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

July 5, 2022

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

RE: **Notice of Exempt Modification for ATT**
Crown #842870; ATT Site ID CTL05099
434 Boston Post Road, Milford, CT 06460
Latitude: 41° 13′ 42.69″ / Longitude: -73° 4′ 12.47″

Dear Ms. Bachman:

AT&T currently maintains twelve (12) antennas at the 141-foot level of the existing 150-foot monopole tower at 434 Boston Post Road, Milford, CT. The tower is owned by Crown Castle USA Inc. and the property is owned by the City of Milford. AT&T now intends to replace twelve (12) antennas, install twelve (12) new antennas and ancillary equipment at the 141-foot level. This modification may include B2, B5, B17, B14, B29, B30, B66 & n77 hardware that is 4G(LTE) and/or 5GNR 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) QUINTEL-QD4616-7 Antennas
(6) Ericsson-AIR6449 B77D (below) + AIR6419 B77G (above) Stacked Antennas
(3) CCI-DMP65R-BU4DA Antennas
(3) Ericsson-4449 B5/B12 RRUs
(1) RAYCAP DC9-48-60-24-8C-EV Squid
(1) 6AWG DC Cable (7/8")
(1) 24-Pair Fiber Cable (3/8")
(3) Mount Pipes w/associated Hardware
(6) Dual RRU Mounts
(3) Y CABLES for Dual Band RRUs

Remove:

(3) POWERWAVE-7770 Antennas
(3) CCI-OPA-65R-LCUU-H4 Antennas
(3) KATHREIN-80010964 Antennas
(3) ANDREW-SBNHH-1D65A Antennas
(3) ERICSSON-RRUS 11 B2 RRUs
(3) ERICSSON-4478 B5 RRUs
(6) POWERWAVE TECH-LGP21401 TMAs
(6) KAELUS-DBCT108F1V92-1 Diplexers
(1) RAYCAP-DC6-48-60-18-8F Squid

(1) 18-Pair Fiber Cable (3/8")
(6) COAX CABLES (1-5/8")

Ground:

Install New:

(3) ERICSSON-RRU 2012 B29
(3) VERTIV 48V Rectifers
(1) VERTIV 48V Battery Rack
(5) East Penn 170AH Battery Strings
(1) 6648 w/XCEDE Cable

Remove:

(3) East Penn 170AH Battery Strings
(1) 5216
(12) POWERWAVE-78210250 Diplexers

The facility was approved by the City of Milford Planning and Zoning Office on February 10, 2000 when a Zoning Permit was issued. This 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 Mayor Benjamin G. Blake for the City of Milford, as both the municipality and property owner, Stephen Harris, Zoning Enforcement Officer, 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, ATT 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: Domenica Tatasciore.

Sincerely,

Domenica Tatasciore
Site Acquisition Specialist
1800 W. Park Drive
Westborough, MA 01581
(508) 621-9161/ Domenica.Tatasciore@crowncastle.com

Attachments
cc:

Mayor Benjamin Blake
City of Milford
110 River Street
Milford, CT 06460
203-783-3201

Stephen Harris, Zoning Enforcement Officer
70 West River Street
Milford, CT 06460
203-783-3245

Crown Castle, Tower Owner

From: TrackingUpdates@fedex.com
To: Tatasciore, Domenica
Subject: FedEx Shipment 777298267353: Your package has been delivered
Date: Wednesday, July 6, 2022 12:18:18 PM

Hi. Your package was delivered Wed, 07/06/2022 at 10:18am.

Delivered to 110 RIVER ST, MILFORD, CT 06460
Received by M.IHELE

OBTAIN PROOF OF DELIVERY

TRACKING NUMBER	777298267353
FROM	Domenica Tatasciore 1800 West Park Drive

	Suite 200 WESTBOROUGH, MA, US, 01581
TO	City of Milford Mayor Benjamin Blake 110 River Street MILFORD, CT, US, 06460
REFERENCE	799001.7680
SHIPPER REFERENCE	799001.7680
SHIP DATE	Tue 7/05/2022 05:06 PM
DELIVERED TO	Receptionist/Front Desk
PACKAGING TYPE	FedEx Pak
ORIGIN	WESTBOROUGH, MA, US, 01581
DESTINATION	MILFORD, CT, US, 06460
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	1.00 LB
SERVICE TYPE	FedEx Priority Overnight

From: TrackingUpdates@fedex.com
To: Tatasciore, Domenica
Subject: FedEx Shipment 777298275568: Your package has been delivered
Date: Wednesday, July 6, 2022 12:18:19 PM

Hi. Your package was delivered Wed, 07/06/2022 at 10:21am.

Delivered to 70 W RIVER ST, MILFORD, CT 06460
Received by C.AFORA

OBTAIN PROOF OF DELIVERY

TRACKING NUMBER 777298275568

FROM Domenica Tatasciore
1800 West Park Drive

	Suite 200 WESTBOROUGH, MA, US, 01581
TO	City of Milford Stephen Harris, ZEO 70 West River Street MILFORD, CT, US, 06460
REFERENCE	799001.7680
SHIPPER REFERENCE	799001.7680
SHIP DATE	Tue 7/05/2022 05:06 PM
DELIVERED TO	Receptionist/Front Desk
PACKAGING TYPE	FedEx Pak
ORIGIN	WESTBOROUGH, MA, US, 01581
DESTINATION	MILFORD, CT, US, 06460
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	1.00 LB
SERVICE TYPE	FedEx Priority Overnight

DATE FILED 10 Feb 00

RECEIPT # exempt

FEE (INCLUDES CZC) $ see above

434

City of Milford, Connecticut

APPLICATION FOR ZONING PERMIT

#430

INSTRUCTIONS: Fill out application in triplicate. A scaled plot plan in duplicate, based on a certified surveyor's plot plan must be submitted with this application showing the purpose of the building and dimensions and the location of all buildings in relation to the street lines, side lot lines and rear lot lines.

ADDRESS OF PROPERTY Boston Post Road ZONE GB

MAP 64 BLOCK 430 PARCEL 6 LOT NO. _____ ADDRESS MAP NO. _____ LOT SIZE 2.73 acres

WIDTH OF STREET RIGHT OF WAY LESS THAN 50 FT.? YES ____ NO X CORNER LOT? YES ____ NO X

IS ANY PORTION OF THE LOT BELOW REGULATORY FLOOD ELEVATION? YES ____ NO X CAM YES ____ NO X

CITY WATER NA PRIVATE WELL* ____ SEWER** NA SEPTIC*** ____ ENGINEERING OFF STREET PERMIT # _____

OWNER City of Milford → AT&T Wireless PCS LLC PHONE (203) 871-4022

ADDRESS OF OWNER c/o Dan Garber 149 Water St Norwalk CT 06854
STREET CITY STATE ZIP CODE

PRESENT USE OF PROPERTY Police Station

PROPOSED CONSTRUCTION NEW X ADDITION _____ ALTERATION _____ REPAIR _____

SIZE/USE OF PROPOSED CONSTRUCTION truss construction antenna - top of antenna & hardware belongs to City total height unknown - with fencing with barb wire enclosure 54' | 54'x64' irregular shape with 20'x12' equip. bldg*

NO. OF STORIES NA HEIGHT 150' REQUIRED PARKING SPACES NC LOT COVERAGE _____%

DATE OF APPROVALS: ZBA NA CASPR _____ SITE PLAN 18 Jan 00 SPECIAL PERMIT _____

EXEMPTION ISSUED NA SUBDIV. NAME _____ HISTORIC DIST. CERT.OF APPROPRIATENESS ____

CERTIFICATION: *(WARNING)* I hereby certify that I am making this application on behalf of and with full authority of the owner of the property and that I am aware of the Zoning Regulations pertinent in this case and that the statements made herein are true and correct. *APPROVAL SHALL BE VALID FOR PLANS AS SUBMITTED.*

THE OCCUPANCY AND USE OF LAND AND BUILDINGS OR STRUCTURES PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY IS PROHIBITED

APPROVED BY:

Peter W. Curtiss AICP
Zoning Official

DATE ISSUED 10 Feb 00

APPLICANT:

NAME Peter H. Maxwell (Please Print)

SIGNATURE _____

ADDRESS URS Greiner Woodward Clyde, 500 Enterprise D
Street

CITY Rocky Hill STATE CT ZIP 06706

TELEPHONE NO. (____) _____

* Permit required from State Health Dept. for apartments, subdivisions, trailer parks, shopping centers and public buildings.

** Permits for sewer connections are granted by Sewer Commission

*** Septic system approvals are granted by Health Department

P&Z OFFICE - **WHITE** BUILDING DEPT. - **YELLOW** APPLICANT'S COPY - **PINK**

ZONPER7/96

RECEIVED
FEB 22 2000
Building Department
Milford, CT

* To be delivered to the site

From: Charles Corell [mailto:ccorell@ci.milford.ct.us]
Sent: Tuesday, February 23, 2016 2:53 PM
To: Goodall, Amanda
Cc: Joseph Griffith; Christine Angelica
Subject: RE: [Milford CT] Cell Tower-434 Boston Post Road

Good afternoon

We located the original file and plans from our archives, there are no conditions in these documents, there is a statement of special inspections and a final statement of special inspections for the construction. Let me know if this helps you at all

Thanks
Charlie Corell

434 BOSTON POST RD

Location	434 BOSTON POST RD	**Mblu**	64/ 930/ 6/A /
Acct#	023341	**Owner**	CITY OF MILFORD
Assessment	$189,000	**Appraisal**	$270,000
PID	101882	**Building Count**	1

Current Value

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2021	$270,000	$0	$270,000
Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2021	$189,000	$0	$189,000

Owner of Record

Owner	CITY OF MILFORD	**Sale Price**	$0
Other	C/O AT&T MBLTY-TAX DEPT	**Certificate**	
Address	754 PEACHTREE ST NE	**Book & Page**	02435/0430
	ATLANTA, GA 30308	**Sale Date**	11/22/1999
		Instrument	

Ownership History

Ownership History					
Owner	**Sale Price**	**Certificate**	**Book & Page**	**Instrument**	**Sale Date**
CITY OF MILFORD	$0		02435/0430		11/22/1999

Building Information

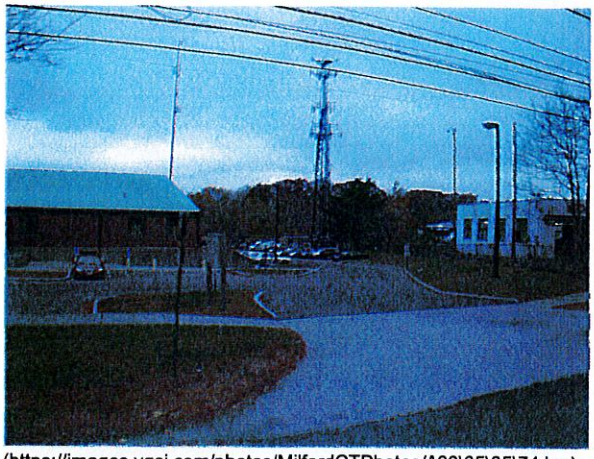
Building 1 : Section 1

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

Building Attributes

Field	Description
Style:	Outbuildings
Model	
Grade:	
Stories:	
Occupancy	
Exterior Wall 1	
Exterior Wall 2	
Roof Structure:	
Roof Cover	
Interior Wall 1	
Interior Wall 2	
Interior Flr 1	
Interior Flr 2	
Heat Fuel	
Heat Type:	
AC Type:	
Total Bedrooms:	
Total Bthrms:	
Total Half Baths:	
Total Xtra Fixtrs:	
Total Rooms:	
Bath Description:	
Kitchen Descrip:	
Num Kitchens	
Cndtn	
Int Condition:	
Solar Panels	
House Generator	
Num Park	
Fireplaces	
Fndtn Cndtn	
Basement	

Building Photo



(https://images.vgsi.com/photos/MilfordCTPhotos/\00\05\05\74.jpg)

Building Layout

Building Layout (ParcelSketch.ashx?pid=101882&bid=100747)

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

Extra Features

Extra Features	Legend
No Data for Extra Features	

Land

Land Use

Use Code	434V
Description	CELL TOWER MDL-00
Zone	
Neighborhood	D
Alt Land Appr	No
Category	

Land Line Valuation

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

Outbuildings

Outbuildings						Legend
Code	**Description**	**Sub Code**	**Sub Description**	**Size**	**Value**	**Bldg #**
CEL1	CEL TWR SITE			1.00 UNITS	$270,000	1

Valuation History

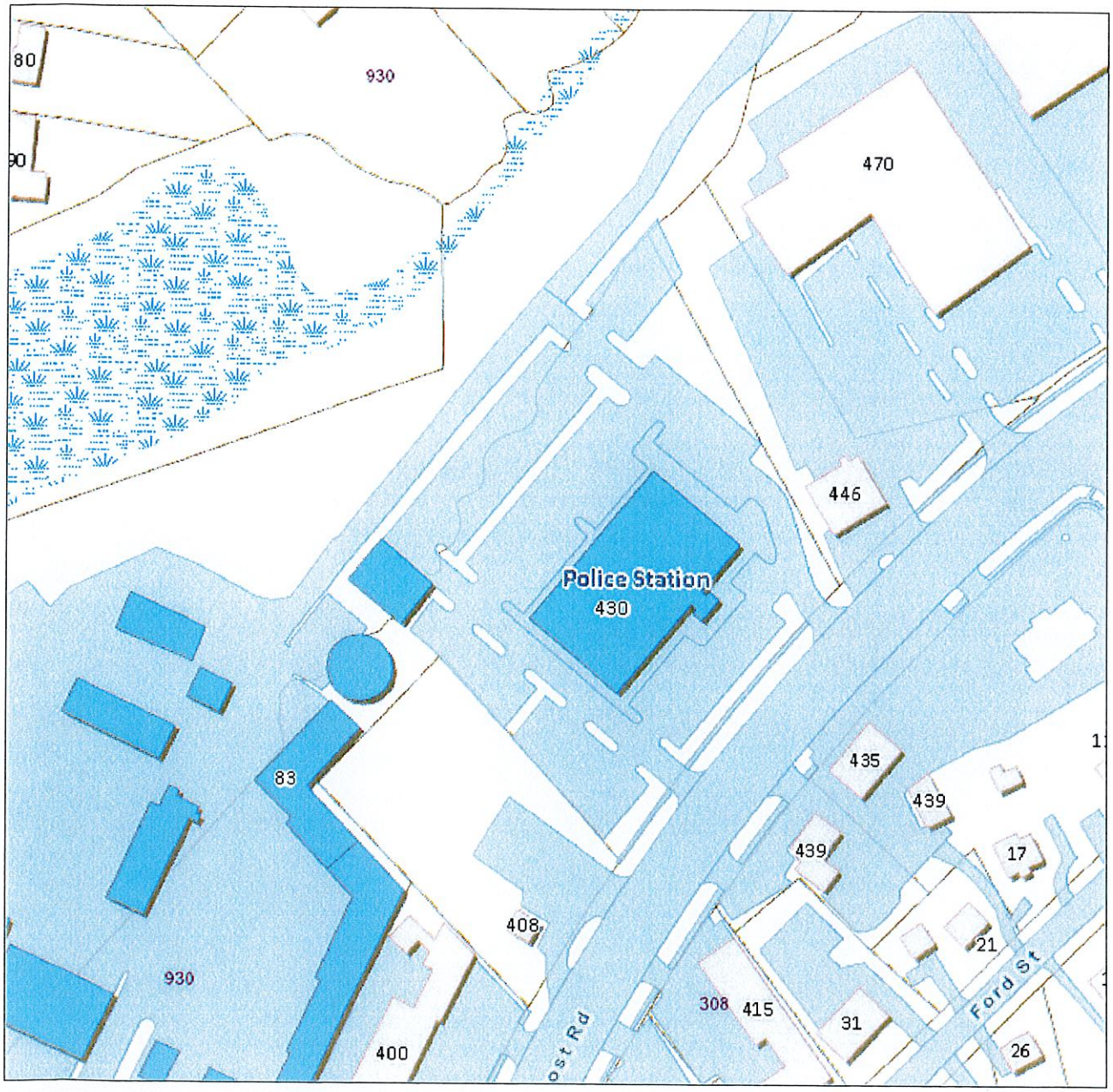
Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2019	$450,000	$0	$450,000
2018	$450,000	$0	$450,000
2017	$450,000	$0	$450,000
2016	$450,000	$0	$450,000

Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2019	$315,000	$0	$315,000
2018	$315,000	$0	$315,000
2017	$315,000	$0	$315,000
2016	$315,000	$0	$315,000

City of Milford

Geographic Information System (GIS)

Date Printed: 7/1/2022



MAP DISCLAIMER - NOTICE OF LIABILITY

This map is for assessment purposes only. It is not for legal description or conveyances. All information is subject to verification by any user. The City of Milford and its mapping contractors assume no legal responsibility for the information contained herein.

Approximate Scale: 1 inch = 150 feet

0 150 Feet

N W E S

Radio Frequency Safety Survey Report Predictive (RFSSRP) Prepared For AT&T

Site Name:	MILFORD
FA#	10071130
USID:	5798
Site ID:	CTL05099
Address:	434 BOSTON POST ROAD MILFORD, CT 06460
County:	NEW HAVEN
Latitude:	41.22874838
Longitude:	-73.07051362
Structure Type:	SELF-SUPPORT
Property Owner:	GOLD COAST REALITY LLC
Pace Job:	MRCTB062582
RFDS Technology:	5G NR 1SR CBAND

Report Information

Report Writer: Sunita Sati

Report Generated Date: 06-28-2022

Compliance Statement

AT&T Mobility Compliance Statement: Based on the information collected, AT&T Mobility will be Compliant when the remediation recommended in section 5 or appropriate remediation determined by AT&T is implemented

Table of Contents

1. Executive Summary

1.1 Site Summary

Max Predictive Spatial Average MPE% & Location on Site (General Public)	499470.0% on Antennas Centerline Level & at AT&T Sec-A antenna no. #A3-2
Max Predictive Spatial Average MPE% at Ground Level (General Public)	1.1%
AT&T Mobility Site Compliance	AT&T Mobility will be Compliant by implementing remediation recommended as per section 5 in this report.

TABLE 1: Site Summary

1.2 Signage Summary (Proposed)

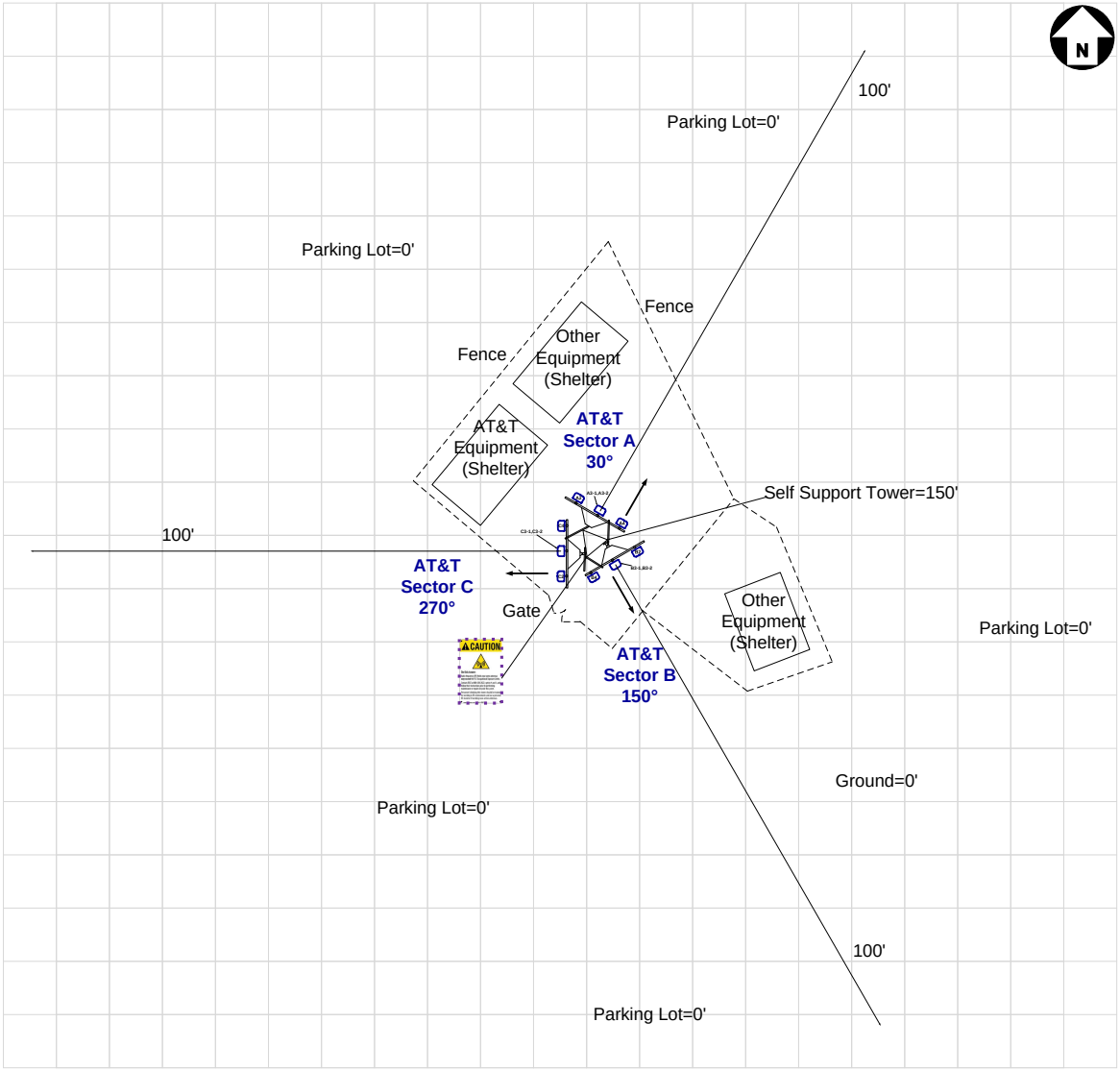
AT&T Signage Locations	Sign Type									
	Safety Instructions	Notice Sign 2	Caution Sign 2	Caution Sign 2B	Caution Sign 2C	Caution 7"x7"	Warning Sign 1B	RF Exposure Map	Lock	Barriers
Access Point(s)				1						
Alpha										
Beta										
Gamma										

TABLE 2: Signage Summary (Proposed)

1.3 List of Documents used to prepare this Report

- *842870 CD*
- *842870 RFDS*

2. Site Scale Map



AT&T Antenna	Proposed	Proposed Signage									
Panel	Barrier	Safety Instructions	Notice 2	Caution 2	Caution 2B	Caution 2C	Caution 7"x7"	Warning 1B	RF Exposure Map	Lock	***Map Scale = 10 ft***
OMNI	Posts										

3. Antenna Inventory

Ant ID	Operator	Antenna Mfg	Antenna Model	Antenna Type	FREQ. (MHz)	TECH.	AZ. (0)	HBW (0)	Antenna Gain (dBd)	Antenna Aperture (ft)	Transmitter Power (Watts)	Total Loss (dB)	Total ERP (Watts)	Total EIRP (Watts)
A2	AT&T	Quintel	QD4616-7	Panel	700	LTE(FN)	30	72	10.15	4.2	120.00	0.5	1107.09	1816.27
A2	AT&T	Quintel	QD4616-7	Panel	700	LTE(B29)	30	72	10.15	4.2	60.00	0.5	553.54	908.14
A2	AT&T	Quintel	QD4616-7	Panel	1900	LTE/5G	30	62	14.55	4.2	120.00	0.5	3049.17	5002.43
A2	AT&T	Quintel	QD4616-7	Panel	2100	LTE/5G	30	63	14.95	4.2	180.00	0.5	5015.02	8227.59
A3-1	AT&T	Ericsson	AIR 6419 B77G^	Panel	3450	5G	30	11	23.5	2.55	108.44*	0	24277.05*	39828.68*
A3-2	AT&T	Ericsson	AIR 6449 B77D^	Panel	3840	5G	30	11	23.5	2.55	108.44*	0	24277.05*	39828.68*
A4	AT&T	CCI	DMP65R-BU4D	Panel	700	LTE(B12)	30	75	10.55	4	120.00	0.5	1213.90	1991.50
A4	AT&T	CCI	DMP65R-BU4D	Panel	850	5G	30	67	10.85	4	120.00	0.5	1300.71	2133.94
A4	AT&T	CCI	DMP65R-BU4D	Panel	2300	LTE	30	57	15.05	4	75.00	0.8	1995.54	3273.87
B2	AT&T	Quintel	QD4616-7	Panel	700	LTE(FN)	150	72	10.15	4.2	120.00	0.5	1107.09	1816.27
B2	AT&T	Quintel	QD4616-7	Panel	700	LTE(B29)	150	72	10.15	4.2	60.00	0.5	553.54	908.14
B2	AT&T	Quintel	QD4616-7	Panel	1900	LTE/5G	150	62	14.55	4.2	120.00	0.5	3049.17	5002.43
B2	AT&T	Quintel	QD4616-7	Panel	2100	LTE/5G	150	63	14.95	4.2	180.00	0.5	5015.02	8227.59
B3-1	AT&T	Ericsson	AIR 6419 B77G^	Panel	3450	5G	150	11	23.5	2.55	108.44*	0	24277.05*	39828.68*
B3-2	AT&T	Ericsson	AIR 6449 B77D^	Panel	3840	5G	150	11	23.5	2.55	108.44*	0	24277.05*	39828.68*
B4	AT&T	CCI	DMP65R-BU4D	Panel	700	LTE(B12)	150	75	10.55	4	120.00	0.5	1213.90	1991.50
B4	AT&T	CCI	DMP65R-BU4D	Panel	850	5G	150	67	10.85	4	120.00	0.5	1300.71	2133.94
B4	AT&T	CCI	DMP65R-BU4D	Panel	2300	LTE	150	57	15.05	4	75.00	0.5	2138.26	3508.01
C2	AT&T	Quintel	QD4616-7	Panel	700	LTE(FN)	270	72	10.15	4.2	120.00	0.5	1107.09	1816.27
C2	AT&T	Quintel	QD4616-7	Panel	700	LTE(B29)	270	72	10.15	4.2	60.00	0.5	553.54	908.14
C2	AT&T	Quintel	QD4616-7	Panel	1900	LTE/5G	270	62	14.55	4.2	120.00	0.5	3049.17	5002.43
C2	AT&T	Quintel	QD4616-7	Panel	2100	LTE/5G	270	63	14.95	4.2	180.00	0.5	5015.02	8227.59
C3-1	AT&T	Ericsson	AIR 6419 B77G^	Panel	3450	5G	270	11	23.5	2.55	108.44*	0	24277.05*	39828.68*
C3-2	AT&T	Ericsson	AIR 6449 B77D^	Panel	3840	5G	270	11	23.5	2.55	108.44*	0	24277.05*	39828.68*
C4	AT&T	CCI	DMP65R-BU4D	Panel	700	LTE(B12)	270	75	10.55	4	120.00	0.5	1213.90	1991.50
C4	AT&T	CCI	DMP65R-BU4D	Panel	850	5G	270	67	10.85	4	120.00	0.5	1300.71	2133.94
C4	AT&T	CCI	DMP65R-BU4D	Panel	2300	LTE	270	57	15.05	4	75.00	0.5	2138.26	3508.01

Table 3.1: Antenna Inventory Table

Note: ^ **Mechanical Tilt value of "0°" MUST be retained for C-BAND and/or DoD AAS antenna(s) at all times to ensure that "EME (Predictive) Study" shall remain valid.**

* 75% TDD duty Cycle, 1.5dB Power Tolerance & 0.32 Power Reduction factor[1] are used to calculate Transmitter Power & ERP/EiRP

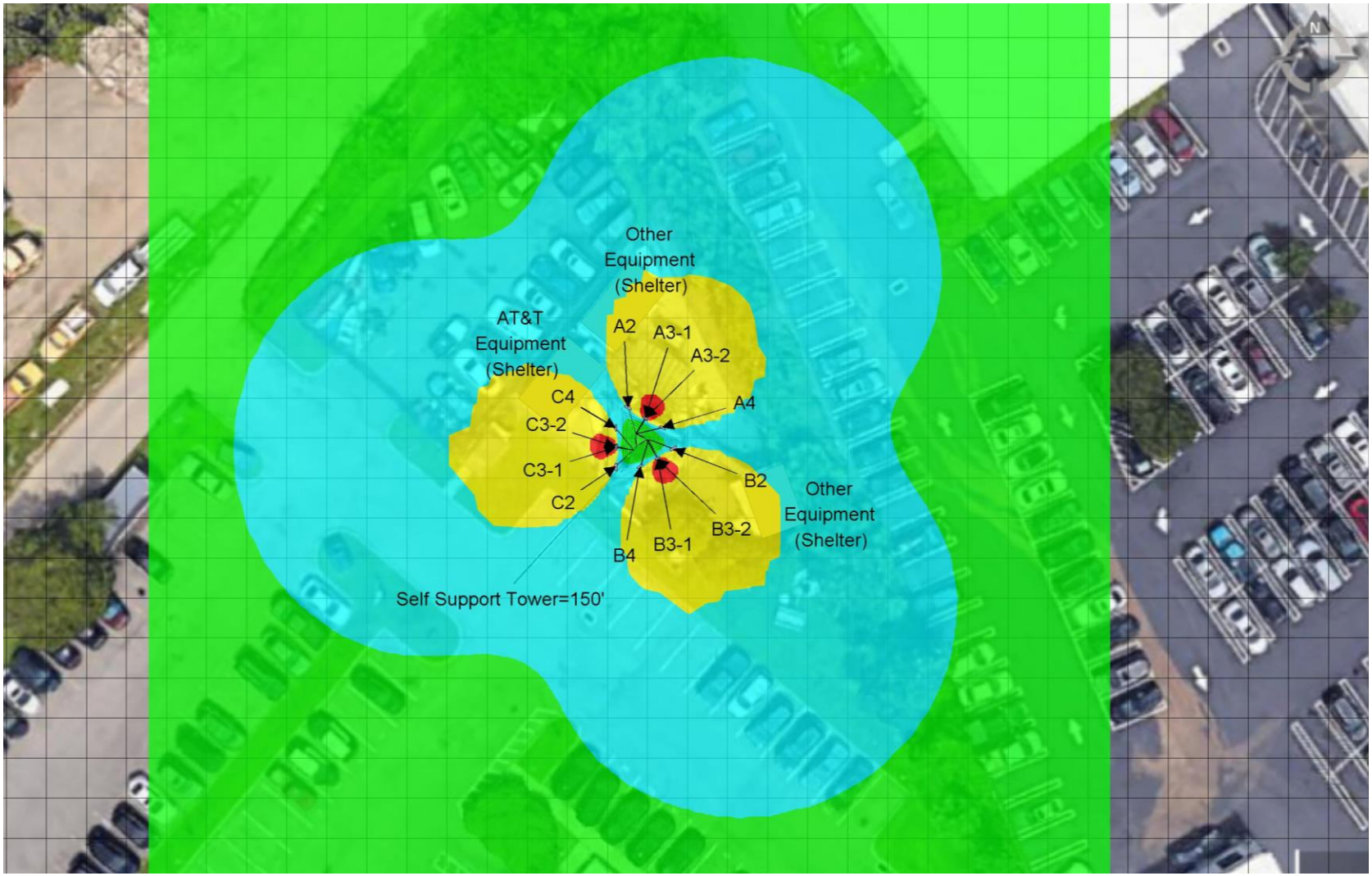
Antenna Heights (Z)

Ant ID	Operator	Antenna Radiation Centerline	Z-Height from Ground
A2	AT&T	141.00	138.90
A3-1	AT&T	142.75	141.48
A3-2	AT&T	139.25	137.98
A4	AT&T	141.00	139.00
B2	AT&T	141.00	138.90
B3-1	AT&T	142.75	141.48
B3-2	AT&T	139.25	137.98
B4	AT&T	141.00	139.00
C2	AT&T	141.00	138.90
C3-1	AT&T	142.75	141.48
C3-2	AT&T	139.25	137.98
C4	AT&T	141.00	139.00

Table 3.2: Antenna Height(s) Summary Table

4. Predicted Emission

4.1 Predictive Cumulative MPE Contribution from All Sources at Antennas Centerline Level (141 ft.)



Max. Predictive Spatial Average MPE% = **499470.0%**

Proposed Barrier
Proposed Posts

% of FCC General Public Exposure Limit (Predictive Spatial Average)

Non-Simulated	0-1	1-100	100-500	500-5000	>5000

Map Scale = 10 ft

4.2 Predictive Cumulative MPE Contribution from All Sources at Ground Level (0 ft.)

Max. Predictive Spatial Average MPE% = **1.1%**

Proposed Barrier
Proposed Posts

% of FCC General Public Exposure Limit (Predictive Spatial Average)

Non-Simulated	0-1	1-100	100-500	500-5000	>5000

Map Scale = 10 ft

5. Statement of Compliance

5.1 Statement of AT&T Mobility Compliance

At the time of our Analysis, AT&T Mobility is required to take action to fulfill their Obligations to comply with the FCC's mandate as defined in OET-65

Recommendations

AT&T Alpha Sector:

- No Action Required

AT&T Beta Sector:

- No Action Required

AT&T Gamma Sector:

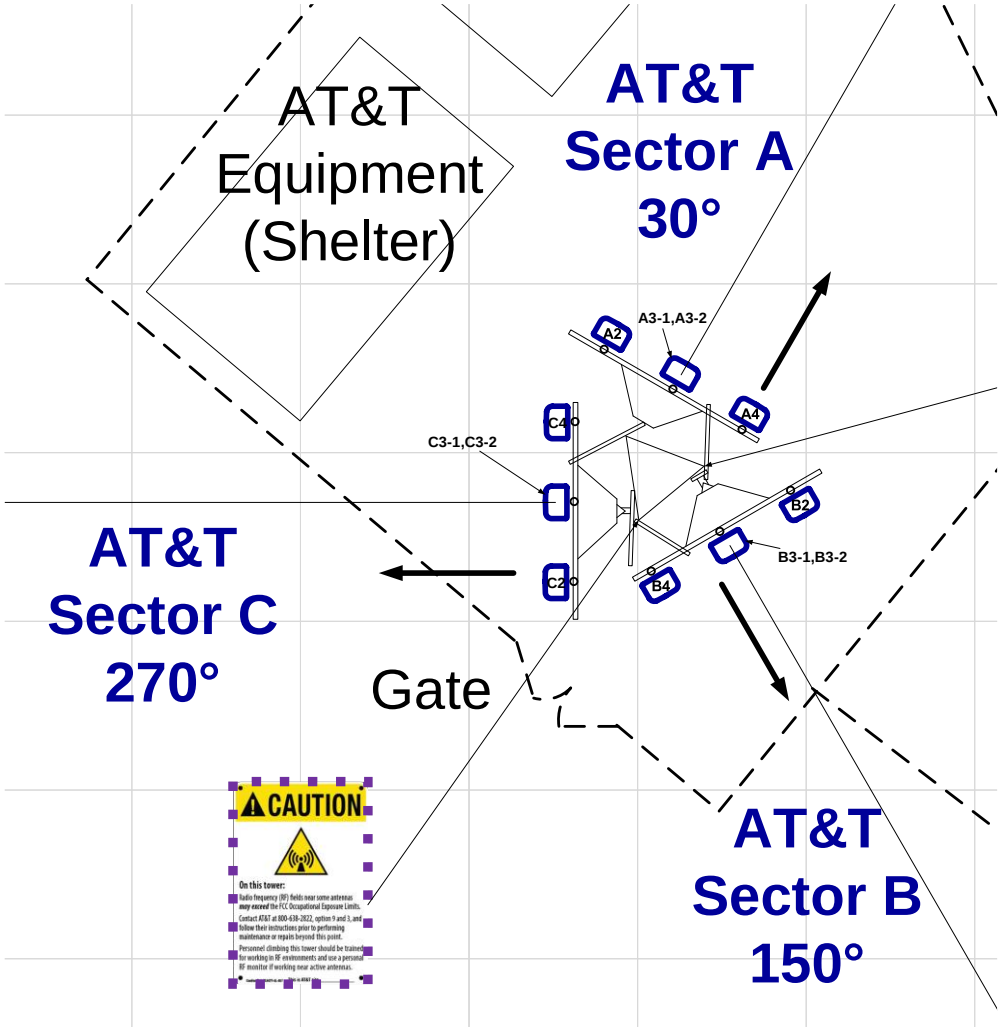
- No Action Required

Self-Support Tower:

- One Caution 2B Sign to be posted on the Tower at climbing access, facing outwards so approaching people can see as shown in "Recommendations Map – Detailed View" on page 10. (1 Total Sign)

Recommendations Map – Detailed View

AT&T Alpha, Beta & Gamma Sectors



AT&T Antenna		Proposed		Proposed Signage									
	Panel		Barrier	Safety Instructions	Notice 2	Caution 2	Caution 2B	Caution 2C	Caution 7"x7"	Warning 1B	RF Exposure Map	Lock	*Map Scale = 10 ft*
	OMNI		Posts										

Appendix A – Statement of Limiting Conditions

General Model Assumptions

In this site compliance report, it is assumed that all antennas are operating at full power at all times. AT&T has further recommended to assume a 75% duty cycle of maximum radiated power for all LTE & 5G carriers (& consider 100% duty cycle for all UMTS carriers).

In this site compliance report, it is assumed that Mechanical Tilt value of "0°" MUST be retained for C-BAND and/or DoD AAS^ antenna(s) at all times to ensure that "EME (Predictive) Study" shall remain valid.

AT&T recommended to consider - For C-BAND and/or DoD AAS^ antenna(s) 75% TDD duty Cycle, 1.5dB Power Tolerance & 0.32 Power Reduction factor[1] are used to calculate Transmitter Power & ERP/EiRP.

AT&T recommended to use worst-case tilts for the simulations.

*[1] **Power Reduction Factor**: IEC Standard 62232: 2017 allows for a statistically conservative power density model to more realistically define the RF exposure area. AT&T recommends a "0.32" factor to calculate the "Actual Maximum" (time averaged) power value, which accounts for "Beam Scanning," "Scheduling," and "RBS Utilization" This recommended value is a conservative figure modelled and supported by other vendors and through measurements published in scientific articles and white papers by IEEE and others. Those publication are listed below:*

1. IEEE Access, Time-Averaged Realistic Maximum Power Levels for the Assessment of RF Exposure for 5G Radio Base Stations Using Massive MIMO (Published Sept. 18, 2017 / BJÖRN THORS, ANDERS FURUSKÄR, DAVIDE COLOMBI, AND CHRISTER TÖRNEVIK)
2. IEEE Explore, A Statistical Approach for RF Exposure Compliance Boundary Assessment in Massive MIMO Systems (Published Jan. 25, 2018 / Paolo Baracca, Andreas Weber, Thorsten Wild, Christophe Grangeat)
3. IEEE Access, In-situ Measurement Methodology for the Assessment of 5G NR Massive MIMO Base Station Exposure at Sub-6 GHz Frequencies (Published Dec. 20, 2019 / SAM AERTS, LEEN VERLOOCK, MATTHIAS VAN DEN BOSSCHE, DAVIDE COLOMBI, LUC MARTENS, CHRISTER TÖRNEVIK AND WOUT JOSEPH)
4. Applied Sciences, Analysis of the Actual Power and EMF Exposure from Base Stations in a Commercial 5G Network (Published July 30, 2020 / Davide Colombi, Paramananda Joshi, Bo Xu, Fatemeh Ghasemifard, Vignesh Narasaraju and Christer Törnevik)
5. Ofcom Technical Report, Electromagnetic Field (EMF) measurements near 5G mobile phone base stations (Published Feb. 21, 2020 / Davide Colombi, Paramananda Joshi, Bo Xu, Fatemeh Ghasemifard, Vignesh Narasaraju and Christer Törnevik)

MobileComm believes these areas to be safe for entry by occupationally trained personnel utilizing appropriate personal protective equipment (in most cases, a personal monitor). Thus, at any time, if power density measurements were made, we believe the real time measurements would indicate levels below those depicted in the RF emission diagram(s) in this report. By modelling in this way, MobileComm has conservatively shown exclusion areas – areas that should not be entered without the use of a personal monitor, carriers reducing power, or performing real-time measurements to indicate real-time exposure levels.

Use of Generic Antennas

For the purposes of this report, the use of "Generic" as an antenna model, or "Other Carrier" for an operator means the information about a carrier, their FCC license and/or antenna information was not provided and could not be obtained while on site. In the event of unknown information, MobileComm will use our industry specific knowledge of equipment, antenna models, and transmit power to model the site. Information about similar facilities is used when the service is identified and associated with a particular antenna. If no information is available regarding the transmitting service associated with an unidentified antenna, using the antenna manufacturer's published data regarding the antenna's physical characteristics makes more conservative assumptions.

Where the frequency is unknown, MobileComm uses the closest frequency in the antenna's range that corresponds to the highest Maximum Exposure Limit (MPE), resulting in a conservative analysis.

Appendix B – FCC Guidelines and Emissions Threshold Limits

All power density values used in this report were analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter (µW/cm2).The number of µW/cm2 calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

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

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

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter (µW/cm2). The general population exposure limit for the 700 and 800 MHz Bands is approximately 467 µW/cm2 and 567 µW/cm2 respectively, and the general population exposure limit for the 1900 MHz PCS and 2100 MHz AWS bands is 1000 µW/cm2. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.

Occupational/Controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure, have been properly trained in RF safety and can exercise control over their exposure. Occupational/Controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure, have been trained in RF safety and can exercise control over his or her exposure by leaving the area or by some other appropriate means. The Occupational/Controlled exposure limits all utilized frequency bands is five (5) times the FCC's General Public / Uncontrolled exposure limit.

Additional details can be found in FCC OET 65.

Table 1: Limits for Maximum Permissible Exposure (MPE)				
(A) Limits for Occupational/Controlled Exposure				
Frequency Range (MHz)	**Electric Field Strength (E) (V/m)**	**Magnetic Field Strength (H) (A/m)**	**Power Density (S) (mW/cm^2)**	**Averaging Time $[E]^2$, $[H]^2$, or S (minutes)**
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	($900/f^2$)*	6
30-300	61.4	0.163	1.0	6
300-I,500	--	--	f/300	6
1,500-100,000	--	--	5	6
(B) Limits for General Public/Uncontrolled Exposure				
Frequency Range (MHz)	**Electric Field Strength (E) (V/m)**	**Magnetic Field Strength (H) (A/m)**	**Power Density (S) (mW/cm^2)**	**Averaging Time $[E]^2$, $[H]^2$, or S (minutes)**
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	($180/f^2$)*	30
30-300	27.5	0.073	0.2	30
300-I,500	--	--	f/1,500	30
1,500-100,000	--	--	1.0	30

Appendix C – Rules & Regulations

Explanation of Applicable Rules and Regulations

FCC has set forth guidelines in OET Bulletin 65 for human exposure to radio frequency electromagnetic fields. Currently, there are two different levels of MPE - General Public MPE and Occupational MPE. An individual classified as Occupational can be defined as an individual who has received appropriate RF training and meets the conditions outlined below. General Public is defined as anyone who does not meet the conditions of being Occupational. FCC Rules and Regulations define compliance in terms of total exposure to total RF energy, regardless of location of or proximity to the sources of energy.

It is the responsibility of all licensees to ensure these guidelines are maintained at all times. It is the ongoing responsibility of all licensees composing the site to maintain ongoing compliance with FCC rules and regulations.

A building owner or site manager can use this report as part of an overall RF Health and Safety Policy. It is important for building owners/site managers to identify areas in excess of the General Population MPE and ensure that only persons qualified as Occupational are granted access to those areas.

Occupational Environment Explained

The FCC definition of Occupational exposure limits apply to persons who:

- *are exposed to RF energy as a consequence of their employment;*
- *have been made aware of the possibility of exposure; and*
- *can exercise control over their exposure.*

FCC guidelines go further to state that persons must complete RF Safety Awareness training and must be trained in the use of appropriate personal protective equipment.

In order to consider this site an Occupational Environment, the site must be controlled to prevent access by any individuals classified as the General Public. Compliance is also maintained when any non-occupational individuals (the General Public) are prevented from accessing areas indicated as Red or Yellow in the attached RF Emissions diagram. In addition, a person must be aware of the RF environment into which they are entering. This can be accomplished by an RF Safety Awareness class, and by appropriate written documentation such as this Site Compliance Report.

Appendix D – General Safety Recommendations

The following are general recommendations appropriate for any site with accessible areas in excess of 100% General Public MPE. These recommendations are not specific to this site. These are safety recommendations appropriate for typical site management, building management, and other tenant operations.

1. All individuals needing access to the main site should be instructed to read and obey all posted placards and signs.

2. The site should be routinely inspected and this or similar report updated with the addition of any antennas or upon any changes to the RF environment including:

- *adding new antennas that may have been located on the site*
- *removing of any existing antennas*
- *changes in the radiating power or number of RF emitters*

3. Post the appropriate SAFETY INSTRUCTIONS, NOTICE, CAUTION & WARNING sign at the main site access point(s) and other locations as required. Note: Please refer to RF Exposure Diagrams in the report section above, to inform everyone who has access to this site that beyond posted signs there may be levels in excess of the limits prescribed by the FCC. The signs below are examples of signs meeting FCC guidelines.

4. Ensure that the site door remains locked (or appropriately controlled) to deny access to the general public if deemed as policy by the building/site owner.

5. For a General Public environment the five color levels identified in measured RF emission diagram can be interpreted in the following manner:

- *White represents areas predicted to be greater than or equal to 0% and less than 1% of the MPE general public limits*
- *Green represents areas predicted to be greater than or equal to 1% and less than 100% of the MPE general public limits*
- *Blue represents areas predicted to be greater than or equal to 100% and lesser than 500% of the MPE general public limits.*
- *Yellow represents areas predicted to be greater than or equal to 500% and lesser than 5000% of the MPE general public limits.*
- *Red areas indicates predicted levels greater than or equal to 5000% of the MPE general public limits.*

Appendix E – References

1 - FCC Definition

FCC defines an Occupational or Controlled environment as one where persons are exposed to RF fields as a consequence of their employment and where those persons exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Typical criteria for an Occupational or Controlled environment is restricted access (i.e. locked doors, gates, etc.) to areas where antennas are located coupled with proper RF warning signage.

FCC defines a site as a General Public or Uncontrolled environment when human exposure to RF fields occurs to the general public or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over the exposure. Typical criteria for a General Public or Uncontrolled environment are unrestricted access (i.e. unlocked or no restrictions) to areas where antennas are located without proper RF warning signage being posted.

2 - Physical Testing measurement procedure and Tools

The Narda Broadband Field Meter NBM-550 can make rapid conformance measurements with evaluation in the time domain when used in conjunction EA5091 probe. This probe is a so-called Shaped Probe, i.e. it is frequency weighted so that it automatically takes account of the FCC Occupational limit values. To collect data, the probe is pointed towards the potential source(s) of EME radiation and moved slowly from ground level up to slightly above head height (approx. 6 ft).

Spatial Average Measurement A technique used to average a minimum of ten (10) measurements taken in a ten (10) second interval from zero (0) to six (6) feet. This measurement is intended to model the average energy an average sized human body will absorb while present in an electromagnetic field of energy.

3 - Site Safety Procedures

The following items are general safety recommendations that should be administered on a site by site basis as needed by the carrier.

General Maintenance Work: *Any maintenance personnel required to work immediately in front of antennas and / or in areas indicated as above 100% of the Occupational MPE limits should coordinate with the wireless operators to disable transmitters during their work activities.*

Training and Qualification Verification: *All personnel accessing areas indicated as exceeding the General Population MPE limits should have a basic understanding of EME awareness and RF Safety procedures when working around transmitting antennas. Awareness training increases a workers understanding to potential RF exposure scenarios. Awareness can be achieved in a number of ways (e.g. videos, formal classroom lecture or internet based courses).*

Physical Access Control: *Access restrictions to transmitting antennas locations is the primary element in a site safety plan. Examples of access restrictions are as follows:*

- *Locked door or gate*
- *Alarmed door*
- *Locked ladder access*
- *Restrictive Barrier at antenna locations (e.g. Chain link with posted RF Sign)*

RF Signage: *Everyone should obey all posted signs at all times. RF signs play an important role in properly warning a worker prior to entering into a potential RF Exposure area.*

Assume all antennas are active: *Due to the nature of telecommunications transmissions, an antenna transmits intermittently. Always assume an antenna is transmitting. Never stop in front of an antenna. If you have to pass by an antenna, move through as quickly and safely as possible thereby reducing any exposure to a minimum.*

Maintain a 3 foot clearance from all antennas: *There is a direct correlation between the strength of an EME field and the distance from the transmitting antenna. The further away from an antenna, the lower the corresponding EME field is.*

Rooftop RF Emissions Diagram: *Section 4 of this report contains an RF Emissions Diagram that outlines various theoretical Maximum Permissible Exposure (MPE) areas on the rooftop. This analysis is all theoretical and assumes a duty cycle of 75% for each transmitting antenna at full power. This analysis is a worst case scenario. This analysis is based on one of two access control criteria: General Public criteria means the access to the site is uncontrolled and anyone can gain access. Occupational criteria means the access is restricted and only properly trained individuals can gain access to the antenna locations.*

4 - Definitions

Compliance- *The determination of whether a site is safe or not with regards to Human Exposure to Radio Frequency Radiation from transmitting antennas.*

Decibel (dB) – *A unit for measuring power or strength of a signal.*

Duty Cycle – *The percent of pulse duration to the pulse period of a periodic pulse train. Also, may be a measure of the temporal transmission characteristic of an intermittently transmitting RF source such as a paging antenna by dividing average transmission duration by the average period for transmission. A duty cycle of 75% corresponds to continuous operation.*

Effective (or Equivalent) Isotropic Radiated Power (EIRP) – *The product of the power supplied to the antenna and the antenna gain in a given direction relative to an isotropic antenna, this product is divided by the cable losses*

Effective Radiated Power (ERP) – *In a given direction, the relative gain of a transmitting antenna with respect to the maximum directivity of a half wave dipole multiplied by the net power accepted by the antenna from the connecting transmitter.*

Gain (of an antenna in dbd) – *The ratio of the maximum intensity in a given direction to the maximum radiation in the same direction from a reference dipole. Gain is a measure of the relative efficiency of a directional antennas as compared to a reference dipole.*

General Population/Uncontrolled Environment – *Defined by the FCC, as an area where RFR exposure may occur to persons who are unaware of the potential for exposure and who have no control of their exposure. General Population is also referenced as General Public.*

Generic Antenna – *For the purposes of this report, the use of "Generic" as an antenna model means the antenna information was not provided and could not be obtained while on site. In the event of unknown information, MobileComm will use our industry specific knowledge of antenna models to select a worst case scenario antenna to model the site.*

Isotropic Antenna – *An antenna that is completely non-directional. In other words, an antenna that radiates energy equally in all directions.*

Maximum Measurement – *This measurement represents the single largest measurement recorded when performing a spatial average measurement.*

Maximum Exposure Limit (MPE) – *The RMS and peak electric and magnetic field strength, their squares, or the plane-wave equivalent power densities associated with these fields to which a person may be exposed without harmful effect and with acceptable safety factor.*

Occupational/Controlled Environment – *Defined by the FCC, as an area where Radio Frequency Radiation (RFR) exposure may occur to persons who are aware of the potential for exposure as a condition of employment or specific activity and can exercise control over their exposure.*

Radio Frequency Radiation – *Electromagnetic waves that are propagated from antennas through space.*

Spatial Average Measurement – *A technique used to average a minimum of ten (10) measurements taken in a ten (10) second interval from zero (0) to six (6) feet. This measurement is intended to model the average energy an average sized human body will absorb while present in an electromagnetic field of energy.*

Transmitter Power Output (TPO) – *The radio frequency output power of a transmitter's final radio frequency stage as measured at the output terminal while connected to a load.*

Appendix F – Proprietary Statement

This report was prepared for the use of AT&T Mobility, LLC to meet requirements specified in AT&T's corporate RF safety guidelines. It was performed in accordance with generally accepted practices of other consultants undertaking similar studies at the same time and in the same locale under like circumstances. The conclusions provided by MobileComm are based solely on the information provided by AT&T Mobility and all observations in this report are valid on the date of the investigation. Any additional information that becomes available concerning the site should be provided to MobileComm so that our conclusions may be revised and modified, if necessary. This report has been prepared in accordance with Standard Conditions for Engagement and authorized proposal, both of which are integral parts of this report. No other warranty, expressed or implied, is made.

April 28, 2022

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

Subject:	**Mount Analysis**	
Carrier Designation:	***AT&T Mobility* Reconfiguration**	
	Site Number:	CT5099
	Site Name:	Milford
	FA Number:	10071130
Crown Castle Designation:	**BU Number:**	842870
	Site Name:	Milford
	JDE Job Number:	649398
	Order Number:	556511 Rev. 0
Engineering Firm Designation:	**TEP Project Number:**	217616.688940
Site Data:	**434 Boston Post Road, Milford, New Haven County, CT 06460** **Latitude *41° 13' 42.69"*, Longitude *-73° 4' 12.47"***	
Structure Information:	**Tower Height & Type:**	150.0±ft Self-Supporting Tower
	Mount Elevation:	141.0 ft
	Mount Width & Type:	12.5 ft Sector Mount

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

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

Sector Mount **Sufficient**

The analysis has been performed in accordance with the 2018 International Building Code based upon an ultimate 3-second gust wind speed of 120 mph. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Mount analysis prepared by: Gautam Sopal, E.I. / TWC

Respectfully submitted by:

4/28/22

Graham M. Andres, P.E.
Executive Vice-President
(919) 661-6351
gandres@tepgroup.net

TABLE OF CONTENTS

1) INTRODUCTION

This is an existing, 3-sector, 12.5' Sector mount designed by Site Pro 1. The mount is installed at the 141.0-ft elevation on the 150.0± ft Monopole.

2) ANALYSIS CRITERIA

Building Code:	2018 IBC
TIA-222 Revision:	TIA-222-H
Risk Category:	II
Ultimate Wind Speed:	120mph
Exposure Category:	C
Topographic Factor at Base:	1
Ice Thickness:	1 in
Wind Speed with Ice:	50 mph
Seismic S_s:	0.202
Seismic S_1:	0.053
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
144.0	144.0	3	Ericsson	RRUS 32 B2	-
		1	Raycap	DC6-48-60-18-8F	
141.0	144.0	3	Ericsson	RRUS 32 B30	(3) Sector Mount
		3	Ericsson	RRUS 4478 B14	
		1	Raycap	DC6-48-60-18-8F	
	143.0	3	Ericsson	AIR 6419 B77G_CCIV3	
	141.0	3	CCI Antennas	DMP65R-BU4D	
		3	Quintel Technology	QD4616-7	
		2	Commscope	WCS-IMFQ-AMT	
		3	Ericsson	RRUS 4426 B66	
		3	Ericsson	RRUS 4449 B5/B12	
		1	Raycap	DC9-48-60-24-8C-EV_CCIV2	
	139.0	3	Ericsson	AIR 6449 B77D_CCVI2	

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

Document	Remarks	Reference	Source
RFDS	AT&T Mobility	RFDS ID: 4392769	CCIsites
Loading Application	AT&T Mobility	Order 556511 Rev. 0	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 antenna mounting system and calculate member stresses for various loading cases.

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

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

In addition, this analysis is in accordance with AT&T's *Mount Technical Guidance - R16*.

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 (Sector Mount)

Notes	Component	Critical Member	Centerline (ft)	% Capacity	Pass / Fail
1	Face Horizontal	FFTH-1	141.0	36.6	Pass
1	Support Horizontal	SF5-TH	141.0	36.1	Pass
1	Support Vertical	SF-4 V1	141.0	13.1	Pass
1	Support Diagonal	SF2-D4	141.0	52.7	Pass
1	Mount Pipe	MP-1	141.0	42.0	Pass
1	Stab Arm	SA-1	141.0	5.6	Pass
1	Tower Bracing	TS-2	141.0	52.2	Pass

Structure Rating (max from all components) =	52.7%

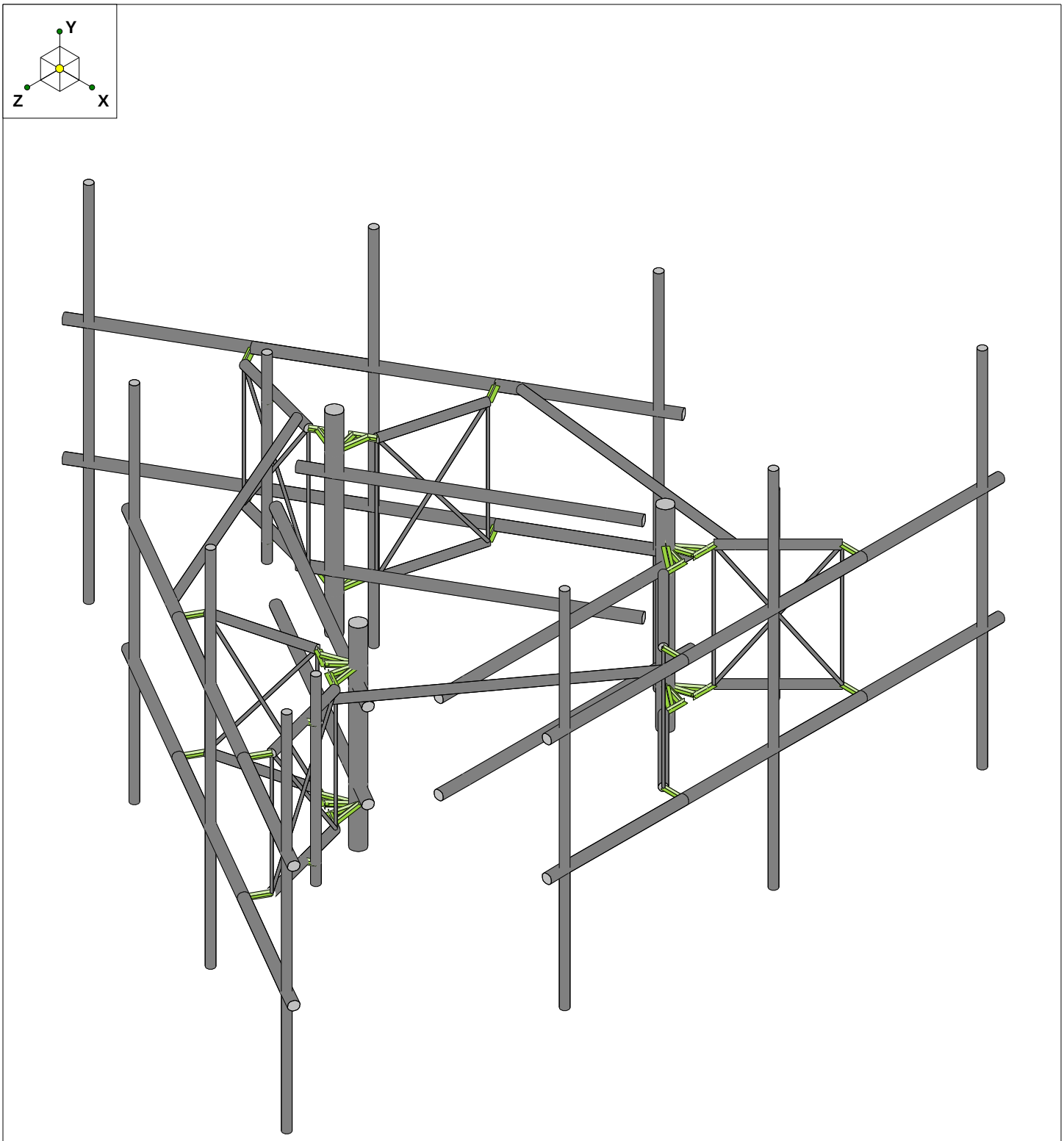
Notes:
1) See additional documentation in “Appendix C - Software Analysis Output” for calculations supporting the % capacity consumed.

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 it’s connection have sufficient capacity to carry the proposed loading configuration. No modifications are required at this time.

