44	3.83 - 0 (44)	0.007	0.414	0.000	0.016	0.000	0.421	1.050	4.8.2

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail	
L1	135 - 130	Pole	TP16x16x0.465	1	-0.93	900.73	3.4	Pass	
L2	130 - 125	Pole	TP16x16x0.465	2	-1.40	900.73	5.8	Pass	
L3	125 - 120	Pole	TP16x16x0.465	3	-4.99	900.73	19.6	Pass	
L4	120 - 115	Pole	TP16x16x0.465	4	-5.51	900.73	31.0	Pass	
L5	115 - 110.5	Pole	TP16x16x0.465	5	-8.75	900.73	41.0	Pass	
L6	110.5 - 110	Pole	TP16x16x0.465	6	-8.82	900.73	42.7	Pass	
L7	110 - 109.75	Pole	TP16.0588x16x0.9	7	-8.86	2659.86	16.1	Pass	
L8	109.75 - 104.75	Pole	TP17.2345x16.0588x0.8125	8	-9.61	2601.36	21.0	Pass	
L9	104.75 - 99.75	Pole	TP18.4102x17.2345x0.7625	9	-10.33	2623.50	25.2	Pass	
L10	99.75 - 94.75	Pole	TP19.5859x18.4102x0.7125	10	-14.95	2621.72	30.7	Pass	
L11	94.75 - 90.92	Pole	TP20.4865x19.5859x0.675	11	-15.62	2607.19	35.1	Pass	
L12	90.92 - 90.67	Pole	TP20.5453x20.4865x0.8625	12	-15.68	3309.77	28.4	Pass	
L13	90.67 - 83.08	Pole	TP22.33x20.5453x0.8125	13	-19.17	3284.49	33.1	Pass	
L14	83.08 - 81.41	Pole	TP22.3332x21.172x0.85	14	-20.96	3560.16	36.3	Pass	
L15	81.41 - 76.41	Pole	TP23.4943x22.3332x0.8125	15	-22.25	3592.97	40.5	Pass	
L16	76.41 - 74.5	Pole	TP23.9379x23.4943x0.8	16	-22.82	3608.83	42.0	Pass	
L17	74.5 - 74.25	Pole	TP23.996x23.9379x1.275	17	-22.93	5647.93	28.1	Pass	
L18	74.25 - 70.58	Pole	TP24.8483x23.996x1.2	18	-24.21	5532.65	30.6	Pass	
L19	70.58 - 70.33	Pole	TP24.9063x24.8483x1.2	19	-24.31	5546.24	30.6	Pass	
L20	70.33 - 66.33	Pole	TP25.8353x24.9063x1.15	20	-25.73	5534.62	32.8	Pass	
L21	66.33 - 66.08	Pole	TP25.8934x25.8353x1.3	21	-25.84	6233.23	29.6	Pass	
L22	66.08 - 61.08	Pole	TP27.0545x25.8934x1.225	22	-27.78	6168.85	32.0	Pass	
L23	61.08 - 60	Pole	TP27.3054x27.0545x1.225	23	-28.21	6228.76	32.2	Pass	
L24	60 - 59.75	Pole	TP27.3634x27.3054x1.225	24	-28.32	6242.63	32.3	Pass	
L25	59.75 - 54.75	Pole	TP28.5246x27.3634x1.15	25	-30.30	6137.59	34.8	Pass	
L26	54.75 - 49.75	Pole	TP29.6858x28.5246x1.1	26	-32.31	6130.49	36.9	Pass	
L27	49.75 - 44.78	Pole	TP30.84x29.6858x1.1	27	-32.55	6157.88	36.9	Pass	
L28	44.78 - 43.78	Pole	TP30.5734x29.3135x1.1375	28	-36.42	6528.01	37.6	Pass	
L29	43.78 - 38.78	Pole	TP31.7356x30.5734x1.1125	29	-38.61	6642.05	38.7	Pass	
L30	38.78 - 35.5	Pole	TP32.4981x31.7356x1.0875	30	-40.06	6659.74	39.7	Pass	
L31	35.5 - 35.25	Pole	TP32.5562x32.4981x1.0875	31	-40.19	6672.06	39.7	Pass	
L32	35.25 - 30.25	Pole	TP33.7184x32.5562x1.0375	32	-42.42	6610.51	41.7	Pass	
L33	30.25 - 25.25	Pole	TP34.8807x33.7184x1.0125	33	-44.69	6685.57	42.8	Pass	
L34	25.25 - 20.25	Pole	TP36.0429x34.8807x0.9875	34	-46.99	6749.07	43.9	Pass	
L35	20.25 - 15.75	Pole	TP37.0889x36.0429x0.9625	35	-49.08	6779.19	45.0	Pass	
L36	15.75 - 15.5	Pole	TP37.147x37.0889x1.0125	36	-49.22	7132.95	42.9	Pass	
L37	15.5 - 10.5	Pole	TP38.3093x37.147x0.9875	37	-50.76	7095.91	43.9	Pass	
L38	10.5 - 7.25	Pole	TP39.0647x38.3093x0.9625	38	-51.79	7008.19	45.0	Pass	
L39	7.25 - 7	Pole	TP39.1229x39.0647x0.9625	39	-53.45	7149.95	44.9	Pass	
L40	7 - 5.83	Pole	TP39.3948x39.1229x0.9625	40	-53.59	7160.86	44.9	Pass	
L41	5.83 - 5.58	Pole	TP39.4529x39.3948x1.1125	41	-54.17	8303.29	39.3	Pass	
L42	5.58 - 4.08	Pole	TP39.8016x39.4529x1.1125	42	-54.32	8315.89	39.3	Pass	
L43	4.08 - 3.83	Pole	TP39.8597x39.8016x1.1125	43	-55.07	8391.53	39.3	Pass	
L44	3.83 - 0	Pole	TP40.75x39.8597x1.0875	44	-55.21	8220.58	40.1	Pass	
							Summary		
							Pole (L38)	45.0	Pass
							RATING =	45.0	Pass

***NOTE: Above stress ratios for reinforced sections are approximate. More exact calculations are presented in Appendix C.**

APPENDIX B
BASE LEVEL DRAWING



APPENDIX C
ADDITIONAL CALCULATIONS

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	135 - 130	5		0	16.000	16.000	0.465	A53-B-42	1.000
2	130 - 125	5		0	16.000	16.000	0.465	A53-B-42	1.000
3	125 - 120	5		0	16.000	16.000	0.465	A53-B-42	1.000
4	120 - 115	5		0	16.000	16.000	0.465	A53-B-42	1.000
5	115 - 110.5	4.5	0	0	16.000	16.000	0.465	A53-B-42	1.000
6	110.5 - 110	0.5	0	0	16.000	16.000	0.465	A53-B-42	1.000
7	110 - 109.75	0.25		18	16.000	16.059	0.9	A572-65	0.781
8	109.75 - 104.75	5		18	16.059	17.234	0.8125	A572-65	0.815
9	104.75 - 99.75	5		18	17.234	18.410	0.7625	A572-65	0.825
10	99.75 - 94.75	5		18	18.410	19.586	0.7125	A572-65	0.842
11	94.75 - 90.92	3.83		18	19.586	20.486	0.675	A572-65	0.859
12	90.92 - 90.67	0.25		18	20.486	20.545	0.8625	A572-65	0.816
13	90.67 - 86.41	7.59	3.33	18	20.545	22.330	0.8125	A572-65	0.834
14	86.41 - 81.41	5		18	21.172	22.333	0.85	A572-65	0.852
15	81.41 - 76.41	5		18	22.333	23.494	0.8125	A572-65	0.860
16	76.41 - 74.5	1.91		18	23.494	23.938	0.8	A572-65	0.862
17	74.5 - 74.25	0.25		18	23.938	23.996	1.275	A572-65	0.817
18	74.25 - 70.58	3.67		18	23.996	24.848	1.2	A572-65	0.841
19	70.58 - 70.33	0.25		18	24.848	24.906	1.2	A572-65	0.840
20	70.33 - 66.33	4		18	24.906	25.835	1.15	A572-65	0.850
21	66.33 - 66.08	0.25		18	25.835	25.893	1.3	A572-65	0.829
22	66.08 - 61.08	5		18	25.893	27.055	1.225	A572-65	0.847
23	61.08 - 60	1.08		18	27.055	27.305	1.225	A572-65	0.840
24	60 - 59.75	0.25		18	27.305	27.363	1.225	A572-65	0.839
25	59.75 - 54.75	5		18	27.363	28.525	1.15	A572-65	0.863
26	54.75 - 49.75	5		18	28.525	29.686	1.1	A572-65	0.873
27	49.75 - 49.2	4.97	4.42	18	29.686	30.840	1.1	A572-65	0.870
28	49.2 - 43.78	5.42		18	29.314	30.573	1.1375	A572-65	0.882
29	43.78 - 38.78	5		18	30.573	31.736	1.1125	A572-65	0.878
30	38.78 - 35.5	3.28		18	31.736	32.498	1.0875	A572-65	0.882
31	35.5 - 35.25	0.25		18	32.498	32.556	1.0875	A572-65	0.881
32	35.25 - 30.25	5		18	32.556	33.718	1.0375	A572-65	0.900
33	30.25 - 25.25	5		18	33.718	34.881	1.0125	A572-65	0.901
34	25.25 - 20.25	5		18	34.881	36.043	0.9875	A572-65	0.903
35	20.25 - 15.75	4.5		18	36.043	37.089	0.9625	A572-65	0.908
36	15.75 - 15.5	0.25		18	37.089	37.147	1.0125	A572-65	0.950
37	15.5 - 10.5	5		18	37.147	38.309	0.9875	A572-65	0.953
38	10.5 - 7.25	3.25		18	38.309	39.065	0.9625	A572-65	0.964
39	7.25 - 7	0.25		18	39.065	39.123	0.9625	A572-65	0.947
40	7 - 5.83	1.17		18	39.123	39.395	0.9625	A572-65	0.942
41	5.83 - 5.58	0.25		18	39.395	39.453	1.1125	A572-65	0.892
42	5.58 - 4.08	1.5		18	39.453	39.802	1.1125	A572-65	0.886
43	4.08 - 3.83	0.25		18	39.802	39.860	1.1125	A572-65	0.871
44	3.83 - 0	3.83		18	39.860	40.750	1.0875	A572-65	0.877

TNX Section Forces

Increment (ft):		TNX Output			
	5	Section Height (ft)	P _u (K)	M _{ux} (kip-ft)	V _u (K)
1	135 - 130		0.93	12.19	1.63
2	130 - 125		1.40	21.06	1.92
3	125 - 120		4.99	70.12	8.29
4	120 - 115		5.51	112.26	8.56
5	115 - 110.5		8.75	147.81	12.49
6	110.5 - 110		8.82	154.07	12.51
7	110 - 109.75		8.86	157.20	12.53
8	109.75 - 104.75		9.61	221.19	13.07
9	104.75 - 99.75		10.33	288.94	13.99
10	99.75 - 94.75		14.95	377.57	19.26
11	94.75 - 90.92		15.62	452.38	19.84
12	90.92 - 90.67		15.68	457.34	19.87
13	90.67 - 86.41		19.17	559.24	25.90
14	86.41 - 81.41		20.96	690.48	26.61
15	81.41 - 76.41		22.25	824.95	27.23
16	76.41 - 74.5		22.82	877.04	27.62
17	74.5 - 74.25		22.93	883.95	27.65
18	74.25 - 70.58		24.21	986.61	28.33
19	70.58 - 70.33		24.31	993.69	28.37
20	70.33 - 66.33		25.73	1108.60	29.12
21	66.33 - 66.08		25.84	1115.89	29.16
22	66.08 - 61.08		27.78	1263.55	29.94
23	61.08 - 60		28.21	1295.96	30.11
24	60 - 59.75		28.32	1303.48	30.14
25	59.75 - 54.75		30.30	1456.05	30.92
26	54.75 - 49.75		32.31	1612.45	31.68
27	49.75 - 49.2		32.55	1629.89	31.76
28	49.2 - 43.78		36.42	1804.52	32.69
29	43.78 - 38.78		38.61	1969.68	33.42
30	38.78 - 35.5		40.06	2079.97	33.88
31	35.5 - 35.25		40.19	2088.44	33.91
32	35.25 - 30.25		42.42	2259.64	34.61
33	30.25 - 25.25		44.69	2434.25	35.28
34	25.25 - 20.25		46.99	2612.13	35.92
35	20.25 - 15.75		49.08	2774.89	36.47
36	15.75 - 15.5		49.22	2784.00	36.49
37	15.5 - 10.5		51.76	2967.84	37.09
38	10.5 - 7.25		53.44	3088.93	37.48
39	7.25 - 7		53.57	3098.30	37.48
40	7 - 5.83		54.15	3142.18	37.57
41	5.83 - 5.58		54.30	3151.58	37.59
42	5.58 - 4.08		55.05	3208.09	37.80
43	4.08 - 3.83		55.19	3217.54	37.81
44	3.83 - 0		57.13	3362.79	38.07

Analysis Results

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
135 - 130	Pole	TP16x16x0.465	Pole	3.4%	Pass
130 - 125	Pole	TP16x16x0.465	Pole	5.8%	Pass
125 - 120	Pole	TP16x16x0.465	Pole	19.5%	Pass
120 - 115	Pole	TP16x16x0.465	Pole	31.0%	Pass
115 - 110.5	Pole	TP16x16x0.465	Pole	41.0%	Pass
110.5 - 110	Pole	TP16x16x0.465	Pole	42.7%	Pass
110 - 109.75	Pole + Reinf.	TP16.059x16x0.9	Reinf. 10 Tension Rupture	26.0%	Pass
109.75 - 104.75	Pole + Reinf.	TP17.234x16.059x0.8125	Reinf. 10 Tension Rupture	33.6%	Pass
104.75 - 99.75	Pole + Reinf.	TP18.41x17.234x0.7625	Reinf. 10 Tension Rupture	40.5%	Pass
99.75 - 94.75	Pole + Reinf.	TP19.586x18.41x0.7125	Reinf. 10 Tension Rupture	49.2%	Pass
94.75 - 90.92	Pole + Reinf.	TP20.486x19.586x0.675	Reinf. 10 Tension Rupture	55.7%	Pass
90.92 - 90.67	Pole + Reinf.	TP20.545x20.486x0.8625	Reinf. 9 Compression	43.1%	Pass
90.67 - 86.41	Pole + Reinf.	TP22.33x20.545x0.8125	Reinf. 9 Compression	50.0%	Pass
86.41 - 81.41	Pole + Reinf.	TP22.333x21.172x0.85	Reinf. 9 Compression	54.5%	Pass
81.41 - 76.41	Pole + Reinf.	TP23.494x22.333x0.8125	Reinf. 9 Compression	60.9%	Pass
76.41 - 74.5	Pole + Reinf.	TP23.938x23.494x0.8	Reinf. 9 Compression	63.2%	Pass
74.5 - 74.25	Pole + Reinf.	TP23.996x23.938x1.275	Reinf. 11 Tension Rupture	44.7%	Pass
74.25 - 70.58	Pole + Reinf.	TP24.848x23.996x1.2	Reinf. 11 Tension Rupture	47.9%	Pass
70.58 - 70.33	Pole + Reinf.	TP24.906x24.848x1.2	Reinf. 11 Tension Rupture	48.1%	Pass
70.33 - 66.33	Pole + Reinf.	TP25.835x24.906x1.15	Reinf. 11 Tension Rupture	51.4%	Pass
66.33 - 66.08	Pole + Reinf.	TP25.893x25.835x1.3	Reinf. 8 Compression	44.2%	Pass
66.08 - 61.08	Pole + Reinf.	TP27.055x25.893x1.225	Reinf. 8 Compression	47.6%	Pass
61.08 - 60	Pole + Reinf.	TP27.305x27.055x1.225	Reinf. 8 Compression	48.3%	Pass
60 - 59.75	Pole + Reinf.	TP27.363x27.305x1.225	Reinf. 8 Compression	48.4%	Pass
59.75 - 54.75	Pole + Reinf.	TP28.525x27.363x1.15	Reinf. 8 Compression	51.5%	Pass
54.75 - 49.75	Pole + Reinf.	TP29.686x28.525x1.1	Reinf. 8 Compression	54.4%	Pass
49.75 - 49.2	Pole + Reinf.	TP30.84x29.686x1.1	Reinf. 8 Compression	54.7%	Pass
49.2 - 43.78	Pole + Reinf.	TP30.573x29.314x1.1375	Reinf. 8 Compression	55.4%	Pass
43.78 - 38.78	Pole + Reinf.	TP31.736x30.573x1.1125	Reinf. 8 Compression	57.7%	Pass
38.78 - 35.5	Pole + Reinf.	TP32.498x31.736x1.0875	Reinf. 8 Compression	59.1%	Pass
35.5 - 35.25	Pole + Reinf.	TP32.556x32.498x1.0875	Reinf. 4 Compression	59.2%	Pass
35.25 - 30.25	Pole + Reinf.	TP33.718x32.556x1.0375	Reinf. 4 Compression	61.3%	Pass
30.25 - 25.25	Pole + Reinf.	TP34.881x33.718x1.0125	Reinf. 4 Compression	63.2%	Pass
25.25 - 20.25	Pole + Reinf.	TP36.043x34.881x0.9875	Reinf. 4 Compression	65.0%	Pass
20.25 - 15.75	Pole + Reinf.	TP37.089x36.043x0.9625	Reinf. 4 Compression	66.5%	Pass
15.75 - 15.5	Pole + Reinf.	TP37.147x37.089x1.0125	Reinf. 15 Tension Yield	66.0%	Pass
15.5 - 10.5	Pole + Reinf.	TP38.309x37.147x0.9875	Reinf. 15 Tension Yield	67.5%	Pass
10.5 - 7.25	Pole + Reinf.	TP39.065x38.309x0.9625	Reinf. 15 Tension Yield	68.4%	Pass
7.25 - 7	Pole + Reinf.	TP39.123x39.065x0.9625	Reinf. 15 Tension Yield	68.1%	Pass
7 - 5.83	Pole + Reinf.	TP39.395x39.123x0.9625	Reinf. 15 Tension Yield	68.4%	Pass
5.83 - 5.58	Pole + Reinf.	TP39.453x39.395x1.1125	Reinf. 12 Tension Yield	60.6%	Pass
5.58 - 4.08	Pole + Reinf.	TP39.802x39.453x1.1125	Reinf. 12 Tension Yield	61.0%	Pass
4.08 - 3.83	Pole + Reinf.	TP39.86x39.802x1.1125	Reinf. 12 Tension Yield	61.5%	Pass
3.83 - 0	Pole + Reinf.	TP40.75x39.86x1.0875	Reinf. 12 Tension Yield	62.5%	Pass
				Summary	
			Pole	49.3%	Pass
			Reinforcement	68.4%	Pass
			Overall	68.4%	Pass

Additional Calculations

Section Elevation (ft)	Moment of Inertia (in ⁴)			Area (in ²)			% Capacity*																		
	Pole	Reinf.	Total	Pole	Reinf.	Total	Pole	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	R16	R17	
135 - 130	685	n/a	685	22.69	n/a	22.69	3.4%																		
130 - 125	685	n/a	685	22.69	n/a	22.69	5.8%																		
125 - 120	685	n/a	685	22.69	n/a	22.69	19.5%																		
120 - 115	685	n/a	685	22.69	n/a	22.69	31.0%																		
115 - 110.5	685	n/a	685	22.69	n/a	22.69	41.0%																		
110.5 - 110	685	n/a	685	22.69	n/a	22.69	42.7%																		
110 - 109.75	300	957	1258	9.45	24.38	33.82	15.9%																		
109.75 - 104.75	372	1086	1458	10.14	24.38	34.52	20.6%																		
104.75 - 99.75	455	1222	1677	10.84	24.38	35.22	25.1%																		
99.75 - 94.75	549	1367	1916	11.54	24.38	35.92	31.1%																		
94.75 - 90.92	629	1484	2113	12.08	24.38	36.46	35.7%																		
90.92 - 90.67	634	1991	2625	12.11	31.88	43.99	29.2%																		
90.67 - 86.41	732	2169	2901	12.71	31.88	44.59	34.4%																		
86.41 - 81.41	1079	2314	3393	17.52	31.88	49.40	35.7%																		
81.41 - 76.41	1259	2538	3796	18.44	31.88	50.32	40.1%																		
76.41 - 74.5	1332	2626	3958	18.80	31.88	50.67	41.6%																		
74.5 - 74.25	1342	4624	5966	18.84	56.25	75.09	27.9%																		
74.25 - 70.58	1492	4932	6423	19.52	56.25	75.77	30.2%																		
70.58 - 70.33	1502	4953	6455	19.56	56.25	75.81	30.4%																		
70.33 - 66.33	1678	5301	6979	20.30	56.25	76.55	32.6%																		
66.33 - 66.08	1690	6067	7757	20.35	63.75	84.10	29.8%																		
66.08 - 61.08	1930	6580	8510	21.27	63.75	85.02	32.5%																		
61.08 - 60	1985	6694	8679	21.47	63.75	85.22	33.1%																		
60 - 59.75	1997	6720	8718	21.51	63.75	85.26	33.2%																		
59.75 - 54.75	2265	7261	9526	22.44	63.75	86.19	35.8%																		
54.75 - 49.75	2556	7822	10378	23.36	63.75	87.11	38.3%																		
49.75 - 49.2	2589	7885	10475	23.46	63.75	87.21	38.6%																		
49.2 - 43.78	3471	8266	11738	30.01	63.75	93.76	37.0%																		
43.78 - 38.78	3887	8866	12753	31.17	63.75	94.92	39.0%																		
38.78 - 35.5	4177	9272	13449	31.92	63.75	95.67	40.2%																		
35.5 - 35.25	4199	9303	13503	31.98	63.75	95.73	40.3%																		
35.25 - 30.25	4670	9940	14610	33.13	63.75	96.88	42.2%																		
30.25 - 25.25	5175	10599	15773	34.29	63.75	98.04	43.9%																		
25.25 - 20.25	5714	11279	16993	35.44	63.75	99.19	45.7%																		
20.25 - 15.75	6231	11909	18140	36.48	63.75	100.23	47.2%																		
15.75 - 15.5	6261	12874	19134	36.53	73.75	110.28	46.1%																		
15.5 - 10.5	6872	13585	20458	37.69	73.75	111.44	47.9%																		
10.5 - 7.25	7291	14058	21349	38.44	73.75	112.19	49.1%																		
7.25 - 7	7323	14208	21531	38.49	71.88	110.37	48.9%																		
7 - 5.83	7478	14379	21857	38.76	71.88	110.64	49.3%																		
5.83 - 5.58	7513	17694	25207	38.82	81.88	120.70	43.3%																		
5.58 - 4.08	7715	17952	25667	39.17	81.88	121.04	43.8%																		
4.08 - 3.83	7749	18038	25787	39.22	80.00	119.22	44.2%																		
3.83 - 0	8284	18702	26986	40.11	80.00	120.11	45.4%																		

Note: Section capacity checked using 5 degree increments.
Rating per TIA-222-H Section 15.5.

Monopole Base Plate Connection

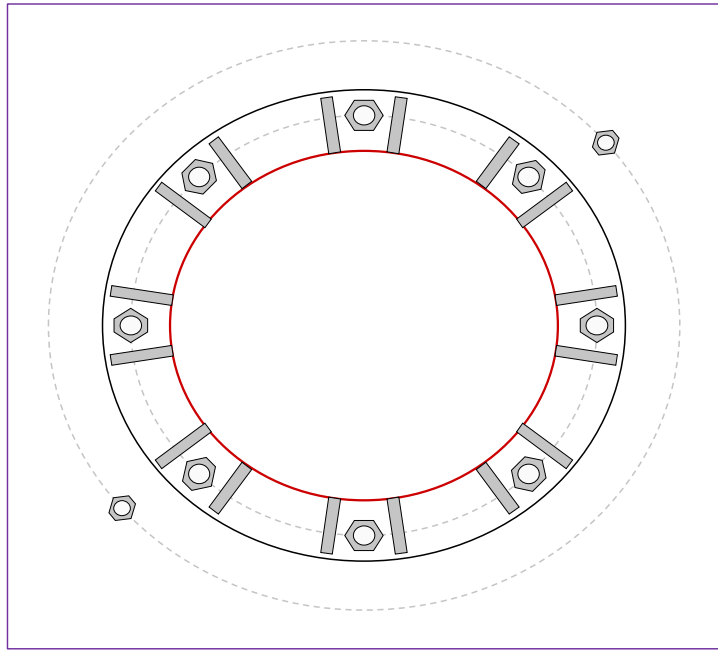


Site Info	
BU #	876406
Site Name	Old Lyme-Old Lyme Fire
Order #	441746 Rev. 8

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

Applied Loads	
Moment (kip-ft)	1434.90
Axial Force (kips)	57.13
Shear Force (kips)	38.07

*TIA-222-H Section 15.5 Applied



Connection Properties

Anchor Rod Data

GROUP 1: (8) 2-1/4" ϕ bolts (A615-75 N; $F_y=75$ ksi, $F_u=100$ ksi) on 49" BC
 GROUP 2: (2) 1-3/4" ϕ bolts (A193 Gr. B7 N; $F_y=105$ ksi, $F_u=125$ ksi) on 66.375" BC
pos. (deg): 40, 220

Base Plate Data

55" OD x 2" Plate (A572-50; $F_y=50$ ksi, $F_u=65$ ksi)

Stiffener Data

(16) 18"H x 6.5"W x 1.25"T, Notch: 0.5"
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

Pole Data

40.75" x 0.3125" 18-sided pole (A572-65; $F_y=65$ ksi, $F_u=80$ ksi)

Analysis Results

Anchor Rod Summary

(units of kips, kip-in)

GROUP 1:		
$P_u_c = 182.01$	$\phi P_n_c = 268.39$	Stress Rating
$V_u = 4.76$	$\phi V_n = 120.77$	70.5%
$M_u = 7.73$	$\phi M_n = 128.14$	Pass

GROUP 2:		
$P_u_t = 90.51$	$\phi P_n_t = 178.13$	Stress Rating
$V_u = 0$	$\phi V_n = 112.75$	48.4%
$M_u = 0$	$\phi M_n = 84.41$	Pass

Base Plate Summary

Max Stress (ksi):	7	(Shear)
Allowable Stress (ksi):	29.25	
Stress Rating:	22.8%	Pass

Stiffener Summary

Horizontal Weld:	16.9%	Pass
Vertical Weld:	24.5%	Pass
Plate Flexure+Shear:	3.9%	Pass
Plate Tension+Shear:	16.8%	Pass
Plate Compression:	20.0%	Pass

Pole Summary

Punching Shear:	9.5%	Pass
-----------------	-------------	-------------

Pier and Pad Foundation



BU #: 876406
 Site Name: NE Old Lyme-Old L
 App. Number: 441746 Rev. 8

TIA-222 Revision: H
 Tower Type: Monopole

Top & Bot. Pad Rein. Different?:
 Block Foundation?:
 Rectangular Pad?:

Superstructure Analysis Reactions		
Compression, P_{comp} :	57.14	kips
Base Shear, V_{u_comp} :	38.05	kips
Moment, M_u :	1434.9	ft-kips
Tower Height, H :	135	ft
BP Dist. Above Fdn, bp_{dist} :	3	in

Foundation Analysis Checks				
	Capacity	Demand	Rating*	Check
<i>Lateral (Sliding) (kips)</i>	209.28	38.05	17.3%	Pass
<i>Bearing Pressure (ksf)</i>	16.63	2.26	12.9%	Pass
<i>Overturning (kip*ft)</i>	4206.06	1748.81	41.6%	Pass
<i>Pier Flexure (Comp.) (kip*ft)</i>	5983.23	1625.15	25.9%	Pass
<i>Pier Compression (kip)</i>	47736.00	147.14	0.3%	Pass
<i>Pad Flexure (kip*ft)</i>	996.69	327.71	31.3%	Pass
<i>Pad Shear - 1-way (kips)</i>	621.12	65.25	10.0%	Pass
<i>Pad Shear - 2-way (Comp) (ksi)</i>	0.164	0.015	8.9%	Pass
<i>Flexural 2-way (Comp) (kip*ft)</i>	1735.51	975.09	53.5%	Pass

Pier Properties		
Pier Shape:	Square	
Pier Diameter, $dpier$:	10	ft
Ext. Above Grade, E :	1	ft
Pier Rebar Size, Sc :	8	
Pier Rebar Quantity, mc :	30	
Pier Tie/Spiral Size, St :	4	
Pier Tie/Spiral Quantity, mt :		
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier} :	3	in

*Rating per TIA-222-H Section 15.5

Structural Rating*:	53.5%
Soil Rating*:	41.6%

Pad Properties		
Depth, D :	7	ft
Pad Width, W_1 :	20	ft
Pad Thickness, T :	3	ft
Pad Rebar Size (Bottom dir. 2), Sp_2 :	8	
Pad Rebar Quantity (Bottom dir. 2), mp_2 :	9	
Pad Clear Cover, cc_{pad} :	3	in

Material Properties		
Rebar Grade, F_y :	60	ksi
Concrete Compressive Strength, F'_c :	3	ksi
Dry Concrete Density, δ_c :	150	pcf

Soil Properties		
Total Soil Unit Weight, γ :	125	pcf
Ultimate Net Bearing, Q_{net} :	21.300	ksf
Cohesion, C_u :	0.000	ksf
Friction Angle, ϕ :	30	degrees
SPT Blow Count, N_{blows} :	41	
Base Friction, μ :		
Neglected Depth, N :	3.50	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, gw :	N/A	ft

<--Toggle between Gross and Net

Seismic Design Category: B

Pile Foundation

Checks the capacity of pile foundation configurations for monopoles or self-support towers with individual foundations in Rev. F, G, and H.