APPENDIX A

WIRE FRAME AND RENDERED MODELS



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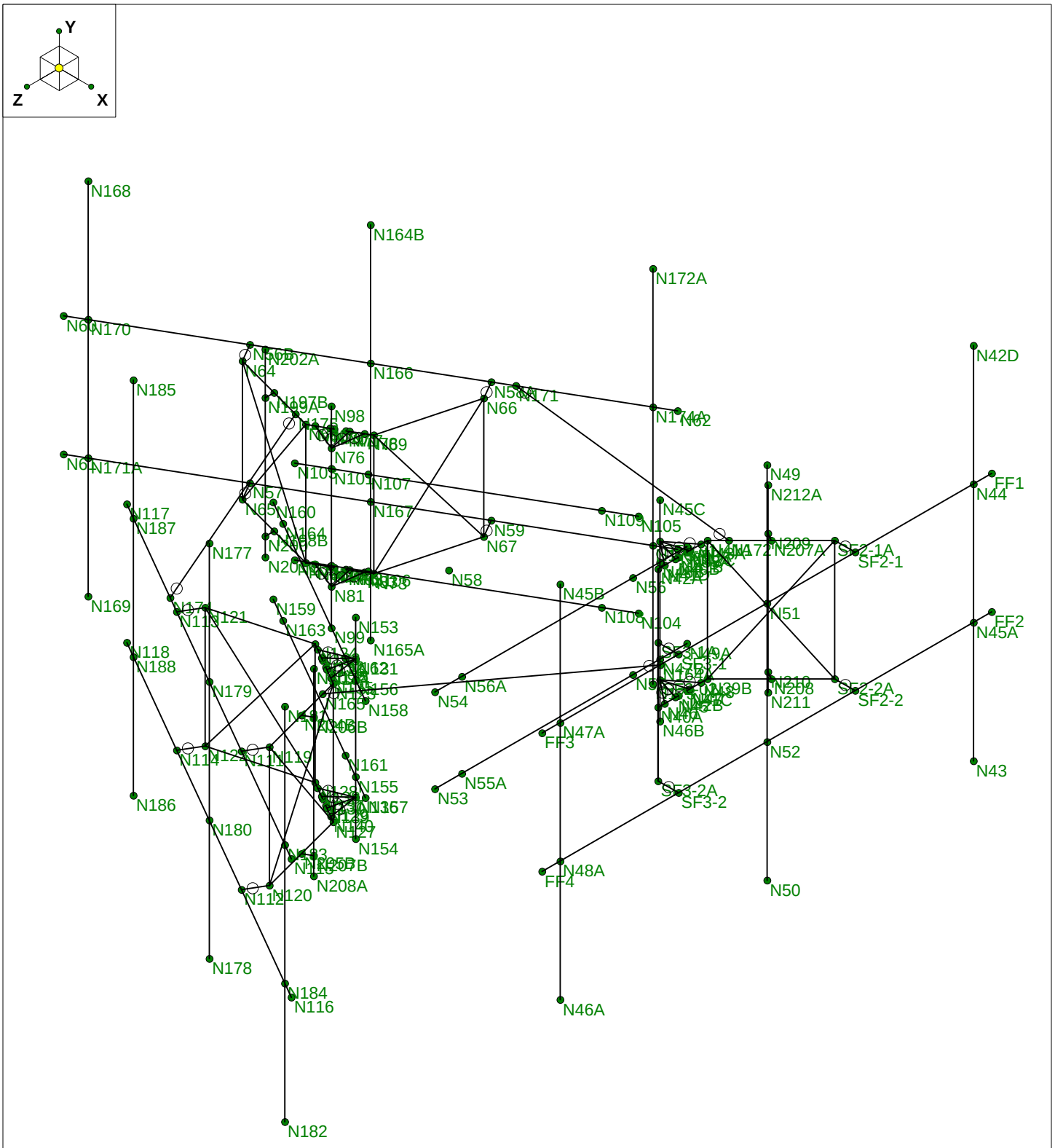

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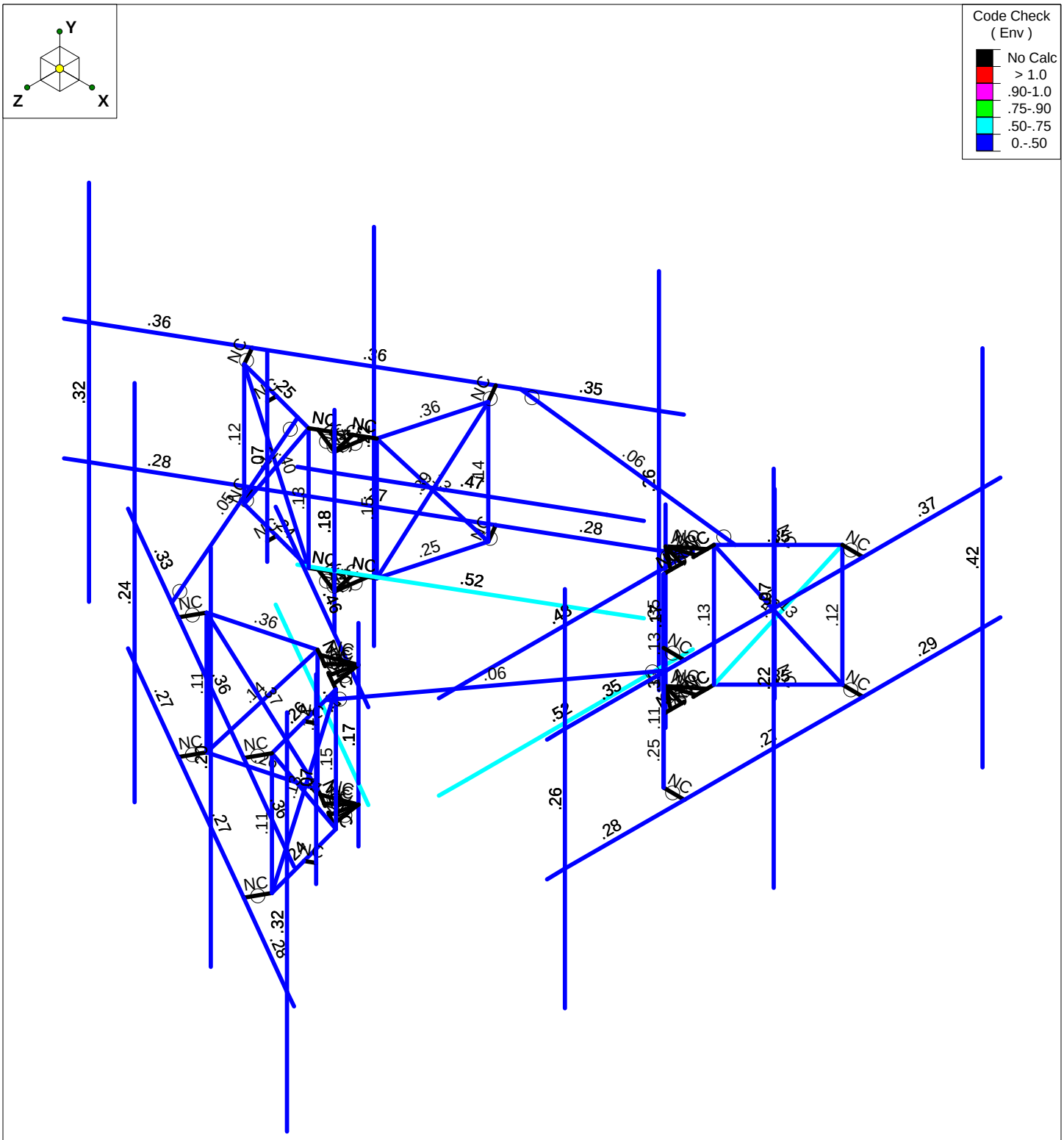

Member Code Checks Displayed (Enveloped)
Envelope Only Solution

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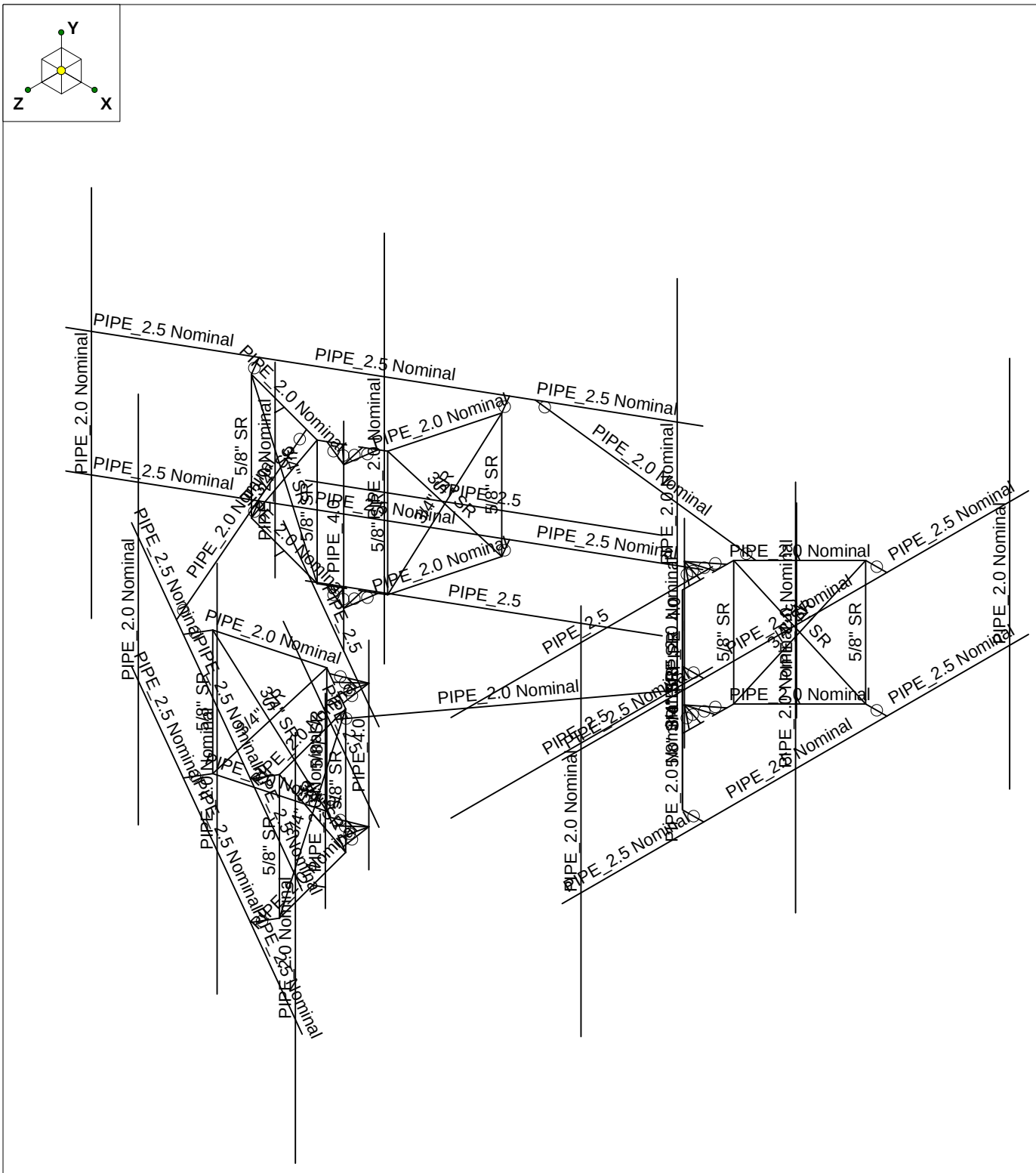

Envelope Only Solution

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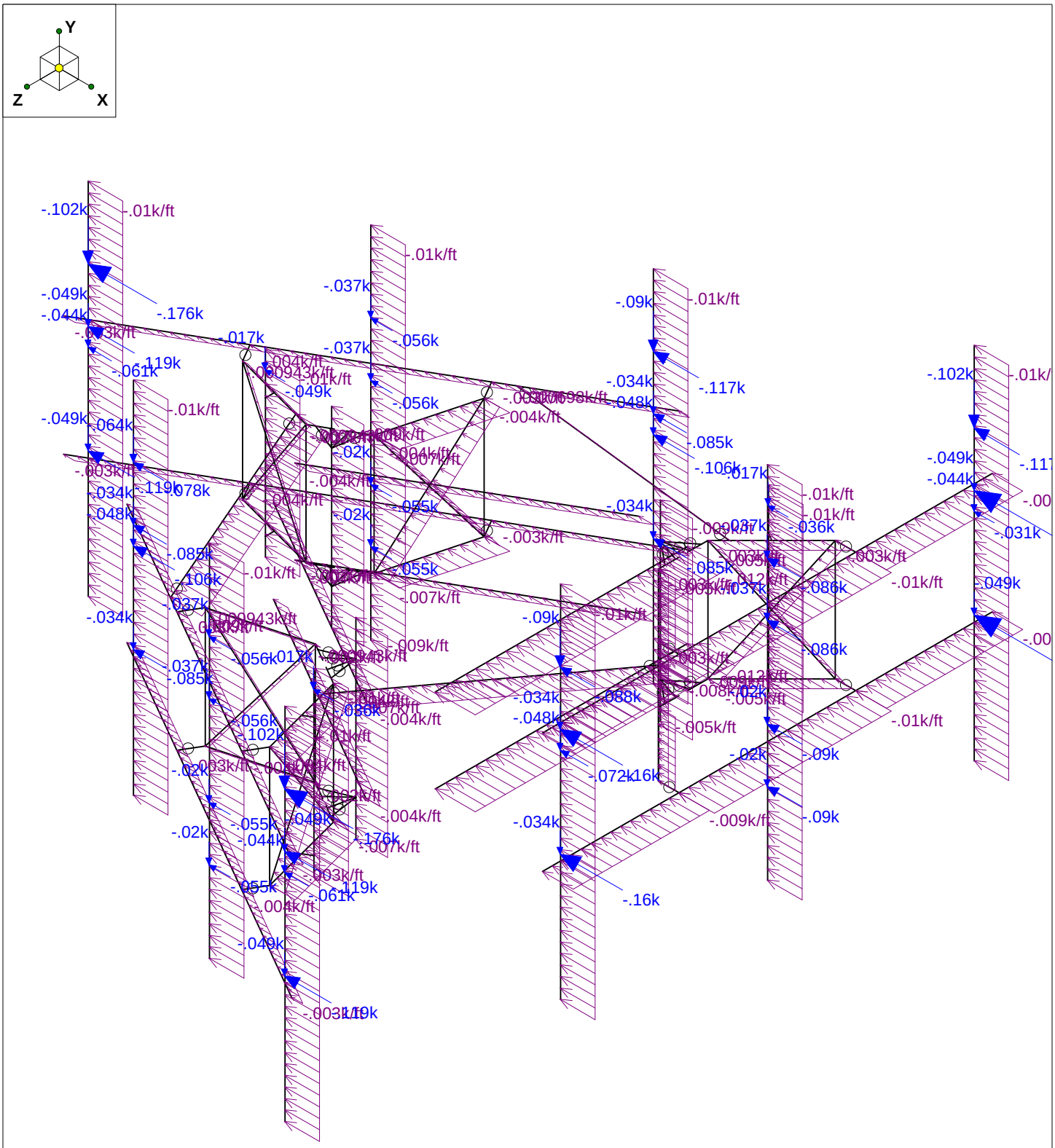

Loads: LC 2, 0.9D+1.0 0-Wind
Envelope Only Solution

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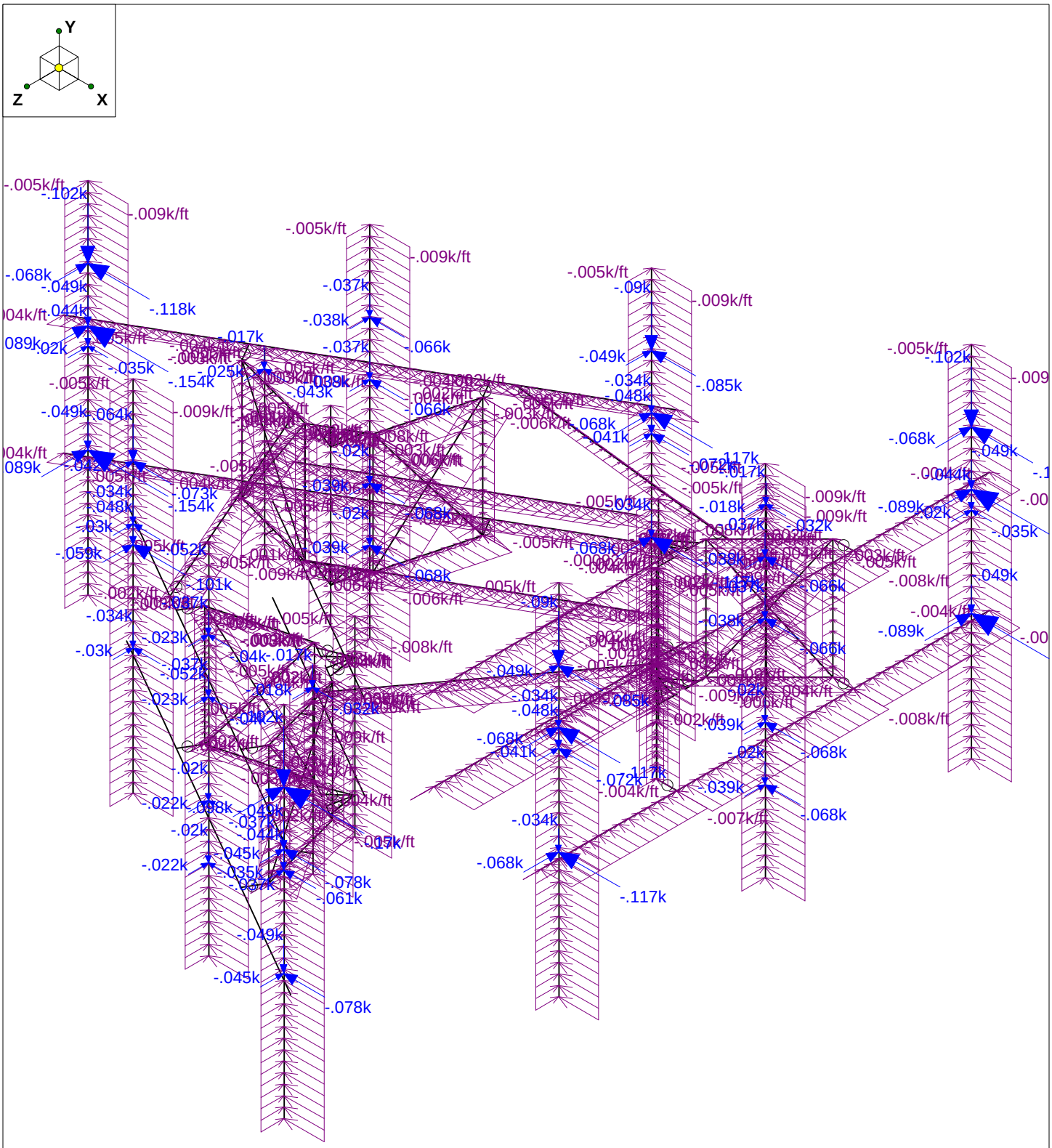
GJS		Apr 28, 2022 at 2:41 PM
TEP No. 217616.688940		Mount.r3d



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

Tower Engineering Profess...		Revision 0
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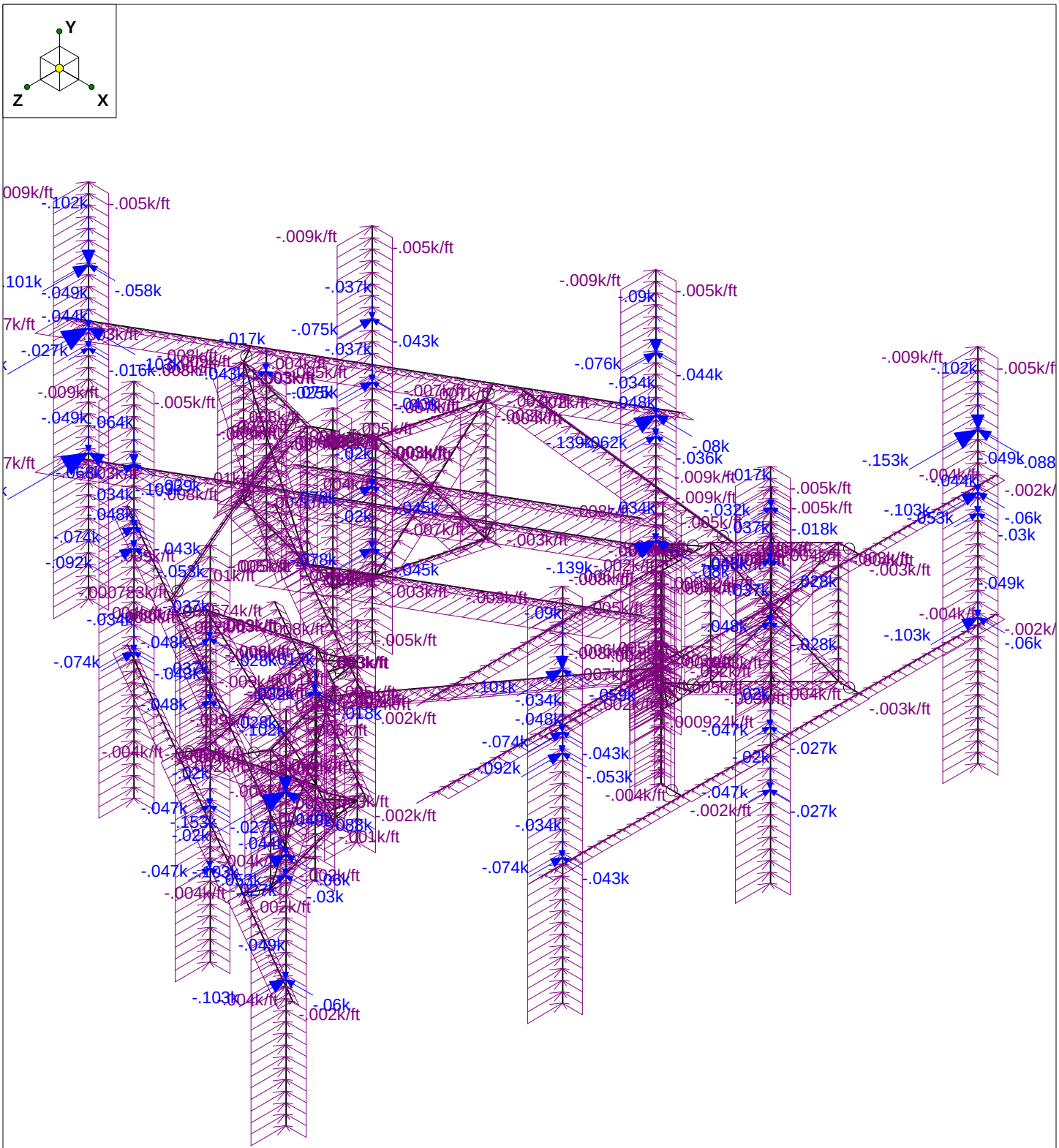
TEP No. 217616.688940		Mount.r3d



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

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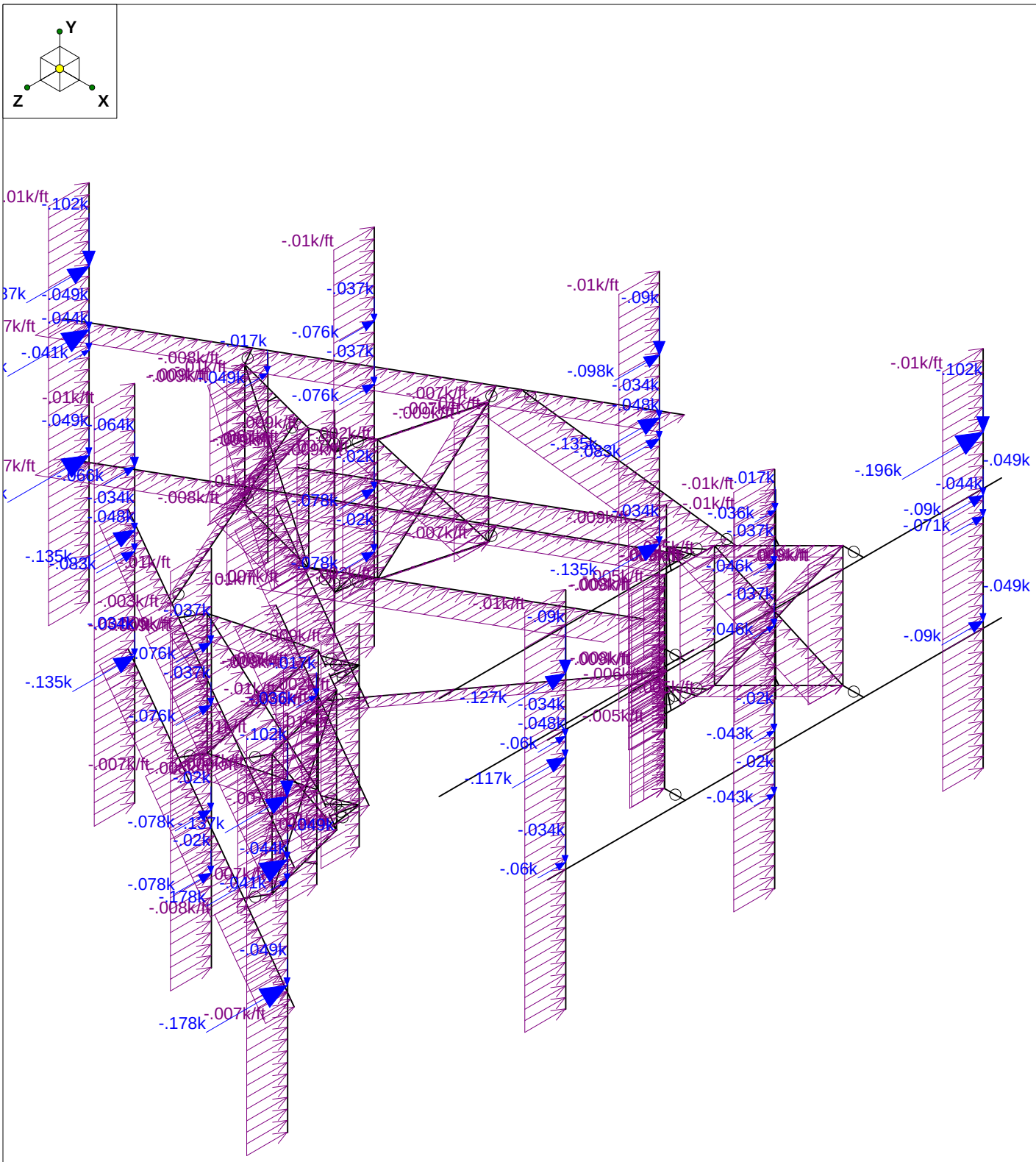

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Envelope Only Solution

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TEP No. 217616.688940		Mount.r3d

APPENDIX B

SOFTWARE INPUT CALCULATIONS

TOWER ENGINEERING PROFESSIONALS

Milford (BU 842870)

TEP No.	217616.688940	
Analysis By:	GJS	4/28/2022
Checked By:	TWC	4/28/2022

Code Revisions:	TIA-222-H	IBC 2018
Tower Type:	3 Sided Self-Support	

Wind Inputs:

Ult. Wind Velocity:	120.0	mph
Live Load Velocity:	30.0	mph
Ice Wind Velocity:	50.0	mph
Base Ice Thickness:	1.00	inches
Mount Centerline:	141.0	ft
Antenna Centerline:	143.0	ft
Exposure Category:	C	
Topo Category:	1	
Risk Category:	II	
Ground Elevation:	68	ft

Wind Calculations:

K_{zt}:	1.000	Section 2.6.6
K_d:	0.950	
$K_{z\text{-}Mount}$:	1.361	Section 2.6.5.2
$K_{z\text{-}Antenna}$:	1.365	Section 2.6.5.2
K_{iz}:	1.157	Section 2.6.10
Ice Thickness:	1.157	inches - Section 2.6.10

Without Ice - (psf)		With Ice - (psf)	
$(q_zG_h)_{Mount}$:	47.53	**$(q_zG_h)_{Mount}$:**	8.25
$(q_zG_h)_{Antenna}$:	47.67	**$(q_zG_h)_{Antenna}$:**	8.28

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

Seismic Input

S_{DS}:	0.216	Design Short Period Spectral Accel.
I_p:	1.0	Importance Factor
R_p:	2.0	Response Modification Factor
ρ:	1.0	
A_s:	1.0	Applification Factor - TIA-222-H Section 2.7.8.1
S_1:	0.053	Spectral Acceleration at a Period of 1 Second

Seismic Design Force

Cs:	0.108	kips/kip	TIA-H Sec 2.7.7.1.1
Cs-min:	0.030	kips/kip	TIA-H Sec 2.7.7.1.1

TOWER ENGINEERING PROFESSIONALS

Milford (BU 842870)

TEP No.	217616.688940	
Analysis By:	GJS	4/28/2022
Checked By:	TWC	4/28/2022

Antenna Loads are Calculated in Accordance with TIA-222-H

Azimuth is the absolute angle measured clockwise from RISA-3D global X-axis.

										Distance from start node of the member		
MFR	Model	Height (in)	Width (in)	Depth (in)	Wt. (lbs)	Azimuth°	Qty	Shape	Member Label	Location #1 (ft,%)	Location #2 (ft,%)	Location #3 (ft,%)
QUINTEL TECHNOLOGY	QD4616-7	51.50	22.00	9.60	109.00	0.00	1	Flat	MP-1	3.50	6.50	
ERICSSON	AIR 6449 B77D_CCVI2	30.39	15.87	8.07	81.60	0.00	1	Flat	MP-2	2.25	3.75	
ERICSSON	AIR 6419 B77G_CCIV3	31.10	16.10	7.30	44.00	0.00	1	Flat	MP-2	6.25	7.75	
CCI ANTENNAS	DMP65R-BU4D	48.00	20.70	7.70	76.50	0.00	1	Flat	MP-3	3.50	6.50	
ERICSSON	RRUS 4478 B14	16.50	13.40	7.70	59.90	90.00	1	Flat	MP-1	2.00		
ERICSSON	RRUS 32 B2	27.20	12.05	7.00	52.90	90.00	1	Flat	MP-1	2.00		
ERICSSON	RRUS 4426 B66	14.96	13.19	5.80	48.40	90.00	1	Flat	MP-1	4.00		
COMMSCOPE	WCS-IMFQ-AMT	11.20	10.60	6.90	29.50	90.00	1	Flat	MP-3	2.00		
ERICSSON	RRUS 4449 B5/B12	17.90	13.19	9.44	71.00	90.00	1	Flat	MP-3	2.00		
ERICSSON	RRUS 32 B30	27.20	12.05	7.00	52.90	90.00	1	Flat	MP-3	4.00		
RAYCAP	DC6-48-60-18-8F	22.25	11.00	11.00	18.90	90.00	1	Round	MP-10	0.50		
QUINTEL TECHNOLOGY	QD4616-7	51.50	22.00	9.60	109.00	120.00	1	Flat	MP-4	3.50	6.50	
ERICSSON	AIR 6449 B77D_CCVI2	30.39	15.87	8.07	81.60	120.00	1	Flat	MP-5	2.25	3.75	
ERICSSON	AIR 6419 B77G_CCIV3	31.10	16.10	7.30	44.00	120.00	1	Flat	MP-5	6.25	7.75	
CCI ANTENNAS	DMP65R-BU4D	48.00	20.70	7.70	76.50	120.00	1	Flat	MP-6	3.50	6.50	
ERICSSON	RRUS 4478 B14	16.50	13.40	7.70	59.90	210.00	1	Flat	MP-4	2.00		
ERICSSON	RRUS 32 B2	27.20	12.05	7.00	52.90	210.00	1	Flat	MP-4	2.00		
ERICSSON	RRUS 4426 B66	14.96	13.19	5.80	48.40	210.00	1	Flat	MP-4	4.00		
ERICSSON	RRUS 4449 B5/B12	17.90	13.19	9.44	71.00	210.00	1	Flat	MP-6	2.00		
ERICSSON	RRUS 32 B30	27.20	12.05	7.00	52.90	210.00	1	Flat	MP-6	4.00		
RAYCAP	DC6-48-60-18-8F	22.25	11.00	11.00	18.90	210.00	1	Round	MP-11	0.50		
QUINTEL TECHNOLOGY	QD4616-7	51.50	22.00	9.60	109.00	240.00	1	Flat	MP-7	3.50	6.50	
ERICSSON	AIR 6449 B77D_CCVI2	30.39	15.87	8.07	81.60	240.00	1	Flat	MP-8	2.25	3.75	
ERICSSON	AIR 6419 B77G_CCIV3	31.10	16.10	7.30	44.00	240.00	1	Flat	MP-8	6.25	7.75	
CCI ANTENNAS	DMP65R-BU4D	48.00	20.70	7.70	76.50	240.00	1	Flat	MP-9	3.50	6.50	
ERICSSON	RRUS 4478 B14	16.50	13.40	7.70	59.90	330.00	1	Flat	MP-7	2.00		
ERICSSON	RRUS 32 B2	27.20	12.05	7.00	52.90	330.00	1	Flat	MP-7	2.00		
ERICSSON	RRUS 4426 B66	14.96	13.19	5.80	48.40	330.00	1	Flat	MP-7	4.00		
COMMSCOPE	WCS-IMFQ-AMT	11.20	10.60	6.90	29.50	330.00	1	Flat	MP-9	2.00		
ERICSSON	RRUS 4449 B5/B12	17.90	13.19	9.44	71.00	330.00	1	Flat	MP-9	2.00		
ERICSSON	RRUS 32 B30	27.20	12.05	7.00	52.90	330.00	1	Flat	MP-9	4.00		
RAYCAP	DC9-48-60-24-8C-EV_CCIV2	31.40	10.24	10.24	18.50	330.00	1	Round	MP-12	0.50		

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

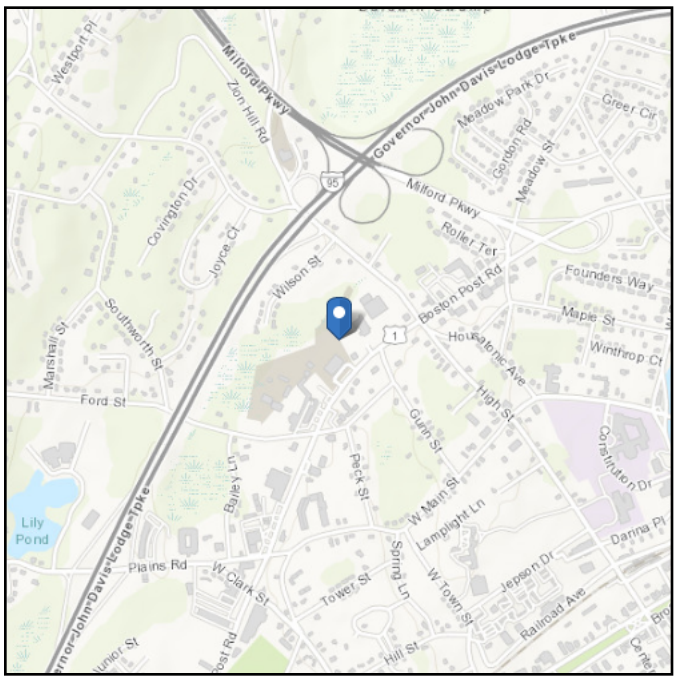
Member Name	Wind Proj. (in)	Length (in)	Shape	θ (°)	Perimeter (in)
SF2-TH	2.375	30.00	Round	45.00	7.46
SF3-TH	2.375	30.00	Round	-45.00	7.46
FFTH-1	2.875	45.50	Round	90.00	9.03
FFBH-1	2.875	45.50	Round	90.00	9.03
FFTH-2	2.875	59.00	Round	90.00	9.03
FFBH-2	2.875	59.00	Round	90.00	9.03
FFTH-3	2.875	45.50	Round	90.00	9.03
FFBH-3	2.875	45.50	Round	90.00	9.03
SF2-BH	2.375	30.00	Round	45.00	7.46
SF3-BH	2.375	30.00	Round	-45.00	7.46
SF2-V2	2.375	40.00	Round	0.00	7.46
SF2-V1	2.375	40.00	Round	0.00	7.46
SF3-V1	2.375	40.00	Round	0.00	7.46
SF3-V2	2.375	40.00	Round	0.00	7.46
SF2-D1	2.375	50.00	Round	25.00	7.46
SF2-D4	2.375	50.00	Round	25.00	7.46
SF3-D1	2.375	50.00	Round	25.00	7.46
SF3-D4	2.375	50.00	Round	25.00	7.46
MP-2	2.375	120.00	Round		7.46
MP-1	2.375	120.00	Round		7.46
MP-3	2.375	120.00	Round		7.46
M39B	4.500	64.00	Round		14.14
TS-1	2.875	84.00	Round	90.00	9.03
TS-2	2.875	84.00	Round	90.00	9.03
SF6-TH	2.375	30.00	Round	-15.00	7.46
SF-7 TH	2.375	30.00	Round	75.00	7.46
FFTH-7	2.875	45.50	Round	30.00	9.03
FFBH-7	2.875	45.50	Round	30.00	9.03
FFTH-8	2.875	59.00	Round	30.00	9.03
FFBH-8	2.875	59.00	Round	30.00	9.03
FFTH-9	2.875	45.50	Round	30.00	9.03
FFBH-9	2.875	45.50	Round	30.00	9.03
SF6-BH	2.375	30.00	Round	-15.00	7.46
SF-7 BH	2.375	30.00	Round	75.00	7.46
SF-6 V2	2.375	40.00	Round	0.00	7.46
SF-6 V1	2.375	40.00	Round	0.00	7.46
SF-7 V1	2.375	40.00	Round	0.00	7.46
SF-7 V2	2.375	40.00	Round	0.00	7.46
SF-6 D1	2.375	50.00	Round	8.93	7.46
SF-6 D4	2.375	50.00	Round	8.93	7.46
SF-7 D1	2.375	50.00	Round	35.42	7.46
SF-7 D4	2.375	50.00	Round	35.42	7.46
M78	4.500	64.00	Round		14.14
TS-5	2.875	84.00	Round	30.00	9.03
TS-6	2.875	84.00	Round	30.00	9.03
SF-4 TH	2.375	30.00	Round	-75.00	7.46
SF-5 TH	2.375	30.00	Round	15.00	7.46
FFTH-4	2.875	45.50	Round	-30.00	9.03
FFBH-4	2.875	45.50	Round	-30.00	9.03
FFTH-5	2.875	59.00	Round	-30.00	9.03
FFBH-5	2.875	59.00	Round	-30.00	9.03
FFTH-6	2.875	45.50	Round	-30.00	9.03
FFBH-6	2.875	45.50	Round	-30.00	9.03
SF4-BH	2.375	30.00	Round	-75.00	7.46
SF5-BH	2.375	30.00	Round	15.00	7.46
SF-4 V2	2.375	40.00	Round	0.00	7.46
SF-4 V1	2.375	40.00	Round	0.00	7.46
SF-5 V1	2.375	40.00	Round	0.00	7.46
SF-5 V2	2.375	40.00	Round	0.00	7.46
SF-4 D1	2.375	50.00	Round	35.42	7.46
SF-4 D4	2.375	50.00	Round	35.42	7.46
SF-5 D1	2.375	50.00	Round	8.93	7.46
SF-5 D4	2.375	50.00	Round	8.93	7.46
M118	4.500	64.00	Round		14.14
TS-3	2.875	84.00	Round	-30.00	9.03
TS-4	2.875	84.00	Round	-30.00	9.03
SA-1	2.375	80.64	Round	53.51	7.46
SA-3	2.375	80.64	Round	-6.49	7.46
SA-2	2.375	80.64	Round	-66.49	7.46
MP-10	2.375	60.00	Round		7.46
MP-12	2.375	60.00	Round		7.46
MP-11	2.375	60.00	Round		7.46
MP-8	2.375	120.00	Round		7.46
MP-7	2.375	120.00	Round		7.46
MP-9	2.375	120.00	Round		7.46
MP-5	2.375	120.00	Round		7.46
MP-4	2.375	120.00	Round		7.46
MP-6	2.375	120.00	Round		7.46

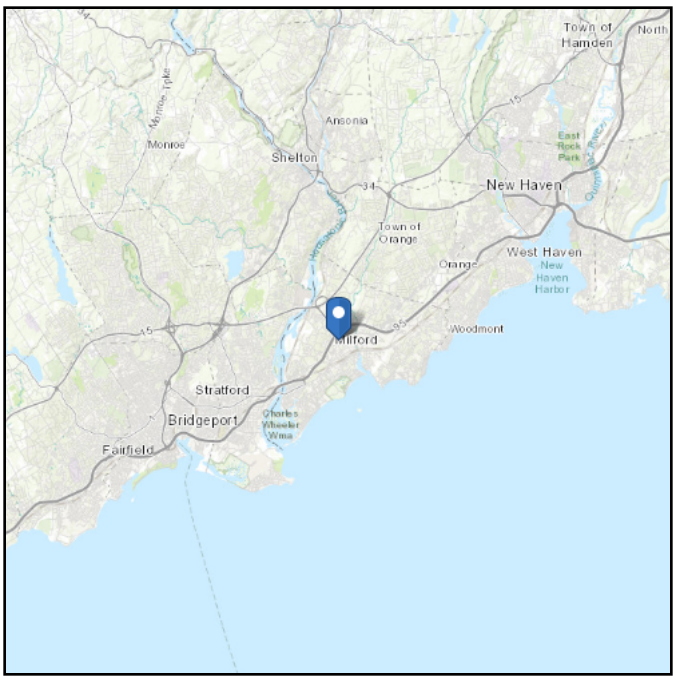
ASCE 7 Hazards Report

Address:
No Address at This Location

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

Elevation: 68.18 ft (NAVD 88)
Latitude: 41.228525
Longitude: -73.070131





Wind

Results:

Wind Speed	120 Vmph
10-year MRI	75 Vmph
25-year MRI	85 Vmph
50-year MRI	91 Vmph
100-year MRI	98 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed: Thu Apr 21 2022

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

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

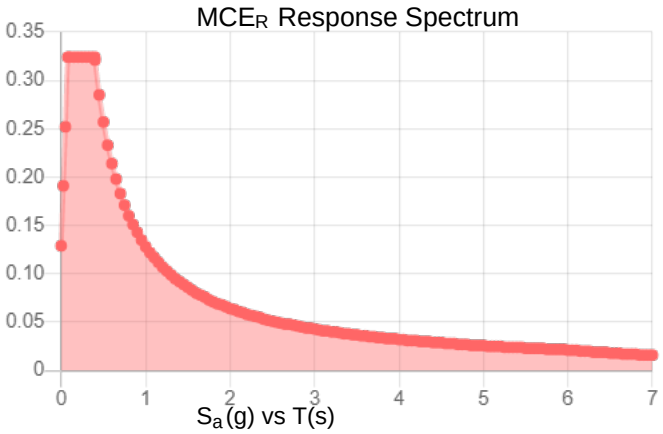
Seismic

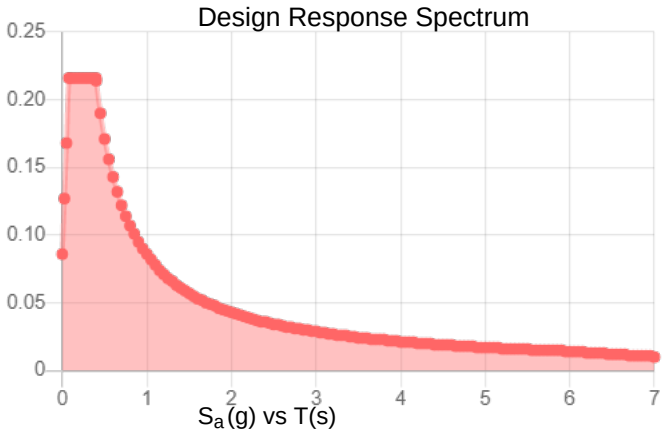
Site Soil Class: D - Default (see Section 11.4.3)

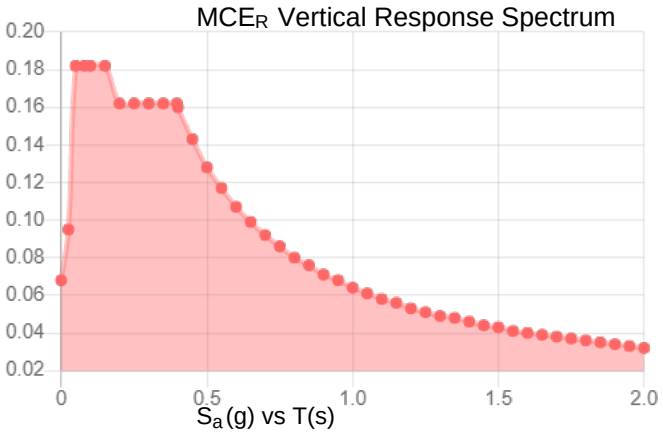
Results:

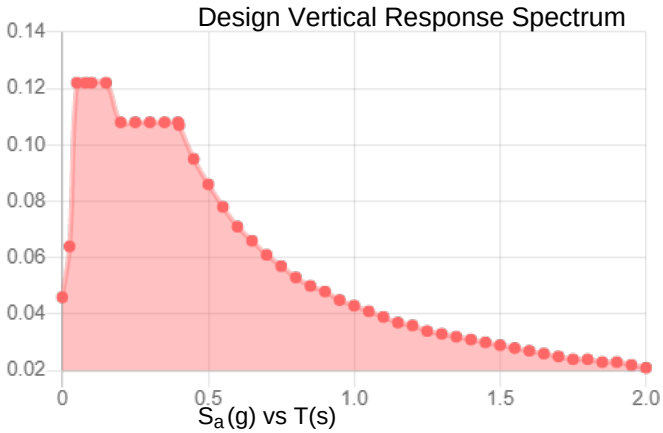
S_S :	0.202	S_{D1} :	0.086
S_1 :	0.053	T_L :	6
F_a :	1.6	PGA :	0.114
F_v :	2.4	PGA_M :	0.179
S_{MS} :	0.324	F_{PGA} :	1.572
S_{M1} :	0.128	I_e :	1
S_{DS} :	0.216	C_v :	0.705

Seismic Design Category B









Data Accessed: **Thu Apr 21 2022**

Date Source:

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

Ice

Results:

Ice Thickness:	1.00 in.
Concurrent Temperature:	15 F
Gust Speed	50 mph
Data Source:	Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8
Date Accessed:	Thu Apr 21 2022

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

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

APPENDIX C

SOFTWARE ANALYSIS OUTPUT

(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)	12
Eigensolution Convergence Tol. (1.E-)	4
Vertical Axis	Y
Global Member Orientation Plane	XZ
Static Solver	Sparse Accelerated
Dynamic Solver	Accelerated Solver

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

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

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

Apr 28, 2022
12:44 PM
Checked By: TWC

(Global) Model Settings, Continued

Seismic Code	ASCE 7-16
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	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
2	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
3	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.42	29000	11154	.3	.65	.49	42	1.4	58	1.3
5	A500 Gr.46	29000	11154	.3	.65	.49	46	1.4	58	1.3
6	A53-B-35	29000	11154	.3	.65	.49	35	1.5	60	1.2

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horiz.	PIPE_2.5 Nominal	Beam	Pipe	A53-B-35	Typical	1.704	1.53	1.53	3.059
2	Mount Pipe	PIPE_2.0 Nominal	Column	Pipe	A53-B-35	Typical	1.075	.666	.666	1.331
3	Support Diag.	3/4" SR	Beam	BAR	A36 Gr.36	Typical	.442	.016	.016	.031
4	Support Vert	5/8" SR	Column	BAR	A36 Gr.36	Typical	.307	.007	.007	.015
5	Support Horiz.	PIPE_2.0 Nominal	Beam	Pipe	A53-B-35	Typical	1.075	.666	.666	1.331
6	Stab Arm	PIPE_2.0 Nominal	Beam	Pipe	A53-B-35	Typical	1.075	.666	.666	1.331
7	Connection Pipe	PIPE_4.0	Column	Pipe	A53-B-35	Typical	2.96	6.82	6.82	13.6
8	Tower Bracing	PIPE_2.5	HBrace	Pipe	A53-B-35	Typical	1.61	1.45	1.45	2.89

Material Takeoff

	Material	Size	Pieces	Length[ft]	Weight[K]
1	General				
2	RIGID		54	33	0
3	Total General		54	33	0
4					
5	Hot Rolled Steel				
6	A36 Gr.36	3/4" SR	12	50	.075
7	A36 Gr.36	5/8" SR	12	40	.042

Material Takeoff (Continued)

	Material	Size	Pieces	Length[ft]	Weight[K]
8	A53-B-35	PIPE 2.0 Nominal	27	155.2	.568
9	A53-B-35	PIPE 2.5	6	42	.23
10	A53-B-35	PIPE 2.5 Nominal	18	75	.435
11	A53-B-35	PIPE 4.0	3	16	.161
12	Total HR Steel		78	378.2	1.511

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	N55	Reaction	Reaction	Reaction			
2	N56	Reaction	Reaction	Reaction			
3	N55A	Reaction	Reaction	Reaction			
4	N56A	Reaction	Reaction	Reaction			
5	N106	Reaction	Reaction	Reaction			
6	N107	Reaction	Reaction	Reaction			
7	N108	Reaction	Reaction	Reaction			
8	N109	Reaction	Reaction	Reaction			
9	N161	Reaction	Reaction	Reaction			
10	N162	Reaction	Reaction	Reaction			
11	N163	Reaction	Reaction	Reaction			
12	N164	Reaction	Reaction	Reaction			

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	SF2-TH	N41A	SF2-1A			Support Horiz.	Beam	Pipe	A53-B-35	Typical
2	SF3-TH	N42A	SF3-1A			Support Horiz.	Beam	Pipe	A53-B-35	Typical
3	FFTH-1	FF1	SF2-1			Face Horiz.	Beam	Pipe	A53-B-35	Typical
4	FFBH-1	FF2	SF2-2			Face Horiz.	Beam	Pipe	A53-B-35	Typical
5	FFTH-2	SF2-1	SF3-1			Face Horiz.	Beam	Pipe	A53-B-35	Typical
6	FFBH-2	SF2-2	SF3-2			Face Horiz.	Beam	Pipe	A53-B-35	Typical
7	FFTH-3	SF3-1	FF3			Face Horiz.	Beam	Pipe	A53-B-35	Typical
8	FFBH-3	SF3-2	FF4			Face Horiz.	Beam	Pipe	A53-B-35	Typical
9	M28	SF2-1A	SF2-1			RIGID	None	None	RIGID	Typical
10	M29	SF3-1A	SF3-1			RIGID	None	None	RIGID	Typical
11	M30	SF2-2A	SF2-2			RIGID	None	None	RIGID	Typical
12	M31	SF3-2A	SF3-2			RIGID	None	None	RIGID	Typical
13	M22	N41A	N39A			RIGID	None	None	RIGID	Typical
14	M23	N42A	N41B			RIGID	None	None	RIGID	Typical
15	SF2-BH	N39B	SF2-2A			Support Horiz.	Beam	Pipe	A53-B-35	Typical
16	SF3-BH	N40A	SF3-2A			Support Horiz.	Beam	Pipe	A53-B-35	Typical
17	M22A	N39B	N41C			RIGID	None	None	RIGID	Typical
18	M23A	N40A	N42B			RIGID	None	None	RIGID	Typical
19	SF2-V2	SF2-1A	SF2-2A			Support Vert	Column	BAR	A36 Gr.36	Typical
20	SF2-V1	N41A	N39B			Support Vert	Column	BAR	A36 Gr.36	Typical
21	SF3-V1	N42A	N40A			Support Vert	Column	BAR	A36 Gr.36	Typical
22	SF3-V2	SF3-1A	SF3-2A			Support Vert	Column	BAR	A36 Gr.36	Typical
23	SF2-D1	N41A	SF2-2A			Support Diag.	Beam	BAR	A36 Gr.36	Typical
24	SF2-D4	SF2-1A	N39B			Support Diag.	Beam	BAR	A36 Gr.36	Typical
25	SF3-D1	N42A	SF3-2A			Support Diag.	Beam	BAR	A36 Gr.36	Typical
26	SF3-D4	SF3-1A	N40A			Support Diag.	Beam	BAR	A36 Gr.36	Typical
27	M32	N41D	SF2-01			RIGID	None	None	RIGID	Typical
28	M33	N40B	SF2-01			RIGID	None	None	RIGID	Typical
29	M34	N42C	SF2-01			RIGID	None	None	RIGID	Typical
30	M35	N43A	SF2-01			RIGID	None	None	RIGID	Typical
31	M36	N46	SF2-02			RIGID	None	None	RIGID	Typical

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
32	M37	N45	SF2-02			RIGID	None	None	RIGID	Typical
33	M38	N47	SF2-02			RIGID	None	None	RIGID	Typical
34	M39	N48	SF2-02			RIGID	None	None	RIGID	Typical
35	MP-2	N49	N50			Mount Pipe	Column	Pipe	A53-B-35	Typical
36	MP-1	N42D	N43			Mount Pipe	Column	Pipe	A53-B-35	Typical
37	MP-3	N45B	N46A			Mount Pipe	Column	Pipe	A53-B-35	Typical
38	M39B	N45C	N46B			Connection Pipe	Column	Pipe	A53-B-35	Typical
39	TS-1	N50A	N54			Tower Bracing	HBrace	Pipe	A53-B-35	Typical
40	TS-2	N49A	N53			Tower Bracing	HBrace	Pipe	A53-B-35	Typical
41	SF6-TH	N68	N64			Support Horiz.	Beam	Pipe	A53-B-35	Typical
42	SF-7 TH	N69	N66			Support Horiz.	Beam	Pipe	A53-B-35	Typical
43	FFTH-7	N60	N56B			Face Horiz.	Beam	Pipe	A53-B-35	Typical
44	FFBH-7	N61	N57			Face Horiz.	Beam	Pipe	A53-B-35	Typical
45	FFTH-8	N56B	N58A			Face Horiz.	Beam	Pipe	A53-B-35	Typical
46	FFBH-8	N57	N59			Face Horiz.	Beam	Pipe	A53-B-35	Typical
47	FFTH-9	N58A	N62			Face Horiz.	Beam	Pipe	A53-B-35	Typical
48	FFBH-9	N59	N63			Face Horiz.	Beam	Pipe	A53-B-35	Typical
49	M49	N64	N56B			RIGID	None	None	RIGID	Typical
50	M50	N66	N58A			RIGID	None	None	RIGID	Typical
51	M51	N65	N57			RIGID	None	None	RIGID	Typical
52	M52	N67	N59			RIGID	None	None	RIGID	Typical
53	M53	N68	N70			RIGID	None	None	RIGID	Typical
54	M54	N69	N71			RIGID	None	None	RIGID	Typical
55	SF6-BH	N72	N65			Support Horiz.	Beam	Pipe	A53-B-35	Typical
56	SF-7 BH	N73	N67			Support Horiz.	Beam	Pipe	A53-B-35	Typical
57	M57	N72	N74			RIGID	None	None	RIGID	Typical
58	M58	N73	N75			RIGID	None	None	RIGID	Typical
59	SF-6 V2	N64	N65			Support Vert	Column	BAR	A36 Gr.36	Typical
60	SF-6 V1	N68	N72			Support Vert	Column	BAR	A36 Gr.36	Typical
61	SF-7 V1	N69	N73			Support Vert	Column	BAR	A36 Gr.36	Typical
62	SF-7 V2	N66	N67			Support Vert	Column	BAR	A36 Gr.36	Typical
63	SF-6 D1	N68	N65			Support Diag.	Beam	BAR	A36 Gr.36	Typical
64	SF-6 D4	N64	N72			Support Diag.	Beam	BAR	A36 Gr.36	Typical
65	SF-7 D1	N69	N67			Support Diag.	Beam	BAR	A36 Gr.36	Typical
66	SF-7 D4	N66	N73			Support Diag.	Beam	BAR	A36 Gr.36	Typical
67	M67	N78	N76			RIGID	None	None	RIGID	Typical
68	M68	N77	N76			RIGID	None	None	RIGID	Typical
69	M69	N79	N76			RIGID	None	None	RIGID	Typical
70	M70	N80	N76			RIGID	None	None	RIGID	Typical
71	M71	N83	N81			RIGID	None	None	RIGID	Typical
72	M72	N82	N81			RIGID	None	None	RIGID	Typical
73	M73	N84	N81			RIGID	None	None	RIGID	Typical
74	M74	N85	N81			RIGID	None	None	RIGID	Typical
75	M78	N98	N99			Connection Pipe	Column	Pipe	A53-B-35	Typical
76	TS-5	N103	N105			Tower Bracing	HBrace	Pipe	A53-B-35	Typical
77	TS-6	N102	N104			Tower Bracing	HBrace	Pipe	A53-B-35	Typical
78	SF-4 TH	N123	N119			Support Horiz.	Beam	Pipe	A53-B-35	Typical
79	SF-5 TH	N124	N121			Support Horiz.	Beam	Pipe	A53-B-35	Typical
80	FFTH-4	N115	N111			Face Horiz.	Beam	Pipe	A53-B-35	Typical
81	FFBH-4	N116	N112			Face Horiz.	Beam	Pipe	A53-B-35	Typical
82	FFTH-5	N111	N113			Face Horiz.	Beam	Pipe	A53-B-35	Typical
83	FFBH-5	N112	N114			Face Horiz.	Beam	Pipe	A53-B-35	Typical
84	FFTH-6	N113	N117			Face Horiz.	Beam	Pipe	A53-B-35	Typical
85	FFBH-6	N114	N118			Face Horiz.	Beam	Pipe	A53-B-35	Typical
86	M89	N119	N111			RIGID	None	None	RIGID	Typical
87	M90	N121	N113			RIGID	None	None	RIGID	Typical
88	M91	N120	N112			RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
89	M92	N122	N114			RIGID	None	None	RIGID	Typical
90	M93	N123	N125			RIGID	None	None	RIGID	Typical
91	M94	N124	N126			RIGID	None	None	RIGID	Typical
92	SF4-BH	N127	N120			Support Horiz.	Beam	Pipe	A53-B-35	Typical
93	SF5-BH	N128	N122			Support Horiz.	Beam	Pipe	A53-B-35	Typical
94	M97	N127	N129			RIGID	None	None	RIGID	Typical
95	M98	N128	N130			RIGID	None	None	RIGID	Typical
96	SF-4 V2	N119	N120			Support Vert	Column	BAR	A36 Gr.36	Typical
97	SF-4 V1	N123	N127			Support Vert	Column	BAR	A36 Gr.36	Typical
98	SF-5 V1	N124	N128			Support Vert	Column	BAR	A36 Gr.36	Typical
99	SF-5 V2	N121	N122			Support Vert	Column	BAR	A36 Gr.36	Typical
100	SF-4 D1	N123	N120			Support Diag.	Beam	BAR	A36 Gr.36	Typical
101	SF-4 D4	N119	N127			Support Diag.	Beam	BAR	A36 Gr.36	Typical
102	SF-5 D1	N124	N122			Support Diag.	Beam	BAR	A36 Gr.36	Typical
103	SF-5 D4	N121	N128			Support Diag.	Beam	BAR	A36 Gr.36	Typical
104	M107	N133	N131			RIGID	None	None	RIGID	Typical
105	M108	N132	N131			RIGID	None	None	RIGID	Typical
106	M109	N134	N131			RIGID	None	None	RIGID	Typical
107	M110	N135	N131			RIGID	None	None	RIGID	Typical
108	M111	N138	N136			RIGID	None	None	RIGID	Typical
109	M112	N137	N136			RIGID	None	None	RIGID	Typical
110	M113	N139	N136			RIGID	None	None	RIGID	Typical
111	M114	N140	N136			RIGID	None	None	RIGID	Typical
112	M118	N153	N154			Connection Pipe	Column	Pipe	A53-B-35	Typical
113	TS-3	N158	N160			Tower Bracing	HBrace	Pipe	A53-B-35	Typical
114	TS-4	N157	N159			Tower Bracing	HBrace	Pipe	A53-B-35	Typical
115	SA-1	N164A	N165			Stab Arm	Beam	Pipe	A53-B-35	Typical
116	SA-3	N171	N172			Stab Arm	Beam	Pipe	A53-B-35	Typical
117	SA-2	N174	N175			Stab Arm	Beam	Pipe	A53-B-35	Typical
118	M138	N207A	N209			RIGID	None	None	RIGID	Typical
119	M139	N208	N210			RIGID	None	None	RIGID	Typical
120	MP-10	N212A	N211			Mount Pipe	Column	Pipe	A53-B-35	Typical
121	M133	N197B	N199A			RIGID	None	None	RIGID	Typical
122	M134	N198B	N200			RIGID	None	None	RIGID	Typical
123	MP-12	N202A	N201C			Mount Pipe	Column	Pipe	A53-B-35	Typical
124	M136A	N204B	N206B			RIGID	None	None	RIGID	Typical
125	M137A	N205B	N207B			RIGID	None	None	RIGID	Typical
126	MP-11	N209A	N208A			Mount Pipe	Column	Pipe	A53-B-35	Typical
127	MP-8	N164B	N165A			Mount Pipe	Column	Pipe	A53-B-35	Typical
128	MP-7	N168	N169			Mount Pipe	Column	Pipe	A53-B-35	Typical
129	MP-9	N172A	N173			Mount Pipe	Column	Pipe	A53-B-35	Typical
130	MP-5	N177	N178			Mount Pipe	Column	Pipe	A53-B-35	Typical
131	MP-4	N181	N182			Mount Pipe	Column	Pipe	A53-B-35	Typical
132	MP-6	N185	N186			Mount Pipe	Column	Pipe	A53-B-35	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	SF2-TH						Yes				None
2	SF3-TH						Yes				None
3	FFTH-1						Yes				None
4	FFBH-1						Yes				None
5	FFTH-2						Yes				None
6	FFBH-2						Yes				None
7	FFTH-3						Yes				None
8	FFBH-3						Yes				None

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
9	M28		BenPIN				Yes	** NA **			None
10	M29		BenPIN				Yes	** NA **			None
11	M30		BenPIN				Yes	** NA **			None
12	M31		BenPIN				Yes	** NA **			None
13	M22						Yes	** NA **			None
14	M23						Yes	** NA **			None
15	SF2-BH						Yes				None
16	SF3-BH						Yes				None
17	M22A						Yes	** NA **			None
18	M23A						Yes	** NA **			None
19	SF2-V2						Yes	** NA **			None
20	SF2-V1						Yes	** NA **			None
21	SF3-V1						Yes	** NA **			None
22	SF3-V2						Yes	** NA **			None
23	SF2-D1						Yes	Default			None
24	SF2-D4						Yes				None
25	SF3-D1						Yes				None
26	SF3-D4						Yes				None
27	M32	BenPIN					Yes	** NA **			None
28	M33	BenPIN					Yes	** NA **			None
29	M34	BenPIN					Yes	** NA **			None
30	M35	BenPIN					Yes	** NA **			None
31	M36	BenPIN					Yes	** NA **			None
32	M37	BenPIN					Yes	** NA **			None
33	M38	BenPIN					Yes	** NA **			None
34	M39	BenPIN					Yes	** NA **			None
35	MP-2						Yes	** NA **			None
36	MP-1						Yes	** NA **			None
37	MP-3						Yes	** NA **			None
38	M39B						Yes	** NA **			None
39	TS-1						Yes	** NA **			None
40	TS-2						Yes	** NA **			None
41	SF6-TH						Yes				None
42	SF-7 TH						Yes				None
43	FFTH-7						Yes				None
44	FFBH-7						Yes				None
45	FFTH-8						Yes				None
46	FFBH-8						Yes				None
47	FFTH-9						Yes				None
48	FFBH-9						Yes				None
49	M49		BenPIN				Yes	** NA **			None
50	M50		BenPIN				Yes	** NA **			None
51	M51		BenPIN				Yes	** NA **			None
52	M52		BenPIN				Yes	** NA **			None
53	M53						Yes	** NA **			None
54	M54						Yes	** NA **			None
55	SF6-BH						Yes				None
56	SF-7 BH						Yes				None
57	M57						Yes	** NA **			None
58	M58						Yes	** NA **			None
59	SF-6 V2						Yes	** NA **			None
60	SF-6 V1						Yes	** NA **			None
61	SF-7 V1						Yes	** NA **			None
62	SF-7 V2						Yes	** NA **			None
63	SF-6 D1						Yes				None
64	SF-6 D4						Yes				None
65	SF-7 D1						Yes				None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
66	SF-7 D4						Yes				None
67	M67	BenPIN					Yes	** NA **			None
68	M68	BenPIN					Yes	** NA **			None
69	M69	BenPIN					Yes	** NA **			None
70	M70	BenPIN					Yes	** NA **			None
71	M71	BenPIN					Yes	** NA **			None
72	M72	BenPIN					Yes	** NA **			None
73	M73	BenPIN					Yes	** NA **			None
74	M74	BenPIN					Yes	** NA **			None
75	M78						Yes	** NA **			None
76	TS-5						Yes	** NA **			None
77	TS-6						Yes	** NA **			None
78	SF-4 TH						Yes				None
79	SF-5 TH						Yes				None
80	FFTH-4						Yes				None
81	FFBH-4						Yes				None
82	FFTH-5						Yes				None
83	FFBH-5						Yes				None
84	FFTH-6						Yes				None
85	FFBH-6						Yes				None
86	M89		BenPIN				Yes	** NA **			None
87	M90		BenPIN				Yes	** NA **			None
88	M91		BenPIN				Yes	** NA **			None
89	M92		BenPIN				Yes	** NA **			None
90	M93						Yes	** NA **			None
91	M94						Yes	** NA **			None
92	SF4-BH						Yes				None
93	SF5-BH						Yes				None
94	M97						Yes	** NA **			None
95	M98						Yes	** NA **			None
96	SF-4 V2						Yes	** NA **			None
97	SF-4 V1						Yes	** NA **			None
98	SF-5 V1						Yes	** NA **			None
99	SF-5 V2						Yes	** NA **			None
100	SF-4 D1						Yes				None
101	SF-4 D4						Yes				None
102	SF-5 D1						Yes				None
103	SF-5 D4						Yes				None
104	M107	BenPIN					Yes	** NA **			None
105	M108	BenPIN					Yes	** NA **			None
106	M109	BenPIN					Yes	** NA **			None
107	M110	BenPIN					Yes	** NA **			None
108	M111	BenPIN					Yes	** NA **			None
109	M112	BenPIN					Yes	** NA **			None
110	M113	BenPIN					Yes	** NA **			None
111	M114	BenPIN					Yes	** NA **			None
112	M118						Yes	** NA **			None
113	TS-3						Yes	** NA **			None
114	TS-4						Yes	** NA **			None
115	SA-1	BenPIN	BenPIN				Yes	Default			None
116	SA-3	BenPIN	BenPIN				Yes				None
117	SA-2	BenPIN	BenPIN				Yes				None
118	M138						Yes	** NA **			None
119	M139						Yes	** NA **			None
120	MP-10						Yes	** NA **			None
121	M133						Yes	** NA **			None
122	M134						Yes	** NA **			None

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
123	MP-12						Yes	** NA **			None
124	M136A						Yes	** NA **			None
125	M137A						Yes	** NA **			None
126	MP-11						Yes	** NA **			None
127	MP-8						Yes	** NA **			None
128	MP-7						Yes	** NA **			None
129	MP-9						Yes	** NA **			None
130	MP-5						Yes	** NA **			None
131	MP-4						Yes	** NA **			None
132	MP-6						Yes	** NA **			None

Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
1	SF2-TH	Support Hor..	2.5						1	1		Lateral
2	SF3-TH	Support Hor..	2.5						1	1		Lateral
3	FFTH-1	Face Horiz.	3.792						2.1	2.1		Lateral
4	FFBH-1	Face Horiz.	3.792						2.1	2.1		Lateral
5	FFTH-2	Face Horiz.	4.917						1	1		Lateral
6	FFBH-2	Face Horiz.	4.917						1	1		Lateral
7	FFTH-3	Face Horiz.	3.792						2.1	2.1		Lateral
8	FFBH-3	Face Horiz.	3.792						2.1	2.1		Lateral
9	SF2-BH	Support Hor..	2.5						1	1		Lateral
10	SF3-BH	Support Hor..	2.5						1	1		Lateral
11	SF2-V2	Support Vert	3.333						.65	.65		Lateral
12	SF2-V1	Support Vert	3.333						.65	.65		Lateral
13	SF3-V1	Support Vert	3.333						.65	.65		Lateral
14	SF3-V2	Support Vert	3.333						.65	.65		Lateral
15	SF2-D1	Support Diag.	4.167						.65	.65		Lateral
16	SF2-D4	Support Diag.	4.167						.65	.65		Lateral
17	SF3-D1	Support Diag.	4.167						.65	.65		Lateral
18	SF3-D4	Support Diag.	4.167						.65	.65		Lateral
19	MP-2	Mount Pipe	10	Segment	Segment				2.1	2.1		Lateral
20	MP-1	Mount Pipe	10	Segment	Segment				2.1	2.1		Lateral
21	MP-3	Mount Pipe	10	Segment	Segment				2.1	2.1		Lateral
22	M39B	Connection ...	5.333									Lateral
23	TS-1	Tower Braci..	7									Lateral
24	TS-2	Tower Braci..	7									Lateral
25	SF6-TH	Support Hor..	2.5						1	1		Lateral
26	SF-7 TH	Support Hor..	2.5						1	1		Lateral
27	FFTH-7	Face Horiz.	3.792						2.1	2.1		Lateral
28	FFBH-7	Face Horiz.	3.792						2.1	2.1		Lateral
29	FFTH-8	Face Horiz.	4.917						1	1		Lateral
30	FFBH-8	Face Horiz.	4.917						1	1		Lateral
31	FFTH-9	Face Horiz.	3.792						2.1	2.1		Lateral
32	FFBH-9	Face Horiz.	3.792						2.1	2.1		Lateral
33	SF6-BH	Support Hor..	2.5						1	1		Lateral
34	SF-7 BH	Support Hor..	2.5						1	1		Lateral
35	SF-6 V2	Support Vert	3.333						.65	.65		Lateral
36	SF-6 V1	Support Vert	3.333						.65	.65		Lateral
37	SF-7 V1	Support Vert	3.333						.65	.65		Lateral
38	SF-7 V2	Support Vert	3.333						.65	.65		Lateral
39	SF-6 D1	Support Diag.	4.167						.65	.65		Lateral
40	SF-6 D4	Support Diag.	4.167						.65	.65		Lateral
41	SF-7 D1	Support Diag.	4.167						.65	.65		Lateral
42	SF-7 D4	Support Diag.	4.167						.65	.65		Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
43	M78	Connection ...	5.333									Lateral
44	TS-5	Tower Braci...	7									Lateral
45	TS-6	Tower Braci...	7									Lateral
46	SF-4 TH	Support Hor...	2.5						1	1		Lateral
47	SF-5 TH	Support Hor...	2.5						1	1		Lateral
48	FFTH-4	Face Horiz.	3.792						2.1	2.1		Lateral
49	FFBH-4	Face Horiz.	3.792						2.1	2.1		Lateral
50	FFTH-5	Face Horiz.	4.917						1	1		Lateral
51	FFBH-5	Face Horiz.	4.917						1	1		Lateral
52	FFTH-6	Face Horiz.	3.792						2.1	2.1		Lateral
53	FFBH-6	Face Horiz.	3.792						2.1	2.1		Lateral
54	SF4-BH	Support Hor...	2.5						1	1		Lateral
55	SF5-BH	Support Hor...	2.5						1	1		Lateral
56	SF-4 V2	Support Vert	3.333						.65	.65		Lateral
57	SF-4 V1	Support Vert	3.333						.65	.65		Lateral
58	SF-5 V1	Support Vert	3.333						.65	.65		Lateral
59	SF-5 V2	Support Vert	3.333						.65	.65		Lateral
60	SF-4 D1	Support Diag.	4.167						.65	.65		Lateral
61	SF-4 D4	Support Diag.	4.167						.65	.65		Lateral
62	SF-5 D1	Support Diag.	4.167						.65	.65		Lateral
63	SF-5 D4	Support Diag.	4.167						.65	.65		Lateral
64	M118	Connection ...	5.333									Lateral
65	TS-3	Tower Braci...	7									Lateral
66	TS-4	Tower Braci...	7									Lateral
67	SA-1	Stab Arm	6.72			Lbyy						Lateral
68	SA-3	Stab Arm	6.72			Lbyy						Lateral
69	SA-2	Stab Arm	6.72			Lbyy						Lateral
70	MP-10	Mount Pipe	5	Segment	Segment				2.1	2.1		Lateral
71	MP-12	Mount Pipe	5	Segment	Segment				2.1	2.1		Lateral
72	MP-11	Mount Pipe	5	Segment	Segment				2.1	2.1		Lateral
73	MP-8	Mount Pipe	10	Segment	Segment				2.1	2.1		Lateral
74	MP-7	Mount Pipe	10	Segment	Segment				2.1	2.1		Lateral
75	MP-9	Mount Pipe	10	Segment	Segment				2.1	2.1		Lateral
76	MP-5	Mount Pipe	10	Segment	Segment				2.1	2.1		Lateral
77	MP-4	Mount Pipe	10	Segment	Segment				2.1	2.1		Lateral
78	MP-6	Mount Pipe	10	Segment	Segment				2.1	2.1		Lateral