BU #: 876406
 Site Name: NE Old Lyme-Old Lyme Fireh
 Order: 441746 Rev. 8

Tower Type: Monopole
 TIA Revision: H

Top & Bot. Pad Rein. Different?:

Factored Design Reactions At Base		
Moment, M:	1927.89	ft-kips
Axial, Pu:	0	kips
Shear, Sc:	0	kips
Load Eccentricity, Ecc:	0	in

Pile Properties		
Pile Shape:	Round	
Pile Material:	Steel	
Length of Pile, Lpile:	20	ft
Pile Diameter:	12.8	in
Pile (Soil) Capacity Given?	Yes	
Steel Grade, Fy:	35	ksi

Pile Group		
Group Configuration:	Rectangular	
Number of Columns, Nx:	2	
Number of Rows, Ny:	2	
Column Spacing, Dx:	84	in
Row Spacing, Dy:	156	in
Orientation of Neutral Axis, θ:	0	deg
Group Efficiency Given in Geotech?	No	

Program Calculated Group Efficiency, Eg: 1.00

Pile Cap		
Cap Type:	Pier and Pad	
Depth to Bottom of Pad, D:	7.00	ft
Thickness of Pad, T:	3.00	ft
Pad Width, Wx:	20.00	ft
Pad Length, Wy:	20.00	ft
Pad Rebar Size (Bot.), Spad:	8	
Pad Rebar Quantity (X-direction) (Bot.), Mpad:	9	
Pad Rebar Quantity (Y-direction) (Bot.), Mpad _y :	9	
Extension of Pier Above Grade, E:	1.00	ft
Pier Shape:	Square	
Pier Width, di:	10.00	ft
Pier Rebar Size, Rs:	8	
Pier Rebar Quantity, mc:	30	
Pier Tie Size, St:	4	

Material Properties		
Rebar Grade, Fy:	60	ksi
Concrete Strength, Fc:	3	ksi
Clear Cover, cc:	3	in

Soil Properties		
Groundwater Depth, GW:	2.00	ft
Soil Unit Weight:	125	pcf
Cohesion, Co:	0	ksf
Friction Angle, φ:	30	deg
Neglected Depth, ND:	3.5	ft
Negative Friction Force (per pile), Sw:		kips
SPT Blow Count, N _{blows} :	41	

Design Checks				
	Capacity	Demand	Rating*	Check
PILE CHECKS				
Soil Compression (kips per pile):	224.48	209.13	88.7%	Pass
Soil Uplift (kips per pile):	126.69	67.81	51.0%	Pass
Pile Tensile Strength (kips):	3603.03	67.81	1.8%	Pass
PAD CHECKS				
One-Way Shear (kips):	621.12	36.37	5.6%	Pass
Pad Shear - Comp Two-Way (ksi):	0.164	0.013	7.6%	Pass
Flexural Two-Way (Comp) (kip*ft):	1735.51	1156.73	63.5%	Pass
Pad Flexure (kip*ft):	996.69	283.23	27.1%	Pass
PIER CHECKS				
Pier Compression (kips):	47736.00	75.02	0.1%	Pass
Pier Flexure (Comp.) (ft-kips):	5767.22	1927.89	31.8%	Pass

*Rating per TIA-222-H Section 15.5

Structural Rating:	63.5%
Soil Rating:	88.7%

Ultimate Pile Capacities		
Ultimate Compression, Cn:	299.3	kips
Ultimate Tension, Tn:	146.8	kips

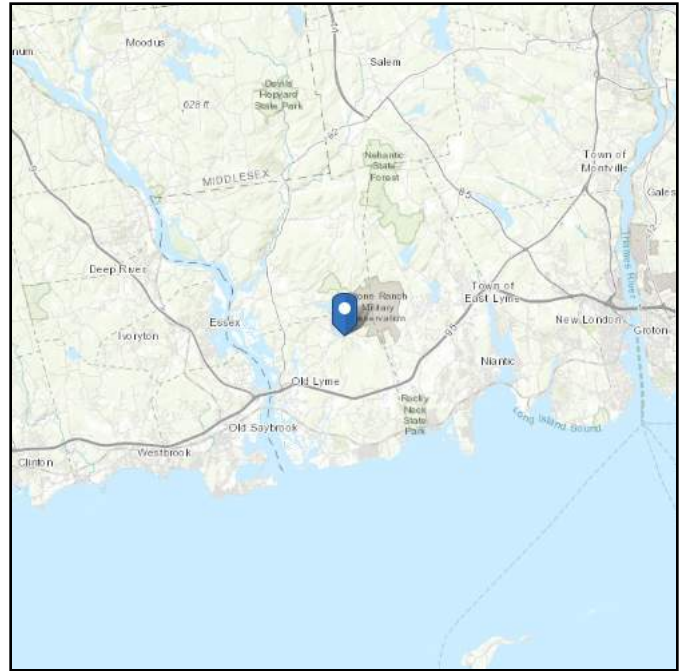
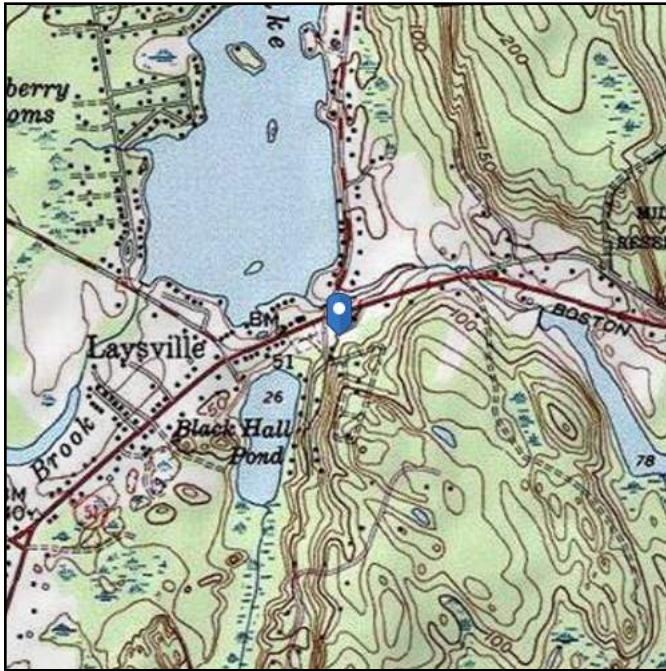
Per CCI sites Doc. # 8730421

ASCE 7 Hazards Report

Address:
No Address at This Location

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

Elevation: 51.46 ft (NAVD 88)
Latitude: 41.348992
Longitude: -72.295458



Wind

Results:

Wind Speed:	132 Vmph
10-year MRI	79 Vmph
25-year MRI	89 Vmph
50-year MRI	98 Vmph
100-year MRI	108 Vmph

Data Source: ASCE/SEI 7-10, Fig. 26.5-1A and Figs. CC-1–CC-4, and Section 26.5.2, incorporating errata of March 12, 2014

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

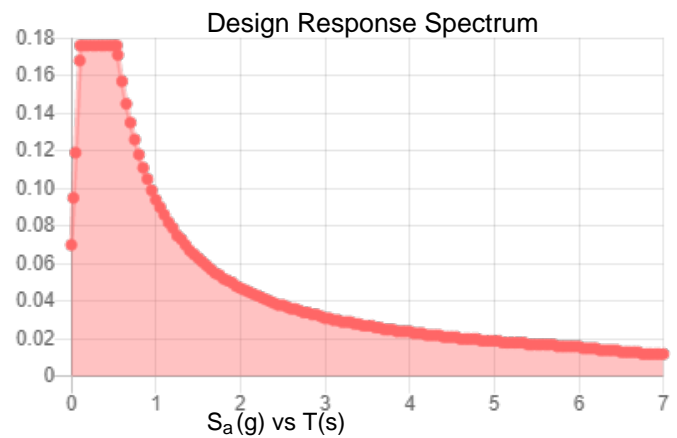
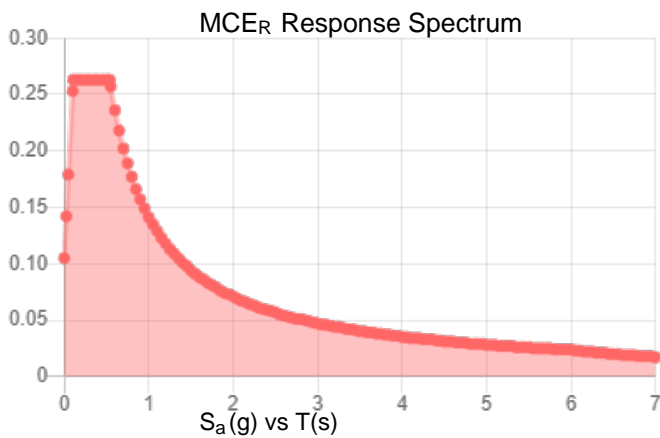
Site is in a hurricane-prone region as defined in ASCE/SEI 7-10 Section 26.2. Glazed openings need not be protected against wind-borne debris.

Site Soil Class: D - Stiff Soil

Results:

S_S :	0.165	S_{DS} :	0.176
S_1 :	0.059	S_{D1} :	0.094
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.082
S_{MS} :	0.263	PGA _M :	0.132
S_{M1} :	0.141	F_{PGA} :	1.6
		I_e :	1

Seismic Design Category B



Data Accessed:

Tue Jun 29 2021

Date Source:

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

Ice

Results:

Ice Thickness: 0.75 in. Ice Thickness = 2*0.75 = 1.5 in
Concurrent Temperature: 15 F
Gust Speed: 50 mph

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

Date Accessed: Tue Jun 29 2021

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

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

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

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June 29, 2021



Tower Engineering Professionals
326 Tryon Road
Raleigh, NC 27603
(919) 661-6351
CrownMA@tepgroup.net

Subject: Mount Analysis

Carrier Designation: Metro PCS Reconfiguration
Client Site Number: CTNL226A
Client Site Name: Crown Old Lyme Monopole

Crown Castle Designation: Crown Castle BU Number: 876406
Crown Castle Site Name: NE Old Lyme-Old Lyme Firehouse
Crown Castle JDE Job Number: 506803
Crown Castle Order Number: 441746 Rev. 8

Engineering Firm Designation: TEP Project Number: 144549.564764

Site Data: 189 Boston Post Road, Old Lyme, New London County, CT 06371
Latitude 41° 20' 56.37", Longitude -72° 17' 43.65"

Structure Information: Tower Height & Type: 135.0± ft Monopole
Mount Elevation: 111.0 ft
Mount Width & Type: 13.2 ft Platform w/ Support Rail

Tower Engineering Professionals is pleased to submit this "Mount Analysis" to determine the structural integrity of Metro PCS's antenna mounting system with 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 Capacity

This analysis utilizes an ultimate 3-second gust wind speed of 135 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: Danny Murillo / GHM

Respectfully submitted by:

Aaron T. Rucker, P.E.
Structural Division Manager
919-661-6351
arucker@tepgroup.net



Electronic Copy

06/29/2021

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1) INTRODUCTION

The mount is an existing 13.2-ft 3-sector Platform w/ Support Rail mount, mapped by Paul J. Ford & Company. The mount is installed at the 111.0 ft elevation on the 135.0± ft Monopole. The mount has been modified per reinforcement drawings prepared by Tower Engineering Professionals, Inc. in June of 2019. Reinforcement consists of a support rail kit and a mount pipe.

2) ANALYSIS CRITERIA

Building Code:	2018 Connecticut State Building Code
TIA-222 Revision:	TIA-222-H
Risk Category:	II
Ultimate Wind Speed:	135 mph
Exposure Category:	C
Topographic Category at Base:	1.0
Topographic Category at Mount:	1.0
Ice Thickness:	1.5 in
Wind Speed with Ice:	50 mph
Seismic Design Category:	B
Seismic S_s:	0.165
Seismic S₁:	.059
Live Loading Wind Speed:	30 mph
Live Loading at Mid/End-Points:	250 lb
Man Live Loading at Mount Pipes:	500 lb

Table 1 - Proposed Equipment Configuration

Mount Centerline (ft)	Antenna Centerline (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Mount / Modification Details
111.0	108.0	3	RFS/CELWAVE	APXVAALL24_43-U-NA20_TMO	Platform w/ Support Rail Mount
		3	ERICSSON	RADIO 4449 B71 B85A_T-MOBILE	

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

Document	Remarks	Reference	Source
Mount Mapping	Paul J. Ford & Company	8359340	CCIsites
Previous Mount Modification Drawings	Tower Engineering Professionals, Inc.	8446204	CCIsites
Previous Mount Analysis	Tower Engineering Professionals, Inc.	9395017	CCIsites
RFDS	Metro PCS	Site ID: CTNL226A	CCIsites
Loading Application	Metro PCS	Order 441746 Rev. 8	CCIsites

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 mount and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A and Appendix C.

TEP Mount Analysis Tool, a tool internally developed by TEP using Microsoft Excel, was used to calculate member loading for various load cases. Selected output from the analysis is included in Appendix B.

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

3.2) Assumptions

- 1) The mount was built in accordance with the manufacturer's specifications.
- 2) The mount has been maintained in accordance with the manufacturer's specification.
- 3) The configuration of antennas, mounts and other appurtenances are as specified in Table 1. All mount components have been assumed to be in sufficient condition to carry their full design capacity for this analysis. Refer to the issued mapping for any structural and/or maintenance issues found during our site visit if applicable.
- 4) All mount components are in sufficient condition to carry their full design capacity.
- 5) 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.
- 6) All material grades used for this analysis, unless verified by mount manufacturer design, were assumed per AISC Table 2-4, 15th Edition. See RISA-3D output for confirmation on grades used in this analysis.

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)

Notes	Component	Critical Member	Mount Centerline (ft)	% Capacity	Pass / Fail
1	Face Horizontals	SF2-TH	111.0	26.1	Pass
1	Support Rails	SF2-HR	111.0	68.4	Pass
1	Support Horizontals	SA-2	111.0	57.2	Pass
1	Mount Pipes	MP-5	111.0	67.8	Pass

Structure Rating (max from all components) =	68.4%
---	--------------

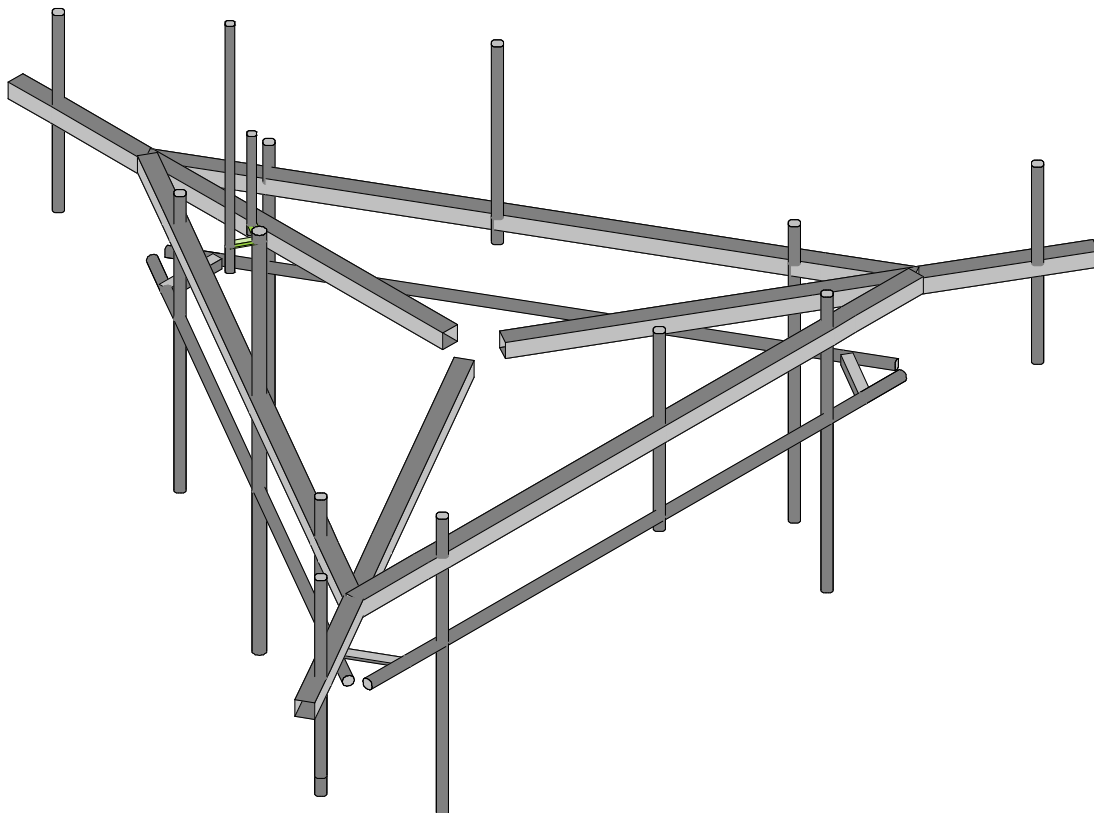
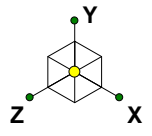
Notes:

- 1) See additional documentation in "Appendix C - Analysis Output" for calculations supporting the % capacity listed.

4.1) Recommendations

- 1) If the load differs from that described in Table 1 of this report or the provisions of this analysis are found to be invalid, another structural analysis should be performed.
- 2) The mount and its connection have sufficient capacity to carry the proposed loading configuration. No modifications are required at this time.

APPENDIX A
WIRE FRAME AND RENDERED MODELS



Envelope Only Solution

Tower Engineering Profess...

DJM

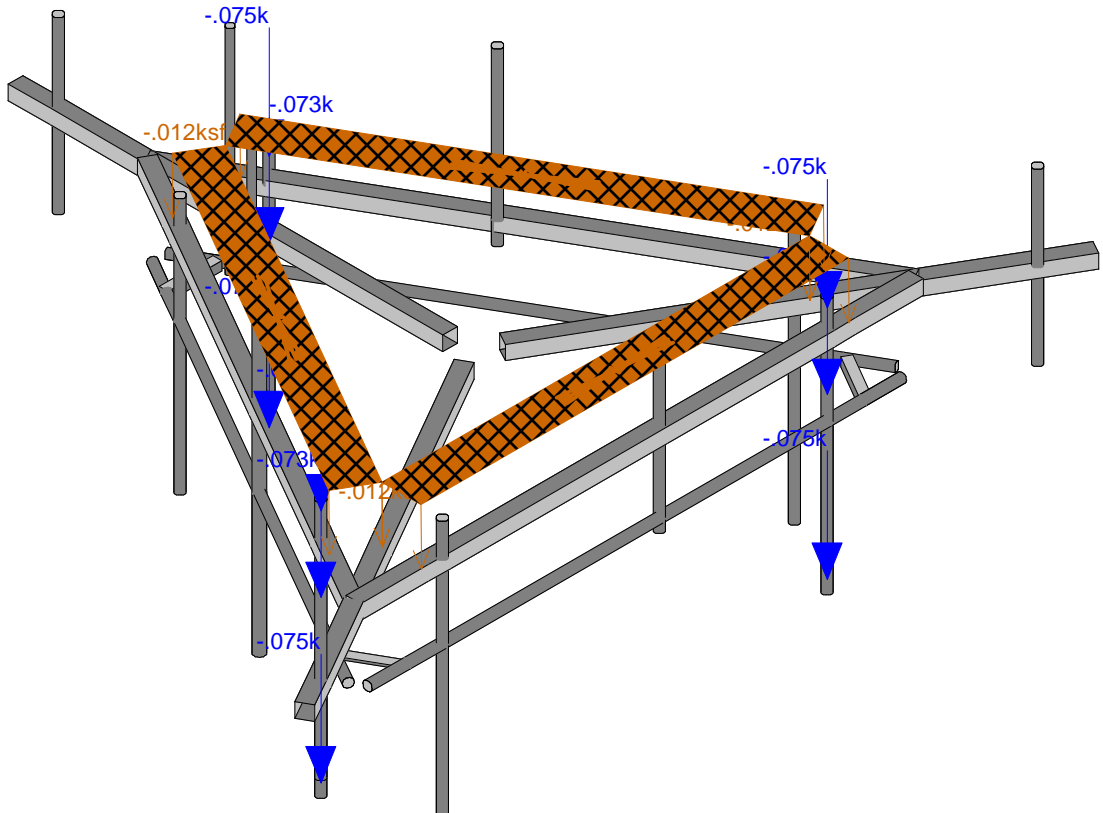
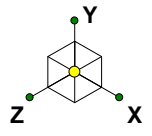
TEP No. 144549.564764

CCI BU No 876406

SK - 1

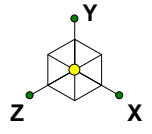
June 29, 2021 at 2:32 PM

Mount Rev H.r3d

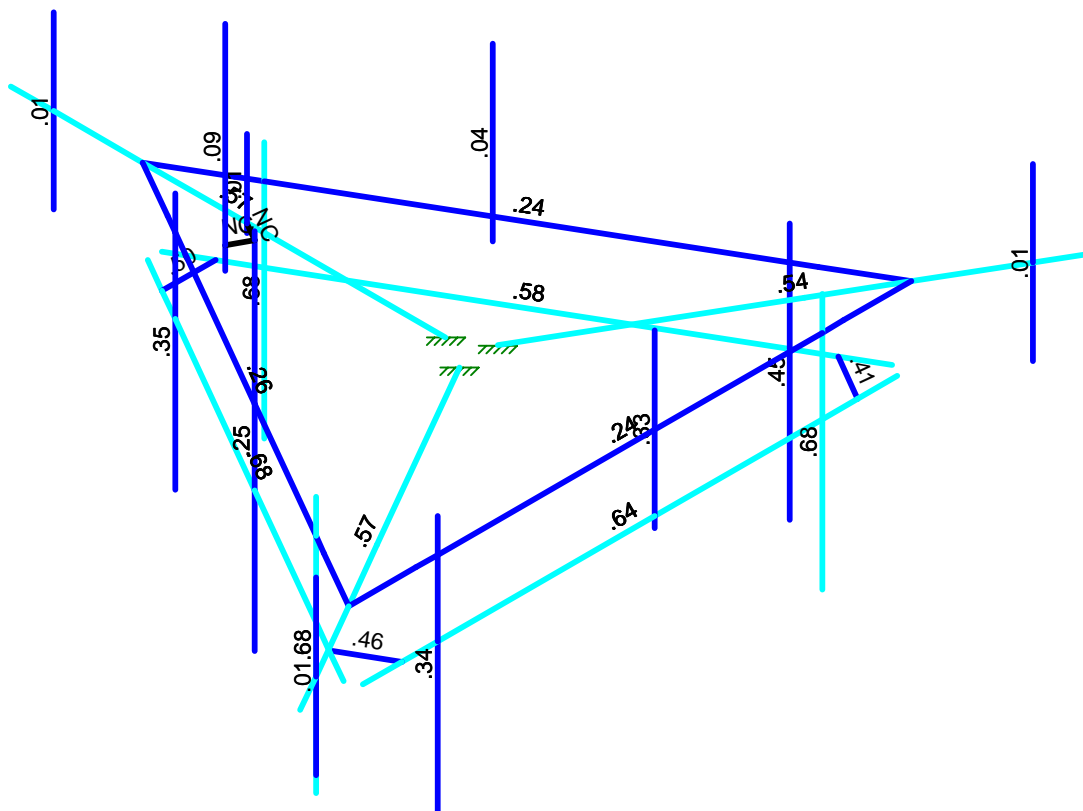


Loads: BLC 1, Dead
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Tower Engineering Profess...	CCI BU No 876406	SK - 2
DJM		June 29, 2021 at 2:32 PM
TEP No. 144549.564764		Mount Rev H.r3d

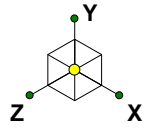


Code Check (Env)	
	No Calc
	> 1.0
	.90-1.0
	.75-.90
	.50-.75
	0-.50

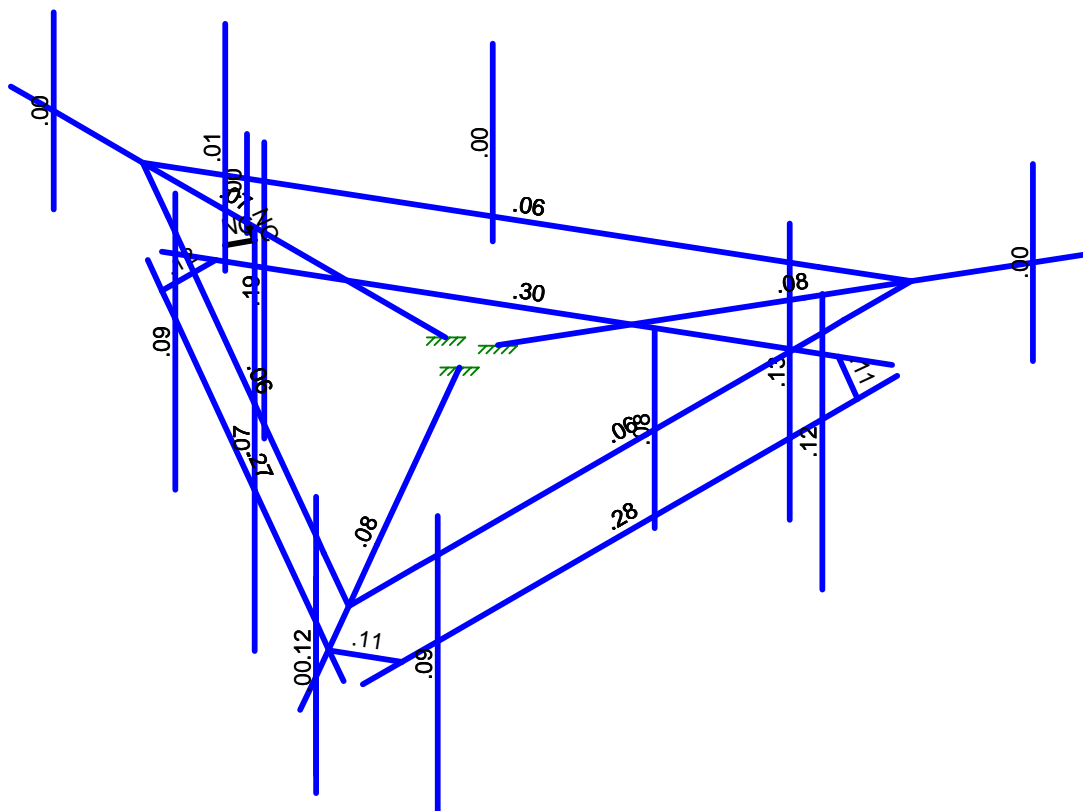


Member Code Checks Displayed (Enveloped)
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Tower Engineering Profess...	CCI BU No 876406	SK - 3
DJM		June 29, 2021 at 2:33 PM
TEP No. 144549.564764		Mount Rev H.r3d



Shear Check (Env)	
Black	No Calc
Red	> 1.0
Magenta	.90-1.0
Green	.75-.90
Cyan	.50-.75
Blue	0-.50



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

Tower Engineering Profess...

DJM

TEP No. 144549.564764

CCI BU No 876406

SK - 4

June 29, 2021 at 2:33 PM

Mount Rev H.r3d

APPENDIX B
SOFTWARE INPUT CALCULATIONS



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

Wind Inputs:

Ult. Wind Velocity:	135.0	mph
Live Load Velocity:	30.0	mph
Ice Wind Velocity:	50.0	mph
Base Ice Thickness:	1.50	inches
Mount Centerline:	111.0	ft
Antenna Centerline:	108.0	ft
Exposure Category:	C	
Topo Category:	1	
Risk Category:	II	
Ground Elevation:	51	ft

Wind Calculations:

K_{zt} :	1.000	Section 2.6.6
K_d :	0.950	
$K_{z-Mount}$:	1.294	Section 2.6.5.2
$K_{z-Antenna}$:	1.286	Section 2.6.5.2
K_{iz} :	1.127	Section 2.6.10
Ice Thickness:	1.691	inches - Section 2.6.10

Without Ice - (psf)		With Ice - (psf)	
$(q_z G_h)_{Mount}$:	57.24	$(q_z G_h)_{Mount}$:	7.85
$(q_z G_h)_{Antenna}$:	56.91	$(q_z G_h)_{Antenna}$:	7.81



CCI BU No 876406
 TEP No. 144549.564764
 Analysis By: DJM 6/29/2021
 Checked By: GHM 6/29/2021

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,%)
RFS/Celwave	APXVAALL24_43-U-NA20_TMO	95.90	24.00	8.50	149.90	0.00	1	Flat	MP-1	0.25	5.75	
Ericsson	Radio 4449 B71 B85A_T-Mobile	17.91	13.20	10.63	73.21	0.00	1	Flat	MP-1	2.00		
RFS/Celwave	APXVAALL24_43-U-NA20_TMO	95.90	24.00	8.50	149.90	120.00	1	Flat	MP-5	0.25	5.75	
Ericsson	Radio 4449 B71 B85A_T-Mobile	17.91	13.20	10.63	73.21	120.00	1	Flat	MP-5	2.00		
RFS/Celwave	APXVAALL24_43-U-NA20_TMO	95.90	24.00	8.50	149.90	240.00	1	Flat	MP-9	0.25	5.75	
Ericsson	Radio 4449 B71 B85A_T-Mobile	17.91	13.20	10.63	73.21	240.00	1	Flat	MP-9	2.00		



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

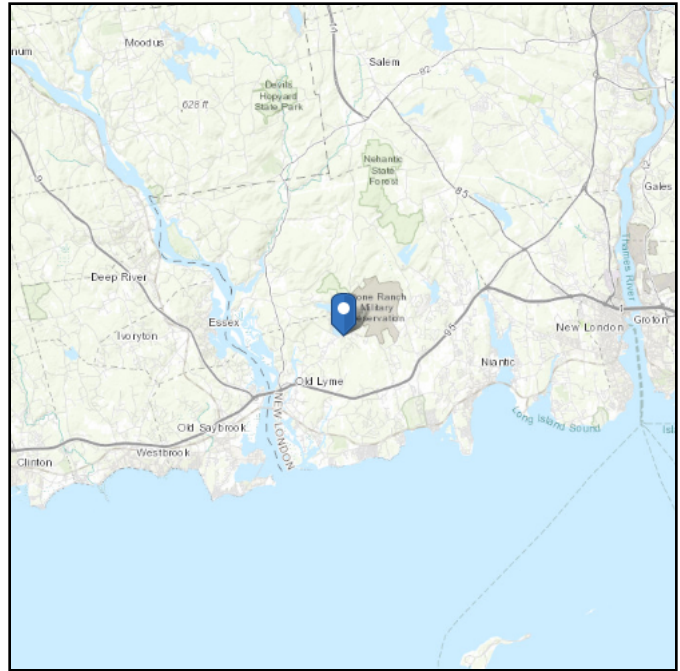
Member Name	Wind Proj. (in)	Length (in)	Shape	θ (°)	Perimeter (in)
FFTH	4.000	157.96	Flat	90.00	16.00
MP-1	2.375	72.00	Round		7.46
MP-2	2.375	48.00	Round		7.46
MP-3	2.375	72.00	Round		7.46
MP-4	2.375	48.00	Round		7.46
MP-5	2.375	72.00	Round		7.46
MP-6	2.875	102.00	Round		9.03
MP-6B	1.900	60.00	Round		5.97
MP-6C	1.900	24.00	Round		5.97
MP-7	2.375	72.00	Round		7.46
MP-8	2.375	48.00	Round		7.46
MP-9	2.375	72.00	Round		7.46
MP-10	2.375	48.00	Round		7.46
MP-11	2.375	72.00	Round		7.46
MP-12	2.375	48.00	Round		7.46
SA-1	4.000	122.00	Flat	-60.00	16.00
SA-2	4.000	122.00	Flat	0.00	16.00
SA-3	4.000	122.00	Flat	60.00	16.00
SF2-TH	4.000	157.96	Flat	-30.00	16.00
SF3-TH	4.000	157.96	Flat	30.00	16.00
FF-HR	2.375	150.00	Round	90.00	7.46
SF1-HR	2.375	150.00	Round	30.00	7.46
SF2-HR	2.375	150.00	Round	-30.00	7.46
HRC-1	2.500	15.00	Flat	30.00	10.00
HRC-2	2.500	15.00	Flat	-30.00	10.00
HRC-3	2.500	15.00	Flat	90.00	10.00

ASCE 7 Hazards Report

Address:
No Address at This Location

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

Elevation: 51.46 ft (NAVD 88)
Latitude: 41.348992
Longitude: -72.295458



Wind

Results:

Wind Speed:	132 Vmph	135 mph per jurisdiction
10-year MRI	79 Vmph	
25-year MRI	89 Vmph	
50-year MRI	98 Vmph	
100-year MRI	108 Vmph	

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

Date Accessed: Mon May 13 2019

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

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

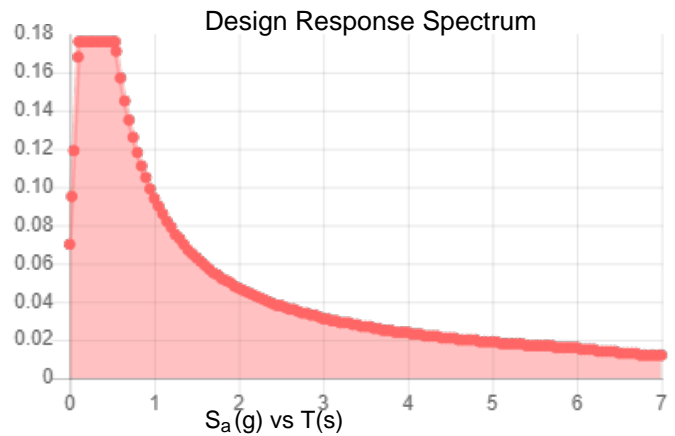
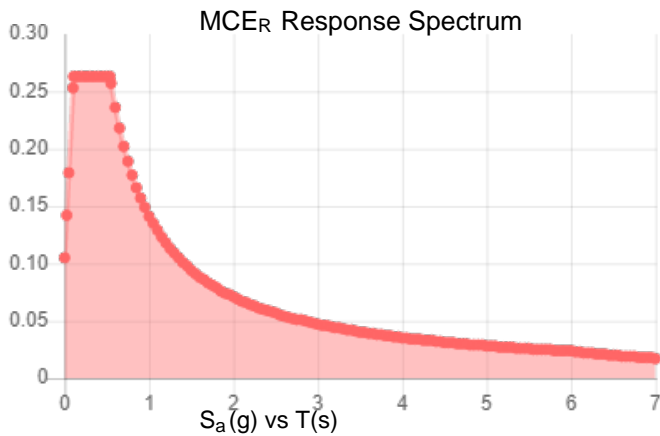
Mountainous terrain, gorges, ocean promontories, and special wind regions should be examined for unusual wind conditions.

Site Soil Class: D - Stiff Soil

Results:

S_S :	0.165	S_{DS} :	0.176
S_1 :	0.059	S_{D1} :	0.094
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.082
S_{MS} :	0.263	PGA _M :	0.132
S_{M1} :	0.141	F _{PGA} :	1.6
		I_e :	1

Seismic Design Category B



Data Accessed:

Mon May 13 2019

Date Source:

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

Ice

Results:

Ice Thickness: 0.75 in.

Concurrent Temperature: 15 F

Gust Speed: 50 mph

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

Date Accessed: Mon May 13 2019

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

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

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

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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.

APPENDIX C
SOFTWARE ANALYSIS OUTPUT



Company : Tower Engineering Professionals, Inc.
 Designer : DJM
 Job Number : TEP No. 144549.564764
 Model Name : CCI BU No 876406

June 29, 2021
 2:33 PM
 Checked By: GHM

(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
Parame Beta Factor (PCA)	.65
Concrete Stress Block	Rectangular
Use Cracked Sections?	Yes
Use Cracked Sections Slab?	Yes
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, Inc.
 Designer : DJM
 Job Number : TEP No. 144549.564764
 Model Name : CCI BU No 876406

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(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

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 List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horiz.	HSS4X4X4	Beam	None	A500 Gr.B R...	Typical	3.37	7.8	7.8	12.8
2	Mount Pipe	PIPE 2.0	Column	None	A53 Gr.B	Typical	1.02	.627	.627	1.25
3	MP 1.5	PIPE 1.5	Column	None	A53 Gr.B	Typical	.749	.293	.293	.586
4	MP 2.5	PIPE 2.5	Column	None	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
5	Support Arm	HSS4X4X4	Beam	None	A500 Gr.B R...	Typical	3.37	7.8	7.8	12.8
6	HRK	PIPE 2.0	Beam	None	A53 Gr.B	Typical	1.02	.627	.627	1.25
7	HRC	L2.5x2.5x4	Beam	None	A36 Gr.36	Typical	1.19	.692	.692	.026

Cold Formed Steel Section Sets

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	CF1A	8CU1.25X057	Beam	None	A653 SS Gr33	Typical	.581	.057	4.41	.00063



Company : Tower Engineering Professionals, Inc.
 Designer : DJM
 Job Number : TEP No. 144549.564764
 Model Name : CCI BU No 876406

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Material Takeoff

	Material	Size	Pieces	Length(ft)	Weight(K)
1	General				
2	RIGID		2	1	0
3	Total General		2	1	0
4					
5	Hot Rolled Steel				
6	A36 Gr.36	L2.5x2.5x4	3	3.7	.015
7	A500 Gr.B Rect	HSS4X4X4	6	70	.863
8	A53 Gr.B	PIPE 1.5	2	7	.018
9	A53 Gr.B	PIPE 2.0	14	93.5	.325
10	A53 Gr.B	PIPE 2.5	1	8.5	.047
11	Total HR Steel		26	182.7	1.267

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	Reaction
2 SA2	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
3 SA3	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction

Member Primary Data

Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	FFTH	FF1	FF2		Face Horiz.	Beam	None	A500 Gr...	Typical
2	MP-1	N14	N16		Mount Pipe	Column	None	A53 Gr.B	Typical
3	MP-2	N18	N19		Mount Pipe	Column	None	A53 Gr.B	Typical
4	MP-3	N15	N17		Mount Pipe	Column	None	A53 Gr.B	Typical
5	MP-4	N49	N50		Mount Pipe	Column	None	A53 Gr.B	Typical
6	MP-5	N30	N32		Mount Pipe	Column	None	A53 Gr.B	Typical
7	MP-6	N34	N35		MP 2.5	Column	None	A53 Gr.B	Typical
8	MP-6B	N37	N36		MP 1.5	Column	None	A53 Gr.B	Typical
9	MP-6C	N39	N38		MP 1.5	Column	None	A53 Gr.B	Typical
10	MP-7	N31	N33		Mount Pipe	Column	None	A53 Gr.B	Typical
11	MP-8	N46	N47		Mount Pipe	Column	None	A53 Gr.B	Typical
12	MP-9	N39A	N41A		Mount Pipe	Column	None	A53 Gr.B	Typical
13	MP-10	N43	N44		Mount Pipe	Column	None	A53 Gr.B	Typical
14	MP-11	N40A	N42A		Mount Pipe	Column	None	A53 Gr.B	Typical
15	MP-12	N52	N53		Mount Pipe	Column	None	A53 Gr.B	Typical
16	R1	N40	N41		RIGID	None	None	RIGID	Typical
17	R2	N40	N42		RIGID	None	None	RIGID	Typical
18	SA-1	SA1	N8		Support Arm	Beam	None	A500 Gr...	Typical
19	SA-2	SA2	N6		Support Arm	Beam	None	A500 Gr...	Typical
20	SA-3	SA3	N10		Support Arm	Beam	None	A500 Gr...	Typical
21	SF2-TH	FF2	N6A		Face Horiz.	Beam	None	A500 Gr...	Typical
22	SF3-TH	N6A	FF1		Face Horiz.	Beam	None	A500 Gr...	Typical
23	FF-HR	N63	N64		HRK	Beam	None	A53 Gr.B	Typical
24	SF1-HR	N69	N70		HRK	Beam	None	A53 Gr.B	Typical
25	SF2-HR	N73	N74		HRK	Beam	None	A53 Gr.B	Typical
26	HRC-1	N81	N67A	90	HRC	Beam	None	A36 Gr.36	Typical
27	HRC-2	N77	N78	90	HRC	Beam	None	A36 Gr.36	Typical
28	HRC-3	N79	N80	90	HRC	Beam	None	A36 Gr.36	Typical



Company : Tower Engineering Professionals, Inc.
 Designer : DJM
 Job Number : TEP No. 144549.564764
 Model Name : CCI BU No 876406

June 29, 2021
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 Checked By: GHM

Member Advanced Data

Label	I Release	J Release	I Offset(in)	J Offset(in)	T/C Only	Physical	Defl Rati...	Analysis Offse...	Inactive	Seismic Design R...
1	FFTH					Yes				None
2	MP-1					Yes	** NA **			None
3	MP-2					Yes	** NA **			None
4	MP-3					Yes	** NA **			None
5	MP-4					Yes	** NA **			None
6	MP-5					Yes	** NA **			None
7	MP-6					Yes	** NA **			None
8	MP-6B					Yes	** NA **			None
9	MP-6C					Yes	** NA **			None
10	MP-7					Yes	** NA **			None
11	MP-8					Yes	** NA **			None
12	MP-9					Yes	** NA **			None
13	MP-10					Yes	** NA **			None
14	MP-11					Yes	** NA **			None
15	MP-12					Yes	** NA **			None
16	R1					Yes	** NA **			None
17	R2					Yes	** NA **			None
18	SA-1					Yes				None
19	SA-2					Yes				None
20	SA-3					Yes				None
21	SF2-TH					Yes				None
22	SF3-TH					Yes				None
23	FF-HR					Yes				None
24	SF1-HR					Yes				None
25	SF2-HR					Yes				None
26	HRC-1					Yes				None
27	HRC-2					Yes				None
28	HRC-3					Yes				None

Hot Rolled Steel Design Parameters

Label	Shape	Length(ft)	Lbyy(ft)	Lbzz(ft)	Lcomp top...	Lcomp bot...	L-torque(ft)	Kyy	Kzz	Cb	Function
1	FFTH	Face Horiz.	13.164					2.1	2.1		Lateral
2	MP-1	Mount Pipe	6	Segment	Segment			2.1	2.1		Lateral
3	MP-2	Mount Pipe	4	Segment	Segment			2.1	2.1		Lateral
4	MP-3	Mount Pipe	6	Segment	Segment			2.1	2.1		Lateral
5	MP-4	Mount Pipe	4	Segment	Segment			2.1	2.1		Lateral
6	MP-5	Mount Pipe	6	Segment	Segment			2.1	2.1		Lateral
7	MP-6	MP 2.5	8.5	Segment	Segment			2.1	2.1		Lateral
8	MP-6B	MP 1.5	5	Segment	Segment			2.1	2.1		Lateral
9	MP-6C	MP 1.5	2	Segment	Segment			2.1	2.1		Lateral
10	MP-7	Mount Pipe	6	Segment	Segment			2.1	2.1		Lateral
11	MP-8	Mount Pipe	4	Segment	Segment			2.1	2.1		Lateral
12	MP-9	Mount Pipe	6	Segment	Segment			2.1	2.1		Lateral
13	MP-10	Mount Pipe	4	Segment	Segment			2.1	2.1		Lateral
14	MP-11	Mount Pipe	6	Segment	Segment			2.1	2.1		Lateral
15	MP-12	Mount Pipe	4	Segment	Segment			2.1	2.1		Lateral
16	SA-1	Support Arm	10.167					2.1	2.1		Lateral
17	SA-2	Support Arm	10.167					2.1	2.1		Lateral
18	SA-3	Support Arm	10.167					2.1	2.1		Lateral



Company : Tower Engineering Professionals, Inc.
 Designer : DJM
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Hot Rolled Steel Design Parameters (Continued)

Label	Shape	Length(ft)	Lbyy(ft)	Lbzz(ft)	Lcomp top...	Lcomp bot...	L-torque(ft)	Kyy	Kzz	Cb	Function
19	SF2-TH	Face Horiz.	13.164					2.1	2.1		Lateral
20	SF3-TH	Face Horiz.	13.164					2.1	2.1		Lateral
21	FF-HR	HRK	12.5					2.1	2.1		Lateral
22	SF1-HR	HRK	12.5					2.1	2.1		Lateral
23	SF2-HR	HRK	12.5					2.1	2.1		Lateral
24	HRC-1	HRC	1.25					1	1		Lateral
25	HRC-2	HRC	1.25					1	1		Lateral
26	HRC-3	HRC	1.25					1	1		Lateral

Cold Formed Steel Design Parameters

Label	Shape	Length...	Lbyy(ft)	Lbzz(ft)	Lcomp to...	Lcomp bo...	Kyy	Kzz	Cm-yy	Cm-zz	Cb	R	y sway	z sway
No Data to Print ...														

Basic Load Cases

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface...
1	Dead	None	-1			9		3
2	0 Wind - No Ice	None				9	26	
3	30 Wind - No Ice	None				18	52	
4	45 Wind - No Ice	None				18	52	
5	60 Wind - No Ice	None				18	52	
6	90 Wind - No Ice	None				9	26	
7	120 Wind - No Ice	None				18	52	
8	135 Wind - No Ice	None				18	52	
9	150 Wind - No Ice	None				18	52	
10	180 Wind - No Ice	None				9	26	
11	210 Wind - No Ice	None				18	52	
12	225 Wind - No Ice	None				18	52	
13	240 Wind - No Ice	None				18	52	
14	270 Wind - No Ice	None				9	26	
15	300 Wind - No Ice	None				18	52	
16	315 Wind - No Ice	None				18	52	
17	330 Wind - No Ice	None				18	52	
18	Ice Weight	None				9	26	3
19	0 Wind - Ice	None				9	26	
20	30 Wind - Ice	None				18	52	
21	45 Wind - Ice	None				18	52	
22	60 Wind - Ice	None				18	52	
23	90 Wind - Ice	None				9	26	
24	120 Wind - Ice	None				18	52	
25	135 Wind - Ice	None				18	52	
26	150 Wind - Ice	None				18	52	
27	180 Wind - Ice	None				9	26	
28	210 Wind - Ice	None				18	52	
29	225 Wind - Ice	None				18	52	
30	240 Wind - Ice	None				18	52	
31	270 Wind - Ice	None				9	26	
32	300 Wind - Ice	None				18	52	
33	315 Wind - Ice	None				18	52	
34	330 Wind - Ice	None				18	52	



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Basic Load Cases (Continued)

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface...
35	Lm	None			1			
36	Lv	None			1			
37	BLC 1 Transient Area Loads	None					69	
38	BLC 18 Transient Area Loads	None					69	

Load Combinations

Description	Solve PDe...	S...	BLC Fac...	BLC Fac...	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-W...	Yes	Y	1	1.2	18	1	19	1					
35	1.2D+1.0D+1.0 30-...	Yes	Y	1	1.2	18	1	20	1					
36	1.2D+1.0D+1.0 45-...	Yes	Y	1	1.2	18	1	21	1					
37	1.2D+1.0D+1.0 60-...	Yes	Y	1	1.2	18	1	22	1					
38	1.2D+1.0D+1.0 90-...	Yes	Y	1	1.2	18	1	23	1					
39	1.2D+1.0D+1.0 120-...	Yes	Y	1	1.2	18	1	24	1					
40	1.2D+1.0D+1.0 135-...	Yes	Y	1	1.2	18	1	25	1					
41	1.2D+1.0D+1.0 150-...	Yes	Y	1	1.2	18	1	26	1					
42	1.2D+1.0D+1.0 180-...	Yes	Y	1	1.2	18	1	27	1					
43	1.2D+1.0D+1.0 210-...	Yes	Y	1	1.2	18	1	28	1					



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 Designer : DJM
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Load Combinations (Continued)

Description	SolvePDe...	S...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...
44	1.2D+1.0Di+1.0 225...	Yes	Y	1	1.2	18	1	29	1					
45	1.2D+1.0Di+1.0 240...	Yes	Y	1	1.2	18	1	30	1					
46	1.2D+1.0Di+1.0 270...	Yes	Y	1	1.2	18	1	31	1					
47	1.2D+1.0Di+1.0 300...	Yes	Y	1	1.2	18	1	32	1					
48	1.2D+1.0Di+1.0 315...	Yes	Y	1	1.2	18	1	33	1					
49	1.2D+1.0Di+1.0 330...	Yes	Y	1	1.2	18	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	.049	35	1.5					
52	1.2D+1.5Lm+1.0 30...	Yes	Y	1	1.2	3	.049	35	1.5					
53	1.2D+1.5Lm+1.0 45...	Yes	Y	1	1.2	4	.049	35	1.5					
54	1.2D+1.5Lm+1.0 60...	Yes	Y	1	1.2	5	.049	35	1.5					
55	1.2D+1.5Lm+1.0 90...	Yes	Y	1	1.2	6	.049	35	1.5					
56	1.2D+1.5Lm+1.0 12...	Yes	Y	1	1.2	7	.049	35	1.5					
57	1.2D+1.5Lm+1.0 13...	Yes	Y	1	1.2	8	.049	35	1.5					
58	1.2D+1.5Lm+1.0 15...	Yes	Y	1	1.2	9	.049	35	1.5					
59	1.2D+1.5Lm+1.0 18...	Yes	Y	1	1.2	10	.049	35	1.5					
60	1.2D+1.5Lm+1.0 21...	Yes	Y	1	1.2	11	.049	35	1.5					
61	1.2D+1.5Lm+1.0 22...	Yes	Y	1	1.2	12	.049	35	1.5					
62	1.2D+1.5Lm+1.0 24...	Yes	Y	1	1.2	13	.049	35	1.5					
63	1.2D+1.5Lm+1.0 27...	Yes	Y	1	1.2	14	.049	35	1.5					
64	1.2D+1.5Lm+1.0 30...	Yes	Y	1	1.2	15	.049	35	1.5					
65	1.2D+1.5Lm+1.0 31...	Yes	Y	1	1.2	16	.049	35	1.5					
66	1.2D+1.5Lm+1.0 33...	Yes	Y	1	1.2	17	.049	35	1.5					
67	(1.2+0.2Sds)D+1.0 0...	Y	1	1.2...	ELX	.088	0							
68	(1.2+0.2Sds)D+1.0 3...	Y	1	1.2...	ELX	.076	ELZ	.044						
69	(1.2+0.2Sds)D+1.0 4...	Y	1	1.2...	ELX	.062	ELZ	.062						
70	(1.2+0.2Sds)D+1.0 6...	Y	1	1.2...	ELX	.044	ELZ	.076						
71	(1.2+0.2Sds)D+1.0 9...	Y	1	1.2...	0		ELZ	.088						
72	(1.2+0.2Sds)D+1.0 1...	Y	1	1.2...	ELX	.044	ELZ	.076						
73	(1.2+0.2Sds)D+1.0 1...	Y	1	1.2...	ELX	.062	ELZ	.062						
74	(1.2+0.2Sds)D+1.0 1...	Y	1	1.2...	ELX	.076	ELZ	.044						
75	(1.2+0.2Sds)D+1.0 1...	Y	1	1.2...	ELX	.088	0							
76	(1.2+0.2Sds)D+1.0 2...	Y	1	1.2...	ELX	.076	ELZ	.044						
77	(1.2+0.2Sds)D+1.0 2...	Y	1	1.2...	ELX	.062	ELZ	.062						
78	(1.2+0.2Sds)D+1.0 2...	Y	1	1.2...	ELX	.044	ELZ	.076						
79	(1.2+0.2Sds)D+1.0 2...	Y	1	1.2...	0		ELZ	.088						
80	(1.2+0.2Sds)D+1.0 3...	Y	1	1.2...	ELX	.044	ELZ	.076						
81	(1.2+0.2Sds)D+1.0 3...	Y	1	1.2...	ELX	.062	ELZ	.062						
82	(1.2+0.2Sds)D+1.0 3...	Y	1	1.2...	ELX	.076	ELZ	.044						
83	(0.9-0.2Sds)*DL+1.0...	Y	1	.865	ELX	.088	0							
84	(0.9-0.2Sds)*DL+1.0...	Y	1	.865	ELX	.076	ELZ	.044						
85	(0.9-0.2Sds)*DL+1.0...	Y	1	.865	ELX	.062	ELZ	.062						
86	(0.9-0.2Sds)*DL+1.0...	Y	1	.865	ELX	.044	ELZ	.076						
87	(0.9-0.2Sds)*DL+1.0...	Y	1	.865	0		ELZ	.088						
88	(0.9-0.2Sds)*DL+1.0...	Y	1	.865	ELX	.044	ELZ	.076						
89	(0.9-0.2Sds)*DL+1.0...	Y	1	.865	ELX	.062	ELZ	.062						
90	(0.9-0.2Sds)*DL+1.0...	Y	1	.865	ELX	.076	ELZ	.044						
91	(0.9-0.2Sds)*DL+1.0...	Y	1	.865	ELX	.088	0							
92	(0.9-0.2Sds)*DL+1.0...	Y	1	.865	ELX	.076	ELZ	.044						
93	(0.9-0.2Sds)*DL+1.0...	Y	1	.865	ELX	.062	ELZ	.062						
94	(0.9-0.2Sds)*DL+1.0...	Y	1	.865	ELX	.044	ELZ	.076						
95	(0.9-0.2Sds)*DL+1.0...	Y	1	.865	0		ELZ	.088						



Company : Tower Engineering Professionals, Inc.
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Load Combinations (Continued)

Description	SolvePDe...	S...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...
96	(0.9-0.2Sds)*DL+1.0...	Y	1	.865	ELX	.044	ELZ	.076						
97	(0.9-0.2Sds)*DL+1.0...	Y	1	.865	ELX	.062	ELZ	.062						
98	(0.9-0.2Sds)*DL+1.0...	Y	1	.865	ELX	.076	ELZ	.044						

Joint Loads and Enforced Displacements (BLC 35 : Lm)

Joint Label	L,D,M	Direction	Magnitude(k,k-ft), (in,rad), (k*s^2/f...	
1	X1	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/f...	
1	FF1	L	Y	-25

Member Point Loads (BLC 1 : Dead)

Member Label	Direction	Magnitude(k,k-ft)	Location(ft,%)	
1	MP-1	Y	-0.75	.25
2	MP-1	Y	-0.73	2
3	MP-5	Y	-0.75	.25
4	MP-5	Y	-0.73	2
5	MP-9	Y	-0.75	.25
6	MP-9	Y	-0.73	2
7	MP-1	Y	-0.75	5.75
8	MP-5	Y	-0.75	5.75
9	MP-9	Y	-0.75	5.75

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

Member Label	Direction	Magnitude(k,k-ft)	Location(ft,%)	
1	MP-1	X	-376	.25
2	MP-1	X	-101	2
3	MP-5	X	-196	.25
4	MP-5	X	-086	2
5	MP-9	X	-196	.25
6	MP-9	X	-086	2
7	MP-1	X	-376	5.75
8	MP-5	X	-196	5.75
9	MP-9	X	-196	5.75

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

Member Label	Direction	Magnitude(k,k-ft)	Location(ft,%)	
1	MP-1	X	-273	.25
2	MP-1	X	-083	2
3	MP-5	X	-118	.25
4	MP-5	X	-07	2
5	MP-9	X	-273	.25
6	MP-9	X	-083	2
7	MP-1	X	-273	5.75
8	MP-5	X	-118	5.75
9	MP-9	X	-273	5.75



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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
10	MP-1	Z	-158	.25
11	MP-1	Z	-.048	2
12	MP-5	Z	-.068	.25
13	MP-5	Z	-.041	2
14	MP-9	Z	-158	.25
15	MP-9	Z	-.048	2
16	MP-1	Z	-158	5.75
17	MP-5	Z	-.068	5.75
18	MP-9	Z	-158	5.75

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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-1	X	-.181	.25
2	MP-1	X	-.064	2
3	MP-5	X	-.108	.25
4	MP-5	X	-.058	2
5	MP-9	X	-.254	.25
6	MP-9	X	-.07	2
7	MP-1	X	-.181	5.75
8	MP-5	X	-.108	5.75
9	MP-9	X	-.254	5.75
10	MP-1	Z	-.181	.25
11	MP-1	Z	-.064	2
12	MP-5	Z	-.108	.25
13	MP-5	Z	-.058	2
14	MP-9	Z	-.254	.25
15	MP-9	Z	-.07	2
16	MP-1	Z	-.181	5.75
17	MP-5	Z	-.108	5.75
18	MP-9	Z	-.254	5.75

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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-1	X	-.098	.25
2	MP-1	X	-.043	2
3	MP-5	X	-.098	.25
4	MP-5	X	-.043	2
5	MP-9	X	-.188	.25
6	MP-9	X	-.05	2
7	MP-1	X	-.098	5.75
8	MP-5	X	-.098	5.75
9	MP-9	X	-.188	5.75
10	MP-1	Z	-.17	.25
11	MP-1	Z	-.075	2
12	MP-5	Z	-.17	.25
13	MP-5	Z	-.075	2
14	MP-9	Z	-.325	.25
15	MP-9	Z	-.087	2
16	MP-1	Z	-.17	5.75
17	MP-5	Z	-.17	5.75
18	MP-9	Z	-.325	5.75



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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-1	Z	-.136	.25
2	MP-1	Z	-.081	2
3	MP-5	Z	-.316	.25
4	MP-5	Z	-.096	2
5	MP-9	Z	-.316	.25
6	MP-9	Z	-.096	2
7	MP-1	Z	-.136	5.75
8	MP-5	Z	-.316	5.75
9	MP-9	Z	-.316	5.75

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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-1	X	.098	.25
2	MP-1	X	.043	2
3	MP-5	X	.188	.25
4	MP-5	X	.05	2
5	MP-9	X	.098	.25
6	MP-9	X	.043	2
7	MP-1	X	.098	5.75
8	MP-5	X	.188	5.75
9	MP-9	X	.098	5.75
10	MP-1	Z	-.17	.25
11	MP-1	Z	-.075	2
12	MP-5	Z	-.325	.25
13	MP-5	Z	-.087	2
14	MP-9	Z	-.17	.25
15	MP-9	Z	-.075	2
16	MP-1	Z	-.17	5.75
17	MP-5	Z	-.325	5.75
18	MP-9	Z	-.17	5.75

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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-1	X	.181	.25
2	MP-1	X	.064	2
3	MP-5	X	.254	.25
4	MP-5	X	.07	2
5	MP-9	X	.108	.25
6	MP-9	X	.058	2
7	MP-1	X	.181	5.75
8	MP-5	X	.254	5.75
9	MP-9	X	.108	5.75
10	MP-1	Z	-.181	.25
11	MP-1	Z	-.064	2
12	MP-5	Z	-.254	.25
13	MP-5	Z	-.07	2
14	MP-9	Z	-.108	.25
15	MP-9	Z	-.058	2
16	MP-1	Z	-.181	5.75
17	MP-5	Z	-.254	5.75
18	MP-9	Z	-.108	5.75



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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-1	X	.273	.25
2	MP-1	X	.083	2
3	MP-5	X	.273	.25
4	MP-5	X	.083	2
5	MP-9	X	.118	.25
6	MP-9	X	.07	2
7	MP-1	X	.273	5.75
8	MP-5	X	.273	5.75
9	MP-9	X	.118	5.75
10	MP-1	Z	-.158	.25
11	MP-1	Z	-.048	2
12	MP-5	Z	-.158	.25
13	MP-5	Z	-.048	2
14	MP-9	Z	-.068	.25
15	MP-9	Z	-.041	2
16	MP-1	Z	-.158	5.75
17	MP-5	Z	-.158	5.75
18	MP-9	Z	-.068	5.75

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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-1	X	.376	.25
2	MP-1	X	.101	2
3	MP-5	X	.196	.25
4	MP-5	X	.086	2
5	MP-9	X	.196	.25
6	MP-9	X	.086	2
7	MP-1	X	.376	5.75
8	MP-5	X	.196	5.75
9	MP-9	X	.196	5.75

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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-1	X	.273	.25
2	MP-1	X	.083	2
3	MP-5	X	.118	.25
4	MP-5	X	.07	2
5	MP-9	X	.273	.25
6	MP-9	X	.083	2
7	MP-1	X	.273	5.75
8	MP-5	X	.118	5.75
9	MP-9	X	.273	5.75
10	MP-1	Z	.158	.25
11	MP-1	Z	.048	2
12	MP-5	Z	.068	.25
13	MP-5	Z	.041	2
14	MP-9	Z	.158	.25
15	MP-9	Z	.048	2
16	MP-1	Z	.158	5.75
17	MP-5	Z	.068	5.75
18	MP-9	Z	.158	5.75



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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-1	X	.181	.25
2	MP-1	X	.064	2
3	MP-5	X	.108	.25
4	MP-5	X	.058	2
5	MP-9	X	.254	.25
6	MP-9	X	.07	2
7	MP-1	X	.181	5.75
8	MP-5	X	.108	5.75
9	MP-9	X	.254	5.75
10	MP-1	Z	.181	.25
11	MP-1	Z	.064	2
12	MP-5	Z	.108	.25
13	MP-5	Z	.058	2
14	MP-9	Z	.254	.25
15	MP-9	Z	.07	2
16	MP-1	Z	.181	5.75
17	MP-5	Z	.108	5.75
18	MP-9	Z	.254	5.75

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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-1	X	.098	.25
2	MP-1	X	.043	2
3	MP-5	X	.098	.25
4	MP-5	X	.043	2
5	MP-9	X	.188	.25
6	MP-9	X	.05	2
7	MP-1	X	.098	5.75
8	MP-5	X	.098	5.75
9	MP-9	X	.188	5.75
10	MP-1	Z	.17	.25
11	MP-1	Z	.075	2
12	MP-5	Z	.17	.25
13	MP-5	Z	.075	2
14	MP-9	Z	.325	.25
15	MP-9	Z	.087	2
16	MP-1	Z	.17	5.75
17	MP-5	Z	.17	5.75
18	MP-9	Z	.325	5.75

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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-1	Z	.136	.25
2	MP-1	Z	.081	2
3	MP-5	Z	.316	.25
4	MP-5	Z	.096	2
5	MP-9	Z	.316	.25
6	MP-9	Z	.096	2
7	MP-1	Z	.136	5.75
8	MP-5	Z	.316	5.75
9	MP-9	Z	.316	5.75



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.098	.25
2	MP-1	X	-.043	2
3	MP-5	X	-.188	.25
4	MP-5	X	-.05	2
5	MP-9	X	-.098	.25
6	MP-9	X	-.043	2
7	MP-1	X	-.098	5.75
8	MP-5	X	-.188	5.75
9	MP-9	X	-.098	5.75
10	MP-1	Z	.17	.25
11	MP-1	Z	.075	2
12	MP-5	Z	.325	.25
13	MP-5	Z	.087	2
14	MP-9	Z	.17	.25
15	MP-9	Z	.075	2
16	MP-1	Z	.17	5.75
17	MP-5	Z	.325	5.75
18	MP-9	Z	.17	5.75

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.181	.25
2	MP-1	X	-.064	2
3	MP-5	X	-.254	.25
4	MP-5	X	-.07	2
5	MP-9	X	-.108	.25
6	MP-9	X	-.058	2
7	MP-1	X	-.181	5.75
8	MP-5	X	-.254	5.75
9	MP-9	X	-.108	5.75
10	MP-1	Z	.181	.25
11	MP-1	Z	.064	2
12	MP-5	Z	.254	.25
13	MP-5	Z	.07	2
14	MP-9	Z	.108	.25
15	MP-9	Z	.058	2
16	MP-1	Z	.181	5.75
17	MP-5	Z	.254	5.75
18	MP-9	Z	.108	5.75

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.273	.25
2	MP-1	X	-.083	2
3	MP-5	X	-.273	.25
4	MP-5	X	-.083	2
5	MP-9	X	-.118	.25
6	MP-9	X	-.07	2
7	MP-1	X	-.273	5.75
8	MP-5	X	-.273	5.75
9	MP-9	X	-.118	5.75



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
10	MP-1	Z	.158	.25
11	MP-1	Z	.048	2
12	MP-5	Z	.158	.25
13	MP-5	Z	.048	2
14	MP-9	Z	.068	.25
15	MP-9	Z	.041	2
16	MP-1	Z	.158	5.75
17	MP-5	Z	.158	5.75
18	MP-9	Z	.068	5.75

Member Point Loads (BLC 18 : Ice Weight)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	Y	-.206	.25
2	MP-1	Y	-.079	2
3	MP-5	Y	-.206	.25
4	MP-5	Y	-.079	2
5	MP-9	Y	-.206	.25
6	MP-9	Y	-.079	2
7	MP-1	Y	-.206	5.75
8	MP-5	Y	-.206	5.75
9	MP-9	Y	-.206	5.75

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.06	.25
2	MP-1	X	-.021	2
3	MP-5	X	-.06	.25
4	MP-5	X	-.021	2
5	MP-9	X	-.06	.25
6	MP-9	X	-.021	2
7	MP-1	X	-.06	5.75
8	MP-5	X	-.06	5.75
9	MP-9	X	-.06	5.75

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.044	.25
2	MP-1	X	-.017	2
3	MP-5	X	-.022	.25
4	MP-5	X	-.015	2
5	MP-9	X	-.044	.25
6	MP-9	X	-.017	2
7	MP-1	X	-.044	5.75
8	MP-5	X	-.022	5.75
9	MP-9	X	-.044	5.75
10	MP-1	Z	-.026	.25
11	MP-1	Z	-.01	2
12	MP-5	Z	-.013	.25
13	MP-5	Z	-.009	2
14	MP-9	Z	-.026	.25



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
15	MP-9	Z	-01	2
16	MP-1	Z	-026	5.75
17	MP-5	Z	-013	5.75
18	MP-9	Z	-026	5.75

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP-1	X	-03	.25
2	MP-1	X	-013	2
3	MP-5	X	-02	.25
4	MP-5	X	-013	2
5	MP-9	X	-041	.25
6	MP-9	X	-014	2
7	MP-1	X	-03	5.75
8	MP-5	X	-02	5.75
9	MP-9	X	-041	5.75
10	MP-1	Z	-03	.25
11	MP-1	Z	-013	2
12	MP-5	Z	-02	.25
13	MP-5	Z	-013	2
14	MP-9	Z	-041	.25
15	MP-9	Z	-014	2
16	MP-1	Z	-03	5.75
17	MP-5	Z	-02	5.75
18	MP-9	Z	-041	5.75