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
1	Dead	None		-1			44			
2	0 Wind - No Ice	None					44	78		
3	30 Wind - No Ice	None					88	156		
4	45 Wind - No Ice	None					88	156		
5	60 Wind - No Ice	None					88	156		
6	90 Wind - No Ice	None					44	78		
7	120 Wind - No Ice	None					88	156		
8	135 Wind - No Ice	None					88	156		
9	150 Wind - No Ice	None					88	156		
10	180 Wind - No Ice	None					44	78		
11	210 Wind - No Ice	None					88	156		
12	225 Wind - No Ice	None					88	156		
13	240 Wind - No Ice	None					88	156		
14	270 Wind - No Ice	None					44	78		
15	300 Wind - No Ice	None					88	156		
16	315 Wind - No Ice	None					88	156		

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
17	330 Wind - No Ice	None					88	156		
18	Ice Weight	None					44	78		
19	0 Wind - Ice	None					44	78		
20	30 Wind - Ice	None					88	156		
21	45 Wind - Ice	None					88	156		
22	60 Wind - Ice	None					88	156		
23	90 Wind - Ice	None					44	78		
24	120 Wind - Ice	None					88	156		
25	135 Wind - Ice	None					88	156		
26	150 Wind - Ice	None					88	156		
27	180 Wind - Ice	None					44	78		
28	210 Wind - Ice	None					88	156		
29	225 Wind - Ice	None					88	156		
30	240 Wind - Ice	None					88	156		
31	270 Wind - Ice	None					44	78		
32	300 Wind - Ice	None					88	156		
33	315 Wind - Ice	None					88	156		
34	330 Wind - Ice	None					88	156		
35	Lm	None				1				
36	Lv	None				1				
37	Seismic Load X	ELX	-1				44			
38	Seismic Load Z	ELZ			-1		44			

Load Combinations

	Description	Sol...	PD...	SR...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...
1	1.4D	Yes	Y		1	1.4																				
2	0.9D+1.0 ...	Yes	Y		1	.9	2	1																		
3	0.9D+1.0 ...	Yes	Y		1	.9	3	1																		
4	0.9D+1.0 ...	Yes	Y		1	.9	4	1																		
5	0.9D+1.0 ...	Yes	Y		1	.9	5	1																		
6	0.9D+1.0 ...	Yes	Y		1	.9	6	1																		
7	0.9D+1.0 ...	Yes	Y		1	.9	7	1																		
8	0.9D+1.0 ...	Yes	Y		1	.9	8	1																		
9	0.9D+1.0 ...	Yes	Y		1	.9	9	1																		
10	0.9D+1.0 ...	Yes	Y		1	.9	10	1																		
11	0.9D+1.0 ...	Yes	Y		1	.9	11	1																		
12	0.9D+1.0 ...	Yes	Y		1	.9	12	1																		
13	0.9D+1.0 ...	Yes	Y		1	.9	13	1																		
14	0.9D+1.0 ...	Yes	Y		1	.9	14	1																		
15	0.9D+1.0 ...	Yes	Y		1	.9	15	1																		
16	0.9D+1.0 ...	Yes	Y		1	.9	16	1																		
17	0.9D+1.0 ...	Yes	Y		1	.9	17	1																		
18	1.2D+1.0 ...	Yes	Y		1	1.2	2	1																		
19	1.2D+1.0 ...	Yes	Y		1	1.2	3	1																		
20	1.2D+1.0 ...	Yes	Y		1	1.2	4	1																		
21	1.2D+1.0 ...	Yes	Y		1	1.2	5	1																		
22	1.2D+1.0 ...	Yes	Y		1	1.2	6	1																		
23	1.2D+1.0 ...	Yes	Y		1	1.2	7	1																		
24	1.2D+1.0 ...	Yes	Y		1	1.2	8	1																		
25	1.2D+1.0 ...	Yes	Y		1	1.2	9	1																		
26	1.2D+1.0 ...	Yes	Y		1	1.2	10	1																		
27	1.2D+1.0 ...	Yes	Y		1	1.2	11	1																		
28	1.2D+1.0 ...	Yes	Y		1	1.2	12	1																		
29	1.2D+1.0 ...	Yes	Y		1	1.2	13	1																		
30	1.2D+1.0 ...	Yes	Y		1	1.2	14	1																		

Load Combinations (Continued)

	Description	Sol..	PD..	SR..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..
31	1.2D+1.0 ...	Yes	Y		1	1.2	15	1																				
32	1.2D+1.0 ...	Yes	Y		1	1.2	16	1																				
33	1.2D+1.0 ...	Yes	Y		1	1.2	17	1																				
34	1.2D+1.0...	Yes	Y		1	1.2	18	1	19	1																		
35	1.2D+1.0...	Yes	Y		1	1.2	18	1	20	1																		
36	1.2D+1.0...	Yes	Y		1	1.2	18	1	21	1																		
37	1.2D+1.0...	Yes	Y		1	1.2	18	1	22	1																		
38	1.2D+1.0...	Yes	Y		1	1.2	18	1	23	1																		
39	1.2D+1.0...	Yes	Y		1	1.2	18	1	24	1																		
40	1.2D+1.0...	Yes	Y		1	1.2	18	1	25	1																		
41	1.2D+1.0...	Yes	Y		1	1.2	18	1	26	1																		
42	1.2D+1.0...	Yes	Y		1	1.2	18	1	27	1																		
43	1.2D+1.0...	Yes	Y		1	1.2	18	1	28	1																		
44	1.2D+1.0...	Yes	Y		1	1.2	18	1	29	1																		
45	1.2D+1.0...	Yes	Y		1	1.2	18	1	30	1																		
46	1.2D+1.0...	Yes	Y		1	1.2	18	1	31	1																		
47	1.2D+1.0...	Yes	Y		1	1.2	18	1	32	1																		
48	1.2D+1.0...	Yes	Y		1	1.2	18	1	33	1																		
49	1.2D+1.0...	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+1.5L...	Yes	Y		1	1.2	2	.063	35	1.5																		
52	1.2D+1.5L...	Yes	Y		1	1.2	3	.063	35	1.5																		
53	1.2D+1.5L...	Yes	Y		1	1.2	4	.063	35	1.5																		
54	1.2D+1.5L...	Yes	Y		1	1.2	5	.063	35	1.5																		
55	1.2D+1.5L...	Yes	Y		1	1.2	6	.063	35	1.5																		
56	1.2D+1.5L...	Yes	Y		1	1.2	7	.063	35	1.5																		
57	1.2D+1.5L...	Yes	Y		1	1.2	8	.063	35	1.5																		
58	1.2D+1.5L...	Yes	Y		1	1.2	9	.063	35	1.5																		
59	1.2D+1.5L...	Yes	Y		1	1.2	10	.063	35	1.5																		
60	1.2D+1.5L...	Yes	Y		1	1.2	11	.063	35	1.5																		
61	1.2D+1.5L...	Yes	Y		1	1.2	12	.063	35	1.5																		
62	1.2D+1.5L...	Yes	Y		1	1.2	13	.063	35	1.5																		
63	1.2D+1.5L...	Yes	Y		1	1.2	14	.063	35	1.5																		
64	1.2D+1.5L...	Yes	Y		1	1.2	15	.063	35	1.5																		
65	1.2D+1.5L...	Yes	Y		1	1.2	16	.063	35	1.5																		
66	1.2D+1.5L...	Yes	Y		1	1.2	17	.063	35	1.5																		
67	(1.2+0.2S...	Yes	Y		1	1.243	ELX	.108	0																			
68	(1.2+0.2S...	Yes	Y		1	1.243	ELX	.094	ELZ	.054																		
69	(1.2+0.2S...	Yes	Y		1	1.243	ELX	.076	ELZ	.076																		
70	(1.2+0.2S...	Yes	Y		1	1.243	ELX	.054	ELZ	.094																		
71	(1.2+0.2S...	Yes	Y		1	1.243	0		ELZ	.108																		
72	(1.2+0.2S...	Yes	Y		1	1.243	ELX	-.054	ELZ	.094																		
73	(1.2+0.2S...	Yes	Y		1	1.243	ELX	-.076	ELZ	.076																		
74	(1.2+0.2S...	Yes	Y		1	1.243	ELX	-.094	ELZ	.054																		
75	(1.2+0.2S...	Yes	Y		1	1.243	ELX	-.108	0																			
76	(1.2+0.2S...	Yes	Y		1	1.243	ELX	-.094	ELZ	-.054																		
77	(1.2+0.2S...	Yes	Y		1	1.243	ELX	-.076	ELZ	-.076																		
78	(1.2+0.2S...	Yes	Y		1	1.243	ELX	-.054	ELZ	-.094																		
79	(1.2+0.2S...	Yes	Y		1	1.243	0		ELZ	-.108																		
80	(1.2+0.2S...	Yes	Y		1	1.243	ELX	.054	ELZ	-.094																		
81	(1.2+0.2S...	Yes	Y		1	1.243	ELX	.076	ELZ	-.076																		
82	(1.2+0.2S...	Yes	Y		1	1.243	ELX	.094	ELZ	-.054																		
83	(0.9-0.2Sd..	Yes	Y		1	.857	ELX	.108	0																			
84	(0.9-0.2Sd..	Yes	Y		1	.857	ELX	.094	ELZ	.054																		
85	(0.9-0.2Sd..	Yes	Y		1	.857	ELX	.076	ELZ	.076																		
86	(0.9-0.2Sd..	Yes	Y		1	.857	ELX	.054	ELZ	.094																		
87	(0.9-0.2Sd..	Yes	Y		1	.857	0		ELZ	.108																		

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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Load Combinations (Continued)

	Description	Sol..	PD..	SR..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..
88	(0.9-0.2Sd..	Yes	Y		1	.857	ELX	-.054	ELZ	.094																		
89	(0.9-0.2Sd..	Yes	Y		1	.857	ELX	-.076	ELZ	.076																		
90	(0.9-0.2Sd..	Yes	Y		1	.857	ELX	-.094	ELZ	.054																		
91	(0.9-0.2Sd..	Yes	Y		1	.857	ELX	-.108	0																			
92	(0.9-0.2Sd..	Yes	Y		1	.857	ELX	-.094	ELZ	-.054																		
93	(0.9-0.2Sd..	Yes	Y		1	.857	ELX	-.076	ELZ	-.076																		
94	(0.9-0.2Sd..	Yes	Y		1	.857	ELX	-.054	ELZ	-.094																		
95	(0.9-0.2Sd..	Yes	Y		1	.857	0		ELZ	-.108																		
96	(0.9-0.2Sd..	Yes	Y		1	.857	ELX	.054	ELZ	-.094																		
97	(0.9-0.2Sd..	Yes	Y		1	.857	ELX	.076	ELZ	-.076																		
98	(0.9-0.2Sd..	Yes	Y		1	.857	ELX	.094	ELZ	-.054																		

Joint Loads and Enforced Displacements (BLC 35 : Lm)

	Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/ft..
1	N45A	L	Y	-.5

Joint Loads and Enforced Displacements (BLC 36 : Lv)

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

Member Point Loads (BLC 1 : Dead)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	Y	-.054	3.5
2	MP-2	Y	-.041	2.25
3	MP-2	Y	-.022	6.25
4	MP-3	Y	-.038	3.5
5	MP-1	Y	-.06	2
6	MP-1	Y	-.053	2
7	MP-1	Y	-.048	4
8	MP-3	Y	-.029	2
9	MP-3	Y	-.071	2
10	MP-3	Y	-.053	4
11	MP-10	Y	-.019	.5
12	MP-4	Y	-.054	3.5
13	MP-5	Y	-.041	2.25
14	MP-5	Y	-.022	6.25
15	MP-6	Y	-.038	3.5
16	MP-4	Y	-.06	2
17	MP-4	Y	-.053	2
18	MP-4	Y	-.048	4
19	MP-6	Y	-.071	2
20	MP-6	Y	-.053	4
21	MP-11	Y	-.019	.5
22	MP-7	Y	-.054	3.5
23	MP-8	Y	-.041	2.25
24	MP-8	Y	-.022	6.25
25	MP-9	Y	-.038	3.5
26	MP-7	Y	-.06	2
27	MP-7	Y	-.053	2
28	MP-7	Y	-.048	4
29	MP-9	Y	-.029	2
30	MP-9	Y	-.071	2
31	MP-9	Y	-.053	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
32	MP-12	Y	-.018	.5
33	MP-1	Y	-.054	6.5
34	MP-2	Y	-.041	3.75
35	MP-2	Y	-.022	7.75
36	MP-3	Y	-.038	6.5
37	MP-4	Y	-.054	6.5
38	MP-5	Y	-.041	3.75
39	MP-5	Y	-.022	7.75
40	MP-6	Y	-.038	6.5
41	MP-7	Y	-.054	6.5
42	MP-8	Y	-.041	3.75
43	MP-8	Y	-.022	7.75
44	MP-9	Y	-.038	6.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.207	3.5
2	MP-2	X	-.086	2.25
3	MP-2	X	-.09	6.25
4	MP-3	X	-.16	3.5
5	MP-1	X	-.045	2
6	MP-1	X	-.072	2
7	MP-1	X	-.031	4
8	MP-3	X	-.028	2
9	MP-3	X	-.06	2
10	MP-3	X	-.072	4
11	MP-10	X	-.036	.5
12	MP-4	X	-.119	3.5
13	MP-5	X	-.056	2.25
14	MP-5	X	-.055	6.25
15	MP-6	X	-.085	3.5
16	MP-4	X	-.071	2
17	MP-4	X	-.106	2
18	MP-4	X	-.061	4
19	MP-6	X	-.078	2
20	MP-6	X	-.106	4
21	MP-11	X	-.036	.5
22	MP-7	X	-.119	3.5
23	MP-8	X	-.056	2.25
24	MP-8	X	-.055	6.25
25	MP-9	X	-.085	3.5
26	MP-7	X	-.071	2
27	MP-7	X	-.106	2
28	MP-7	X	-.061	4
29	MP-9	X	-.039	2
30	MP-9	X	-.078	2
31	MP-9	X	-.106	4
32	MP-12	X	-.049	.5
33	MP-1	X	-.207	6.5
34	MP-2	X	-.086	3.75
35	MP-2	X	-.09	7.75
36	MP-3	X	-.16	6.5
37	MP-4	X	-.119	6.5
38	MP-5	X	-.056	3.75
39	MP-5	X	-.055	7.75
40	MP-6	X	-.085	6.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
41	MP-7	X	-.119	6.5
42	MP-8	X	-.056	3.75
43	MP-8	X	-.055	7.75
44	MP-9	X	-.085	6.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.154	3.5
2	MP-2	X	-.066	2.25
3	MP-2	X	-.068	6.25
4	MP-3	X	-.117	3.5
5	MP-1	X	-.047	2
6	MP-1	X	-.072	2
7	MP-1	X	-.035	4
8	MP-3	X	-.027	2
9	MP-3	X	-.058	2
10	MP-3	X	-.072	4
11	MP-10	X	-.032	.5
12	MP-4	X	-.078	3.5
13	MP-5	X	-.04	2.25
14	MP-5	X	-.037	6.25
15	MP-6	X	-.052	3.5
16	MP-4	X	-.068	2
17	MP-4	X	-.101	2
18	MP-4	X	-.061	4
19	MP-6	X	-.073	2
20	MP-6	X	-.101	4
21	MP-11	X	-.032	.5
22	MP-7	X	-.154	3.5
23	MP-8	X	-.066	2.25
24	MP-8	X	-.068	6.25
25	MP-9	X	-.117	3.5
26	MP-7	X	-.047	2
27	MP-7	X	-.072	2
28	MP-7	X	-.035	4
29	MP-9	X	-.027	2
30	MP-9	X	-.058	2
31	MP-9	X	-.072	4
32	MP-12	X	-.043	.5
33	MP-1	X	-.154	6.5
34	MP-2	X	-.066	3.75
35	MP-2	X	-.068	7.75
36	MP-3	X	-.117	6.5
37	MP-4	X	-.078	6.5
38	MP-5	X	-.04	3.75
39	MP-5	X	-.037	7.75
40	MP-6	X	-.052	6.5
41	MP-7	X	-.154	6.5
42	MP-8	X	-.066	3.75
43	MP-8	X	-.068	7.75
44	MP-9	X	-.117	6.5
45	MP-1	Z	-.089	3.5
46	MP-2	Z	-.038	2.25
47	MP-2	Z	-.039	6.25
48	MP-3	Z	-.068	3.5
49	MP-1	Z	-.027	2

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
50	MP-1	Z	-.041	2
51	MP-1	Z	-.02	4
52	MP-3	Z	-.016	2
53	MP-3	Z	-.033	2
54	MP-3	Z	-.041	4
55	MP-10	Z	-.018	.5
56	MP-4	Z	-.045	3.5
57	MP-5	Z	-.023	2.25
58	MP-5	Z	-.022	6.25
59	MP-6	Z	-.03	3.5
60	MP-4	Z	-.04	2
61	MP-4	Z	-.059	2
62	MP-4	Z	-.035	4
63	MP-6	Z	-.042	2
64	MP-6	Z	-.059	4
65	MP-11	Z	-.018	.5
66	MP-7	Z	-.089	3.5
67	MP-8	Z	-.038	2.25
68	MP-8	Z	-.039	6.25
69	MP-9	Z	-.068	3.5
70	MP-7	Z	-.027	2
71	MP-7	Z	-.041	2
72	MP-7	Z	-.02	4
73	MP-9	Z	-.016	2
74	MP-9	Z	-.033	2
75	MP-9	Z	-.041	4
76	MP-12	Z	-.025	.5
77	MP-1	Z	-.089	6.5
78	MP-2	Z	-.038	3.75
79	MP-2	Z	-.039	7.75
80	MP-3	Z	-.068	6.5
81	MP-4	Z	-.045	6.5
82	MP-5	Z	-.023	3.75
83	MP-5	Z	-.022	7.75
84	MP-6	Z	-.03	6.5
85	MP-7	Z	-.089	6.5
86	MP-8	Z	-.038	3.75
87	MP-8	Z	-.039	7.75
88	MP-9	Z	-.068	6.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.105	3.5
2	MP-2	X	-.047	2.25
3	MP-2	X	-.047	6.25
4	MP-3	X	-.078	3.5
5	MP-1	X	-.044	2
6	MP-1	X	-.067	2
7	MP-1	X	-.036	4
8	MP-3	X	-.025	2
9	MP-3	X	-.051	2
10	MP-3	X	-.067	4
11	MP-10	X	-.026	.5
12	MP-4	X	-.069	3.5
13	MP-5	X	-.034	2.25
14	MP-5	X	-.033	6.25

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
15	MP-6	X	-.047	3.5
16	MP-4	X	-.054	2
17	MP-4	X	-.081	2
18	MP-4	X	-.048	4
19	MP-6	X	-.059	2
20	MP-6	X	-.081	4
21	MP-11	X	-.026	.5
22	MP-7	X	-.141	3.5
23	MP-8	X	-.059	2.25
24	MP-8	X	-.061	6.25
25	MP-9	X	-.109	3.5
26	MP-7	X	-.034	2
27	MP-7	X	-.053	2
28	MP-7	X	-.024	4
29	MP-9	X	-.02	2
30	MP-9	X	-.044	2
31	MP-9	X	-.053	4
32	MP-12	X	-.035	.5
33	MP-1	X	-.105	6.5
34	MP-2	X	-.047	3.75
35	MP-2	X	-.047	7.75
36	MP-3	X	-.078	6.5
37	MP-4	X	-.069	6.5
38	MP-5	X	-.034	3.75
39	MP-5	X	-.033	7.75
40	MP-6	X	-.047	6.5
41	MP-7	X	-.141	6.5
42	MP-8	X	-.059	3.75
43	MP-8	X	-.061	7.75
44	MP-9	X	-.109	6.5
45	MP-1	Z	-.105	3.5
46	MP-2	Z	-.047	2.25
47	MP-2	Z	-.047	6.25
48	MP-3	Z	-.078	3.5
49	MP-1	Z	-.044	2
50	MP-1	Z	-.067	2
51	MP-1	Z	-.036	4
52	MP-3	Z	-.025	2
53	MP-3	Z	-.051	2
54	MP-3	Z	-.067	4
55	MP-10	Z	-.026	.5
56	MP-4	Z	-.069	3.5
57	MP-5	Z	-.034	2.25
58	MP-5	Z	-.033	6.25
59	MP-6	Z	-.047	3.5
60	MP-4	Z	-.054	2
61	MP-4	Z	-.081	2
62	MP-4	Z	-.048	4
63	MP-6	Z	-.059	2
64	MP-6	Z	-.081	4
65	MP-11	Z	-.026	.5
66	MP-7	Z	-.141	3.5
67	MP-8	Z	-.059	2.25
68	MP-8	Z	-.061	6.25
69	MP-9	Z	-.109	3.5
70	MP-7	Z	-.034	2
71	MP-7	Z	-.053	2

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
72	MP-7	Z	-.024	4
73	MP-9	Z	-.02	2
74	MP-9	Z	-.044	2
75	MP-9	Z	-.053	4
76	MP-12	Z	-.035	.5
77	MP-1	Z	-.105	6.5
78	MP-2	Z	-.047	3.75
79	MP-2	Z	-.047	7.75
80	MP-3	Z	-.078	6.5
81	MP-4	Z	-.069	6.5
82	MP-5	Z	-.034	3.75
83	MP-5	Z	-.033	7.75
84	MP-6	Z	-.047	6.5
85	MP-7	Z	-.141	6.5
86	MP-8	Z	-.059	3.75
87	MP-8	Z	-.061	7.75
88	MP-9	Z	-.109	6.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.06	3.5
2	MP-2	X	-.028	2.25
3	MP-2	X	-.027	6.25
4	MP-3	X	-.043	3.5
5	MP-1	X	-.035	2
6	MP-1	X	-.053	2
7	MP-1	X	-.03	4
8	MP-3	X	-.019	2
9	MP-3	X	-.039	2
10	MP-3	X	-.053	4
11	MP-10	X	-.018	.5
12	MP-4	X	-.06	3.5
13	MP-5	X	-.028	2.25
14	MP-5	X	-.027	6.25
15	MP-6	X	-.043	3.5
16	MP-4	X	-.035	2
17	MP-4	X	-.053	2
18	MP-4	X	-.03	4
19	MP-6	X	-.039	2
20	MP-6	X	-.053	4
21	MP-11	X	-.018	.5
22	MP-7	X	-.103	3.5
23	MP-8	X	-.043	2.25
24	MP-8	X	-.045	6.25
25	MP-9	X	-.08	3.5
26	MP-7	X	-.023	2
27	MP-7	X	-.036	2
28	MP-7	X	-.016	4
29	MP-9	X	-.014	2
30	MP-9	X	-.03	2
31	MP-9	X	-.036	4
32	MP-12	X	-.025	.5
33	MP-1	X	-.06	6.5
34	MP-2	X	-.028	3.75
35	MP-2	X	-.027	7.75
36	MP-3	X	-.043	6.5

Company : Tower Engineering Professionals
Designer : GJS
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Member Point Loads (BLC 5 : 60 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
37	MP-4	X	-.06	6.5
38	MP-5	X	-.028	3.75
39	MP-5	X	-.027	7.75
40	MP-6	X	-.043	6.5
41	MP-7	X	-.103	6.5
42	MP-8	X	-.043	3.75
43	MP-8	X	-.045	7.75
44	MP-9	X	-.08	6.5
45	MP-1	Z	-.103	3.5
46	MP-2	Z	-.048	2.25
47	MP-2	Z	-.047	6.25
48	MP-3	Z	-.074	3.5
49	MP-1	Z	-.061	2
50	MP-1	Z	-.092	2
51	MP-1	Z	-.053	4
52	MP-3	Z	-.034	2
53	MP-3	Z	-.068	2
54	MP-3	Z	-.092	4
55	MP-10	Z	-.032	.5
56	MP-4	Z	-.103	3.5
57	MP-5	Z	-.048	2.25
58	MP-5	Z	-.047	6.25
59	MP-6	Z	-.074	3.5
60	MP-4	Z	-.061	2
61	MP-4	Z	-.092	2
62	MP-4	Z	-.053	4
63	MP-6	Z	-.068	2
64	MP-6	Z	-.092	4
65	MP-11	Z	-.032	.5
66	MP-7	Z	-.179	3.5
67	MP-8	Z	-.075	2.25
68	MP-8	Z	-.078	6.25
69	MP-9	Z	-.139	3.5
70	MP-7	Z	-.039	2
71	MP-7	Z	-.062	2
72	MP-7	Z	-.027	4
73	MP-9	Z	-.024	2
74	MP-9	Z	-.052	2
75	MP-9	Z	-.062	4
76	MP-12	Z	-.043	.5
77	MP-1	Z	-.103	6.5
78	MP-2	Z	-.048	3.75
79	MP-2	Z	-.047	7.75
80	MP-3	Z	-.074	6.5
81	MP-4	Z	-.103	6.5
82	MP-5	Z	-.048	3.75
83	MP-5	Z	-.047	7.75
84	MP-6	Z	-.074	6.5
85	MP-7	Z	-.179	6.5
86	MP-8	Z	-.075	3.75
87	MP-8	Z	-.078	7.75
88	MP-9	Z	-.139	6.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	Z	-.09	3.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
2	MP-2	Z	-.046	2.25
3	MP-2	Z	-.043	6.25
4	MP-3	Z	-.06	3.5
5	MP-1	Z	-.079	2
6	MP-1	Z	-.117	2
7	MP-1	Z	-.071	4
8	MP-3	Z	-.042	2
9	MP-3	Z	-.084	2
10	MP-3	Z	-.117	4
11	MP-10	Z	-.036	.5
12	MP-4	Z	-.178	3.5
13	MP-5	Z	-.076	2.25
14	MP-5	Z	-.078	6.25
15	MP-6	Z	-.135	3.5
16	MP-4	Z	-.054	2
17	MP-4	Z	-.083	2
18	MP-4	Z	-.041	4
19	MP-6	Z	-.066	2
20	MP-6	Z	-.083	4
21	MP-11	Z	-.036	.5
22	MP-7	Z	-.178	3.5
23	MP-8	Z	-.076	2.25
24	MP-8	Z	-.078	6.25
25	MP-9	Z	-.135	3.5
26	MP-7	Z	-.054	2
27	MP-7	Z	-.083	2
28	MP-7	Z	-.041	4
29	MP-9	Z	-.031	2
30	MP-9	Z	-.066	2
31	MP-9	Z	-.083	4
32	MP-12	Z	-.049	.5
33	MP-1	Z	-.09	6.5
34	MP-2	Z	-.046	3.75
35	MP-2	Z	-.043	7.75
36	MP-3	Z	-.06	6.5
37	MP-4	Z	-.178	6.5
38	MP-5	Z	-.076	3.75
39	MP-5	Z	-.078	7.75
40	MP-6	Z	-.135	6.5
41	MP-7	Z	-.178	6.5
42	MP-8	Z	-.076	3.75
43	MP-8	Z	-.078	7.75
44	MP-9	Z	-.135	6.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.06	3.5
2	MP-2	X	.028	2.25
3	MP-2	X	.027	6.25
4	MP-3	X	.043	3.5
5	MP-1	X	.035	2
6	MP-1	X	.053	2
7	MP-1	X	.03	4
8	MP-3	X	.019	2
9	MP-3	X	.039	2
10	MP-3	X	.053	4

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
11	MP-10	X	.018	.5
12	MP-4	X	.103	3.5
13	MP-5	X	.043	2.25
14	MP-5	X	.045	6.25
15	MP-6	X	.08	3.5
16	MP-4	X	.023	2
17	MP-4	X	.036	2
18	MP-4	X	.016	4
19	MP-6	X	.03	2
20	MP-6	X	.036	4
21	MP-11	X	.018	.5
22	MP-7	X	.06	3.5
23	MP-8	X	.028	2.25
24	MP-8	X	.027	6.25
25	MP-9	X	.043	3.5
26	MP-7	X	.035	2
27	MP-7	X	.053	2
28	MP-7	X	.03	4
29	MP-9	X	.019	2
30	MP-9	X	.039	2
31	MP-9	X	.053	4
32	MP-12	X	.025	.5
33	MP-1	X	.06	6.5
34	MP-2	X	.028	3.75
35	MP-2	X	.027	7.75
36	MP-3	X	.043	6.5
37	MP-4	X	.103	6.5
38	MP-5	X	.043	3.75
39	MP-5	X	.045	7.75
40	MP-6	X	.08	6.5
41	MP-7	X	.06	6.5
42	MP-8	X	.028	3.75
43	MP-8	X	.027	7.75
44	MP-9	X	.043	6.5
45	MP-1	Z	-.103	3.5
46	MP-2	Z	-.048	2.25
47	MP-2	Z	-.047	6.25
48	MP-3	Z	-.074	3.5
49	MP-1	Z	-.061	2
50	MP-1	Z	-.092	2
51	MP-1	Z	-.053	4
52	MP-3	Z	-.034	2
53	MP-3	Z	-.068	2
54	MP-3	Z	-.092	4
55	MP-10	Z	-.032	.5
56	MP-4	Z	-.179	3.5
57	MP-5	Z	-.075	2.25
58	MP-5	Z	-.078	6.25
59	MP-6	Z	-.139	3.5
60	MP-4	Z	-.039	2
61	MP-4	Z	-.062	2
62	MP-4	Z	-.027	4
63	MP-6	Z	-.052	2
64	MP-6	Z	-.062	4
65	MP-11	Z	-.032	.5
66	MP-7	Z	-.103	3.5
67	MP-8	Z	-.048	2.25

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
68	MP-8	Z	-.047	6.25
69	MP-9	Z	-.074	3.5
70	MP-7	Z	-.061	2
71	MP-7	Z	-.092	2
72	MP-7	Z	-.053	4
73	MP-9	Z	-.034	2
74	MP-9	Z	-.068	2
75	MP-9	Z	-.092	4
76	MP-12	Z	-.043	.5
77	MP-1	Z	-.103	6.5
78	MP-2	Z	-.048	3.75
79	MP-2	Z	-.047	7.75
80	MP-3	Z	-.074	6.5
81	MP-4	Z	-.179	6.5
82	MP-5	Z	-.075	3.75
83	MP-5	Z	-.078	7.75
84	MP-6	Z	-.139	6.5
85	MP-7	Z	-.103	6.5
86	MP-8	Z	-.048	3.75
87	MP-8	Z	-.047	7.75
88	MP-9	Z	-.074	6.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.105	3.5
2	MP-2	X	.047	2.25
3	MP-2	X	.047	6.25
4	MP-3	X	.078	3.5
5	MP-1	X	.044	2
6	MP-1	X	.067	2
7	MP-1	X	.036	4
8	MP-3	X	.025	2
9	MP-3	X	.051	2
10	MP-3	X	.067	4
11	MP-10	X	.026	.5
12	MP-4	X	.141	3.5
13	MP-5	X	.059	2.25
14	MP-5	X	.061	6.25
15	MP-6	X	.109	3.5
16	MP-4	X	.034	2
17	MP-4	X	.053	2
18	MP-4	X	.024	4
19	MP-6	X	.044	2
20	MP-6	X	.053	4
21	MP-11	X	.026	.5
22	MP-7	X	.069	3.5
23	MP-8	X	.034	2.25
24	MP-8	X	.033	6.25
25	MP-9	X	.047	3.5
26	MP-7	X	.054	2
27	MP-7	X	.081	2
28	MP-7	X	.048	4
29	MP-9	X	.029	2
30	MP-9	X	.059	2
31	MP-9	X	.081	4
32	MP-12	X	.035	.5

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
33	MP-1	X	.105	6.5
34	MP-2	X	.047	3.75
35	MP-2	X	.047	7.75
36	MP-3	X	.078	6.5
37	MP-4	X	.141	6.5
38	MP-5	X	.059	3.75
39	MP-5	X	.061	7.75
40	MP-6	X	.109	6.5
41	MP-7	X	.069	6.5
42	MP-8	X	.034	3.75
43	MP-8	X	.033	7.75
44	MP-9	X	.047	6.5
45	MP-1	Z	-.105	3.5
46	MP-2	Z	-.047	2.25
47	MP-2	Z	-.047	6.25
48	MP-3	Z	-.078	3.5
49	MP-1	Z	-.044	2
50	MP-1	Z	-.067	2
51	MP-1	Z	-.036	4
52	MP-3	Z	-.025	2
53	MP-3	Z	-.051	2
54	MP-3	Z	-.067	4
55	MP-10	Z	-.026	.5
56	MP-4	Z	-.141	3.5
57	MP-5	Z	-.059	2.25
58	MP-5	Z	-.061	6.25
59	MP-6	Z	-.109	3.5
60	MP-4	Z	-.034	2
61	MP-4	Z	-.053	2
62	MP-4	Z	-.024	4
63	MP-6	Z	-.044	2
64	MP-6	Z	-.053	4
65	MP-11	Z	-.026	.5
66	MP-7	Z	-.069	3.5
67	MP-8	Z	-.034	2.25
68	MP-8	Z	-.033	6.25
69	MP-9	Z	-.047	3.5
70	MP-7	Z	-.054	2
71	MP-7	Z	-.081	2
72	MP-7	Z	-.048	4
73	MP-9	Z	-.029	2
74	MP-9	Z	-.059	2
75	MP-9	Z	-.081	4
76	MP-12	Z	-.035	.5
77	MP-1	Z	-.105	6.5
78	MP-2	Z	-.047	3.75
79	MP-2	Z	-.047	7.75
80	MP-3	Z	-.078	6.5
81	MP-4	Z	-.141	6.5
82	MP-5	Z	-.059	3.75
83	MP-5	Z	-.061	7.75
84	MP-6	Z	-.109	6.5
85	MP-7	Z	-.069	6.5
86	MP-8	Z	-.034	3.75
87	MP-8	Z	-.033	7.75
88	MP-9	Z	-.047	6.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.154	3.5
2	MP-2	X	.066	2.25
3	MP-2	X	.068	6.25
4	MP-3	X	.117	3.5
5	MP-1	X	.047	2
6	MP-1	X	.072	2
7	MP-1	X	.035	4
8	MP-3	X	.027	2
9	MP-3	X	.058	2
10	MP-3	X	.072	4
11	MP-10	X	.032	.5
12	MP-4	X	.154	3.5
13	MP-5	X	.066	2.25
14	MP-5	X	.068	6.25
15	MP-6	X	.117	3.5
16	MP-4	X	.047	2
17	MP-4	X	.072	2
18	MP-4	X	.035	4
19	MP-6	X	.058	2
20	MP-6	X	.072	4
21	MP-11	X	.032	.5
22	MP-7	X	.078	3.5
23	MP-8	X	.04	2.25
24	MP-8	X	.037	6.25
25	MP-9	X	.052	3.5
26	MP-7	X	.068	2
27	MP-7	X	.101	2
28	MP-7	X	.061	4
29	MP-9	X	.037	2
30	MP-9	X	.073	2
31	MP-9	X	.101	4
32	MP-12	X	.043	.5
33	MP-1	X	.154	6.5
34	MP-2	X	.066	3.75
35	MP-2	X	.068	7.75
36	MP-3	X	.117	6.5
37	MP-4	X	.154	6.5
38	MP-5	X	.066	3.75
39	MP-5	X	.068	7.75
40	MP-6	X	.117	6.5
41	MP-7	X	.078	6.5
42	MP-8	X	.04	3.75
43	MP-8	X	.037	7.75
44	MP-9	X	.052	6.5
45	MP-1	Z	-.089	3.5
46	MP-2	Z	-.038	2.25
47	MP-2	Z	-.039	6.25
48	MP-3	Z	-.068	3.5
49	MP-1	Z	-.027	2
50	MP-1	Z	-.041	2
51	MP-1	Z	-.02	4
52	MP-3	Z	-.016	2
53	MP-3	Z	-.033	2
54	MP-3	Z	-.041	4
55	MP-10	Z	-.018	.5
56	MP-4	Z	-.089	3.5
57	MP-5	Z	-.038	2.25

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
58	MP-5	Z	-.039	6.25
59	MP-6	Z	-.068	3.5
60	MP-4	Z	-.027	2
61	MP-4	Z	-.041	2
62	MP-4	Z	-.02	4
63	MP-6	Z	-.033	2
64	MP-6	Z	-.041	4
65	MP-11	Z	-.018	.5
66	MP-7	Z	-.045	3.5
67	MP-8	Z	-.023	2.25
68	MP-8	Z	-.022	6.25
69	MP-9	Z	-.03	3.5
70	MP-7	Z	-.04	2
71	MP-7	Z	-.059	2
72	MP-7	Z	-.035	4
73	MP-9	Z	-.021	2
74	MP-9	Z	-.042	2
75	MP-9	Z	-.059	4
76	MP-12	Z	-.025	.5
77	MP-1	Z	-.089	6.5
78	MP-2	Z	-.038	3.75
79	MP-2	Z	-.039	7.75
80	MP-3	Z	-.068	6.5
81	MP-4	Z	-.089	6.5
82	MP-5	Z	-.038	3.75
83	MP-5	Z	-.039	7.75
84	MP-6	Z	-.068	6.5
85	MP-7	Z	-.045	6.5
86	MP-8	Z	-.023	3.75
87	MP-8	Z	-.022	7.75
88	MP-9	Z	-.03	6.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.207	3.5
2	MP-2	X	.086	2.25
3	MP-2	X	.09	6.25
4	MP-3	X	.16	3.5
5	MP-1	X	.045	2
6	MP-1	X	.072	2
7	MP-1	X	.031	4
8	MP-3	X	.028	2
9	MP-3	X	.06	2
10	MP-3	X	.072	4
11	MP-10	X	.036	.5
12	MP-4	X	.119	3.5
13	MP-5	X	.056	2.25
14	MP-5	X	.055	6.25
15	MP-6	X	.085	3.5
16	MP-4	X	.071	2
17	MP-4	X	.106	2
18	MP-4	X	.061	4
19	MP-6	X	.078	2
20	MP-6	X	.106	4
21	MP-11	X	.036	.5
22	MP-7	X	.119	3.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
23	MP-8	X	.056	2.25
24	MP-8	X	.055	6.25
25	MP-9	X	.085	3.5
26	MP-7	X	.071	2
27	MP-7	X	.106	2
28	MP-7	X	.061	4
29	MP-9	X	.039	2
30	MP-9	X	.078	2
31	MP-9	X	.106	4
32	MP-12	X	.049	.5
33	MP-1	X	.207	6.5
34	MP-2	X	.086	3.75
35	MP-2	X	.09	7.75
36	MP-3	X	.16	6.5
37	MP-4	X	.119	6.5
38	MP-5	X	.056	3.75
39	MP-5	X	.055	7.75
40	MP-6	X	.085	6.5
41	MP-7	X	.119	6.5
42	MP-8	X	.056	3.75
43	MP-8	X	.055	7.75
44	MP-9	X	.085	6.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.154	3.5
2	MP-2	X	.066	2.25
3	MP-2	X	.068	6.25
4	MP-3	X	.117	3.5
5	MP-1	X	.047	2
6	MP-1	X	.072	2
7	MP-1	X	.035	4
8	MP-3	X	.027	2
9	MP-3	X	.058	2
10	MP-3	X	.072	4
11	MP-10	X	.032	.5
12	MP-4	X	.078	3.5
13	MP-5	X	.04	2.25
14	MP-5	X	.037	6.25
15	MP-6	X	.052	3.5
16	MP-4	X	.068	2
17	MP-4	X	.101	2
18	MP-4	X	.061	4
19	MP-6	X	.073	2
20	MP-6	X	.101	4
21	MP-11	X	.032	.5
22	MP-7	X	.154	3.5
23	MP-8	X	.066	2.25
24	MP-8	X	.068	6.25
25	MP-9	X	.117	3.5
26	MP-7	X	.047	2
27	MP-7	X	.072	2
28	MP-7	X	.035	4
29	MP-9	X	.027	2
30	MP-9	X	.058	2
31	MP-9	X	.072	4

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
32	MP-12	X	.043	.5
33	MP-1	X	.154	6.5
34	MP-2	X	.066	3.75
35	MP-2	X	.068	7.75
36	MP-3	X	.117	6.5
37	MP-4	X	.078	6.5
38	MP-5	X	.04	3.75
39	MP-5	X	.037	7.75
40	MP-6	X	.052	6.5
41	MP-7	X	.154	6.5
42	MP-8	X	.066	3.75
43	MP-8	X	.068	7.75
44	MP-9	X	.117	6.5
45	MP-1	Z	.089	3.5
46	MP-2	Z	.038	2.25
47	MP-2	Z	.039	6.25
48	MP-3	Z	.068	3.5
49	MP-1	Z	.027	2
50	MP-1	Z	.041	2
51	MP-1	Z	.02	4
52	MP-3	Z	.016	2
53	MP-3	Z	.033	2
54	MP-3	Z	.041	4
55	MP-10	Z	.018	.5
56	MP-4	Z	.045	3.5
57	MP-5	Z	.023	2.25
58	MP-5	Z	.022	6.25
59	MP-6	Z	.03	3.5
60	MP-4	Z	.04	2
61	MP-4	Z	.059	2
62	MP-4	Z	.035	4
63	MP-6	Z	.042	2
64	MP-6	Z	.059	4
65	MP-11	Z	.018	.5
66	MP-7	Z	.089	3.5
67	MP-8	Z	.038	2.25
68	MP-8	Z	.039	6.25
69	MP-9	Z	.068	3.5
70	MP-7	Z	.027	2
71	MP-7	Z	.041	2
72	MP-7	Z	.02	4
73	MP-9	Z	.016	2
74	MP-9	Z	.033	2
75	MP-9	Z	.041	4
76	MP-12	Z	.025	.5
77	MP-1	Z	.089	6.5
78	MP-2	Z	.038	3.75
79	MP-2	Z	.039	7.75
80	MP-3	Z	.068	6.5
81	MP-4	Z	.045	6.5
82	MP-5	Z	.023	3.75
83	MP-5	Z	.022	7.75
84	MP-6	Z	.03	6.5
85	MP-7	Z	.089	6.5
86	MP-8	Z	.038	3.75
87	MP-8	Z	.039	7.75
88	MP-9	Z	.068	6.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.105	3.5
2	MP-2	X	.047	2.25
3	MP-2	X	.047	6.25
4	MP-3	X	.078	3.5
5	MP-1	X	.044	2
6	MP-1	X	.067	2
7	MP-1	X	.036	4
8	MP-3	X	.025	2
9	MP-3	X	.051	2
10	MP-3	X	.067	4
11	MP-10	X	.026	.5
12	MP-4	X	.069	3.5
13	MP-5	X	.034	2.25
14	MP-5	X	.033	6.25
15	MP-6	X	.047	3.5
16	MP-4	X	.054	2
17	MP-4	X	.081	2
18	MP-4	X	.048	4
19	MP-6	X	.059	2
20	MP-6	X	.081	4
21	MP-11	X	.026	.5
22	MP-7	X	.141	3.5
23	MP-8	X	.059	2.25
24	MP-8	X	.061	6.25
25	MP-9	X	.109	3.5
26	MP-7	X	.034	2
27	MP-7	X	.053	2
28	MP-7	X	.024	4
29	MP-9	X	.02	2
30	MP-9	X	.044	2
31	MP-9	X	.053	4
32	MP-12	X	.035	.5
33	MP-1	X	.105	6.5
34	MP-2	X	.047	3.75
35	MP-2	X	.047	7.75
36	MP-3	X	.078	6.5
37	MP-4	X	.069	6.5
38	MP-5	X	.034	3.75
39	MP-5	X	.033	7.75
40	MP-6	X	.047	6.5
41	MP-7	X	.141	6.5
42	MP-8	X	.059	3.75
43	MP-8	X	.061	7.75
44	MP-9	X	.109	6.5
45	MP-1	Z	.105	3.5
46	MP-2	Z	.047	2.25
47	MP-2	Z	.047	6.25
48	MP-3	Z	.078	3.5
49	MP-1	Z	.044	2
50	MP-1	Z	.067	2
51	MP-1	Z	.036	4
52	MP-3	Z	.025	2
53	MP-3	Z	.051	2
54	MP-3	Z	.067	4
55	MP-10	Z	.026	.5
56	MP-4	Z	.069	3.5
57	MP-5	Z	.034	2.25

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
58	MP-5	Z	.033	6.25
59	MP-6	Z	.047	3.5
60	MP-4	Z	.054	2
61	MP-4	Z	.081	2
62	MP-4	Z	.048	4
63	MP-6	Z	.059	2
64	MP-6	Z	.081	4
65	MP-11	Z	.026	.5
66	MP-7	Z	.141	3.5
67	MP-8	Z	.059	2.25
68	MP-8	Z	.061	6.25
69	MP-9	Z	.109	3.5
70	MP-7	Z	.034	2
71	MP-7	Z	.053	2
72	MP-7	Z	.024	4
73	MP-9	Z	.02	2
74	MP-9	Z	.044	2
75	MP-9	Z	.053	4
76	MP-12	Z	.035	.5
77	MP-1	Z	.105	6.5
78	MP-2	Z	.047	3.75
79	MP-2	Z	.047	7.75
80	MP-3	Z	.078	6.5
81	MP-4	Z	.069	6.5
82	MP-5	Z	.034	3.75
83	MP-5	Z	.033	7.75
84	MP-6	Z	.047	6.5
85	MP-7	Z	.141	6.5
86	MP-8	Z	.059	3.75
87	MP-8	Z	.061	7.75
88	MP-9	Z	.109	6.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.06	3.5
2	MP-2	X	.028	2.25
3	MP-2	X	.027	6.25
4	MP-3	X	.043	3.5
5	MP-1	X	.035	2
6	MP-1	X	.053	2
7	MP-1	X	.03	4
8	MP-3	X	.019	2
9	MP-3	X	.039	2
10	MP-3	X	.053	4
11	MP-10	X	.018	.5
12	MP-4	X	.06	3.5
13	MP-5	X	.028	2.25
14	MP-5	X	.027	6.25
15	MP-6	X	.043	3.5
16	MP-4	X	.035	2
17	MP-4	X	.053	2
18	MP-4	X	.03	4
19	MP-6	X	.039	2
20	MP-6	X	.053	4
21	MP-11	X	.018	.5
22	MP-7	X	.103	3.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
23	MP-8	X	.043	2.25
24	MP-8	X	.045	6.25
25	MP-9	X	.08	3.5
26	MP-7	X	.023	2
27	MP-7	X	.036	2
28	MP-7	X	.016	4
29	MP-9	X	.014	2
30	MP-9	X	.03	2
31	MP-9	X	.036	4
32	MP-12	X	.025	.5
33	MP-1	X	.06	6.5
34	MP-2	X	.028	3.75
35	MP-2	X	.027	7.75
36	MP-3	X	.043	6.5
37	MP-4	X	.06	6.5
38	MP-5	X	.028	3.75
39	MP-5	X	.027	7.75
40	MP-6	X	.043	6.5
41	MP-7	X	.103	6.5
42	MP-8	X	.043	3.75
43	MP-8	X	.045	7.75
44	MP-9	X	.08	6.5
45	MP-1	Z	.103	3.5
46	MP-2	Z	.048	2.25
47	MP-2	Z	.047	6.25
48	MP-3	Z	.074	3.5
49	MP-1	Z	.061	2
50	MP-1	Z	.092	2
51	MP-1	Z	.053	4
52	MP-3	Z	.034	2
53	MP-3	Z	.068	2
54	MP-3	Z	.092	4
55	MP-10	Z	.032	.5
56	MP-4	Z	.103	3.5
57	MP-5	Z	.048	2.25
58	MP-5	Z	.047	6.25
59	MP-6	Z	.074	3.5
60	MP-4	Z	.061	2
61	MP-4	Z	.092	2
62	MP-4	Z	.053	4
63	MP-6	Z	.068	2
64	MP-6	Z	.092	4
65	MP-11	Z	.032	.5
66	MP-7	Z	.179	3.5
67	MP-8	Z	.075	2.25
68	MP-8	Z	.078	6.25
69	MP-9	Z	.139	3.5
70	MP-7	Z	.039	2
71	MP-7	Z	.062	2
72	MP-7	Z	.027	4
73	MP-9	Z	.024	2
74	MP-9	Z	.052	2
75	MP-9	Z	.062	4
76	MP-12	Z	.043	.5
77	MP-1	Z	.103	6.5
78	MP-2	Z	.048	3.75
79	MP-2	Z	.047	7.75

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
80	MP-3	Z	.074	6.5
81	MP-4	Z	.103	6.5
82	MP-5	Z	.048	3.75
83	MP-5	Z	.047	7.75
84	MP-6	Z	.074	6.5
85	MP-7	Z	.179	6.5
86	MP-8	Z	.075	3.75
87	MP-8	Z	.078	7.75
88	MP-9	Z	.139	6.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	Z	.09	3.5
2	MP-2	Z	.046	2.25
3	MP-2	Z	.043	6.25
4	MP-3	Z	.06	3.5
5	MP-1	Z	.079	2
6	MP-1	Z	.117	2
7	MP-1	Z	.071	4
8	MP-3	Z	.042	2
9	MP-3	Z	.084	2
10	MP-3	Z	.117	4
11	MP-10	Z	.036	.5
12	MP-4	Z	.178	3.5
13	MP-5	Z	.076	2.25
14	MP-5	Z	.078	6.25
15	MP-6	Z	.135	3.5
16	MP-4	Z	.054	2
17	MP-4	Z	.083	2
18	MP-4	Z	.041	4
19	MP-6	Z	.066	2
20	MP-6	Z	.083	4
21	MP-11	Z	.036	.5
22	MP-7	Z	.178	3.5
23	MP-8	Z	.076	2.25
24	MP-8	Z	.078	6.25
25	MP-9	Z	.135	3.5
26	MP-7	Z	.054	2
27	MP-7	Z	.083	2
28	MP-7	Z	.041	4
29	MP-9	Z	.031	2
30	MP-9	Z	.066	2
31	MP-9	Z	.083	4
32	MP-12	Z	.049	.5
33	MP-1	Z	.09	6.5
34	MP-2	Z	.046	3.75
35	MP-2	Z	.043	7.75
36	MP-3	Z	.06	6.5
37	MP-4	Z	.178	6.5
38	MP-5	Z	.076	3.75
39	MP-5	Z	.078	7.75
40	MP-6	Z	.135	6.5
41	MP-7	Z	.178	6.5
42	MP-8	Z	.076	3.75
43	MP-8	Z	.078	7.75
44	MP-9	Z	.135	6.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.06	3.5
2	MP-2	X	-.028	2.25
3	MP-2	X	-.027	6.25
4	MP-3	X	-.043	3.5
5	MP-1	X	-.035	2
6	MP-1	X	-.053	2
7	MP-1	X	-.03	4
8	MP-3	X	-.019	2
9	MP-3	X	-.039	2
10	MP-3	X	-.053	4
11	MP-10	X	-.018	.5
12	MP-4	X	-.103	3.5
13	MP-5	X	-.043	2.25
14	MP-5	X	-.045	6.25
15	MP-6	X	-.08	3.5
16	MP-4	X	-.023	2
17	MP-4	X	-.036	2
18	MP-4	X	-.016	4
19	MP-6	X	-.03	2
20	MP-6	X	-.036	4
21	MP-11	X	-.018	.5
22	MP-7	X	-.06	3.5
23	MP-8	X	-.028	2.25
24	MP-8	X	-.027	6.25
25	MP-9	X	-.043	3.5
26	MP-7	X	-.035	2
27	MP-7	X	-.053	2
28	MP-7	X	-.03	4
29	MP-9	X	-.019	2
30	MP-9	X	-.039	2
31	MP-9	X	-.053	4
32	MP-12	X	-.025	.5
33	MP-1	X	-.06	6.5
34	MP-2	X	-.028	3.75
35	MP-2	X	-.027	7.75
36	MP-3	X	-.043	6.5
37	MP-4	X	-.103	6.5
38	MP-5	X	-.043	3.75
39	MP-5	X	-.045	7.75
40	MP-6	X	-.08	6.5
41	MP-7	X	-.06	6.5
42	MP-8	X	-.028	3.75
43	MP-8	X	-.027	7.75
44	MP-9	X	-.043	6.5
45	MP-1	Z	.103	3.5
46	MP-2	Z	.048	2.25
47	MP-2	Z	.047	6.25
48	MP-3	Z	.074	3.5
49	MP-1	Z	.061	2
50	MP-1	Z	.092	2
51	MP-1	Z	.053	4
52	MP-3	Z	.034	2
53	MP-3	Z	.068	2
54	MP-3	Z	.092	4
55	MP-10	Z	.032	.5
56	MP-4	Z	.179	3.5
57	MP-5	Z	.075	2.25

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
58	MP-5	Z	.078	6.25
59	MP-6	Z	.139	3.5
60	MP-4	Z	.039	2
61	MP-4	Z	.062	2
62	MP-4	Z	.027	4
63	MP-6	Z	.052	2
64	MP-6	Z	.062	4
65	MP-11	Z	.032	.5
66	MP-7	Z	.103	3.5
67	MP-8	Z	.048	2.25
68	MP-8	Z	.047	6.25
69	MP-9	Z	.074	3.5
70	MP-7	Z	.061	2
71	MP-7	Z	.092	2
72	MP-7	Z	.053	4
73	MP-9	Z	.034	2
74	MP-9	Z	.068	2
75	MP-9	Z	.092	4
76	MP-12	Z	.043	.5
77	MP-1	Z	.103	6.5
78	MP-2	Z	.048	3.75
79	MP-2	Z	.047	7.75
80	MP-3	Z	.074	6.5
81	MP-4	Z	.179	6.5
82	MP-5	Z	.075	3.75
83	MP-5	Z	.078	7.75
84	MP-6	Z	.139	6.5
85	MP-7	Z	.103	6.5
86	MP-8	Z	.048	3.75
87	MP-8	Z	.047	7.75
88	MP-9	Z	.074	6.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.105	3.5
2	MP-2	X	-.047	2.25
3	MP-2	X	-.047	6.25
4	MP-3	X	-.078	3.5
5	MP-1	X	-.044	2
6	MP-1	X	-.067	2
7	MP-1	X	-.036	4
8	MP-3	X	-.025	2
9	MP-3	X	-.051	2
10	MP-3	X	-.067	4
11	MP-10	X	-.026	.5
12	MP-4	X	-.141	3.5
13	MP-5	X	-.059	2.25
14	MP-5	X	-.061	6.25
15	MP-6	X	-.109	3.5
16	MP-4	X	-.034	2
17	MP-4	X	-.053	2
18	MP-4	X	-.024	4
19	MP-6	X	-.044	2
20	MP-6	X	-.053	4
21	MP-11	X	-.026	.5
22	MP-7	X	-.069	3.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
23	MP-8	X	-.034	2.25
24	MP-8	X	-.033	6.25
25	MP-9	X	-.047	3.5
26	MP-7	X	-.054	2
27	MP-7	X	-.081	2
28	MP-7	X	-.048	4
29	MP-9	X	-.029	2
30	MP-9	X	-.059	2
31	MP-9	X	-.081	4
32	MP-12	X	-.035	.5
33	MP-1	X	-.105	6.5
34	MP-2	X	-.047	3.75
35	MP-2	X	-.047	7.75
36	MP-3	X	-.078	6.5
37	MP-4	X	-.141	6.5
38	MP-5	X	-.059	3.75
39	MP-5	X	-.061	7.75
40	MP-6	X	-.109	6.5
41	MP-7	X	-.069	6.5
42	MP-8	X	-.034	3.75
43	MP-8	X	-.033	7.75
44	MP-9	X	-.047	6.5
45	MP-1	Z	.105	3.5
46	MP-2	Z	.047	2.25
47	MP-2	Z	.047	6.25
48	MP-3	Z	.078	3.5
49	MP-1	Z	.044	2
50	MP-1	Z	.067	2
51	MP-1	Z	.036	4
52	MP-3	Z	.025	2
53	MP-3	Z	.051	2
54	MP-3	Z	.067	4
55	MP-10	Z	.026	.5
56	MP-4	Z	.141	3.5
57	MP-5	Z	.059	2.25
58	MP-5	Z	.061	6.25
59	MP-6	Z	.109	3.5
60	MP-4	Z	.034	2
61	MP-4	Z	.053	2
62	MP-4	Z	.024	4
63	MP-6	Z	.044	2
64	MP-6	Z	.053	4
65	MP-11	Z	.026	.5
66	MP-7	Z	.069	3.5
67	MP-8	Z	.034	2.25
68	MP-8	Z	.033	6.25
69	MP-9	Z	.047	3.5
70	MP-7	Z	.054	2
71	MP-7	Z	.081	2
72	MP-7	Z	.048	4
73	MP-9	Z	.029	2
74	MP-9	Z	.059	2
75	MP-9	Z	.081	4
76	MP-12	Z	.035	.5
77	MP-1	Z	.105	6.5
78	MP-2	Z	.047	3.75
79	MP-2	Z	.047	7.75

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
80	MP-3	Z	.078	6.5
81	MP-4	Z	.141	6.5
82	MP-5	Z	.059	3.75
83	MP-5	Z	.061	7.75
84	MP-6	Z	.109	6.5
85	MP-7	Z	.069	6.5
86	MP-8	Z	.034	3.75
87	MP-8	Z	.033	7.75
88	MP-9	Z	.047	6.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.154	3.5
2	MP-2	X	-.066	2.25
3	MP-2	X	-.068	6.25
4	MP-3	X	-.117	3.5
5	MP-1	X	-.047	2
6	MP-1	X	-.072	2
7	MP-1	X	-.035	4
8	MP-3	X	-.027	2
9	MP-3	X	-.058	2
10	MP-3	X	-.072	4
11	MP-10	X	-.032	.5
12	MP-4	X	-.154	3.5
13	MP-5	X	-.066	2.25
14	MP-5	X	-.068	6.25
15	MP-6	X	-.117	3.5
16	MP-4	X	-.047	2
17	MP-4	X	-.072	2
18	MP-4	X	-.035	4
19	MP-6	X	-.058	2
20	MP-6	X	-.072	4
21	MP-11	X	-.032	.5
22	MP-7	X	-.078	3.5
23	MP-8	X	-.04	2.25
24	MP-8	X	-.037	6.25
25	MP-9	X	-.052	3.5
26	MP-7	X	-.068	2
27	MP-7	X	-.101	2
28	MP-7	X	-.061	4
29	MP-9	X	-.037	2
30	MP-9	X	-.073	2
31	MP-9	X	-.101	4
32	MP-12	X	-.043	.5
33	MP-1	X	-.154	6.5
34	MP-2	X	-.066	3.75
35	MP-2	X	-.068	7.75
36	MP-3	X	-.117	6.5
37	MP-4	X	-.154	6.5
38	MP-5	X	-.066	3.75
39	MP-5	X	-.068	7.75
40	MP-6	X	-.117	6.5
41	MP-7	X	-.078	6.5
42	MP-8	X	-.04	3.75
43	MP-8	X	-.037	7.75
44	MP-9	X	-.052	6.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
45	MP-1	Z	.089	3.5
46	MP-2	Z	.038	2.25
47	MP-2	Z	.039	6.25
48	MP-3	Z	.068	3.5
49	MP-1	Z	.027	2
50	MP-1	Z	.041	2
51	MP-1	Z	.02	4
52	MP-3	Z	.016	2
53	MP-3	Z	.033	2
54	MP-3	Z	.041	4
55	MP-10	Z	.018	.5
56	MP-4	Z	.089	3.5
57	MP-5	Z	.038	2.25
58	MP-5	Z	.039	6.25
59	MP-6	Z	.068	3.5
60	MP-4	Z	.027	2
61	MP-4	Z	.041	2
62	MP-4	Z	.02	4
63	MP-6	Z	.033	2
64	MP-6	Z	.041	4
65	MP-11	Z	.018	.5
66	MP-7	Z	.045	3.5
67	MP-8	Z	.023	2.25
68	MP-8	Z	.022	6.25
69	MP-9	Z	.03	3.5
70	MP-7	Z	.04	2
71	MP-7	Z	.059	2
72	MP-7	Z	.035	4
73	MP-9	Z	.021	2
74	MP-9	Z	.042	2
75	MP-9	Z	.059	4
76	MP-12	Z	.025	.5
77	MP-1	Z	.089	6.5
78	MP-2	Z	.038	3.75
79	MP-2	Z	.039	7.75
80	MP-3	Z	.068	6.5
81	MP-4	Z	.089	6.5
82	MP-5	Z	.038	3.75
83	MP-5	Z	.039	7.75
84	MP-6	Z	.068	6.5
85	MP-7	Z	.045	6.5
86	MP-8	Z	.023	3.75
87	MP-8	Z	.022	7.75
88	MP-9	Z	.03	6.5

Member Point Loads (BLC 18 : Ice Weight)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	Y	-.076	3.5
2	MP-2	Y	-.037	2.25
3	MP-2	Y	-.037	6.25
4	MP-3	Y	-.064	3.5
5	MP-1	Y	-.041	2
6	MP-1	Y	-.054	2
7	MP-1	Y	-.033	4
8	MP-3	Y	-.026	2
9	MP-3	Y	-.047	2

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
10	MP-3	Y	-.054	4
11	MP-10	Y	-.035	.5
12	MP-4	Y	-.076	3.5
13	MP-5	Y	-.037	2.25
14	MP-5	Y	-.037	6.25
15	MP-6	Y	-.064	3.5
16	MP-4	Y	-.041	2
17	MP-4	Y	-.054	2
18	MP-4	Y	-.033	4
19	MP-6	Y	-.047	2
20	MP-6	Y	-.054	4
21	MP-11	Y	-.035	.5
22	MP-7	Y	-.076	3.5
23	MP-8	Y	-.037	2.25
24	MP-8	Y	-.037	6.25
25	MP-9	Y	-.064	3.5
26	MP-7	Y	-.041	2
27	MP-7	Y	-.054	2
28	MP-7	Y	-.033	4
29	MP-9	Y	-.026	2
30	MP-9	Y	-.047	2
31	MP-9	Y	-.054	4
32	MP-12	Y	-.045	.5
33	MP-1	Y	-.076	6.5
34	MP-2	Y	-.037	3.75
35	MP-2	Y	-.037	7.75
36	MP-3	Y	-.064	6.5
37	MP-4	Y	-.076	6.5
38	MP-5	Y	-.037	3.75
39	MP-5	Y	-.037	7.75
40	MP-6	Y	-.064	6.5
41	MP-7	Y	-.076	6.5
42	MP-8	Y	-.037	3.75
43	MP-8	Y	-.037	7.75
44	MP-9	Y	-.064	6.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.041	3.5
2	MP-2	X	-.018	2.25
3	MP-2	X	-.019	6.25
4	MP-3	X	-.032	3.5
5	MP-1	X	-.018	2
6	MP-1	X	-.026	2
7	MP-1	X	-.017	4
8	MP-3	X	-.011	2
9	MP-3	X	-.019	2
10	MP-3	X	-.026	4
11	MP-10	X	-.008	.5
12	MP-4	X	-.041	3.5
13	MP-5	X	-.018	2.25
14	MP-5	X	-.019	6.25
15	MP-6	X	-.032	3.5
16	MP-4	X	-.018	2
17	MP-4	X	-.026	2
18	MP-4	X	-.017	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
19	MP-6	X	-.019	2
20	MP-6	X	-.026	4
21	MP-11	X	-.008	.5
22	MP-7	X	-.041	3.5
23	MP-8	X	-.018	2.25
24	MP-8	X	-.019	6.25
25	MP-9	X	-.032	3.5
26	MP-7	X	-.018	2
27	MP-7	X	-.026	2
28	MP-7	X	-.017	4
29	MP-9	X	-.011	2
30	MP-9	X	-.019	2
31	MP-9	X	-.026	4
32	MP-12	X	-.011	.5
33	MP-1	X	-.041	6.5
34	MP-2	X	-.018	3.75
35	MP-2	X	-.019	7.75
36	MP-3	X	-.032	6.5
37	MP-4	X	-.041	6.5
38	MP-5	X	-.018	3.75
39	MP-5	X	-.019	7.75
40	MP-6	X	-.032	6.5
41	MP-7	X	-.041	6.5
42	MP-8	X	-.018	3.75
43	MP-8	X	-.019	7.75
44	MP-9	X	-.032	6.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.031	3.5
2	MP-2	X	-.014	2.25
3	MP-2	X	-.015	6.25
4	MP-3	X	-.024	3.5
5	MP-1	X	-.012	2
6	MP-1	X	-.017	2
7	MP-1	X	-.009	4
8	MP-3	X	-.007	2
9	MP-3	X	-.014	2
10	MP-3	X	-.017	4
11	MP-10	X	-.007	.5
12	MP-4	X	-.017	3.5
13	MP-5	X	-.009	2.25
14	MP-5	X	-.009	6.25
15	MP-6	X	-.012	3.5
16	MP-4	X	-.016	2
17	MP-4	X	-.023	2
18	MP-4	X	-.014	4
19	MP-6	X	-.017	2
20	MP-6	X	-.023	4
21	MP-11	X	-.007	.5
22	MP-7	X	-.031	3.5
23	MP-8	X	-.014	2.25
24	MP-8	X	-.015	6.25
25	MP-9	X	-.024	3.5
26	MP-7	X	-.012	2
27	MP-7	X	-.017	2

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
28	MP-7	X	-.009	4
29	MP-9	X	-.007	2
30	MP-9	X	-.014	2
31	MP-9	X	-.017	4
32	MP-12	X	-.01	.5
33	MP-1	X	-.031	6.5
34	MP-2	X	-.014	3.75
35	MP-2	X	-.015	7.75
36	MP-3	X	-.024	6.5
37	MP-4	X	-.017	6.5
38	MP-5	X	-.009	3.75
39	MP-5	X	-.009	7.75
40	MP-6	X	-.012	6.5
41	MP-7	X	-.031	6.5
42	MP-8	X	-.014	3.75
43	MP-8	X	-.015	7.75
44	MP-9	X	-.024	6.5
45	MP-1	Z	-.018	3.5
46	MP-2	Z	-.008	2.25
47	MP-2	Z	-.008	6.25
48	MP-3	Z	-.014	3.5
49	MP-1	Z	-.007	2
50	MP-1	Z	-.01	2
51	MP-1	Z	-.005	4
52	MP-3	Z	-.004	2
53	MP-3	Z	-.008	2
54	MP-3	Z	-.01	4
55	MP-10	Z	-.004	.5
56	MP-4	Z	-.01	3.5
57	MP-5	Z	-.005	2.25
58	MP-5	Z	-.005	6.25
59	MP-6	Z	-.007	3.5
60	MP-4	Z	-.009	2
61	MP-4	Z	-.013	2
62	MP-4	Z	-.008	4
63	MP-6	Z	-.01	2
64	MP-6	Z	-.013	4
65	MP-11	Z	-.004	.5
66	MP-7	Z	-.018	3.5
67	MP-8	Z	-.008	2.25
68	MP-8	Z	-.008	6.25
69	MP-9	Z	-.014	3.5
70	MP-7	Z	-.007	2
71	MP-7	Z	-.01	2
72	MP-7	Z	-.005	4
73	MP-9	Z	-.004	2
74	MP-9	Z	-.008	2
75	MP-9	Z	-.01	4
76	MP-12	Z	-.006	.5
77	MP-1	Z	-.018	6.5
78	MP-2	Z	-.008	3.75
79	MP-2	Z	-.008	7.75
80	MP-3	Z	-.014	6.5
81	MP-4	Z	-.01	6.5
82	MP-5	Z	-.005	3.75
83	MP-5	Z	-.005	7.75
84	MP-6	Z	-.007	6.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
85	MP-7	Z	-.018	6.5
86	MP-8	Z	-.008	3.75
87	MP-8	Z	-.008	7.75
88	MP-9	Z	-.014	6.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.021	3.5
2	MP-2	X	-.01	2.25
3	MP-2	X	-.01	6.25
4	MP-3	X	-.016	3.5
5	MP-1	X	-.011	2
6	MP-1	X	-.015	2
7	MP-1	X	-.009	4
8	MP-3	X	-.007	2
9	MP-3	X	-.012	2
10	MP-3	X	-.015	4
11	MP-10	X	-.006	.5
12	MP-4	X	-.015	3.5
13	MP-5	X	-.008	2.25
14	MP-5	X	-.008	6.25
15	MP-6	X	-.011	3.5
16	MP-4	X	-.013	2
17	MP-4	X	-.018	2
18	MP-4	X	-.011	4
19	MP-6	X	-.014	2
20	MP-6	X	-.018	4
21	MP-11	X	-.006	.5
22	MP-7	X	-.028	3.5
23	MP-8	X	-.013	2.25
24	MP-8	X	-.013	6.25
25	MP-9	X	-.022	3.5
26	MP-7	X	-.009	2
27	MP-7	X	-.013	2
28	MP-7	X	-.007	4
29	MP-9	X	-.006	2
30	MP-9	X	-.011	2
31	MP-9	X	-.013	4
32	MP-12	X	-.008	.5
33	MP-1	X	-.021	6.5
34	MP-2	X	-.01	3.75
35	MP-2	X	-.01	7.75
36	MP-3	X	-.016	6.5
37	MP-4	X	-.015	6.5
38	MP-5	X	-.008	3.75
39	MP-5	X	-.008	7.75
40	MP-6	X	-.011	6.5
41	MP-7	X	-.028	6.5
42	MP-8	X	-.013	3.75
43	MP-8	X	-.013	7.75
44	MP-9	X	-.022	6.5
45	MP-1	Z	-.021	3.5
46	MP-2	Z	-.01	2.25
47	MP-2	Z	-.01	6.25
48	MP-3	Z	-.016	3.5
49	MP-1	Z	-.011	2

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
50	MP-1	Z	-.015	2
51	MP-1	Z	-.009	4
52	MP-3	Z	-.007	2
53	MP-3	Z	-.012	2
54	MP-3	Z	-.015	4
55	MP-10	Z	-.006	.5
56	MP-4	Z	-.015	3.5
57	MP-5	Z	-.008	2.25
58	MP-5	Z	-.008	6.25
59	MP-6	Z	-.011	3.5
60	MP-4	Z	-.013	2
61	MP-4	Z	-.018	2
62	MP-4	Z	-.011	4
63	MP-6	Z	-.014	2
64	MP-6	Z	-.018	4
65	MP-11	Z	-.006	.5
66	MP-7	Z	-.028	3.5
67	MP-8	Z	-.013	2.25
68	MP-8	Z	-.013	6.25
69	MP-9	Z	-.022	3.5
70	MP-7	Z	-.009	2
71	MP-7	Z	-.013	2
72	MP-7	Z	-.007	4
73	MP-9	Z	-.006	2
74	MP-9	Z	-.011	2
75	MP-9	Z	-.013	4
76	MP-12	Z	-.008	.5
77	MP-1	Z	-.021	6.5
78	MP-2	Z	-.01	3.75
79	MP-2	Z	-.01	7.75
80	MP-3	Z	-.016	6.5
81	MP-4	Z	-.015	6.5
82	MP-5	Z	-.008	3.75
83	MP-5	Z	-.008	7.75
84	MP-6	Z	-.011	6.5
85	MP-7	Z	-.028	6.5
86	MP-8	Z	-.013	3.75
87	MP-8	Z	-.013	7.75
88	MP-9	Z	-.022	6.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.012	3.5
2	MP-2	X	-.006	2.25
3	MP-2	X	-.006	6.25
4	MP-3	X	-.009	3.5
5	MP-1	X	-.008	2
6	MP-1	X	-.012	2
7	MP-1	X	-.007	4
8	MP-3	X	-.005	2
9	MP-3	X	-.009	2
10	MP-3	X	-.012	4
11	MP-10	X	-.004	.5
12	MP-4	X	-.012	3.5
13	MP-5	X	-.006	2.25
14	MP-5	X	-.006	6.25

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
15	MP-6	X	-.009	3.5
16	MP-4	X	-.008	2
17	MP-4	X	-.012	2
18	MP-4	X	-.007	4
19	MP-6	X	-.009	2
20	MP-6	X	-.012	4
21	MP-11	X	-.004	.5
22	MP-7	X	-.02	3.5
23	MP-8	X	-.009	2.25
24	MP-8	X	-.01	6.25
25	MP-9	X	-.016	3.5
26	MP-7	X	-.006	2
27	MP-7	X	-.009	2
28	MP-7	X	-.004	4
29	MP-9	X	-.004	2
30	MP-9	X	-.007	2
31	MP-9	X	-.009	4
32	MP-12	X	-.006	.5
33	MP-1	X	-.012	6.5
34	MP-2	X	-.006	3.75
35	MP-2	X	-.006	7.75
36	MP-3	X	-.009	6.5
37	MP-4	X	-.012	6.5
38	MP-5	X	-.006	3.75
39	MP-5	X	-.006	7.75
40	MP-6	X	-.009	6.5
41	MP-7	X	-.02	6.5
42	MP-8	X	-.009	3.75
43	MP-8	X	-.01	7.75
44	MP-9	X	-.016	6.5
45	MP-1	Z	-.022	3.5
46	MP-2	Z	-.011	2.25
47	MP-2	Z	-.011	6.25
48	MP-3	Z	-.016	3.5
49	MP-1	Z	-.014	2
50	MP-1	Z	-.021	2
51	MP-1	Z	-.013	4
52	MP-3	Z	-.009	2
53	MP-3	Z	-.016	2
54	MP-3	Z	-.021	4
55	MP-10	Z	-.007	.5
56	MP-4	Z	-.022	3.5
57	MP-5	Z	-.011	2.25
58	MP-5	Z	-.011	6.25
59	MP-6	Z	-.016	3.5
60	MP-4	Z	-.014	2
61	MP-4	Z	-.021	2
62	MP-4	Z	-.013	4
63	MP-6	Z	-.016	2
64	MP-6	Z	-.021	4
65	MP-11	Z	-.007	.5
66	MP-7	Z	-.035	3.5
67	MP-8	Z	-.016	2.25
68	MP-8	Z	-.017	6.25
69	MP-9	Z	-.028	3.5
70	MP-7	Z	-.01	2
71	MP-7	Z	-.015	2

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
72	MP-7	Z	-.008	4
73	MP-9	Z	-.007	2
74	MP-9	Z	-.013	2
75	MP-9	Z	-.015	4
76	MP-12	Z	-.01	.5
77	MP-1	Z	-.022	6.5
78	MP-2	Z	-.011	3.75
79	MP-2	Z	-.011	7.75
80	MP-3	Z	-.016	6.5
81	MP-4	Z	-.022	6.5
82	MP-5	Z	-.011	3.75
83	MP-5	Z	-.011	7.75
84	MP-6	Z	-.016	6.5
85	MP-7	Z	-.035	6.5
86	MP-8	Z	-.016	3.75
87	MP-8	Z	-.017	7.75
88	MP-9	Z	-.028	6.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	Z	-.02	3.5
2	MP-2	Z	-.011	2.25
3	MP-2	Z	-.01	6.25
4	MP-3	Z	-.014	3.5
5	MP-1	Z	-.012	2
6	MP-1	Z	-.017	2
7	MP-1	Z	-.009	4
8	MP-3	Z	-.008	2
9	MP-3	Z	-.015	2
10	MP-3	Z	-.017	4
11	MP-10	Z	-.008	.5
12	MP-4	Z	-.02	3.5
13	MP-5	Z	-.011	2.25
14	MP-5	Z	-.01	6.25
15	MP-6	Z	-.014	3.5
16	MP-4	Z	-.012	2
17	MP-4	Z	-.017	2
18	MP-4	Z	-.009	4
19	MP-6	Z	-.015	2
20	MP-6	Z	-.017	4
21	MP-11	Z	-.008	.5
22	MP-7	Z	-.02	3.5
23	MP-8	Z	-.011	2.25
24	MP-8	Z	-.01	6.25
25	MP-9	Z	-.014	3.5
26	MP-7	Z	-.012	2
27	MP-7	Z	-.017	2
28	MP-7	Z	-.009	4
29	MP-9	Z	-.008	2
30	MP-9	Z	-.015	2
31	MP-9	Z	-.017	4
32	MP-12	Z	-.011	.5
33	MP-1	Z	-.02	6.5
34	MP-2	Z	-.011	3.75
35	MP-2	Z	-.01	7.75
36	MP-3	Z	-.014	6.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
37	MP-4	Z	-.02	6.5
38	MP-5	Z	-.011	3.75
39	MP-5	Z	-.01	7.75
40	MP-6	Z	-.014	6.5
41	MP-7	Z	-.02	6.5
42	MP-8	Z	-.011	3.75
43	MP-8	Z	-.01	7.75
44	MP-9	Z	-.014	6.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.012	3.5
2	MP-2	X	.006	2.25
3	MP-2	X	.006	6.25
4	MP-3	X	.009	3.5
5	MP-1	X	.008	2
6	MP-1	X	.012	2
7	MP-1	X	.007	4
8	MP-3	X	.005	2
9	MP-3	X	.009	2
10	MP-3	X	.012	4
11	MP-10	X	.004	.5
12	MP-4	X	.02	3.5
13	MP-5	X	.009	2.25
14	MP-5	X	.01	6.25
15	MP-6	X	.016	3.5
16	MP-4	X	.006	2
17	MP-4	X	.009	2
18	MP-4	X	.004	4
19	MP-6	X	.007	2
20	MP-6	X	.009	4
21	MP-11	X	.004	.5
22	MP-7	X	.012	3.5
23	MP-8	X	.006	2.25
24	MP-8	X	.006	6.25
25	MP-9	X	.009	3.5
26	MP-7	X	.008	2
27	MP-7	X	.012	2
28	MP-7	X	.007	4
29	MP-9	X	.005	2
30	MP-9	X	.009	2
31	MP-9	X	.012	4
32	MP-12	X	.006	.5
33	MP-1	X	.012	6.5
34	MP-2	X	.006	3.75
35	MP-2	X	.006	7.75
36	MP-3	X	.009	6.5
37	MP-4	X	.02	6.5
38	MP-5	X	.009	3.75
39	MP-5	X	.01	7.75
40	MP-6	X	.016	6.5
41	MP-7	X	.012	6.5
42	MP-8	X	.006	3.75
43	MP-8	X	.006	7.75
44	MP-9	X	.009	6.5
45	MP-1	Z	-.022	3.5

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
46	MP-2	Z	-.011	2.25
47	MP-2	Z	-.011	6.25
48	MP-3	Z	-.016	3.5
49	MP-1	Z	-.014	2
50	MP-1	Z	-.021	2
51	MP-1	Z	-.013	4
52	MP-3	Z	-.009	2
53	MP-3	Z	-.016	2
54	MP-3	Z	-.021	4
55	MP-10	Z	-.007	.5
56	MP-4	Z	-.035	3.5
57	MP-5	Z	-.016	2.25
58	MP-5	Z	-.017	6.25
59	MP-6	Z	-.028	3.5
60	MP-4	Z	-.01	2
61	MP-4	Z	-.015	2
62	MP-4	Z	-.008	4
63	MP-6	Z	-.013	2
64	MP-6	Z	-.015	4
65	MP-11	Z	-.007	.5
66	MP-7	Z	-.022	3.5
67	MP-8	Z	-.011	2.25
68	MP-8	Z	-.011	6.25
69	MP-9	Z	-.016	3.5
70	MP-7	Z	-.014	2
71	MP-7	Z	-.021	2
72	MP-7	Z	-.013	4
73	MP-9	Z	-.009	2
74	MP-9	Z	-.016	2
75	MP-9	Z	-.021	4
76	MP-12	Z	-.01	.5
77	MP-1	Z	-.022	6.5
78	MP-2	Z	-.011	3.75
79	MP-2	Z	-.011	7.75
80	MP-3	Z	-.016	6.5
81	MP-4	Z	-.035	6.5
82	MP-5	Z	-.016	3.75
83	MP-5	Z	-.017	7.75
84	MP-6	Z	-.028	6.5
85	MP-7	Z	-.022	6.5
86	MP-8	Z	-.011	3.75
87	MP-8	Z	-.011	7.75
88	MP-9	Z	-.016	6.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.021	3.5
2	MP-2	X	.01	2.25
3	MP-2	X	.01	6.25
4	MP-3	X	.016	3.5
5	MP-1	X	.011	2
6	MP-1	X	.015	2
7	MP-1	X	.009	4
8	MP-3	X	.007	2
9	MP-3	X	.012	2
10	MP-3	X	.015	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
11	MP-10	X	.006	.5
12	MP-4	X	.028	3.5
13	MP-5	X	.013	2.25
14	MP-5	X	.013	6.25
15	MP-6	X	.022	3.5
16	MP-4	X	.009	2
17	MP-4	X	.013	2
18	MP-4	X	.007	4
19	MP-6	X	.011	2
20	MP-6	X	.013	4
21	MP-11	X	.006	.5
22	MP-7	X	.015	3.5
23	MP-8	X	.008	2.25
24	MP-8	X	.008	6.25
25	MP-9	X	.011	3.5
26	MP-7	X	.013	2
27	MP-7	X	.018	2
28	MP-7	X	.011	4
29	MP-9	X	.008	2
30	MP-9	X	.014	2
31	MP-9	X	.018	4
32	MP-12	X	.008	.5
33	MP-1	X	.021	6.5
34	MP-2	X	.01	3.75
35	MP-2	X	.01	7.75
36	MP-3	X	.016	6.5
37	MP-4	X	.028	6.5
38	MP-5	X	.013	3.75
39	MP-5	X	.013	7.75
40	MP-6	X	.022	6.5
41	MP-7	X	.015	6.5
42	MP-8	X	.008	3.75
43	MP-8	X	.008	7.75
44	MP-9	X	.011	6.5
45	MP-1	Z	-.021	3.5
46	MP-2	Z	-.01	2.25
47	MP-2	Z	-.01	6.25
48	MP-3	Z	-.016	3.5
49	MP-1	Z	-.011	2
50	MP-1	Z	-.015	2
51	MP-1	Z	-.009	4
52	MP-3	Z	-.007	2
53	MP-3	Z	-.012	2
54	MP-3	Z	-.015	4
55	MP-10	Z	-.006	.5
56	MP-4	Z	-.028	3.5
57	MP-5	Z	-.013	2.25
58	MP-5	Z	-.013	6.25
59	MP-6	Z	-.022	3.5
60	MP-4	Z	-.009	2
61	MP-4	Z	-.013	2
62	MP-4	Z	-.007	4
63	MP-6	Z	-.011	2
64	MP-6	Z	-.013	4
65	MP-11	Z	-.006	.5
66	MP-7	Z	-.015	3.5
67	MP-8	Z	-.008	2.25

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
68	MP-8	Z	-.008	6.25
69	MP-9	Z	-.011	3.5
70	MP-7	Z	-.013	2
71	MP-7	Z	-.018	2
72	MP-7	Z	-.011	4
73	MP-9	Z	-.008	2
74	MP-9	Z	-.014	2
75	MP-9	Z	-.018	4
76	MP-12	Z	-.008	.5
77	MP-1	Z	-.021	6.5
78	MP-2	Z	-.01	3.75
79	MP-2	Z	-.01	7.75
80	MP-3	Z	-.016	6.5
81	MP-4	Z	-.028	6.5
82	MP-5	Z	-.013	3.75
83	MP-5	Z	-.013	7.75
84	MP-6	Z	-.022	6.5
85	MP-7	Z	-.015	6.5
86	MP-8	Z	-.008	3.75
87	MP-8	Z	-.008	7.75
88	MP-9	Z	-.011	6.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.031	3.5
2	MP-2	X	.014	2.25
3	MP-2	X	.015	6.25
4	MP-3	X	.024	3.5
5	MP-1	X	.012	2
6	MP-1	X	.017	2
7	MP-1	X	.009	4
8	MP-3	X	.007	2
9	MP-3	X	.014	2
10	MP-3	X	.017	4
11	MP-10	X	.007	.5
12	MP-4	X	.031	3.5
13	MP-5	X	.014	2.25
14	MP-5	X	.015	6.25
15	MP-6	X	.024	3.5
16	MP-4	X	.012	2
17	MP-4	X	.017	2
18	MP-4	X	.009	4
19	MP-6	X	.014	2
20	MP-6	X	.017	4
21	MP-11	X	.007	.5
22	MP-7	X	.017	3.5
23	MP-8	X	.009	2.25
24	MP-8	X	.009	6.25
25	MP-9	X	.012	3.5
26	MP-7	X	.016	2
27	MP-7	X	.023	2
28	MP-7	X	.014	4
29	MP-9	X	.009	2
30	MP-9	X	.017	2
31	MP-9	X	.023	4
32	MP-12	X	.01	.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
33	MP-1	X	.031	6.5
34	MP-2	X	.014	3.75
35	MP-2	X	.015	7.75
36	MP-3	X	.024	6.5
37	MP-4	X	.031	6.5
38	MP-5	X	.014	3.75
39	MP-5	X	.015	7.75
40	MP-6	X	.024	6.5
41	MP-7	X	.017	6.5
42	MP-8	X	.009	3.75
43	MP-8	X	.009	7.75
44	MP-9	X	.012	6.5
45	MP-1	Z	-.018	3.5
46	MP-2	Z	-.008	2.25
47	MP-2	Z	-.008	6.25
48	MP-3	Z	-.014	3.5
49	MP-1	Z	-.007	2
50	MP-1	Z	-.01	2
51	MP-1	Z	-.005	4
52	MP-3	Z	-.004	2
53	MP-3	Z	-.008	2
54	MP-3	Z	-.01	4
55	MP-10	Z	-.004	.5
56	MP-4	Z	-.018	3.5
57	MP-5	Z	-.008	2.25
58	MP-5	Z	-.008	6.25
59	MP-6	Z	-.014	3.5
60	MP-4	Z	-.007	2
61	MP-4	Z	-.01	2
62	MP-4	Z	-.005	4
63	MP-6	Z	-.008	2
64	MP-6	Z	-.01	4
65	MP-11	Z	-.004	.5
66	MP-7	Z	-.01	3.5
67	MP-8	Z	-.005	2.25
68	MP-8	Z	-.005	6.25
69	MP-9	Z	-.007	3.5
70	MP-7	Z	-.009	2
71	MP-7	Z	-.013	2
72	MP-7	Z	-.008	4
73	MP-9	Z	-.005	2
74	MP-9	Z	-.01	2
75	MP-9	Z	-.013	4
76	MP-12	Z	-.006	.5
77	MP-1	Z	-.018	6.5
78	MP-2	Z	-.008	3.75
79	MP-2	Z	-.008	7.75
80	MP-3	Z	-.014	6.5
81	MP-4	Z	-.018	6.5
82	MP-5	Z	-.008	3.75
83	MP-5	Z	-.008	7.75
84	MP-6	Z	-.014	6.5
85	MP-7	Z	-.01	6.5
86	MP-8	Z	-.005	3.75
87	MP-8	Z	-.005	7.75
88	MP-9	Z	-.007	6.5

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.041	3.5
2	MP-2	X	.018	2.25
3	MP-2	X	.019	6.25
4	MP-3	X	.032	3.5
5	MP-1	X	.018	2
6	MP-1	X	.026	2
7	MP-1	X	.017	4
8	MP-3	X	.011	2
9	MP-3	X	.019	2
10	MP-3	X	.026	4
11	MP-10	X	.008	.5
12	MP-4	X	.041	3.5
13	MP-5	X	.018	2.25
14	MP-5	X	.019	6.25
15	MP-6	X	.032	3.5
16	MP-4	X	.018	2
17	MP-4	X	.026	2
18	MP-4	X	.017	4
19	MP-6	X	.019	2
20	MP-6	X	.026	4
21	MP-11	X	.008	.5
22	MP-7	X	.041	3.5
23	MP-8	X	.018	2.25
24	MP-8	X	.019	6.25
25	MP-9	X	.032	3.5
26	MP-7	X	.018	2
27	MP-7	X	.026	2
28	MP-7	X	.017	4
29	MP-9	X	.011	2
30	MP-9	X	.019	2
31	MP-9	X	.026	4
32	MP-12	X	.011	.5
33	MP-1	X	.041	6.5
34	MP-2	X	.018	3.75
35	MP-2	X	.019	7.75
36	MP-3	X	.032	6.5
37	MP-4	X	.041	6.5
38	MP-5	X	.018	3.75
39	MP-5	X	.019	7.75
40	MP-6	X	.032	6.5
41	MP-7	X	.041	6.5
42	MP-8	X	.018	3.75
43	MP-8	X	.019	7.75
44	MP-9	X	.032	6.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.031	3.5
2	MP-2	X	.014	2.25
3	MP-2	X	.015	6.25
4	MP-3	X	.024	3.5
5	MP-1	X	.012	2
6	MP-1	X	.017	2
7	MP-1	X	.009	4
8	MP-3	X	.007	2
9	MP-3	X	.014	2

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
10	MP-3	X	.017	4
11	MP-10	X	.007	.5
12	MP-4	X	.017	3.5
13	MP-5	X	.009	2.25
14	MP-5	X	.009	6.25
15	MP-6	X	.012	3.5
16	MP-4	X	.016	2
17	MP-4	X	.023	2
18	MP-4	X	.014	4
19	MP-6	X	.017	2
20	MP-6	X	.023	4
21	MP-11	X	.007	.5
22	MP-7	X	.031	3.5
23	MP-8	X	.014	2.25
24	MP-8	X	.015	6.25
25	MP-9	X	.024	3.5
26	MP-7	X	.012	2
27	MP-7	X	.017	2
28	MP-7	X	.009	4
29	MP-9	X	.007	2
30	MP-9	X	.014	2
31	MP-9	X	.017	4
32	MP-12	X	.01	.5
33	MP-1	X	.031	6.5
34	MP-2	X	.014	3.75
35	MP-2	X	.015	7.75
36	MP-3	X	.024	6.5
37	MP-4	X	.017	6.5
38	MP-5	X	.009	3.75
39	MP-5	X	.009	7.75
40	MP-6	X	.012	6.5
41	MP-7	X	.031	6.5
42	MP-8	X	.014	3.75
43	MP-8	X	.015	7.75
44	MP-9	X	.024	6.5
45	MP-1	Z	.018	3.5
46	MP-2	Z	.008	2.25
47	MP-2	Z	.008	6.25
48	MP-3	Z	.014	3.5
49	MP-1	Z	.007	2
50	MP-1	Z	.01	2
51	MP-1	Z	.005	4
52	MP-3	Z	.004	2
53	MP-3	Z	.008	2
54	MP-3	Z	.01	4
55	MP-10	Z	.004	.5
56	MP-4	Z	.01	3.5
57	MP-5	Z	.005	2.25
58	MP-5	Z	.005	6.25
59	MP-6	Z	.007	3.5
60	MP-4	Z	.009	2
61	MP-4	Z	.013	2
62	MP-4	Z	.008	4
63	MP-6	Z	.01	2
64	MP-6	Z	.013	4
65	MP-11	Z	.004	.5
66	MP-7	Z	.018	3.5

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
67	MP-8	Z	.008	2.25
68	MP-8	Z	.008	6.25
69	MP-9	Z	.014	3.5
70	MP-7	Z	.007	2
71	MP-7	Z	.01	2
72	MP-7	Z	.005	4
73	MP-9	Z	.004	2
74	MP-9	Z	.008	2
75	MP-9	Z	.01	4
76	MP-12	Z	.006	.5
77	MP-1	Z	.018	6.5
78	MP-2	Z	.008	3.75
79	MP-2	Z	.008	7.75
80	MP-3	Z	.014	6.5
81	MP-4	Z	.01	6.5
82	MP-5	Z	.005	3.75
83	MP-5	Z	.005	7.75
84	MP-6	Z	.007	6.5
85	MP-7	Z	.018	6.5
86	MP-8	Z	.008	3.75
87	MP-8	Z	.008	7.75
88	MP-9	Z	.014	6.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.021	3.5
2	MP-2	X	.01	2.25
3	MP-2	X	.01	6.25
4	MP-3	X	.016	3.5
5	MP-1	X	.011	2
6	MP-1	X	.015	2
7	MP-1	X	.009	4
8	MP-3	X	.007	2
9	MP-3	X	.012	2
10	MP-3	X	.015	4
11	MP-10	X	.006	.5
12	MP-4	X	.015	3.5
13	MP-5	X	.008	2.25
14	MP-5	X	.008	6.25
15	MP-6	X	.011	3.5
16	MP-4	X	.013	2
17	MP-4	X	.018	2
18	MP-4	X	.011	4
19	MP-6	X	.014	2
20	MP-6	X	.018	4
21	MP-11	X	.006	.5
22	MP-7	X	.028	3.5
23	MP-8	X	.013	2.25
24	MP-8	X	.013	6.25
25	MP-9	X	.022	3.5
26	MP-7	X	.009	2
27	MP-7	X	.013	2
28	MP-7	X	.007	4
29	MP-9	X	.006	2
30	MP-9	X	.011	2
31	MP-9	X	.013	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
32	MP-12	X	.008	.5
33	MP-1	X	.021	6.5
34	MP-2	X	.01	3.75
35	MP-2	X	.01	7.75
36	MP-3	X	.016	6.5
37	MP-4	X	.015	6.5
38	MP-5	X	.008	3.75
39	MP-5	X	.008	7.75
40	MP-6	X	.011	6.5
41	MP-7	X	.028	6.5
42	MP-8	X	.013	3.75
43	MP-8	X	.013	7.75
44	MP-9	X	.022	6.5
45	MP-1	Z	.021	3.5
46	MP-2	Z	.01	2.25
47	MP-2	Z	.01	6.25
48	MP-3	Z	.016	3.5
49	MP-1	Z	.011	2
50	MP-1	Z	.015	2
51	MP-1	Z	.009	4
52	MP-3	Z	.007	2
53	MP-3	Z	.012	2
54	MP-3	Z	.015	4
55	MP-10	Z	.006	.5
56	MP-4	Z	.015	3.5
57	MP-5	Z	.008	2.25
58	MP-5	Z	.008	6.25
59	MP-6	Z	.011	3.5
60	MP-4	Z	.013	2
61	MP-4	Z	.018	2
62	MP-4	Z	.011	4
63	MP-6	Z	.014	2
64	MP-6	Z	.018	4
65	MP-11	Z	.006	.5
66	MP-7	Z	.028	3.5
67	MP-8	Z	.013	2.25
68	MP-8	Z	.013	6.25
69	MP-9	Z	.022	3.5
70	MP-7	Z	.009	2
71	MP-7	Z	.013	2
72	MP-7	Z	.007	4
73	MP-9	Z	.006	2
74	MP-9	Z	.011	2
75	MP-9	Z	.013	4
76	MP-12	Z	.008	.5
77	MP-1	Z	.021	6.5
78	MP-2	Z	.01	3.75
79	MP-2	Z	.01	7.75
80	MP-3	Z	.016	6.5
81	MP-4	Z	.015	6.5
82	MP-5	Z	.008	3.75
83	MP-5	Z	.008	7.75
84	MP-6	Z	.011	6.5
85	MP-7	Z	.028	6.5
86	MP-8	Z	.013	3.75
87	MP-8	Z	.013	7.75
88	MP-9	Z	.022	6.5

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.012	3.5
2	MP-2	X	.006	2.25
3	MP-2	X	.006	6.25
4	MP-3	X	.009	3.5
5	MP-1	X	.008	2
6	MP-1	X	.012	2
7	MP-1	X	.007	4
8	MP-3	X	.005	2
9	MP-3	X	.009	2
10	MP-3	X	.012	4
11	MP-10	X	.004	.5
12	MP-4	X	.012	3.5
13	MP-5	X	.006	2.25
14	MP-5	X	.006	6.25
15	MP-6	X	.009	3.5
16	MP-4	X	.008	2
17	MP-4	X	.012	2
18	MP-4	X	.007	4
19	MP-6	X	.009	2
20	MP-6	X	.012	4
21	MP-11	X	.004	.5
22	MP-7	X	.02	3.5
23	MP-8	X	.009	2.25
24	MP-8	X	.01	6.25
25	MP-9	X	.016	3.5
26	MP-7	X	.006	2
27	MP-7	X	.009	2
28	MP-7	X	.004	4
29	MP-9	X	.004	2
30	MP-9	X	.007	2
31	MP-9	X	.009	4
32	MP-12	X	.006	.5
33	MP-1	X	.012	6.5
34	MP-2	X	.006	3.75
35	MP-2	X	.006	7.75
36	MP-3	X	.009	6.5
37	MP-4	X	.012	6.5
38	MP-5	X	.006	3.75
39	MP-5	X	.006	7.75
40	MP-6	X	.009	6.5
41	MP-7	X	.02	6.5
42	MP-8	X	.009	3.75
43	MP-8	X	.01	7.75
44	MP-9	X	.016	6.5
45	MP-1	Z	.022	3.5
46	MP-2	Z	.011	2.25
47	MP-2	Z	.011	6.25
48	MP-3	Z	.016	3.5
49	MP-1	Z	.014	2
50	MP-1	Z	.021	2
51	MP-1	Z	.013	4
52	MP-3	Z	.009	2
53	MP-3	Z	.016	2
54	MP-3	Z	.021	4
55	MP-10	Z	.007	.5
56	MP-4	Z	.022	3.5
57	MP-5	Z	.011	2.25

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
58	MP-5	Z	.011	6.25
59	MP-6	Z	.016	3.5
60	MP-4	Z	.014	2
61	MP-4	Z	.021	2
62	MP-4	Z	.013	4
63	MP-6	Z	.016	2
64	MP-6	Z	.021	4
65	MP-11	Z	.007	.5
66	MP-7	Z	.035	3.5
67	MP-8	Z	.016	2.25
68	MP-8	Z	.017	6.25
69	MP-9	Z	.028	3.5
70	MP-7	Z	.01	2
71	MP-7	Z	.015	2
72	MP-7	Z	.008	4
73	MP-9	Z	.007	2
74	MP-9	Z	.013	2
75	MP-9	Z	.015	4
76	MP-12	Z	.01	.5
77	MP-1	Z	.022	6.5
78	MP-2	Z	.011	3.75
79	MP-2	Z	.011	7.75
80	MP-3	Z	.016	6.5
81	MP-4	Z	.022	6.5
82	MP-5	Z	.011	3.75
83	MP-5	Z	.011	7.75
84	MP-6	Z	.016	6.5
85	MP-7	Z	.035	6.5
86	MP-8	Z	.016	3.75
87	MP-8	Z	.017	7.75
88	MP-9	Z	.028	6.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	Z	.02	3.5
2	MP-2	Z	.011	2.25
3	MP-2	Z	.01	6.25
4	MP-3	Z	.014	3.5
5	MP-1	Z	.012	2
6	MP-1	Z	.017	2
7	MP-1	Z	.009	4
8	MP-3	Z	.008	2
9	MP-3	Z	.015	2
10	MP-3	Z	.017	4
11	MP-10	Z	.008	.5
12	MP-4	Z	.02	3.5
13	MP-5	Z	.011	2.25
14	MP-5	Z	.01	6.25
15	MP-6	Z	.014	3.5
16	MP-4	Z	.012	2
17	MP-4	Z	.017	2
18	MP-4	Z	.009	4
19	MP-6	Z	.015	2
20	MP-6	Z	.017	4
21	MP-11	Z	.008	.5
22	MP-7	Z	.02	3.5

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
23	MP-8	Z	.011	2.25
24	MP-8	Z	.01	6.25
25	MP-9	Z	.014	3.5
26	MP-7	Z	.012	2
27	MP-7	Z	.017	2
28	MP-7	Z	.009	4
29	MP-9	Z	.008	2
30	MP-9	Z	.015	2
31	MP-9	Z	.017	4
32	MP-12	Z	.011	.5
33	MP-1	Z	.02	6.5
34	MP-2	Z	.011	3.75
35	MP-2	Z	.01	7.75
36	MP-3	Z	.014	6.5
37	MP-4	Z	.02	6.5
38	MP-5	Z	.011	3.75
39	MP-5	Z	.01	7.75
40	MP-6	Z	.014	6.5
41	MP-7	Z	.02	6.5
42	MP-8	Z	.011	3.75
43	MP-8	Z	.01	7.75
44	MP-9	Z	.014	6.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.012	3.5
2	MP-2	X	-.006	2.25
3	MP-2	X	-.006	6.25
4	MP-3	X	-.009	3.5
5	MP-1	X	-.008	2
6	MP-1	X	-.012	2
7	MP-1	X	-.007	4
8	MP-3	X	-.005	2
9	MP-3	X	-.009	2
10	MP-3	X	-.012	4
11	MP-10	X	-.004	.5
12	MP-4	X	-.02	3.5
13	MP-5	X	-.009	2.25
14	MP-5	X	-.01	6.25
15	MP-6	X	-.016	3.5
16	MP-4	X	-.006	2
17	MP-4	X	-.009	2
18	MP-4	X	-.004	4
19	MP-6	X	-.007	2
20	MP-6	X	-.009	4
21	MP-11	X	-.004	.5
22	MP-7	X	-.012	3.5
23	MP-8	X	-.006	2.25
24	MP-8	X	-.006	6.25
25	MP-9	X	-.009	3.5
26	MP-7	X	-.008	2
27	MP-7	X	-.012	2
28	MP-7	X	-.007	4
29	MP-9	X	-.005	2
30	MP-9	X	-.009	2
31	MP-9	X	-.012	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
32	MP-12	X	-.006	.5
33	MP-1	X	-.012	6.5
34	MP-2	X	-.006	3.75
35	MP-2	X	-.006	7.75
36	MP-3	X	-.009	6.5
37	MP-4	X	-.02	6.5
38	MP-5	X	-.009	3.75
39	MP-5	X	-.01	7.75
40	MP-6	X	-.016	6.5
41	MP-7	X	-.012	6.5
42	MP-8	X	-.006	3.75
43	MP-8	X	-.006	7.75
44	MP-9	X	-.009	6.5
45	MP-1	Z	.022	3.5
46	MP-2	Z	.011	2.25
47	MP-2	Z	.011	6.25
48	MP-3	Z	.016	3.5
49	MP-1	Z	.014	2
50	MP-1	Z	.021	2
51	MP-1	Z	.013	4
52	MP-3	Z	.009	2
53	MP-3	Z	.016	2
54	MP-3	Z	.021	4
55	MP-10	Z	.007	.5
56	MP-4	Z	.035	3.5
57	MP-5	Z	.016	2.25
58	MP-5	Z	.017	6.25
59	MP-6	Z	.028	3.5
60	MP-4	Z	.01	2
61	MP-4	Z	.015	2
62	MP-4	Z	.008	4
63	MP-6	Z	.013	2
64	MP-6	Z	.015	4
65	MP-11	Z	.007	.5
66	MP-7	Z	.022	3.5
67	MP-8	Z	.011	2.25
68	MP-8	Z	.011	6.25
69	MP-9	Z	.016	3.5
70	MP-7	Z	.014	2
71	MP-7	Z	.021	2
72	MP-7	Z	.013	4
73	MP-9	Z	.009	2
74	MP-9	Z	.016	2
75	MP-9	Z	.021	4
76	MP-12	Z	.01	.5
77	MP-1	Z	.022	6.5
78	MP-2	Z	.011	3.75
79	MP-2	Z	.011	7.75
80	MP-3	Z	.016	6.5
81	MP-4	Z	.035	6.5
82	MP-5	Z	.016	3.75
83	MP-5	Z	.017	7.75
84	MP-6	Z	.028	6.5
85	MP-7	Z	.022	6.5
86	MP-8	Z	.011	3.75
87	MP-8	Z	.011	7.75
88	MP-9	Z	.016	6.5

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.021	3.5
2	MP-2	X	-.01	2.25
3	MP-2	X	-.01	6.25
4	MP-3	X	-.016	3.5
5	MP-1	X	-.011	2
6	MP-1	X	-.015	2
7	MP-1	X	-.009	4
8	MP-3	X	-.007	2
9	MP-3	X	-.012	2
10	MP-3	X	-.015	4
11	MP-10	X	-.006	.5
12	MP-4	X	-.028	3.5
13	MP-5	X	-.013	2.25
14	MP-5	X	-.013	6.25
15	MP-6	X	-.022	3.5
16	MP-4	X	-.009	2
17	MP-4	X	-.013	2
18	MP-4	X	-.007	4
19	MP-6	X	-.011	2
20	MP-6	X	-.013	4
21	MP-11	X	-.006	.5
22	MP-7	X	-.015	3.5
23	MP-8	X	-.008	2.25
24	MP-8	X	-.008	6.25
25	MP-9	X	-.011	3.5
26	MP-7	X	-.013	2
27	MP-7	X	-.018	2
28	MP-7	X	-.011	4
29	MP-9	X	-.008	2
30	MP-9	X	-.014	2
31	MP-9	X	-.018	4
32	MP-12	X	-.008	.5
33	MP-1	X	-.021	6.5
34	MP-2	X	-.01	3.75
35	MP-2	X	-.01	7.75
36	MP-3	X	-.016	6.5
37	MP-4	X	-.028	6.5
38	MP-5	X	-.013	3.75
39	MP-5	X	-.013	7.75
40	MP-6	X	-.022	6.5
41	MP-7	X	-.015	6.5
42	MP-8	X	-.008	3.75
43	MP-8	X	-.008	7.75
44	MP-9	X	-.011	6.5
45	MP-1	Z	.021	3.5
46	MP-2	Z	.01	2.25
47	MP-2	Z	.01	6.25
48	MP-3	Z	.016	3.5
49	MP-1	Z	.011	2
50	MP-1	Z	.015	2
51	MP-1	Z	.009	4
52	MP-3	Z	.007	2
53	MP-3	Z	.012	2
54	MP-3	Z	.015	4
55	MP-10	Z	.006	.5
56	MP-4	Z	.028	3.5
57	MP-5	Z	.013	2.25

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
58	MP-5	Z	.013	6.25
59	MP-6	Z	.022	3.5
60	MP-4	Z	.009	2
61	MP-4	Z	.013	2
62	MP-4	Z	.007	4
63	MP-6	Z	.011	2
64	MP-6	Z	.013	4
65	MP-11	Z	.006	.5
66	MP-7	Z	.015	3.5
67	MP-8	Z	.008	2.25
68	MP-8	Z	.008	6.25
69	MP-9	Z	.011	3.5
70	MP-7	Z	.013	2
71	MP-7	Z	.018	2
72	MP-7	Z	.011	4
73	MP-9	Z	.008	2
74	MP-9	Z	.014	2
75	MP-9	Z	.018	4
76	MP-12	Z	.008	.5
77	MP-1	Z	.021	6.5
78	MP-2	Z	.01	3.75
79	MP-2	Z	.01	7.75
80	MP-3	Z	.016	6.5
81	MP-4	Z	.028	6.5
82	MP-5	Z	.013	3.75
83	MP-5	Z	.013	7.75
84	MP-6	Z	.022	6.5
85	MP-7	Z	.015	6.5
86	MP-8	Z	.008	3.75
87	MP-8	Z	.008	7.75
88	MP-9	Z	.011	6.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.031	3.5
2	MP-2	X	-.014	2.25
3	MP-2	X	-.015	6.25
4	MP-3	X	-.024	3.5
5	MP-1	X	-.012	2
6	MP-1	X	-.017	2
7	MP-1	X	-.009	4
8	MP-3	X	-.007	2
9	MP-3	X	-.014	2
10	MP-3	X	-.017	4
11	MP-10	X	-.007	.5
12	MP-4	X	-.031	3.5
13	MP-5	X	-.014	2.25
14	MP-5	X	-.015	6.25
15	MP-6	X	-.024	3.5
16	MP-4	X	-.012	2
17	MP-4	X	-.017	2
18	MP-4	X	-.009	4
19	MP-6	X	-.014	2
20	MP-6	X	-.017	4
21	MP-11	X	-.007	.5
22	MP-7	X	-.017	3.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
23	MP-8	X	-.009	2.25
24	MP-8	X	-.009	6.25
25	MP-9	X	-.012	3.5
26	MP-7	X	-.016	2
27	MP-7	X	-.023	2
28	MP-7	X	-.014	4
29	MP-9	X	-.009	2
30	MP-9	X	-.017	2
31	MP-9	X	-.023	4
32	MP-12	X	-.01	.5
33	MP-1	X	-.031	6.5
34	MP-2	X	-.014	3.75
35	MP-2	X	-.015	7.75
36	MP-3	X	-.024	6.5
37	MP-4	X	-.031	6.5
38	MP-5	X	-.014	3.75
39	MP-5	X	-.015	7.75
40	MP-6	X	-.024	6.5
41	MP-7	X	-.017	6.5
42	MP-8	X	-.009	3.75
43	MP-8	X	-.009	7.75
44	MP-9	X	-.012	6.5
45	MP-1	Z	.018	3.5
46	MP-2	Z	.008	2.25
47	MP-2	Z	.008	6.25
48	MP-3	Z	.014	3.5
49	MP-1	Z	.007	2
50	MP-1	Z	.01	2
51	MP-1	Z	.005	4
52	MP-3	Z	.004	2
53	MP-3	Z	.008	2
54	MP-3	Z	.01	4
55	MP-10	Z	.004	.5
56	MP-4	Z	.018	3.5
57	MP-5	Z	.008	2.25
58	MP-5	Z	.008	6.25
59	MP-6	Z	.014	3.5
60	MP-4	Z	.007	2
61	MP-4	Z	.01	2
62	MP-4	Z	.005	4
63	MP-6	Z	.008	2
64	MP-6	Z	.01	4
65	MP-11	Z	.004	.5
66	MP-7	Z	.01	3.5
67	MP-8	Z	.005	2.25
68	MP-8	Z	.005	6.25
69	MP-9	Z	.007	3.5
70	MP-7	Z	.009	2
71	MP-7	Z	.013	2
72	MP-7	Z	.008	4
73	MP-9	Z	.005	2
74	MP-9	Z	.01	2
75	MP-9	Z	.013	4
76	MP-12	Z	.006	.5
77	MP-1	Z	.018	6.5
78	MP-2	Z	.008	3.75
79	MP-2	Z	.008	7.75

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
80	MP-3	Z	.014	6.5
81	MP-4	Z	.018	6.5
82	MP-5	Z	.008	3.75
83	MP-5	Z	.008	7.75
84	MP-6	Z	.014	6.5
85	MP-7	Z	.01	6.5
86	MP-8	Z	.005	3.75
87	MP-8	Z	.005	7.75
88	MP-9	Z	.007	6.5

Member Point Loads (BLC 37 : Seismic Load X)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.054	3.5
2	MP-2	X	-.041	2.25
3	MP-2	X	-.022	6.25
4	MP-3	X	-.038	3.5
5	MP-1	X	-.06	2
6	MP-1	X	-.053	2
7	MP-1	X	-.048	4
8	MP-3	X	-.029	2
9	MP-3	X	-.071	2
10	MP-3	X	-.053	4
11	MP-10	X	-.019	.5
12	MP-4	X	-.054	3.5
13	MP-5	X	-.041	2.25
14	MP-5	X	-.022	6.25
15	MP-6	X	-.038	3.5
16	MP-4	X	-.06	2
17	MP-4	X	-.053	2
18	MP-4	X	-.048	4
19	MP-6	X	-.071	2
20	MP-6	X	-.053	4
21	MP-11	X	-.019	.5
22	MP-7	X	-.054	3.5
23	MP-8	X	-.041	2.25
24	MP-8	X	-.022	6.25
25	MP-9	X	-.038	3.5
26	MP-7	X	-.06	2
27	MP-7	X	-.053	2
28	MP-7	X	-.048	4
29	MP-9	X	-.029	2
30	MP-9	X	-.071	2
31	MP-9	X	-.053	4
32	MP-12	X	-.018	.5
33	MP-1	X	-.054	6.5
34	MP-2	X	-.041	3.75
35	MP-2	X	-.022	7.75
36	MP-3	X	-.038	6.5
37	MP-4	X	-.054	6.5
38	MP-5	X	-.041	3.75
39	MP-5	X	-.022	7.75
40	MP-6	X	-.038	6.5
41	MP-7	X	-.054	6.5
42	MP-8	X	-.041	3.75
43	MP-8	X	-.022	7.75
44	MP-9	X	-.038	6.5

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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Member Point Loads (BLC 38 : Seismic Load Z)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	Z	-.054	3.5
2	MP-2	Z	-.041	2.25
3	MP-2	Z	-.022	6.25
4	MP-3	Z	-.038	3.5
5	MP-1	Z	-.06	2
6	MP-1	Z	-.053	2
7	MP-1	Z	-.048	4
8	MP-3	Z	-.029	2
9	MP-3	Z	-.071	2
10	MP-3	Z	-.053	4
11	MP-10	Z	-.019	.5
12	MP-4	Z	-.054	3.5
13	MP-5	Z	-.041	2.25
14	MP-5	Z	-.022	6.25
15	MP-6	Z	-.038	3.5
16	MP-4	Z	-.06	2
17	MP-4	Z	-.053	2
18	MP-4	Z	-.048	4
19	MP-6	Z	-.071	2
20	MP-6	Z	-.053	4
21	MP-11	Z	-.019	.5
22	MP-7	Z	-.054	3.5
23	MP-8	Z	-.041	2.25
24	MP-8	Z	-.022	6.25
25	MP-9	Z	-.038	3.5
26	MP-7	Z	-.06	2
27	MP-7	Z	-.053	2
28	MP-7	Z	-.048	4
29	MP-9	Z	-.029	2
30	MP-9	Z	-.071	2
31	MP-9	Z	-.053	4
32	MP-12	Z	-.018	.5
33	MP-1	Z	-.054	6.5
34	MP-2	Z	-.041	3.75
35	MP-2	Z	-.022	7.75
36	MP-3	Z	-.038	6.5
37	MP-4	Z	-.054	6.5
38	MP-5	Z	-.041	3.75
39	MP-5	Z	-.022	7.75
40	MP-6	Z	-.038	6.5
41	MP-7	Z	-.054	6.5
42	MP-8	Z	-.041	3.75
43	MP-8	Z	-.022	7.75
44	MP-9	Z	-.038	6.5

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	SF2-TH	X	-.005	-.005	0	%100
2	SF3-TH	X	-.005	-.005	0	%100
3	FFTH-1	X	-.009	-.009	0	%100
4	FFBH-1	X	-.009	-.009	0	%100
5	FFTH-2	X	-.01	-.01	0	%100
6	FFBH-2	X	-.01	-.01	0	%100
7	FFTH-3	X	-.009	-.009	0	%100
8	FFBH-3	X	-.009	-.009	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
9	SF2-BH	X	-.005	-.005	0	%100
10	SF3-BH	X	-.005	-.005	0	%100
11	SF2-V2	X	0	0	0	%100
12	SF2-V1	X	0	0	0	%100
13	SF3-V1	X	0	0	0	%100
14	SF3-V2	X	0	0	0	%100
15	SF2-D1	X	-.003	-.003	0	%100
16	SF2-D4	X	-.003	-.003	0	%100
17	SF3-D1	X	-.003	-.003	0	%100
18	SF3-D4	X	-.003	-.003	0	%100
19	MP-2	X	-.01	-.01	0	%100
20	MP-1	X	-.01	-.01	0	%100
21	MP-3	X	-.01	-.01	0	%100
22	M39B	X	-.009	-.009	0	%100
23	TS-1	X	-.012	-.012	0	%100
24	TS-2	X	-.012	-.012	0	%100
25	SF6-TH	X	-.002	-.002	0	%100
26	SF-7 TH	X	-.007	-.007	0	%100
27	FFTH-7	X	-.003	-.003	0	%100
28	FFBH-7	X	-.003	-.003	0	%100
29	FFTH-8	X	-.004	-.004	0	%100
30	FFBH-8	X	-.004	-.004	0	%100
31	FFTH-9	X	-.003	-.003	0	%100
32	FFBH-9	X	-.003	-.003	0	%100
33	SF6-BH	X	-.002	-.002	0	%100
34	SF-7 BH	X	-.007	-.007	0	%100
35	SF-6 V2	X	0	0	0	%100
36	SF-6 V1	X	0	0	0	%100
37	SF-7 V1	X	0	0	0	%100
38	SF-7 V2	X	0	0	0	%100
39	SF-6 D1	X	-.000943	-.000943	0	%100
40	SF-6 D4	X	-.000943	-.000943	0	%100
41	SF-7 D1	X	-.004	-.004	0	%100
42	SF-7 D4	X	-.004	-.004	0	%100
43	M78	X	-.009	-.009	0	%100
44	TS-5	X	-.004	-.004	0	%100
45	TS-6	X	-.004	-.004	0	%100
46	SF-4 TH	X	-.007	-.007	0	%100
47	SF-5 TH	X	-.002	-.002	0	%100
48	FFTH-4	X	-.003	-.003	0	%100
49	FFBH-4	X	-.003	-.003	0	%100
50	FFTH-5	X	-.004	-.004	0	%100
51	FFBH-5	X	-.004	-.004	0	%100
52	FFTH-6	X	-.003	-.003	0	%100
53	FFBH-6	X	-.003	-.003	0	%100
54	SF4-BH	X	-.007	-.007	0	%100
55	SF5-BH	X	-.002	-.002	0	%100
56	SF-4 V2	X	0	0	0	%100
57	SF-4 V1	X	0	0	0	%100
58	SF-5 V1	X	0	0	0	%100
59	SF-5 V2	X	0	0	0	%100
60	SF-4 D1	X	-.004	-.004	0	%100
61	SF-4 D4	X	-.004	-.004	0	%100
62	SF-5 D1	X	-.000943	-.000943	0	%100
63	SF-5 D4	X	-.000943	-.000943	0	%100
64	M118	X	-.009	-.009	0	%100
65	TS-3	X	-.004	-.004	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
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Member Distributed Loads (BLC 2 : 0 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
66	TS-4	X	-.004	-.004	0	%100
67	SA-1	X	-.008	-.008	0	%100
68	SA-3	X	-.000698	-.000698	0	%100
69	SA-2	X	-.009	-.009	0	%100
70	MP-10	X	-.01	-.01	0	%100
71	MP-12	X	-.01	-.01	0	%100
72	MP-11	X	-.01	-.01	0	%100
73	MP-8	X	-.01	-.01	0	%100
74	MP-7	X	-.01	-.01	0	%100
75	MP-9	X	-.01	-.01	0	%100
76	MP-5	X	-.01	-.01	0	%100
77	MP-4	X	-.01	-.01	0	%100
78	MP-6	X	-.01	-.01	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	SF2-TH	X	-.006	-.006	0	%100
2	SF3-TH	X	-.002	-.002	0	%100
3	FFTH-1	X	-.007	-.007	0	%100
4	FFBH-1	X	-.007	-.007	0	%100
5	FFTH-2	X	-.008	-.008	0	%100
6	FFBH-2	X	-.008	-.008	0	%100
7	FFTH-3	X	-.007	-.007	0	%100
8	FFBH-3	X	-.007	-.007	0	%100
9	SF2-BH	X	-.006	-.006	0	%100
10	SF3-BH	X	-.002	-.002	0	%100
11	SF2-V2	X	-.003	-.003	0	%100
12	SF2-V1	X	-.003	-.003	0	%100
13	SF3-V1	X	-.003	-.003	0	%100
14	SF3-V2	X	-.003	-.003	0	%100
15	SF2-D1	X	-.005	-.005	0	%100
16	SF2-D4	X	-.005	-.005	0	%100
17	SF3-D1	X	-.005	-.005	0	%100
18	SF3-D4	X	-.005	-.005	0	%100
19	MP-2	X	-.009	-.009	0	%100
20	MP-1	X	-.009	-.009	0	%100
21	MP-3	X	-.009	-.009	0	%100
22	M39B	X	-.008	-.008	0	%100
23	TS-1	X	-.009	-.009	0	%100
24	TS-2	X	-.009	-.009	0	%100
25	SF6-TH	X	-.001	-.001	0	%100
26	SF-7 TH	X	-.006	-.006	0	%100
27	FFTH-7	X	-.005	-.005	0	%100
28	FFBH-7	X	-.005	-.005	0	%100
29	FFTH-8	X	-.005	-.005	0	%100
30	FFBH-8	X	-.005	-.005	0	%100
31	FFTH-9	X	-.005	-.005	0	%100
32	FFBH-9	X	-.005	-.005	0	%100
33	SF6-BH	X	-.001	-.001	0	%100
34	SF-7 BH	X	-.006	-.006	0	%100
35	SF-6 V2	X	-.003	-.003	0	%100
36	SF-6 V1	X	-.003	-.003	0	%100
37	SF-7 V1	X	-.003	-.003	0	%100
38	SF-7 V2	X	-.003	-.003	0	%100
39	SF-6 D1	X	-.003	-.003	0	%100
40	SF-6 D4	X	-.003	-.003	0	%100

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,%]
41	SF-7 D1	X	-.006	-.006	0	%100
42	SF-7 D4	X	-.006	-.006	0	%100
43	M78	X	-.008	-.008	0	%100
44	TS-5	X	-.006	-.006	0	%100
45	TS-6	X	-.006	-.006	0	%100
46	SF-4 TH	X	-.005	-.005	0	%100
47	SF-5 TH	X	-.004	-.004	0	%100
48	FFTH-4	X	0	0	0	%100
49	FFBH-4	X	0	0	0	%100
50	FFTH-5	X	0	0	0	%100
51	FFBH-5	X	0	0	0	%100
52	FFTH-6	X	0	0	0	%100
53	FFBH-6	X	0	0	0	%100
54	SF4-BH	X	-.005	-.005	0	%100
55	SF5-BH	X	-.004	-.004	0	%100
56	SF-4 V2	X	-.003	-.003	0	%100
57	SF-4 V1	X	-.003	-.003	0	%100
58	SF-5 V1	X	-.003	-.003	0	%100
59	SF-5 V2	X	-.003	-.003	0	%100
60	SF-4 D1	X	-.006	-.006	0	%100
61	SF-4 D4	X	-.006	-.006	0	%100
62	SF-5 D1	X	-.003	-.003	0	%100
63	SF-5 D4	X	-.003	-.003	0	%100
64	M118	X	-.008	-.008	0	%100
65	TS-3	X	0	0	0	%100
66	TS-4	X	0	0	0	%100
67	SA-1	X	-.009	-.009	0	%100
68	SA-3	X	-.002	-.002	0	%100
69	SA-2	X	-.005	-.005	0	%100
70	MP-10	X	-.009	-.009	0	%100
71	MP-12	X	-.009	-.009	0	%100
72	MP-11	X	-.009	-.009	0	%100
73	MP-8	X	-.009	-.009	0	%100
74	MP-7	X	-.009	-.009	0	%100
75	MP-9	X	-.009	-.009	0	%100
76	MP-5	X	-.009	-.009	0	%100
77	MP-4	X	-.009	-.009	0	%100
78	MP-6	X	-.009	-.009	0	%100
79	SF2-TH	Z	-.003	-.003	0	%100
80	SF3-TH	Z	-.000924	-.000924	0	%100
81	FFTH-1	Z	-.004	-.004	0	%100
82	FFBH-1	Z	-.004	-.004	0	%100
83	FFTH-2	Z	-.004	-.004	0	%100
84	FFBH-2	Z	-.004	-.004	0	%100
85	FFTH-3	Z	-.004	-.004	0	%100
86	FFBH-3	Z	-.004	-.004	0	%100
87	SF2-BH	Z	-.003	-.003	0	%100
88	SF3-BH	Z	-.000924	-.000924	0	%100
89	SF2-V2	Z	-.002	-.002	0	%100
90	SF2-V1	Z	-.002	-.002	0	%100
91	SF3-V1	Z	-.002	-.002	0	%100
92	SF3-V2	Z	-.002	-.002	0	%100
93	SF2-D1	Z	-.004	-.004	0	%100
94	SF2-D4	Z	-.004	-.004	0	%100
95	SF3-D1	Z	-.004	-.004	0	%100
96	SF3-D4	Z	-.004	-.004	0	%100
97	MP-2	Z	-.005	-.005	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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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,%]
98	MP-1	Z	-.005	-.005	0	%100
99	MP-3	Z	-.005	-.005	0	%100
100	M39B	Z	-.005	-.005	0	%100
101	TS-1	Z	-.005	-.005	0	%100
102	TS-2	Z	-.005	-.005	0	%100
103	SF6-TH	Z	-.001	-.001	0	%100
104	SF-7 TH	Z	-.003	-.003	0	%100
105	FFTH-7	Z	-.004	-.004	0	%100
106	FFBH-7	Z	-.004	-.004	0	%100
107	FFTH-8	Z	-.004	-.004	0	%100
108	FFBH-8	Z	-.004	-.004	0	%100
109	FFTH-9	Z	-.004	-.004	0	%100
110	FFBH-9	Z	-.004	-.004	0	%100
111	SF6-BH	Z	-.001	-.001	0	%100
112	SF-7 BH	Z	-.003	-.003	0	%100
113	SF-6 V2	Z	-.002	-.002	0	%100
114	SF-6 V1	Z	-.002	-.002	0	%100
115	SF-7 V1	Z	-.002	-.002	0	%100
116	SF-7 V2	Z	-.002	-.002	0	%100
117	SF-6 D1	Z	-.003	-.003	0	%100
118	SF-6 D4	Z	-.003	-.003	0	%100
119	SF-7 D1	Z	-.004	-.004	0	%100
120	SF-7 D4	Z	-.004	-.004	0	%100
121	M78	Z	-.005	-.005	0	%100
122	TS-5	Z	-.005	-.005	0	%100
123	TS-6	Z	-.005	-.005	0	%100
124	SF-4 TH	Z	-.002	-.002	0	%100
125	SF-5 TH	Z	-.003	-.003	0	%100
126	FFTH-4	Z	0	0	0	%100
127	FFBH-4	Z	0	0	0	%100
128	FFTH-5	Z	0	0	0	%100
129	FFBH-5	Z	0	0	0	%100
130	FFTH-6	Z	0	0	0	%100
131	FFBH-6	Z	0	0	0	%100
132	SF4-BH	Z	-.002	-.002	0	%100
133	SF5-BH	Z	-.003	-.003	0	%100
134	SF-4 V2	Z	-.002	-.002	0	%100
135	SF-4 V1	Z	-.002	-.002	0	%100
136	SF-5 V1	Z	-.002	-.002	0	%100
137	SF-5 V2	Z	-.002	-.002	0	%100
138	SF-4 D1	Z	-.004	-.004	0	%100
139	SF-4 D4	Z	-.004	-.004	0	%100
140	SF-5 D1	Z	-.003	-.003	0	%100
141	SF-5 D4	Z	-.003	-.003	0	%100
142	M118	Z	-.005	-.005	0	%100
143	TS-3	Z	0	0	0	%100
144	TS-4	Z	0	0	0	%100
145	SA-1	Z	-.005	-.005	0	%100
146	SA-3	Z	-.002	-.002	0	%100
147	SA-2	Z	-.002	-.002	0	%100
148	MP-10	Z	-.005	-.005	0	%100
149	MP-12	Z	-.005	-.005	0	%100
150	MP-11	Z	-.005	-.005	0	%100
151	MP-8	Z	-.005	-.005	0	%100
152	MP-7	Z	-.005	-.005	0	%100
153	MP-9	Z	-.005	-.005	0	%100
154	MP-5	Z	-.005	-.005	0	%100