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP-1	X	-017	.25
2	MP-1	X	-009	2
3	MP-5	X	-017	.25
4	MP-5	X	-009	2
5	MP-9	X	-03	.25
6	MP-9	X	-01	2
7	MP-1	X	-017	5.75
8	MP-5	X	-017	5.75
9	MP-9	X	-03	5.75
10	MP-1	Z	-03	.25
11	MP-1	Z	-016	2
12	MP-5	Z	-03	.25
13	MP-5	Z	-016	2
14	MP-9	Z	-052	.25
15	MP-9	Z	-018	2
16	MP-1	Z	-03	5.75
17	MP-5	Z	-03	5.75
18	MP-9	Z	-052	5.75

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP-1	Z	-026	.25



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
2	MP-1	Z	-017	2
3	MP-5	Z	-026	.25
4	MP-5	Z	-017	2
5	MP-9	Z	-026	.25
6	MP-9	Z	-017	2
7	MP-1	Z	-026	5.75
8	MP-5	Z	-026	5.75
9	MP-9	Z	-026	5.75

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP-1	X	.017	.25
2	MP-1	X	.009	2
3	MP-5	X	.03	.25
4	MP-5	X	.01	2
5	MP-9	X	.017	.25
6	MP-9	X	.009	2
7	MP-1	X	.017	5.75
8	MP-5	X	.03	5.75
9	MP-9	X	.017	5.75
10	MP-1	Z	-03	.25
11	MP-1	Z	-016	2
12	MP-5	Z	-052	.25
13	MP-5	Z	-018	2
14	MP-9	Z	-03	.25
15	MP-9	Z	-016	2
16	MP-1	Z	-03	5.75
17	MP-5	Z	-052	5.75
18	MP-9	Z	-03	5.75

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP-1	X	.03	.25
2	MP-1	X	.013	2
3	MP-5	X	.041	.25
4	MP-5	X	.014	2
5	MP-9	X	.02	.25
6	MP-9	X	.013	2
7	MP-1	X	.03	5.75
8	MP-5	X	.041	5.75
9	MP-9	X	.02	5.75
10	MP-1	Z	-03	.25
11	MP-1	Z	-013	2
12	MP-5	Z	-041	.25
13	MP-5	Z	-014	2
14	MP-9	Z	-02	.25
15	MP-9	Z	-013	2
16	MP-1	Z	-03	5.75
17	MP-5	Z	-041	5.75
18	MP-9	Z	-02	5.75



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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-1	X	.044	.25
2	MP-1	X	.017	2
3	MP-5	X	.044	.25
4	MP-5	X	.017	2
5	MP-9	X	.022	.25
6	MP-9	X	.015	2
7	MP-1	X	.044	5.75
8	MP-5	X	.044	5.75
9	MP-9	X	.022	5.75
10	MP-1	Z	-.026	.25
11	MP-1	Z	-.01	2
12	MP-5	Z	-.026	.25
13	MP-5	Z	-.01	2
14	MP-9	Z	-.013	.25
15	MP-9	Z	-.009	2
16	MP-1	Z	-.026	5.75
17	MP-5	Z	-.026	5.75
18	MP-9	Z	-.013	5.75

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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-1	X	.06	.25
2	MP-1	X	.021	2
3	MP-5	X	.06	.25
4	MP-5	X	.021	2
5	MP-9	X	.06	.25
6	MP-9	X	.021	2
7	MP-1	X	.06	5.75
8	MP-5	X	.06	5.75
9	MP-9	X	.06	5.75

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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-1	X	.044	.25
2	MP-1	X	.017	2
3	MP-5	X	.022	.25
4	MP-5	X	.015	2
5	MP-9	X	.044	.25
6	MP-9	X	.017	2
7	MP-1	X	.044	5.75
8	MP-5	X	.022	5.75
9	MP-9	X	.044	5.75
10	MP-1	Z	.026	.25
11	MP-1	Z	.01	2
12	MP-5	Z	.013	.25
13	MP-5	Z	.009	2
14	MP-9	Z	.026	.25
15	MP-9	Z	.01	2
16	MP-1	Z	.026	5.75
17	MP-5	Z	.013	5.75
18	MP-9	Z	.026	5.75



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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-1	X	.03	.25
2	MP-1	X	.013	2
3	MP-5	X	.02	.25
4	MP-5	X	.013	2
5	MP-9	X	.041	.25
6	MP-9	X	.014	2
7	MP-1	X	.03	5.75
8	MP-5	X	.02	5.75
9	MP-9	X	.041	5.75
10	MP-1	Z	.03	.25
11	MP-1	Z	.013	2
12	MP-5	Z	.02	.25
13	MP-5	Z	.013	2
14	MP-9	Z	.041	.25
15	MP-9	Z	.014	2
16	MP-1	Z	.03	5.75
17	MP-5	Z	.02	5.75
18	MP-9	Z	.041	5.75

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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-1	X	.017	.25
2	MP-1	X	.009	2
3	MP-5	X	.017	.25
4	MP-5	X	.009	2
5	MP-9	X	.03	.25
6	MP-9	X	.01	2
7	MP-1	X	.017	5.75
8	MP-5	X	.017	5.75
9	MP-9	X	.03	5.75
10	MP-1	Z	.03	.25
11	MP-1	Z	.016	2
12	MP-5	Z	.03	.25
13	MP-5	Z	.016	2
14	MP-9	Z	.052	.25
15	MP-9	Z	.018	2
16	MP-1	Z	.03	5.75
17	MP-5	Z	.03	5.75
18	MP-9	Z	.052	5.75

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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-1	Z	.026	.25
2	MP-1	Z	.017	2
3	MP-5	Z	.026	.25
4	MP-5	Z	.017	2
5	MP-9	Z	.026	.25
6	MP-9	Z	.017	2
7	MP-1	Z	.026	5.75
8	MP-5	Z	.026	5.75
9	MP-9	Z	.026	5.75



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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-1	X	-0.17	.25
2	MP-1	X	-0.09	2
3	MP-5	X	-.03	.25
4	MP-5	X	-.01	2
5	MP-9	X	-0.17	.25
6	MP-9	X	-0.09	2
7	MP-1	X	-0.17	5.75
8	MP-5	X	-.03	5.75
9	MP-9	X	-0.17	5.75
10	MP-1	Z	.03	.25
11	MP-1	Z	.016	2
12	MP-5	Z	.052	.25
13	MP-5	Z	.018	2
14	MP-9	Z	.03	.25
15	MP-9	Z	.016	2
16	MP-1	Z	.03	5.75
17	MP-5	Z	.052	5.75
18	MP-9	Z	.03	5.75

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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-1	X	-.03	.25
2	MP-1	X	-0.13	2
3	MP-5	X	-0.41	.25
4	MP-5	X	-0.14	2
5	MP-9	X	-.02	.25
6	MP-9	X	-0.13	2
7	MP-1	X	-.03	5.75
8	MP-5	X	-0.41	5.75
9	MP-9	X	-.02	5.75
10	MP-1	Z	.03	.25
11	MP-1	Z	.013	2
12	MP-5	Z	.041	.25
13	MP-5	Z	.014	2
14	MP-9	Z	.02	.25
15	MP-9	Z	.013	2
16	MP-1	Z	.03	5.75
17	MP-5	Z	.041	5.75
18	MP-9	Z	.02	5.75

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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-1	X	-0.44	.25
2	MP-1	X	-0.17	2
3	MP-5	X	-0.44	.25
4	MP-5	X	-0.17	2
5	MP-9	X	-0.22	.25
6	MP-9	X	-0.15	2
7	MP-1	X	-0.44	5.75
8	MP-5	X	-0.44	5.75
9	MP-9	X	-0.22	5.75



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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
10	MP-1	Z	.026	.25
11	MP-1	Z	.01	2
12	MP-5	Z	.026	.25
13	MP-5	Z	.01	2
14	MP-9	Z	.013	.25
15	MP-9	Z	.009	2
16	MP-1	Z	.026	5.75
17	MP-5	Z	.026	5.75
18	MP-9	Z	.013	5.75

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	FFTH	X	-.034	-.034	0	%100
2	MP-1	X	-.012	-.012	0	%100
3	MP-2	X	-.011	-.011	0	%100
4	MP-3	X	-.012	-.012	0	%100
5	MP-4	X	-.011	-.011	0	%100
6	MP-5	X	-.012	-.012	0	%100
7	MP-6	X	-.013	-.013	0	%100
8	MP-6B	X	-.01	-.01	0	%100
9	MP-6C	X	-.008	-.008	0	%100
10	MP-7	X	-.012	-.012	0	%100
11	MP-8	X	-.011	-.011	0	%100
12	MP-9	X	-.012	-.012	0	%100
13	MP-10	X	-.011	-.011	0	%100
14	MP-11	X	-.012	-.012	0	%100
15	MP-12	X	-.011	-.011	0	%100
16	SA-1	X	-.03	-.03	0	%100
17	SA-2	X	0	0	0	%100
18	SA-3	X	-.03	-.03	0	%100
19	SF2-TH	X	-.016	-.016	0	%100
20	SF3-TH	X	-.016	-.016	0	%100
21	FF-HR	X	-.012	-.012	0	%100
22	SF1-HR	X	-.006	-.006	0	%100
23	SF2-HR	X	-.006	-.006	0	%100
24	HRC-1	X	-.007	-.007	0	%100
25	HRC-2	X	-.007	-.007	0	%100
26	HRC-3	X	-.015	-.015	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	FFTH	X	-.026	-.026	0	%100
2	MP-1	X	-.011	-.011	0	%100
3	MP-2	X	-.01	-.01	0	%100
4	MP-3	X	-.011	-.011	0	%100
5	MP-4	X	-.01	-.01	0	%100
6	MP-5	X	-.011	-.011	0	%100
7	MP-6	X	-.011	-.011	0	%100
8	MP-6B	X	-.008	-.008	0	%100
9	MP-6C	X	-.007	-.007	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.%]	
10	MP-7	X	-0.11	-0.11	0	%100
11	MP-8	X	-0.1	-0.1	0	%100
12	MP-9	X	-0.11	-0.11	0	%100
13	MP-10	X	-0.1	-0.1	0	%100
14	MP-11	X	-0.11	-0.11	0	%100
15	MP-12	X	-0.1	-0.1	0	%100
16	SA-1	X	-0.15	-0.15	0	%100
17	SA-2	X	-0.09	-0.09	0	%100
18	SA-3	X	-0.03	-0.03	0	%100
19	SF2-TH	X	0	0	0	%100
20	SF3-TH	X	-0.024	-0.024	0	%100
21	FF-HR	X	-0.09	-0.09	0	%100
22	SF1-HR	X	-0.09	-0.09	0	%100
23	SF2-HR	X	0	0	0	%100
24	HRC-1	X	-0.1	-0.1	0	%100
25	HRC-2	X	0	0	0	%100
26	HRC-3	X	-0.11	-0.11	0	%100
27	FFTH	Z	-0.15	-0.15	0	%100
28	MP-1	Z	-0.06	-0.06	0	%100
29	MP-2	Z	-0.06	-0.06	0	%100
30	MP-3	Z	-0.06	-0.06	0	%100
31	MP-4	Z	-0.06	-0.06	0	%100
32	MP-5	Z	-0.06	-0.06	0	%100
33	MP-6	Z	-0.06	-0.06	0	%100
34	MP-6B	Z	-0.05	-0.05	0	%100
35	MP-6C	Z	-0.04	-0.04	0	%100
36	MP-7	Z	-0.06	-0.06	0	%100
37	MP-8	Z	-0.06	-0.06	0	%100
38	MP-9	Z	-0.06	-0.06	0	%100
39	MP-10	Z	-0.06	-0.06	0	%100
40	MP-11	Z	-0.06	-0.06	0	%100
41	MP-12	Z	-0.06	-0.06	0	%100
42	SA-1	Z	-0.07	-0.07	0	%100
43	SA-2	Z	-0.09	-0.09	0	%100
44	SA-3	Z	-0.14	-0.14	0	%100
45	SF2-TH	Z	0	0	0	%100
46	SF3-TH	Z	-0.15	-0.15	0	%100
47	FF-HR	Z	-0.05	-0.05	0	%100
48	SF1-HR	Z	-0.05	-0.05	0	%100
49	SF2-HR	Z	0	0	0	%100
50	HRC-1	Z	-0.06	-0.06	0	%100
51	HRC-2	Z	0	0	0	%100
52	HRC-3	Z	-0.06	-0.06	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	FFTH	X	-0.17	-0.17	0	%100
2	MP-1	X	-0.09	-0.09	0	%100
3	MP-2	X	-0.08	-0.08	0	%100
4	MP-3	X	-0.09	-0.09	0	%100
5	MP-4	X	-0.08	-0.08	0	%100



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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.%]	
6	MP-5	X	-0.09	-0.09	0	%100
7	MP-6	X	-0.09	-0.09	0	%100
8	MP-6B	X	-0.07	-0.07	0	%100
9	MP-6C	X	-0.05	-0.05	0	%100
10	MP-7	X	-0.09	-0.09	0	%100
11	MP-8	X	-0.08	-0.08	0	%100
12	MP-9	X	-0.09	-0.09	0	%100
13	MP-10	X	-0.08	-0.08	0	%100
14	MP-11	X	-0.09	-0.09	0	%100
15	MP-12	X	-0.08	-0.08	0	%100
16	SA-1	X	-0.06	-0.06	0	%100
17	SA-2	X	-0.1	-0.1	0	%100
18	SA-3	X	-0.023	-0.023	0	%100
19	SF2-TH	X	-0.06	-0.06	0	%100
20	SF3-TH	X	-0.021	-0.021	0	%100
21	FF-HR	X	-0.06	-0.06	0	%100
22	SF1-HR	X	-0.08	-0.08	0	%100
23	SF2-HR	X	-0.02	-0.02	0	%100
24	HRC-1	X	-0.09	-0.09	0	%100
25	HRC-2	X	-0.02	-0.02	0	%100
26	HRC-3	X	-0.07	-0.07	0	%100
27	FFTH	Z	-0.17	-0.17	0	%100
28	MP-1	Z	-0.09	-0.09	0	%100
29	MP-2	Z	-0.08	-0.08	0	%100
30	MP-3	Z	-0.09	-0.09	0	%100
31	MP-4	Z	-0.08	-0.08	0	%100
32	MP-5	Z	-0.09	-0.09	0	%100
33	MP-6	Z	-0.09	-0.09	0	%100
34	MP-6B	Z	-0.07	-0.07	0	%100
35	MP-6C	Z	-0.05	-0.05	0	%100
36	MP-7	Z	-0.09	-0.09	0	%100
37	MP-8	Z	-0.08	-0.08	0	%100
38	MP-9	Z	-0.09	-0.09	0	%100
39	MP-10	Z	-0.08	-0.08	0	%100
40	MP-11	Z	-0.09	-0.09	0	%100
41	MP-12	Z	-0.08	-0.08	0	%100
42	SA-1	Z	-0.05	-0.05	0	%100
43	SA-2	Z	-0.17	-0.17	0	%100
44	SA-3	Z	-0.2	-0.2	0	%100
45	SF2-TH	Z	-0.06	-0.06	0	%100
46	SF3-TH	Z	-0.023	-0.023	0	%100
47	FF-HR	Z	-0.06	-0.06	0	%100
48	SF1-HR	Z	-0.08	-0.08	0	%100
49	SF2-HR	Z	-0.02	-0.02	0	%100
50	HRC-1	Z	-0.1	-0.1	0	%100
51	HRC-2	Z	-0.03	-0.03	0	%100
52	HRC-3	Z	-0.07	-0.07	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	FFTH	X	-0.09	-0.09	0	%100



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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.%]	
2	MP-1	X	-0.06	-0.06	0	%100
3	MP-2	X	-0.06	-0.06	0	%100
4	MP-3	X	-0.06	-0.06	0	%100
5	MP-4	X	-0.06	-0.06	0	%100
6	MP-5	X	-0.06	-0.06	0	%100
7	MP-6	X	-0.06	-0.06	0	%100
8	MP-6B	X	-0.05	-0.05	0	%100
9	MP-6C	X	-0.04	-0.04	0	%100
10	MP-7	X	-0.06	-0.06	0	%100
11	MP-8	X	-0.06	-0.06	0	%100
12	MP-9	X	-0.06	-0.06	0	%100
13	MP-10	X	-0.06	-0.06	0	%100
14	MP-11	X	-0.06	-0.06	0	%100
15	MP-12	X	-0.06	-0.06	0	%100
16	SA-1	X	0	0	0	%100
17	SA-2	X	-0.09	-0.09	0	%100
18	SA-3	X	-0.15	-0.15	0	%100
19	SF2-TH	X	-0.08	-0.08	0	%100
20	SF3-TH	X	-0.16	-0.16	0	%100
21	FF-HR	X	-0.03	-0.03	0	%100
22	SF1-HR	X	-0.06	-0.06	0	%100
23	SF2-HR	X	-0.03	-0.03	0	%100
24	HRC-1	X	-0.07	-0.07	0	%100
25	HRC-2	X	-0.03	-0.03	0	%100
26	HRC-3	X	-0.04	-0.04	0	%100
27	FFTH	Z	-0.15	-0.15	0	%100
28	MP-1	Z	-0.11	-0.11	0	%100
29	MP-2	Z	-0.1	-0.1	0	%100
30	MP-3	Z	-0.11	-0.11	0	%100
31	MP-4	Z	-0.1	-0.1	0	%100
32	MP-5	Z	-0.11	-0.11	0	%100
33	MP-6	Z	-0.11	-0.11	0	%100
34	MP-6B	Z	-0.08	-0.08	0	%100
35	MP-6C	Z	-0.07	-0.07	0	%100
36	MP-7	Z	-0.11	-0.11	0	%100
37	MP-8	Z	-0.1	-0.1	0	%100
38	MP-9	Z	-0.11	-0.11	0	%100
39	MP-10	Z	-0.1	-0.1	0	%100
40	MP-11	Z	-0.11	-0.11	0	%100
41	MP-12	Z	-0.1	-0.1	0	%100
42	SA-1	Z	0	0	0	%100
43	SA-2	Z	-0.026	-0.026	0	%100
44	SA-3	Z	-0.022	-0.022	0	%100
45	SF2-TH	Z	-0.15	-0.15	0	%100
46	SF3-TH	Z	-0.3	-0.3	0	%100
47	FF-HR	Z	-0.05	-0.05	0	%100
48	SF1-HR	Z	-0.11	-0.11	0	%100
49	SF2-HR	Z	-0.05	-0.05	0	%100
50	HRC-1	Z	-0.12	-0.12	0	%100
51	HRC-2	Z	-0.06	-0.06	0	%100
52	HRC-3	Z	-0.06	-0.06	0	%100



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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	FFTH	Z	0	0	0	%100
2	MP-1	Z	-0.12	-0.12	0	%100
3	MP-2	Z	-0.11	-0.11	0	%100
4	MP-3	Z	-0.12	-0.12	0	%100
5	MP-4	Z	-0.11	-0.11	0	%100
6	MP-5	Z	-0.12	-0.12	0	%100
7	MP-6	Z	-0.13	-0.13	0	%100
8	MP-6B	Z	-0.1	-0.1	0	%100
9	MP-6C	Z	-0.08	-0.08	0	%100
10	MP-7	Z	-0.12	-0.12	0	%100
11	MP-8	Z	-0.11	-0.11	0	%100
12	MP-9	Z	-0.12	-0.12	0	%100
13	MP-10	Z	-0.11	-0.11	0	%100
14	MP-11	Z	-0.12	-0.12	0	%100
15	MP-12	Z	-0.11	-0.11	0	%100
16	SA-1	Z	-0.14	-0.14	0	%100
17	SA-2	Z	-0.34	-0.34	0	%100
18	SA-3	Z	-0.14	-0.14	0	%100
19	SF2-TH	Z	-0.3	-0.3	0	%100
20	SF3-TH	Z	-0.3	-0.3	0	%100
21	FF-HR	Z	0	0	0	%100
22	SF1-HR	Z	-0.11	-0.11	0	%100
23	SF2-HR	Z	-0.11	-0.11	0	%100
24	HRC-1	Z	-0.12	-0.12	0	%100
25	HRC-2	Z	-0.12	-0.12	0	%100
26	HRC-3	Z	0	0	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	FFTH	X	.009	.009	0	%100
2	MP-1	X	.006	.006	0	%100
3	MP-2	X	.006	.006	0	%100
4	MP-3	X	.006	.006	0	%100
5	MP-4	X	.006	.006	0	%100
6	MP-5	X	.006	.006	0	%100
7	MP-6	X	.006	.006	0	%100
8	MP-6B	X	.005	.005	0	%100
9	MP-6C	X	.004	.004	0	%100
10	MP-7	X	.006	.006	0	%100
11	MP-8	X	.006	.006	0	%100
12	MP-9	X	.006	.006	0	%100
13	MP-10	X	.006	.006	0	%100
14	MP-11	X	.006	.006	0	%100
15	MP-12	X	.006	.006	0	%100
16	SA-1	X	.015	.015	0	%100
17	SA-2	X	.009	.009	0	%100
18	SA-3	X	0	0	0	%100
19	SF2-TH	X	.016	.016	0	%100
20	SF3-TH	X	.008	.008	0	%100
21	FF-HR	X	.003	.003	0	%100
22	SF1-HR	X	.003	.003	0	%100



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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.%]	
23	SF2-HR	X	.006	.006	0	%100
24	HRC-1	X	.003	.003	0	%100
25	HRC-2	X	.007	.007	0	%100
26	HRC-3	X	.004	.004	0	%100
27	FFTH	Z	-.015	-.015	0	%100
28	MP-1	Z	-.011	-.011	0	%100
29	MP-2	Z	-.01	-.01	0	%100
30	MP-3	Z	-.011	-.011	0	%100
31	MP-4	Z	-.01	-.01	0	%100
32	MP-5	Z	-.011	-.011	0	%100
33	MP-6	Z	-.011	-.011	0	%100
34	MP-6B	Z	-.008	-.008	0	%100
35	MP-6C	Z	-.007	-.007	0	%100
36	MP-7	Z	-.011	-.011	0	%100
37	MP-8	Z	-.01	-.01	0	%100
38	MP-9	Z	-.011	-.011	0	%100
39	MP-10	Z	-.01	-.01	0	%100
40	MP-11	Z	-.011	-.011	0	%100
41	MP-12	Z	-.01	-.01	0	%100
42	SA-1	Z	-.022	-.022	0	%100
43	SA-2	Z	-.026	-.026	0	%100
44	SA-3	Z	0	0	0	%100
45	SF2-TH	Z	-.03	-.03	0	%100
46	SF3-TH	Z	-.015	-.015	0	%100
47	FF-HR	Z	-.005	-.005	0	%100
48	SF1-HR	Z	-.005	-.005	0	%100
49	SF2-HR	Z	-.011	-.011	0	%100
50	HRC-1	Z	-.006	-.006	0	%100
51	HRC-2	Z	-.012	-.012	0	%100
52	HRC-3	Z	-.006	-.006	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	FFTH	X	.017	.017	0	%100
2	MP-1	X	.009	.009	0	%100
3	MP-2	X	.008	.008	0	%100
4	MP-3	X	.009	.009	0	%100
5	MP-4	X	.008	.008	0	%100
6	MP-5	X	.009	.009	0	%100
7	MP-6	X	.009	.009	0	%100
8	MP-6B	X	.007	.007	0	%100
9	MP-6C	X	.005	.005	0	%100
10	MP-7	X	.009	.009	0	%100
11	MP-8	X	.008	.008	0	%100
12	MP-9	X	.009	.009	0	%100
13	MP-10	X	.008	.008	0	%100
14	MP-11	X	.009	.009	0	%100
15	MP-12	X	.008	.008	0	%100
16	SA-1	X	.023	.023	0	%100
17	SA-2	X	.01	.01	0	%100
18	SA-3	X	.006	.006	0	%100



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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.%]	
19	SF2-TH	X	.021	.021	0	%100
20	SF3-TH	X	.006	.006	0	%100
21	FF-HR	X	.006	.006	0	%100
22	SF1-HR	X	.002	.002	0	%100
23	SF2-HR	X	.008	.008	0	%100
24	HRC-1	X	.002	.002	0	%100
25	HRC-2	X	.009	.009	0	%100
26	HRC-3	X	.007	.007	0	%100
27	FFTH	Z	-.017	-.017	0	%100
28	MP-1	Z	-.009	-.009	0	%100
29	MP-2	Z	-.008	-.008	0	%100
30	MP-3	Z	-.009	-.009	0	%100
31	MP-4	Z	-.008	-.008	0	%100
32	MP-5	Z	-.009	-.009	0	%100
33	MP-6	Z	-.009	-.009	0	%100
34	MP-6B	Z	-.007	-.007	0	%100
35	MP-6C	Z	-.005	-.005	0	%100
36	MP-7	Z	-.009	-.009	0	%100
37	MP-8	Z	-.008	-.008	0	%100
38	MP-9	Z	-.009	-.009	0	%100
39	MP-10	Z	-.008	-.008	0	%100
40	MP-11	Z	-.009	-.009	0	%100
41	MP-12	Z	-.008	-.008	0	%100
42	SA-1	Z	-.02	-.02	0	%100
43	SA-2	Z	-.017	-.017	0	%100
44	SA-3	Z	-.005	-.005	0	%100
45	SF2-TH	Z	-.023	-.023	0	%100
46	SF3-TH	Z	-.006	-.006	0	%100
47	FF-HR	Z	-.006	-.006	0	%100
48	SF1-HR	Z	-.002	-.002	0	%100
49	SF2-HR	Z	-.008	-.008	0	%100
50	HRC-1	Z	-.003	-.003	0	%100
51	HRC-2	Z	-.01	-.01	0	%100
52	HRC-3	Z	-.007	-.007	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	FFTH	X	.026	.026	0	%100
2	MP-1	X	.011	.011	0	%100
3	MP-2	X	.01	.01	0	%100
4	MP-3	X	.011	.011	0	%100
5	MP-4	X	.01	.01	0	%100
6	MP-5	X	.011	.011	0	%100
7	MP-6	X	.011	.011	0	%100
8	MP-6B	X	.008	.008	0	%100
9	MP-6C	X	.007	.007	0	%100
10	MP-7	X	.011	.011	0	%100
11	MP-8	X	.01	.01	0	%100
12	MP-9	X	.011	.011	0	%100
13	MP-10	X	.01	.01	0	%100
14	MP-11	X	.011	.011	0	%100



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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.%]	
15	MP-12	X	.01	.01	0	%100
16	SA-1	X	.03	.03	0	%100
17	SA-2	X	.009	.009	0	%100
18	SA-3	X	.015	.015	0	%100
19	SF2-TH	X	.024	.024	0	%100
20	SF3-TH	X	0	0	0	%100
21	FF-HR	X	.009	.009	0	%100
22	SF1-HR	X	0	0	0	%100
23	SF2-HR	X	.009	.009	0	%100
24	HRC-1	X	0	0	0	%100
25	HRC-2	X	.01	.01	0	%100
26	HRC-3	X	.011	.011	0	%100
27	FFTH	Z	-.015	-.015	0	%100
28	MP-1	Z	-.006	-.006	0	%100
29	MP-2	Z	-.006	-.006	0	%100
30	MP-3	Z	-.006	-.006	0	%100
31	MP-4	Z	-.006	-.006	0	%100
32	MP-5	Z	-.006	-.006	0	%100
33	MP-6	Z	-.006	-.006	0	%100
34	MP-6B	Z	-.005	-.005	0	%100
35	MP-6C	Z	-.004	-.004	0	%100
36	MP-7	Z	-.006	-.006	0	%100
37	MP-8	Z	-.006	-.006	0	%100
38	MP-9	Z	-.006	-.006	0	%100
39	MP-10	Z	-.006	-.006	0	%100
40	MP-11	Z	-.006	-.006	0	%100
41	MP-12	Z	-.006	-.006	0	%100
42	SA-1	Z	-.014	-.014	0	%100
43	SA-2	Z	-.009	-.009	0	%100
44	SA-3	Z	-.007	-.007	0	%100
45	SF2-TH	Z	-.015	-.015	0	%100
46	SF3-TH	Z	0	0	0	%100
47	FF-HR	Z	-.005	-.005	0	%100
48	SF1-HR	Z	0	0	0	%100
49	SF2-HR	Z	-.005	-.005	0	%100
50	HRC-1	Z	0	0	0	%100
51	HRC-2	Z	-.006	-.006	0	%100
52	HRC-3	Z	-.006	-.006	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	FFTH	X	.034	.034	0	%100
2	MP-1	X	.012	.012	0	%100
3	MP-2	X	.011	.011	0	%100
4	MP-3	X	.012	.012	0	%100
5	MP-4	X	.011	.011	0	%100
6	MP-5	X	.012	.012	0	%100
7	MP-6	X	.013	.013	0	%100
8	MP-6B	X	.01	.01	0	%100
9	MP-6C	X	.008	.008	0	%100
10	MP-7	X	.012	.012	0	%100



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 Designer : DJM
 Job Number : TEP No. 144549.564764
 Model Name : CCI BU No 876406

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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.%]	
11	MP-8	X	.011	.011	0	%100
12	MP-9	X	.012	.012	0	%100
13	MP-10	X	.011	.011	0	%100
14	MP-11	X	.012	.012	0	%100
15	MP-12	X	.011	.011	0	%100
16	SA-1	X	.03	.03	0	%100
17	SA-2	X	0	0	0	%100
18	SA-3	X	.03	.03	0	%100
19	SF2-TH	X	.016	.016	0	%100
20	SF3-TH	X	.016	.016	0	%100
21	FF-HR	X	.012	.012	0	%100
22	SF1-HR	X	.006	.006	0	%100
23	SF2-HR	X	.006	.006	0	%100
24	HRC-1	X	.007	.007	0	%100
25	HRC-2	X	.007	.007	0	%100
26	HRC-3	X	.015	.015	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	FFTH	X	.026	.026	0	%100
2	MP-1	X	.011	.011	0	%100
3	MP-2	X	.01	.01	0	%100
4	MP-3	X	.011	.011	0	%100
5	MP-4	X	.01	.01	0	%100
6	MP-5	X	.011	.011	0	%100
7	MP-6	X	.011	.011	0	%100
8	MP-6B	X	.008	.008	0	%100
9	MP-6C	X	.007	.007	0	%100
10	MP-7	X	.011	.011	0	%100
11	MP-8	X	.01	.01	0	%100
12	MP-9	X	.011	.011	0	%100
13	MP-10	X	.01	.01	0	%100
14	MP-11	X	.011	.011	0	%100
15	MP-12	X	.01	.01	0	%100
16	SA-1	X	.015	.015	0	%100
17	SA-2	X	.009	.009	0	%100
18	SA-3	X	.03	.03	0	%100
19	SF2-TH	X	0	0	0	%100
20	SF3-TH	X	.024	.024	0	%100
21	FF-HR	X	.009	.009	0	%100
22	SF1-HR	X	.009	.009	0	%100
23	SF2-HR	X	0	0	0	%100
24	HRC-1	X	.01	.01	0	%100
25	HRC-2	X	0	0	0	%100
26	HRC-3	X	.011	.011	0	%100
27	FFTH	Z	.015	.015	0	%100
28	MP-1	Z	.006	.006	0	%100
29	MP-2	Z	.006	.006	0	%100
30	MP-3	Z	.006	.006	0	%100
31	MP-4	Z	.006	.006	0	%100
32	MP-5	Z	.006	.006	0	%100