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,%]
155	MP-4	Z	-.005	-.005	0	%100
156	MP-6	Z	-.005	-.005	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	SF2-TH	X	-.005	-.005	0	%100
2	SF3-TH	X	0	0	0	%100
3	FFTH-1	X	-.004	-.004	0	%100
4	FFBH-1	X	-.004	-.004	0	%100
5	FFTH-2	X	-.005	-.005	0	%100
6	FFBH-2	X	-.005	-.005	0	%100
7	FFTH-3	X	-.004	-.004	0	%100
8	FFBH-3	X	-.004	-.004	0	%100
9	SF2-BH	X	-.005	-.005	0	%100
10	SF3-BH	X	0	0	0	%100
11	SF2-V2	X	-.003	-.003	0	%100
12	SF2-V1	X	-.003	-.003	0	%100
13	SF3-V1	X	-.003	-.003	0	%100
14	SF3-V2	X	-.003	-.003	0	%100
15	SF2-D1	X	-.005	-.005	0	%100
16	SF2-D4	X	-.005	-.005	0	%100
17	SF3-D1	X	-.005	-.005	0	%100
18	SF3-D4	X	-.005	-.005	0	%100
19	MP-2	X	-.007	-.007	0	%100
20	MP-1	X	-.007	-.007	0	%100
21	MP-3	X	-.007	-.007	0	%100
22	M39B	X	-.007	-.007	0	%100
23	TS-1	X	-.006	-.006	0	%100
24	TS-2	X	-.006	-.006	0	%100
25	SF6-TH	X	-.002	-.002	0	%100
26	SF-7 TH	X	-.005	-.005	0	%100
27	FFTH-7	X	-.004	-.004	0	%100
28	FFBH-7	X	-.004	-.004	0	%100
29	FFTH-8	X	-.005	-.005	0	%100
30	FFBH-8	X	-.005	-.005	0	%100
31	FFTH-9	X	-.004	-.004	0	%100
32	FFBH-9	X	-.004	-.004	0	%100
33	SF6-BH	X	-.002	-.002	0	%100
34	SF-7 BH	X	-.005	-.005	0	%100
35	SF-6 V2	X	-.003	-.003	0	%100
36	SF-6 V1	X	-.003	-.003	0	%100
37	SF-7 V1	X	-.003	-.003	0	%100
38	SF-7 V2	X	-.003	-.003	0	%100
39	SF-6 D1	X	-.003	-.003	0	%100
40	SF-6 D4	X	-.003	-.003	0	%100
41	SF-7 D1	X	-.005	-.005	0	%100
42	SF-7 D4	X	-.005	-.005	0	%100
43	M78	X	-.007	-.007	0	%100
44	TS-5	X	-.006	-.006	0	%100
45	TS-6	X	-.006	-.006	0	%100
46	SF-4 TH	X	-.003	-.003	0	%100
47	SF-5 TH	X	-.004	-.004	0	%100
48	FFTH-4	X	-.001	-.001	0	%100
49	FFBH-4	X	-.001	-.001	0	%100
50	FFTH-5	X	-.001	-.001	0	%100
51	FFBH-5	X	-.001	-.001	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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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,%]
52	FFTH-6	X	-.001	-.001	0	%100
53	FFBH-6	X	-.001	-.001	0	%100
54	SF4-BH	X	-.003	-.003	0	%100
55	SF5-BH	X	-.004	-.004	0	%100
56	SF-4 V2	X	-.003	-.003	0	%100
57	SF-4 V1	X	-.003	-.003	0	%100
58	SF-5 V1	X	-.003	-.003	0	%100
59	SF-5 V2	X	-.003	-.003	0	%100
60	SF-4 D1	X	-.005	-.005	0	%100
61	SF-4 D4	X	-.005	-.005	0	%100
62	SF-5 D1	X	-.003	-.003	0	%100
63	SF-5 D4	X	-.003	-.003	0	%100
64	M118	X	-.007	-.007	0	%100
65	TS-3	X	-.002	-.002	0	%100
66	TS-4	X	-.002	-.002	0	%100
67	SA-1	X	-.007	-.007	0	%100
68	SA-3	X	-.003	-.003	0	%100
69	SA-2	X	-.003	-.003	0	%100
70	MP-10	X	-.007	-.007	0	%100
71	MP-12	X	-.007	-.007	0	%100
72	MP-11	X	-.007	-.007	0	%100
73	MP-8	X	-.007	-.007	0	%100
74	MP-7	X	-.007	-.007	0	%100
75	MP-9	X	-.007	-.007	0	%100
76	MP-5	X	-.007	-.007	0	%100
77	MP-4	X	-.007	-.007	0	%100
78	MP-6	X	-.007	-.007	0	%100
79	SF2-TH	Z	-.005	-.005	0	%100
80	SF3-TH	Z	0	0	0	%100
81	FFTH-1	Z	-.004	-.004	0	%100
82	FFBH-1	Z	-.004	-.004	0	%100
83	FFTH-2	Z	-.005	-.005	0	%100
84	FFBH-2	Z	-.005	-.005	0	%100
85	FFTH-3	Z	-.004	-.004	0	%100
86	FFBH-3	Z	-.004	-.004	0	%100
87	SF2-BH	Z	-.005	-.005	0	%100
88	SF3-BH	Z	0	0	0	%100
89	SF2-V2	Z	-.004	-.004	0	%100
90	SF2-V1	Z	-.004	-.004	0	%100
91	SF3-V1	Z	-.004	-.004	0	%100
92	SF3-V2	Z	-.004	-.004	0	%100
93	SF2-D1	Z	-.006	-.006	0	%100
94	SF2-D4	Z	-.006	-.006	0	%100
95	SF3-D1	Z	-.006	-.006	0	%100
96	SF3-D4	Z	-.006	-.006	0	%100
97	MP-2	Z	-.007	-.007	0	%100
98	MP-1	Z	-.007	-.007	0	%100
99	MP-3	Z	-.007	-.007	0	%100
100	M39B	Z	-.007	-.007	0	%100
101	TS-1	Z	-.006	-.006	0	%100
102	TS-2	Z	-.006	-.006	0	%100
103	SF6-TH	Z	-.003	-.003	0	%100
104	SF-7 TH	Z	-.004	-.004	0	%100
105	FFTH-7	Z	-.006	-.006	0	%100
106	FFBH-7	Z	-.006	-.006	0	%100
107	FFTH-8	Z	-.007	-.007	0	%100
108	FFBH-8	Z	-.007	-.007	0	%100

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,%]
109	FFTH-9	Z	-.006	-.006	0	%100
110	FFBH-9	Z	-.006	-.006	0	%100
111	SF6-BH	Z	-.003	-.003	0	%100
112	SF-7 BH	Z	-.004	-.004	0	%100
113	SF-6 V2	Z	-.004	-.004	0	%100
114	SF-6 V1	Z	-.004	-.004	0	%100
115	SF-7 V1	Z	-.004	-.004	0	%100
116	SF-7 V2	Z	-.004	-.004	0	%100
117	SF-6 D1	Z	-.005	-.005	0	%100
118	SF-6 D4	Z	-.005	-.005	0	%100
119	SF-7 D1	Z	-.006	-.006	0	%100
120	SF-7 D4	Z	-.006	-.006	0	%100
121	M78	Z	-.007	-.007	0	%100
122	TS-5	Z	-.008	-.008	0	%100
123	TS-6	Z	-.008	-.008	0	%100
124	SF-4 TH	Z	-.002	-.002	0	%100
125	SF-5 TH	Z	-.005	-.005	0	%100
126	FFTH-4	Z	-.002	-.002	0	%100
127	FFBH-4	Z	-.002	-.002	0	%100
128	FFTH-5	Z	-.002	-.002	0	%100
129	FFBH-5	Z	-.002	-.002	0	%100
130	FFTH-6	Z	-.002	-.002	0	%100
131	FFBH-6	Z	-.002	-.002	0	%100
132	SF4-BH	Z	-.002	-.002	0	%100
133	SF5-BH	Z	-.005	-.005	0	%100
134	SF-4 V2	Z	-.004	-.004	0	%100
135	SF-4 V1	Z	-.004	-.004	0	%100
136	SF-5 V1	Z	-.004	-.004	0	%100
137	SF-5 V2	Z	-.004	-.004	0	%100
138	SF-4 D1	Z	-.006	-.006	0	%100
139	SF-4 D4	Z	-.006	-.006	0	%100
140	SF-5 D1	Z	-.005	-.005	0	%100
141	SF-5 D4	Z	-.005	-.005	0	%100
142	M118	Z	-.007	-.007	0	%100
143	TS-3	Z	-.002	-.002	0	%100
144	TS-4	Z	-.002	-.002	0	%100
145	SA-1	Z	-.006	-.006	0	%100
146	SA-3	Z	-.004	-.004	0	%100
147	SA-2	Z	-.002	-.002	0	%100
148	MP-10	Z	-.007	-.007	0	%100
149	MP-12	Z	-.007	-.007	0	%100
150	MP-11	Z	-.007	-.007	0	%100
151	MP-8	Z	-.007	-.007	0	%100
152	MP-7	Z	-.007	-.007	0	%100
153	MP-9	Z	-.007	-.007	0	%100
154	MP-5	Z	-.007	-.007	0	%100
155	MP-4	Z	-.007	-.007	0	%100
156	MP-6	Z	-.007	-.007	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	SF2-TH	X	-.003	-.003	0	%100
2	SF3-TH	X	-.000924	-.000924	0	%100
3	FFTH-1	X	-.002	-.002	0	%100
4	FFBH-1	X	-.002	-.002	0	%100
5	FFTH-2	X	-.003	-.003	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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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,%]
6	FFBH-2	X	-.003	-.003	0	%100
7	FFTH-3	X	-.002	-.002	0	%100
8	FFBH-3	X	-.002	-.002	0	%100
9	SF2-BH	X	-.003	-.003	0	%100
10	SF3-BH	X	-.000924	-.000924	0	%100
11	SF2-V2	X	-.003	-.003	0	%100
12	SF2-V1	X	-.003	-.003	0	%100
13	SF3-V1	X	-.003	-.003	0	%100
14	SF3-V2	X	-.003	-.003	0	%100
15	SF2-D1	X	-.004	-.004	0	%100
16	SF2-D4	X	-.004	-.004	0	%100
17	SF3-D1	X	-.004	-.004	0	%100
18	SF3-D4	X	-.004	-.004	0	%100
19	MP-2	X	-.005	-.005	0	%100
20	MP-1	X	-.005	-.005	0	%100
21	MP-3	X	-.005	-.005	0	%100
22	M39B	X	-.005	-.005	0	%100
23	TS-1	X	-.003	-.003	0	%100
24	TS-2	X	-.003	-.003	0	%100
25	SF6-TH	X	-.002	-.002	0	%100
26	SF-7 TH	X	-.003	-.003	0	%100
27	FFTH-7	X	-.003	-.003	0	%100
28	FFBH-7	X	-.003	-.003	0	%100
29	FFTH-8	X	-.004	-.004	0	%100
30	FFBH-8	X	-.004	-.004	0	%100
31	FFTH-9	X	-.003	-.003	0	%100
32	FFBH-9	X	-.003	-.003	0	%100
33	SF6-BH	X	-.002	-.002	0	%100
34	SF-7 BH	X	-.003	-.003	0	%100
35	SF-6 V2	X	-.003	-.003	0	%100
36	SF-6 V1	X	-.003	-.003	0	%100
37	SF-7 V1	X	-.003	-.003	0	%100
38	SF-7 V2	X	-.003	-.003	0	%100
39	SF-6 D1	X	-.003	-.003	0	%100
40	SF-6 D4	X	-.003	-.003	0	%100
41	SF-7 D1	X	-.004	-.004	0	%100
42	SF-7 D4	X	-.004	-.004	0	%100
43	M78	X	-.005	-.005	0	%100
44	TS-5	X	-.004	-.004	0	%100
45	TS-6	X	-.004	-.004	0	%100
46	SF-4 TH	X	-.001	-.001	0	%100
47	SF-5 TH	X	-.003	-.003	0	%100
48	FFTH-4	X	-.002	-.002	0	%100
49	FFBH-4	X	-.002	-.002	0	%100
50	FFTH-5	X	-.002	-.002	0	%100
51	FFBH-5	X	-.002	-.002	0	%100
52	FFTH-6	X	-.002	-.002	0	%100
53	FFBH-6	X	-.002	-.002	0	%100
54	SF4-BH	X	-.001	-.001	0	%100
55	SF5-BH	X	-.003	-.003	0	%100
56	SF-4 V2	X	-.003	-.003	0	%100
57	SF-4 V1	X	-.003	-.003	0	%100
58	SF-5 V1	X	-.003	-.003	0	%100
59	SF-5 V2	X	-.003	-.003	0	%100
60	SF-4 D1	X	-.004	-.004	0	%100
61	SF-4 D4	X	-.004	-.004	0	%100
62	SF-5 D1	X	-.003	-.003	0	%100

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,%]
63	SF-5 D4	X	-.003	-.003	0	%100
64	M118	X	-.005	-.005	0	%100
65	TS-3	X	-.002	-.002	0	%100
66	TS-4	X	-.002	-.002	0	%100
67	SA-1	X	-.005	-.005	0	%100
68	SA-3	X	-.002	-.002	0	%100
69	SA-2	X	-.000574	-.000574	0	%100
70	MP-10	X	-.005	-.005	0	%100
71	MP-12	X	-.005	-.005	0	%100
72	MP-11	X	-.005	-.005	0	%100
73	MP-8	X	-.005	-.005	0	%100
74	MP-7	X	-.005	-.005	0	%100
75	MP-9	X	-.005	-.005	0	%100
76	MP-5	X	-.005	-.005	0	%100
77	MP-4	X	-.005	-.005	0	%100
78	MP-6	X	-.005	-.005	0	%100
79	SF2-TH	Z	-.006	-.006	0	%100
80	SF3-TH	Z	-.002	-.002	0	%100
81	FFTH-1	Z	-.004	-.004	0	%100
82	FFBH-1	Z	-.004	-.004	0	%100
83	FFTH-2	Z	-.004	-.004	0	%100
84	FFBH-2	Z	-.004	-.004	0	%100
85	FFTH-3	Z	-.004	-.004	0	%100
86	FFBH-3	Z	-.004	-.004	0	%100
87	SF2-BH	Z	-.006	-.006	0	%100
88	SF3-BH	Z	-.002	-.002	0	%100
89	SF2-V2	Z	-.006	-.006	0	%100
90	SF2-V1	Z	-.006	-.006	0	%100
91	SF3-V1	Z	-.006	-.006	0	%100
92	SF3-V2	Z	-.006	-.006	0	%100
93	SF2-D1	Z	-.008	-.008	0	%100
94	SF2-D4	Z	-.008	-.008	0	%100
95	SF3-D1	Z	-.008	-.008	0	%100
96	SF3-D4	Z	-.008	-.008	0	%100
97	MP-2	Z	-.009	-.009	0	%100
98	MP-1	Z	-.009	-.009	0	%100
99	MP-3	Z	-.009	-.009	0	%100
100	M39B	Z	-.008	-.008	0	%100
101	TS-1	Z	-.005	-.005	0	%100
102	TS-2	Z	-.005	-.005	0	%100
103	SF6-TH	Z	-.005	-.005	0	%100
104	SF-7 TH	Z	-.004	-.004	0	%100
105	FFTH-7	Z	-.007	-.007	0	%100
106	FFBH-7	Z	-.007	-.007	0	%100
107	FFTH-8	Z	-.008	-.008	0	%100
108	FFBH-8	Z	-.008	-.008	0	%100
109	FFTH-9	Z	-.007	-.007	0	%100
110	FFBH-9	Z	-.007	-.007	0	%100
111	SF6-BH	Z	-.005	-.005	0	%100
112	SF-7 BH	Z	-.004	-.004	0	%100
113	SF-6 V2	Z	-.006	-.006	0	%100
114	SF-6 V1	Z	-.006	-.006	0	%100
115	SF-7 V1	Z	-.006	-.006	0	%100
116	SF-7 V2	Z	-.006	-.006	0	%100
117	SF-6 D1	Z	-.008	-.008	0	%100
118	SF-6 D4	Z	-.008	-.008	0	%100
119	SF-7 D1	Z	-.007	-.007	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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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,%]
120	SF-7 D4	Z	-.007	-.007	0	%100
121	M78	Z	-.008	-.008	0	%100
122	TS-5	Z	-.01	-.01	0	%100
123	TS-6	Z	-.01	-.01	0	%100
124	SF-4 TH	Z	-.001	-.001	0	%100
125	SF-5 TH	Z	-.006	-.006	0	%100
126	FFTH-4	Z	-.004	-.004	0	%100
127	FFBH-4	Z	-.004	-.004	0	%100
128	FFTH-5	Z	-.004	-.004	0	%100
129	FFBH-5	Z	-.004	-.004	0	%100
130	FFTH-6	Z	-.004	-.004	0	%100
131	FFBH-6	Z	-.004	-.004	0	%100
132	SF4-BH	Z	-.001	-.001	0	%100
133	SF5-BH	Z	-.006	-.006	0	%100
134	SF-4 V2	Z	-.006	-.006	0	%100
135	SF-4 V1	Z	-.006	-.006	0	%100
136	SF-5 V1	Z	-.006	-.006	0	%100
137	SF-5 V2	Z	-.006	-.006	0	%100
138	SF-4 D1	Z	-.007	-.007	0	%100
139	SF-4 D4	Z	-.007	-.007	0	%100
140	SF-5 D1	Z	-.008	-.008	0	%100
141	SF-5 D4	Z	-.008	-.008	0	%100
142	M118	Z	-.008	-.008	0	%100
143	TS-3	Z	-.005	-.005	0	%100
144	TS-4	Z	-.005	-.005	0	%100
145	SA-1	Z	-.007	-.007	0	%100
146	SA-3	Z	-.007	-.007	0	%100
147	SA-2	Z	-.000783	-.000783	0	%100
148	MP-10	Z	-.009	-.009	0	%100
149	MP-12	Z	-.009	-.009	0	%100
150	MP-11	Z	-.009	-.009	0	%100
151	MP-8	Z	-.009	-.009	0	%100
152	MP-7	Z	-.009	-.009	0	%100
153	MP-9	Z	-.009	-.009	0	%100
154	MP-5	Z	-.009	-.009	0	%100
155	MP-4	Z	-.009	-.009	0	%100
156	MP-6	Z	-.009	-.009	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	SF2-TH	Z	-.005	-.005	0	%100
2	SF3-TH	Z	-.005	-.005	0	%100
3	FFTH-1	Z	0	0	0	%100
4	FFBH-1	Z	0	0	0	%100
5	FFTH-2	Z	0	0	0	%100
6	FFBH-2	Z	0	0	0	%100
7	FFTH-3	Z	0	0	0	%100
8	FFBH-3	Z	0	0	0	%100
9	SF2-BH	Z	-.005	-.005	0	%100
10	SF3-BH	Z	-.005	-.005	0	%100
11	SF2-V2	Z	-.009	-.009	0	%100
12	SF2-V1	Z	-.009	-.009	0	%100
13	SF3-V1	Z	-.009	-.009	0	%100
14	SF3-V2	Z	-.009	-.009	0	%100
15	SF2-D1	Z	-.008	-.008	0	%100
16	SF2-D4	Z	-.008	-.008	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
17	SF3-D1	Z	-.008	-.008	0	%100
18	SF3-D4	Z	-.008	-.008	0	%100
19	MP-2	Z	-.01	-.01	0	%100
20	MP-1	Z	-.01	-.01	0	%100
21	MP-3	Z	-.01	-.01	0	%100
22	M39B	Z	-.009	-.009	0	%100
23	TS-1	Z	0	0	0	%100
24	TS-2	Z	0	0	0	%100
25	SF6-TH	Z	-.007	-.007	0	%100
26	SF-7 TH	Z	-.002	-.002	0	%100
27	FFTH-7	Z	-.007	-.007	0	%100
28	FFBH-7	Z	-.007	-.007	0	%100
29	FFTH-8	Z	-.008	-.008	0	%100
30	FFBH-8	Z	-.008	-.008	0	%100
31	FFTH-9	Z	-.007	-.007	0	%100
32	FFBH-9	Z	-.007	-.007	0	%100
33	SF6-BH	Z	-.007	-.007	0	%100
34	SF-7 BH	Z	-.002	-.002	0	%100
35	SF-6 V2	Z	-.009	-.009	0	%100
36	SF-6 V1	Z	-.009	-.009	0	%100
37	SF-7 V1	Z	-.009	-.009	0	%100
38	SF-7 V2	Z	-.009	-.009	0	%100
39	SF-6 D1	Z	-.009	-.009	0	%100
40	SF-6 D4	Z	-.009	-.009	0	%100
41	SF-7 D1	Z	-.007	-.007	0	%100
42	SF-7 D4	Z	-.007	-.007	0	%100
43	M78	Z	-.009	-.009	0	%100
44	TS-5	Z	-.01	-.01	0	%100
45	TS-6	Z	-.01	-.01	0	%100
46	SF-4 TH	Z	-.002	-.002	0	%100
47	SF-5 TH	Z	-.007	-.007	0	%100
48	FFTH-4	Z	-.007	-.007	0	%100
49	FFBH-4	Z	-.007	-.007	0	%100
50	FFTH-5	Z	-.008	-.008	0	%100
51	FFBH-5	Z	-.008	-.008	0	%100
52	FFTH-6	Z	-.007	-.007	0	%100
53	FFBH-6	Z	-.007	-.007	0	%100
54	SF4-BH	Z	-.002	-.002	0	%100
55	SF5-BH	Z	-.007	-.007	0	%100
56	SF-4 V2	Z	-.009	-.009	0	%100
57	SF-4 V1	Z	-.009	-.009	0	%100
58	SF-5 V1	Z	-.009	-.009	0	%100
59	SF-5 V2	Z	-.009	-.009	0	%100
60	SF-4 D1	Z	-.007	-.007	0	%100
61	SF-4 D4	Z	-.007	-.007	0	%100
62	SF-5 D1	Z	-.009	-.009	0	%100
63	SF-5 D4	Z	-.009	-.009	0	%100
64	M118	Z	-.009	-.009	0	%100
65	TS-3	Z	-.01	-.01	0	%100
66	TS-4	Z	-.01	-.01	0	%100
67	SA-1	Z	-.006	-.006	0	%100
68	SA-3	Z	-.01	-.01	0	%100
69	SA-2	Z	-.003	-.003	0	%100
70	MP-10	Z	-.01	-.01	0	%100
71	MP-12	Z	-.01	-.01	0	%100
72	MP-11	Z	-.01	-.01	0	%100
73	MP-8	Z	-.01	-.01	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
74	MP-7	Z	-.01	-.01	0	%100
75	MP-9	Z	-.01	-.01	0	%100
76	MP-5	Z	-.01	-.01	0	%100
77	MP-4	Z	-.01	-.01	0	%100
78	MP-6	Z	-.01	-.01	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	SF2-TH	X	.000924	.000924	0	%100
2	SF3-TH	X	.003	.003	0	%100
3	FFTH-1	X	.002	.002	0	%100
4	FFBH-1	X	.002	.002	0	%100
5	FFTH-2	X	.003	.003	0	%100
6	FFBH-2	X	.003	.003	0	%100
7	FFTH-3	X	.002	.002	0	%100
8	FFBH-3	X	.002	.002	0	%100
9	SF2-BH	X	.000924	.000924	0	%100
10	SF3-BH	X	.003	.003	0	%100
11	SF2-V2	X	.003	.003	0	%100
12	SF2-V1	X	.003	.003	0	%100
13	SF3-V1	X	.003	.003	0	%100
14	SF3-V2	X	.003	.003	0	%100
15	SF2-D1	X	.002	.002	0	%100
16	SF2-D4	X	.002	.002	0	%100
17	SF3-D1	X	.002	.002	0	%100
18	SF3-D4	X	.002	.002	0	%100
19	MP-2	X	.005	.005	0	%100
20	MP-1	X	.005	.005	0	%100
21	MP-3	X	.005	.005	0	%100
22	M39B	X	.005	.005	0	%100
23	TS-1	X	.003	.003	0	%100
24	TS-2	X	.003	.003	0	%100
25	SF6-TH	X	.003	.003	0	%100
26	SF-7 TH	X	.001	.001	0	%100
27	FFTH-7	X	.002	.002	0	%100
28	FFBH-7	X	.002	.002	0	%100
29	FFTH-8	X	.002	.002	0	%100
30	FFBH-8	X	.002	.002	0	%100
31	FFTH-9	X	.002	.002	0	%100
32	FFBH-9	X	.002	.002	0	%100
33	SF6-BH	X	.003	.003	0	%100
34	SF-7 BH	X	.001	.001	0	%100
35	SF-6 V2	X	.003	.003	0	%100
36	SF-6 V1	X	.003	.003	0	%100
37	SF-7 V1	X	.003	.003	0	%100
38	SF-7 V2	X	.003	.003	0	%100
39	SF-6 D1	X	.002	.002	0	%100
40	SF-6 D4	X	.002	.002	0	%100
41	SF-7 D1	X	.002	.002	0	%100
42	SF-7 D4	X	.002	.002	0	%100
43	M78	X	.005	.005	0	%100
44	TS-5	X	.002	.002	0	%100
45	TS-6	X	.002	.002	0	%100
46	SF-4 TH	X	.003	.003	0	%100
47	SF-5 TH	X	.002	.002	0	%100
48	FFTH-4	X	.003	.003	0	%100

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,%]
49	FFBH-4	X	.003	.003	0	%100
50	FFTH-5	X	.004	.004	0	%100
51	FFBH-5	X	.004	.004	0	%100
52	FFTH-6	X	.003	.003	0	%100
53	FFBH-6	X	.003	.003	0	%100
54	SF4-BH	X	.003	.003	0	%100
55	SF5-BH	X	.002	.002	0	%100
56	SF-4 V2	X	.003	.003	0	%100
57	SF-4 V1	X	.003	.003	0	%100
58	SF-5 V1	X	.003	.003	0	%100
59	SF-5 V2	X	.003	.003	0	%100
60	SF-4 D1	X	.002	.002	0	%100
61	SF-4 D4	X	.002	.002	0	%100
62	SF-5 D1	X	.002	.002	0	%100
63	SF-5 D4	X	.002	.002	0	%100
64	M118	X	.005	.005	0	%100
65	TS-3	X	.004	.004	0	%100
66	TS-4	X	.004	.004	0	%100
67	SA-1	X	.000574	.000574	0	%100
68	SA-3	X	.003	.003	0	%100
69	SA-2	X	.004	.004	0	%100
70	MP-10	X	.005	.005	0	%100
71	MP-12	X	.005	.005	0	%100
72	MP-11	X	.005	.005	0	%100
73	MP-8	X	.005	.005	0	%100
74	MP-7	X	.005	.005	0	%100
75	MP-9	X	.005	.005	0	%100
76	MP-5	X	.005	.005	0	%100
77	MP-4	X	.005	.005	0	%100
78	MP-6	X	.005	.005	0	%100
79	SF2-TH	Z	-.002	-.002	0	%100
80	SF3-TH	Z	-.006	-.006	0	%100
81	FFTH-1	Z	-.004	-.004	0	%100
82	FFBH-1	Z	-.004	-.004	0	%100
83	FFTH-2	Z	-.004	-.004	0	%100
84	FFBH-2	Z	-.004	-.004	0	%100
85	FFTH-3	Z	-.004	-.004	0	%100
86	FFBH-3	Z	-.004	-.004	0	%100
87	SF2-BH	Z	-.002	-.002	0	%100
88	SF3-BH	Z	-.006	-.006	0	%100
89	SF2-V2	Z	-.006	-.006	0	%100
90	SF2-V1	Z	-.006	-.006	0	%100
91	SF3-V1	Z	-.006	-.006	0	%100
92	SF3-V2	Z	-.006	-.006	0	%100
93	SF2-D1	Z	-.004	-.004	0	%100
94	SF2-D4	Z	-.004	-.004	0	%100
95	SF3-D1	Z	-.004	-.004	0	%100
96	SF3-D4	Z	-.004	-.004	0	%100
97	MP-2	Z	-.009	-.009	0	%100
98	MP-1	Z	-.009	-.009	0	%100
99	MP-3	Z	-.009	-.009	0	%100
100	M39B	Z	-.008	-.008	0	%100
101	TS-1	Z	-.005	-.005	0	%100
102	TS-2	Z	-.005	-.005	0	%100
103	SF6-TH	Z	-.006	-.006	0	%100
104	SF-7 TH	Z	-.001	-.001	0	%100
105	FFTH-7	Z	-.004	-.004	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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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,%]
106	FFBH-7	Z	-.004	-.004	0	%100
107	FFTH-8	Z	-.004	-.004	0	%100
108	FFBH-8	Z	-.004	-.004	0	%100
109	FFTH-9	Z	-.004	-.004	0	%100
110	FFBH-9	Z	-.004	-.004	0	%100
111	SF6-BH	Z	-.006	-.006	0	%100
112	SF-7 BH	Z	-.001	-.001	0	%100
113	SF-6 V2	Z	-.006	-.006	0	%100
114	SF-6 V1	Z	-.006	-.006	0	%100
115	SF-7 V1	Z	-.006	-.006	0	%100
116	SF-7 V2	Z	-.006	-.006	0	%100
117	SF-6 D1	Z	-.006	-.006	0	%100
118	SF-6 D4	Z	-.006	-.006	0	%100
119	SF-7 D1	Z	-.003	-.003	0	%100
120	SF-7 D4	Z	-.003	-.003	0	%100
121	M78	Z	-.008	-.008	0	%100
122	TS-5	Z	-.005	-.005	0	%100
123	TS-6	Z	-.005	-.005	0	%100
124	SF-4 TH	Z	-.004	-.004	0	%100
125	SF-5 TH	Z	-.005	-.005	0	%100
126	FFTH-4	Z	-.007	-.007	0	%100
127	FFBH-4	Z	-.007	-.007	0	%100
128	FFTH-5	Z	-.008	-.008	0	%100
129	FFBH-5	Z	-.008	-.008	0	%100
130	FFTH-6	Z	-.007	-.007	0	%100
131	FFBH-6	Z	-.007	-.007	0	%100
132	SF4-BH	Z	-.004	-.004	0	%100
133	SF5-BH	Z	-.005	-.005	0	%100
134	SF-4 V2	Z	-.006	-.006	0	%100
135	SF-4 V1	Z	-.006	-.006	0	%100
136	SF-5 V1	Z	-.006	-.006	0	%100
137	SF-5 V2	Z	-.006	-.006	0	%100
138	SF-4 D1	Z	-.003	-.003	0	%100
139	SF-4 D4	Z	-.003	-.003	0	%100
140	SF-5 D1	Z	-.006	-.006	0	%100
141	SF-5 D4	Z	-.006	-.006	0	%100
142	M118	Z	-.008	-.008	0	%100
143	TS-3	Z	-.01	-.01	0	%100
144	TS-4	Z	-.01	-.01	0	%100
145	SA-1	Z	-.000906	-.000906	0	%100
146	SA-3	Z	-.008	-.008	0	%100
147	SA-2	Z	-.006	-.006	0	%100
148	MP-10	Z	-.009	-.009	0	%100
149	MP-12	Z	-.009	-.009	0	%100
150	MP-11	Z	-.009	-.009	0	%100
151	MP-8	Z	-.009	-.009	0	%100
152	MP-7	Z	-.009	-.009	0	%100
153	MP-9	Z	-.009	-.009	0	%100
154	MP-5	Z	-.009	-.009	0	%100
155	MP-4	Z	-.009	-.009	0	%100
156	MP-6	Z	-.009	-.009	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	SF2-TH	X	0	0	0	%100
2	SF3-TH	X	.005	.005	0	%100

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,%]
3	FFTH-1	X	.004	.004	0	%100
4	FFBH-1	X	.004	.004	0	%100
5	FFTH-2	X	.005	.005	0	%100
6	FFBH-2	X	.005	.005	0	%100
7	FFTH-3	X	.004	.004	0	%100
8	FFBH-3	X	.004	.004	0	%100
9	SF2-BH	X	0	0	0	%100
10	SF3-BH	X	.005	.005	0	%100
11	SF2-V2	X	.003	.003	0	%100
12	SF2-V1	X	.003	.003	0	%100
13	SF3-V1	X	.003	.003	0	%100
14	SF3-V2	X	.003	.003	0	%100
15	SF2-D1	X	.002	.002	0	%100
16	SF2-D4	X	.002	.002	0	%100
17	SF3-D1	X	.002	.002	0	%100
18	SF3-D4	X	.002	.002	0	%100
19	MP-2	X	.007	.007	0	%100
20	MP-1	X	.007	.007	0	%100
21	MP-3	X	.007	.007	0	%100
22	M39B	X	.007	.007	0	%100
23	TS-1	X	.006	.006	0	%100
24	TS-2	X	.006	.006	0	%100
25	SF6-TH	X	.004	.004	0	%100
26	SF-7 TH	X	.003	.003	0	%100
27	FFTH-7	X	.001	.001	0	%100
28	FFBH-7	X	.001	.001	0	%100
29	FFTH-8	X	.001	.001	0	%100
30	FFBH-8	X	.001	.001	0	%100
31	FFTH-9	X	.001	.001	0	%100
32	FFBH-9	X	.001	.001	0	%100
33	SF6-BH	X	.004	.004	0	%100
34	SF-7 BH	X	.003	.003	0	%100
35	SF-6 V2	X	.003	.003	0	%100
36	SF-6 V1	X	.003	.003	0	%100
37	SF-7 V1	X	.003	.003	0	%100
38	SF-7 V2	X	.003	.003	0	%100
39	SF-6 D1	X	.003	.003	0	%100
40	SF-6 D4	X	.003	.003	0	%100
41	SF-7 D1	X	.000912	.000912	0	%100
42	SF-7 D4	X	.000912	.000912	0	%100
43	M78	X	.007	.007	0	%100
44	TS-5	X	.002	.002	0	%100
45	TS-6	X	.002	.002	0	%100
46	SF-4 TH	X	.005	.005	0	%100
47	SF-5 TH	X	.002	.002	0	%100
48	FFTH-4	X	.004	.004	0	%100
49	FFBH-4	X	.004	.004	0	%100
50	FFTH-5	X	.005	.005	0	%100
51	FFBH-5	X	.005	.005	0	%100
52	FFTH-6	X	.004	.004	0	%100
53	FFBH-6	X	.004	.004	0	%100
54	SF4-BH	X	.005	.005	0	%100
55	SF5-BH	X	.002	.002	0	%100
56	SF-4 V2	X	.003	.003	0	%100
57	SF-4 V1	X	.003	.003	0	%100
58	SF-5 V1	X	.003	.003	0	%100
59	SF-5 V2	X	.003	.003	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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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,%]
60	SF-4 D1	X	.000912	.000912	0	%100
61	SF-4 D4	X	.000912	.000912	0	%100
62	SF-5 D1	X	.003	.003	0	%100
63	SF-5 D4	X	.003	.003	0	%100
64	M118	X	.007	.007	0	%100
65	TS-3	X	.006	.006	0	%100
66	TS-4	X	.006	.006	0	%100
67	SA-1	X	.001	.001	0	%100
68	SA-3	X	.003	.003	0	%100
69	SA-2	X	.007	.007	0	%100
70	MP-10	X	.007	.007	0	%100
71	MP-12	X	.007	.007	0	%100
72	MP-11	X	.007	.007	0	%100
73	MP-8	X	.007	.007	0	%100
74	MP-7	X	.007	.007	0	%100
75	MP-9	X	.007	.007	0	%100
76	MP-5	X	.007	.007	0	%100
77	MP-4	X	.007	.007	0	%100
78	MP-6	X	.007	.007	0	%100
79	SF2-TH	Z	0	0	0	%100
80	SF3-TH	Z	-.005	-.005	0	%100
81	FFTH-1	Z	-.004	-.004	0	%100
82	FFBH-1	Z	-.004	-.004	0	%100
83	FFTH-2	Z	-.005	-.005	0	%100
84	FFBH-2	Z	-.005	-.005	0	%100
85	FFTH-3	Z	-.004	-.004	0	%100
86	FFBH-3	Z	-.004	-.004	0	%100
87	SF2-BH	Z	0	0	0	%100
88	SF3-BH	Z	-.005	-.005	0	%100
89	SF2-V2	Z	-.004	-.004	0	%100
90	SF2-V1	Z	-.004	-.004	0	%100
91	SF3-V1	Z	-.004	-.004	0	%100
92	SF3-V2	Z	-.004	-.004	0	%100
93	SF2-D1	Z	-.002	-.002	0	%100
94	SF2-D4	Z	-.002	-.002	0	%100
95	SF3-D1	Z	-.002	-.002	0	%100
96	SF3-D4	Z	-.002	-.002	0	%100
97	MP-2	Z	-.007	-.007	0	%100
98	MP-1	Z	-.007	-.007	0	%100
99	MP-3	Z	-.007	-.007	0	%100
100	M39B	Z	-.007	-.007	0	%100
101	TS-1	Z	-.006	-.006	0	%100
102	TS-2	Z	-.006	-.006	0	%100
103	SF6-TH	Z	-.005	-.005	0	%100
104	SF-7 TH	Z	-.002	-.002	0	%100
105	FFTH-7	Z	-.002	-.002	0	%100
106	FFBH-7	Z	-.002	-.002	0	%100
107	FFTH-8	Z	-.002	-.002	0	%100
108	FFBH-8	Z	-.002	-.002	0	%100
109	FFTH-9	Z	-.002	-.002	0	%100
110	FFBH-9	Z	-.002	-.002	0	%100
111	SF6-BH	Z	-.005	-.005	0	%100
112	SF-7 BH	Z	-.002	-.002	0	%100
113	SF-6 V2	Z	-.004	-.004	0	%100
114	SF-6 V1	Z	-.004	-.004	0	%100
115	SF-7 V1	Z	-.004	-.004	0	%100
116	SF-7 V2	Z	-.004	-.004	0	%100

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,%]
117	SF-6 D1	Z	-.004	-.004	0	%100
118	SF-6 D4	Z	-.004	-.004	0	%100
119	SF-7 D1	Z	-.001	-.001	0	%100
120	SF-7 D4	Z	-.001	-.001	0	%100
121	M78	Z	-.007	-.007	0	%100
122	TS-5	Z	-.002	-.002	0	%100
123	TS-6	Z	-.002	-.002	0	%100
124	SF-4 TH	Z	-.004	-.004	0	%100
125	SF-5 TH	Z	-.003	-.003	0	%100
126	FFTH-4	Z	-.006	-.006	0	%100
127	FFBH-4	Z	-.006	-.006	0	%100
128	FFTH-5	Z	-.007	-.007	0	%100
129	FFBH-5	Z	-.007	-.007	0	%100
130	FFTH-6	Z	-.006	-.006	0	%100
131	FFBH-6	Z	-.006	-.006	0	%100
132	SF4-BH	Z	-.004	-.004	0	%100
133	SF5-BH	Z	-.003	-.003	0	%100
134	SF-4 V2	Z	-.004	-.004	0	%100
135	SF-4 V1	Z	-.004	-.004	0	%100
136	SF-5 V1	Z	-.004	-.004	0	%100
137	SF-5 V2	Z	-.004	-.004	0	%100
138	SF-4 D1	Z	-.001	-.001	0	%100
139	SF-4 D4	Z	-.001	-.001	0	%100
140	SF-5 D1	Z	-.004	-.004	0	%100
141	SF-5 D4	Z	-.004	-.004	0	%100
142	M118	Z	-.007	-.007	0	%100
143	TS-3	Z	-.008	-.008	0	%100
144	TS-4	Z	-.008	-.008	0	%100
145	SA-1	Z	-.000969	-.000969	0	%100
146	SA-3	Z	-.006	-.006	0	%100
147	SA-2	Z	-.005	-.005	0	%100
148	MP-10	Z	-.007	-.007	0	%100
149	MP-12	Z	-.007	-.007	0	%100
150	MP-11	Z	-.007	-.007	0	%100
151	MP-8	Z	-.007	-.007	0	%100
152	MP-7	Z	-.007	-.007	0	%100
153	MP-9	Z	-.007	-.007	0	%100
154	MP-5	Z	-.007	-.007	0	%100
155	MP-4	Z	-.007	-.007	0	%100
156	MP-6	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	SF2-TH	X	.002	.002	0	%100
2	SF3-TH	X	.006	.006	0	%100
3	FFTH-1	X	.007	.007	0	%100
4	FFBH-1	X	.007	.007	0	%100
5	FFTH-2	X	.008	.008	0	%100
6	FFBH-2	X	.008	.008	0	%100
7	FFTH-3	X	.007	.007	0	%100
8	FFBH-3	X	.007	.007	0	%100
9	SF2-BH	X	.002	.002	0	%100
10	SF3-BH	X	.006	.006	0	%100
11	SF2-V2	X	.003	.003	0	%100
12	SF2-V1	X	.003	.003	0	%100
13	SF3-V1	X	.003	.003	0	%100

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,%]
14	SF3-V2	X	.003	.003	0	%100
15	SF2-D1	X	.000538	.000538	0	%100
16	SF2-D4	X	.000538	.000538	0	%100
17	SF3-D1	X	.000538	.000538	0	%100
18	SF3-D4	X	.000538	.000538	0	%100
19	MP-2	X	.009	.009	0	%100
20	MP-1	X	.009	.009	0	%100
21	MP-3	X	.009	.009	0	%100
22	M39B	X	.008	.008	0	%100
23	TS-1	X	.009	.009	0	%100
24	TS-2	X	.009	.009	0	%100
25	SF6-TH	X	.004	.004	0	%100
26	SF-7 TH	X	.005	.005	0	%100
27	FFTH-7	X	0	0	0	%100
28	FFBH-7	X	0	0	0	%100
29	FFTH-8	X	0	0	0	%100
30	FFBH-8	X	0	0	0	%100
31	FFTH-9	X	0	0	0	%100
32	FFBH-9	X	0	0	0	%100
33	SF6-BH	X	.004	.004	0	%100
34	SF-7 BH	X	.005	.005	0	%100
35	SF-6 V2	X	.003	.003	0	%100
36	SF-6 V1	X	.003	.003	0	%100
37	SF-7 V1	X	.003	.003	0	%100
38	SF-7 V2	X	.003	.003	0	%100
39	SF-6 D1	X	.002	.002	0	%100
40	SF-6 D4	X	.002	.002	0	%100
41	SF-7 D1	X	.000634	.000634	0	%100
42	SF-7 D4	X	.000634	.000634	0	%100
43	M78	X	.008	.008	0	%100
44	TS-5	X	0	0	0	%100
45	TS-6	X	0	0	0	%100
46	SF-4 TH	X	.006	.006	0	%100
47	SF-5 TH	X	.001	.001	0	%100
48	FFTH-4	X	.005	.005	0	%100
49	FFBH-4	X	.005	.005	0	%100
50	FFTH-5	X	.005	.005	0	%100
51	FFBH-5	X	.005	.005	0	%100
52	FFTH-6	X	.005	.005	0	%100
53	FFBH-6	X	.005	.005	0	%100
54	SF4-BH	X	.006	.006	0	%100
55	SF5-BH	X	.001	.001	0	%100
56	SF-4 V2	X	.003	.003	0	%100
57	SF-4 V1	X	.003	.003	0	%100
58	SF-5 V1	X	.003	.003	0	%100
59	SF-5 V2	X	.003	.003	0	%100
60	SF-4 D1	X	.000634	.000634	0	%100
61	SF-4 D4	X	.000634	.000634	0	%100
62	SF-5 D1	X	.002	.002	0	%100
63	SF-5 D4	X	.002	.002	0	%100
64	M118	X	.008	.008	0	%100
65	TS-3	X	.006	.006	0	%100
66	TS-4	X	.006	.006	0	%100
67	SA-1	X	.004	.004	0	%100
68	SA-3	X	.003	.003	0	%100
69	SA-2	X	.009	.009	0	%100
70	MP-10	X	.009	.009	0	%100

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,%]
71	MP-12	X	.009	.009	0	%100
72	MP-11	X	.009	.009	0	%100
73	MP-8	X	.009	.009	0	%100
74	MP-7	X	.009	.009	0	%100
75	MP-9	X	.009	.009	0	%100
76	MP-5	X	.009	.009	0	%100
77	MP-4	X	.009	.009	0	%100
78	MP-6	X	.009	.009	0	%100
79	SF2-TH	Z	-.000924	-.000924	0	%100
80	SF3-TH	Z	-.003	-.003	0	%100
81	FFTH-1	Z	-.004	-.004	0	%100
82	FFBH-1	Z	-.004	-.004	0	%100
83	FFTH-2	Z	-.004	-.004	0	%100
84	FFBH-2	Z	-.004	-.004	0	%100
85	FFTH-3	Z	-.004	-.004	0	%100
86	FFBH-3	Z	-.004	-.004	0	%100
87	SF2-BH	Z	-.000924	-.000924	0	%100
88	SF3-BH	Z	-.003	-.003	0	%100
89	SF2-V2	Z	-.002	-.002	0	%100
90	SF2-V1	Z	-.002	-.002	0	%100
91	SF3-V1	Z	-.002	-.002	0	%100
92	SF3-V2	Z	-.002	-.002	0	%100
93	SF2-D1	Z	-.000394	-.000394	0	%100
94	SF2-D4	Z	-.000394	-.000394	0	%100
95	SF3-D1	Z	-.000394	-.000394	0	%100
96	SF3-D4	Z	-.000394	-.000394	0	%100
97	MP-2	Z	-.005	-.005	0	%100
98	MP-1	Z	-.005	-.005	0	%100
99	MP-3	Z	-.005	-.005	0	%100
100	M39B	Z	-.005	-.005	0	%100
101	TS-1	Z	-.005	-.005	0	%100
102	TS-2	Z	-.005	-.005	0	%100
103	SF6-TH	Z	-.003	-.003	0	%100
104	SF-7 TH	Z	-.002	-.002	0	%100
105	FFTH-7	Z	0	0	0	%100
106	FFBH-7	Z	0	0	0	%100
107	FFTH-8	Z	0	0	0	%100
108	FFBH-8	Z	0	0	0	%100
109	FFTH-9	Z	0	0	0	%100
110	FFBH-9	Z	0	0	0	%100
111	SF6-BH	Z	-.003	-.003	0	%100
112	SF-7 BH	Z	-.002	-.002	0	%100
113	SF-6 V2	Z	-.002	-.002	0	%100
114	SF-6 V1	Z	-.002	-.002	0	%100
115	SF-7 V1	Z	-.002	-.002	0	%100
116	SF-7 V2	Z	-.002	-.002	0	%100
117	SF-6 D1	Z	-.002	-.002	0	%100
118	SF-6 D4	Z	-.002	-.002	0	%100
119	SF-7 D1	Z	-.00041	-.00041	0	%100
120	SF-7 D4	Z	-.00041	-.00041	0	%100
121	M78	Z	-.005	-.005	0	%100
122	TS-5	Z	0	0	0	%100
123	TS-6	Z	0	0	0	%100
124	SF-4 TH	Z	-.003	-.003	0	%100
125	SF-5 TH	Z	-.001	-.001	0	%100
126	FFTH-4	Z	-.004	-.004	0	%100
127	FFBH-4	Z	-.004	-.004	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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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,%]
128	FFTH-5	Z	-.004	-.004	0	%100
129	FFBH-5	Z	-.004	-.004	0	%100
130	FFTH-6	Z	-.004	-.004	0	%100
131	FFBH-6	Z	-.004	-.004	0	%100
132	SF4-BH	Z	-.003	-.003	0	%100
133	SF5-BH	Z	-.001	-.001	0	%100
134	SF-4 V2	Z	-.002	-.002	0	%100
135	SF-4 V1	Z	-.002	-.002	0	%100
136	SF-5 V1	Z	-.002	-.002	0	%100
137	SF-5 V2	Z	-.002	-.002	0	%100
138	SF-4 D1	Z	-.00041	-.00041	0	%100
139	SF-4 D4	Z	-.00041	-.00041	0	%100
140	SF-5 D1	Z	-.002	-.002	0	%100
141	SF-5 D4	Z	-.002	-.002	0	%100
142	M118	Z	-.005	-.005	0	%100
143	TS-3	Z	-.005	-.005	0	%100
144	TS-4	Z	-.005	-.005	0	%100
145	SA-1	Z	-.002	-.002	0	%100
146	SA-3	Z	-.003	-.003	0	%100
147	SA-2	Z	-.004	-.004	0	%100
148	MP-10	Z	-.005	-.005	0	%100
149	MP-12	Z	-.005	-.005	0	%100
150	MP-11	Z	-.005	-.005	0	%100
151	MP-8	Z	-.005	-.005	0	%100
152	MP-7	Z	-.005	-.005	0	%100
153	MP-9	Z	-.005	-.005	0	%100
154	MP-5	Z	-.005	-.005	0	%100
155	MP-4	Z	-.005	-.005	0	%100
156	MP-6	Z	-.005	-.005	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	SF2-TH	X	.005	.005	0	%100
2	SF3-TH	X	.005	.005	0	%100
3	FFTH-1	X	.009	.009	0	%100
4	FFBH-1	X	.009	.009	0	%100
5	FFTH-2	X	.01	.01	0	%100
6	FFBH-2	X	.01	.01	0	%100
7	FFTH-3	X	.009	.009	0	%100
8	FFBH-3	X	.009	.009	0	%100
9	SF2-BH	X	.005	.005	0	%100
10	SF3-BH	X	.005	.005	0	%100
11	SF2-V2	X	0	0	0	%100
12	SF2-V1	X	0	0	0	%100
13	SF3-V1	X	0	0	0	%100
14	SF3-V2	X	0	0	0	%100
15	SF2-D1	X	.003	.003	0	%100
16	SF2-D4	X	.003	.003	0	%100
17	SF3-D1	X	.003	.003	0	%100
18	SF3-D4	X	.003	.003	0	%100
19	MP-2	X	.01	.01	0	%100
20	MP-1	X	.01	.01	0	%100
21	MP-3	X	.01	.01	0	%100
22	M39B	X	.009	.009	0	%100
23	TS-1	X	.012	.012	0	%100
24	TS-2	X	.012	.012	0	%100

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,%]
25	SF6-TH	X	.002	.002	0	%100
26	SF-7 TH	X	.007	.007	0	%100
27	FFTH-7	X	.003	.003	0	%100
28	FFBH-7	X	.003	.003	0	%100
29	FFTH-8	X	.004	.004	0	%100
30	FFBH-8	X	.004	.004	0	%100
31	FFTH-9	X	.003	.003	0	%100
32	FFBH-9	X	.003	.003	0	%100
33	SF6-BH	X	.002	.002	0	%100
34	SF-7 BH	X	.007	.007	0	%100
35	SF-6 V2	X	0	0	0	%100
36	SF-6 V1	X	0	0	0	%100
37	SF-7 V1	X	0	0	0	%100
38	SF-7 V2	X	0	0	0	%100
39	SF-6 D1	X	.000943	.000943	0	%100
40	SF-6 D4	X	.000943	.000943	0	%100
41	SF-7 D1	X	.004	.004	0	%100
42	SF-7 D4	X	.004	.004	0	%100
43	M78	X	.009	.009	0	%100
44	TS-5	X	.004	.004	0	%100
45	TS-6	X	.004	.004	0	%100
46	SF-4 TH	X	.007	.007	0	%100
47	SF-5 TH	X	.002	.002	0	%100
48	FFTH-4	X	.003	.003	0	%100
49	FFBH-4	X	.003	.003	0	%100
50	FFTH-5	X	.004	.004	0	%100
51	FFBH-5	X	.004	.004	0	%100
52	FFTH-6	X	.003	.003	0	%100
53	FFBH-6	X	.003	.003	0	%100
54	SF4-BH	X	.007	.007	0	%100
55	SF5-BH	X	.002	.002	0	%100
56	SF-4 V2	X	0	0	0	%100
57	SF-4 V1	X	0	0	0	%100
58	SF-5 V1	X	0	0	0	%100
59	SF-5 V2	X	0	0	0	%100
60	SF-4 D1	X	.004	.004	0	%100
61	SF-4 D4	X	.004	.004	0	%100
62	SF-5 D1	X	.000943	.000943	0	%100
63	SF-5 D4	X	.000943	.000943	0	%100
64	M118	X	.009	.009	0	%100
65	TS-3	X	.004	.004	0	%100
66	TS-4	X	.004	.004	0	%100
67	SA-1	X	.008	.008	0	%100
68	SA-3	X	.000698	.000698	0	%100
69	SA-2	X	.009	.009	0	%100
70	MP-10	X	.01	.01	0	%100
71	MP-12	X	.01	.01	0	%100
72	MP-11	X	.01	.01	0	%100
73	MP-8	X	.01	.01	0	%100
74	MP-7	X	.01	.01	0	%100
75	MP-9	X	.01	.01	0	%100
76	MP-5	X	.01	.01	0	%100
77	MP-4	X	.01	.01	0	%100
78	MP-6	X	.01	.01	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,%]

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	SF2-TH	X	.006	.006	0	%100
2	SF3-TH	X	.002	.002	0	%100
3	FFTH-1	X	.007	.007	0	%100
4	FFBH-1	X	.007	.007	0	%100
5	FFTH-2	X	.008	.008	0	%100
6	FFBH-2	X	.008	.008	0	%100
7	FFTH-3	X	.007	.007	0	%100
8	FFBH-3	X	.007	.007	0	%100
9	SF2-BH	X	.006	.006	0	%100
10	SF3-BH	X	.002	.002	0	%100
11	SF2-V2	X	.003	.003	0	%100
12	SF2-V1	X	.003	.003	0	%100
13	SF3-V1	X	.003	.003	0	%100
14	SF3-V2	X	.003	.003	0	%100
15	SF2-D1	X	.005	.005	0	%100
16	SF2-D4	X	.005	.005	0	%100
17	SF3-D1	X	.005	.005	0	%100
18	SF3-D4	X	.005	.005	0	%100
19	MP-2	X	.009	.009	0	%100
20	MP-1	X	.009	.009	0	%100
21	MP-3	X	.009	.009	0	%100
22	M39B	X	.008	.008	0	%100
23	TS-1	X	.009	.009	0	%100
24	TS-2	X	.009	.009	0	%100
25	SF6-TH	X	.001	.001	0	%100
26	SF-7 TH	X	.006	.006	0	%100
27	FFTH-7	X	.005	.005	0	%100
28	FFBH-7	X	.005	.005	0	%100
29	FFTH-8	X	.005	.005	0	%100
30	FFBH-8	X	.005	.005	0	%100
31	FFTH-9	X	.005	.005	0	%100
32	FFBH-9	X	.005	.005	0	%100
33	SF6-BH	X	.001	.001	0	%100
34	SF-7 BH	X	.006	.006	0	%100
35	SF-6 V2	X	.003	.003	0	%100
36	SF-6 V1	X	.003	.003	0	%100
37	SF-7 V1	X	.003	.003	0	%100
38	SF-7 V2	X	.003	.003	0	%100
39	SF-6 D1	X	.003	.003	0	%100
40	SF-6 D4	X	.003	.003	0	%100
41	SF-7 D1	X	.006	.006	0	%100
42	SF-7 D4	X	.006	.006	0	%100
43	M78	X	.008	.008	0	%100
44	TS-5	X	.006	.006	0	%100
45	TS-6	X	.006	.006	0	%100
46	SF-4 TH	X	.005	.005	0	%100
47	SF-5 TH	X	.004	.004	0	%100
48	FFTH-4	X	0	0	0	%100
49	FFBH-4	X	0	0	0	%100
50	FFTH-5	X	0	0	0	%100
51	FFBH-5	X	0	0	0	%100
52	FFTH-6	X	0	0	0	%100
53	FFBH-6	X	0	0	0	%100
54	SF4-BH	X	.005	.005	0	%100
55	SF5-BH	X	.004	.004	0	%100
56	SF-4 V2	X	.003	.003	0	%100
57	SF-4 V1	X	.003	.003	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,%]
58	SF-5 V1	X	.003	.003	0	%100
59	SF-5 V2	X	.003	.003	0	%100
60	SF-4 D1	X	.006	.006	0	%100
61	SF-4 D4	X	.006	.006	0	%100
62	SF-5 D1	X	.003	.003	0	%100
63	SF-5 D4	X	.003	.003	0	%100
64	M118	X	.008	.008	0	%100
65	TS-3	X	0	0	0	%100
66	TS-4	X	0	0	0	%100
67	SA-1	X	.009	.009	0	%100
68	SA-3	X	.002	.002	0	%100
69	SA-2	X	.005	.005	0	%100
70	MP-10	X	.009	.009	0	%100
71	MP-12	X	.009	.009	0	%100
72	MP-11	X	.009	.009	0	%100
73	MP-8	X	.009	.009	0	%100
74	MP-7	X	.009	.009	0	%100
75	MP-9	X	.009	.009	0	%100
76	MP-5	X	.009	.009	0	%100
77	MP-4	X	.009	.009	0	%100
78	MP-6	X	.009	.009	0	%100
79	SF2-TH	Z	.003	.003	0	%100
80	SF3-TH	Z	.000924	.000924	0	%100
81	FFTH-1	Z	.004	.004	0	%100
82	FFBH-1	Z	.004	.004	0	%100
83	FFTH-2	Z	.004	.004	0	%100
84	FFBH-2	Z	.004	.004	0	%100
85	FFTH-3	Z	.004	.004	0	%100
86	FFBH-3	Z	.004	.004	0	%100
87	SF2-BH	Z	.003	.003	0	%100
88	SF3-BH	Z	.000924	.000924	0	%100
89	SF2-V2	Z	.002	.002	0	%100
90	SF2-V1	Z	.002	.002	0	%100
91	SF3-V1	Z	.002	.002	0	%100
92	SF3-V2	Z	.002	.002	0	%100
93	SF2-D1	Z	.004	.004	0	%100
94	SF2-D4	Z	.004	.004	0	%100
95	SF3-D1	Z	.004	.004	0	%100
96	SF3-D4	Z	.004	.004	0	%100
97	MP-2	Z	.005	.005	0	%100
98	MP-1	Z	.005	.005	0	%100
99	MP-3	Z	.005	.005	0	%100
100	M39B	Z	.005	.005	0	%100
101	TS-1	Z	.005	.005	0	%100
102	TS-2	Z	.005	.005	0	%100
103	SF6-TH	Z	.001	.001	0	%100
104	SF-7 TH	Z	.003	.003	0	%100
105	FFTH-7	Z	.004	.004	0	%100
106	FFBH-7	Z	.004	.004	0	%100
107	FFTH-8	Z	.004	.004	0	%100
108	FFBH-8	Z	.004	.004	0	%100
109	FFTH-9	Z	.004	.004	0	%100
110	FFBH-9	Z	.004	.004	0	%100
111	SF6-BH	Z	.001	.001	0	%100
112	SF-7 BH	Z	.003	.003	0	%100
113	SF-6 V2	Z	.002	.002	0	%100
114	SF-6 V1	Z	.002	.002	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
115	SF-7 V1	Z	.002	.002	0	%100
116	SF-7 V2	Z	.002	.002	0	%100
117	SF-6 D1	Z	.003	.003	0	%100
118	SF-6 D4	Z	.003	.003	0	%100
119	SF-7 D1	Z	.004	.004	0	%100
120	SF-7 D4	Z	.004	.004	0	%100
121	M78	Z	.005	.005	0	%100
122	TS-5	Z	.005	.005	0	%100
123	TS-6	Z	.005	.005	0	%100
124	SF-4 TH	Z	.002	.002	0	%100
125	SF-5 TH	Z	.003	.003	0	%100
126	FFTH-4	Z	0	0	0	%100
127	FFBH-4	Z	0	0	0	%100
128	FFTH-5	Z	0	0	0	%100
129	FFBH-5	Z	0	0	0	%100
130	FFTH-6	Z	0	0	0	%100
131	FFBH-6	Z	0	0	0	%100
132	SF4-BH	Z	.002	.002	0	%100
133	SF5-BH	Z	.003	.003	0	%100
134	SF-4 V2	Z	.002	.002	0	%100
135	SF-4 V1	Z	.002	.002	0	%100
136	SF-5 V1	Z	.002	.002	0	%100
137	SF-5 V2	Z	.002	.002	0	%100
138	SF-4 D1	Z	.004	.004	0	%100
139	SF-4 D4	Z	.004	.004	0	%100
140	SF-5 D1	Z	.003	.003	0	%100
141	SF-5 D4	Z	.003	.003	0	%100
142	M118	Z	.005	.005	0	%100
143	TS-3	Z	0	0	0	%100
144	TS-4	Z	0	0	0	%100
145	SA-1	Z	.005	.005	0	%100
146	SA-3	Z	.002	.002	0	%100
147	SA-2	Z	.002	.002	0	%100
148	MP-10	Z	.005	.005	0	%100
149	MP-12	Z	.005	.005	0	%100
150	MP-11	Z	.005	.005	0	%100
151	MP-8	Z	.005	.005	0	%100
152	MP-7	Z	.005	.005	0	%100
153	MP-9	Z	.005	.005	0	%100
154	MP-5	Z	.005	.005	0	%100
155	MP-4	Z	.005	.005	0	%100
156	MP-6	Z	.005	.005	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	SF2-TH	X	.005	.005	0	%100
2	SF3-TH	X	0	0	0	%100
3	FFTH-1	X	.004	.004	0	%100
4	FFBH-1	X	.004	.004	0	%100
5	FFTH-2	X	.005	.005	0	%100
6	FFBH-2	X	.005	.005	0	%100
7	FFTH-3	X	.004	.004	0	%100
8	FFBH-3	X	.004	.004	0	%100
9	SF2-BH	X	.005	.005	0	%100
10	SF3-BH	X	0	0	0	%100
11	SF2-V2	X	.003	.003	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,%]
12	SF2-V1	X	.003	.003	0	%100
13	SF3-V1	X	.003	.003	0	%100
14	SF3-V2	X	.003	.003	0	%100
15	SF2-D1	X	.005	.005	0	%100
16	SF2-D4	X	.005	.005	0	%100
17	SF3-D1	X	.005	.005	0	%100
18	SF3-D4	X	.005	.005	0	%100
19	MP-2	X	.007	.007	0	%100
20	MP-1	X	.007	.007	0	%100
21	MP-3	X	.007	.007	0	%100
22	M39B	X	.007	.007	0	%100
23	TS-1	X	.006	.006	0	%100
24	TS-2	X	.006	.006	0	%100
25	SF6-TH	X	.002	.002	0	%100
26	SF-7 TH	X	.005	.005	0	%100
27	FFTH-7	X	.004	.004	0	%100
28	FFBH-7	X	.004	.004	0	%100
29	FFTH-8	X	.005	.005	0	%100
30	FFBH-8	X	.005	.005	0	%100
31	FFTH-9	X	.004	.004	0	%100
32	FFBH-9	X	.004	.004	0	%100
33	SF6-BH	X	.002	.002	0	%100
34	SF-7 BH	X	.005	.005	0	%100
35	SF-6 V2	X	.003	.003	0	%100
36	SF-6 V1	X	.003	.003	0	%100
37	SF-7 V1	X	.003	.003	0	%100
38	SF-7 V2	X	.003	.003	0	%100
39	SF-6 D1	X	.003	.003	0	%100
40	SF-6 D4	X	.003	.003	0	%100
41	SF-7 D1	X	.005	.005	0	%100
42	SF-7 D4	X	.005	.005	0	%100
43	M78	X	.007	.007	0	%100
44	TS-5	X	.006	.006	0	%100
45	TS-6	X	.006	.006	0	%100
46	SF-4 TH	X	.003	.003	0	%100
47	SF-5 TH	X	.004	.004	0	%100
48	FFTH-4	X	.001	.001	0	%100
49	FFBH-4	X	.001	.001	0	%100
50	FFTH-5	X	.001	.001	0	%100
51	FFBH-5	X	.001	.001	0	%100
52	FFTH-6	X	.001	.001	0	%100
53	FFBH-6	X	.001	.001	0	%100
54	SF4-BH	X	.003	.003	0	%100
55	SF5-BH	X	.004	.004	0	%100
56	SF-4 V2	X	.003	.003	0	%100
57	SF-4 V1	X	.003	.003	0	%100
58	SF-5 V1	X	.003	.003	0	%100
59	SF-5 V2	X	.003	.003	0	%100
60	SF-4 D1	X	.005	.005	0	%100
61	SF-4 D4	X	.005	.005	0	%100
62	SF-5 D1	X	.003	.003	0	%100
63	SF-5 D4	X	.003	.003	0	%100
64	M118	X	.007	.007	0	%100
65	TS-3	X	.002	.002	0	%100
66	TS-4	X	.002	.002	0	%100
67	SA-1	X	.007	.007	0	%100
68	SA-3	X	.003	.003	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
69	SA-2	X	.003	.003	0	%100
70	MP-10	X	.007	.007	0	%100
71	MP-12	X	.007	.007	0	%100
72	MP-11	X	.007	.007	0	%100
73	MP-8	X	.007	.007	0	%100
74	MP-7	X	.007	.007	0	%100
75	MP-9	X	.007	.007	0	%100
76	MP-5	X	.007	.007	0	%100
77	MP-4	X	.007	.007	0	%100
78	MP-6	X	.007	.007	0	%100
79	SF2-TH	Z	.005	.005	0	%100
80	SF3-TH	Z	0	0	0	%100
81	FFTH-1	Z	.004	.004	0	%100
82	FFBH-1	Z	.004	.004	0	%100
83	FFTH-2	Z	.005	.005	0	%100
84	FFBH-2	Z	.005	.005	0	%100
85	FFTH-3	Z	.004	.004	0	%100
86	FFBH-3	Z	.004	.004	0	%100
87	SF2-BH	Z	.005	.005	0	%100
88	SF3-BH	Z	0	0	0	%100
89	SF2-V2	Z	.004	.004	0	%100
90	SF2-V1	Z	.004	.004	0	%100
91	SF3-V1	Z	.004	.004	0	%100
92	SF3-V2	Z	.004	.004	0	%100
93	SF2-D1	Z	.006	.006	0	%100
94	SF2-D4	Z	.006	.006	0	%100
95	SF3-D1	Z	.006	.006	0	%100
96	SF3-D4	Z	.006	.006	0	%100
97	MP-2	Z	.007	.007	0	%100
98	MP-1	Z	.007	.007	0	%100
99	MP-3	Z	.007	.007	0	%100
100	M39B	Z	.007	.007	0	%100
101	TS-1	Z	.006	.006	0	%100
102	TS-2	Z	.006	.006	0	%100
103	SF6-TH	Z	.003	.003	0	%100
104	SF-7 TH	Z	.004	.004	0	%100
105	FFTH-7	Z	.006	.006	0	%100
106	FFBH-7	Z	.006	.006	0	%100
107	FFTH-8	Z	.007	.007	0	%100
108	FFBH-8	Z	.007	.007	0	%100
109	FFTH-9	Z	.006	.006	0	%100
110	FFBH-9	Z	.006	.006	0	%100
111	SF6-BH	Z	.003	.003	0	%100
112	SF-7 BH	Z	.004	.004	0	%100
113	SF-6 V2	Z	.004	.004	0	%100
114	SF-6 V1	Z	.004	.004	0	%100
115	SF-7 V1	Z	.004	.004	0	%100
116	SF-7 V2	Z	.004	.004	0	%100
117	SF-6 D1	Z	.005	.005	0	%100
118	SF-6 D4	Z	.005	.005	0	%100
119	SF-7 D1	Z	.006	.006	0	%100
120	SF-7 D4	Z	.006	.006	0	%100
121	M78	Z	.007	.007	0	%100
122	TS-5	Z	.008	.008	0	%100
123	TS-6	Z	.008	.008	0	%100
124	SF-4 TH	Z	.002	.002	0	%100
125	SF-5 TH	Z	.005	.005	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,%]
126	FFTH-4	Z	.002	.002	0	%100
127	FFBH-4	Z	.002	.002	0	%100
128	FFTH-5	Z	.002	.002	0	%100
129	FFBH-5	Z	.002	.002	0	%100
130	FFTH-6	Z	.002	.002	0	%100
131	FFBH-6	Z	.002	.002	0	%100
132	SF4-BH	Z	.002	.002	0	%100
133	SF5-BH	Z	.005	.005	0	%100
134	SF-4 V2	Z	.004	.004	0	%100
135	SF-4 V1	Z	.004	.004	0	%100
136	SF-5 V1	Z	.004	.004	0	%100
137	SF-5 V2	Z	.004	.004	0	%100
138	SF-4 D1	Z	.006	.006	0	%100
139	SF-4 D4	Z	.006	.006	0	%100
140	SF-5 D1	Z	.005	.005	0	%100
141	SF-5 D4	Z	.005	.005	0	%100
142	M118	Z	.007	.007	0	%100
143	TS-3	Z	.002	.002	0	%100
144	TS-4	Z	.002	.002	0	%100
145	SA-1	Z	.006	.006	0	%100
146	SA-3	Z	.004	.004	0	%100
147	SA-2	Z	.002	.002	0	%100
148	MP-10	Z	.007	.007	0	%100
149	MP-12	Z	.007	.007	0	%100
150	MP-11	Z	.007	.007	0	%100
151	MP-8	Z	.007	.007	0	%100
152	MP-7	Z	.007	.007	0	%100
153	MP-9	Z	.007	.007	0	%100
154	MP-5	Z	.007	.007	0	%100
155	MP-4	Z	.007	.007	0	%100
156	MP-6	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	SF2-TH	X	.003	.003	0	%100
2	SF3-TH	X	.000924	.000924	0	%100
3	FFTH-1	X	.002	.002	0	%100
4	FFBH-1	X	.002	.002	0	%100
5	FFTH-2	X	.003	.003	0	%100
6	FFBH-2	X	.003	.003	0	%100
7	FFTH-3	X	.002	.002	0	%100
8	FFBH-3	X	.002	.002	0	%100
9	SF2-BH	X	.003	.003	0	%100
10	SF3-BH	X	.000924	.000924	0	%100
11	SF2-V2	X	.003	.003	0	%100
12	SF2-V1	X	.003	.003	0	%100
13	SF3-V1	X	.003	.003	0	%100
14	SF3-V2	X	.003	.003	0	%100
15	SF2-D1	X	.004	.004	0	%100
16	SF2-D4	X	.004	.004	0	%100
17	SF3-D1	X	.004	.004	0	%100
18	SF3-D4	X	.004	.004	0	%100
19	MP-2	X	.005	.005	0	%100
20	MP-1	X	.005	.005	0	%100
21	MP-3	X	.005	.005	0	%100
22	M39B	X	.005	.005	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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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,%]
23	TS-1	X	.003	.003	0	%100
24	TS-2	X	.003	.003	0	%100
25	SF6-TH	X	.002	.002	0	%100
26	SF-7 TH	X	.003	.003	0	%100
27	FFTH-7	X	.003	.003	0	%100
28	FFBH-7	X	.003	.003	0	%100
29	FFTH-8	X	.004	.004	0	%100
30	FFBH-8	X	.004	.004	0	%100
31	FFTH-9	X	.003	.003	0	%100
32	FFBH-9	X	.003	.003	0	%100
33	SF6-BH	X	.002	.002	0	%100
34	SF-7 BH	X	.003	.003	0	%100
35	SF-6 V2	X	.003	.003	0	%100
36	SF-6 V1	X	.003	.003	0	%100
37	SF-7 V1	X	.003	.003	0	%100
38	SF-7 V2	X	.003	.003	0	%100
39	SF-6 D1	X	.003	.003	0	%100
40	SF-6 D4	X	.003	.003	0	%100
41	SF-7 D1	X	.004	.004	0	%100
42	SF-7 D4	X	.004	.004	0	%100
43	M78	X	.005	.005	0	%100
44	TS-5	X	.004	.004	0	%100
45	TS-6	X	.004	.004	0	%100
46	SF-4 TH	X	.001	.001	0	%100
47	SF-5 TH	X	.003	.003	0	%100
48	FFTH-4	X	.002	.002	0	%100
49	FFBH-4	X	.002	.002	0	%100
50	FFTH-5	X	.002	.002	0	%100
51	FFBH-5	X	.002	.002	0	%100
52	FFTH-6	X	.002	.002	0	%100
53	FFBH-6	X	.002	.002	0	%100
54	SF4-BH	X	.001	.001	0	%100
55	SF5-BH	X	.003	.003	0	%100
56	SF-4 V2	X	.003	.003	0	%100
57	SF-4 V1	X	.003	.003	0	%100
58	SF-5 V1	X	.003	.003	0	%100
59	SF-5 V2	X	.003	.003	0	%100
60	SF-4 D1	X	.004	.004	0	%100
61	SF-4 D4	X	.004	.004	0	%100
62	SF-5 D1	X	.003	.003	0	%100
63	SF-5 D4	X	.003	.003	0	%100
64	M118	X	.005	.005	0	%100
65	TS-3	X	.002	.002	0	%100
66	TS-4	X	.002	.002	0	%100
67	SA-1	X	.005	.005	0	%100
68	SA-3	X	.002	.002	0	%100
69	SA-2	X	.000574	.000574	0	%100
70	MP-10	X	.005	.005	0	%100
71	MP-12	X	.005	.005	0	%100
72	MP-11	X	.005	.005	0	%100
73	MP-8	X	.005	.005	0	%100
74	MP-7	X	.005	.005	0	%100
75	MP-9	X	.005	.005	0	%100
76	MP-5	X	.005	.005	0	%100
77	MP-4	X	.005	.005	0	%100
78	MP-6	X	.005	.005	0	%100
79	SF2-TH	Z	.006	.006	0	%100

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,%]
80	SF3-TH	Z	.002	.002	0	%100
81	FFTH-1	Z	.004	.004	0	%100
82	FFBH-1	Z	.004	.004	0	%100
83	FFTH-2	Z	.004	.004	0	%100
84	FFBH-2	Z	.004	.004	0	%100
85	FFTH-3	Z	.004	.004	0	%100
86	FFBH-3	Z	.004	.004	0	%100
87	SF2-BH	Z	.006	.006	0	%100
88	SF3-BH	Z	.002	.002	0	%100
89	SF2-V2	Z	.006	.006	0	%100
90	SF2-V1	Z	.006	.006	0	%100
91	SF3-V1	Z	.006	.006	0	%100
92	SF3-V2	Z	.006	.006	0	%100
93	SF2-D1	Z	.008	.008	0	%100
94	SF2-D4	Z	.008	.008	0	%100
95	SF3-D1	Z	.008	.008	0	%100
96	SF3-D4	Z	.008	.008	0	%100
97	MP-2	Z	.009	.009	0	%100
98	MP-1	Z	.009	.009	0	%100
99	MP-3	Z	.009	.009	0	%100
100	M39B	Z	.008	.008	0	%100
101	TS-1	Z	.005	.005	0	%100
102	TS-2	Z	.005	.005	0	%100
103	SF6-TH	Z	.005	.005	0	%100
104	SF-7 TH	Z	.004	.004	0	%100
105	FFTH-7	Z	.007	.007	0	%100
106	FFBH-7	Z	.007	.007	0	%100
107	FFTH-8	Z	.008	.008	0	%100
108	FFBH-8	Z	.008	.008	0	%100
109	FFTH-9	Z	.007	.007	0	%100
110	FFBH-9	Z	.007	.007	0	%100
111	SF6-BH	Z	.005	.005	0	%100
112	SF-7 BH	Z	.004	.004	0	%100
113	SF-6 V2	Z	.006	.006	0	%100
114	SF-6 V1	Z	.006	.006	0	%100
115	SF-7 V1	Z	.006	.006	0	%100
116	SF-7 V2	Z	.006	.006	0	%100
117	SF-6 D1	Z	.008	.008	0	%100
118	SF-6 D4	Z	.008	.008	0	%100
119	SF-7 D1	Z	.007	.007	0	%100
120	SF-7 D4	Z	.007	.007	0	%100
121	M78	Z	.008	.008	0	%100
122	TS-5	Z	.01	.01	0	%100
123	TS-6	Z	.01	.01	0	%100
124	SF-4 TH	Z	.001	.001	0	%100
125	SF-5 TH	Z	.006	.006	0	%100
126	FFTH-4	Z	.004	.004	0	%100
127	FFBH-4	Z	.004	.004	0	%100
128	FFTH-5	Z	.004	.004	0	%100
129	FFBH-5	Z	.004	.004	0	%100
130	FFTH-6	Z	.004	.004	0	%100
131	FFBH-6	Z	.004	.004	0	%100
132	SF4-BH	Z	.001	.001	0	%100
133	SF5-BH	Z	.006	.006	0	%100
134	SF-4 V2	Z	.006	.006	0	%100
135	SF-4 V1	Z	.006	.006	0	%100
136	SF-5 V1	Z	.006	.006	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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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,%]
137	SF-5 V2	Z	.006	.006	0	%100
138	SF-4 D1	Z	.007	.007	0	%100
139	SF-4 D4	Z	.007	.007	0	%100
140	SF-5 D1	Z	.008	.008	0	%100
141	SF-5 D4	Z	.008	.008	0	%100
142	M118	Z	.008	.008	0	%100
143	TS-3	Z	.005	.005	0	%100
144	TS-4	Z	.005	.005	0	%100
145	SA-1	Z	.007	.007	0	%100
146	SA-3	Z	.007	.007	0	%100
147	SA-2	Z	.000783	.000783	0	%100
148	MP-10	Z	.009	.009	0	%100
149	MP-12	Z	.009	.009	0	%100
150	MP-11	Z	.009	.009	0	%100
151	MP-8	Z	.009	.009	0	%100
152	MP-7	Z	.009	.009	0	%100
153	MP-9	Z	.009	.009	0	%100
154	MP-5	Z	.009	.009	0	%100
155	MP-4	Z	.009	.009	0	%100
156	MP-6	Z	.009	.009	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	SF2-TH	Z	.005	.005	0	%100
2	SF3-TH	Z	.005	.005	0	%100
3	FFTH-1	Z	0	0	0	%100
4	FFBH-1	Z	0	0	0	%100
5	FFTH-2	Z	0	0	0	%100
6	FFBH-2	Z	0	0	0	%100
7	FFTH-3	Z	0	0	0	%100
8	FFBH-3	Z	0	0	0	%100
9	SF2-BH	Z	.005	.005	0	%100
10	SF3-BH	Z	.005	.005	0	%100
11	SF2-V2	Z	.009	.009	0	%100
12	SF2-V1	Z	.009	.009	0	%100
13	SF3-V1	Z	.009	.009	0	%100
14	SF3-V2	Z	.009	.009	0	%100
15	SF2-D1	Z	.008	.008	0	%100
16	SF2-D4	Z	.008	.008	0	%100
17	SF3-D1	Z	.008	.008	0	%100
18	SF3-D4	Z	.008	.008	0	%100
19	MP-2	Z	.01	.01	0	%100
20	MP-1	Z	.01	.01	0	%100
21	MP-3	Z	.01	.01	0	%100
22	M39B	Z	.009	.009	0	%100
23	TS-1	Z	0	0	0	%100
24	TS-2	Z	0	0	0	%100
25	SF6-TH	Z	.007	.007	0	%100
26	SF-7 TH	Z	.002	.002	0	%100
27	FFTH-7	Z	.007	.007	0	%100
28	FFBH-7	Z	.007	.007	0	%100
29	FFTH-8	Z	.008	.008	0	%100
30	FFBH-8	Z	.008	.008	0	%100
31	FFTH-9	Z	.007	.007	0	%100
32	FFBH-9	Z	.007	.007	0	%100
33	SF6-BH	Z	.007	.007	0	%100

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,%]
34	SF-7 BH	Z	.002	.002	0	%100
35	SF-6 V2	Z	.009	.009	0	%100
36	SF-6 V1	Z	.009	.009	0	%100
37	SF-7 V1	Z	.009	.009	0	%100
38	SF-7 V2	Z	.009	.009	0	%100
39	SF-6 D1	Z	.009	.009	0	%100
40	SF-6 D4	Z	.009	.009	0	%100
41	SF-7 D1	Z	.007	.007	0	%100
42	SF-7 D4	Z	.007	.007	0	%100
43	M78	Z	.009	.009	0	%100
44	TS-5	Z	.01	.01	0	%100
45	TS-6	Z	.01	.01	0	%100
46	SF-4 TH	Z	.002	.002	0	%100
47	SF-5 TH	Z	.007	.007	0	%100
48	FFTH-4	Z	.007	.007	0	%100
49	FFBH-4	Z	.007	.007	0	%100
50	FFTH-5	Z	.008	.008	0	%100
51	FFBH-5	Z	.008	.008	0	%100
52	FFTH-6	Z	.007	.007	0	%100
53	FFBH-6	Z	.007	.007	0	%100
54	SF4-BH	Z	.002	.002	0	%100
55	SF5-BH	Z	.007	.007	0	%100
56	SF-4 V2	Z	.009	.009	0	%100
57	SF-4 V1	Z	.009	.009	0	%100
58	SF-5 V1	Z	.009	.009	0	%100
59	SF-5 V2	Z	.009	.009	0	%100
60	SF-4 D1	Z	.007	.007	0	%100
61	SF-4 D4	Z	.007	.007	0	%100
62	SF-5 D1	Z	.009	.009	0	%100
63	SF-5 D4	Z	.009	.009	0	%100
64	M118	Z	.009	.009	0	%100
65	TS-3	Z	.01	.01	0	%100
66	TS-4	Z	.01	.01	0	%100
67	SA-1	Z	.006	.006	0	%100
68	SA-3	Z	.01	.01	0	%100
69	SA-2	Z	.003	.003	0	%100
70	MP-10	Z	.01	.01	0	%100
71	MP-12	Z	.01	.01	0	%100
72	MP-11	Z	.01	.01	0	%100
73	MP-8	Z	.01	.01	0	%100
74	MP-7	Z	.01	.01	0	%100
75	MP-9	Z	.01	.01	0	%100
76	MP-5	Z	.01	.01	0	%100
77	MP-4	Z	.01	.01	0	%100
78	MP-6	Z	.01	.01	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	SF2-TH	X	-.000924	-.000924	0	%100
2	SF3-TH	X	-.003	-.003	0	%100
3	FFTH-1	X	-.002	-.002	0	%100
4	FFBH-1	X	-.002	-.002	0	%100
5	FFTH-2	X	-.003	-.003	0	%100
6	FFBH-2	X	-.003	-.003	0	%100
7	FFTH-3	X	-.002	-.002	0	%100
8	FFBH-3	X	-.002	-.002	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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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,%]
9	SF2-BH	X	-.000924	-.000924	0	%100
10	SF3-BH	X	-.003	-.003	0	%100
11	SF2-V2	X	-.003	-.003	0	%100
12	SF2-V1	X	-.003	-.003	0	%100
13	SF3-V1	X	-.003	-.003	0	%100
14	SF3-V2	X	-.003	-.003	0	%100
15	SF2-D1	X	-.002	-.002	0	%100
16	SF2-D4	X	-.002	-.002	0	%100
17	SF3-D1	X	-.002	-.002	0	%100
18	SF3-D4	X	-.002	-.002	0	%100
19	MP-2	X	-.005	-.005	0	%100
20	MP-1	X	-.005	-.005	0	%100
21	MP-3	X	-.005	-.005	0	%100
22	M39B	X	-.005	-.005	0	%100
23	TS-1	X	-.003	-.003	0	%100
24	TS-2	X	-.003	-.003	0	%100
25	SF6-TH	X	-.003	-.003	0	%100
26	SF-7 TH	X	-.001	-.001	0	%100
27	FFTH-7	X	-.002	-.002	0	%100
28	FFBH-7	X	-.002	-.002	0	%100
29	FFTH-8	X	-.002	-.002	0	%100
30	FFBH-8	X	-.002	-.002	0	%100
31	FFTH-9	X	-.002	-.002	0	%100
32	FFBH-9	X	-.002	-.002	0	%100
33	SF6-BH	X	-.003	-.003	0	%100
34	SF-7 BH	X	-.001	-.001	0	%100
35	SF-6 V2	X	-.003	-.003	0	%100
36	SF-6 V1	X	-.003	-.003	0	%100
37	SF-7 V1	X	-.003	-.003	0	%100
38	SF-7 V2	X	-.003	-.003	0	%100
39	SF-6 D1	X	-.002	-.002	0	%100
40	SF-6 D4	X	-.002	-.002	0	%100
41	SF-7 D1	X	-.002	-.002	0	%100
42	SF-7 D4	X	-.002	-.002	0	%100
43	M78	X	-.005	-.005	0	%100
44	TS-5	X	-.002	-.002	0	%100
45	TS-6	X	-.002	-.002	0	%100
46	SF-4 TH	X	-.003	-.003	0	%100
47	SF-5 TH	X	-.002	-.002	0	%100
48	FFTH-4	X	-.003	-.003	0	%100
49	FFBH-4	X	-.003	-.003	0	%100
50	FFTH-5	X	-.004	-.004	0	%100
51	FFBH-5	X	-.004	-.004	0	%100
52	FFTH-6	X	-.003	-.003	0	%100
53	FFBH-6	X	-.003	-.003	0	%100
54	SF4-BH	X	-.003	-.003	0	%100
55	SF5-BH	X	-.002	-.002	0	%100
56	SF-4 V2	X	-.003	-.003	0	%100
57	SF-4 V1	X	-.003	-.003	0	%100
58	SF-5 V1	X	-.003	-.003	0	%100
59	SF-5 V2	X	-.003	-.003	0	%100
60	SF-4 D1	X	-.002	-.002	0	%100
61	SF-4 D4	X	-.002	-.002	0	%100
62	SF-5 D1	X	-.002	-.002	0	%100
63	SF-5 D4	X	-.002	-.002	0	%100
64	M118	X	-.005	-.005	0	%100
65	TS-3	X	-.004	-.004	0	%100

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,%]
66	TS-4	X	-.004	-.004	0	%100
67	SA-1	X	-.000574	-.000574	0	%100
68	SA-3	X	-.003	-.003	0	%100
69	SA-2	X	-.004	-.004	0	%100
70	MP-10	X	-.005	-.005	0	%100
71	MP-12	X	-.005	-.005	0	%100
72	MP-11	X	-.005	-.005	0	%100
73	MP-8	X	-.005	-.005	0	%100
74	MP-7	X	-.005	-.005	0	%100
75	MP-9	X	-.005	-.005	0	%100
76	MP-5	X	-.005	-.005	0	%100
77	MP-4	X	-.005	-.005	0	%100
78	MP-6	X	-.005	-.005	0	%100
79	SF2-TH	Z	.002	.002	0	%100
80	SF3-TH	Z	.006	.006	0	%100
81	FFTH-1	Z	.004	.004	0	%100
82	FFBH-1	Z	.004	.004	0	%100
83	FFTH-2	Z	.004	.004	0	%100
84	FFBH-2	Z	.004	.004	0	%100
85	FFTH-3	Z	.004	.004	0	%100
86	FFBH-3	Z	.004	.004	0	%100
87	SF2-BH	Z	.002	.002	0	%100
88	SF3-BH	Z	.006	.006	0	%100
89	SF2-V2	Z	.006	.006	0	%100
90	SF2-V1	Z	.006	.006	0	%100
91	SF3-V1	Z	.006	.006	0	%100
92	SF3-V2	Z	.006	.006	0	%100
93	SF2-D1	Z	.004	.004	0	%100
94	SF2-D4	Z	.004	.004	0	%100
95	SF3-D1	Z	.004	.004	0	%100
96	SF3-D4	Z	.004	.004	0	%100
97	MP-2	Z	.009	.009	0	%100
98	MP-1	Z	.009	.009	0	%100
99	MP-3	Z	.009	.009	0	%100
100	M39B	Z	.008	.008	0	%100
101	TS-1	Z	.005	.005	0	%100
102	TS-2	Z	.005	.005	0	%100
103	SF6-TH	Z	.006	.006	0	%100
104	SF-7 TH	Z	.001	.001	0	%100
105	FFTH-7	Z	.004	.004	0	%100
106	FFBH-7	Z	.004	.004	0	%100
107	FFTH-8	Z	.004	.004	0	%100
108	FFBH-8	Z	.004	.004	0	%100
109	FFTH-9	Z	.004	.004	0	%100
110	FFBH-9	Z	.004	.004	0	%100
111	SF6-BH	Z	.006	.006	0	%100
112	SF-7 BH	Z	.001	.001	0	%100
113	SF-6 V2	Z	.006	.006	0	%100
114	SF-6 V1	Z	.006	.006	0	%100
115	SF-7 V1	Z	.006	.006	0	%100
116	SF-7 V2	Z	.006	.006	0	%100
117	SF-6 D1	Z	.006	.006	0	%100
118	SF-6 D4	Z	.006	.006	0	%100
119	SF-7 D1	Z	.003	.003	0	%100
120	SF-7 D4	Z	.003	.003	0	%100
121	M78	Z	.008	.008	0	%100
122	TS-5	Z	.005	.005	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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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,%]
123	TS-6	Z	.005	.005	0	%100
124	SF-4 TH	Z	.004	.004	0	%100
125	SF-5 TH	Z	.005	.005	0	%100
126	FFTH-4	Z	.007	.007	0	%100
127	FFBH-4	Z	.007	.007	0	%100
128	FFTH-5	Z	.008	.008	0	%100
129	FFBH-5	Z	.008	.008	0	%100
130	FFTH-6	Z	.007	.007	0	%100
131	FFBH-6	Z	.007	.007	0	%100
132	SF4-BH	Z	.004	.004	0	%100
133	SF5-BH	Z	.005	.005	0	%100
134	SF-4 V2	Z	.006	.006	0	%100
135	SF-4 V1	Z	.006	.006	0	%100
136	SF-5 V1	Z	.006	.006	0	%100
137	SF-5 V2	Z	.006	.006	0	%100
138	SF-4 D1	Z	.003	.003	0	%100
139	SF-4 D4	Z	.003	.003	0	%100
140	SF-5 D1	Z	.006	.006	0	%100
141	SF-5 D4	Z	.006	.006	0	%100
142	M118	Z	.008	.008	0	%100
143	TS-3	Z	.01	.01	0	%100
144	TS-4	Z	.01	.01	0	%100
145	SA-1	Z	.000906	.000906	0	%100
146	SA-3	Z	.008	.008	0	%100
147	SA-2	Z	.006	.006	0	%100
148	MP-10	Z	.009	.009	0	%100
149	MP-12	Z	.009	.009	0	%100
150	MP-11	Z	.009	.009	0	%100
151	MP-8	Z	.009	.009	0	%100
152	MP-7	Z	.009	.009	0	%100
153	MP-9	Z	.009	.009	0	%100
154	MP-5	Z	.009	.009	0	%100
155	MP-4	Z	.009	.009	0	%100
156	MP-6	Z	.009	.009	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	SF2-TH	X	0	0	0	%100
2	SF3-TH	X	-.005	-.005	0	%100
3	FFTH-1	X	-.004	-.004	0	%100
4	FFBH-1	X	-.004	-.004	0	%100
5	FFTH-2	X	-.005	-.005	0	%100
6	FFBH-2	X	-.005	-.005	0	%100
7	FFTH-3	X	-.004	-.004	0	%100
8	FFBH-3	X	-.004	-.004	0	%100
9	SF2-BH	X	0	0	0	%100
10	SF3-BH	X	-.005	-.005	0	%100
11	SF2-V2	X	-.003	-.003	0	%100
12	SF2-V1	X	-.003	-.003	0	%100
13	SF3-V1	X	-.003	-.003	0	%100
14	SF3-V2	X	-.003	-.003	0	%100
15	SF2-D1	X	-.002	-.002	0	%100
16	SF2-D4	X	-.002	-.002	0	%100
17	SF3-D1	X	-.002	-.002	0	%100
18	SF3-D4	X	-.002	-.002	0	%100
19	MP-2	X	-.007	-.007	0	%100

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,%]
20	MP-1	X	-.007	-.007	0	%100
21	MP-3	X	-.007	-.007	0	%100
22	M39B	X	-.007	-.007	0	%100
23	TS-1	X	-.006	-.006	0	%100
24	TS-2	X	-.006	-.006	0	%100
25	SF6-TH	X	-.004	-.004	0	%100
26	SF-7 TH	X	-.003	-.003	0	%100
27	FFTH-7	X	-.001	-.001	0	%100
28	FFBH-7	X	-.001	-.001	0	%100
29	FFTH-8	X	-.001	-.001	0	%100
30	FFBH-8	X	-.001	-.001	0	%100
31	FFTH-9	X	-.001	-.001	0	%100
32	FFBH-9	X	-.001	-.001	0	%100
33	SF6-BH	X	-.004	-.004	0	%100
34	SF-7 BH	X	-.003	-.003	0	%100
35	SF-6 V2	X	-.003	-.003	0	%100
36	SF-6 V1	X	-.003	-.003	0	%100
37	SF-7 V1	X	-.003	-.003	0	%100
38	SF-7 V2	X	-.003	-.003	0	%100
39	SF-6 D1	X	-.003	-.003	0	%100
40	SF-6 D4	X	-.003	-.003	0	%100
41	SF-7 D1	X	-.000912	-.000912	0	%100
42	SF-7 D4	X	-.000912	-.000912	0	%100
43	M78	X	-.007	-.007	0	%100
44	TS-5	X	-.002	-.002	0	%100
45	TS-6	X	-.002	-.002	0	%100
46	SF-4 TH	X	-.005	-.005	0	%100
47	SF-5 TH	X	-.002	-.002	0	%100
48	FFTH-4	X	-.004	-.004	0	%100
49	FFBH-4	X	-.004	-.004	0	%100
50	FFTH-5	X	-.005	-.005	0	%100
51	FFBH-5	X	-.005	-.005	0	%100
52	FFTH-6	X	-.004	-.004	0	%100
53	FFBH-6	X	-.004	-.004	0	%100
54	SF4-BH	X	-.005	-.005	0	%100
55	SF5-BH	X	-.002	-.002	0	%100
56	SF-4 V2	X	-.003	-.003	0	%100
57	SF-4 V1	X	-.003	-.003	0	%100
58	SF-5 V1	X	-.003	-.003	0	%100
59	SF-5 V2	X	-.003	-.003	0	%100
60	SF-4 D1	X	-.000912	-.000912	0	%100
61	SF-4 D4	X	-.000912	-.000912	0	%100
62	SF-5 D1	X	-.003	-.003	0	%100
63	SF-5 D4	X	-.003	-.003	0	%100
64	M118	X	-.007	-.007	0	%100
65	TS-3	X	-.006	-.006	0	%100
66	TS-4	X	-.006	-.006	0	%100
67	SA-1	X	-.001	-.001	0	%100
68	SA-3	X	-.003	-.003	0	%100
69	SA-2	X	-.007	-.007	0	%100
70	MP-10	X	-.007	-.007	0	%100
71	MP-12	X	-.007	-.007	0	%100
72	MP-11	X	-.007	-.007	0	%100
73	MP-8	X	-.007	-.007	0	%100
74	MP-7	X	-.007	-.007	0	%100
75	MP-9	X	-.007	-.007	0	%100
76	MP-5	X	-.007	-.007	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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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,%]
77	MP-4	X	-.007	-.007	0	%100
78	MP-6	X	-.007	-.007	0	%100
79	SF2-TH	Z	0	0	0	%100
80	SF3-TH	Z	.005	.005	0	%100
81	FFTH-1	Z	.004	.004	0	%100
82	FFBH-1	Z	.004	.004	0	%100
83	FFTH-2	Z	.005	.005	0	%100
84	FFBH-2	Z	.005	.005	0	%100
85	FFTH-3	Z	.004	.004	0	%100
86	FFBH-3	Z	.004	.004	0	%100
87	SF2-BH	Z	0	0	0	%100
88	SF3-BH	Z	.005	.005	0	%100
89	SF2-V2	Z	.004	.004	0	%100
90	SF2-V1	Z	.004	.004	0	%100
91	SF3-V1	Z	.004	.004	0	%100
92	SF3-V2	Z	.004	.004	0	%100
93	SF2-D1	Z	.002	.002	0	%100
94	SF2-D4	Z	.002	.002	0	%100
95	SF3-D1	Z	.002	.002	0	%100
96	SF3-D4	Z	.002	.002	0	%100
97	MP-2	Z	.007	.007	0	%100
98	MP-1	Z	.007	.007	0	%100
99	MP-3	Z	.007	.007	0	%100
100	M39B	Z	.007	.007	0	%100
101	TS-1	Z	.006	.006	0	%100
102	TS-2	Z	.006	.006	0	%100
103	SF6-TH	Z	.005	.005	0	%100
104	SF-7 TH	Z	.002	.002	0	%100
105	FFTH-7	Z	.002	.002	0	%100
106	FFBH-7	Z	.002	.002	0	%100
107	FFTH-8	Z	.002	.002	0	%100
108	FFBH-8	Z	.002	.002	0	%100
109	FFTH-9	Z	.002	.002	0	%100
110	FFBH-9	Z	.002	.002	0	%100
111	SF6-BH	Z	.005	.005	0	%100
112	SF-7 BH	Z	.002	.002	0	%100
113	SF-6 V2	Z	.004	.004	0	%100
114	SF-6 V1	Z	.004	.004	0	%100
115	SF-7 V1	Z	.004	.004	0	%100
116	SF-7 V2	Z	.004	.004	0	%100
117	SF-6 D1	Z	.004	.004	0	%100
118	SF-6 D4	Z	.004	.004	0	%100
119	SF-7 D1	Z	.001	.001	0	%100
120	SF-7 D4	Z	.001	.001	0	%100
121	M78	Z	.007	.007	0	%100
122	TS-5	Z	.002	.002	0	%100
123	TS-6	Z	.002	.002	0	%100
124	SF-4 TH	Z	.004	.004	0	%100
125	SF-5 TH	Z	.003	.003	0	%100
126	FFTH-4	Z	.006	.006	0	%100
127	FFBH-4	Z	.006	.006	0	%100
128	FFTH-5	Z	.007	.007	0	%100
129	FFBH-5	Z	.007	.007	0	%100
130	FFTH-6	Z	.006	.006	0	%100
131	FFBH-6	Z	.006	.006	0	%100
132	SF4-BH	Z	.004	.004	0	%100
133	SF5-BH	Z	.003	.003	0	%100

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,%]
134	SF-4 V2	Z	.004	.004	0	%100
135	SF-4 V1	Z	.004	.004	0	%100
136	SF-5 V1	Z	.004	.004	0	%100
137	SF-5 V2	Z	.004	.004	0	%100
138	SF-4 D1	Z	.001	.001	0	%100
139	SF-4 D4	Z	.001	.001	0	%100
140	SF-5 D1	Z	.004	.004	0	%100
141	SF-5 D4	Z	.004	.004	0	%100
142	M118	Z	.007	.007	0	%100
143	TS-3	Z	.008	.008	0	%100
144	TS-4	Z	.008	.008	0	%100
145	SA-1	Z	.000969	.000969	0	%100
146	SA-3	Z	.006	.006	0	%100
147	SA-2	Z	.005	.005	0	%100
148	MP-10	Z	.007	.007	0	%100
149	MP-12	Z	.007	.007	0	%100
150	MP-11	Z	.007	.007	0	%100
151	MP-8	Z	.007	.007	0	%100
152	MP-7	Z	.007	.007	0	%100
153	MP-9	Z	.007	.007	0	%100
154	MP-5	Z	.007	.007	0	%100
155	MP-4	Z	.007	.007	0	%100
156	MP-6	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	SF2-TH	X	-.002	-.002	0	%100
2	SF3-TH	X	-.006	-.006	0	%100
3	FFTH-1	X	-.007	-.007	0	%100
4	FFBH-1	X	-.007	-.007	0	%100
5	FFTH-2	X	-.008	-.008	0	%100
6	FFBH-2	X	-.008	-.008	0	%100
7	FFTH-3	X	-.007	-.007	0	%100
8	FFBH-3	X	-.007	-.007	0	%100
9	SF2-BH	X	-.002	-.002	0	%100
10	SF3-BH	X	-.006	-.006	0	%100
11	SF2-V2	X	-.003	-.003	0	%100
12	SF2-V1	X	-.003	-.003	0	%100
13	SF3-V1	X	-.003	-.003	0	%100
14	SF3-V2	X	-.003	-.003	0	%100
15	SF2-D1	X	-.000538	-.000538	0	%100
16	SF2-D4	X	-.000538	-.000538	0	%100
17	SF3-D1	X	-.000538	-.000538	0	%100
18	SF3-D4	X	-.000538	-.000538	0	%100
19	MP-2	X	-.009	-.009	0	%100
20	MP-1	X	-.009	-.009	0	%100
21	MP-3	X	-.009	-.009	0	%100
22	M39B	X	-.008	-.008	0	%100
23	TS-1	X	-.009	-.009	0	%100
24	TS-2	X	-.009	-.009	0	%100
25	SF6-TH	X	-.004	-.004	0	%100
26	SF-7 TH	X	-.005	-.005	0	%100
27	FFTH-7	X	0	0	0	%100
28	FFBH-7	X	0	0	0	%100
29	FFTH-8	X	0	0	0	%100
30	FFBH-8	X	0	0	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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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,%]
31	FFTH-9	X	0	0	0	%100
32	FFBH-9	X	0	0	0	%100
33	SF6-BH	X	-.004	-.004	0	%100
34	SF-7 BH	X	-.005	-.005	0	%100
35	SF-6 V2	X	-.003	-.003	0	%100
36	SF-6 V1	X	-.003	-.003	0	%100
37	SF-7 V1	X	-.003	-.003	0	%100
38	SF-7 V2	X	-.003	-.003	0	%100
39	SF-6 D1	X	-.002	-.002	0	%100
40	SF-6 D4	X	-.002	-.002	0	%100
41	SF-7 D1	X	-.000634	-.000634	0	%100
42	SF-7 D4	X	-.000634	-.000634	0	%100
43	M78	X	-.008	-.008	0	%100
44	TS-5	X	0	0	0	%100
45	TS-6	X	0	0	0	%100
46	SF-4 TH	X	-.006	-.006	0	%100
47	SF-5 TH	X	-.001	-.001	0	%100
48	FFTH-4	X	-.005	-.005	0	%100
49	FFBH-4	X	-.005	-.005	0	%100
50	FFTH-5	X	-.005	-.005	0	%100
51	FFBH-5	X	-.005	-.005	0	%100
52	FFTH-6	X	-.005	-.005	0	%100
53	FFBH-6	X	-.005	-.005	0	%100
54	SF4-BH	X	-.006	-.006	0	%100
55	SF5-BH	X	-.001	-.001	0	%100
56	SF-4 V2	X	-.003	-.003	0	%100
57	SF-4 V1	X	-.003	-.003	0	%100
58	SF-5 V1	X	-.003	-.003	0	%100
59	SF-5 V2	X	-.003	-.003	0	%100
60	SF-4 D1	X	-.000634	-.000634	0	%100
61	SF-4 D4	X	-.000634	-.000634	0	%100
62	SF-5 D1	X	-.002	-.002	0	%100
63	SF-5 D4	X	-.002	-.002	0	%100
64	M118	X	-.008	-.008	0	%100
65	TS-3	X	-.006	-.006	0	%100
66	TS-4	X	-.006	-.006	0	%100
67	SA-1	X	-.004	-.004	0	%100
68	SA-3	X	-.003	-.003	0	%100
69	SA-2	X	-.009	-.009	0	%100
70	MP-10	X	-.009	-.009	0	%100
71	MP-12	X	-.009	-.009	0	%100
72	MP-11	X	-.009	-.009	0	%100
73	MP-8	X	-.009	-.009	0	%100
74	MP-7	X	-.009	-.009	0	%100
75	MP-9	X	-.009	-.009	0	%100
76	MP-5	X	-.009	-.009	0	%100
77	MP-4	X	-.009	-.009	0	%100
78	MP-6	X	-.009	-.009	0	%100
79	SF2-TH	Z	.000924	.000924	0	%100
80	SF3-TH	Z	.003	.003	0	%100
81	FFTH-1	Z	.004	.004	0	%100
82	FFBH-1	Z	.004	.004	0	%100
83	FFTH-2	Z	.004	.004	0	%100
84	FFBH-2	Z	.004	.004	0	%100
85	FFTH-3	Z	.004	.004	0	%100
86	FFBH-3	Z	.004	.004	0	%100
87	SF2-BH	Z	.000924	.000924	0	%100

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,%]
88	SF3-BH	Z	.003	.003	0	%100
89	SF2-V2	Z	.002	.002	0	%100
90	SF2-V1	Z	.002	.002	0	%100
91	SF3-V1	Z	.002	.002	0	%100
92	SF3-V2	Z	.002	.002	0	%100
93	SF2-D1	Z	.000394	.000394	0	%100
94	SF2-D4	Z	.000394	.000394	0	%100
95	SF3-D1	Z	.000394	.000394	0	%100
96	SF3-D4	Z	.000394	.000394	0	%100
97	MP-2	Z	.005	.005	0	%100
98	MP-1	Z	.005	.005	0	%100
99	MP-3	Z	.005	.005	0	%100
100	M39B	Z	.005	.005	0	%100
101	TS-1	Z	.005	.005	0	%100
102	TS-2	Z	.005	.005	0	%100
103	SF6-TH	Z	.003	.003	0	%100
104	SF-7 TH	Z	.002	.002	0	%100
105	FFTH-7	Z	0	0	0	%100
106	FFBH-7	Z	0	0	0	%100
107	FFTH-8	Z	0	0	0	%100
108	FFBH-8	Z	0	0	0	%100
109	FFTH-9	Z	0	0	0	%100
110	FFBH-9	Z	0	0	0	%100
111	SF6-BH	Z	.003	.003	0	%100
112	SF-7 BH	Z	.002	.002	0	%100
113	SF-6 V2	Z	.002	.002	0	%100
114	SF-6 V1	Z	.002	.002	0	%100
115	SF-7 V1	Z	.002	.002	0	%100
116	SF-7 V2	Z	.002	.002	0	%100
117	SF-6 D1	Z	.002	.002	0	%100
118	SF-6 D4	Z	.002	.002	0	%100
119	SF-7 D1	Z	.00041	.00041	0	%100
120	SF-7 D4	Z	.00041	.00041	0	%100
121	M78	Z	.005	.005	0	%100
122	TS-5	Z	0	0	0	%100
123	TS-6	Z	0	0	0	%100
124	SF-4 TH	Z	.003	.003	0	%100
125	SF-5 TH	Z	.001	.001	0	%100
126	FFTH-4	Z	.004	.004	0	%100
127	FFBH-4	Z	.004	.004	0	%100
128	FFTH-5	Z	.004	.004	0	%100
129	FFBH-5	Z	.004	.004	0	%100
130	FFTH-6	Z	.004	.004	0	%100
131	FFBH-6	Z	.004	.004	0	%100
132	SF4-BH	Z	.003	.003	0	%100
133	SF5-BH	Z	.001	.001	0	%100
134	SF-4 V2	Z	.002	.002	0	%100
135	SF-4 V1	Z	.002	.002	0	%100
136	SF-5 V1	Z	.002	.002	0	%100
137	SF-5 V2	Z	.002	.002	0	%100
138	SF-4 D1	Z	.00041	.00041	0	%100
139	SF-4 D4	Z	.00041	.00041	0	%100
140	SF-5 D1	Z	.002	.002	0	%100
141	SF-5 D4	Z	.002	.002	0	%100
142	M118	Z	.005	.005	0	%100
143	TS-3	Z	.005	.005	0	%100
144	TS-4	Z	.005	.005	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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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,%]
145	SA-1	Z	.002	.002	0	%100
146	SA-3	Z	.003	.003	0	%100
147	SA-2	Z	.004	.004	0	%100
148	MP-10	Z	.005	.005	0	%100
149	MP-12	Z	.005	.005	0	%100
150	MP-11	Z	.005	.005	0	%100
151	MP-8	Z	.005	.005	0	%100
152	MP-7	Z	.005	.005	0	%100
153	MP-9	Z	.005	.005	0	%100
154	MP-5	Z	.005	.005	0	%100
155	MP-4	Z	.005	.005	0	%100
156	MP-6	Z	.005	.005	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	SF2-TH	Y	-.005	-.005	0	%100
2	SF3-TH	Y	-.005	-.005	0	%100
3	FFTH-1	Y	-.006	-.006	0	%100
4	FFBH-1	Y	-.006	-.006	0	%100
5	FFTH-2	Y	-.006	-.006	0	%100
6	FFBH-2	Y	-.006	-.006	0	%100
7	FFTH-3	Y	-.006	-.006	0	%100
8	FFBH-3	Y	-.006	-.006	0	%100
9	SF2-BH	Y	-.005	-.005	0	%100
10	SF3-BH	Y	-.005	-.005	0	%100
11	SF2-V2	Y	-.005	-.005	0	%100
12	SF2-V1	Y	-.005	-.005	0	%100
13	SF3-V1	Y	-.005	-.005	0	%100
14	SF3-V2	Y	-.005	-.005	0	%100
15	SF2-D1	Y	-.005	-.005	0	%100
16	SF2-D4	Y	-.005	-.005	0	%100
17	SF3-D1	Y	-.005	-.005	0	%100
18	SF3-D4	Y	-.005	-.005	0	%100
19	MP-2	Y	-.005	-.005	0	%100
20	MP-1	Y	-.005	-.005	0	%100
21	MP-3	Y	-.005	-.005	0	%100
22	M39B	Y	-.008	-.008	0	%100
23	TS-1	Y	-.006	-.006	0	%100
24	TS-2	Y	-.006	-.006	0	%100
25	SF6-TH	Y	-.005	-.005	0	%100
26	SF-7 TH	Y	-.005	-.005	0	%100
27	FFTH-7	Y	-.006	-.006	0	%100
28	FFBH-7	Y	-.006	-.006	0	%100
29	FFTH-8	Y	-.006	-.006	0	%100
30	FFBH-8	Y	-.006	-.006	0	%100
31	FFTH-9	Y	-.006	-.006	0	%100
32	FFBH-9	Y	-.006	-.006	0	%100
33	SF6-BH	Y	-.005	-.005	0	%100
34	SF-7 BH	Y	-.005	-.005	0	%100
35	SF-6 V2	Y	-.005	-.005	0	%100
36	SF-6 V1	Y	-.005	-.005	0	%100
37	SF-7 V1	Y	-.005	-.005	0	%100
38	SF-7 V2	Y	-.005	-.005	0	%100
39	SF-6 D1	Y	-.005	-.005	0	%100
40	SF-6 D4	Y	-.005	-.005	0	%100
41	SF-7 D1	Y	-.005	-.005	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
42	SF-7 D4	Y	-.005	-.005	0	%100
43	M78	Y	-.008	-.008	0	%100
44	TS-5	Y	-.006	-.006	0	%100
45	TS-6	Y	-.006	-.006	0	%100
46	SF-4 TH	Y	-.005	-.005	0	%100
47	SF-5 TH	Y	-.005	-.005	0	%100
48	FFTH-4	Y	-.006	-.006	0	%100
49	FFBH-4	Y	-.006	-.006	0	%100
50	FFTH-5	Y	-.006	-.006	0	%100
51	FFBH-5	Y	-.006	-.006	0	%100
52	FFTH-6	Y	-.006	-.006	0	%100
53	FFBH-6	Y	-.006	-.006	0	%100
54	SF4-BH	Y	-.005	-.005	0	%100
55	SF5-BH	Y	-.005	-.005	0	%100
56	SF-4 V2	Y	-.005	-.005	0	%100
57	SF-4 V1	Y	-.005	-.005	0	%100
58	SF-5 V1	Y	-.005	-.005	0	%100
59	SF-5 V2	Y	-.005	-.005	0	%100
60	SF-4 D1	Y	-.005	-.005	0	%100
61	SF-4 D4	Y	-.005	-.005	0	%100
62	SF-5 D1	Y	-.005	-.005	0	%100
63	SF-5 D4	Y	-.005	-.005	0	%100
64	M118	Y	-.008	-.008	0	%100
65	TS-3	Y	-.006	-.006	0	%100
66	TS-4	Y	-.006	-.006	0	%100
67	SA-1	Y	-.005	-.005	0	%100
68	SA-3	Y	-.005	-.005	0	%100
69	SA-2	Y	-.005	-.005	0	%100
70	MP-10	Y	-.005	-.005	0	%100
71	MP-12	Y	-.005	-.005	0	%100
72	MP-11	Y	-.005	-.005	0	%100
73	MP-8	Y	-.005	-.005	0	%100
74	MP-7	Y	-.005	-.005	0	%100
75	MP-9	Y	-.005	-.005	0	%100
76	MP-5	Y	-.005	-.005	0	%100
77	MP-4	Y	-.005	-.005	0	%100
78	MP-6	Y	-.005	-.005	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	SF2-TH	X	-.002	-.002	0	%100
2	SF3-TH	X	-.002	-.002	0	%100
3	FFTH-1	X	-.003	-.003	0	%100
4	FFBH-1	X	-.003	-.003	0	%100
5	FFTH-2	X	-.003	-.003	0	%100
6	FFBH-2	X	-.003	-.003	0	%100
7	FFTH-3	X	-.003	-.003	0	%100
8	FFBH-3	X	-.003	-.003	0	%100
9	SF2-BH	X	-.002	-.002	0	%100
10	SF3-BH	X	-.002	-.002	0	%100
11	SF2-V2	X	-.002	-.002	0	%100
12	SF2-V1	X	-.002	-.002	0	%100
13	SF3-V1	X	-.002	-.002	0	%100
14	SF3-V2	X	-.002	-.002	0	%100
15	SF2-D1	X	-.002	-.002	0	%100
16	SF2-D4	X	-.002	-.002	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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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,%]
17	SF3-D1	X	-.002	-.002	0	%100
18	SF3-D4	X	-.002	-.002	0	%100
19	MP-2	X	-.003	-.003	0	%100
20	MP-1	X	-.003	-.003	0	%100
21	MP-3	X	-.003	-.003	0	%100
22	M39B	X	-.003	-.003	0	%100
23	TS-1	X	-.003	-.003	0	%100
24	TS-2	X	-.003	-.003	0	%100
25	SF6-TH	X	-.002	-.002	0	%100
26	SF-7 TH	X	-.002	-.002	0	%100
27	FFTH-7	X	-.003	-.003	0	%100
28	FFBH-7	X	-.003	-.003	0	%100
29	FFTH-8	X	-.003	-.003	0	%100
30	FFBH-8	X	-.003	-.003	0	%100
31	FFTH-9	X	-.003	-.003	0	%100
32	FFBH-9	X	-.003	-.003	0	%100
33	SF6-BH	X	-.002	-.002	0	%100
34	SF-7 BH	X	-.002	-.002	0	%100
35	SF-6 V2	X	-.002	-.002	0	%100
36	SF-6 V1	X	-.002	-.002	0	%100
37	SF-7 V1	X	-.002	-.002	0	%100
38	SF-7 V2	X	-.002	-.002	0	%100
39	SF-6 D1	X	-.002	-.002	0	%100
40	SF-6 D4	X	-.002	-.002	0	%100
41	SF-7 D1	X	-.002	-.002	0	%100
42	SF-7 D4	X	-.002	-.002	0	%100
43	M78	X	-.003	-.003	0	%100
44	TS-5	X	-.003	-.003	0	%100
45	TS-6	X	-.003	-.003	0	%100
46	SF-4 TH	X	-.002	-.002	0	%100
47	SF-5 TH	X	-.002	-.002	0	%100
48	FFTH-4	X	-.003	-.003	0	%100
49	FFBH-4	X	-.003	-.003	0	%100
50	FFTH-5	X	-.003	-.003	0	%100
51	FFBH-5	X	-.003	-.003	0	%100
52	FFTH-6	X	-.003	-.003	0	%100
53	FFBH-6	X	-.003	-.003	0	%100
54	SF4-BH	X	-.002	-.002	0	%100
55	SF5-BH	X	-.002	-.002	0	%100
56	SF-4 V2	X	-.002	-.002	0	%100
57	SF-4 V1	X	-.002	-.002	0	%100
58	SF-5 V1	X	-.002	-.002	0	%100
59	SF-5 V2	X	-.002	-.002	0	%100
60	SF-4 D1	X	-.002	-.002	0	%100
61	SF-4 D4	X	-.002	-.002	0	%100
62	SF-5 D1	X	-.002	-.002	0	%100
63	SF-5 D4	X	-.002	-.002	0	%100
64	M118	X	-.003	-.003	0	%100
65	TS-3	X	-.003	-.003	0	%100
66	TS-4	X	-.003	-.003	0	%100
67	SA-1	X	-.003	-.003	0	%100
68	SA-3	X	-.002	-.002	0	%100
69	SA-2	X	-.003	-.003	0	%100
70	MP-10	X	-.003	-.003	0	%100
71	MP-12	X	-.003	-.003	0	%100
72	MP-11	X	-.003	-.003	0	%100
73	MP-8	X	-.003	-.003	0	%100

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,%]
74	MP-7	X	-.003	-.003	0	%100
75	MP-9	X	-.003	-.003	0	%100
76	MP-5	X	-.003	-.003	0	%100
77	MP-4	X	-.003	-.003	0	%100
78	MP-6	X	-.003	-.003	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	SF2-TH	X	-.002	-.002	0	%100
2	SF3-TH	X	-.00053	-.00053	0	%100
3	FFTH-1	X	-.002	-.002	0	%100
4	FFBH-1	X	-.002	-.002	0	%100
5	FFTH-2	X	-.002	-.002	0	%100
6	FFBH-2	X	-.002	-.002	0	%100
7	FFTH-3	X	-.002	-.002	0	%100
8	FFBH-3	X	-.002	-.002	0	%100
9	SF2-BH	X	-.002	-.002	0	%100
10	SF3-BH	X	-.00053	-.00053	0	%100
11	SF2-V2	X	-.000931	-.000931	0	%100
12	SF2-V1	X	-.000931	-.000931	0	%100
13	SF3-V1	X	-.000931	-.000931	0	%100
14	SF3-V2	X	-.000931	-.000931	0	%100
15	SF2-D1	X	-.002	-.002	0	%100
16	SF2-D4	X	-.002	-.002	0	%100
17	SF3-D1	X	-.002	-.002	0	%100
18	SF3-D4	X	-.002	-.002	0	%100
19	MP-2	X	-.003	-.003	0	%100
20	MP-1	X	-.003	-.003	0	%100
21	MP-3	X	-.003	-.003	0	%100
22	M39B	X	-.003	-.003	0	%100
23	TS-1	X	-.003	-.003	0	%100
24	TS-2	X	-.003	-.003	0	%100
25	SF6-TH	X	-.00049	-.00049	0	%100
26	SF-7 TH	X	-.002	-.002	0	%100
27	FFTH-7	X	-.002	-.002	0	%100
28	FFBH-7	X	-.002	-.002	0	%100
29	FFTH-8	X	-.002	-.002	0	%100
30	FFBH-8	X	-.002	-.002	0	%100
31	FFTH-9	X	-.002	-.002	0	%100
32	FFBH-9	X	-.002	-.002	0	%100
33	SF6-BH	X	-.00049	-.00049	0	%100
34	SF-7 BH	X	-.002	-.002	0	%100
35	SF-6 V2	X	-.000931	-.000931	0	%100
36	SF-6 V1	X	-.000931	-.000931	0	%100
37	SF-7 V1	X	-.000931	-.000931	0	%100
38	SF-7 V2	X	-.000931	-.000931	0	%100
39	SF-6 D1	X	-.001	-.001	0	%100
40	SF-6 D4	X	-.001	-.001	0	%100
41	SF-7 D1	X	-.002	-.002	0	%100
42	SF-7 D4	X	-.002	-.002	0	%100
43	M78	X	-.003	-.003	0	%100
44	TS-5	X	-.002	-.002	0	%100
45	TS-6	X	-.002	-.002	0	%100
46	SF-4 TH	X	-.002	-.002	0	%100
47	SF-5 TH	X	-.001	-.001	0	%100
48	FFTH-4	X	0	0	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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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,%]
49	FFBH-4	X	0	0	0	%100
50	FFTH-5	X	0	0	0	%100
51	FFBH-5	X	0	0	0	%100
52	FFTH-6	X	0	0	0	%100
53	FFBH-6	X	0	0	0	%100
54	SF4-BH	X	-.002	-.002	0	%100
55	SF5-BH	X	-.001	-.001	0	%100
56	SF-4 V2	X	-.000931	-.000931	0	%100
57	SF-4 V1	X	-.000931	-.000931	0	%100
58	SF-5 V1	X	-.000931	-.000931	0	%100
59	SF-5 V2	X	-.000931	-.000931	0	%100
60	SF-4 D1	X	-.002	-.002	0	%100
61	SF-4 D4	X	-.002	-.002	0	%100
62	SF-5 D1	X	-.001	-.001	0	%100
63	SF-5 D4	X	-.001	-.001	0	%100
64	M118	X	-.003	-.003	0	%100
65	TS-3	X	0	0	0	%100
66	TS-4	X	0	0	0	%100
67	SA-1	X	-.002	-.002	0	%100
68	SA-3	X	-.000722	-.000722	0	%100
69	SA-2	X	-.002	-.002	0	%100
70	MP-10	X	-.002	-.002	0	%100
71	MP-12	X	-.002	-.002	0	%100
72	MP-11	X	-.002	-.002	0	%100
73	MP-8	X	-.003	-.003	0	%100
74	MP-7	X	-.003	-.003	0	%100
75	MP-9	X	-.003	-.003	0	%100
76	MP-5	X	-.003	-.003	0	%100
77	MP-4	X	-.003	-.003	0	%100
78	MP-6	X	-.003	-.003	0	%100
79	SF2-TH	Z	-.001	-.001	0	%100
80	SF3-TH	Z	-.000306	-.000306	0	%100
81	FFTH-1	Z	-.001	-.001	0	%100
82	FFBH-1	Z	-.001	-.001	0	%100
83	FFTH-2	Z	-.001	-.001	0	%100
84	FFBH-2	Z	-.001	-.001	0	%100
85	FFTH-3	Z	-.001	-.001	0	%100
86	FFBH-3	Z	-.001	-.001	0	%100
87	SF2-BH	Z	-.001	-.001	0	%100
88	SF3-BH	Z	-.000306	-.000306	0	%100
89	SF2-V2	Z	-.000649	-.000649	0	%100
90	SF2-V1	Z	-.000649	-.000649	0	%100
91	SF3-V1	Z	-.000649	-.000649	0	%100
92	SF3-V2	Z	-.000649	-.000649	0	%100
93	SF2-D1	Z	-.001	-.001	0	%100
94	SF2-D4	Z	-.001	-.001	0	%100
95	SF3-D1	Z	-.001	-.001	0	%100
96	SF3-D4	Z	-.001	-.001	0	%100
97	MP-2	Z	-.002	-.002	0	%100
98	MP-1	Z	-.002	-.002	0	%100
99	MP-3	Z	-.002	-.002	0	%100
100	M39B	Z	-.002	-.002	0	%100
101	TS-1	Z	-.001	-.001	0	%100
102	TS-2	Z	-.001	-.001	0	%100
103	SF6-TH	Z	-.000321	-.000321	0	%100
104	SF-7 TH	Z	-.001	-.001	0	%100
105	FFTH-7	Z	-.001	-.001	0	%100

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,%]
106	FFBH-7	Z	-.001	-.001	0	%100
107	FFTH-8	Z	-.001	-.001	0	%100
108	FFBH-8	Z	-.001	-.001	0	%100
109	FFTH-9	Z	-.001	-.001	0	%100
110	FFBH-9	Z	-.001	-.001	0	%100
111	SF6-BH	Z	-.000321	-.000321	0	%100
112	SF-7 BH	Z	-.001	-.001	0	%100
113	SF-6 V2	Z	-.000649	-.000649	0	%100
114	SF-6 V1	Z	-.000649	-.000649	0	%100
115	SF-7 V1	Z	-.000649	-.000649	0	%100
116	SF-7 V2	Z	-.000649	-.000649	0	%100
117	SF-6 D1	Z	-.000849	-.000849	0	%100
118	SF-6 D4	Z	-.000849	-.000849	0	%100
119	SF-7 D1	Z	-.001	-.001	0	%100
120	SF-7 D4	Z	-.001	-.001	0	%100
121	M78	Z	-.002	-.002	0	%100
122	TS-5	Z	-.001	-.001	0	%100
123	TS-6	Z	-.001	-.001	0	%100
124	SF-4 TH	Z	-.000774	-.000774	0	%100
125	SF-5 TH	Z	-.000876	-.000876	0	%100
126	FFTH-4	Z	0	0	0	%100
127	FFBH-4	Z	0	0	0	%100
128	FFTH-5	Z	0	0	0	%100
129	FFBH-5	Z	0	0	0	%100
130	FFTH-6	Z	0	0	0	%100
131	FFBH-6	Z	0	0	0	%100
132	SF4-BH	Z	-.000774	-.000774	0	%100
133	SF5-BH	Z	-.000876	-.000876	0	%100
134	SF-4 V2	Z	-.000649	-.000649	0	%100
135	SF-4 V1	Z	-.000649	-.000649	0	%100
136	SF-5 V1	Z	-.000649	-.000649	0	%100
137	SF-5 V2	Z	-.000649	-.000649	0	%100
138	SF-4 D1	Z	-.001	-.001	0	%100
139	SF-4 D4	Z	-.001	-.001	0	%100
140	SF-5 D1	Z	-.000849	-.000849	0	%100
141	SF-5 D4	Z	-.000849	-.000849	0	%100
142	M118	Z	-.002	-.002	0	%100
143	TS-3	Z	0	0	0	%100
144	TS-4	Z	0	0	0	%100
145	SA-1	Z	-.001	-.001	0	%100
146	SA-3	Z	-.000616	-.000616	0	%100
147	SA-2	Z	-.000717	-.000717	0	%100
148	MP-10	Z	-.001	-.001	0	%100
149	MP-12	Z	-.001	-.001	0	%100
150	MP-11	Z	-.001	-.001	0	%100
151	MP-8	Z	-.002	-.002	0	%100
152	MP-7	Z	-.002	-.002	0	%100
153	MP-9	Z	-.002	-.002	0	%100
154	MP-5	Z	-.002	-.002	0	%100
155	MP-4	Z	-.002	-.002	0	%100
156	MP-6	Z	-.002	-.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	SF2-TH	X	-.002	-.002	0	%100
2	SF3-TH	X	0	0	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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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,%]
3	FFTH-1	X	-.001	-.001	0	%100
4	FFBH-1	X	-.001	-.001	0	%100
5	FFTH-2	X	-.002	-.002	0	%100
6	FFBH-2	X	-.002	-.002	0	%100
7	FFTH-3	X	-.001	-.001	0	%100
8	FFBH-3	X	-.001	-.001	0	%100
9	SF2-BH	X	-.002	-.002	0	%100
10	SF3-BH	X	0	0	0	%100
11	SF2-V2	X	-.001	-.001	0	%100
12	SF2-V1	X	-.001	-.001	0	%100
13	SF3-V1	X	-.001	-.001	0	%100
14	SF3-V2	X	-.001	-.001	0	%100
15	SF2-D1	X	-.002	-.002	0	%100
16	SF2-D4	X	-.002	-.002	0	%100
17	SF3-D1	X	-.002	-.002	0	%100
18	SF3-D4	X	-.002	-.002	0	%100
19	MP-2	X	-.002	-.002	0	%100
20	MP-1	X	-.002	-.002	0	%100
21	MP-3	X	-.002	-.002	0	%100
22	M39B	X	-.002	-.002	0	%100
23	TS-1	X	-.002	-.002	0	%100
24	TS-2	X	-.002	-.002	0	%100
25	SF6-TH	X	-.000774	-.000774	0	%100
26	SF-7 TH	X	-.002	-.002	0	%100
27	FFTH-7	X	-.002	-.002	0	%100
28	FFBH-7	X	-.002	-.002	0	%100
29	FFTH-8	X	-.002	-.002	0	%100
30	FFBH-8	X	-.002	-.002	0	%100
31	FFTH-9	X	-.002	-.002	0	%100
32	FFBH-9	X	-.002	-.002	0	%100
33	SF6-BH	X	-.000774	-.000774	0	%100
34	SF-7 BH	X	-.002	-.002	0	%100
35	SF-6 V2	X	-.001	-.001	0	%100
36	SF-6 V1	X	-.001	-.001	0	%100
37	SF-7 V1	X	-.001	-.001	0	%100
38	SF-7 V2	X	-.001	-.001	0	%100
39	SF-6 D1	X	-.001	-.001	0	%100
40	SF-6 D4	X	-.001	-.001	0	%100
41	SF-7 D1	X	-.002	-.002	0	%100
42	SF-7 D4	X	-.002	-.002	0	%100
43	M78	X	-.002	-.002	0	%100
44	TS-5	X	-.002	-.002	0	%100
45	TS-6	X	-.002	-.002	0	%100
46	SF-4 TH	X	-.000876	-.000876	0	%100
47	SF-5 TH	X	-.001	-.001	0	%100
48	FFTH-4	X	-.000464	-.000464	0	%100
49	FFBH-4	X	-.000464	-.000464	0	%100
50	FFTH-5	X	-.000477	-.000477	0	%100
51	FFBH-5	X	-.000477	-.000477	0	%100
52	FFTH-6	X	-.000464	-.000464	0	%100
53	FFBH-6	X	-.000464	-.000464	0	%100
54	SF4-BH	X	-.000876	-.000876	0	%100
55	SF5-BH	X	-.001	-.001	0	%100
56	SF-4 V2	X	-.001	-.001	0	%100
57	SF-4 V1	X	-.001	-.001	0	%100
58	SF-5 V1	X	-.001	-.001	0	%100
59	SF-5 V2	X	-.001	-.001	0	%100