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, %]
33	MP-6	Z	.006	.006	0 %100
34	MP-6B	Z	.005	.005	0 %100
35	MP-6C	Z	.004	.004	0 %100
36	MP-7	Z	.006	.006	0 %100
37	MP-8	Z	.006	.006	0 %100
38	MP-9	Z	.006	.006	0 %100
39	MP-10	Z	.006	.006	0 %100
40	MP-11	Z	.006	.006	0 %100
41	MP-12	Z	.006	.006	0 %100
42	SA-1	Z	.007	.007	0 %100
43	SA-2	Z	.009	.009	0 %100
44	SA-3	Z	.014	.014	0 %100
45	SF2-TH	Z	0	0	0 %100
46	SF3-TH	Z	.015	.015	0 %100
47	FF-HR	Z	.005	.005	0 %100
48	SF1-HR	Z	.005	.005	0 %100
49	SF2-HR	Z	0	0	0 %100
50	HRC-1	Z	.006	.006	0 %100
51	HRC-2	Z	0	0	0 %100
52	HRC-3	Z	.006	.006	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	FFTH	X	.017	.017	0 %100
2	MP-1	X	.009	.009	0 %100
3	MP-2	X	.008	.008	0 %100
4	MP-3	X	.009	.009	0 %100
5	MP-4	X	.008	.008	0 %100
6	MP-5	X	.009	.009	0 %100
7	MP-6	X	.009	.009	0 %100
8	MP-6B	X	.007	.007	0 %100
9	MP-6C	X	.005	.005	0 %100
10	MP-7	X	.009	.009	0 %100
11	MP-8	X	.008	.008	0 %100
12	MP-9	X	.009	.009	0 %100
13	MP-10	X	.008	.008	0 %100
14	MP-11	X	.009	.009	0 %100
15	MP-12	X	.008	.008	0 %100
16	SA-1	X	.006	.006	0 %100
17	SA-2	X	.01	.01	0 %100
18	SA-3	X	.023	.023	0 %100
19	SF2-TH	X	.006	.006	0 %100
20	SF3-TH	X	.021	.021	0 %100
21	FF-HR	X	.006	.006	0 %100
22	SF1-HR	X	.008	.008	0 %100
23	SF2-HR	X	.002	.002	0 %100
24	HRC-1	X	.009	.009	0 %100
25	HRC-2	X	.002	.002	0 %100
26	HRC-3	X	.007	.007	0 %100
27	FFTH	Z	.017	.017	0 %100
28	MP-1	Z	.009	.009	0 %100



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, %]
29	MP-2	Z	.008	.008	0 %100
30	MP-3	Z	.009	.009	0 %100
31	MP-4	Z	.008	.008	0 %100
32	MP-5	Z	.009	.009	0 %100
33	MP-6	Z	.009	.009	0 %100
34	MP-6B	Z	.007	.007	0 %100
35	MP-6C	Z	.005	.005	0 %100
36	MP-7	Z	.009	.009	0 %100
37	MP-8	Z	.008	.008	0 %100
38	MP-9	Z	.009	.009	0 %100
39	MP-10	Z	.008	.008	0 %100
40	MP-11	Z	.009	.009	0 %100
41	MP-12	Z	.008	.008	0 %100
42	SA-1	Z	.005	.005	0 %100
43	SA-2	Z	.017	.017	0 %100
44	SA-3	Z	.02	.02	0 %100
45	SF2-TH	Z	.006	.006	0 %100
46	SF3-TH	Z	.023	.023	0 %100
47	FF-HR	Z	.006	.006	0 %100
48	SF1-HR	Z	.008	.008	0 %100
49	SF2-HR	Z	.002	.002	0 %100
50	HRC-1	Z	.01	.01	0 %100
51	HRC-2	Z	.003	.003	0 %100
52	HRC-3	Z	.007	.007	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	FFTH	X	.009	.009	0 %100
2	MP-1	X	.006	.006	0 %100
3	MP-2	X	.006	.006	0 %100
4	MP-3	X	.006	.006	0 %100
5	MP-4	X	.006	.006	0 %100
6	MP-5	X	.006	.006	0 %100
7	MP-6	X	.006	.006	0 %100
8	MP-6B	X	.005	.005	0 %100
9	MP-6C	X	.004	.004	0 %100
10	MP-7	X	.006	.006	0 %100
11	MP-8	X	.006	.006	0 %100
12	MP-9	X	.006	.006	0 %100
13	MP-10	X	.006	.006	0 %100
14	MP-11	X	.006	.006	0 %100
15	MP-12	X	.006	.006	0 %100
16	SA-1	X	0	0	0 %100
17	SA-2	X	.009	.009	0 %100
18	SA-3	X	.015	.015	0 %100
19	SF2-TH	X	.008	.008	0 %100
20	SF3-TH	X	.016	.016	0 %100
21	FF-HR	X	.003	.003	0 %100
22	SF1-HR	X	.006	.006	0 %100
23	SF2-HR	X	.003	.003	0 %100
24	HRC-1	X	.007	.007	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.%]	
25	HRC-2	X	.003	.003	0	%100
26	HRC-3	X	.004	.004	0	%100
27	FFTH	Z	.015	.015	0	%100
28	MP-1	Z	.011	.011	0	%100
29	MP-2	Z	.01	.01	0	%100
30	MP-3	Z	.011	.011	0	%100
31	MP-4	Z	.01	.01	0	%100
32	MP-5	Z	.011	.011	0	%100
33	MP-6	Z	.011	.011	0	%100
34	MP-6B	Z	.008	.008	0	%100
35	MP-6C	Z	.007	.007	0	%100
36	MP-7	Z	.011	.011	0	%100
37	MP-8	Z	.01	.01	0	%100
38	MP-9	Z	.011	.011	0	%100
39	MP-10	Z	.01	.01	0	%100
40	MP-11	Z	.011	.011	0	%100
41	MP-12	Z	.01	.01	0	%100
42	SA-1	Z	0	0	0	%100
43	SA-2	Z	.026	.026	0	%100
44	SA-3	Z	.022	.022	0	%100
45	SF2-TH	Z	.015	.015	0	%100
46	SF3-TH	Z	.03	.03	0	%100
47	FF-HR	Z	.005	.005	0	%100
48	SF1-HR	Z	.011	.011	0	%100
49	SF2-HR	Z	.005	.005	0	%100
50	HRC-1	Z	.012	.012	0	%100
51	HRC-2	Z	.006	.006	0	%100
52	HRC-3	Z	.006	.006	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	FFTH	Z	0	0	0	%100
2	MP-1	Z	.012	.012	0	%100
3	MP-2	Z	.011	.011	0	%100
4	MP-3	Z	.012	.012	0	%100
5	MP-4	Z	.011	.011	0	%100
6	MP-5	Z	.012	.012	0	%100
7	MP-6	Z	.013	.013	0	%100
8	MP-6B	Z	.01	.01	0	%100
9	MP-6C	Z	.008	.008	0	%100
10	MP-7	Z	.012	.012	0	%100
11	MP-8	Z	.011	.011	0	%100
12	MP-9	Z	.012	.012	0	%100
13	MP-10	Z	.011	.011	0	%100
14	MP-11	Z	.012	.012	0	%100
15	MP-12	Z	.011	.011	0	%100
16	SA-1	Z	.014	.014	0	%100
17	SA-2	Z	.034	.034	0	%100
18	SA-3	Z	.014	.014	0	%100
19	SF2-TH	Z	.03	.03	0	%100
20	SF3-TH	Z	.03	.03	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.%]	
21	FF-HR	Z	0	0	0	%100
22	SF1-HR	Z	.011	.011	0	%100
23	SF2-HR	Z	.011	.011	0	%100
24	HRC-1	Z	.012	.012	0	%100
25	HRC-2	Z	.012	.012	0	%100
26	HRC-3	Z	0	0	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	FFTH	X	-.009	-.009	0	%100
2	MP-1	X	-.006	-.006	0	%100
3	MP-2	X	-.006	-.006	0	%100
4	MP-3	X	-.006	-.006	0	%100
5	MP-4	X	-.006	-.006	0	%100
6	MP-5	X	-.006	-.006	0	%100
7	MP-6	X	-.006	-.006	0	%100
8	MP-6B	X	-.005	-.005	0	%100
9	MP-6C	X	-.004	-.004	0	%100
10	MP-7	X	-.006	-.006	0	%100
11	MP-8	X	-.006	-.006	0	%100
12	MP-9	X	-.006	-.006	0	%100
13	MP-10	X	-.006	-.006	0	%100
14	MP-11	X	-.006	-.006	0	%100
15	MP-12	X	-.006	-.006	0	%100
16	SA-1	X	-.015	-.015	0	%100
17	SA-2	X	-.009	-.009	0	%100
18	SA-3	X	0	0	0	%100
19	SF2-TH	X	-.016	-.016	0	%100
20	SF3-TH	X	-.008	-.008	0	%100
21	FF-HR	X	-.003	-.003	0	%100
22	SF1-HR	X	-.003	-.003	0	%100
23	SF2-HR	X	-.006	-.006	0	%100
24	HRC-1	X	-.003	-.003	0	%100
25	HRC-2	X	-.007	-.007	0	%100
26	HRC-3	X	-.004	-.004	0	%100
27	FFTH	Z	.015	.015	0	%100
28	MP-1	Z	.011	.011	0	%100
29	MP-2	Z	.01	.01	0	%100
30	MP-3	Z	.011	.011	0	%100
31	MP-4	Z	.01	.01	0	%100
32	MP-5	Z	.011	.011	0	%100
33	MP-6	Z	.011	.011	0	%100
34	MP-6B	Z	.008	.008	0	%100
35	MP-6C	Z	.007	.007	0	%100
36	MP-7	Z	.011	.011	0	%100
37	MP-8	Z	.01	.01	0	%100
38	MP-9	Z	.011	.011	0	%100
39	MP-10	Z	.01	.01	0	%100
40	MP-11	Z	.011	.011	0	%100
41	MP-12	Z	.01	.01	0	%100
42	SA-1	Z	.022	.022	0	%100



Company : Tower Engineering Professionals, Inc.
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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, %]	
43	SA-2	Z	.026	.026	0	%100
44	SA-3	Z	0	0	0	%100
45	SF2-TH	Z	.03	.03	0	%100
46	SF3-TH	Z	.015	.015	0	%100
47	FF-HR	Z	.005	.005	0	%100
48	SF1-HR	Z	.005	.005	0	%100
49	SF2-HR	Z	.011	.011	0	%100
50	HRC-1	Z	.006	.006	0	%100
51	HRC-2	Z	.012	.012	0	%100
52	HRC-3	Z	.006	.006	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	FFTH	X	-.017	-.017	0	%100
2	MP-1	X	-.009	-.009	0	%100
3	MP-2	X	-.008	-.008	0	%100
4	MP-3	X	-.009	-.009	0	%100
5	MP-4	X	-.008	-.008	0	%100
6	MP-5	X	-.009	-.009	0	%100
7	MP-6	X	-.009	-.009	0	%100
8	MP-6B	X	-.007	-.007	0	%100
9	MP-6C	X	-.005	-.005	0	%100
10	MP-7	X	-.009	-.009	0	%100
11	MP-8	X	-.008	-.008	0	%100
12	MP-9	X	-.009	-.009	0	%100
13	MP-10	X	-.008	-.008	0	%100
14	MP-11	X	-.009	-.009	0	%100
15	MP-12	X	-.008	-.008	0	%100
16	SA-1	X	-.023	-.023	0	%100
17	SA-2	X	-.01	-.01	0	%100
18	SA-3	X	-.006	-.006	0	%100
19	SF2-TH	X	-.021	-.021	0	%100
20	SF3-TH	X	-.006	-.006	0	%100
21	FF-HR	X	-.006	-.006	0	%100
22	SF1-HR	X	-.002	-.002	0	%100
23	SF2-HR	X	-.008	-.008	0	%100
24	HRC-1	X	-.002	-.002	0	%100
25	HRC-2	X	-.009	-.009	0	%100
26	HRC-3	X	-.007	-.007	0	%100
27	FFTH	Z	.017	.017	0	%100
28	MP-1	Z	.009	.009	0	%100
29	MP-2	Z	.008	.008	0	%100
30	MP-3	Z	.009	.009	0	%100
31	MP-4	Z	.008	.008	0	%100
32	MP-5	Z	.009	.009	0	%100
33	MP-6	Z	.009	.009	0	%100
34	MP-6B	Z	.007	.007	0	%100
35	MP-6C	Z	.005	.005	0	%100
36	MP-7	Z	.009	.009	0	%100
37	MP-8	Z	.008	.008	0	%100
38	MP-9	Z	.009	.009	0	%100



Company : Tower Engineering Professionals, Inc.
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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, %]	
39	MP-10	Z	.008	.008	0	%100
40	MP-11	Z	.009	.009	0	%100
41	MP-12	Z	.008	.008	0	%100
42	SA-1	Z	.02	.02	0	%100
43	SA-2	Z	.017	.017	0	%100
44	SA-3	Z	.005	.005	0	%100
45	SF2-TH	Z	.023	.023	0	%100
46	SF3-TH	Z	.006	.006	0	%100
47	FF-HR	Z	.006	.006	0	%100
48	SF1-HR	Z	.002	.002	0	%100
49	SF2-HR	Z	.008	.008	0	%100
50	HRC-1	Z	.003	.003	0	%100
51	HRC-2	Z	.01	.01	0	%100
52	HRC-3	Z	.007	.007	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	FFTH	X	-.026	-.026	0	%100
2	MP-1	X	-.011	-.011	0	%100
3	MP-2	X	-.01	-.01	0	%100
4	MP-3	X	-.011	-.011	0	%100
5	MP-4	X	-.01	-.01	0	%100
6	MP-5	X	-.011	-.011	0	%100
7	MP-6	X	-.011	-.011	0	%100
8	MP-6B	X	-.008	-.008	0	%100
9	MP-6C	X	-.007	-.007	0	%100
10	MP-7	X	-.011	-.011	0	%100
11	MP-8	X	-.01	-.01	0	%100
12	MP-9	X	-.011	-.011	0	%100
13	MP-10	X	-.01	-.01	0	%100
14	MP-11	X	-.011	-.011	0	%100
15	MP-12	X	-.01	-.01	0	%100
16	SA-1	X	-.03	-.03	0	%100
17	SA-2	X	-.009	-.009	0	%100
18	SA-3	X	-.015	-.015	0	%100
19	SF2-TH	X	-.024	-.024	0	%100
20	SF3-TH	X	0	0	0	%100
21	FF-HR	X	-.009	-.009	0	%100
22	SF1-HR	X	0	0	0	%100
23	SF2-HR	X	-.009	-.009	0	%100
24	HRC-1	X	0	0	0	%100
25	HRC-2	X	-.01	-.01	0	%100
26	HRC-3	X	-.011	-.011	0	%100
27	FFTH	Z	.015	.015	0	%100
28	MP-1	Z	.006	.006	0	%100
29	MP-2	Z	.006	.006	0	%100
30	MP-3	Z	.006	.006	0	%100
31	MP-4	Z	.006	.006	0	%100
32	MP-5	Z	.006	.006	0	%100
33	MP-6	Z	.006	.006	0	%100
34	MP-6B	Z	.005	.005	0	%100



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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, %]	
35	MP-6C	Z	.004	.004	0	%100
36	MP-7	Z	.006	.006	0	%100
37	MP-8	Z	.006	.006	0	%100
38	MP-9	Z	.006	.006	0	%100
39	MP-10	Z	.006	.006	0	%100
40	MP-11	Z	.006	.006	0	%100
41	MP-12	Z	.006	.006	0	%100
42	SA-1	Z	.014	.014	0	%100
43	SA-2	Z	.009	.009	0	%100
44	SA-3	Z	.007	.007	0	%100
45	SF2-TH	Z	.015	.015	0	%100
46	SF3-TH	Z	0	0	0	%100
47	FF-HR	Z	.005	.005	0	%100
48	SF1-HR	Z	0	0	0	%100
49	SF2-HR	Z	.005	.005	0	%100
50	HRC-1	Z	0	0	0	%100
51	HRC-2	Z	.006	.006	0	%100
52	HRC-3	Z	.006	.006	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	FFTH	Y	-.011	-.011	0	%100
2	MP-1	Y	-.009	-.009	0	%100
3	MP-2	Y	-.009	-.009	0	%100
4	MP-3	Y	-.009	-.009	0	%100
5	MP-4	Y	-.009	-.009	0	%100
6	MP-5	Y	-.009	-.009	0	%100
7	MP-6	Y	-.01	-.01	0	%100
8	MP-6B	Y	-.008	-.008	0	%100
9	MP-6C	Y	-.008	-.008	0	%100
10	MP-7	Y	-.009	-.009	0	%100
11	MP-8	Y	-.009	-.009	0	%100
12	MP-9	Y	-.009	-.009	0	%100
13	MP-10	Y	-.009	-.009	0	%100
14	MP-11	Y	-.009	-.009	0	%100
15	MP-12	Y	-.009	-.009	0	%100
16	SA-1	Y	-.011	-.011	0	%100
17	SA-2	Y	-.011	-.011	0	%100
18	SA-3	Y	-.011	-.011	0	%100
19	SF2-TH	Y	-.011	-.011	0	%100
20	SF3-TH	Y	-.011	-.011	0	%100
21	FF-HR	Y	-.009	-.009	0	%100
22	SF1-HR	Y	-.009	-.009	0	%100
23	SF2-HR	Y	-.009	-.009	0	%100
24	HRC-1	Y	-.008	-.008	0	%100
25	HRC-2	Y	-.008	-.008	0	%100
26	HRC-3	Y	-.008	-.008	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	FFTH	X	-.008	-.008	0	%100



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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, %]	
2	MP-1	X	-.003	-.003	0	%100
3	MP-2	X	-.003	-.003	0	%100
4	MP-3	X	-.003	-.003	0	%100
5	MP-4	X	-.003	-.003	0	%100
6	MP-5	X	-.003	-.003	0	%100
7	MP-6	X	-.003	-.003	0	%100
8	MP-6B	X	-.003	-.003	0	%100
9	MP-6C	X	-.002	-.002	0	%100
10	MP-7	X	-.003	-.003	0	%100
11	MP-8	X	-.003	-.003	0	%100
12	MP-9	X	-.003	-.003	0	%100
13	MP-10	X	-.003	-.003	0	%100
14	MP-11	X	-.003	-.003	0	%100
15	MP-12	X	-.003	-.003	0	%100
16	SA-1	X	-.007	-.007	0	%100
17	SA-2	X	-.005	-.005	0	%100
18	SA-3	X	-.007	-.007	0	%100
19	SF2-TH	X	-.007	-.007	0	%100
20	SF3-TH	X	-.007	-.007	0	%100
21	FF-HR	X	-.004	-.004	0	%100
22	SF1-HR	X	-.003	-.003	0	%100
23	SF2-HR	X	-.003	-.003	0	%100
24	HRC-1	X	-.005	-.005	0	%100
25	HRC-2	X	-.005	-.005	0	%100
26	HRC-3	X	-.005	-.005	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	FFTH	X	-.006	-.006	0	%100
2	MP-1	X	-.003	-.003	0	%100
3	MP-2	X	-.002	-.002	0	%100
4	MP-3	X	-.003	-.003	0	%100
5	MP-4	X	-.002	-.002	0	%100
6	MP-5	X	-.003	-.003	0	%100
7	MP-6	X	-.003	-.003	0	%100
8	MP-6B	X	-.002	-.002	0	%100
9	MP-6C	X	-.002	-.002	0	%100
10	MP-7	X	-.003	-.003	0	%100
11	MP-8	X	-.002	-.002	0	%100
12	MP-9	X	-.003	-.003	0	%100
13	MP-10	X	-.002	-.002	0	%100
14	MP-11	X	-.003	-.003	0	%100
15	MP-12	X	-.002	-.002	0	%100
16	SA-1	X	-.003	-.003	0	%100
17	SA-2	X	-.002	-.002	0	%100
18	SA-3	X	-.006	-.006	0	%100
19	SF2-TH	X	0	0	0	%100
20	SF3-TH	X	-.005	-.005	0	%100
21	FF-HR	X	-.003	-.003	0	%100
22	SF1-HR	X	-.002	-.002	0	%100
23	SF2-HR	X	0	0	0	%100



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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,%)	
24	HRC-1	X	-0.04	-0.04	0	%100
25	HRC-2	X	0	0	0	%100
26	HRC-3	X	-0.04	-0.04	0	%100
27	FFTH	Z	-0.003	-0.003	0	%100
28	MP-1	Z	-0.002	-0.002	0	%100
29	MP-2	Z	-0.002	-0.002	0	%100
30	MP-3	Z	-0.002	-0.002	0	%100
31	MP-4	Z	-0.002	-0.002	0	%100
32	MP-5	Z	-0.002	-0.002	0	%100
33	MP-6	Z	-0.002	-0.002	0	%100
34	MP-6B	Z	-0.001	-0.001	0	%100
35	MP-6C	Z	-0.001	-0.001	0	%100
36	MP-7	Z	-0.002	-0.002	0	%100
37	MP-8	Z	-0.002	-0.002	0	%100
38	MP-9	Z	-0.002	-0.002	0	%100
39	MP-10	Z	-0.002	-0.002	0	%100
40	MP-11	Z	-0.002	-0.002	0	%100
41	MP-12	Z	-0.002	-0.002	0	%100
42	SA-1	Z	-0.002	-0.002	0	%100
43	SA-2	Z	-0.002	-0.002	0	%100
44	SA-3	Z	-0.003	-0.003	0	%100
45	SF2-TH	Z	0	0	0	%100
46	SF3-TH	Z	-0.003	-0.003	0	%100
47	FF-HR	Z	-0.002	-0.002	0	%100
48	SF1-HR	Z	-0.002	-0.002	0	%100
49	SF2-HR	Z	0	0	0	%100
50	HRC-1	Z	-0.002	-0.002	0	%100
51	HRC-2	Z	0	0	0	%100
52	HRC-3	Z	-0.002	-0.002	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	FFTH	X	-0.004	-0.004	0	%100
2	MP-1	X	-0.002	-0.002	0	%100
3	MP-2	X	-0.002	-0.002	0	%100
4	MP-3	X	-0.002	-0.002	0	%100
5	MP-4	X	-0.002	-0.002	0	%100
6	MP-5	X	-0.002	-0.002	0	%100
7	MP-6	X	-0.002	-0.002	0	%100
8	MP-6B	X	-0.002	-0.002	0	%100
9	MP-6C	X	-0.002	-0.002	0	%100
10	MP-7	X	-0.002	-0.002	0	%100
11	MP-8	X	-0.002	-0.002	0	%100
12	MP-9	X	-0.002	-0.002	0	%100
13	MP-10	X	-0.002	-0.002	0	%100
14	MP-11	X	-0.002	-0.002	0	%100
15	MP-12	X	-0.002	-0.002	0	%100
16	SA-1	X	-0.001	-0.001	0	%100
17	SA-2	X	-0.003	-0.003	0	%100
18	SA-3	X	-0.005	-0.005	0	%100
19	SF2-TH	X	-0.001	-0.001	0	%100



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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,%)	
20	SF3-TH	X	-0.005	-0.005	0	%100
21	FF-HR	X	-0.002	-0.002	0	%100
22	SF1-HR	X	-0.002	-0.002	0	%100
23	SF2-HR	X	-0.000601	-0.000601	0	%100
24	HRC-1	X	-0.003	-0.003	0	%100
25	HRC-2	X	-0.000932	-0.000932	0	%100
26	HRC-3	X	-0.003	-0.003	0	%100
27	FFTH	Z	-0.004	-0.004	0	%100
28	MP-1	Z	-0.002	-0.002	0	%100
29	MP-2	Z	-0.002	-0.002	0	%100
30	MP-3	Z	-0.002	-0.002	0	%100
31	MP-4	Z	-0.002	-0.002	0	%100
32	MP-5	Z	-0.002	-0.002	0	%100
33	MP-6	Z	-0.003	-0.003	0	%100
34	MP-6B	Z	-0.002	-0.002	0	%100
35	MP-6C	Z	-0.002	-0.002	0	%100
36	MP-7	Z	-0.002	-0.002	0	%100
37	MP-8	Z	-0.002	-0.002	0	%100
38	MP-9	Z	-0.002	-0.002	0	%100
39	MP-10	Z	-0.002	-0.002	0	%100
40	MP-11	Z	-0.002	-0.002	0	%100
41	MP-12	Z	-0.002	-0.002	0	%100
42	SA-1	Z	-0.001	-0.001	0	%100
43	SA-2	Z	-0.004	-0.004	0	%100
44	SA-3	Z	-0.004	-0.004	0	%100
45	SF2-TH	Z	-0.001	-0.001	0	%100
46	SF3-TH	Z	-0.005	-0.005	0	%100
47	FF-HR	Z	-0.002	-0.002	0	%100
48	SF1-HR	Z	-0.003	-0.003	0	%100
49	SF2-HR	Z	-0.000735	-0.000735	0	%100
50	HRC-1	Z	-0.004	-0.004	0	%100
51	HRC-2	Z	-0.000942	-0.000942	0	%100
52	HRC-3	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	FFTH	X	-0.002	-0.002	0	%100
2	MP-1	X	-0.001	-0.001	0	%100
3	MP-2	X	-0.001	-0.001	0	%100
4	MP-3	X	-0.001	-0.001	0	%100
5	MP-4	X	-0.001	-0.001	0	%100
6	MP-5	X	-0.001	-0.001	0	%100
7	MP-6	X	-0.002	-0.002	0	%100
8	MP-6B	X	-0.001	-0.001	0	%100
9	MP-6C	X	-0.001	-0.001	0	%100
10	MP-7	X	-0.001	-0.001	0	%100
11	MP-8	X	-0.001	-0.001	0	%100
12	MP-9	X	-0.001	-0.001	0	%100
13	MP-10	X	-0.001	-0.001	0	%100
14	MP-11	X	-0.001	-0.001	0	%100
15	MP-12	X	-0.001	-0.001	0	%100



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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,%)	
16	SA-1	X	0	0	%100	
17	SA-2	X	-0.002	-0.002	0	%100
18	SA-3	X	-0.003	-0.003	0	%100
19	SF2-TH	X	-0.002	-0.002	0	%100
20	SF3-TH	X	-0.003	-0.003	0	%100
21	FF-HR	X	-0.001	-0.001	0	%100
22	SF1-HR	X	-0.002	-0.002	0	%100
23	SF2-HR	X	-0.000821	-0.000821	0	%100
24	HRC-1	X	-0.003	-0.003	0	%100
25	HRC-2	X	-0.001	-0.001	0	%100
26	HRC-3	X	-0.001	-0.001	0	%100
27	FFTH	Z	-0.003	-0.003	0	%100
28	MP-1	Z	-0.003	-0.003	0	%100
29	MP-2	Z	-0.003	-0.003	0	%100
30	MP-3	Z	-0.003	-0.003	0	%100
31	MP-4	Z	-0.003	-0.003	0	%100
32	MP-5	Z	-0.003	-0.003	0	%100
33	MP-6	Z	-0.003	-0.003	0	%100
34	MP-6B	Z	-0.003	-0.003	0	%100
35	MP-6C	Z	-0.002	-0.002	0	%100
36	MP-7	Z	-0.003	-0.003	0	%100
37	MP-8	Z	-0.003	-0.003	0	%100
38	MP-9	Z	-0.003	-0.003	0	%100
39	MP-10	Z	-0.003	-0.003	0	%100
40	MP-11	Z	-0.003	-0.003	0	%100
41	MP-12	Z	-0.003	-0.003	0	%100
42	SA-1	Z	0	0	0	%100
43	SA-2	Z	-0.006	-0.006	0	%100
44	SA-3	Z	-0.005	-0.005	0	%100
45	SF2-TH	Z	-0.003	-0.003	0	%100
46	SF3-TH	Z	-0.007	-0.007	0	%100
47	FF-HR	Z	-0.002	-0.002	0	%100
48	SF1-HR	Z	-0.003	-0.003	0	%100
49	SF2-HR	Z	-0.002	-0.002	0	%100
50	HRC-1	Z	-0.004	-0.004	0	%100
51	HRC-2	Z	-0.002	-0.002	0	%100
52	HRC-3	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	FFTH	Z	0	0	%100	
2	MP-1	Z	-0.003	-0.003	0	%100
3	MP-2	Z	-0.003	-0.003	0	%100
4	MP-3	Z	-0.003	-0.003	0	%100
5	MP-4	Z	-0.003	-0.003	0	%100
6	MP-5	Z	-0.003	-0.003	0	%100
7	MP-6	Z	-0.004	-0.004	0	%100
8	MP-6B	Z	-0.003	-0.003	0	%100
9	MP-6C	Z	-0.003	-0.003	0	%100
10	MP-7	Z	-0.003	-0.003	0	%100
11	MP-8	Z	-0.003	-0.003	0	%100



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

Member Label	Direction	Start Magnitude(k/ft,...	End Magnitude(k/ft,F...	Start Location(ft,%)	End Location(ft,%)	
12	MP-9	Z	-0.003	-0.003	0	%100
13	MP-10	Z	-0.003	-0.003	0	%100
14	MP-11	Z	-0.003	-0.003	0	%100
15	MP-12	Z	-0.003	-0.003	0	%100
16	SA-1	Z	-0.003	-0.003	0	%100
17	SA-2	Z	-0.008	-0.008	0	%100
18	SA-3	Z	-0.003	-0.003	0	%100
19	SF2-TH	Z	-0.007	-0.007	0	%100
20	SF3-TH	Z	-0.007	-0.007	0	%100
21	FF-HR	Z	0	0	0	%100
22	SF1-HR	Z	-0.003	-0.003	0	%100
23	SF2-HR	Z	-0.003	-0.003	0	%100
24	HRC-1	Z	-0.004	-0.004	0	%100
25	HRC-2	Z	-0.004	-0.004	0	%100
26	HRC-3	Z	0	0	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	FFTH	X	.002	.002	0	%100
2	MP-1	X	.001	.001	0	%100
3	MP-2	X	.001	.001	0	%100
4	MP-3	X	.001	.001	0	%100
5	MP-4	X	.001	.001	0	%100
6	MP-5	X	.001	.001	0	%100
7	MP-6	X	.002	.002	0	%100
8	MP-6B	X	.001	.001	0	%100
9	MP-6C	X	.001	.001	0	%100
10	MP-7	X	.001	.001	0	%100
11	MP-8	X	.001	.001	0	%100
12	MP-9	X	.001	.001	0	%100
13	MP-10	X	.001	.001	0	%100
14	MP-11	X	.001	.001	0	%100
15	MP-12	X	.001	.001	0	%100
16	SA-1	X	.003	.003	0	%100
17	SA-2	X	.002	.002	0	%100
18	SA-3	X	0	0	0	%100
19	SF2-TH	X	.003	.003	0	%100
20	SF3-TH	X	.002	.002	0	%100
21	FF-HR	X	.001	.001	0	%100
22	SF1-HR	X	.000821	.000821	0	%100
23	SF2-HR	X	.002	.002	0	%100
24	HRC-1	X	.001	.001	0	%100
25	HRC-2	X	.003	.003	0	%100
26	HRC-3	X	.001	.001	0	%100
27	FFTH	Z	-0.003	-0.003	0	%100
28	MP-1	Z	-0.003	-0.003	0	%100
29	MP-2	Z	-0.003	-0.003	0	%100
30	MP-3	Z	-0.003	-0.003	0	%100
31	MP-4	Z	-0.003	-0.003	0	%100
32	MP-5	Z	-0.003	-0.003	0	%100
33	MP-6	Z	-0.003	-0.003	0	%100



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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.%]	
34	MP-6B	Z	-0.003	-0.003	0	%100
35	MP-6C	Z	-0.002	-0.002	0	%100
36	MP-7	Z	-0.003	-0.003	0	%100
37	MP-8	Z	-0.003	-0.003	0	%100
38	MP-9	Z	-0.003	-0.003	0	%100
39	MP-10	Z	-0.003	-0.003	0	%100
40	MP-11	Z	-0.003	-0.003	0	%100
41	MP-12	Z	-0.003	-0.003	0	%100
42	SA-1	Z	-0.005	-0.005	0	%100
43	SA-2	Z	-0.006	-0.006	0	%100
44	SA-3	Z	0	0	0	%100
45	SF2-TH	Z	-0.007	-0.007	0	%100
46	SF3-TH	Z	-0.003	-0.003	0	%100
47	FF-HR	Z	-0.002	-0.002	0	%100
48	SF1-HR	Z	-0.002	-0.002	0	%100
49	SF2-HR	Z	-0.003	-0.003	0	%100
50	HRC-1	Z	-0.002	-0.002	0	%100
51	HRC-2	Z	-0.004	-0.004	0	%100
52	HRC-3	Z	-0.002	-0.002	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	FFTH	X	.004	.004	0	%100
2	MP-1	X	.002	.002	0	%100
3	MP-2	X	.002	.002	0	%100
4	MP-3	X	.002	.002	0	%100
5	MP-4	X	.002	.002	0	%100
6	MP-5	X	.002	.002	0	%100
7	MP-6	X	.002	.002	0	%100
8	MP-6B	X	.002	.002	0	%100
9	MP-6C	X	.002	.002	0	%100
10	MP-7	X	.002	.002	0	%100
11	MP-8	X	.002	.002	0	%100
12	MP-9	X	.002	.002	0	%100
13	MP-10	X	.002	.002	0	%100
14	MP-11	X	.002	.002	0	%100
15	MP-12	X	.002	.002	0	%100
16	SA-1	X	.005	.005	0	%100
17	SA-2	X	.003	.003	0	%100
18	SA-3	X	.001	.001	0	%100
19	SF2-TH	X	.005	.005	0	%100
20	SF3-TH	X	.001	.001	0	%100
21	FF-HR	X	.002	.002	0	%100
22	SF1-HR	X	.000601	.000601	0	%100
23	SF2-HR	X	.002	.002	0	%100
24	HRC-1	X	.000932	.000932	0	%100
25	HRC-2	X	.003	.003	0	%100
26	HRC-3	X	.003	.003	0	%100
27	FFTH	Z	-0.004	-0.004	0	%100
28	MP-1	Z	-0.002	-0.002	0	%100
29	MP-2	Z	-0.002	-0.002	0	%100



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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.%]	
30	MP-3	Z	-0.002	-0.002	0	%100
31	MP-4	Z	-0.002	-0.002	0	%100
32	MP-5	Z	-0.002	-0.002	0	%100
33	MP-6	Z	-0.003	-0.003	0	%100
34	MP-6B	Z	-0.002	-0.002	0	%100
35	MP-6C	Z	-0.002	-0.002	0	%100
36	MP-7	Z	-0.002	-0.002	0	%100
37	MP-8	Z	-0.002	-0.002	0	%100
38	MP-9	Z	-0.002	-0.002	0	%100
39	MP-10	Z	-0.002	-0.002	0	%100
40	MP-11	Z	-0.002	-0.002	0	%100
41	MP-12	Z	-0.002	-0.002	0	%100
42	SA-1	Z	-0.004	-0.004	0	%100
43	SA-2	Z	-0.004	-0.004	0	%100
44	SA-3	Z	-0.001	-0.001	0	%100
45	SF2-TH	Z	-0.005	-0.005	0	%100
46	SF3-TH	Z	-0.001	-0.001	0	%100
47	FF-HR	Z	-0.002	-0.002	0	%100
48	SF1-HR	Z	-0.000735	-0.000735	0	%100
49	SF2-HR	Z	-0.003	-0.003	0	%100
50	HRC-1	Z	-0.000942	-0.000942	0	%100
51	HRC-2	Z	-0.004	-0.004	0	%100
52	HRC-3	Z	-0.002	-0.002	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	FFTH	X	.006	.006	0	%100
2	MP-1	X	.003	.003	0	%100
3	MP-2	X	.002	.002	0	%100
4	MP-3	X	.003	.003	0	%100
5	MP-4	X	.002	.002	0	%100
6	MP-5	X	.003	.003	0	%100
7	MP-6	X	.003	.003	0	%100
8	MP-6B	X	.002	.002	0	%100
9	MP-6C	X	.002	.002	0	%100
10	MP-7	X	.003	.003	0	%100
11	MP-8	X	.002	.002	0	%100
12	MP-9	X	.003	.003	0	%100
13	MP-10	X	.002	.002	0	%100
14	MP-11	X	.003	.003	0	%100
15	MP-12	X	.002	.002	0	%100
16	SA-1	X	.006	.006	0	%100
17	SA-2	X	.002	.002	0	%100
18	SA-3	X	.003	.003	0	%100
19	SF2-TH	X	.005	.005	0	%100
20	SF3-TH	X	0	0	0	%100
21	FF-HR	X	.003	.003	0	%100
22	SF1-HR	X	0	0	0	%100
23	SF2-HR	X	.002	.002	0	%100
24	HRC-1	X	0	0	0	%100
25	HRC-2	X	.004	.004	0	%100



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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.%]	
26	HRC-3	X	.004	.004	0	%100
27	FFTH	Z	-.003	-.003	0	%100
28	MP-1	Z	-.002	-.002	0	%100
29	MP-2	Z	-.002	-.002	0	%100
30	MP-3	Z	-.002	-.002	0	%100
31	MP-4	Z	-.002	-.002	0	%100
32	MP-5	Z	-.002	-.002	0	%100
33	MP-6	Z	-.002	-.002	0	%100
34	MP-6B	Z	-.001	-.001	0	%100
35	MP-6C	Z	-.001	-.001	0	%100
36	MP-7	Z	-.002	-.002	0	%100
37	MP-8	Z	-.002	-.002	0	%100
38	MP-9	Z	-.002	-.002	0	%100
39	MP-10	Z	-.002	-.002	0	%100
40	MP-11	Z	-.002	-.002	0	%100
41	MP-12	Z	-.002	-.002	0	%100
42	SA-1	Z	-.003	-.003	0	%100
43	SA-2	Z	-.002	-.002	0	%100
44	SA-3	Z	-.002	-.002	0	%100
45	SF2-TH	Z	-.003	-.003	0	%100
46	SF3-TH	Z	0	0	0	%100
47	FF-HR	Z	-.002	-.002	0	%100
48	SF1-HR	Z	0	0	0	%100
49	SF2-HR	Z	-.002	-.002	0	%100
50	HRC-1	Z	0	0	0	%100
51	HRC-2	Z	-.002	-.002	0	%100
52	HRC-3	Z	-.002	-.002	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	FFTH	X	.008	.008	0	%100
2	MP-1	X	.003	.003	0	%100
3	MP-2	X	.003	.003	0	%100
4	MP-3	X	.003	.003	0	%100
5	MP-4	X	.003	.003	0	%100
6	MP-5	X	.003	.003	0	%100
7	MP-6	X	.003	.003	0	%100
8	MP-6B	X	.003	.003	0	%100
9	MP-6C	X	.002	.002	0	%100
10	MP-7	X	.003	.003	0	%100
11	MP-8	X	.003	.003	0	%100
12	MP-9	X	.003	.003	0	%100
13	MP-10	X	.003	.003	0	%100
14	MP-11	X	.003	.003	0	%100
15	MP-12	X	.003	.003	0	%100
16	SA-1	X	.007	.007	0	%100
17	SA-2	X	.005	.005	0	%100
18	SA-3	X	.007	.007	0	%100
19	SF2-TH	X	.007	.007	0	%100
20	SF3-TH	X	.007	.007	0	%100
21	FF-HR	X	.004	.004	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.%]	
22	SF1-HR	X	.003	.003	0	%100
23	SF2-HR	X	.003	.003	0	%100
24	HRC-1	X	.005	.005	0	%100
25	HRC-2	X	.005	.005	0	%100
26	HRC-3	X	.005	.005	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	FFTH	X	.006	.006	0	%100
2	MP-1	X	.003	.003	0	%100
3	MP-2	X	.002	.002	0	%100
4	MP-3	X	.003	.003	0	%100
5	MP-4	X	.002	.002	0	%100
6	MP-5	X	.003	.003	0	%100
7	MP-6	X	.003	.003	0	%100
8	MP-6B	X	.002	.002	0	%100
9	MP-6C	X	.002	.002	0	%100
10	MP-7	X	.003	.003	0	%100
11	MP-8	X	.002	.002	0	%100
12	MP-9	X	.003	.003	0	%100
13	MP-10	X	.002	.002	0	%100
14	MP-11	X	.003	.003	0	%100
15	MP-12	X	.002	.002	0	%100
16	SA-1	X	.003	.003	0	%100
17	SA-2	X	.002	.002	0	%100
18	SA-3	X	.006	.006	0	%100
19	SF2-TH	X	0	0	0	%100
20	SF3-TH	X	.005	.005	0	%100
21	FF-HR	X	.003	.003	0	%100
22	SF1-HR	X	.002	.002	0	%100
23	SF2-HR	X	0	0	0	%100
24	HRC-1	X	.004	.004	0	%100
25	HRC-2	X	0	0	0	%100
26	HRC-3	X	.004	.004	0	%100
27	FFTH	Z	.003	.003	0	%100
28	MP-1	Z	.002	.002	0	%100
29	MP-2	Z	.002	.002	0	%100
30	MP-3	Z	.002	.002	0	%100
31	MP-4	Z	.002	.002	0	%100
32	MP-5	Z	.002	.002	0	%100
33	MP-6	Z	.002	.002	0	%100
34	MP-6B	Z	.001	.001	0	%100
35	MP-6C	Z	.001	.001	0	%100
36	MP-7	Z	.002	.002	0	%100
37	MP-8	Z	.002	.002	0	%100
38	MP-9	Z	.002	.002	0	%100
39	MP-10	Z	.002	.002	0	%100
40	MP-11	Z	.002	.002	0	%100
41	MP-12	Z	.002	.002	0	%100
42	SA-1	Z	.002	.002	0	%100
43	SA-2	Z	.002	.002	0	%100



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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.%]	
44	SA-3	Z	.003	.003	0	%100
45	SF2-TH	Z	0	0	0	%100
46	SF3-TH	Z	.003	.003	0	%100
47	FF-HR	Z	.002	.002	0	%100
48	SF1-HR	Z	.002	.002	0	%100
49	SF2-HR	Z	0	0	0	%100
50	HRC-1	Z	.002	.002	0	%100
51	HRC-2	Z	0	0	0	%100
52	HRC-3	Z	.002	.002	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	FFTH	X	.004	.004	0	%100
2	MP-1	X	.002	.002	0	%100
3	MP-2	X	.002	.002	0	%100
4	MP-3	X	.002	.002	0	%100
5	MP-4	X	.002	.002	0	%100
6	MP-5	X	.002	.002	0	%100
7	MP-6	X	.002	.002	0	%100
8	MP-6B	X	.002	.002	0	%100
9	MP-6C	X	.002	.002	0	%100
10	MP-7	X	.002	.002	0	%100
11	MP-8	X	.002	.002	0	%100
12	MP-9	X	.002	.002	0	%100
13	MP-10	X	.002	.002	0	%100
14	MP-11	X	.002	.002	0	%100
15	MP-12	X	.002	.002	0	%100
16	SA-1	X	.001	.001	0	%100
17	SA-2	X	.003	.003	0	%100
18	SA-3	X	.005	.005	0	%100
19	SF2-TH	X	.001	.001	0	%100
20	SF3-TH	X	.005	.005	0	%100
21	FF-HR	X	.002	.002	0	%100
22	SF1-HR	X	.002	.002	0	%100
23	SF2-HR	X	.000601	.000601	0	%100
24	HRC-1	X	.003	.003	0	%100
25	HRC-2	X	.000932	.000932	0	%100
26	HRC-3	X	.003	.003	0	%100
27	FFTH	Z	.004	.004	0	%100
28	MP-1	Z	.002	.002	0	%100
29	MP-2	Z	.002	.002	0	%100
30	MP-3	Z	.002	.002	0	%100
31	MP-4	Z	.002	.002	0	%100
32	MP-5	Z	.002	.002	0	%100
33	MP-6	Z	.003	.003	0	%100
34	MP-6B	Z	.002	.002	0	%100
35	MP-6C	Z	.002	.002	0	%100
36	MP-7	Z	.002	.002	0	%100
37	MP-8	Z	.002	.002	0	%100
38	MP-9	Z	.002	.002	0	%100
39	MP-10	Z	.002	.002	0	%100



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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.%]	
40	MP-11	Z	.002	.002	0	%100
41	MP-12	Z	.002	.002	0	%100
42	SA-1	Z	.001	.001	0	%100
43	SA-2	Z	.004	.004	0	%100
44	SA-3	Z	.004	.004	0	%100
45	SF2-TH	Z	.001	.001	0	%100
46	SF3-TH	Z	.005	.005	0	%100
47	FF-HR	Z	.002	.002	0	%100
48	SF1-HR	Z	.003	.003	0	%100
49	SF2-HR	Z	.000735	.000735	0	%100
50	HRC-1	Z	.004	.004	0	%100
51	HRC-2	Z	.000942	.000942	0	%100
52	HRC-3	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	FFTH	X	.002	.002	0	%100
2	MP-1	X	.001	.001	0	%100
3	MP-2	X	.001	.001	0	%100
4	MP-3	X	.001	.001	0	%100
5	MP-4	X	.001	.001	0	%100
6	MP-5	X	.001	.001	0	%100
7	MP-6	X	.002	.002	0	%100
8	MP-6B	X	.001	.001	0	%100
9	MP-6C	X	.001	.001	0	%100
10	MP-7	X	.001	.001	0	%100
11	MP-8	X	.001	.001	0	%100
12	MP-9	X	.001	.001	0	%100
13	MP-10	X	.001	.001	0	%100
14	MP-11	X	.001	.001	0	%100
15	MP-12	X	.001	.001	0	%100
16	SA-1	X	0	0	0	%100
17	SA-2	X	.002	.002	0	%100
18	SA-3	X	.003	.003	0	%100
19	SF2-TH	X	.002	.002	0	%100
20	SF3-TH	X	.003	.003	0	%100
21	FF-HR	X	.001	.001	0	%100
22	SF1-HR	X	.002	.002	0	%100
23	SF2-HR	X	.000821	.000821	0	%100
24	HRC-1	X	.003	.003	0	%100
25	HRC-2	X	.001	.001	0	%100
26	HRC-3	X	.001	.001	0	%100
27	FFTH	Z	.003	.003	0	%100
28	MP-1	Z	.003	.003	0	%100
29	MP-2	Z	.003	.003	0	%100
30	MP-3	Z	.003	.003	0	%100
31	MP-4	Z	.003	.003	0	%100
32	MP-5	Z	.003	.003	0	%100
33	MP-6	Z	.003	.003	0	%100
34	MP-6B	Z	.003	.003	0	%100
35	MP-6C	Z	.002	.002	0	%100



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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,%)	
36	MP-7	Z	.003	.003	0	%100
37	MP-8	Z	.003	.003	0	%100
38	MP-9	Z	.003	.003	0	%100
39	MP-10	Z	.003	.003	0	%100
40	MP-11	Z	.003	.003	0	%100
41	MP-12	Z	.003	.003	0	%100
42	SA-1	Z	0	0	0	%100
43	SA-2	Z	.006	.006	0	%100
44	SA-3	Z	.005	.005	0	%100
45	SF2-TH	Z	.003	.003	0	%100
46	SF3-TH	Z	.007	.007	0	%100
47	FF-HR	Z	.002	.002	0	%100
48	SF1-HR	Z	.003	.003	0	%100
49	SF2-HR	Z	.002	.002	0	%100
50	HRC-1	Z	.004	.004	0	%100
51	HRC-2	Z	.002	.002	0	%100
52	HRC-3	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	FFTH	Z	0	0	0	%100
2	MP-1	Z	.003	.003	0	%100
3	MP-2	Z	.003	.003	0	%100
4	MP-3	Z	.003	.003	0	%100
5	MP-4	Z	.003	.003	0	%100
6	MP-5	Z	.003	.003	0	%100
7	MP-6	Z	.004	.004	0	%100
8	MP-6B	Z	.003	.003	0	%100
9	MP-6C	Z	.003	.003	0	%100
10	MP-7	Z	.003	.003	0	%100
11	MP-8	Z	.003	.003	0	%100
12	MP-9	Z	.003	.003	0	%100
13	MP-10	Z	.003	.003	0	%100
14	MP-11	Z	.003	.003	0	%100
15	MP-12	Z	.003	.003	0	%100
16	SA-1	Z	.003	.003	0	%100
17	SA-2	Z	.008	.008	0	%100
18	SA-3	Z	.003	.003	0	%100
19	SF2-TH	Z	.007	.007	0	%100
20	SF3-TH	Z	.007	.007	0	%100
21	FF-HR	Z	0	0	0	%100
22	SF1-HR	Z	.003	.003	0	%100
23	SF2-HR	Z	.003	.003	0	%100
24	HRC-1	Z	.004	.004	0	%100
25	HRC-2	Z	.004	.004	0	%100
26	HRC-3	Z	0	0	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,%)	
1	FFTH	X	-.002	-.002	0	%100
2	MP-1	X	-.001	-.001	0	%100



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 Designer : DJM
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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,%)	
3	MP-2	X	-.001	-.001	0	%100
4	MP-3	X	-.001	-.001	0	%100
5	MP-4	X	-.001	-.001	0	%100
6	MP-5	X	-.001	-.001	0	%100
7	MP-6	X	-.002	-.002	0	%100
8	MP-6B	X	-.001	-.001	0	%100
9	MP-6C	X	-.001	-.001	0	%100
10	MP-7	X	-.001	-.001	0	%100
11	MP-8	X	-.001	-.001	0	%100
12	MP-9	X	-.001	-.001	0	%100
13	MP-10	X	-.001	-.001	0	%100
14	MP-11	X	-.001	-.001	0	%100
15	MP-12	X	-.001	-.001	0	%100
16	SA-1	X	-.003	-.003	0	%100
17	SA-2	X	-.002	-.002	0	%100
18	SA-3	X	0	0	0	%100
19	SF2-TH	X	-.003	-.003	0	%100
20	SF3-TH	X	-.002	-.002	0	%100
21	FF-HR	X	-.001	-.001	0	%100
22	SF1-HR	X	-.000821	-.000821	0	%100
23	SF2-HR	X	-.002	-.002	0	%100
24	HRC-1	X	-.001	-.001	0	%100
25	HRC-2	X	-.003	-.003	0	%100
26	HRC-3	X	-.001	-.001	0	%100
27	FFTH	Z	.003	.003	0	%100
28	MP-1	Z	.003	.003	0	%100
29	MP-2	Z	.003	.003	0	%100
30	MP-3	Z	.003	.003	0	%100
31	MP-4	Z	.003	.003	0	%100
32	MP-5	Z	.003	.003	0	%100
33	MP-6	Z	.003	.003	0	%100
34	MP-6B	Z	.003	.003	0	%100
35	MP-6C	Z	.002	.002	0	%100
36	MP-7	Z	.003	.003	0	%100
37	MP-8	Z	.003	.003	0	%100
38	MP-9	Z	.003	.003	0	%100
39	MP-10	Z	.003	.003	0	%100
40	MP-11	Z	.003	.003	0	%100
41	MP-12	Z	.003	.003	0	%100
42	SA-1	Z	.005	.005	0	%100
43	SA-2	Z	.006	.006	0	%100
44	SA-3	Z	0	0	0	%100
45	SF2-TH	Z	.007	.007	0	%100
46	SF3-TH	Z	.003	.003	0	%100
47	FF-HR	Z	.002	.002	0	%100
48	SF1-HR	Z	.002	.002	0	%100
49	SF2-HR	Z	.003	.003	0	%100
50	HRC-1	Z	.002	.002	0	%100
51	HRC-2	Z	.004	.004	0	%100
52	HRC-3	Z	.002	.002	0	%100



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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.%]	
1	FFTH	X	-.004	-.004	0	%100
2	MP-1	X	-.002	-.002	0	%100
3	MP-2	X	-.002	-.002	0	%100
4	MP-3	X	-.002	-.002	0	%100
5	MP-4	X	-.002	-.002	0	%100
6	MP-5	X	-.002	-.002	0	%100
7	MP-6	X	-.002	-.002	0	%100
8	MP-6B	X	-.002	-.002	0	%100
9	MP-6C	X	-.002	-.002	0	%100
10	MP-7	X	-.002	-.002	0	%100
11	MP-8	X	-.002	-.002	0	%100
12	MP-9	X	-.002	-.002	0	%100
13	MP-10	X	-.002	-.002	0	%100
14	MP-11	X	-.002	-.002	0	%100
15	MP-12	X	-.002	-.002	0	%100
16	SA-1	X	-.005	-.005	0	%100
17	SA-2	X	-.003	-.003	0	%100
18	SA-3	X	-.001	-.001	0	%100
19	SF2-TH	X	-.005	-.005	0	%100
20	SF3-TH	X	-.001	-.001	0	%100
21	FF-HR	X	-.002	-.002	0	%100
22	SF1-HR	X	-.000601	-.000601	0	%100
23	SF2-HR	X	-.002	-.002	0	%100
24	HRC-1	X	-.000932	-.000932	0	%100
25	HRC-2	X	-.003	-.003	0	%100
26	HRC-3	X	-.003	-.003	0	%100
27	FFTH	Z	.004	.004	0	%100
28	MP-1	Z	.002	.002	0	%100
29	MP-2	Z	.002	.002	0	%100
30	MP-3	Z	.002	.002	0	%100
31	MP-4	Z	.002	.002	0	%100
32	MP-5	Z	.002	.002	0	%100
33	MP-6	Z	.003	.003	0	%100
34	MP-6B	Z	.002	.002	0	%100
35	MP-6C	Z	.002	.002	0	%100
36	MP-7	Z	.002	.002	0	%100
37	MP-8	Z	.002	.002	0	%100
38	MP-9	Z	.002	.002	0	%100
39	MP-10	Z	.002	.002	0	%100
40	MP-11	Z	.002	.002	0	%100
41	MP-12	Z	.002	.002	0	%100
42	SA-1	Z	.004	.004	0	%100
43	SA-2	Z	.004	.004	0	%100
44	SA-3	Z	.001	.001	0	%100
45	SF2-TH	Z	.005	.005	0	%100
46	SF3-TH	Z	.001	.001	0	%100
47	FF-HR	Z	.002	.002	0	%100
48	SF1-HR	Z	.000735	.000735	0	%100
49	SF2-HR	Z	.003	.003	0	%100
50	HRC-1	Z	.000942	.000942	0	%100
51	HRC-2	Z	.004	.004	0	%100
52	HRC-3	Z	.002	.002	0	%100



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

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
1	FFTH	X	-.006	-.006	0	%100
2	MP-1	X	-.003	-.003	0	%100
3	MP-2	X	-.002	-.002	0	%100
4	MP-3	X	-.003	-.003	0	%100
5	MP-4	X	-.002	-.002	0	%100
6	MP-5	X	-.003	-.003	0	%100
7	MP-6	X	-.003	-.003	0	%100
8	MP-6B	X	-.002	-.002	0	%100
9	MP-6C	X	-.002	-.002	0	%100
10	MP-7	X	-.003	-.003	0	%100
11	MP-8	X	-.002	-.002	0	%100
12	MP-9	X	-.003	-.003	0	%100
13	MP-10	X	-.002	-.002	0	%100
14	MP-11	X	-.003	-.003	0	%100
15	MP-12	X	-.002	-.002	0	%100
16	SA-1	X	-.006	-.006	0	%100
17	SA-2	X	-.002	-.002	0	%100
18	SA-3	X	-.003	-.003	0	%100
19	SF2-TH	X	-.005	-.005	0	%100
20	SF3-TH	X	0	0	0	%100
21	FF-HR	X	-.003	-.003	0	%100
22	SF1-HR	X	0	0	0	%100
23	SF2-HR	X	-.002	-.002	0	%100
24	HRC-1	X	0	0	0	%100
25	HRC-2	X	-.004	-.004	0	%100
26	HRC-3	X	-.004	-.004	0	%100
27	FFTH	Z	.003	.003	0	%100
28	MP-1	Z	.002	.002	0	%100
29	MP-2	Z	.002	.002	0	%100
30	MP-3	Z	.002	.002	0	%100
31	MP-4	Z	.002	.002	0	%100
32	MP-5	Z	.002	.002	0	%100
33	MP-6	Z	.002	.002	0	%100
34	MP-6B	Z	.001	.001	0	%100
35	MP-6C	Z	.001	.001	0	%100
36	MP-7	Z	.002	.002	0	%100
37	MP-8	Z	.002	.002	0	%100
38	MP-9	Z	.002	.002	0	%100
39	MP-10	Z	.002	.002	0	%100
40	MP-11	Z	.002	.002	0	%100
41	MP-12	Z	.002	.002	0	%100
42	SA-1	Z	.003	.003	0	%100
43	SA-2	Z	.002	.002	0	%100
44	SA-3	Z	.002	.002	0	%100
45	SF2-TH	Z	.003	.003	0	%100
46	SF3-TH	Z	0	0	0	%100
47	FF-HR	Z	.002	.002	0	%100
48	SF1-HR	Z	0	0	0	%100
49	SF2-HR	Z	.002	.002	0	%100
50	HRC-1	Z	0	0	0	%100
51	HRC-2	Z	.002	.002	0	%100
52	HRC-3	Z	.002	.002	0	%100



Company : Tower Engineering Professionals, Inc.
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Member Distributed Loads (BLC 37 : BLC 1 Transient Area Loads)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	FFTH	Y	-0.05	-0.05	1.583 2.038
2	FFTH	Y	-0.05	-0.08	2.038 2.492
3	FFTH	Y	-0.08	-0.11	2.492 2.947
4	FFTH	Y	-0.11	-0.11	2.947 3.401
5	FFTH	Y	-0.11	-0.11	3.401 3.855
6	FFTH	Y	-0.11	-0.11	3.855 4.31
7	FFTH	Y	-0.11	-0.11	4.31 4.764
8	FFTH	Y	-0.11	-0.11	4.764 5.219
9	FFTH	Y	-0.11	-0.11	5.219 5.673
10	FFTH	Y	-0.11	-0.11	5.673 6.127
11	FFTH	Y	-0.11	-0.11	6.127 6.582
12	FFTH	Y	-0.11	-0.11	6.582 7.036
13	FFTH	Y	-0.11	-0.11	7.036 7.491
14	FFTH	Y	-0.11	-0.11	7.491 7.945
15	FFTH	Y	-0.11	-0.11	7.945 8.399
16	FFTH	Y	-0.11	-0.11	8.399 8.854
17	FFTH	Y	-0.11	-0.11	8.854 9.308
18	FFTH	Y	-0.11	-0.11	9.308 9.763
19	FFTH	Y	-0.11	-0.11	9.763 10.217
20	FFTH	Y	-0.11	-0.08	10.217 10.671
21	FFTH	Y	-0.08	-0.05	10.671 11.126
22	FFTH	Y	-0.05	-0.05	11.126 11.58
23	SA-1	Y	-0.13	-0.13	4.582 5.369
24	SA-3	Y	-0.13	-0.13	4.582 5.369
25	SA-2	Y	-0.13	-0.13	4.582 5.369
26	SF3-TH	Y	-0.05	-0.05	1.583 2.038
27	SF3-TH	Y	-0.05	-0.08	2.038 2.492
28	SF3-TH	Y	-0.08	-0.11	2.492 2.947
29	SF3-TH	Y	-0.11	-0.11	2.947 3.401
30	SF3-TH	Y	-0.11	-0.11	3.401 3.855
31	SF3-TH	Y	-0.11	-0.11	3.855 4.31
32	SF3-TH	Y	-0.11	-0.11	4.31 4.764
33	SF3-TH	Y	-0.11	-0.11	4.764 5.219
34	SF3-TH	Y	-0.11	-0.11	5.219 5.673
35	SF3-TH	Y	-0.11	-0.11	5.673 6.127
36	SF3-TH	Y	-0.11	-0.11	6.127 6.582
37	SF3-TH	Y	-0.11	-0.11	6.582 7.036
38	SF3-TH	Y	-0.11	-0.11	7.036 7.491
39	SF3-TH	Y	-0.11	-0.11	7.491 7.945
40	SF3-TH	Y	-0.11	-0.11	7.945 8.399
41	SF3-TH	Y	-0.11	-0.11	8.399 8.854
42	SF3-TH	Y	-0.11	-0.11	8.854 9.308
43	SF3-TH	Y	-0.11	-0.11	9.308 9.763
44	SF3-TH	Y	-0.11	-0.11	9.763 10.217
45	SF3-TH	Y	-0.11	-0.08	10.217 10.671
46	SF3-TH	Y	-0.08	-0.05	10.671 11.126
47	SF3-TH	Y	-0.05	-0.05	11.126 11.58
48	SF2-TH	Y	-0.05	-0.05	1.583 2.038
49	SF2-TH	Y	-0.05	-0.08	2.038 2.492
50	SF2-TH	Y	-0.08	-0.11	2.492 2.947
51	SF2-TH	Y	-0.11	-0.11	2.947 3.401
52	SF2-TH	Y	-0.11	-0.11	3.401 3.855



Company : Tower Engineering Professionals, Inc.
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Member Distributed Loads (BLC 37 : BLC 1 Transient Area Loads) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]
53	SF2-TH	Y	-0.11	-0.11	3.855 4.31
54	SF2-TH	Y	-0.11	-0.11	4.31 4.764
55	SF2-TH	Y	-0.11	-0.11	4.764 5.219
56	SF2-TH	Y	-0.11	-0.11	5.219 5.673
57	SF2-TH	Y	-0.11	-0.11	5.673 6.127
58	SF2-TH	Y	-0.11	-0.11	6.127 6.582
59	SF2-TH	Y	-0.11	-0.11	6.582 7.036
60	SF2-TH	Y	-0.11	-0.11	7.036 7.491
61	SF2-TH	Y	-0.11	-0.11	7.491 7.945
62	SF2-TH	Y	-0.11	-0.11	7.945 8.399
63	SF2-TH	Y	-0.11	-0.11	8.399 8.854
64	SF2-TH	Y	-0.11	-0.11	8.854 9.308
65	SF2-TH	Y	-0.11	-0.11	9.308 9.763
66	SF2-TH	Y	-0.11	-0.11	9.763 10.217
67	SF2-TH	Y	-0.11	-0.08	10.217 10.671
68	SF2-TH	Y	-0.08	-0.05	10.671 11.126
69	SF2-TH	Y	-0.05	-0.05	11.126 11.58

Member Distributed Loads (BLC 38 : BLC 18 Transient Area Loads)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	FFTH	Y	-0.04	-0.04	1.583 2.038
2	FFTH	Y	-0.04	-0.05	2.038 2.492
3	FFTH	Y	-0.05	-0.07	2.492 2.947
4	FFTH	Y	-0.07	-0.07	2.947 3.401
5	FFTH	Y	-0.07	-0.07	3.401 3.855
6	FFTH	Y	-0.07	-0.07	3.855 4.31
7	FFTH	Y	-0.07	-0.07	4.31 4.764
8	FFTH	Y	-0.07	-0.07	4.764 5.219
9	FFTH	Y	-0.07	-0.07	5.219 5.673
10	FFTH	Y	-0.07	-0.07	5.673 6.127
11	FFTH	Y	-0.07	-0.07	6.127 6.582
12	FFTH	Y	-0.07	-0.07	6.582 7.036
13	FFTH	Y	-0.07	-0.07	7.036 7.491
14	FFTH	Y	-0.07	-0.07	7.491 7.945
15	FFTH	Y	-0.07	-0.07	7.945 8.399
16	FFTH	Y	-0.07	-0.07	8.399 8.854
17	FFTH	Y	-0.07	-0.07	8.854 9.308
18	FFTH	Y	-0.07	-0.07	9.308 9.763
19	FFTH	Y	-0.07	-0.07	9.763 10.217
20	FFTH	Y	-0.07	-0.05	10.217 10.671
21	FFTH	Y	-0.05	-0.04	10.671 11.126
22	FFTH	Y	-0.04	-0.04	11.126 11.58
23	SA-1	Y	-0.08	-0.08	4.582 5.369
24	SA-3	Y	-0.08	-0.08	4.582 5.369
25	SA-2	Y	-0.08	-0.08	4.582 5.369
26	SF3-TH	Y	-0.04	-0.04	1.583 2.038
27	SF3-TH	Y	-0.04	-0.05	2.038 2.492
28	SF3-TH	Y	-0.05	-0.07	2.492 2.947
29	SF3-TH	Y	-0.07	-0.07	2.947 3.401
30	SF3-TH	Y	-0.07	-0.07	3.401 3.855
31	SF3-TH	Y	-0.07	-0.07	3.855 4.31