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,%]
60	SF-4 D1	X	-.002	-.002	0	%100
61	SF-4 D4	X	-.002	-.002	0	%100
62	SF-5 D1	X	-.001	-.001	0	%100
63	SF-5 D4	X	-.001	-.001	0	%100
64	M118	X	-.002	-.002	0	%100
65	TS-3	X	-.000504	-.000504	0	%100
66	TS-4	X	-.000504	-.000504	0	%100
67	SA-1	X	-.002	-.002	0	%100
68	SA-3	X	-.00092	-.00092	0	%100
69	SA-2	X	-.000778	-.000778	0	%100
70	MP-10	X	-.002	-.002	0	%100
71	MP-12	X	-.002	-.002	0	%100
72	MP-11	X	-.002	-.002	0	%100
73	MP-8	X	-.002	-.002	0	%100
74	MP-7	X	-.002	-.002	0	%100
75	MP-9	X	-.002	-.002	0	%100
76	MP-5	X	-.002	-.002	0	%100
77	MP-4	X	-.002	-.002	0	%100
78	MP-6	X	-.002	-.002	0	%100
79	SF2-TH	Z	-.002	-.002	0	%100
80	SF3-TH	Z	0	0	0	%100
81	FFTH-1	Z	-.001	-.001	0	%100
82	FFBH-1	Z	-.001	-.001	0	%100
83	FFTH-2	Z	-.001	-.001	0	%100
84	FFBH-2	Z	-.001	-.001	0	%100
85	FFTH-3	Z	-.001	-.001	0	%100
86	FFBH-3	Z	-.001	-.001	0	%100
87	SF2-BH	Z	-.002	-.002	0	%100
88	SF3-BH	Z	0	0	0	%100
89	SF2-V2	Z	-.001	-.001	0	%100
90	SF2-V1	Z	-.001	-.001	0	%100
91	SF3-V1	Z	-.001	-.001	0	%100
92	SF3-V2	Z	-.001	-.001	0	%100
93	SF2-D1	Z	-.002	-.002	0	%100
94	SF2-D4	Z	-.002	-.002	0	%100
95	SF3-D1	Z	-.002	-.002	0	%100
96	SF3-D4	Z	-.002	-.002	0	%100
97	MP-2	Z	-.003	-.003	0	%100
98	MP-1	Z	-.003	-.003	0	%100
99	MP-3	Z	-.003	-.003	0	%100
100	M39B	Z	-.003	-.003	0	%100
101	TS-1	Z	-.002	-.002	0	%100
102	TS-2	Z	-.002	-.002	0	%100
103	SF6-TH	Z	-.000876	-.000876	0	%100
104	SF-7 TH	Z	-.001	-.001	0	%100
105	FFTH-7	Z	-.002	-.002	0	%100
106	FFBH-7	Z	-.002	-.002	0	%100
107	FFTH-8	Z	-.002	-.002	0	%100
108	FFBH-8	Z	-.002	-.002	0	%100
109	FFTH-9	Z	-.002	-.002	0	%100
110	FFBH-9	Z	-.002	-.002	0	%100
111	SF6-BH	Z	-.000876	-.000876	0	%100
112	SF-7 BH	Z	-.001	-.001	0	%100
113	SF-6 V2	Z	-.001	-.001	0	%100
114	SF-6 V1	Z	-.001	-.001	0	%100
115	SF-7 V1	Z	-.001	-.001	0	%100
116	SF-7 V2	Z	-.001	-.001	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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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,%]
117	SF-6 D1	Z	-.002	-.002	0	%100
118	SF-6 D4	Z	-.002	-.002	0	%100
119	SF-7 D1	Z	-.002	-.002	0	%100
120	SF-7 D4	Z	-.002	-.002	0	%100
121	M78	Z	-.003	-.003	0	%100
122	TS-5	Z	-.002	-.002	0	%100
123	TS-6	Z	-.002	-.002	0	%100
124	SF-4 TH	Z	-.000774	-.000774	0	%100
125	SF-5 TH	Z	-.002	-.002	0	%100
126	FFTH-4	Z	-.000508	-.000508	0	%100
127	FFBH-4	Z	-.000508	-.000508	0	%100
128	FFTH-5	Z	-.000533	-.000533	0	%100
129	FFBH-5	Z	-.000533	-.000533	0	%100
130	FFTH-6	Z	-.000508	-.000508	0	%100
131	FFBH-6	Z	-.000508	-.000508	0	%100
132	SF4-BH	Z	-.000774	-.000774	0	%100
133	SF5-BH	Z	-.002	-.002	0	%100
134	SF-4 V2	Z	-.001	-.001	0	%100
135	SF-4 V1	Z	-.001	-.001	0	%100
136	SF-5 V1	Z	-.001	-.001	0	%100
137	SF-5 V2	Z	-.001	-.001	0	%100
138	SF-4 D1	Z	-.002	-.002	0	%100
139	SF-4 D4	Z	-.002	-.002	0	%100
140	SF-5 D1	Z	-.002	-.002	0	%100
141	SF-5 D4	Z	-.002	-.002	0	%100
142	M118	Z	-.003	-.003	0	%100
143	TS-3	Z	-.000583	-.000583	0	%100
144	TS-4	Z	-.000583	-.000583	0	%100
145	SA-1	Z	-.002	-.002	0	%100
146	SA-3	Z	-.001	-.001	0	%100
147	SA-2	Z	-.000625	-.000625	0	%100
148	MP-10	Z	-.002	-.002	0	%100
149	MP-12	Z	-.002	-.002	0	%100
150	MP-11	Z	-.002	-.002	0	%100
151	MP-8	Z	-.003	-.003	0	%100
152	MP-7	Z	-.003	-.003	0	%100
153	MP-9	Z	-.003	-.003	0	%100
154	MP-5	Z	-.003	-.003	0	%100
155	MP-4	Z	-.003	-.003	0	%100
156	MP-6	Z	-.003	-.003	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	SF2-TH	X	-.001	-.001	0	%100
2	SF3-TH	X	-.000306	-.000306	0	%100
3	FFTH-1	X	-.000716	-.000716	0	%100
4	FFBH-1	X	-.000716	-.000716	0	%100
5	FFTH-2	X	-.000757	-.000757	0	%100
6	FFBH-2	X	-.000757	-.000757	0	%100
7	FFTH-3	X	-.000716	-.000716	0	%100
8	FFBH-3	X	-.000716	-.000716	0	%100
9	SF2-BH	X	-.001	-.001	0	%100
10	SF3-BH	X	-.000306	-.000306	0	%100
11	SF2-V2	X	-.000931	-.000931	0	%100
12	SF2-V1	X	-.000931	-.000931	0	%100
13	SF3-V1	X	-.000931	-.000931	0	%100

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,%]
14	SF3-V2	X	-.000931	-.000931	0	%100
15	SF2-D1	X	-.001	-.001	0	%100
16	SF2-D4	X	-.001	-.001	0	%100
17	SF3-D1	X	-.001	-.001	0	%100
18	SF3-D4	X	-.001	-.001	0	%100
19	MP-2	X	-.002	-.002	0	%100
20	MP-1	X	-.002	-.002	0	%100
21	MP-3	X	-.002	-.002	0	%100
22	M39B	X	-.002	-.002	0	%100
23	TS-1	X	-.000837	-.000837	0	%100
24	TS-2	X	-.000837	-.000837	0	%100
25	SF6-TH	X	-.000774	-.000774	0	%100
26	SF-7 TH	X	-.000876	-.000876	0	%100
27	FFTH-7	X	-.001	-.001	0	%100
28	FFBH-7	X	-.001	-.001	0	%100
29	FFTH-8	X	-.001	-.001	0	%100
30	FFBH-8	X	-.001	-.001	0	%100
31	FFTH-9	X	-.001	-.001	0	%100
32	FFBH-9	X	-.001	-.001	0	%100
33	SF6-BH	X	-.000774	-.000774	0	%100
34	SF-7 BH	X	-.000876	-.000876	0	%100
35	SF-6 V2	X	-.000931	-.000931	0	%100
36	SF-6 V1	X	-.000931	-.000931	0	%100
37	SF-7 V1	X	-.000931	-.000931	0	%100
38	SF-7 V2	X	-.000931	-.000931	0	%100
39	SF-6 D1	X	-.000992	-.000992	0	%100
40	SF-6 D4	X	-.000992	-.000992	0	%100
41	SF-7 D1	X	-.001	-.001	0	%100
42	SF-7 D4	X	-.001	-.001	0	%100
43	M78	X	-.002	-.002	0	%100
44	TS-5	X	-.001	-.001	0	%100
45	TS-6	X	-.001	-.001	0	%100
46	SF-4 TH	X	-.000321	-.000321	0	%100
47	SF-5 TH	X	-.001	-.001	0	%100
48	FFTH-4	X	-.000634	-.000634	0	%100
49	FFBH-4	X	-.000634	-.000634	0	%100
50	FFTH-5	X	-.000651	-.000651	0	%100
51	FFBH-5	X	-.000651	-.000651	0	%100
52	FFTH-6	X	-.000634	-.000634	0	%100
53	FFBH-6	X	-.000634	-.000634	0	%100
54	SF4-BH	X	-.000321	-.000321	0	%100
55	SF5-BH	X	-.001	-.001	0	%100
56	SF-4 V2	X	-.000931	-.000931	0	%100
57	SF-4 V1	X	-.000931	-.000931	0	%100
58	SF-5 V1	X	-.000931	-.000931	0	%100
59	SF-5 V2	X	-.000931	-.000931	0	%100
60	SF-4 D1	X	-.001	-.001	0	%100
61	SF-4 D4	X	-.001	-.001	0	%100
62	SF-5 D1	X	-.000992	-.000992	0	%100
63	SF-5 D4	X	-.000992	-.000992	0	%100
64	M118	X	-.002	-.002	0	%100
65	TS-3	X	-.000688	-.000688	0	%100
66	TS-4	X	-.000688	-.000688	0	%100
67	SA-1	X	-.001	-.001	0	%100
68	SA-3	X	-.00084	-.00084	0	%100
69	SA-2	X	-.00017	-.00017	0	%100
70	MP-10	X	-.001	-.001	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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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,%]
71	MP-12	X	-.001	-.001	0	%100
72	MP-11	X	-.001	-.001	0	%100
73	MP-8	X	-.002	-.002	0	%100
74	MP-7	X	-.002	-.002	0	%100
75	MP-9	X	-.002	-.002	0	%100
76	MP-5	X	-.002	-.002	0	%100
77	MP-4	X	-.002	-.002	0	%100
78	MP-6	X	-.002	-.002	0	%100
79	SF2-TH	Z	-.002	-.002	0	%100
80	SF3-TH	Z	-.00053	-.00053	0	%100
81	FFTH-1	Z	-.001	-.001	0	%100
82	FFBH-1	Z	-.001	-.001	0	%100
83	FFTH-2	Z	-.001	-.001	0	%100
84	FFBH-2	Z	-.001	-.001	0	%100
85	FFTH-3	Z	-.001	-.001	0	%100
86	FFBH-3	Z	-.001	-.001	0	%100
87	SF2-BH	Z	-.002	-.002	0	%100
88	SF3-BH	Z	-.00053	-.00053	0	%100
89	SF2-V2	Z	-.002	-.002	0	%100
90	SF2-V1	Z	-.002	-.002	0	%100
91	SF3-V1	Z	-.002	-.002	0	%100
92	SF3-V2	Z	-.002	-.002	0	%100
93	SF2-D1	Z	-.002	-.002	0	%100
94	SF2-D4	Z	-.002	-.002	0	%100
95	SF3-D1	Z	-.002	-.002	0	%100
96	SF3-D4	Z	-.002	-.002	0	%100
97	MP-2	Z	-.003	-.003	0	%100
98	MP-1	Z	-.003	-.003	0	%100
99	MP-3	Z	-.003	-.003	0	%100
100	M39B	Z	-.003	-.003	0	%100
101	TS-1	Z	-.001	-.001	0	%100
102	TS-2	Z	-.001	-.001	0	%100
103	SF6-TH	Z	-.002	-.002	0	%100
104	SF-7 TH	Z	-.001	-.001	0	%100
105	FFTH-7	Z	-.002	-.002	0	%100
106	FFBH-7	Z	-.002	-.002	0	%100
107	FFTH-8	Z	-.003	-.003	0	%100
108	FFBH-8	Z	-.003	-.003	0	%100
109	FFTH-9	Z	-.002	-.002	0	%100
110	FFBH-9	Z	-.002	-.002	0	%100
111	SF6-BH	Z	-.002	-.002	0	%100
112	SF-7 BH	Z	-.001	-.001	0	%100
113	SF-6 V2	Z	-.002	-.002	0	%100
114	SF-6 V1	Z	-.002	-.002	0	%100
115	SF-7 V1	Z	-.002	-.002	0	%100
116	SF-7 V2	Z	-.002	-.002	0	%100
117	SF-6 D1	Z	-.002	-.002	0	%100
118	SF-6 D4	Z	-.002	-.002	0	%100
119	SF-7 D1	Z	-.002	-.002	0	%100
120	SF-7 D4	Z	-.002	-.002	0	%100
121	M78	Z	-.003	-.003	0	%100
122	TS-5	Z	-.003	-.003	0	%100
123	TS-6	Z	-.003	-.003	0	%100
124	SF-4 TH	Z	-.00049	-.00049	0	%100
125	SF-5 TH	Z	-.002	-.002	0	%100
126	FFTH-4	Z	-.001	-.001	0	%100
127	FFBH-4	Z	-.001	-.001	0	%100

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,%]
128	FFTH-5	Z	-.001	-.001	0	%100
129	FFBH-5	Z	-.001	-.001	0	%100
130	FFTH-6	Z	-.001	-.001	0	%100
131	FFBH-6	Z	-.001	-.001	0	%100
132	SF4-BH	Z	-.00049	-.00049	0	%100
133	SF5-BH	Z	-.002	-.002	0	%100
134	SF-4 V2	Z	-.002	-.002	0	%100
135	SF-4 V1	Z	-.002	-.002	0	%100
136	SF-5 V1	Z	-.002	-.002	0	%100
137	SF-5 V2	Z	-.002	-.002	0	%100
138	SF-4 D1	Z	-.002	-.002	0	%100
139	SF-4 D4	Z	-.002	-.002	0	%100
140	SF-5 D1	Z	-.002	-.002	0	%100
141	SF-5 D4	Z	-.002	-.002	0	%100
142	M118	Z	-.003	-.003	0	%100
143	TS-3	Z	-.001	-.001	0	%100
144	TS-4	Z	-.001	-.001	0	%100
145	SA-1	Z	-.002	-.002	0	%100
146	SA-3	Z	-.002	-.002	0	%100
147	SA-2	Z	-.000236	-.000236	0	%100
148	MP-10	Z	-.002	-.002	0	%100
149	MP-12	Z	-.002	-.002	0	%100
150	MP-11	Z	-.002	-.002	0	%100
151	MP-8	Z	-.003	-.003	0	%100
152	MP-7	Z	-.003	-.003	0	%100
153	MP-9	Z	-.003	-.003	0	%100
154	MP-5	Z	-.003	-.003	0	%100
155	MP-4	Z	-.003	-.003	0	%100
156	MP-6	Z	-.003	-.003	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	SF2-TH	Z	-.002	-.002	0	%100
2	SF3-TH	Z	-.002	-.002	0	%100
3	FFTH-1	Z	0	0	0	%100
4	FFBH-1	Z	0	0	0	%100
5	FFTH-2	Z	0	0	0	%100
6	FFBH-2	Z	0	0	0	%100
7	FFTH-3	Z	0	0	0	%100
8	FFBH-3	Z	0	0	0	%100
9	SF2-BH	Z	-.002	-.002	0	%100
10	SF3-BH	Z	-.002	-.002	0	%100
11	SF2-V2	Z	-.003	-.003	0	%100
12	SF2-V1	Z	-.003	-.003	0	%100
13	SF3-V1	Z	-.003	-.003	0	%100
14	SF3-V2	Z	-.003	-.003	0	%100
15	SF2-D1	Z	-.002	-.002	0	%100
16	SF2-D4	Z	-.002	-.002	0	%100
17	SF3-D1	Z	-.002	-.002	0	%100
18	SF3-D4	Z	-.002	-.002	0	%100
19	MP-2	Z	-.004	-.004	0	%100
20	MP-1	Z	-.004	-.004	0	%100
21	MP-3	Z	-.004	-.004	0	%100
22	M39B	Z	-.004	-.004	0	%100
23	TS-1	Z	0	0	0	%100
24	TS-2	Z	0	0	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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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,%]
25	SF6-TH	Z	-.002	-.002	0	%100
26	SF-7 TH	Z	-.000566	-.000566	0	%100
27	FFTH-7	Z	-.002	-.002	0	%100
28	FFBH-7	Z	-.002	-.002	0	%100
29	FFTH-8	Z	-.003	-.003	0	%100
30	FFBH-8	Z	-.003	-.003	0	%100
31	FFTH-9	Z	-.002	-.002	0	%100
32	FFBH-9	Z	-.002	-.002	0	%100
33	SF6-BH	Z	-.002	-.002	0	%100
34	SF-7 BH	Z	-.000566	-.000566	0	%100
35	SF-6 V2	Z	-.003	-.003	0	%100
36	SF-6 V1	Z	-.003	-.003	0	%100
37	SF-7 V1	Z	-.003	-.003	0	%100
38	SF-7 V2	Z	-.003	-.003	0	%100
39	SF-6 D1	Z	-.003	-.003	0	%100
40	SF-6 D4	Z	-.003	-.003	0	%100
41	SF-7 D1	Z	-.002	-.002	0	%100
42	SF-7 D4	Z	-.002	-.002	0	%100
43	M78	Z	-.004	-.004	0	%100
44	TS-5	Z	-.003	-.003	0	%100
45	TS-6	Z	-.003	-.003	0	%100
46	SF-4 TH	Z	-.000566	-.000566	0	%100
47	SF-5 TH	Z	-.002	-.002	0	%100
48	FFTH-4	Z	-.002	-.002	0	%100
49	FFBH-4	Z	-.002	-.002	0	%100
50	FFTH-5	Z	-.003	-.003	0	%100
51	FFBH-5	Z	-.003	-.003	0	%100
52	FFTH-6	Z	-.002	-.002	0	%100
53	FFBH-6	Z	-.002	-.002	0	%100
54	SF4-BH	Z	-.000566	-.000566	0	%100
55	SF5-BH	Z	-.002	-.002	0	%100
56	SF-4 V2	Z	-.003	-.003	0	%100
57	SF-4 V1	Z	-.003	-.003	0	%100
58	SF-5 V1	Z	-.003	-.003	0	%100
59	SF-5 V2	Z	-.003	-.003	0	%100
60	SF-4 D1	Z	-.002	-.002	0	%100
61	SF-4 D4	Z	-.002	-.002	0	%100
62	SF-5 D1	Z	-.003	-.003	0	%100
63	SF-5 D4	Z	-.003	-.003	0	%100
64	M118	Z	-.004	-.004	0	%100
65	TS-3	Z	-.003	-.003	0	%100
66	TS-4	Z	-.003	-.003	0	%100
67	SA-1	Z	-.002	-.002	0	%100
68	SA-3	Z	-.003	-.003	0	%100
69	SA-2	Z	-.000962	-.000962	0	%100
70	MP-10	Z	-.003	-.003	0	%100
71	MP-12	Z	-.003	-.003	0	%100
72	MP-11	Z	-.003	-.003	0	%100
73	MP-8	Z	-.004	-.004	0	%100
74	MP-7	Z	-.004	-.004	0	%100
75	MP-9	Z	-.004	-.004	0	%100
76	MP-5	Z	-.004	-.004	0	%100
77	MP-4	Z	-.004	-.004	0	%100
78	MP-6	Z	-.004	-.004	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,%]

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,%]
1	SF2-TH	X	.000306	.000306	0	%100
2	SF3-TH	X	.001	.001	0	%100
3	FFTH-1	X	.000716	.000716	0	%100
4	FFBH-1	X	.000716	.000716	0	%100
5	FFTH-2	X	.000757	.000757	0	%100
6	FFBH-2	X	.000757	.000757	0	%100
7	FFTH-3	X	.000716	.000716	0	%100
8	FFBH-3	X	.000716	.000716	0	%100
9	SF2-BH	X	.000306	.000306	0	%100
10	SF3-BH	X	.001	.001	0	%100
11	SF2-V2	X	.000931	.000931	0	%100
12	SF2-V1	X	.000931	.000931	0	%100
13	SF3-V1	X	.000931	.000931	0	%100
14	SF3-V2	X	.000931	.000931	0	%100
15	SF2-D1	X	.000658	.000658	0	%100
16	SF2-D4	X	.000658	.000658	0	%100
17	SF3-D1	X	.000658	.000658	0	%100
18	SF3-D4	X	.000658	.000658	0	%100
19	MP-2	X	.002	.002	0	%100
20	MP-1	X	.002	.002	0	%100
21	MP-3	X	.002	.002	0	%100
22	M39B	X	.002	.002	0	%100
23	TS-1	X	.000837	.000837	0	%100
24	TS-2	X	.000837	.000837	0	%100
25	SF6-TH	X	.001	.001	0	%100
26	SF-7 TH	X	.000321	.000321	0	%100
27	FFTH-7	X	.000634	.000634	0	%100
28	FFBH-7	X	.000634	.000634	0	%100
29	FFTH-8	X	.000651	.000651	0	%100
30	FFBH-8	X	.000651	.000651	0	%100
31	FFTH-9	X	.000634	.000634	0	%100
32	FFBH-9	X	.000634	.000634	0	%100
33	SF6-BH	X	.001	.001	0	%100
34	SF-7 BH	X	.000321	.000321	0	%100
35	SF-6 V2	X	.000931	.000931	0	%100
36	SF-6 V1	X	.000931	.000931	0	%100
37	SF-7 V1	X	.000931	.000931	0	%100
38	SF-7 V2	X	.000931	.000931	0	%100
39	SF-6 D1	X	.000827	.000827	0	%100
40	SF-6 D4	X	.000827	.000827	0	%100
41	SF-7 D1	X	.000501	.000501	0	%100
42	SF-7 D4	X	.000501	.000501	0	%100
43	M78	X	.002	.002	0	%100
44	TS-5	X	.000688	.000688	0	%100
45	TS-6	X	.000688	.000688	0	%100
46	SF-4 TH	X	.000876	.000876	0	%100
47	SF-5 TH	X	.000774	.000774	0	%100
48	FFTH-4	X	.001	.001	0	%100
49	FFBH-4	X	.001	.001	0	%100
50	FFTH-5	X	.001	.001	0	%100
51	FFBH-5	X	.001	.001	0	%100
52	FFTH-6	X	.001	.001	0	%100
53	FFBH-6	X	.001	.001	0	%100
54	SF4-BH	X	.000876	.000876	0	%100
55	SF5-BH	X	.000774	.000774	0	%100
56	SF-4 V2	X	.000931	.000931	0	%100
57	SF-4 V1	X	.000931	.000931	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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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,%]
58	SF-5 V1	X	.000931	.000931	0	%100
59	SF-5 V2	X	.000931	.000931	0	%100
60	SF-4 D1	X	.000501	.000501	0	%100
61	SF-4 D4	X	.000501	.000501	0	%100
62	SF-5 D1	X	.000827	.000827	0	%100
63	SF-5 D4	X	.000827	.000827	0	%100
64	M118	X	.002	.002	0	%100
65	TS-3	X	.001	.001	0	%100
66	TS-4	X	.001	.001	0	%100
67	SA-1	X	.000162	.000162	0	%100
68	SA-3	X	.000958	.000958	0	%100
69	SA-2	X	.001	.001	0	%100
70	MP-10	X	.001	.001	0	%100
71	MP-12	X	.001	.001	0	%100
72	MP-11	X	.001	.001	0	%100
73	MP-8	X	.002	.002	0	%100
74	MP-7	X	.002	.002	0	%100
75	MP-9	X	.002	.002	0	%100
76	MP-5	X	.002	.002	0	%100
77	MP-4	X	.002	.002	0	%100
78	MP-6	X	.002	.002	0	%100
79	SF2-TH	Z	-.00053	-.00053	0	%100
80	SF3-TH	Z	-.002	-.002	0	%100
81	FFTH-1	Z	-.001	-.001	0	%100
82	FFBH-1	Z	-.001	-.001	0	%100
83	FFTH-2	Z	-.001	-.001	0	%100
84	FFBH-2	Z	-.001	-.001	0	%100
85	FFTH-3	Z	-.001	-.001	0	%100
86	FFBH-3	Z	-.001	-.001	0	%100
87	SF2-BH	Z	-.00053	-.00053	0	%100
88	SF3-BH	Z	-.002	-.002	0	%100
89	SF2-V2	Z	-.002	-.002	0	%100
90	SF2-V1	Z	-.002	-.002	0	%100
91	SF3-V1	Z	-.002	-.002	0	%100
92	SF3-V2	Z	-.002	-.002	0	%100
93	SF2-D1	Z	-.001	-.001	0	%100
94	SF2-D4	Z	-.001	-.001	0	%100
95	SF3-D1	Z	-.001	-.001	0	%100
96	SF3-D4	Z	-.001	-.001	0	%100
97	MP-2	Z	-.003	-.003	0	%100
98	MP-1	Z	-.003	-.003	0	%100
99	MP-3	Z	-.003	-.003	0	%100
100	M39B	Z	-.003	-.003	0	%100
101	TS-1	Z	-.001	-.001	0	%100
102	TS-2	Z	-.001	-.001	0	%100
103	SF6-TH	Z	-.002	-.002	0	%100
104	SF-7 TH	Z	-.00049	-.00049	0	%100
105	FFTH-7	Z	-.001	-.001	0	%100
106	FFBH-7	Z	-.001	-.001	0	%100
107	FFTH-8	Z	-.001	-.001	0	%100
108	FFBH-8	Z	-.001	-.001	0	%100
109	FFTH-9	Z	-.001	-.001	0	%100
110	FFBH-9	Z	-.001	-.001	0	%100
111	SF6-BH	Z	-.002	-.002	0	%100
112	SF-7 BH	Z	-.00049	-.00049	0	%100
113	SF-6 V2	Z	-.002	-.002	0	%100
114	SF-6 V1	Z	-.002	-.002	0	%100

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,%]
115	SF-7 V1	Z	-.002	-.002	0	%100
116	SF-7 V2	Z	-.002	-.002	0	%100
117	SF-6 D1	Z	-.002	-.002	0	%100
118	SF-6 D4	Z	-.002	-.002	0	%100
119	SF-7 D1	Z	-.000928	-.000928	0	%100
120	SF-7 D4	Z	-.000928	-.000928	0	%100
121	M78	Z	-.003	-.003	0	%100
122	TS-5	Z	-.001	-.001	0	%100
123	TS-6	Z	-.001	-.001	0	%100
124	SF-4 TH	Z	-.001	-.001	0	%100
125	SF-5 TH	Z	-.002	-.002	0	%100
126	FFTH-4	Z	-.002	-.002	0	%100
127	FFBH-4	Z	-.002	-.002	0	%100
128	FFTH-5	Z	-.003	-.003	0	%100
129	FFBH-5	Z	-.003	-.003	0	%100
130	FFTH-6	Z	-.002	-.002	0	%100
131	FFBH-6	Z	-.002	-.002	0	%100
132	SF4-BH	Z	-.001	-.001	0	%100
133	SF5-BH	Z	-.002	-.002	0	%100
134	SF-4 V2	Z	-.002	-.002	0	%100
135	SF-4 V1	Z	-.002	-.002	0	%100
136	SF-5 V1	Z	-.002	-.002	0	%100
137	SF-5 V2	Z	-.002	-.002	0	%100
138	SF-4 D1	Z	-.000928	-.000928	0	%100
139	SF-4 D4	Z	-.000928	-.000928	0	%100
140	SF-5 D1	Z	-.002	-.002	0	%100
141	SF-5 D4	Z	-.002	-.002	0	%100
142	M118	Z	-.003	-.003	0	%100
143	TS-3	Z	-.003	-.003	0	%100
144	TS-4	Z	-.003	-.003	0	%100
145	SA-1	Z	-.000258	-.000258	0	%100
146	SA-3	Z	-.002	-.002	0	%100
147	SA-2	Z	-.002	-.002	0	%100
148	MP-10	Z	-.002	-.002	0	%100
149	MP-12	Z	-.002	-.002	0	%100
150	MP-11	Z	-.002	-.002	0	%100
151	MP-8	Z	-.003	-.003	0	%100
152	MP-7	Z	-.003	-.003	0	%100
153	MP-9	Z	-.003	-.003	0	%100
154	MP-5	Z	-.003	-.003	0	%100
155	MP-4	Z	-.003	-.003	0	%100
156	MP-6	Z	-.003	-.003	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	SF2-TH	X	0	0	0	%100
2	SF3-TH	X	.002	.002	0	%100
3	FFTH-1	X	.001	.001	0	%100
4	FFBH-1	X	.001	.001	0	%100
5	FFTH-2	X	.002	.002	0	%100
6	FFBH-2	X	.002	.002	0	%100
7	FFTH-3	X	.001	.001	0	%100
8	FFBH-3	X	.001	.001	0	%100
9	SF2-BH	X	0	0	0	%100
10	SF3-BH	X	.002	.002	0	%100
11	SF2-V2	X	.001	.001	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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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,%]
12	SF2-V1	X	.001	.001	0	%100
13	SF3-V1	X	.001	.001	0	%100
14	SF3-V2	X	.001	.001	0	%100
15	SF2-D1	X	.000555	.000555	0	%100
16	SF2-D4	X	.000555	.000555	0	%100
17	SF3-D1	X	.000555	.000555	0	%100
18	SF3-D4	X	.000555	.000555	0	%100
19	MP-2	X	.002	.002	0	%100
20	MP-1	X	.002	.002	0	%100
21	MP-3	X	.002	.002	0	%100
22	M39B	X	.002	.002	0	%100
23	TS-1	X	.002	.002	0	%100
24	TS-2	X	.002	.002	0	%100
25	SF6-TH	X	.001	.001	0	%100
26	SF-7 TH	X	.000876	.000876	0	%100
27	FFTH-7	X	.000464	.000464	0	%100
28	FFBH-7	X	.000464	.000464	0	%100
29	FFTH-8	X	.000477	.000477	0	%100
30	FFBH-8	X	.000477	.000477	0	%100
31	FFTH-9	X	.000464	.000464	0	%100
32	FFBH-9	X	.000464	.000464	0	%100
33	SF6-BH	X	.001	.001	0	%100
34	SF-7 BH	X	.000876	.000876	0	%100
35	SF-6 V2	X	.001	.001	0	%100
36	SF-6 V1	X	.001	.001	0	%100
37	SF-7 V1	X	.001	.001	0	%100
38	SF-7 V2	X	.001	.001	0	%100
39	SF-6 D1	X	.000885	.000885	0	%100
40	SF-6 D4	X	.000885	.000885	0	%100
41	SF-7 D1	X	.000283	.000283	0	%100
42	SF-7 D4	X	.000283	.000283	0	%100
43	M78	X	.002	.002	0	%100
44	TS-5	X	.000504	.000504	0	%100
45	TS-6	X	.000504	.000504	0	%100
46	SF-4 TH	X	.002	.002	0	%100
47	SF-5 TH	X	.000774	.000774	0	%100
48	FFTH-4	X	.002	.002	0	%100
49	FFBH-4	X	.002	.002	0	%100
50	FFTH-5	X	.002	.002	0	%100
51	FFBH-5	X	.002	.002	0	%100
52	FFTH-6	X	.002	.002	0	%100
53	FFBH-6	X	.002	.002	0	%100
54	SF4-BH	X	.002	.002	0	%100
55	SF5-BH	X	.000774	.000774	0	%100
56	SF-4 V2	X	.001	.001	0	%100
57	SF-4 V1	X	.001	.001	0	%100
58	SF-5 V1	X	.001	.001	0	%100
59	SF-5 V2	X	.001	.001	0	%100
60	SF-4 D1	X	.000283	.000283	0	%100
61	SF-4 D4	X	.000283	.000283	0	%100
62	SF-5 D1	X	.000885	.000885	0	%100
63	SF-5 D4	X	.000885	.000885	0	%100
64	M118	X	.002	.002	0	%100
65	TS-3	X	.002	.002	0	%100
66	TS-4	X	.002	.002	0	%100
67	SA-1	X	.000301	.000301	0	%100
68	SA-3	X	.001	.001	0	%100

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,%]
69	SA-2	X	.002	.002	0	%100
70	MP-10	X	.002	.002	0	%100
71	MP-12	X	.002	.002	0	%100
72	MP-11	X	.002	.002	0	%100
73	MP-8	X	.002	.002	0	%100
74	MP-7	X	.002	.002	0	%100
75	MP-9	X	.002	.002	0	%100
76	MP-5	X	.002	.002	0	%100
77	MP-4	X	.002	.002	0	%100
78	MP-6	X	.002	.002	0	%100
79	SF2-TH	Z	0	0	0	%100
80	SF3-TH	Z	-.002	-.002	0	%100
81	FFTH-1	Z	-.001	-.001	0	%100
82	FFBH-1	Z	-.001	-.001	0	%100
83	FFTH-2	Z	-.001	-.001	0	%100
84	FFBH-2	Z	-.001	-.001	0	%100
85	FFTH-3	Z	-.001	-.001	0	%100
86	FFBH-3	Z	-.001	-.001	0	%100
87	SF2-BH	Z	0	0	0	%100
88	SF3-BH	Z	-.002	-.002	0	%100
89	SF2-V2	Z	-.001	-.001	0	%100
90	SF2-V1	Z	-.001	-.001	0	%100
91	SF3-V1	Z	-.001	-.001	0	%100
92	SF3-V2	Z	-.001	-.001	0	%100
93	SF2-D1	Z	-.000639	-.000639	0	%100
94	SF2-D4	Z	-.000639	-.000639	0	%100
95	SF3-D1	Z	-.000639	-.000639	0	%100
96	SF3-D4	Z	-.000639	-.000639	0	%100
97	MP-2	Z	-.003	-.003	0	%100
98	MP-1	Z	-.003	-.003	0	%100
99	MP-3	Z	-.003	-.003	0	%100
100	M39B	Z	-.003	-.003	0	%100
101	TS-1	Z	-.002	-.002	0	%100
102	TS-2	Z	-.002	-.002	0	%100
103	SF6-TH	Z	-.002	-.002	0	%100
104	SF-7 TH	Z	-.000774	-.000774	0	%100
105	FFTH-7	Z	-.000508	-.000508	0	%100
106	FFBH-7	Z	-.000508	-.000508	0	%100
107	FFTH-8	Z	-.000533	-.000533	0	%100
108	FFBH-8	Z	-.000533	-.000533	0	%100
109	FFTH-9	Z	-.000508	-.000508	0	%100
110	FFBH-9	Z	-.000508	-.000508	0	%100
111	SF6-BH	Z	-.002	-.002	0	%100
112	SF-7 BH	Z	-.000774	-.000774	0	%100
113	SF-6 V2	Z	-.001	-.001	0	%100
114	SF-6 V1	Z	-.001	-.001	0	%100
115	SF-7 V1	Z	-.001	-.001	0	%100
116	SF-7 V2	Z	-.001	-.001	0	%100
117	SF-6 D1	Z	-.001	-.001	0	%100
118	SF-6 D4	Z	-.001	-.001	0	%100
119	SF-7 D1	Z	-.000303	-.000303	0	%100
120	SF-7 D4	Z	-.000303	-.000303	0	%100
121	M78	Z	-.003	-.003	0	%100
122	TS-5	Z	-.000583	-.000583	0	%100
123	TS-6	Z	-.000583	-.000583	0	%100
124	SF-4 TH	Z	-.001	-.001	0	%100
125	SF-5 TH	Z	-.000876	-.000876	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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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,%]
126	FFTH-4	Z	-.002	-.002	0	%100
127	FFBH-4	Z	-.002	-.002	0	%100
128	FFTH-5	Z	-.002	-.002	0	%100
129	FFBH-5	Z	-.002	-.002	0	%100
130	FFTH-6	Z	-.002	-.002	0	%100
131	FFBH-6	Z	-.002	-.002	0	%100
132	SF4-BH	Z	-.001	-.001	0	%100
133	SF5-BH	Z	-.000876	-.000876	0	%100
134	SF-4 V2	Z	-.001	-.001	0	%100
135	SF-4 V1	Z	-.001	-.001	0	%100
136	SF-5 V1	Z	-.001	-.001	0	%100
137	SF-5 V2	Z	-.001	-.001	0	%100
138	SF-4 D1	Z	-.000303	-.000303	0	%100
139	SF-4 D4	Z	-.000303	-.000303	0	%100
140	SF-5 D1	Z	-.001	-.001	0	%100
141	SF-5 D4	Z	-.001	-.001	0	%100
142	M118	Z	-.003	-.003	0	%100
143	TS-3	Z	-.002	-.002	0	%100
144	TS-4	Z	-.002	-.002	0	%100
145	SA-1	Z	-.000276	-.000276	0	%100
146	SA-3	Z	-.002	-.002	0	%100
147	SA-2	Z	-.002	-.002	0	%100
148	MP-10	Z	-.002	-.002	0	%100
149	MP-12	Z	-.002	-.002	0	%100
150	MP-11	Z	-.002	-.002	0	%100
151	MP-8	Z	-.003	-.003	0	%100
152	MP-7	Z	-.003	-.003	0	%100
153	MP-9	Z	-.003	-.003	0	%100
154	MP-5	Z	-.003	-.003	0	%100
155	MP-4	Z	-.003	-.003	0	%100
156	MP-6	Z	-.003	-.003	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	SF2-TH	X	.00053	.00053	0	%100
2	SF3-TH	X	.002	.002	0	%100
3	FFTH-1	X	.002	.002	0	%100
4	FFBH-1	X	.002	.002	0	%100
5	FFTH-2	X	.002	.002	0	%100
6	FFBH-2	X	.002	.002	0	%100
7	FFTH-3	X	.002	.002	0	%100
8	FFBH-3	X	.002	.002	0	%100
9	SF2-BH	X	.00053	.00053	0	%100
10	SF3-BH	X	.002	.002	0	%100
11	SF2-V2	X	.000931	.000931	0	%100
12	SF2-V1	X	.000931	.000931	0	%100
13	SF3-V1	X	.000931	.000931	0	%100
14	SF3-V2	X	.000931	.000931	0	%100
15	SF2-D1	X	.000173	.000173	0	%100
16	SF2-D4	X	.000173	.000173	0	%100
17	SF3-D1	X	.000173	.000173	0	%100
18	SF3-D4	X	.000173	.000173	0	%100
19	MP-2	X	.003	.003	0	%100
20	MP-1	X	.003	.003	0	%100
21	MP-3	X	.003	.003	0	%100
22	M39B	X	.003	.003	0	%100

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,%]
23	TS-1	X	.003	.003	0	%100
24	TS-2	X	.003	.003	0	%100
25	SF6-TH	X	.001	.001	0	%100
26	SF-7 TH	X	.002	.002	0	%100
27	FFTH-7	X	0	0	0	%100
28	FFBH-7	X	0	0	0	%100
29	FFTH-8	X	0	0	0	%100
30	FFBH-8	X	0	0	0	%100
31	FFTH-9	X	0	0	0	%100
32	FFBH-9	X	0	0	0	%100
33	SF6-BH	X	.001	.001	0	%100
34	SF-7 BH	X	.002	.002	0	%100
35	SF-6 V2	X	.000931	.000931	0	%100
36	SF-6 V1	X	.000931	.000931	0	%100
37	SF-7 V1	X	.000931	.000931	0	%100
38	SF-7 V2	X	.000931	.000931	0	%100
39	SF-6 D1	X	.000662	.000662	0	%100
40	SF-6 D4	X	.000662	.000662	0	%100
41	SF-7 D1	X	.000197	.000197	0	%100
42	SF-7 D4	X	.000197	.000197	0	%100
43	M78	X	.003	.003	0	%100
44	TS-5	X	0	0	0	%100
45	TS-6	X	0	0	0	%100
46	SF-4 TH	X	.002	.002	0	%100
47	SF-5 TH	X	.00049	.00049	0	%100
48	FFTH-4	X	.002	.002	0	%100
49	FFBH-4	X	.002	.002	0	%100
50	FFTH-5	X	.002	.002	0	%100
51	FFBH-5	X	.002	.002	0	%100
52	FFTH-6	X	.002	.002	0	%100
53	FFBH-6	X	.002	.002	0	%100
54	SF4-BH	X	.002	.002	0	%100
55	SF5-BH	X	.00049	.00049	0	%100
56	SF-4 V2	X	.000931	.000931	0	%100
57	SF-4 V1	X	.000931	.000931	0	%100
58	SF-5 V1	X	.000931	.000931	0	%100
59	SF-5 V2	X	.000931	.000931	0	%100
60	SF-4 D1	X	.000197	.000197	0	%100
61	SF-4 D4	X	.000197	.000197	0	%100
62	SF-5 D1	X	.000662	.000662	0	%100
63	SF-5 D4	X	.000662	.000662	0	%100
64	M118	X	.003	.003	0	%100
65	TS-3	X	.002	.002	0	%100
66	TS-4	X	.002	.002	0	%100
67	SA-1	X	.000993	.000993	0	%100
68	SA-3	X	.001	.001	0	%100
69	SA-2	X	.003	.003	0	%100
70	MP-10	X	.002	.002	0	%100
71	MP-12	X	.002	.002	0	%100
72	MP-11	X	.002	.002	0	%100
73	MP-8	X	.003	.003	0	%100
74	MP-7	X	.003	.003	0	%100
75	MP-9	X	.003	.003	0	%100
76	MP-5	X	.003	.003	0	%100
77	MP-4	X	.003	.003	0	%100
78	MP-6	X	.003	.003	0	%100
79	SF2-TH	Z	-.000306	-.000306	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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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,%]
80	SF3-TH	Z	-.001	-.001	0	%100
81	FFTH-1	Z	-.001	-.001	0	%100
82	FFBH-1	Z	-.001	-.001	0	%100
83	FFTH-2	Z	-.001	-.001	0	%100
84	FFBH-2	Z	-.001	-.001	0	%100
85	FFTH-3	Z	-.001	-.001	0	%100
86	FFBH-3	Z	-.001	-.001	0	%100
87	SF2-BH	Z	-.000306	-.000306	0	%100
88	SF3-BH	Z	-.001	-.001	0	%100
89	SF2-V2	Z	-.000649	-.000649	0	%100
90	SF2-V1	Z	-.000649	-.000649	0	%100
91	SF3-V1	Z	-.000649	-.000649	0	%100
92	SF3-V2	Z	-.000649	-.000649	0	%100
93	SF2-D1	Z	-.000115	-.000115	0	%100
94	SF2-D4	Z	-.000115	-.000115	0	%100
95	SF3-D1	Z	-.000115	-.000115	0	%100
96	SF3-D4	Z	-.000115	-.000115	0	%100
97	MP-2	Z	-.002	-.002	0	%100
98	MP-1	Z	-.002	-.002	0	%100
99	MP-3	Z	-.002	-.002	0	%100
100	M39B	Z	-.002	-.002	0	%100
101	TS-1	Z	-.001	-.001	0	%100
102	TS-2	Z	-.001	-.001	0	%100
103	SF6-TH	Z	-.000876	-.000876	0	%100
104	SF-7 TH	Z	-.000774	-.000774	0	%100
105	FFTH-7	Z	0	0	0	%100
106	FFBH-7	Z	0	0	0	%100
107	FFTH-8	Z	0	0	0	%100
108	FFBH-8	Z	0	0	0	%100
109	FFTH-9	Z	0	0	0	%100
110	FFBH-9	Z	0	0	0	%100
111	SF6-BH	Z	-.000876	-.000876	0	%100
112	SF-7 BH	Z	-.000774	-.000774	0	%100
113	SF-6 V2	Z	-.000649	-.000649	0	%100
114	SF-6 V1	Z	-.000649	-.000649	0	%100
115	SF-7 V1	Z	-.000649	-.000649	0	%100
116	SF-7 V2	Z	-.000649	-.000649	0	%100
117	SF-6 D1	Z	-.000485	-.000485	0	%100
118	SF-6 D4	Z	-.000485	-.000485	0	%100
119	SF-7 D1	Z	-.000122	-.000122	0	%100
120	SF-7 D4	Z	-.000122	-.000122	0	%100
121	M78	Z	-.002	-.002	0	%100
122	TS-5	Z	0	0	0	%100
123	TS-6	Z	0	0	0	%100
124	SF-4 TH	Z	-.001	-.001	0	%100
125	SF-5 TH	Z	-.000321	-.000321	0	%100
126	FFTH-4	Z	-.001	-.001	0	%100
127	FFBH-4	Z	-.001	-.001	0	%100
128	FFTH-5	Z	-.001	-.001	0	%100
129	FFBH-5	Z	-.001	-.001	0	%100
130	FFTH-6	Z	-.001	-.001	0	%100
131	FFBH-6	Z	-.001	-.001	0	%100
132	SF4-BH	Z	-.001	-.001	0	%100
133	SF5-BH	Z	-.000321	-.000321	0	%100
134	SF-4 V2	Z	-.000649	-.000649	0	%100
135	SF-4 V1	Z	-.000649	-.000649	0	%100
136	SF-5 V1	Z	-.000649	-.000649	0	%100

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,%]
137	SF-5 V2	Z	-.000649	-.000649	0	%100
138	SF-4 D1	Z	-.000122	-.000122	0	%100
139	SF-4 D4	Z	-.000122	-.000122	0	%100
140	SF-5 D1	Z	-.000485	-.000485	0	%100
141	SF-5 D4	Z	-.000485	-.000485	0	%100
142	M118	Z	-.002	-.002	0	%100
143	TS-3	Z	-.001	-.001	0	%100
144	TS-4	Z	-.001	-.001	0	%100
145	SA-1	Z	-.000526	-.000526	0	%100
146	SA-3	Z	-.000919	-.000919	0	%100
147	SA-2	Z	-.001	-.001	0	%100
148	MP-10	Z	-.001	-.001	0	%100
149	MP-12	Z	-.001	-.001	0	%100
150	MP-11	Z	-.001	-.001	0	%100
151	MP-8	Z	-.002	-.002	0	%100
152	MP-7	Z	-.002	-.002	0	%100
153	MP-9	Z	-.002	-.002	0	%100
154	MP-5	Z	-.002	-.002	0	%100
155	MP-4	Z	-.002	-.002	0	%100
156	MP-6	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	SF2-TH	X	.002	.002	0	%100
2	SF3-TH	X	.002	.002	0	%100
3	FFTH-1	X	.003	.003	0	%100
4	FFBH-1	X	.003	.003	0	%100
5	FFTH-2	X	.003	.003	0	%100
6	FFBH-2	X	.003	.003	0	%100
7	FFTH-3	X	.003	.003	0	%100
8	FFBH-3	X	.003	.003	0	%100
9	SF2-BH	X	.002	.002	0	%100
10	SF3-BH	X	.002	.002	0	%100
11	SF2-V2	X	.002	.002	0	%100
12	SF2-V1	X	.002	.002	0	%100
13	SF3-V1	X	.002	.002	0	%100
14	SF3-V2	X	.002	.002	0	%100
15	SF2-D1	X	.002	.002	0	%100
16	SF2-D4	X	.002	.002	0	%100
17	SF3-D1	X	.002	.002	0	%100
18	SF3-D4	X	.002	.002	0	%100
19	MP-2	X	.003	.003	0	%100
20	MP-1	X	.003	.003	0	%100
21	MP-3	X	.003	.003	0	%100
22	M39B	X	.003	.003	0	%100
23	TS-1	X	.003	.003	0	%100
24	TS-2	X	.003	.003	0	%100
25	SF6-TH	X	.002	.002	0	%100
26	SF-7 TH	X	.002	.002	0	%100
27	FFTH-7	X	.003	.003	0	%100
28	FFBH-7	X	.003	.003	0	%100
29	FFTH-8	X	.003	.003	0	%100
30	FFBH-8	X	.003	.003	0	%100
31	FFTH-9	X	.003	.003	0	%100
32	FFBH-9	X	.003	.003	0	%100
33	SF6-BH	X	.002	.002	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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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,%]
34	SF-7 BH	X	.002	.002	0	%100
35	SF-6 V2	X	.002	.002	0	%100
36	SF-6 V1	X	.002	.002	0	%100
37	SF-7 V1	X	.002	.002	0	%100
38	SF-7 V2	X	.002	.002	0	%100
39	SF-6 D1	X	.002	.002	0	%100
40	SF-6 D4	X	.002	.002	0	%100
41	SF-7 D1	X	.002	.002	0	%100
42	SF-7 D4	X	.002	.002	0	%100
43	M78	X	.003	.003	0	%100
44	TS-5	X	.003	.003	0	%100
45	TS-6	X	.003	.003	0	%100
46	SF-4 TH	X	.002	.002	0	%100
47	SF-5 TH	X	.002	.002	0	%100
48	FFTH-4	X	.003	.003	0	%100
49	FFBH-4	X	.003	.003	0	%100
50	FFTH-5	X	.003	.003	0	%100
51	FFBH-5	X	.003	.003	0	%100
52	FFTH-6	X	.003	.003	0	%100
53	FFBH-6	X	.003	.003	0	%100
54	SF4-BH	X	.002	.002	0	%100
55	SF5-BH	X	.002	.002	0	%100
56	SF-4 V2	X	.002	.002	0	%100
57	SF-4 V1	X	.002	.002	0	%100
58	SF-5 V1	X	.002	.002	0	%100
59	SF-5 V2	X	.002	.002	0	%100
60	SF-4 D1	X	.002	.002	0	%100
61	SF-4 D4	X	.002	.002	0	%100
62	SF-5 D1	X	.002	.002	0	%100
63	SF-5 D4	X	.002	.002	0	%100
64	M118	X	.003	.003	0	%100
65	TS-3	X	.003	.003	0	%100
66	TS-4	X	.003	.003	0	%100
67	SA-1	X	.003	.003	0	%100
68	SA-3	X	.002	.002	0	%100
69	SA-2	X	.003	.003	0	%100
70	MP-10	X	.003	.003	0	%100
71	MP-12	X	.003	.003	0	%100
72	MP-11	X	.003	.003	0	%100
73	MP-8	X	.003	.003	0	%100
74	MP-7	X	.003	.003	0	%100
75	MP-9	X	.003	.003	0	%100
76	MP-5	X	.003	.003	0	%100
77	MP-4	X	.003	.003	0	%100
78	MP-6	X	.003	.003	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	SF2-TH	X	.002	.002	0	%100
2	SF3-TH	X	.00053	.00053	0	%100
3	FFTH-1	X	.002	.002	0	%100
4	FFBH-1	X	.002	.002	0	%100
5	FFTH-2	X	.002	.002	0	%100
6	FFBH-2	X	.002	.002	0	%100
7	FFTH-3	X	.002	.002	0	%100
8	FFBH-3	X	.002	.002	0	%100

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,%]
9	SF2-BH	X	.002	.002	0	%100
10	SF3-BH	X	.00053	.00053	0	%100
11	SF2-V2	X	.000931	.000931	0	%100
12	SF2-V1	X	.000931	.000931	0	%100
13	SF3-V1	X	.000931	.000931	0	%100
14	SF3-V2	X	.000931	.000931	0	%100
15	SF2-D1	X	.002	.002	0	%100
16	SF2-D4	X	.002	.002	0	%100
17	SF3-D1	X	.002	.002	0	%100
18	SF3-D4	X	.002	.002	0	%100
19	MP-2	X	.003	.003	0	%100
20	MP-1	X	.003	.003	0	%100
21	MP-3	X	.003	.003	0	%100
22	M39B	X	.003	.003	0	%100
23	TS-1	X	.003	.003	0	%100
24	TS-2	X	.003	.003	0	%100
25	SF6-TH	X	.00049	.00049	0	%100
26	SF-7 TH	X	.002	.002	0	%100
27	FFTH-7	X	.002	.002	0	%100
28	FFBH-7	X	.002	.002	0	%100
29	FFTH-8	X	.002	.002	0	%100
30	FFBH-8	X	.002	.002	0	%100
31	FFTH-9	X	.002	.002	0	%100
32	FFBH-9	X	.002	.002	0	%100
33	SF6-BH	X	.00049	.00049	0	%100
34	SF-7 BH	X	.002	.002	0	%100
35	SF-6 V2	X	.000931	.000931	0	%100
36	SF-6 V1	X	.000931	.000931	0	%100
37	SF-7 V1	X	.000931	.000931	0	%100
38	SF-7 V2	X	.000931	.000931	0	%100
39	SF-6 D1	X	.001	.001	0	%100
40	SF-6 D4	X	.001	.001	0	%100
41	SF-7 D1	X	.002	.002	0	%100
42	SF-7 D4	X	.002	.002	0	%100
43	M78	X	.003	.003	0	%100
44	TS-5	X	.002	.002	0	%100
45	TS-6	X	.002	.002	0	%100
46	SF-4 TH	X	.002	.002	0	%100
47	SF-5 TH	X	.001	.001	0	%100
48	FFTH-4	X	0	0	0	%100
49	FFBH-4	X	0	0	0	%100
50	FFTH-5	X	0	0	0	%100
51	FFBH-5	X	0	0	0	%100
52	FFTH-6	X	0	0	0	%100
53	FFBH-6	X	0	0	0	%100
54	SF4-BH	X	.002	.002	0	%100
55	SF5-BH	X	.001	.001	0	%100
56	SF-4 V2	X	.000931	.000931	0	%100
57	SF-4 V1	X	.000931	.000931	0	%100
58	SF-5 V1	X	.000931	.000931	0	%100
59	SF-5 V2	X	.000931	.000931	0	%100
60	SF-4 D1	X	.002	.002	0	%100
61	SF-4 D4	X	.002	.002	0	%100
62	SF-5 D1	X	.001	.001	0	%100
63	SF-5 D4	X	.001	.001	0	%100
64	M118	X	.003	.003	0	%100
65	TS-3	X	0	0	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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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,%]
66	TS-4	X	0	0	0	%100
67	SA-1	X	.002	.002	0	%100
68	SA-3	X	.000722	.000722	0	%100
69	SA-2	X	.002	.002	0	%100
70	MP-10	X	.002	.002	0	%100
71	MP-12	X	.002	.002	0	%100
72	MP-11	X	.002	.002	0	%100
73	MP-8	X	.003	.003	0	%100
74	MP-7	X	.003	.003	0	%100
75	MP-9	X	.003	.003	0	%100
76	MP-5	X	.003	.003	0	%100
77	MP-4	X	.003	.003	0	%100
78	MP-6	X	.003	.003	0	%100
79	SF2-TH	Z	.001	.001	0	%100
80	SF3-TH	Z	.000306	.000306	0	%100
81	FFTH-1	Z	.001	.001	0	%100
82	FFBH-1	Z	.001	.001	0	%100
83	FFTH-2	Z	.001	.001	0	%100
84	FFBH-2	Z	.001	.001	0	%100
85	FFTH-3	Z	.001	.001	0	%100
86	FFBH-3	Z	.001	.001	0	%100
87	SF2-BH	Z	.001	.001	0	%100
88	SF3-BH	Z	.000306	.000306	0	%100
89	SF2-V2	Z	.000649	.000649	0	%100
90	SF2-V1	Z	.000649	.000649	0	%100
91	SF3-V1	Z	.000649	.000649	0	%100
92	SF3-V2	Z	.000649	.000649	0	%100
93	SF2-D1	Z	.001	.001	0	%100
94	SF2-D4	Z	.001	.001	0	%100
95	SF3-D1	Z	.001	.001	0	%100
96	SF3-D4	Z	.001	.001	0	%100
97	MP-2	Z	.002	.002	0	%100
98	MP-1	Z	.002	.002	0	%100
99	MP-3	Z	.002	.002	0	%100
100	M39B	Z	.002	.002	0	%100
101	TS-1	Z	.001	.001	0	%100
102	TS-2	Z	.001	.001	0	%100
103	SF6-TH	Z	.000321	.000321	0	%100
104	SF-7 TH	Z	.001	.001	0	%100
105	FFTH-7	Z	.001	.001	0	%100
106	FFBH-7	Z	.001	.001	0	%100
107	FFTH-8	Z	.001	.001	0	%100
108	FFBH-8	Z	.001	.001	0	%100
109	FFTH-9	Z	.001	.001	0	%100
110	FFBH-9	Z	.001	.001	0	%100
111	SF6-BH	Z	.000321	.000321	0	%100
112	SF-7 BH	Z	.001	.001	0	%100
113	SF-6 V2	Z	.000649	.000649	0	%100
114	SF-6 V1	Z	.000649	.000649	0	%100
115	SF-7 V1	Z	.000649	.000649	0	%100
116	SF-7 V2	Z	.000649	.000649	0	%100
117	SF-6 D1	Z	.000849	.000849	0	%100
118	SF-6 D4	Z	.000849	.000849	0	%100
119	SF-7 D1	Z	.001	.001	0	%100
120	SF-7 D4	Z	.001	.001	0	%100
121	M78	Z	.002	.002	0	%100
122	TS-5	Z	.001	.001	0	%100

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,%]
123	TS-6	Z	.001	.001	0	%100
124	SF-4 TH	Z	.000774	.000774	0	%100
125	SF-5 TH	Z	.000876	.000876	0	%100
126	FFTH-4	Z	0	0	0	%100
127	FFBH-4	Z	0	0	0	%100
128	FFTH-5	Z	0	0	0	%100
129	FFBH-5	Z	0	0	0	%100
130	FFTH-6	Z	0	0	0	%100
131	FFBH-6	Z	0	0	0	%100
132	SF4-BH	Z	.000774	.000774	0	%100
133	SF5-BH	Z	.000876	.000876	0	%100
134	SF-4 V2	Z	.000649	.000649	0	%100
135	SF-4 V1	Z	.000649	.000649	0	%100
136	SF-5 V1	Z	.000649	.000649	0	%100
137	SF-5 V2	Z	.000649	.000649	0	%100
138	SF-4 D1	Z	.001	.001	0	%100
139	SF-4 D4	Z	.001	.001	0	%100
140	SF-5 D1	Z	.000849	.000849	0	%100
141	SF-5 D4	Z	.000849	.000849	0	%100
142	M118	Z	.002	.002	0	%100
143	TS-3	Z	0	0	0	%100
144	TS-4	Z	0	0	0	%100
145	SA-1	Z	.001	.001	0	%100
146	SA-3	Z	.000616	.000616	0	%100
147	SA-2	Z	.000717	.000717	0	%100
148	MP-10	Z	.001	.001	0	%100
149	MP-12	Z	.001	.001	0	%100
150	MP-11	Z	.001	.001	0	%100
151	MP-8	Z	.002	.002	0	%100
152	MP-7	Z	.002	.002	0	%100
153	MP-9	Z	.002	.002	0	%100
154	MP-5	Z	.002	.002	0	%100
155	MP-4	Z	.002	.002	0	%100
156	MP-6	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	SF2-TH	X	.002	.002	0	%100
2	SF3-TH	X	0	0	0	%100
3	FFTH-1	X	.001	.001	0	%100
4	FFBH-1	X	.001	.001	0	%100
5	FFTH-2	X	.002	.002	0	%100
6	FFBH-2	X	.002	.002	0	%100
7	FFTH-3	X	.001	.001	0	%100
8	FFBH-3	X	.001	.001	0	%100
9	SF2-BH	X	.002	.002	0	%100
10	SF3-BH	X	0	0	0	%100
11	SF2-V2	X	.001	.001	0	%100
12	SF2-V1	X	.001	.001	0	%100
13	SF3-V1	X	.001	.001	0	%100
14	SF3-V2	X	.001	.001	0	%100
15	SF2-D1	X	.002	.002	0	%100
16	SF2-D4	X	.002	.002	0	%100
17	SF3-D1	X	.002	.002	0	%100
18	SF3-D4	X	.002	.002	0	%100
19	MP-2	X	.002	.002	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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Checked By: TWC

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,%]
20	MP-1	X	.002	.002	0	%100
21	MP-3	X	.002	.002	0	%100
22	M39B	X	.002	.002	0	%100
23	TS-1	X	.002	.002	0	%100
24	TS-2	X	.002	.002	0	%100
25	SF6-TH	X	.000774	.000774	0	%100
26	SF-7 TH	X	.002	.002	0	%100
27	FFTH-7	X	.002	.002	0	%100
28	FFBH-7	X	.002	.002	0	%100
29	FFTH-8	X	.002	.002	0	%100
30	FFBH-8	X	.002	.002	0	%100
31	FFTH-9	X	.002	.002	0	%100
32	FFBH-9	X	.002	.002	0	%100
33	SF6-BH	X	.000774	.000774	0	%100
34	SF-7 BH	X	.002	.002	0	%100
35	SF-6 V2	X	.001	.001	0	%100
36	SF-6 V1	X	.001	.001	0	%100
37	SF-7 V1	X	.001	.001	0	%100
38	SF-7 V2	X	.001	.001	0	%100
39	SF-6 D1	X	.001	.001	0	%100
40	SF-6 D4	X	.001	.001	0	%100
41	SF-7 D1	X	.002	.002	0	%100
42	SF-7 D4	X	.002	.002	0	%100
43	M78	X	.002	.002	0	%100
44	TS-5	X	.002	.002	0	%100
45	TS-6	X	.002	.002	0	%100
46	SF-4 TH	X	.000876	.000876	0	%100
47	SF-5 TH	X	.001	.001	0	%100
48	FFTH-4	X	.000464	.000464	0	%100
49	FFBH-4	X	.000464	.000464	0	%100
50	FFTH-5	X	.000477	.000477	0	%100
51	FFBH-5	X	.000477	.000477	0	%100
52	FFTH-6	X	.000464	.000464	0	%100
53	FFBH-6	X	.000464	.000464	0	%100
54	SF4-BH	X	.000876	.000876	0	%100
55	SF5-BH	X	.001	.001	0	%100
56	SF-4 V2	X	.001	.001	0	%100
57	SF-4 V1	X	.001	.001	0	%100
58	SF-5 V1	X	.001	.001	0	%100
59	SF-5 V2	X	.001	.001	0	%100
60	SF-4 D1	X	.002	.002	0	%100
61	SF-4 D4	X	.002	.002	0	%100
62	SF-5 D1	X	.001	.001	0	%100
63	SF-5 D4	X	.001	.001	0	%100
64	M118	X	.002	.002	0	%100
65	TS-3	X	.000504	.000504	0	%100
66	TS-4	X	.000504	.000504	0	%100
67	SA-1	X	.002	.002	0	%100
68	SA-3	X	.00092	.00092	0	%100
69	SA-2	X	.000778	.000778	0	%100
70	MP-10	X	.002	.002	0	%100
71	MP-12	X	.002	.002	0	%100
72	MP-11	X	.002	.002	0	%100
73	MP-8	X	.002	.002	0	%100
74	MP-7	X	.002	.002	0	%100
75	MP-9	X	.002	.002	0	%100
76	MP-5	X	.002	.002	0	%100

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,%]
77	MP-4	X	.002	.002	0	%100
78	MP-6	X	.002	.002	0	%100
79	SF2-TH	Z	.002	.002	0	%100
80	SF3-TH	Z	0	0	0	%100
81	FFTH-1	Z	.001	.001	0	%100
82	FFBH-1	Z	.001	.001	0	%100
83	FFTH-2	Z	.001	.001	0	%100
84	FFBH-2	Z	.001	.001	0	%100
85	FFTH-3	Z	.001	.001	0	%100
86	FFBH-3	Z	.001	.001	0	%100
87	SF2-BH	Z	.002	.002	0	%100
88	SF3-BH	Z	0	0	0	%100
89	SF2-V2	Z	.001	.001	0	%100
90	SF2-V1	Z	.001	.001	0	%100
91	SF3-V1	Z	.001	.001	0	%100
92	SF3-V2	Z	.001	.001	0	%100
93	SF2-D1	Z	.002	.002	0	%100
94	SF2-D4	Z	.002	.002	0	%100
95	SF3-D1	Z	.002	.002	0	%100
96	SF3-D4	Z	.002	.002	0	%100
97	MP-2	Z	.003	.003	0	%100
98	MP-1	Z	.003	.003	0	%100
99	MP-3	Z	.003	.003	0	%100
100	M39B	Z	.003	.003	0	%100
101	TS-1	Z	.002	.002	0	%100
102	TS-2	Z	.002	.002	0	%100
103	SF6-TH	Z	.000876	.000876	0	%100
104	SF-7 TH	Z	.001	.001	0	%100
105	FFTH-7	Z	.002	.002	0	%100
106	FFBH-7	Z	.002	.002	0	%100
107	FFTH-8	Z	.002	.002	0	%100
108	FFBH-8	Z	.002	.002	0	%100
109	FFTH-9	Z	.002	.002	0	%100
110	FFBH-9	Z	.002	.002	0	%100
111	SF6-BH	Z	.000876	.000876	0	%100
112	SF-7 BH	Z	.001	.001	0	%100
113	SF-6 V2	Z	.001	.001	0	%100
114	SF-6 V1	Z	.001	.001	0	%100
115	SF-7 V1	Z	.001	.001	0	%100
116	SF-7 V2	Z	.001	.001	0	%100
117	SF-6 D1	Z	.002	.002	0	%100
118	SF-6 D4	Z	.002	.002	0	%100
119	SF-7 D1	Z	.002	.002	0	%100
120	SF-7 D4	Z	.002	.002	0	%100
121	M78	Z	.003	.003	0	%100
122	TS-5	Z	.002	.002	0	%100
123	TS-6	Z	.002	.002	0	%100
124	SF-4 TH	Z	.000774	.000774	0	%100
125	SF-5 TH	Z	.002	.002	0	%100
126	FFTH-4	Z	.000508	.000508	0	%100
127	FFBH-4	Z	.000508	.000508	0	%100
128	FFTH-5	Z	.000533	.000533	0	%100
129	FFBH-5	Z	.000533	.000533	0	%100
130	FFTH-6	Z	.000508	.000508	0	%100
131	FFBH-6	Z	.000508	.000508	0	%100
132	SF4-BH	Z	.000774	.000774	0	%100
133	SF5-BH	Z	.002	.002	0	%100

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,%]
134	SF-4 V2	Z	.001	.001	0	%100
135	SF-4 V1	Z	.001	.001	0	%100
136	SF-5 V1	Z	.001	.001	0	%100
137	SF-5 V2	Z	.001	.001	0	%100
138	SF-4 D1	Z	.002	.002	0	%100
139	SF-4 D4	Z	.002	.002	0	%100
140	SF-5 D1	Z	.002	.002	0	%100
141	SF-5 D4	Z	.002	.002	0	%100
142	M118	Z	.003	.003	0	%100
143	TS-3	Z	.000583	.000583	0	%100
144	TS-4	Z	.000583	.000583	0	%100
145	SA-1	Z	.002	.002	0	%100
146	SA-3	Z	.001	.001	0	%100
147	SA-2	Z	.000625	.000625	0	%100
148	MP-10	Z	.002	.002	0	%100
149	MP-12	Z	.002	.002	0	%100
150	MP-11	Z	.002	.002	0	%100
151	MP-8	Z	.003	.003	0	%100
152	MP-7	Z	.003	.003	0	%100
153	MP-9	Z	.003	.003	0	%100
154	MP-5	Z	.003	.003	0	%100
155	MP-4	Z	.003	.003	0	%100
156	MP-6	Z	.003	.003	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	SF2-TH	X	.001	.001	0	%100
2	SF3-TH	X	.000306	.000306	0	%100
3	FFTH-1	X	.000716	.000716	0	%100
4	FFBH-1	X	.000716	.000716	0	%100
5	FFTH-2	X	.000757	.000757	0	%100
6	FFBH-2	X	.000757	.000757	0	%100
7	FFTH-3	X	.000716	.000716	0	%100
8	FFBH-3	X	.000716	.000716	0	%100
9	SF2-BH	X	.001	.001	0	%100
10	SF3-BH	X	.000306	.000306	0	%100
11	SF2-V2	X	.000931	.000931	0	%100
12	SF2-V1	X	.000931	.000931	0	%100
13	SF3-V1	X	.000931	.000931	0	%100
14	SF3-V2	X	.000931	.000931	0	%100
15	SF2-D1	X	.001	.001	0	%100
16	SF2-D4	X	.001	.001	0	%100
17	SF3-D1	X	.001	.001	0	%100
18	SF3-D4	X	.001	.001	0	%100
19	MP-2	X	.002	.002	0	%100
20	MP-1	X	.002	.002	0	%100
21	MP-3	X	.002	.002	0	%100
22	M39B	X	.002	.002	0	%100
23	TS-1	X	.000837	.000837	0	%100
24	TS-2	X	.000837	.000837	0	%100
25	SF6-TH	X	.000774	.000774	0	%100
26	SF-7 TH	X	.000876	.000876	0	%100
27	FFTH-7	X	.001	.001	0	%100
28	FFBH-7	X	.001	.001	0	%100
29	FFTH-8	X	.001	.001	0	%100
30	FFBH-8	X	.001	.001	0	%100