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 Designer : DJM
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Member Distributed Loads (BLC 38 : BLC 18 Transient Area Loads) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
32	SF3-TH	Y	-0.07	-0.07	4.31	4.764
33	SF3-TH	Y	-0.07	-0.07	4.764	5.219
34	SF3-TH	Y	-0.07	-0.07	5.219	5.673
35	SF3-TH	Y	-0.07	-0.07	5.673	6.127
36	SF3-TH	Y	-0.07	-0.07	6.127	6.582
37	SF3-TH	Y	-0.07	-0.07	6.582	7.036
38	SF3-TH	Y	-0.07	-0.07	7.036	7.491
39	SF3-TH	Y	-0.07	-0.07	7.491	7.945
40	SF3-TH	Y	-0.07	-0.07	7.945	8.399
41	SF3-TH	Y	-0.07	-0.07	8.399	8.854
42	SF3-TH	Y	-0.07	-0.07	8.854	9.308
43	SF3-TH	Y	-0.07	-0.07	9.308	9.763
44	SF3-TH	Y	-0.07	-0.07	9.763	10.217
45	SF3-TH	Y	-0.07	-0.05	10.217	10.671
46	SF3-TH	Y	-0.05	-0.04	10.671	11.126
47	SF3-TH	Y	-0.04	-0.04	11.126	11.58
48	SF2-TH	Y	-0.04	-0.04	1.583	2.038
49	SF2-TH	Y	-0.04	-0.05	2.038	2.492
50	SF2-TH	Y	-0.05	-0.07	2.492	2.947
51	SF2-TH	Y	-0.07	-0.07	2.947	3.401
52	SF2-TH	Y	-0.07	-0.07	3.401	3.855
53	SF2-TH	Y	-0.07	-0.07	3.855	4.31
54	SF2-TH	Y	-0.07	-0.07	4.31	4.764
55	SF2-TH	Y	-0.07	-0.07	4.764	5.219
56	SF2-TH	Y	-0.07	-0.07	5.219	5.673
57	SF2-TH	Y	-0.07	-0.07	5.673	6.127
58	SF2-TH	Y	-0.07	-0.07	6.127	6.582
59	SF2-TH	Y	-0.07	-0.07	6.582	7.036
60	SF2-TH	Y	-0.07	-0.07	7.036	7.491
61	SF2-TH	Y	-0.07	-0.07	7.491	7.945
62	SF2-TH	Y	-0.07	-0.07	7.945	8.399
63	SF2-TH	Y	-0.07	-0.07	8.399	8.854
64	SF2-TH	Y	-0.07	-0.07	8.854	9.308
65	SF2-TH	Y	-0.07	-0.07	9.308	9.763
66	SF2-TH	Y	-0.07	-0.07	9.763	10.217
67	SF2-TH	Y	-0.07	-0.05	10.217	10.671
68	SF2-TH	Y	-0.05	-0.04	10.671	11.126
69	SF2-TH	Y	-0.04	-0.04	11.126	11.58

Member Area Loads (BLC 1 : Dead)

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]	
1	P3	P4	P1	P2	Y	Two Way	-0.12
2	P1	P9	P8	P7	Y	Two Way	-0.12
3	P7	P6	P5	P4	Y	Two Way	-0.12

Member Area Loads (BLC 18 : Ice Weight)

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]	
1	P3	P4	P1	P2	Y	Two Way	-0.08
2	P1	P9	P8	P7	Y	Two Way	-0.08
3	P7	P6	P5	P4	Y	Two Way	-0.08



Company : Tower Engineering Professionals, Inc.
 Designer : DJM
 Job Number : TEP No. 144549.564764
 Model Name : CCI BU No 876406

June 29, 2021
 2:33 PM
 Checked By: GHM

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	1.322	5	2.194	37	2.138	4	-202	13	2.091	33	4.375	34
2		min	-1.392	29	.197	13	-2.257	28	-7.803	37	-2.083	9	.073	12
3	SA2	max	2.618	18	2.202	42	.651	6	.62	30	2.151	6	-.314	2
4		min	-2.48	10	.211	2	-.652	30	-.618	22	-2.153	30	-9.02	42
5	SA3	max	1.195	14	2.074	47	2.273	23	7.235	47	1.771	27	4.339	34
6		min	-1.27	22	.178	7	-2.152	15	.142	7	-1.766	19	-.13	8
7	Totals:	max	4.456	2	6.155	39	4.366	22						
8		min	-4.456	26	2.039	15	-4.366	14						

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

Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	Pnc...	phi*	Pnt...	phi*Mn	...phi*Mn	.Cb	Eqn
1	SF2-HR	PIPE 2.0	.684	11.458	28	.271	1.042	23	1.428	32.13	1.872	1.872	2...	H1-1a	
2	MP-5	PIPE 2.0	.678	2.563	15	.124	2.5	23	17.071	32.13	1.872	1.872	1...	H1-1b	
3	MP-1	PIPE 2.0	.678	2.563	10	.117	2.5	18	17.071	32.13	1.872	1.872	1...	H1-1b	
4	MP-9	PIPE 2.0	.678	2.563	13	.187	2.5	28	17.071	32.13	1.872	1.872	1...	H1-1b	
5	FF-HR	PIPE 2.0	.645	11.458	23	.278	1.042	18	1.428	32.13	1.872	1.872	2...	H1-1a	
6	SF1-HR	PIPE 2.0	.577	11.458	18	.298	1.042	29	1.428	32.13	1.872	1.872	1...	H1-1a	
7	SA-2	HSS4X4X4	.572	0	42	.074	0	y	29	26.846	139.518	16.181	16.181	2...	H1-1b
8	SA-1	HSS4X4X4	.566	0	37	.077	0	y	23	26.846	139.518	16.181	16.181	2...	H1-1b
9	SA-3	HSS4X4X4	.535	0	48	.080	0	y	18	26.846	139.518	16.181	16.181	2...	H1-1b
10	HRC-3	L2.5x2.5x4	.496	1.25	29	.123	1.25	y	20	36.64	38.556	1.114	2.537	1...	H2-1
11	HRC-1	L2.5x2.5x4	.457	1.25	23	.106	1.25	y	23	36.64	38.556	1.114	2.537	1...	H2-1
12	MP-11	PIPE 2.0	.450	.813	26	.133	.813	27	27.327	32.13	1.872	1.872	3...	H1-1b	
13	HRC-2	L2.5x2.5x4	.411	1.25	18	.109	0	z	18	36.64	38.556	1.114	2.537	1...	H2-1
14	MP-7	PIPE 2.0	.351	.813	29	.093	.813	20	27.327	32.13	1.872	1.872	2...	H1-1b	
15	MP-3	PIPE 2.0	.336	.813	23	.095	.813	32	27.327	32.13	1.872	1.872	2...	H1-1b	
16	MP-2	PIPE 2.0	.332	2	23	.082	2	22	26.005	32.13	1.872	1.872	1...	H1-1b	
17	SF2-TH	HSS4X4X4	.261	0	47	.061	13.1...	z	30	16.013	139.518	16.181	16.181	3...	H1-1b
18	MP-6	PIPE 2.5	.251	3.542	29	.074	3.542	27	45.408	50.715	3.596	3.596	2...	H1-1b	
19	FFTH	HSS4X4X4	.243	0	42	.062	0	y	42	16.013	139.518	16.181	16.181	2...	H1-1b
20	SF3-TH	HSS4X4X4	.243	0	37	.063	0	y	36	16.013	139.518	16.181	16.181	2...	H1-1b
21	MP-6B	PIPE 1.5	.089	4.479	27	.006	4.479	28	23.068	23.593	1.105	1.105	2...	H1-1b	
22	MP-10	PIPE 2.0	.037	3.5	33	.004	3.5	16	16.812	32.13	1.872	1.872	1...	H1-1b	
23	MP-8	PIPE 2.0	.012	2	18	.002	2	18	26.005	32.13	1.872	1.872	1...	H1-1b	
24	MP-4	PIPE 2.0	.012	2	28	.002	2	28	26.005	32.13	1.872	1.872	1...	H1-1b	
25	MP-12	PIPE 2.0	.012	2	23	.002	2	24	26.005	32.13	1.872	1.872	1...	H1-1b	
26	MP-6C	PIPE 1.5	.011	1.813	18	.002	1.813	18	17.958	23.593	1.105	1.105	2...	H1-1b	

Envelope None Cold Formed Steel Code Checks

Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc.....	L...	Pn[k]	Tr[k]	Mny[...]	Mzz[...]	.Cb	Cmy	Cmz	Eqn
No Data to Print ...															

GENERAL NOTES

PART 1 – GENERAL REQUIREMENTS

- 1.1 THE WORK SHALL COMPLY WITH APPLICABLE NATIONAL CODES AND STANDARDS, LATEST EDITION, AND PORTIONS THEREOF, INCLUDED BUT NOT LIMITED TO THE FOLLOWING:
 - A. GR-63-CORE NEBS REQUIREMENTS: PHYSICAL PROTECTION
 - B. GR-78-CORE GENERIC REQUIREMENTS FOR THE PHYSICAL DESIGN AND MANUFACTURE OF TELECOMMUNICATIONS EQUIPMENT.
 - C. NATIONAL FIRE PROTECTION ASSOCIATION CODES AND STANDARDS (NFPA) INCLUDING NFPA 70 (NATIONAL ELECTRICAL CODE – "NEC").
 - D. AND NFPA 101 (LIFE SAFETY CODE).
 - E. AMERICAN SOCIETY FOR TESTING OF MATERIALS (ASTM).
 - F. INSTITUTE OF ELECTRONIC AND ELECTRICAL ENGINEERS (IEEE).
- 1.2 DEFINITIONS:
 - A: WORK: THE SUM OF TASKS AND RESPONSIBILITIES IDENTIFIED IN THE CONTRACT DOCUMENTS.
 - B: COMPANY: T-MOBILE CORPORATION
 - C. ENGINEER: SYNONYMOUS WITH ARCHITECT & ENGINEER AND "A&E". THE DESIGN PROFESSIONAL HAVING PROFESSIONAL RESPONSIBILITY FOR DESIGN OF THE PROJECT.
 - D: CONTRACTOR: CONSTRUCTION CONTRACTOR; CONSTRUCTION VENDOR; INDIVIDUAL OR ENTITY WHO AFTER EXECUTION OF A CONTRACT IS BOUND TO ACCOMPLISH THE WORK.
 - E: THIRD PARTY VENDOR OR AGENCY: A VENDOR OR AGENCY ENGAGED SEPARATELY BY THE COMPANY, A&E, OR CONTRACTOR TO PROVIDE MATERIALS OR TO ACCOMPLISH SPECIFIC TASKS RELATED TO BUT NOT INCLUDED IN THE WORK.
- 1.3 POINT OF CONTACT: COMMUNICATION BETWEEN THE COMPANY AND THE CONTRACTOR SHALL FLOW THROUGH THE SINGLE COMPANY SITE DEVELOPMENT SPECIALIST OR OTHER PROJECT COORDINATOR APPOINTED TO MANAGE THE PROJECT FOR THE COMPANY.
- 1.4 ON-SITE SUPERVISION: THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL EMPLOY A COMPETENT SUPERINTENDENT WHO SHALL BE IN ATTENDANCE AT THE SITE AT ALL TIMES DURING PERFORMANCE OF THE WORK.
- 1.5 DRAWINGS, SPECIFICATIONS AND DETAILS REQUIRED AT JOBSITE: THE CONSTRUCTION CONTRACTOR SHALL MAINTAIN A FULL SET OF THE CONSTRUCTION DRAWINGS, STANDARD CONSTRUCTION DETAILS FOR WIRELESS SITES, AND THE STANDARD CONSTRUCTION SPECIFICATIONS FOR WIRELESS SITES AT THE JOBSITE FROM MOBILIZATION THROUGH CONSTRUCTION COMPLETION.
 - A. THE JOBSITE DRAWINGS, SPECIFICATIONS AND DETAILS SHALL BE CLEARLY MARKED DAILY IN PENCIL WITH ANY CHANGES IN CONSTRUCTION OVER WHAT IS DEPICTED IN THE DOCUMENTS. AT CONSTRUCTION COMPLETION, THIS JOBSITE MARKUP SET SHALL BE DELIVERED TO THE COMPANY OR COMPANY'S DESIGNATED REPRESENTATIVE TO BE FORWARDED TO THE COMPANY'S A&E VENDOR FOR PRODUCTION OF "AS-BUILT" DRAWINGS.
- 1.6 USE OF JOB SITE: THE CONTRACTOR SHALL CONFINE ALL CONSTRUCTION AND RELATED OPERATIONS INCLUDING STAGING AND STORAGE OF MATERIALS AND EQUIPMENT, PARKING, TEMPORARY FACILITIES, AND WASTE STORAGE TO THE LEASE PARCEL UNLESS OTHERWISE PERMITTED BY THE CONTRACT DOCUMENTS.
- 1.7 NOTICE TO PROCEED:
 - A. NO WORK SHALL COMMENCE PRIOR TO COMPANY'S WRITTEN NOTICE TO PROCEED.
 - B. UPON RECEIVING NOTICE TO PROCEED, CONTRACTOR SHALL FULLY PERFORM ALL WORK NECESSARY TO PROVIDE T-MOBILE WITH AN OPERATIONAL WIRELESS FACILITY.

PART 2 – EXECUTION

- 2.1 TEMPORARY UTILITIES AND FACILITIES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY UTILITIES AND FACILITIES NECESSARY EXCEPT AS OTHERWISE INDICATED IN THE CONSTRUCTION DOCUMENTS. TEMPORARY UTILITIES AND FACILITIES INCLUDE, POTABLE WATER, HEAT, HVAC, ELECTRICITY, SANITARY FACILITIES, WASTE DISPOSAL FACILITIES, AND TELEPHONE/COMMUNICATION SERVICES. PROVIDE TEMPORARY UTILITIES AND FACILITIES IN ACCORDANCE WITH OSHA AND THE AUTHORITY HAVING JURISDICTION. CONTRACTOR MAY UTILIZE THE COMPANY ELECTRICAL SERVICE IN THE COMPLETION OF THE WORK WHEN IT BECOMES AVAILABLE. USE OF THE LESSORS OR SITE OWNER'S UTILITIES OR FACILITIES IS EXPRESSLY FORBIDDEN EXCEPT AS OTHERWISE ALLOWED IN THE CONTRACT DOCUMENTS.
- 2.2 ACCESS TO WORK: THE CONTRACTOR SHALL PROVIDE ACCESS TO THE JOB SITE FOR AUTHORIZED COMPANY PERSONNEL AND AUTHORIZED REPRESENTATIVES OF THE ARCHITECT/ENGINEER DURING ALL PHASES OF THE WORK.
- 2.3 TESTING: REQUIREMENTS FOR TESTING BY THIS CONTRACTOR SHALL BE AS INDICATED HERewith, ON THE CONSTRUCTION DRAWINGS, AND IN THE INDIVIDUAL SECTIONS OF THESE SPECIFICATIONS. SHOULD COMPANY CHOOSE TO ENGAGE ANY THIRD-PARTY TO CONDUCT ADDITIONAL TESTING, THE CONTRACTOR SHALL COOPERATE WITH AND PROVIDE A WORK AREA FOR COMPANY'S TEST AGENCY.

- 2.4 COMPANY FURNISHED MATERIAL AND EQUIPMENT: ALL HANDLING, STORAGE AND INSTALLATION OF COMPANY FURNISHED MATERIAL AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
 - A. CONTRACTOR SHALL PROCURE ALL OTHER REQUIRED WORK RELATED MATERIALS NOT PROVIDED BY T-MOBILE TO SUCCESSFULLY CONSTRUCT A WIRELESS FACILITY.
- 2.5 DIMENSIONS: VERIFY DIMENSIONS INDICATED ON DRAWINGS WITH FIELD DIMENSIONS BEFORE FABRICATION OR ORDERING OF MATERIALS. DO NOT SCALE DRAWINGS.
- 2.6 EXISTING CONDITIONS: NOTIFY THE COMPANY REPRESENTATIVE OF EXISTING CONDITIONS DIFFERING FROM THOSE INDICATED ON THE DRAWINGS. DO NOT REMOVE OR ALTER STRUCTURAL COMPONENTS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ARCHITECT AND ENGINEER.

PART 3 – RECEIPT OF MATERIAL & EQUIPMENT

- 3.1 RECEIPT OF MATERIAL AND EQUIPMENT: CONTRACTOR IS RESPONSIBLE FOR T-MOBILE PROVIDED MATERIAL AND EQUIPMENT AND UPON RECEIPT SHALL:
 - A. ACCEPT DELIVERIES AS SHIPPED AND TAKE RECEIPT.
 - B. VERIFY COMPLETENESS AND CONDITION OF ALL DELIVERIES.
 - C. TAKE RESPONSIBILITY FOR EQUIPMENT AND PROVIDE INSURANCE PROTECTION AS REQUIRED IN AGREEMENT.
 - D. RECORD ANY DEFECTS OR DAMAGES AND WITHIN TWENTY-FOUR HOURS AFTER RECEIPT, REPORT TO T-MOBILE OR ITS DESIGNATED PROJECT REPRESENTATIVE OF SUCH.
 - E. PROVIDE SECURE AND NECESSARY WEATHER PROTECTED WAREHOUSING.
 - F. COORDINATE SAFE AND SECURE TRANSPORTATION OF MATERIAL AND EQUIPMENT, DELIVERING AND OFF-LOADING FROM CONTRACTOR'S WAREHOUSE TO SITE.

PART 4 – GENERAL REQUIREMENTS FOR CONSTRUCTION

- 4.1 CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH. AT THE COMPLETION OF THE WORK, CONTRACTOR SHALL REMOVE FROM THE SITE ALL REMAINING RUBBISH, IMPLEMENTS, TEMPORARY FACILITIES, AND SURPLUS MATERIALS.
- 4.2 EQUIPMENT ROOMS SHALL AT ALL TIMES BE MAINTAINED "BROOM CLEAN" AND CLEAR OF DEBRIS.
- 4.3 CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO DISCOVER AND LOCATE ANY HAZARDOUS CONDITION.
 - A. IN THE EVENT CONTRACTOR ENCOUNTERS ANY HAZARDOUS CONDITION WHICH HAS NOT BEEN ABATED OR OTHERWISE MITIGATED, CONTRACTOR AND ALL OTHER PERSONS SHALL IMMEDIATELY STOP WORK IN THE AFFECTED AREA AND NOTIFY COMPANY IN WRITING. THE WORK IN THE AFFECTED AREA SHALL NOT BE RESUMED EXCEPT BY WRITTEN NOTIFICATION BY COMPANY.
 - B. CONTRACTOR AGREES TO USE CARE WHILE ON THE SITE AND SHALL NOT TAKE ANY ACTION THAT WILL OR MAY RESULT IN OR CAUSE THE HAZARDOUS CONDITION TO BE FURTHER RELEASED IN THE ENVIRONMENT, OR TO FURTHER EXPOSE INDIVIDUALS TO THE HAZARD.
- 4.4 CONTRACTOR'S ACTIVITIES SHALL BE RESTRICTED TO THE PROJECT LIMITS. SHOULD AREAS OUTSIDE THE PROJECT LIMITS BE AFFECTED BY CONTRACTOR'S ACTIVITIES, CONTRACTOR SHALL IMMEDIATELY RETURN THEM TO ORIGINAL CONDITION.
- 4.5 CONDUCT TESTING AS REQUIRED HEREIN.

PART 5 – TESTS AND INSPECTIONS

- 5.1 TESTS AND INSPECTIONS:
 - A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION TESTS, INSPECTIONS AND PROJECT DOCUMENTATION.
 - B. CONTRACTOR SHALL COORDINATE TEST AND INSPECTION SCHEDULES WITH COMPANY'S REPRESENTATIVE WHO MUST BE ON SITE TO WITNESS SUCH TESTS AND INSPECTIONS.
 - C. WHEN THE USE OF A THIRD PARTY INDEPENDENT TESTING AGENCY IS REQUIRED, THE AGENCY THAT IS SELECTED MUST PERFORM SUCH WORK ON A REGULAR BASIS IN THE STATE WHERE THE PROJECT IS LOCATED AND HAVE A THOROUGH UNDERSTANDING OF LOCAL AVAILABLE MATERIALS, INCLUDING THE SOIL, ROCK, AND GROUNDWATER CONDITIONS.
 - D. THE THIRD PARTY TESTING AGENCY IS TO BE FAMILIAR WITH THE APPLICABLE REQUIREMENTS FOR THE TESTS TO BE DONE, EQUIPMENT TO BE USED, AND ASSOCIATED HEALTH AND SAFETY ISSUES.
 - E. SITE RESISTANCE TO EARTH TESTING PER EXHIBIT: CELL SITE GROUNDING SYSTEM DESIGN.

- F. ANTENNA AND COAX SWEEP TESTS PER EXHIBIT: ANTENNA TRANSMISSION LINE ACCEPTANCE STANDARDS.
- G. ALL OTHER TESTS REQUIRED BY COMPANY OR JURISDICTION.

PART 6 – TRENCHING AND BACKFILLING

- 6.1 TRENCHING AND BACKFILLING: THE CONTRACTOR SHALL PERFORM ALL EXCAVATION OF EVERY DESCRIPTION AND OF WHATEVER SUBSTANCES ENCOUNTERED, TO THE DEPTHS INDICATED ON THE CONSTRUCTION DRAWINGS OR AS OTHERWISE SPECIFIED.
 - A. PROTECTION OF EXISTING UTILITIES: THE CONTRACTOR SHALL CHECK WITH THE LOCAL UTILITIES AND THE RESPECTIVE UTILITY LOCATOR COMPANIES PRIOR TO STARTING EXCAVATION OPERATIONS IN EACH RESPECTIVE AREA TO ASCERTAIN THE LOCATIONS OF KNOWN UTILITY LINES. THE LOCATIONS, NUMBER AND TYPES OF EXISTING UTILITY LINES DETAILED ON THE CONSTRUCTION DRAWINGS ARE APPROXIMATE AND DO NOT REPRESENT EXACT INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL LINES DAMAGED DURING EXCAVATION AND ALL ASSOCIATED OPERATIONS. ALL UTILITY LINES UNCOVERED DURING THE EXCAVATION OPERATIONS, SHALL BE PROTECTED FROM DAMAGE DURING EXCAVATION AND ASSOCIATED OPERATIONS. ALL REPAIRS SHALL BE APPROVED BY THE UTILITY COMPANY.
 - B. HAND DIGGING: UNLESS APPROVED IN WRITING OTHERWISE, ALL DIGGING WITHIN AN EXISTING CELL SITE COMPOUND IS TO BE DONE BY HAND.
 - C. DURING EXCAVATION, MATERIAL SUITABLE FOR BACKFILLING SHALL BE STOCKPILED IN AN ORDERLY MANNER A SUFFICIENT DISTANCE FROM THE BANKS OF THE TRENCH TO AVOID OVERLOADING AND TO PREVENT SLIDES OR CAVE-INS. ALL EXCAVATED MATERIALS NOT REQUIRED OR SUITABLE FOR BACKFILL SHALL BE REMOVED AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
 - D. GRADING SHALL BE DONE AS MAY BE NECESSARY TO PREVENT SURFACE WATER FROM FLOWING INTO TRENCHES OR OTHER EXCAVATIONS, AND ANY WATER ACCUMULATING THEREIN SHALL BE REMOVED BY PUMPING OR BY OTHER APPROVED METHOD.
 - E. SHEETING AND SHORING SHALL BE DONE AS NECESSARY FOR THE PROTECTION OF THE WORK AND FOR THE SAFETY OF PERSONNEL. UNLESS OTHERWISE INDICATED, EXCAVATION SHALL BE BY OPEN CUT, EXCEPT THAT SHORT SECTIONS OF A TRENCH MAY BE TUNNELED IF, THE CONDUIT CAN BE SAFELY AND PROPERLY INSTALLED AND BACKFILL CAN BE PROPERLY TAMPED IN SUCH TUNNEL SECTIONS. EARTH EXCAVATION SHALL COMPRISE ALL MATERIALS AND SHALL INCLUDE CLAY, SILT, SAND, MUCK, GRAVEL, HARDPAN, LOOSE SHALE, AND LOOSE STONE.
 - F. TRENCHES SHALL BE OF NECESSARY WIDTH FOR THE PROPER LAYING OF THE CONDUIT OR CABLE, AND THE BANKS SHALL BE AS NEARLY VERTICAL AS PRACTICABLE. THE BOTTOM OF THE TRENCHES SHALL BE ACCURATELY GRADED TO PROVIDE UNIFORM BEARING AND SUPPORT FOR EACH SECTION OF THE CONDUIT OR CABLE ON UNDISTURBED SOIL AT EVERY POINT ALONG ITS ENTIRE LENGTH. EXCEPT WHERE ROCK IS ENCOUNTERED, CARE SHALL BE TAKEN NOT TO EXCAVATE BELOW THE DEPTHS INDICATED. WHERE ROCK EXCAVATIONS ARE NECESSARY, THE ROCK SHALL BE EXCAVATED TO A MINIMUM OVER DEPTH OF 6 INCHES BELOW THE TRENCH DEPTHS INDICATED ON THE CONSTRUCTION DRAWINGS OR SPECIFIED. OVER DEPTHS IN THE ROCK EXCAVATION AND UNAUTHORIZED OVER DEPTHS SHALL BE THOROUGHLY BACK FILLED AND TAMPED TO THE APPROPRIATE GRADE. WHENEVER WET OR OTHERWISE UNSTABLE SOIL THAT IS INCAPABLE OF PROPERLY SUPPORTING THE CONDUIT OR CABLE IS ENCOUNTERED IN THE BOTTOM OF THE TRENCH, SUCH SOLID SHALL BE REMOVED TO A MINIMUM OVER DEPTH OF 6 INCHES AND THE TRENCH BACKFILLED TO THE PROPER GRADE WITH EARTH OF OTHER SUITABLE MATERIAL, AS HEREINAFTER SPECIFIED.
 - G. BACKFILLING OF TRENCHES. TRENCHES SHALL NOT BE BACKFILLED UNTIL ALL SPECIFIED TESTS HAVE BEEN PERFORMED AND ACCEPTED. WHERE COMPACTED BACKFILL IS NOT INDICATED THE TRENCHES SHALL BE CAREFULLY BACKFILLED WITH SELECT MATERIAL SUCH AS EXCAVATED SOILS THAT ARE FREE OF ROOTS, SOD, RUBBISH OR STONES, DEPOSITED IN 6 INCH LAYERS AND THOROUGHLY AND CAREFULLY RAMMED UNTIL THE CONDUIT OR CABLE HAS A COVER OF NOT LESS THAN 1 FOOT. THE REMAINDER OF THE BACKFILL MATERIAL SHALL BE GRANULAR IN NATURE AND SHALL NOT CONTAIN ROOTS, SOD, RUBBING, OR STONES OF 2-1/2 INCH MAXIMUM DIMENSION. BACKFILL SHALL BE CAREFULLY PLACED IN THE TRENCH AND IN 1 FOOT LAYERS AND EACH LAYER TAMPED. SETTLING THE BACKFILL WITH WATER WILL BE PERMITTED. THE SURFACE SHALL BE GRADED TO A REASONABLE UNIFORMITY AND THE MOUNDING OVER THE TRENCHES LEFT IN A UNIFORM AND NEAT CONDITION.

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER
	NON-FUSIBLE DISCONNECT SWITCH
	FUSIBLE DISCONNECT SWITCH
	SURFACE MOUNTED PANEL BOARD
	TRANSFORMER
	KILOWATT HOUR METER
	JUNCTION BOX
	PULL BOX TO NEC/TELCO STANDARDS
-----	UNDERGROUND UTILITIES
	EXOTHERMIC WELD CONNECTION
	MECHANICAL CONNECTION
	GROUND ROD
	GROUND ROD WITH INSPECTION SLEEVE
	GROUND BAR
	120A DUPLEX RECEPTACLE
	GROUND CONDUCTOR
	DC POWER AND FIBER OPTIC TRUNK CABLES
	DC POWER CABLES
	REPRESENTS DETAIL NUMBER
	REF. DRAWING NUMBER

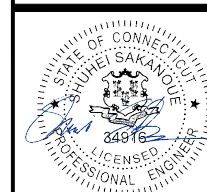
ABBREVIATIONS

CIGBE	COAX ISOLATED GROUND BAR EXTERNAL
MIGB	MASTER ISOLATED GROUND BAR
SST	SELF SUPPORTING TOWER
GPS	GLOBAL POSITIONING SYSTEM
TYP.	TYPICAL
DWG	DRAWING
BCW	BARE COPPER WIRE
BFG	BELOW FINISH GRADE
PVC	POLYVINYL CHLORIDE
CAB	CABINET
C	CONDUIT
SS	STAINLESS STEEL
G	GROUND
AWG	AMERICAN WIRE GAUGE
RGS	RIGID GALVANIZED STEEL
AHJ	AUTHORITY HAVING JURISDICTION
TTLNA	TOWER TOP LOW NOISE AMPLIFIER
UNO	UNLESS NOTED OTHERWISE
EMT	ELECTRICAL METALLIC TUBING
AGL	ABOVE GROUND LEVEL

T-Mobile

T-MOBILE NORTHEAST LLC
103 MONARCH DRIVE
LIVERPOOL, NY 13088

INFINIGY & ENGINEERING, PLLC
6865 DEERPATH ROAD SUITE 152
ELK RIDGE, MD 21075



07-22-2021

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6	MA/SA UPDATED	SS	07/21/21
5	ANTENNA REMOVAL	JD	07/20/21
4	ANTENNA REMOVAL	SS	06/07/21
3	REVISED PER STRUCTURAL	BMM	04/22/21
2	REVISED PER NEW RFDS	MPB	12/28/20
1	TOWER STRUCTURAL	JB	04/15/19
0	ISSUED FOR CONSTRUCTION	JB	10/02/18
A	ISSUED FOR REVIEW	SL	09/14/18
No.	Submittal / Revision	App'd	Date

Drawn: rcp
Designed: uml
Checked: ajp

Project Number:

600-007

Project Title:

CTNL226A
CROWN OLD LYME
MONOPOLE
188 BOSTON POST ROAD
OLD LYME, CT 06371

Prepared For:

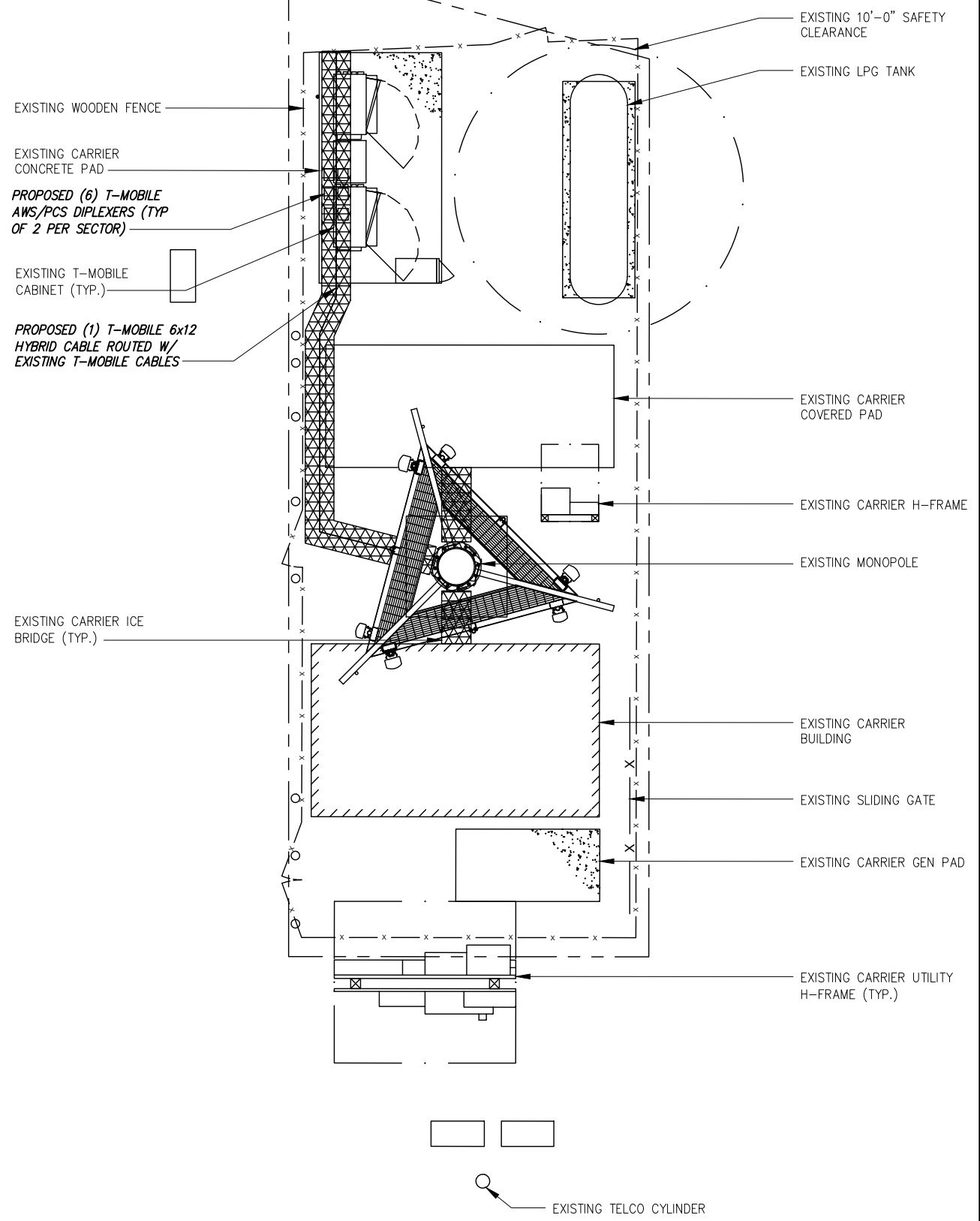
CROWN CASTLE

Drawing Title

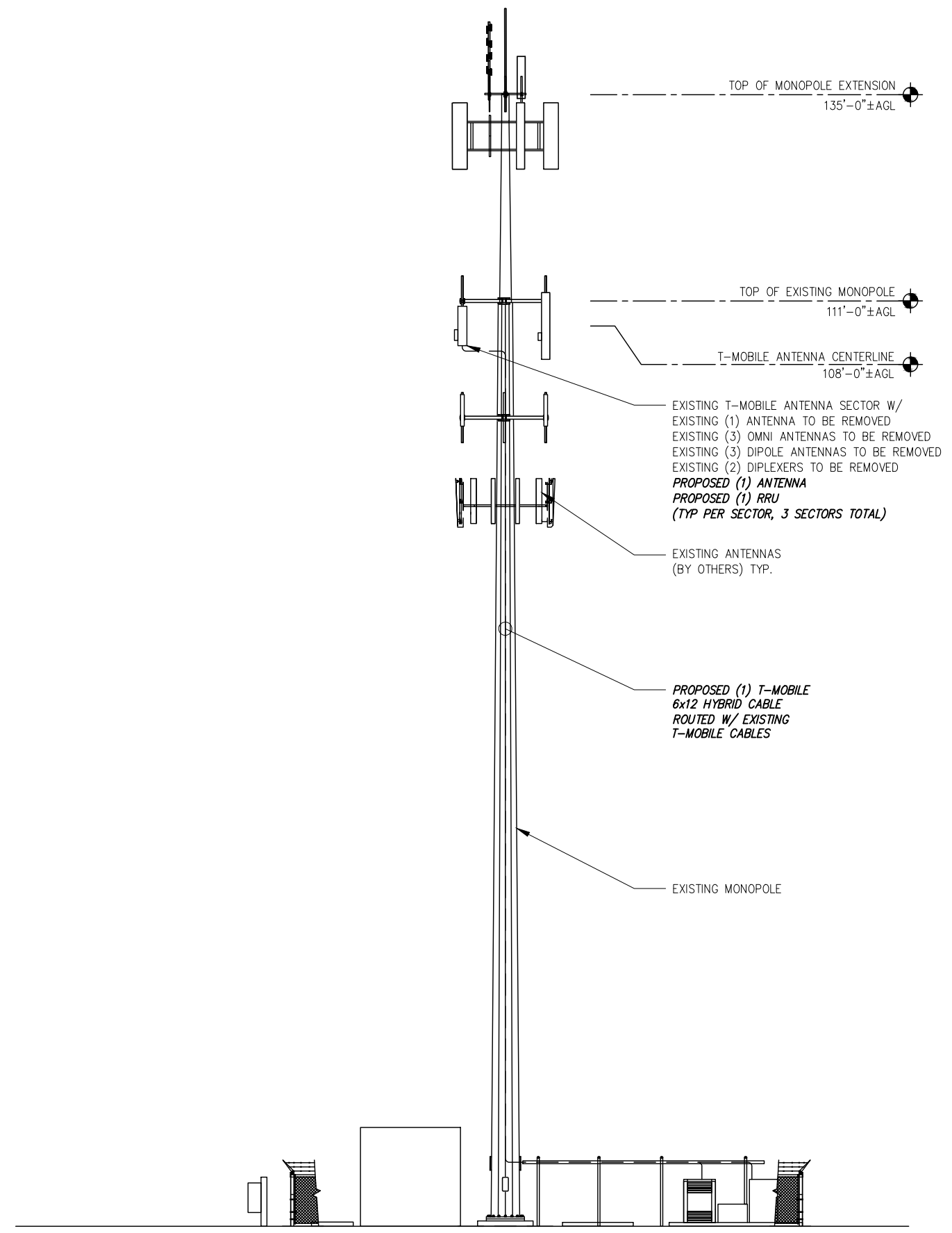
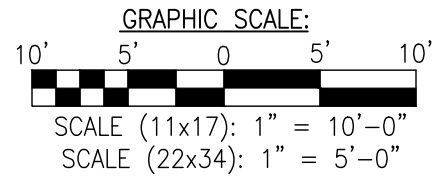
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Drawing Number

N1



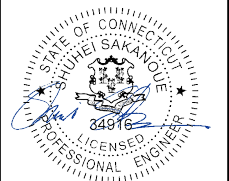
1 PLAN VIEW
C1 SCALE: AS NOTED



2 ELEVATION
C1 SCALE: NOT TO SCALE

T-Mobile
 T-MOBILE NORTHEAST LLC
 103 MONARCH DRIVE
 LIVERPOOL, NY 13088

INFINIGY&
 ENGINEERING, PLLC
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07-22-2021

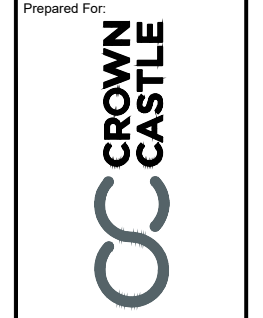
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6	MA/SA UPDATED	SS	07/21/21
5	ANTENNA REMOVAL	JUD	07/20/21
4	ANTENNA REMOVAL	SS	06/07/21
3	REVISED PER STRUCTURAL	BMM	04/22/21
2	REVISED PER NEW RFDS	MPB	12/28/20
1	TOWER STRUCTURAL	JB	04/15/19
0	ISSUED FOR CONSTRUCTION	JB	10/02/18
A	ISSUED FOR REVIEW	SL	09/14/18
No.	Submittal / Revision	App'd	Date

Drawn: RCD
 Designed: MRL
 Checked: AD

Project Number:
 600-007

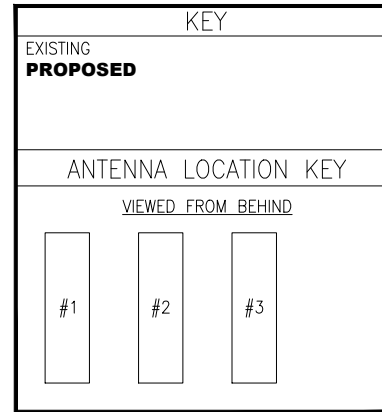
Project Title:
CTNL226A
MONOPOLE
 189 BOSTON POST ROAD
 OLD LYME, CT 06371



Drawing Title
PLAN AND ELEVATION

Drawing Number
C1

SECTOR	ANTENNA POSITION	ANTENNA MODEL #	VENDOR	AZIMUTH	M-TILT	E-TILT	ANTENNA CENTERLINE	TMA/RRU MODEL #	CABLE LENGTH	CABLE TYPE AND QUANTITY
ALPHA	A-1	-	-	-	-	-	-	-	-	-
	A-2	-	-	-	-	-	-	-	-	-
	A-3	APXVAALL24_43-U-NA20	RFS	0°	0°	2°	108'-0"	4449 B71+B85	250'±	(1) 6X12 HYBRID TRUNK CABLE (SHARED)
BETA	B-1	APXV18-206517S-C-A20	-	-	-	-	-	-	-	-
	B-2	-	-	-	-	-	-	-	-	-
	B-3	APXVAALL24_43-U-NA20	RFS	120°	0°	2°	108'-0"	4449 B71+B85	250'±	(1) 6X12 HYBRID TRUNK CABLE (SHARED)
GAMMA	C-1	-	-	-	-	-	-	-	-	-
	C-2	-	-	-	-	-	-	-	-	-
	C-3	APXVAALL24_43-U-NA20	RFS	240°	0°	2°	108'-0"	4449 B71+B85	250'±	(1) 6X12 HYBRID TRUNK CABLE (SHARED)

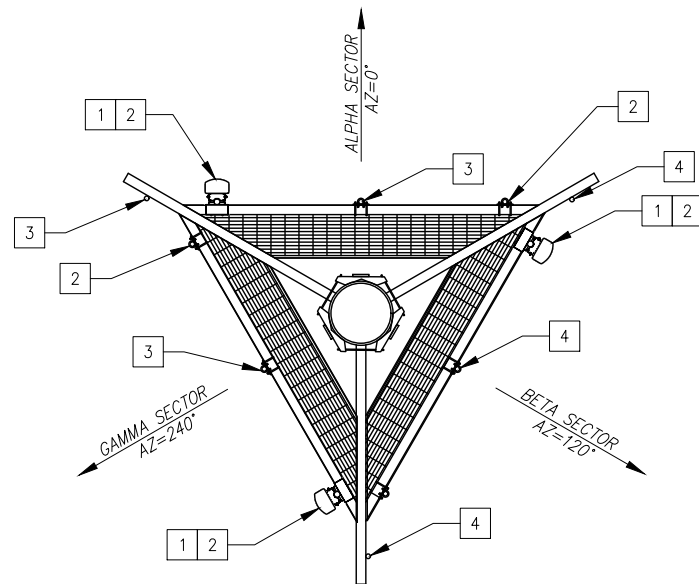


GENERAL NOTES:

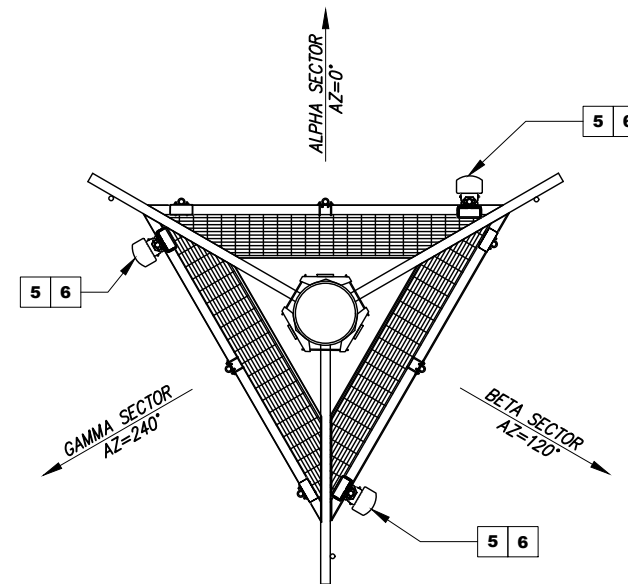
- CONTRACTOR TO VERIFY PROPOSED ANTENNA INFORMATION IS THE MOST CURRENT AT TIME OF CONSTRUCTION.
- CONTRACTOR TO CONFIRM CABLE LENGTHS FOR ANY PROPOSED CABLES/JUMPERS PRIOR TO CONSTRUCTION.

ORIENTATION PLAN KEY				
KEY	DESCRIPTION	TYPE	QTY	STATUS
1	APXV18-206517S-C-A20	ANTENNA	3	REMOVED
2	E15S09P74	DIPLEXER	6	REMOVED
3	OMNI	ANTENNA	3	REMOVED
4	DIPOLE	ANTENNA	3	REMOVED
5	RFS-APXVAALL24_43-U-NA20	ANTENNA	3	PROPOSED
6	RRU 4449 B71+B85	RRU	3	PROPOSED

1 RF SYSTEM CHART
C2 SCALE: NOT TO SCALE



2 EXISTING ANTENNA ORIENTATION
C2 SCALE: NOT TO SCALE



3 PROPOSED ANTENNA ORIENTATION
C2 SCALE: NOT TO SCALE



07-22-2021

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2	REVISED PER NEW RFDS	MPB	12/28/20
1	TOWER STRUCTURAL	JB	04/15/19
0	ISSUED FOR CONSTRUCTION	JB	10/02/18
A	ISSUED FOR REVIEW	SL	09/14/18

Drawn: RCD
Designed: MRL
Checked: AID

Project Number:

600-007

Project Title:

CTNL226A
CROWN OLD LYME
MONOPOLE
188 BOSTON POST ROAD
OLD LYME, CT 06371

Prepared For:

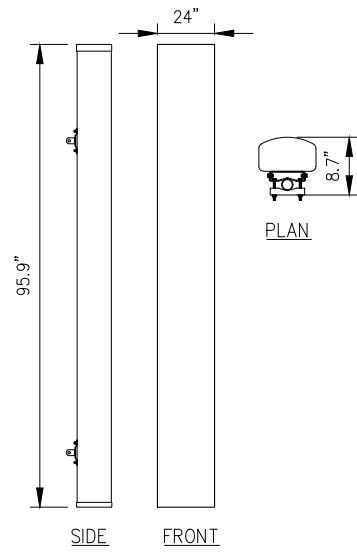


Drawing Title

RF CHART

Drawing Number

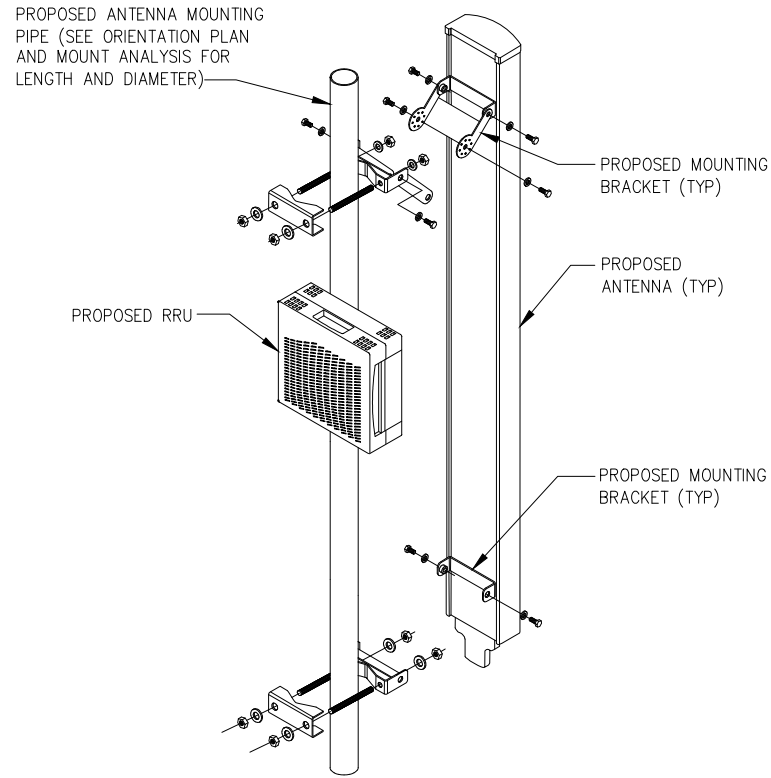
C2



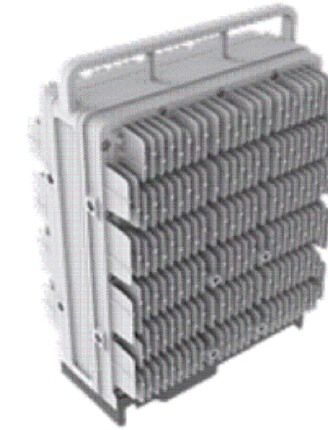
RFS MODEL NO.: APXVAARR24_43-U-NA20

RADOME MATERIAL: FIBERGLASS
 RADOME COLOR: LIGHT GREY
 DIMENSIONS, HxWxD: 95.9"x24"x8.7"
 WEIGHT, W/O MOUNTING KIT: 128 LBS

1 APX ANTENNA DETAIL
 D1 SCALE: NOT TO SCALE



2 ANTENNA/RRU MOUNTING DETAIL
 D1 SCALE: NOT TO SCALE



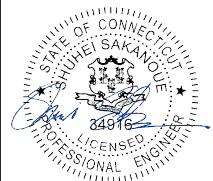
RADIO 4449 B71+B85 SPECIFICATIONS

- HxWxD, (INCHES) : 17.9"x13.2"x9.4"
- WEIGHT (LBS) : 75.0
- COLOR : GRAY

3 4449 B71+B85 RRU DETAIL
 D1 SCALE: NOT TO SCALE

T-Mobile
 T-MOBILE NORTHEAST LLC
 103 MONARCH DRIVE
 LIVERPOOL, NY 13088

INFINIGY & ENGINEERING, PLLC
 6865 DEERPATH ROAD SUITE 152
 ELK RIDGE, MD 21075



07-22-2021

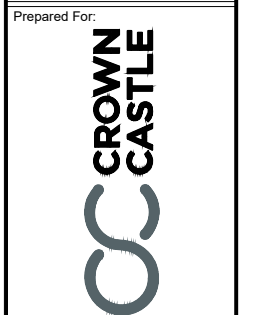
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No.	Submittal / Revision	App'd	Date

Drawn: RCD
 Designed: MRL
 Checked: AD

Project Number: 600-007

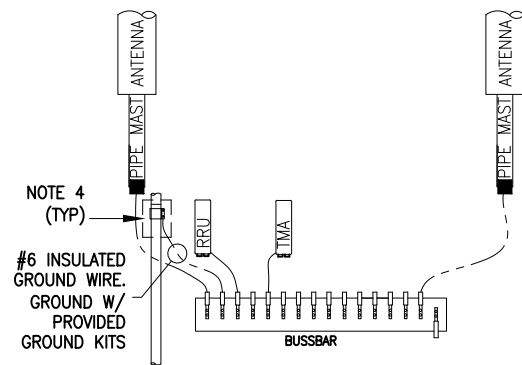
Project Title: CTNL226A
 CROWN OLD LYME
 MONOPOLE
 189 BOSTON POST ROAD
 OLD LYME, CT 06371



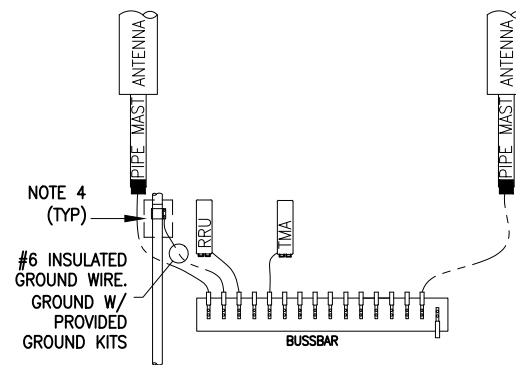
Drawing Title: **EQUIPMENT DETAILS**

Drawing Number: **D1**

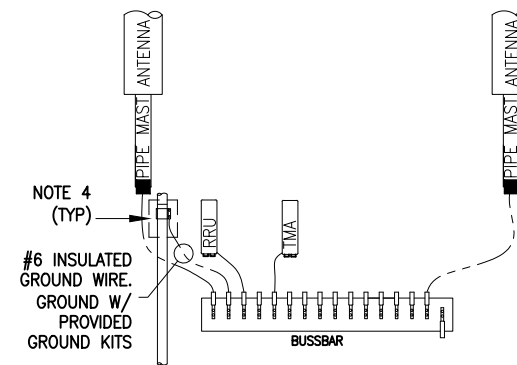
ALPHA SECTOR
(LAYOUT SHOWN GENERICALLY,
SEE ANTENNA ORIENTATION)



BETA SECTOR
(LAYOUT SHOWN GENERICALLY,
SEE ANTENNA ORIENTATION)



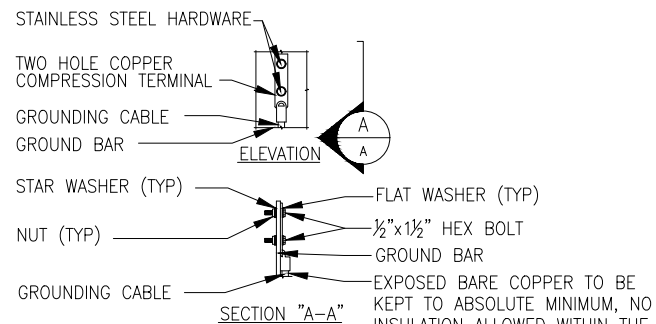
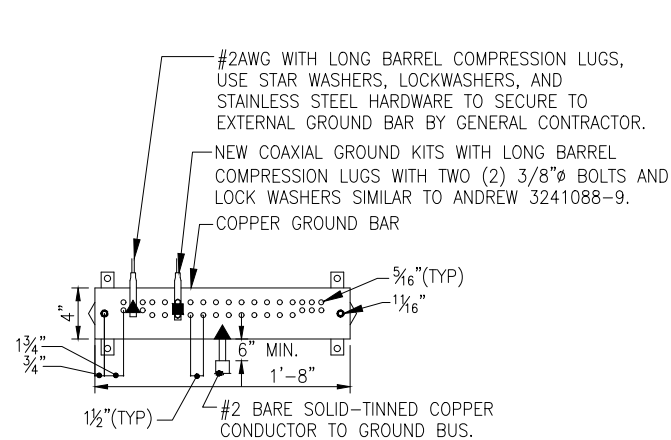
GAMMA SECTOR
(LAYOUT SHOWN GENERICALLY,
SEE ANTENNA ORIENTATION)



NOTES:

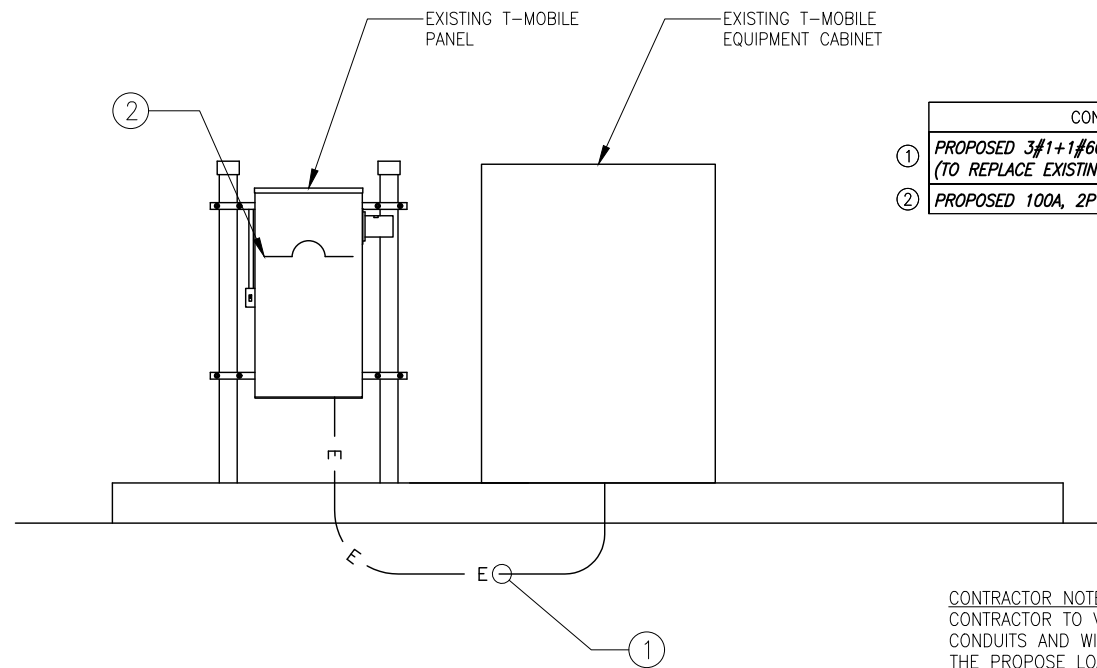
1. PROVIDE #2AWG GROUNDING CONDUCTOR, U.O.N.
2. PROVIDE BONDING AND GROUNDING CONDUCTORS WITH GREEN TYPE THWN INSULATION, U.O.N.
3. PROVIDE SOLID TINNED BARE COPPER WIRE (BCW) GROUNDING CONDUCTOR.
4. PROVIDE STANDARD COAX OR HYBRID CABLE GROUNDING KIT OR FIELD FABRICATE TO SUIT CONDITIONS. TOTAL LENGTH OF GROUNDING CONDUCTOR SHALL NOT EXCEED 10'-0".
5. PROVIDE GROUNDING ELECTRODES QUANTITY, TYPE AND SIZE AS INDICATED ON SITE GROUNDING PLAN.
6. LEAVE GROUND WIRE COILED UP ABOVE GRADE. CAP END OF CONDUIT.
7. ADD COAX OR HYBRID CABLE GROUND KIT CONNECTION TO BUSSBAR WHEN LENGTH OF CABLE TRAY (FROM TOWER OR MONOPOLE TO EQUIPMENT) IS GREATER THAN 20'-0".
8. ADD #2/0 GREEN INSULATED CONDUCTOR BETWEEN CABLE TRAY AND GRIPSTRUT/COVER.
9. BUSSBARS ARE TO BE TINNED COPPER BARS (1/4"x2"x12") MOUNTED ON INSULATORS, U.O.N.
10. GROUND ALL PROPOSED ANTENNAS, DIPLEXERS, TMAS, AND RRUS PER MANU. SPECS.

1 GROUNDING DIAGRAM
SCALE: NOT TO SCALE



- NOTES:**
1. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.
 1. ALL HARDWARE STAINLESS STEEL COAT ALL SURFACES WITH KOPR-SHIELD BEFORE MATING.
 2. FOR GROUND BOND TO STEEL ONLY: INSERT A TOOTH WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH KOPR-SHIELD.
 3. ALL HOLES ARE COUNTERSUNK 1/16".

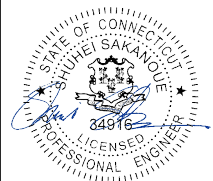
2 GROUND BAR CONNECTION DETAIL
SCALE: NOT TO SCALE



CONDUIT SCHEDULE	
①	PROPOSED 3#1+1#6G IN 1-1/2" CONDUIT (TO REPLACE EXISTING CONDUCTOR AND CONDUIT)
②	PROPOSED 100A, 2P C.B.

CONTRACTOR NOTE:
CONTRACTOR TO VERIFY THAT THE EXISTING CONDUITS AND WIRE SIZES ARE ADEQUATE FOR THE PROPOSED LOADING IN ACCORDANCE WITH NEC AND INCLUDE ELECTRICAL UPGRADES IN THE SCOPE OF WORK AS REQUIRED.

3 ONE LINE DIAGRAM
SCALE: NOT TO SCALE



07-22-2021

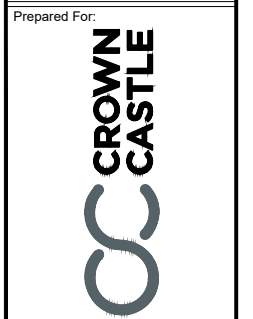
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Drawn: RCD
Designed: MRL
Checked: ADP

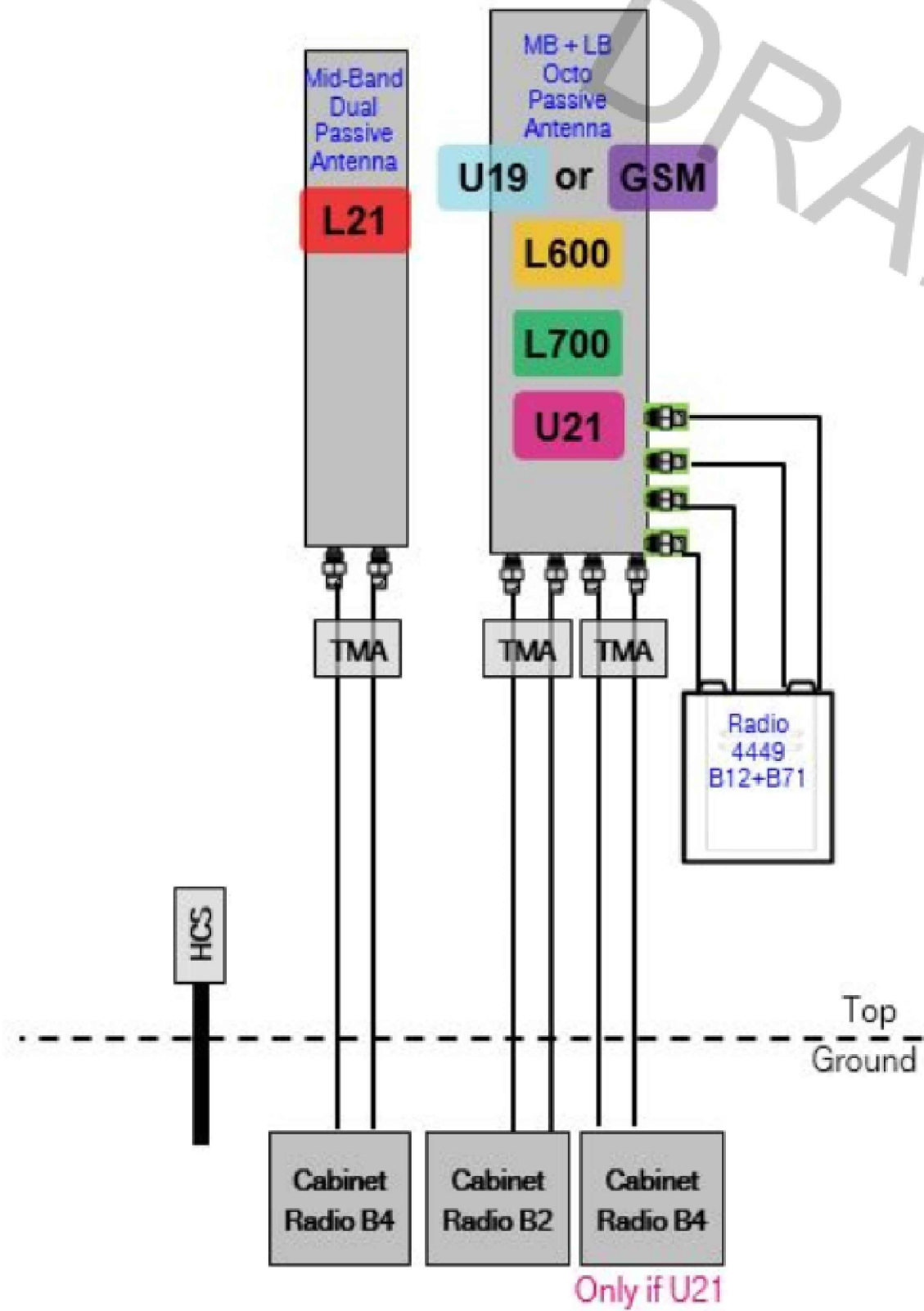
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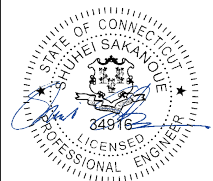


Drawing Title: **GROUNDING & ELECTRICAL DETAILS**

Drawing Number: **E1**



1 RF PLUMBING DIAGRAM
 E2 SCALE: AS NOTED



07-22-2021

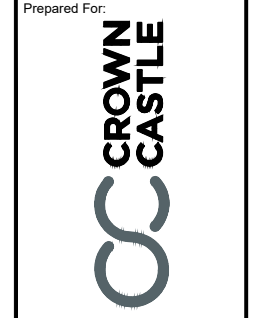
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 MONOPOLE
 189 BOSTON POST ROAD
 OLD LYME, CT 06371



Drawing Title: RF PLUMBING DIAGRAM

Drawing Number: E2

19999

CROWN CASTLE - ETA PROPERTY

3530 TORINGDON WAY, SUITE 300
CHARLOTTE, NC 28277

DATE 7/26/2021

32-61/1110

PAY TO THE ORDER OF Connecticut Siting Council

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DOLLARS

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