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,%]
31	FFTH-9	X	.001	.001	0	%100
32	FFBH-9	X	.001	.001	0	%100
33	SF6-BH	X	.000774	.000774	0	%100
34	SF-7 BH	X	.000876	.000876	0	%100
35	SF-6 V2	X	.000931	.000931	0	%100
36	SF-6 V1	X	.000931	.000931	0	%100
37	SF-7 V1	X	.000931	.000931	0	%100
38	SF-7 V2	X	.000931	.000931	0	%100
39	SF-6 D1	X	.000992	.000992	0	%100
40	SF-6 D4	X	.000992	.000992	0	%100
41	SF-7 D1	X	.001	.001	0	%100
42	SF-7 D4	X	.001	.001	0	%100
43	M78	X	.002	.002	0	%100
44	TS-5	X	.001	.001	0	%100
45	TS-6	X	.001	.001	0	%100
46	SF-4 TH	X	.000321	.000321	0	%100
47	SF-5 TH	X	.001	.001	0	%100
48	FFTH-4	X	.000634	.000634	0	%100
49	FFBH-4	X	.000634	.000634	0	%100
50	FFTH-5	X	.000651	.000651	0	%100
51	FFBH-5	X	.000651	.000651	0	%100
52	FFTH-6	X	.000634	.000634	0	%100
53	FFBH-6	X	.000634	.000634	0	%100
54	SF4-BH	X	.000321	.000321	0	%100
55	SF5-BH	X	.001	.001	0	%100
56	SF-4 V2	X	.000931	.000931	0	%100
57	SF-4 V1	X	.000931	.000931	0	%100
58	SF-5 V1	X	.000931	.000931	0	%100
59	SF-5 V2	X	.000931	.000931	0	%100
60	SF-4 D1	X	.001	.001	0	%100
61	SF-4 D4	X	.001	.001	0	%100
62	SF-5 D1	X	.000992	.000992	0	%100
63	SF-5 D4	X	.000992	.000992	0	%100
64	M118	X	.002	.002	0	%100
65	TS-3	X	.000688	.000688	0	%100
66	TS-4	X	.000688	.000688	0	%100
67	SA-1	X	.001	.001	0	%100
68	SA-3	X	.00084	.00084	0	%100
69	SA-2	X	.00017	.00017	0	%100
70	MP-10	X	.001	.001	0	%100
71	MP-12	X	.001	.001	0	%100
72	MP-11	X	.001	.001	0	%100
73	MP-8	X	.002	.002	0	%100
74	MP-7	X	.002	.002	0	%100
75	MP-9	X	.002	.002	0	%100
76	MP-5	X	.002	.002	0	%100
77	MP-4	X	.002	.002	0	%100
78	MP-6	X	.002	.002	0	%100
79	SF2-TH	Z	.002	.002	0	%100
80	SF3-TH	Z	.00053	.00053	0	%100
81	FFTH-1	Z	.001	.001	0	%100
82	FFBH-1	Z	.001	.001	0	%100
83	FFTH-2	Z	.001	.001	0	%100
84	FFBH-2	Z	.001	.001	0	%100
85	FFTH-3	Z	.001	.001	0	%100
86	FFBH-3	Z	.001	.001	0	%100
87	SF2-BH	Z	.002	.002	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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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,%]
88	SF3-BH	Z	.00053	.00053	0	%100
89	SF2-V2	Z	.002	.002	0	%100
90	SF2-V1	Z	.002	.002	0	%100
91	SF3-V1	Z	.002	.002	0	%100
92	SF3-V2	Z	.002	.002	0	%100
93	SF2-D1	Z	.002	.002	0	%100
94	SF2-D4	Z	.002	.002	0	%100
95	SF3-D1	Z	.002	.002	0	%100
96	SF3-D4	Z	.002	.002	0	%100
97	MP-2	Z	.003	.003	0	%100
98	MP-1	Z	.003	.003	0	%100
99	MP-3	Z	.003	.003	0	%100
100	M39B	Z	.003	.003	0	%100
101	TS-1	Z	.001	.001	0	%100
102	TS-2	Z	.001	.001	0	%100
103	SF6-TH	Z	.002	.002	0	%100
104	SF-7 TH	Z	.001	.001	0	%100
105	FFTH-7	Z	.002	.002	0	%100
106	FFBH-7	Z	.002	.002	0	%100
107	FFTH-8	Z	.003	.003	0	%100
108	FFBH-8	Z	.003	.003	0	%100
109	FFTH-9	Z	.002	.002	0	%100
110	FFBH-9	Z	.002	.002	0	%100
111	SF6-BH	Z	.002	.002	0	%100
112	SF-7 BH	Z	.001	.001	0	%100
113	SF-6 V2	Z	.002	.002	0	%100
114	SF-6 V1	Z	.002	.002	0	%100
115	SF-7 V1	Z	.002	.002	0	%100
116	SF-7 V2	Z	.002	.002	0	%100
117	SF-6 D1	Z	.002	.002	0	%100
118	SF-6 D4	Z	.002	.002	0	%100
119	SF-7 D1	Z	.002	.002	0	%100
120	SF-7 D4	Z	.002	.002	0	%100
121	M78	Z	.003	.003	0	%100
122	TS-5	Z	.003	.003	0	%100
123	TS-6	Z	.003	.003	0	%100
124	SF-4 TH	Z	.00049	.00049	0	%100
125	SF-5 TH	Z	.002	.002	0	%100
126	FFTH-4	Z	.001	.001	0	%100
127	FFBH-4	Z	.001	.001	0	%100
128	FFTH-5	Z	.001	.001	0	%100
129	FFBH-5	Z	.001	.001	0	%100
130	FFTH-6	Z	.001	.001	0	%100
131	FFBH-6	Z	.001	.001	0	%100
132	SF4-BH	Z	.00049	.00049	0	%100
133	SF5-BH	Z	.002	.002	0	%100
134	SF-4 V2	Z	.002	.002	0	%100
135	SF-4 V1	Z	.002	.002	0	%100
136	SF-5 V1	Z	.002	.002	0	%100
137	SF-5 V2	Z	.002	.002	0	%100
138	SF-4 D1	Z	.002	.002	0	%100
139	SF-4 D4	Z	.002	.002	0	%100
140	SF-5 D1	Z	.002	.002	0	%100
141	SF-5 D4	Z	.002	.002	0	%100
142	M118	Z	.003	.003	0	%100
143	TS-3	Z	.001	.001	0	%100
144	TS-4	Z	.001	.001	0	%100

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,%]
145	SA-1	Z	.002	.002	0	%100
146	SA-3	Z	.002	.002	0	%100
147	SA-2	Z	.000236	.000236	0	%100
148	MP-10	Z	.002	.002	0	%100
149	MP-12	Z	.002	.002	0	%100
150	MP-11	Z	.002	.002	0	%100
151	MP-8	Z	.003	.003	0	%100
152	MP-7	Z	.003	.003	0	%100
153	MP-9	Z	.003	.003	0	%100
154	MP-5	Z	.003	.003	0	%100
155	MP-4	Z	.003	.003	0	%100
156	MP-6	Z	.003	.003	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	SF2-TH	Z	.002	.002	0	%100
2	SF3-TH	Z	.002	.002	0	%100
3	FFTH-1	Z	0	0	0	%100
4	FFBH-1	Z	0	0	0	%100
5	FFTH-2	Z	0	0	0	%100
6	FFBH-2	Z	0	0	0	%100
7	FFTH-3	Z	0	0	0	%100
8	FFBH-3	Z	0	0	0	%100
9	SF2-BH	Z	.002	.002	0	%100
10	SF3-BH	Z	.002	.002	0	%100
11	SF2-V2	Z	.003	.003	0	%100
12	SF2-V1	Z	.003	.003	0	%100
13	SF3-V1	Z	.003	.003	0	%100
14	SF3-V2	Z	.003	.003	0	%100
15	SF2-D1	Z	.002	.002	0	%100
16	SF2-D4	Z	.002	.002	0	%100
17	SF3-D1	Z	.002	.002	0	%100
18	SF3-D4	Z	.002	.002	0	%100
19	MP-2	Z	.004	.004	0	%100
20	MP-1	Z	.004	.004	0	%100
21	MP-3	Z	.004	.004	0	%100
22	M39B	Z	.004	.004	0	%100
23	TS-1	Z	0	0	0	%100
24	TS-2	Z	0	0	0	%100
25	SF6-TH	Z	.002	.002	0	%100
26	SF-7 TH	Z	.000566	.000566	0	%100
27	FFTH-7	Z	.002	.002	0	%100
28	FFBH-7	Z	.002	.002	0	%100
29	FFTH-8	Z	.003	.003	0	%100
30	FFBH-8	Z	.003	.003	0	%100
31	FFTH-9	Z	.002	.002	0	%100
32	FFBH-9	Z	.002	.002	0	%100
33	SF6-BH	Z	.002	.002	0	%100
34	SF-7 BH	Z	.000566	.000566	0	%100
35	SF-6 V2	Z	.003	.003	0	%100
36	SF-6 V1	Z	.003	.003	0	%100
37	SF-7 V1	Z	.003	.003	0	%100
38	SF-7 V2	Z	.003	.003	0	%100
39	SF-6 D1	Z	.003	.003	0	%100
40	SF-6 D4	Z	.003	.003	0	%100
41	SF-7 D1	Z	.002	.002	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
42	SF-7 D4	Z	.002	.002	0	%100
43	M78	Z	.004	.004	0	%100
44	TS-5	Z	.003	.003	0	%100
45	TS-6	Z	.003	.003	0	%100
46	SF-4 TH	Z	.000566	.000566	0	%100
47	SF-5 TH	Z	.002	.002	0	%100
48	FFTH-4	Z	.002	.002	0	%100
49	FFBH-4	Z	.002	.002	0	%100
50	FFTH-5	Z	.003	.003	0	%100
51	FFBH-5	Z	.003	.003	0	%100
52	FFTH-6	Z	.002	.002	0	%100
53	FFBH-6	Z	.002	.002	0	%100
54	SF4-BH	Z	.000566	.000566	0	%100
55	SF5-BH	Z	.002	.002	0	%100
56	SF-4 V2	Z	.003	.003	0	%100
57	SF-4 V1	Z	.003	.003	0	%100
58	SF-5 V1	Z	.003	.003	0	%100
59	SF-5 V2	Z	.003	.003	0	%100
60	SF-4 D1	Z	.002	.002	0	%100
61	SF-4 D4	Z	.002	.002	0	%100
62	SF-5 D1	Z	.003	.003	0	%100
63	SF-5 D4	Z	.003	.003	0	%100
64	M118	Z	.004	.004	0	%100
65	TS-3	Z	.003	.003	0	%100
66	TS-4	Z	.003	.003	0	%100
67	SA-1	Z	.002	.002	0	%100
68	SA-3	Z	.003	.003	0	%100
69	SA-2	Z	.000962	.000962	0	%100
70	MP-10	Z	.003	.003	0	%100
71	MP-12	Z	.003	.003	0	%100
72	MP-11	Z	.003	.003	0	%100
73	MP-8	Z	.004	.004	0	%100
74	MP-7	Z	.004	.004	0	%100
75	MP-9	Z	.004	.004	0	%100
76	MP-5	Z	.004	.004	0	%100
77	MP-4	Z	.004	.004	0	%100
78	MP-6	Z	.004	.004	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	SF2-TH	X	-.000306	-.000306	0	%100
2	SF3-TH	X	-.001	-.001	0	%100
3	FFTH-1	X	-.000716	-.000716	0	%100
4	FFBH-1	X	-.000716	-.000716	0	%100
5	FFTH-2	X	-.000757	-.000757	0	%100
6	FFBH-2	X	-.000757	-.000757	0	%100
7	FFTH-3	X	-.000716	-.000716	0	%100
8	FFBH-3	X	-.000716	-.000716	0	%100
9	SF2-BH	X	-.000306	-.000306	0	%100
10	SF3-BH	X	-.001	-.001	0	%100
11	SF2-V2	X	-.000931	-.000931	0	%100
12	SF2-V1	X	-.000931	-.000931	0	%100
13	SF3-V1	X	-.000931	-.000931	0	%100
14	SF3-V2	X	-.000931	-.000931	0	%100
15	SF2-D1	X	-.000658	-.000658	0	%100
16	SF2-D4	X	-.000658	-.000658	0	%100

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,%]
17	SF3-D1	X	-.000658	-.000658	0	%100
18	SF3-D4	X	-.000658	-.000658	0	%100
19	MP-2	X	-.002	-.002	0	%100
20	MP-1	X	-.002	-.002	0	%100
21	MP-3	X	-.002	-.002	0	%100
22	M39B	X	-.002	-.002	0	%100
23	TS-1	X	-.000837	-.000837	0	%100
24	TS-2	X	-.000837	-.000837	0	%100
25	SF6-TH	X	-.001	-.001	0	%100
26	SF-7 TH	X	-.000321	-.000321	0	%100
27	FFTH-7	X	-.000634	-.000634	0	%100
28	FFBH-7	X	-.000634	-.000634	0	%100
29	FFTH-8	X	-.000651	-.000651	0	%100
30	FFBH-8	X	-.000651	-.000651	0	%100
31	FFTH-9	X	-.000634	-.000634	0	%100
32	FFBH-9	X	-.000634	-.000634	0	%100
33	SF6-BH	X	-.001	-.001	0	%100
34	SF-7 BH	X	-.000321	-.000321	0	%100
35	SF-6 V2	X	-.000931	-.000931	0	%100
36	SF-6 V1	X	-.000931	-.000931	0	%100
37	SF-7 V1	X	-.000931	-.000931	0	%100
38	SF-7 V2	X	-.000931	-.000931	0	%100
39	SF-6 D1	X	-.000827	-.000827	0	%100
40	SF-6 D4	X	-.000827	-.000827	0	%100
41	SF-7 D1	X	-.000501	-.000501	0	%100
42	SF-7 D4	X	-.000501	-.000501	0	%100
43	M78	X	-.002	-.002	0	%100
44	TS-5	X	-.000688	-.000688	0	%100
45	TS-6	X	-.000688	-.000688	0	%100
46	SF-4 TH	X	-.000876	-.000876	0	%100
47	SF-5 TH	X	-.000774	-.000774	0	%100
48	FFTH-4	X	-.001	-.001	0	%100
49	FFBH-4	X	-.001	-.001	0	%100
50	FFTH-5	X	-.001	-.001	0	%100
51	FFBH-5	X	-.001	-.001	0	%100
52	FFTH-6	X	-.001	-.001	0	%100
53	FFBH-6	X	-.001	-.001	0	%100
54	SF4-BH	X	-.000876	-.000876	0	%100
55	SF5-BH	X	-.000774	-.000774	0	%100
56	SF-4 V2	X	-.000931	-.000931	0	%100
57	SF-4 V1	X	-.000931	-.000931	0	%100
58	SF-5 V1	X	-.000931	-.000931	0	%100
59	SF-5 V2	X	-.000931	-.000931	0	%100
60	SF-4 D1	X	-.000501	-.000501	0	%100
61	SF-4 D4	X	-.000501	-.000501	0	%100
62	SF-5 D1	X	-.000827	-.000827	0	%100
63	SF-5 D4	X	-.000827	-.000827	0	%100
64	M118	X	-.002	-.002	0	%100
65	TS-3	X	-.001	-.001	0	%100
66	TS-4	X	-.001	-.001	0	%100
67	SA-1	X	-.000162	-.000162	0	%100
68	SA-3	X	-.000958	-.000958	0	%100
69	SA-2	X	-.001	-.001	0	%100
70	MP-10	X	-.001	-.001	0	%100
71	MP-12	X	-.001	-.001	0	%100
72	MP-11	X	-.001	-.001	0	%100
73	MP-8	X	-.002	-.002	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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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,%]
74	MP-7	X	-.002	-.002	0	%100
75	MP-9	X	-.002	-.002	0	%100
76	MP-5	X	-.002	-.002	0	%100
77	MP-4	X	-.002	-.002	0	%100
78	MP-6	X	-.002	-.002	0	%100
79	SF2-TH	Z	.00053	.00053	0	%100
80	SF3-TH	Z	.002	.002	0	%100
81	FFTH-1	Z	.001	.001	0	%100
82	FFBH-1	Z	.001	.001	0	%100
83	FFTH-2	Z	.001	.001	0	%100
84	FFBH-2	Z	.001	.001	0	%100
85	FFTH-3	Z	.001	.001	0	%100
86	FFBH-3	Z	.001	.001	0	%100
87	SF2-BH	Z	.00053	.00053	0	%100
88	SF3-BH	Z	.002	.002	0	%100
89	SF2-V2	Z	.002	.002	0	%100
90	SF2-V1	Z	.002	.002	0	%100
91	SF3-V1	Z	.002	.002	0	%100
92	SF3-V2	Z	.002	.002	0	%100
93	SF2-D1	Z	.001	.001	0	%100
94	SF2-D4	Z	.001	.001	0	%100
95	SF3-D1	Z	.001	.001	0	%100
96	SF3-D4	Z	.001	.001	0	%100
97	MP-2	Z	.003	.003	0	%100
98	MP-1	Z	.003	.003	0	%100
99	MP-3	Z	.003	.003	0	%100
100	M39B	Z	.003	.003	0	%100
101	TS-1	Z	.001	.001	0	%100
102	TS-2	Z	.001	.001	0	%100
103	SF6-TH	Z	.002	.002	0	%100
104	SF-7 TH	Z	.00049	.00049	0	%100
105	FFTH-7	Z	.001	.001	0	%100
106	FFBH-7	Z	.001	.001	0	%100
107	FFTH-8	Z	.001	.001	0	%100
108	FFBH-8	Z	.001	.001	0	%100
109	FFTH-9	Z	.001	.001	0	%100
110	FFBH-9	Z	.001	.001	0	%100
111	SF6-BH	Z	.002	.002	0	%100
112	SF-7 BH	Z	.00049	.00049	0	%100
113	SF-6 V2	Z	.002	.002	0	%100
114	SF-6 V1	Z	.002	.002	0	%100
115	SF-7 V1	Z	.002	.002	0	%100
116	SF-7 V2	Z	.002	.002	0	%100
117	SF-6 D1	Z	.002	.002	0	%100
118	SF-6 D4	Z	.002	.002	0	%100
119	SF-7 D1	Z	.000928	.000928	0	%100
120	SF-7 D4	Z	.000928	.000928	0	%100
121	M78	Z	.003	.003	0	%100
122	TS-5	Z	.001	.001	0	%100
123	TS-6	Z	.001	.001	0	%100
124	SF-4 TH	Z	.001	.001	0	%100
125	SF-5 TH	Z	.002	.002	0	%100
126	FFTH-4	Z	.002	.002	0	%100
127	FFBH-4	Z	.002	.002	0	%100
128	FFTH-5	Z	.003	.003	0	%100
129	FFBH-5	Z	.003	.003	0	%100
130	FFTH-6	Z	.002	.002	0	%100

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,%]
131	FFBH-6	Z	.002	.002	0	%100
132	SF4-BH	Z	.001	.001	0	%100
133	SF5-BH	Z	.002	.002	0	%100
134	SF-4 V2	Z	.002	.002	0	%100
135	SF-4 V1	Z	.002	.002	0	%100
136	SF-5 V1	Z	.002	.002	0	%100
137	SF-5 V2	Z	.002	.002	0	%100
138	SF-4 D1	Z	.000928	.000928	0	%100
139	SF-4 D4	Z	.000928	.000928	0	%100
140	SF-5 D1	Z	.002	.002	0	%100
141	SF-5 D4	Z	.002	.002	0	%100
142	M118	Z	.003	.003	0	%100
143	TS-3	Z	.003	.003	0	%100
144	TS-4	Z	.003	.003	0	%100
145	SA-1	Z	.000258	.000258	0	%100
146	SA-3	Z	.002	.002	0	%100
147	SA-2	Z	.002	.002	0	%100
148	MP-10	Z	.002	.002	0	%100
149	MP-12	Z	.002	.002	0	%100
150	MP-11	Z	.002	.002	0	%100
151	MP-8	Z	.003	.003	0	%100
152	MP-7	Z	.003	.003	0	%100
153	MP-9	Z	.003	.003	0	%100
154	MP-5	Z	.003	.003	0	%100
155	MP-4	Z	.003	.003	0	%100
156	MP-6	Z	.003	.003	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	SF2-TH	X	0	0	0	%100
2	SF3-TH	X	-.002	-.002	0	%100
3	FFTH-1	X	-.001	-.001	0	%100
4	FFBH-1	X	-.001	-.001	0	%100
5	FFTH-2	X	-.002	-.002	0	%100
6	FFBH-2	X	-.002	-.002	0	%100
7	FFTH-3	X	-.001	-.001	0	%100
8	FFBH-3	X	-.001	-.001	0	%100
9	SF2-BH	X	0	0	0	%100
10	SF3-BH	X	-.002	-.002	0	%100
11	SF2-V2	X	-.001	-.001	0	%100
12	SF2-V1	X	-.001	-.001	0	%100
13	SF3-V1	X	-.001	-.001	0	%100
14	SF3-V2	X	-.001	-.001	0	%100
15	SF2-D1	X	-.000555	-.000555	0	%100
16	SF2-D4	X	-.000555	-.000555	0	%100
17	SF3-D1	X	-.000555	-.000555	0	%100
18	SF3-D4	X	-.000555	-.000555	0	%100
19	MP-2	X	-.002	-.002	0	%100
20	MP-1	X	-.002	-.002	0	%100
21	MP-3	X	-.002	-.002	0	%100
22	M39B	X	-.002	-.002	0	%100
23	TS-1	X	-.002	-.002	0	%100
24	TS-2	X	-.002	-.002	0	%100
25	SF6-TH	X	-.001	-.001	0	%100
26	SF-7 TH	X	-.000876	-.000876	0	%100
27	FFTH-7	X	-.000464	-.000464	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
28	FFBH-7	X	-.000464	-.000464	0	%100
29	FFTH-8	X	-.000477	-.000477	0	%100
30	FFBH-8	X	-.000477	-.000477	0	%100
31	FFTH-9	X	-.000464	-.000464	0	%100
32	FFBH-9	X	-.000464	-.000464	0	%100
33	SF6-BH	X	-.001	-.001	0	%100
34	SF-7 BH	X	-.000876	-.000876	0	%100
35	SF-6 V2	X	-.001	-.001	0	%100
36	SF-6 V1	X	-.001	-.001	0	%100
37	SF-7 V1	X	-.001	-.001	0	%100
38	SF-7 V2	X	-.001	-.001	0	%100
39	SF-6 D1	X	-.000885	-.000885	0	%100
40	SF-6 D4	X	-.000885	-.000885	0	%100
41	SF-7 D1	X	-.000283	-.000283	0	%100
42	SF-7 D4	X	-.000283	-.000283	0	%100
43	M78	X	-.002	-.002	0	%100
44	TS-5	X	-.000504	-.000504	0	%100
45	TS-6	X	-.000504	-.000504	0	%100
46	SF-4 TH	X	-.002	-.002	0	%100
47	SF-5 TH	X	-.000774	-.000774	0	%100
48	FFTH-4	X	-.002	-.002	0	%100
49	FFBH-4	X	-.002	-.002	0	%100
50	FFTH-5	X	-.002	-.002	0	%100
51	FFBH-5	X	-.002	-.002	0	%100
52	FFTH-6	X	-.002	-.002	0	%100
53	FFBH-6	X	-.002	-.002	0	%100
54	SF4-BH	X	-.002	-.002	0	%100
55	SF5-BH	X	-.000774	-.000774	0	%100
56	SF-4 V2	X	-.001	-.001	0	%100
57	SF-4 V1	X	-.001	-.001	0	%100
58	SF-5 V1	X	-.001	-.001	0	%100
59	SF-5 V2	X	-.001	-.001	0	%100
60	SF-4 D1	X	-.000283	-.000283	0	%100
61	SF-4 D4	X	-.000283	-.000283	0	%100
62	SF-5 D1	X	-.000885	-.000885	0	%100
63	SF-5 D4	X	-.000885	-.000885	0	%100
64	M118	X	-.002	-.002	0	%100
65	TS-3	X	-.002	-.002	0	%100
66	TS-4	X	-.002	-.002	0	%100
67	SA-1	X	-.000301	-.000301	0	%100
68	SA-3	X	-.001	-.001	0	%100
69	SA-2	X	-.002	-.002	0	%100
70	MP-10	X	-.002	-.002	0	%100
71	MP-12	X	-.002	-.002	0	%100
72	MP-11	X	-.002	-.002	0	%100
73	MP-8	X	-.002	-.002	0	%100
74	MP-7	X	-.002	-.002	0	%100
75	MP-9	X	-.002	-.002	0	%100
76	MP-5	X	-.002	-.002	0	%100
77	MP-4	X	-.002	-.002	0	%100
78	MP-6	X	-.002	-.002	0	%100
79	SF2-TH	Z	0	0	0	%100
80	SF3-TH	Z	.002	.002	0	%100
81	FFTH-1	Z	.001	.001	0	%100
82	FFBH-1	Z	.001	.001	0	%100
83	FFTH-2	Z	.001	.001	0	%100
84	FFBH-2	Z	.001	.001	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
85	FFTH-3	Z	.001	.001	0	%100
86	FFBH-3	Z	.001	.001	0	%100
87	SF2-BH	Z	0	0	0	%100
88	SF3-BH	Z	.002	.002	0	%100
89	SF2-V2	Z	.001	.001	0	%100
90	SF2-V1	Z	.001	.001	0	%100
91	SF3-V1	Z	.001	.001	0	%100
92	SF3-V2	Z	.001	.001	0	%100
93	SF2-D1	Z	.000639	.000639	0	%100
94	SF2-D4	Z	.000639	.000639	0	%100
95	SF3-D1	Z	.000639	.000639	0	%100
96	SF3-D4	Z	.000639	.000639	0	%100
97	MP-2	Z	.003	.003	0	%100
98	MP-1	Z	.003	.003	0	%100
99	MP-3	Z	.003	.003	0	%100
100	M39B	Z	.003	.003	0	%100
101	TS-1	Z	.002	.002	0	%100
102	TS-2	Z	.002	.002	0	%100
103	SF6-TH	Z	.002	.002	0	%100
104	SF-7 TH	Z	.000774	.000774	0	%100
105	FFTH-7	Z	.000508	.000508	0	%100
106	FFBH-7	Z	.000508	.000508	0	%100
107	FFTH-8	Z	.000533	.000533	0	%100
108	FFBH-8	Z	.000533	.000533	0	%100
109	FFTH-9	Z	.000508	.000508	0	%100
110	FFBH-9	Z	.000508	.000508	0	%100
111	SF6-BH	Z	.002	.002	0	%100
112	SF-7 BH	Z	.000774	.000774	0	%100
113	SF-6 V2	Z	.001	.001	0	%100
114	SF-6 V1	Z	.001	.001	0	%100
115	SF-7 V1	Z	.001	.001	0	%100
116	SF-7 V2	Z	.001	.001	0	%100
117	SF-6 D1	Z	.001	.001	0	%100
118	SF-6 D4	Z	.001	.001	0	%100
119	SF-7 D1	Z	.000303	.000303	0	%100
120	SF-7 D4	Z	.000303	.000303	0	%100
121	M78	Z	.003	.003	0	%100
122	TS-5	Z	.000583	.000583	0	%100
123	TS-6	Z	.000583	.000583	0	%100
124	SF-4 TH	Z	.001	.001	0	%100
125	SF-5 TH	Z	.000876	.000876	0	%100
126	FFTH-4	Z	.002	.002	0	%100
127	FFBH-4	Z	.002	.002	0	%100
128	FFTH-5	Z	.002	.002	0	%100
129	FFBH-5	Z	.002	.002	0	%100
130	FFTH-6	Z	.002	.002	0	%100
131	FFBH-6	Z	.002	.002	0	%100
132	SF4-BH	Z	.001	.001	0	%100
133	SF5-BH	Z	.000876	.000876	0	%100
134	SF-4 V2	Z	.001	.001	0	%100
135	SF-4 V1	Z	.001	.001	0	%100
136	SF-5 V1	Z	.001	.001	0	%100
137	SF-5 V2	Z	.001	.001	0	%100
138	SF-4 D1	Z	.000303	.000303	0	%100
139	SF-4 D4	Z	.000303	.000303	0	%100
140	SF-5 D1	Z	.001	.001	0	%100
141	SF-5 D4	Z	.001	.001	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

Apr 28, 2022
12:44 PM
Checked By: TWC

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
142	M118	Z	.003	.003	0	%100
143	TS-3	Z	.002	.002	0	%100
144	TS-4	Z	.002	.002	0	%100
145	SA-1	Z	.000276	.000276	0	%100
146	SA-3	Z	.002	.002	0	%100
147	SA-2	Z	.002	.002	0	%100
148	MP-10	Z	.002	.002	0	%100
149	MP-12	Z	.002	.002	0	%100
150	MP-11	Z	.002	.002	0	%100
151	MP-8	Z	.003	.003	0	%100
152	MP-7	Z	.003	.003	0	%100
153	MP-9	Z	.003	.003	0	%100
154	MP-5	Z	.003	.003	0	%100
155	MP-4	Z	.003	.003	0	%100
156	MP-6	Z	.003	.003	0	%100

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	SF2-TH	X	-.00053	-.00053	0	%100
2	SF3-TH	X	-.002	-.002	0	%100
3	FFTH-1	X	-.002	-.002	0	%100
4	FFBH-1	X	-.002	-.002	0	%100
5	FFTH-2	X	-.002	-.002	0	%100
6	FFBH-2	X	-.002	-.002	0	%100
7	FFTH-3	X	-.002	-.002	0	%100
8	FFBH-3	X	-.002	-.002	0	%100
9	SF2-BH	X	-.00053	-.00053	0	%100
10	SF3-BH	X	-.002	-.002	0	%100
11	SF2-V2	X	-.000931	-.000931	0	%100
12	SF2-V1	X	-.000931	-.000931	0	%100
13	SF3-V1	X	-.000931	-.000931	0	%100
14	SF3-V2	X	-.000931	-.000931	0	%100
15	SF2-D1	X	-.000173	-.000173	0	%100
16	SF2-D4	X	-.000173	-.000173	0	%100
17	SF3-D1	X	-.000173	-.000173	0	%100
18	SF3-D4	X	-.000173	-.000173	0	%100
19	MP-2	X	-.003	-.003	0	%100
20	MP-1	X	-.003	-.003	0	%100
21	MP-3	X	-.003	-.003	0	%100
22	M39B	X	-.003	-.003	0	%100
23	TS-1	X	-.003	-.003	0	%100
24	TS-2	X	-.003	-.003	0	%100
25	SF6-TH	X	-.001	-.001	0	%100
26	SF-7 TH	X	-.002	-.002	0	%100
27	FFTH-7	X	0	0	0	%100
28	FFBH-7	X	0	0	0	%100
29	FFTH-8	X	0	0	0	%100
30	FFBH-8	X	0	0	0	%100
31	FFTH-9	X	0	0	0	%100
32	FFBH-9	X	0	0	0	%100
33	SF6-BH	X	-.001	-.001	0	%100
34	SF-7 BH	X	-.002	-.002	0	%100
35	SF-6 V2	X	-.000931	-.000931	0	%100
36	SF-6 V1	X	-.000931	-.000931	0	%100
37	SF-7 V1	X	-.000931	-.000931	0	%100
38	SF-7 V2	X	-.000931	-.000931	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
39	SF-6 D1	X	-.000662	-.000662	0	%100
40	SF-6 D4	X	-.000662	-.000662	0	%100
41	SF-7 D1	X	-.000197	-.000197	0	%100
42	SF-7 D4	X	-.000197	-.000197	0	%100
43	M78	X	-.003	-.003	0	%100
44	TS-5	X	0	0	0	%100
45	TS-6	X	0	0	0	%100
46	SF-4 TH	X	-.002	-.002	0	%100
47	SF-5 TH	X	-.00049	-.00049	0	%100
48	FFTH-4	X	-.002	-.002	0	%100
49	FFBH-4	X	-.002	-.002	0	%100
50	FFTH-5	X	-.002	-.002	0	%100
51	FFBH-5	X	-.002	-.002	0	%100
52	FFTH-6	X	-.002	-.002	0	%100
53	FFBH-6	X	-.002	-.002	0	%100
54	SF4-BH	X	-.002	-.002	0	%100
55	SF5-BH	X	-.00049	-.00049	0	%100
56	SF-4 V2	X	-.000931	-.000931	0	%100
57	SF-4 V1	X	-.000931	-.000931	0	%100
58	SF-5 V1	X	-.000931	-.000931	0	%100
59	SF-5 V2	X	-.000931	-.000931	0	%100
60	SF-4 D1	X	-.000197	-.000197	0	%100
61	SF-4 D4	X	-.000197	-.000197	0	%100
62	SF-5 D1	X	-.000662	-.000662	0	%100
63	SF-5 D4	X	-.000662	-.000662	0	%100
64	M118	X	-.003	-.003	0	%100
65	TS-3	X	-.002	-.002	0	%100
66	TS-4	X	-.002	-.002	0	%100
67	SA-1	X	-.000993	-.000993	0	%100
68	SA-3	X	-.001	-.001	0	%100
69	SA-2	X	-.003	-.003	0	%100
70	MP-10	X	-.002	-.002	0	%100
71	MP-12	X	-.002	-.002	0	%100
72	MP-11	X	-.002	-.002	0	%100
73	MP-8	X	-.003	-.003	0	%100
74	MP-7	X	-.003	-.003	0	%100
75	MP-9	X	-.003	-.003	0	%100
76	MP-5	X	-.003	-.003	0	%100
77	MP-4	X	-.003	-.003	0	%100
78	MP-6	X	-.003	-.003	0	%100
79	SF2-TH	Z	.000306	.000306	0	%100
80	SF3-TH	Z	.001	.001	0	%100
81	FFTH-1	Z	.001	.001	0	%100
82	FFBH-1	Z	.001	.001	0	%100
83	FFTH-2	Z	.001	.001	0	%100
84	FFBH-2	Z	.001	.001	0	%100
85	FFTH-3	Z	.001	.001	0	%100
86	FFBH-3	Z	.001	.001	0	%100
87	SF2-BH	Z	.000306	.000306	0	%100
88	SF3-BH	Z	.001	.001	0	%100
89	SF2-V2	Z	.000649	.000649	0	%100
90	SF2-V1	Z	.000649	.000649	0	%100
91	SF3-V1	Z	.000649	.000649	0	%100
92	SF3-V2	Z	.000649	.000649	0	%100
93	SF2-D1	Z	.000115	.000115	0	%100
94	SF2-D4	Z	.000115	.000115	0	%100
95	SF3-D1	Z	.000115	.000115	0	%100

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

Apr 28, 2022
12:44 PM
Checked By: TWC

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
96	SF3-D4	Z	.000115	.000115	0	%100
97	MP-2	Z	.002	.002	0	%100
98	MP-1	Z	.002	.002	0	%100
99	MP-3	Z	.002	.002	0	%100
100	M39B	Z	.002	.002	0	%100
101	TS-1	Z	.001	.001	0	%100
102	TS-2	Z	.001	.001	0	%100
103	SF6-TH	Z	.000876	.000876	0	%100
104	SF-7 TH	Z	.000774	.000774	0	%100
105	FFTH-7	Z	0	0	0	%100
106	FFBH-7	Z	0	0	0	%100
107	FFTH-8	Z	0	0	0	%100
108	FFBH-8	Z	0	0	0	%100
109	FFTH-9	Z	0	0	0	%100
110	FFBH-9	Z	0	0	0	%100
111	SF6-BH	Z	.000876	.000876	0	%100
112	SF-7 BH	Z	.000774	.000774	0	%100
113	SF-6 V2	Z	.000649	.000649	0	%100
114	SF-6 V1	Z	.000649	.000649	0	%100
115	SF-7 V1	Z	.000649	.000649	0	%100
116	SF-7 V2	Z	.000649	.000649	0	%100
117	SF-6 D1	Z	.000485	.000485	0	%100
118	SF-6 D4	Z	.000485	.000485	0	%100
119	SF-7 D1	Z	.000122	.000122	0	%100
120	SF-7 D4	Z	.000122	.000122	0	%100
121	M78	Z	.002	.002	0	%100
122	TS-5	Z	0	0	0	%100
123	TS-6	Z	0	0	0	%100
124	SF-4 TH	Z	.001	.001	0	%100
125	SF-5 TH	Z	.000321	.000321	0	%100
126	FFTH-4	Z	.001	.001	0	%100
127	FFBH-4	Z	.001	.001	0	%100
128	FFTH-5	Z	.001	.001	0	%100
129	FFBH-5	Z	.001	.001	0	%100
130	FFTH-6	Z	.001	.001	0	%100
131	FFBH-6	Z	.001	.001	0	%100
132	SF4-BH	Z	.001	.001	0	%100
133	SF5-BH	Z	.000321	.000321	0	%100
134	SF-4 V2	Z	.000649	.000649	0	%100
135	SF-4 V1	Z	.000649	.000649	0	%100
136	SF-5 V1	Z	.000649	.000649	0	%100
137	SF-5 V2	Z	.000649	.000649	0	%100
138	SF-4 D1	Z	.000122	.000122	0	%100
139	SF-4 D4	Z	.000122	.000122	0	%100
140	SF-5 D1	Z	.000485	.000485	0	%100
141	SF-5 D4	Z	.000485	.000485	0	%100
142	M118	Z	.002	.002	0	%100
143	TS-3	Z	.001	.001	0	%100
144	TS-4	Z	.001	.001	0	%100
145	SA-1	Z	.000526	.000526	0	%100
146	SA-3	Z	.000919	.000919	0	%100
147	SA-2	Z	.001	.001	0	%100
148	MP-10	Z	.001	.001	0	%100
149	MP-12	Z	.001	.001	0	%100
150	MP-11	Z	.001	.001	0	%100
151	MP-8	Z	.002	.002	0	%100
152	MP-7	Z	.002	.002	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
153	MP-9	Z	.002	.002	0	%100
154	MP-5	Z	.002	.002	0	%100
155	MP-4	Z	.002	.002	0	%100
156	MP-6	Z	.002	.002	0	%100

Member Area Loads

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

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	N55	max	3.112	34	1.416	39	.261	4	0	98	0	98	0	98
2		min	.384	10	.449	15	-2.511	61	0	1	0	1	0	1
3	N56	max	1.562	2	1.426	47	2.439	56	0	98	0	98	0	98
4		min	-3.982	26	.452	7	-.362	15	0	1	0	1	0	1
5	N55A	max	.047	11	0	3	.018	24	0	98	0	98	0	98
6		min	-.113	19	-.021	60	-.018	12	0	1	0	1	0	1
7	N56A	max	.193	27	0	4	.018	24	0	98	0	98	0	98
8		min	-.082	3	-.021	61	-.018	12	0	1	0	1	0	1
9	N106	max	-.306	3	1.426	34	.021	6	0	98	0	98	0	98
10		min	-2.459	42	.453	10	-2.286	45	0	1	0	1	0	1
11	N107	max	2.781	21	1.436	42	3.085	21	0	98	0	98	0	98
12		min	-.939	13	.456	2	-1.355	13	0	1	0	1	0	1
13	N108	max	.072	30	0	14	.093	30	0	98	0	98	0	98
14		min	-.039	6	-.007	37	-.035	6	0	1	0	1	0	1
15	N109	max	.056	14	0	14	.066	14	0	98	0	98	0	98
16		min	-.112	22	-.007	42	-.162	22	0	1	0	1	0	1
17	N161	max	.493	17	1.385	45	3.158	39	0	98	0	98	0	98
18		min	-.912	25	.435	5	.423	14	0	1	0	1	0	1
19	N162	max	1.2	32	1.396	37	1.498	7	0	98	0	98	0	98
20		min	-.78	8	.438	13	-3.957	31	0	1	0	1	0	1
21	N163	max	.05	24	0	8	.046	17	0	98	0	98	0	98
22		min	-.019	16	-.006	49	-.1	25	0	1	0	1	0	1
23	N164	max	.043	7	0	9	.172	32	0	98	0	98	0	98
24		min	-.097	31	-.007	34	-.078	8	0	1	0	1	0	1
25	Totals:	max	5.974	2	8.332	34	6.571	22						
26		min	-5.974	26	2.926	90	-6.571	14						

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc ...	phi*Pnt [...	phi*Mn ...	phi*Mn ...	Cb	Eqn
1	SF2-D4	3/4" SR	.527	0	59	.023	4.167		18	3.322	14.314	.179	.179	2...	H1-1a
2	TS-2	PIPE 2.5	.522	.802	44	.216	1.458		34	33.962	50.715	3.596	3.596	3...	H1-1b
3	TS-6	PIPE 2.5	.519	.802	39	.218	1.458		45	33.962	50.715	3.596	3.596	3...	H1-1b
4	TS-4	PIPE 2.5	.512	.802	34	.212	1.458		39	33.962	50.715	3.596	3.596	3...	H1-1b
5	TS-1	PIPE 2.5	.485	.802	42	.248	1.458		26	33.962	50.715	3.596	3.596	3...	H1-1b
6	TS-5	PIPE 2.5	.469	.802	37	.254	1.458		21	33.962	50.715	3.596	3.596	3...	H1-1b
7	TS-3	PIPE 2.5	.455	.802	47	.250	1.458		31	33.962	50.715	3.596	3.596	3...	H1-1b
8	MP-1	PIPE_2.0 N...	.420	3.333	54	.083	3.333		19	18.904	33.863	1.998	1.998	2...	H1-1b
9	SF-4 D4	3/4" SR	.408	0	45	.024	4.167		23	3.322	14.314	.179	.179	2...	H1-1a
10	SF-6 D4	3/4" SR	.404	0	37	.025	4.167		29	3.322	14.314	.179	.179	2...	H1-1a
11	SF-7 D4	3/4" SR	.394	0	34	.017	4.167		28	3.322	14.314	.179	.179	2...	H1-1a
12	SF3-D4	3/4" SR	.386	0	39	.016	0		31	3.322	14.314	.179	.179	2...	H1-1a

Company : Tower Engineering Professionals
Designer : GJS
Job Number : TEP No. 217616.688940
Model Name : Milford (BU 842870)

Apr 28, 2022
12:44 PM
Checked By: TWC

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc ...	phi*Pnt [...	phi*Mn ...	phi*Mn ...	Cb	Eqn
13	FFTH-1	PIPE_2.5 N...	.366	3.792	18	.058	3.792		25	31.898	53.676	3.812	3.812	1...	H1-1b
14	FFTH-2	PIPE_2.5 N...	.365	0	18	.052	4.917		19	44.015	53.676	3.812	3.812	1...	H1-1b
15	SF-5 D4	3/4" SR	.365	0	46	.018	4.167		22	3.322	14.314	.179	.179	2...	H1-1a
16	FFTH-7	PIPE_2.5 N...	.365	3.792	29	.057	3.792		19	31.898	53.676	3.812	3.812	1...	H1-1b
17	FFTH-8	PIPE_2.5 N...	.364	0	29	.052	4.917		30	44.015	53.676	3.812	3.812	1...	H1-1b
18	FFTH-4	PIPE_2.5 N...	.363	3.792	23	.057	3.792		30	31.898	53.676	3.812	3.812	1...	H1-1b
19	FFTH-5	PIPE_2.5 N...	.363	0	23	.044	0		30	44.015	53.676	3.812	3.812	1...	H1-1b
20	SF-7 TH	PIPE_2.0 N...	.361	0	21	.048	0		21	31.436	33.863	1.998	1.998	2...	H1-1b
21	SF-5 TH	PIPE_2.0 N...	.357	0	31	.046	0		32	31.436	33.863	1.998	1.998	2...	H1-1b
22	SF2-BH	PIPE_2.0 N...	.355	2.5	60	.088	2.5		55	31.436	33.863	1.998	1.998	2...	H1-1b
23	SF2-TH	PIPE_2.0 N...	.354	2.5	60	.093	.417		23	31.436	33.863	1.998	1.998	2.2	H1-1b
24	SF3-TH	PIPE_2.0 N...	.350	0	26	.046	2.5		27	31.436	33.863	1.998	1.998	2...	H1-1b
25	FFTH-3	PIPE_2.5 N...	.346	0	18	.099	0		19	31.898	53.676	3.812	3.812	2...	H1-1b
26	FFTH-9	PIPE_2.5 N...	.346	0	29	.101	0		30	31.898	53.676	3.812	3.812	2...	H1-1b
27	FFTH-6	PIPE_2.5 N...	.326	0	24	.089	0		25	31.898	53.676	3.812	3.812	2...	H1-1b
28	MP-4	PIPE_2.0 N...	.321	3.333	42	.082	3.333		25	18.904	33.863	1.998	1.998	4...	H1-1b
29	MP-7	PIPE_2.0 N...	.318	3.333	47	.083	3.333		30	18.904	33.863	1.998	1.998	4...	H1-1b
30	FFBH-1	PIPE_2.5 N...	.292	3.792	60	.051	3.792		25	31.898	53.676	3.812	3.812	2...	H1-1b
31	FFBH-4	PIPE_2.5 N...	.284	3.792	31	.050	3.792		30	31.898	53.676	3.812	3.812	2...	H1-1b
32	FFBH-7	PIPE_2.5 N...	.284	3.792	21	.050	3.792		19	31.898	53.676	3.812	3.812	2...	H1-1b
33	FFBH-9	PIPE_2.5 N...	.282	0	29	.066	0		30	31.898	53.676	3.812	3.812	2...	H1-1b
34	FFBH-3	PIPE_2.5 N...	.282	0	18	.066	0		19	31.898	53.676	3.812	3.812	2...	H1-1b
35	FFBH-6	PIPE_2.5 N...	.274	0	24	.060	0		25	31.898	53.676	3.812	3.812	2...	H1-1b
36	FFBH-2	PIPE_2.5 N...	.273	0	26	.058	4.917		19	44.015	53.676	3.812	3.812	1...	H1-1b
37	FFBH-5	PIPE_2.5 N...	.270	0	31	.052	4.917		25	44.015	53.676	3.812	3.812	1...	H1-1b
38	FFBH-8	PIPE_2.5 N...	.270	0	21	.059	4.917		30	44.015	53.676	3.812	3.812	1...	H1-1b
39	MP-3	PIPE_2.0 N...	.260	3.333	45	.073	3.333		27	18.904	33.863	1.998	1.998	2...	H1-1b
40	SF5-BH	PIPE_2.0 N...	.260	0	22	.036	2.5		38	31.436	33.863	1.998	1.998	2.2	H1-1b
41	MP-9	PIPE_2.0 N...	.260	3.333	39	.073	3.333		22	18.904	33.863	1.998	1.998	4...	H1-1b
42	SF-4 TH	PIPE_2.0 N...	.259	.417	29	.095	.417		29	31.436	33.863	1.998	1.998	1...	H1-1b
43	SF6-TH	PIPE_2.0 N...	.250	2.5	21	.088	.417		18	31.436	33.863	1.998	1.998	2...	H1-1b
44	SF-7 BH	PIPE_2.0 N...	.249	0	27	.039	2.5		42	31.436	33.863	1.998	1.998	2...	H1-1b
45	SF3-BH	PIPE_2.0 N...	.248	0	33	.040	2.5		66	31.436	33.863	1.998	1.998	2...	H1-1b
46	MP-6	PIPE_2.0 N...	.240	3.333	34	.063	3.333		33	18.904	33.863	1.998	1.998	4...	H1-1b
47	SF4-BH	PIPE_2.0 N...	.240	2.5	34	.065	2.5		42	31.436	33.863	1.998	1.998	2...	H1-1b
48	SF6-BH	PIPE_2.0 N...	.238	2.5	37	.069	2.5		34	31.436	33.863	1.998	1.998	2...	H1-1b
49	MP-8	PIPE_2.0 N...	.221	3.333	30	.059	3.333		30	18.904	33.863	1.998	1.998	3...	H1-1b
50	MP-2	PIPE_2.0 N...	.218	3.333	19	.059	3.333		20	18.904	33.863	1.998	1.998	2...	H1-1b
51	MP-5	PIPE_2.0 N...	.202	3.333	25	.055	3.333		25	18.904	33.863	1.998	1.998	3...	H1-1b
52	M78	PIPE 4.0	.185	1.5	37	.209	1.5		34	85.131	93.24	10.631	10.631	2...	H1-1b
53	M118	PIPE 4.0	.172	1.5	47	.208	1.5		30	85.131	93.24	10.631	10.631	1...	H1-1b
54	M39B	PIPE 4.0	.168	1.5	60	.211	1.5		42	85.131	93.24	10.631	10.631	1...	H1-1b
55	SF-7 V1	5/8" SR	.152	0	22	.013	0		34	2.503	9.94	.104	.104	2...	H1-1b
56	SF-4 V1	5/8" SR	.146	0	30	.015	0		29	2.503	9.94	.104	.104	2...	H1-1b
57	SF-5 D1	3/4" SR	.144	0	30	.021	0		21	3.322	14.314	.179	.179	1...	H1-1b
58	SF-5 V1	5/8" SR	.144	0	31	.015	0		29	2.503	9.94	.104	.104	2...	H1-1b
59	SF-7 V2	5/8" SR	.137	3.333	30	.016	0		22	2.503	9.94	.104	.104	2...	H1-1b
60	SF-6 V1	5/8" SR	.131	3.333	4	.012	0		34	2.503	9.94	.104	.104	2...	H1-1b*
61	SF2-V1	5/8" SR	.131	3.333	10	.015	0		23	2.503	9.94	.104	.104	1...	H1-1b*
62	SF3-V1	5/8" SR	.129	3.333	11	.015	0		23	2.503	9.94	.104	.104	2...	H1-1b*
63	SF2-D1	3/4" SR	.128	4.167	63	.020	4.167		31	3.322	14.314	.179	.179	2...	H1-1b
64	SF-7 D1	3/4" SR	.127	0	19	.019	0		26	3.322	14.314	.179	.179	1...	H1-1b
65	SF-4 D1	3/4" SR	.127	4.167	37	.021	4.167		21	3.322	14.314	.179	.179	2...	H1-1b
66	SF3-D1	3/4" SR	.126	4.167	36	.020	0		31	3.322	14.314	.179	.179	2...	H1-1b
67	SF-6 D1	3/4" SR	.124	4.167	42	.019	4.167		27	3.322	14.314	.179	.179	2...	H1-1b
68	SF-6 V2	5/8" SR	.121	0	30	.022	0		22	2.503	9.94	.104	.104	2...	H1-1b
69	SF2-V2	5/8" SR	.120	0	22	.020	0		27	2.503	9.94	.104	.104	2...	H1-1b

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc ...	phi*Pnt [...	phi*Mn ...	phi*Mn ...	Cb	Eqn
70	SF-4 V2	5/8" SR	.110	3.333	22	.019	0		33	2.503	9.94	.104	.104	2...	H1-1b
71	SF-5 V2	5/8" SR	.108	3.333	23	.014	0		32	2.503	9.94	.104	.104	2...	H1-1b
72	SF3-V2	5/8" SR	.108	0	30	.014	0		27	2.503	9.94	.104	.104	2...	H1-1b
73	MP-10	PIPE_2.0 N...	.067	4.479	23	.030	1.198		19	18.904	33.863	1.998	1.998	1...	H1-1b
74	MP-11	PIPE_2.0 N...	.066	4.479	29	.028	1.198		25	18.904	33.863	1.998	1.998	1...	H1-1b
75	MP-12	PIPE_2.0 N...	.065	4.479	34	.031	1.198		30	18.904	33.863	1.998	1.998	1...	H1-1b
76	SA-1	PIPE_2.0 N...	.056	3.36	28	.033	6.72		27	19.788	33.863	1.998	1.998	1...	H1-1b
77	SA-3	PIPE_2.0 N...	.056	3.36	22	.033	6.72		22	19.788	33.863	1.998	1.998	1...	H1-1b
78	SA-2	PIPE_2.0 N...	.054	3.36	33	.030	0		32	19.788	33.863	1.998	1.998	1...	H1-1b

APPENDIX D

ADDITIONAL CALCULATIONS

AT&T TARP Mount Program Spec Sheet

Site: Milford (BU 842870)

TARP Mount Specification

Basic Wind Speed (MPH)	Radial Ice (in.)	Height (ft.)	Exposure Category	Risk Category	Topo Category	Number of Loaded Mount Pipes / Sector	Allowable[1] EPA / Pipe (ft^2)	Allowable[1] Weight / Pipe (lbf)
120	*1*	*141.0*	*C*	*II*	*1*	*3*	*13.8*	*268.6*

Notes:
1) This allowable value is an average of the loaded mount pipes per sector

Date: **May 09, 2022**

Black & Veatch Corp.
11401 Lamar Avenue
Overland Park, KS 66211
(913) 458-6909

Subject:	**Structural Analysis Report**	
Carrier Designation:	***AT&T Mobility* Co-Locate**	
	Site Number:	CT5099
	Site Name:	MILFORD
	Site FA#:	10071130
Crown Castle Designation:	**BU Number:**	842870
	Site Name:	MILFORD
	JDE Job Number:	649398
	Work Order Number:	2105757
	Order Number:	556511 Rev. 0
Engineering Firm Designation:	**Black & Veatch Corp. Project Number:**	2105757
Site Data:	**434 Boston Post Road, Milford, New Haven County, CT**	
	Latitude *41° 13' 42.69"*, Longitude *-73° 4' 12.47"*	
	150 Foot - Self Support Tower	

Black & Veatch Corp. 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:

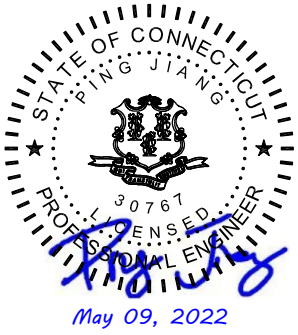
LC7: Proposed Equipment Configuration **Sufficient Capacity – 87.4%**

This analysis utilizes an ultimate 3-second gust wind speed of 120 mph as permitted by the 2018 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Nathida Thanamanosarn / Preechaya Sirisuwan

Respectfully submitted by:

Ping Jiang, P.E.
Professional Engineer



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1) INTRODUCTION

This tower is a 150 ft Self Support tower designed by PiRod Inc.

The tower has been modified per reinforcement drawings prepared by GPD Associates in March of 2012. Reinforcement consists of replacing existing diagonals from 80' to 100'. Refer to Post Installation Observation Report by GPD Associates in October of 2012. This modification has been considered effective in this analysis.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	120 mph
Exposure Category:	C
Topographic Factor:	1
Ice Thickness:	1.5 in
Wind Speed with Ice:	50 mph
Seismic Ss:	0.195
Seismic S1:	0.063
Service Wind Speed:	60 mph
Seismic Loading:	Does not control per engineering judgment

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)
144.0	144.0	3	ericsson	RRUS 32 B2	-	-
		1	raycap	DC6-48-60-18-8F		
141.0	144.0	3	ericsson	RRUS 32 B30	3 12 6 1 1	3/8 1-5/8 13/16 7/8 Conduit
		3	ericsson	RRUS 4478 B14		
		1	raycap	DC6-48-60-18-8F		
	143.0	3	ericsson	AIR 6419 B77G_CCIV3		
	141.0	3	cci antennas	DMP65R-BU4D		
		1	cci tower mounts (v2.1)	Pipe Mount [PM 601-3]		
		1	cci tower mounts (v2.1)	Sector Mount [SM 503-3]		
		2	commscope	WCS-IMFQ-AMT		
		3	ericsson	RRUS 4426 B66		
		3	ericsson	RRUS 4449 B5/B12		
		3	quintel technology	QD4616-7		
		1	raycap	DC9-48-60-24-8C-EV_CCIV2		
	139.0	3	ericsson	AIR 6449 B77D_CCVI2		

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)
150.0	150.0	1	cci tower mounts (v2.1)	Platform Mount [LP 405-1]	6 1	5/8 3/8
		2	radiowaves	HPLPD1-18		
		2	sinclair	SC226-SFXSNM		
130.0	130.0	2	cci tower mounts (v2.1)	Side Arm Mount [SO 301-1]	2	7/8
		2	terrawave	M5160160P10006		
118.0	128.0	1	sinclair	SC229-SFXLDF	2	7/8
		1	sinclair	SC320		
	118.0	2	cci tower mounts (v2.1)	Side Arm Mount [SO 306-1]		
114.0	114.0	1	cci tower mounts (v2.1)	Sector Mount [SM 307-3]	9 2	1-5/8 1-3/8
		3	ericsson	AIR6449 B41 w/ Mount Pipe		
		3	ericsson	RADIO 4449 B71 B85A_ T-MOBILE		
		3	ericsson	RRUS 4415 B25_CCIV2		
	112.0	3	ericsson	AIR 32 B2A/B66AA w/ Mount Pipe		
		3	ericsson	ERICSSON AIR 21 B2A B4P w/ Mount Pipe		
		3	ericsson	KRY 112 71		
		3	rfs celwave	APXVAARR24_43-U-NA20 w/ Mount Pipe		
103.0	103.0	1	cci tower mounts (v2.1)	Pipe Mount [PM 601-3]	-	-
	100.0	3	alcatel lucent	800MHZ 2X50W RRH W/FILTER		
		3	alcatel lucent	PCS 1900MHZ 2X40W		
100.0	103.0	3	alcatel lucent	TD-RRH8X20-25	3 1	1-1/4 7/8
	100.0	1	cci tower mounts (v2.1)	Sector Mount [SM 406-3]		
		3	commscope	DT465B-2XR w/ Mount Pipe		
		3	rfs celwave	APXVSPP18-C-A20 w/ Mount Pipe		
	97.0	3	alcatel lucent	RRH2X50-800		
88.0	90.0	6	antel	LPA-80063/4CF w/ Mount Pipe	13	1-5/8
		6	jma wireless	MX06FRO660-03 w/ Mount Pipe		
		1	raycap	RVZDC-6627-PF-48_CCIV2		
		3	samsung telecommunications	MT6407-77A w/ Mount Pipe		
		3	samsung telecommunications	RFV01U-D1A		
		3	samsung telecommunications	RFV01U-D2A		
	88.0	1	cci tower mounts	Pipe Mount [PM 601-3]		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
			(v2.1)			
		1	cci tower mounts (v2.1)	Sector Mount [SM 408-3]		
65.0	65.0	3	rfs celwave	APXV18-206517S-C w/ Mount Pipe	6	1-5/8
50.0	50.0	1	pctel	GPS-TMG-HR-26NCM	1	1/2

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
4-GEOTECHNICAL REPORTS	5359323	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	4480652	CCISITES
4-TOWER MANUFACTURER DRAWINGS	4480661	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	4713244	CCISITES
4-POST-MODIFICATION INSPECTION	4713239	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.

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. Black & Veatch Corp. should be notified to determine the effect on the structural integrity of the tower

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary) (Self Support Tower)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
T1	150 - 147.583	Leg	1 1/2	2	-2.326	53.917	4.3	Pass
T2	147.583 - 130	Leg	1 1/2	13	-30.485	53.917	56.5	Pass
T3	130 - 110	Leg	2	72	-76.707	117.290	65.4	Pass
T4	110 - 100	Leg	Pirod 105244	136	-82.255	149.618	55.0	Pass
T5	100 - 80	Leg	Pirod 105216	148	-130.094	149.618	87.0	Pass
T6	80 - 60	Leg	Pirod 105217	166	-175.846	225.602	77.9	Pass
T7	60 - 40	Leg	Pirod 105218	184	-215.810	315.715	68.4	Pass
T8	40 - 20	Leg	Pirod 105218	199	-253.879	315.715	80.4	Pass
T9	20 - 0	Leg	Pirod 105219	214	-289.142	419.861	68.9	Pass
T1	150 - 147.583	Diagonal	3/4	7	-2.445	5.577	43.8	Pass
T2	147.583 - 130	Diagonal	3/4	23	-4.479	5.123	87.4	Pass
T3	130 - 110	Diagonal	7/8	80	-5.862	8.211	71.4	Pass
T4	110 - 100	Diagonal	L2 1/2x2 1/2x3/16	144	-10.536	18.455	57.1	Pass
T5	100 - 80	Diagonal	L2 1/2x2 1/2x3/8	156	-9.571	26.646	35.9	Pass
T6	80 - 60	Diagonal	L3x3x3/16	171	-8.397	20.182	41.6	Pass
T7	60 - 40	Diagonal	L3x3x3/16	186	-8.273	16.112	51.3	Pass
T8	40 - 20	Diagonal	L3x3x5/16	201	-8.918	20.744	43.0	Pass
T9	20 - 0	Diagonal	L3x3x5/16	215	-10.512	17.119	61.4	Pass
T2	147.583 - 130	Horizontal	7/8	28	-0.572	5.216	11.0	Pass
T3	130 - 110	Horizontal	7/8	85	-1.383	4.270	32.4	Pass
T1	150 - 147.583	Top Girt	5x1/2	4	-1.604	10.158	15.8	Pass
T2	147.583 - 130	Top Girt	7/8	18	-0.579	6.213	9.3	Pass
T3	130 - 110	Top Girt	1	74	-1.679	8.738	19.2	Pass
T4	110 - 100	Top Girt	L3x3x3/16	138	-1.426	28.645	5.0	Pass
T5	100 - 80	Top Girt	L3x3x3/16	149	5.839	30.113	19.4	Pass
T6	80 - 60	Top Girt	L3x3x3/16	167	-4.882	18.645	26.2	Pass
T2	147.583 - 130	Bottom Girt	7/8	19	-1.555	5.073	30.7	Pass
T3	130 - 110	Bottom Girt	1	76	-2.140	7.107	30.1	Pass
							Summary	
						Leg (T5)	87.0	Pass
						Diagonal (T2)	87.4	Pass
						Horizontal (T3)	32.4	Pass
						Top Girt (T6)	26.2	Pass
						Bottom Girt (T2)	30.7	Pass
						Bolt Checks	79.8	Pass
						Rating =	87.4	Pass

Table 5 - Tower Component Stresses vs. Capacity (Self Support Tower)

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	0	45.8	Pass
1	Base Foundation (Structure)	0	15.3	Pass
	Base Foundation (Soil Interaction)		40.1	Pass

Structure Rating (max from all components) =	87.4%

Notes:
1) See additional documentation in “Appendix C – Additional Calculations” for calculations supporting the % capacity Rating per TIA-222-H Section 15.5.

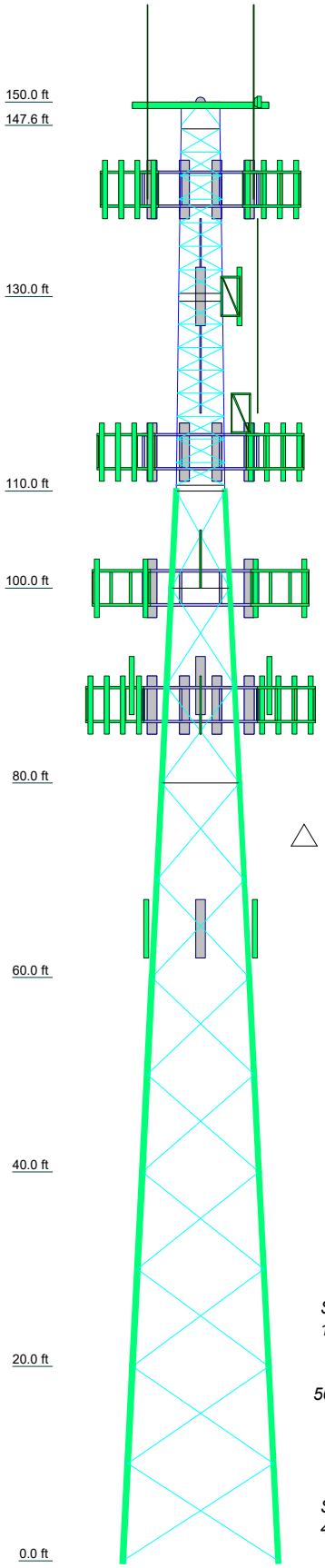
4.1) Recommendations

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

Section	T1	T2	T3	T4	T5	T6	T7	T8	T9		
Legs	SR 1 1/2	SR 2	SR 7/8	Pirod 105244	Pirod 105216	Pirod 105217	Pirod 105218		Pirod 105219		
Leg Grade	A572-50										
Diagonals	SR 3/4			A	L2 1/2x2 1/2x3/8	L3x3x3/16			L3x3x5/16		
Diagonal Grade	A572-50					A36					
Top Girts	SR 7/8	SR 1		L3x3x3/16				N.A.			
Bottom Girts	SR 7/8	SR 1				N.A.					
Horizontals	SR 7/8					N.A.					
Face Width (ft)	4	4.5		5	6	8	10	12	14	16	
# Panels @ (ft)	8 @ 2.41667	8 @ 2.36458				11 @ 10					
Weight (K)	0.2	0.7	1.3	1.1	2.5	2.6	3.0	3.5	4.2	19.1	



SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	L2 1/2x2 1/2x3/16	C	N.A.
B	5x1/2		

MATERIAL STRENGTH

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

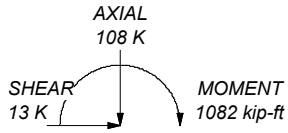
TOWER DESIGN NOTES

1. Tower is located in New Haven County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 120 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.000 ft
8. TOWER RATING: 87.4%

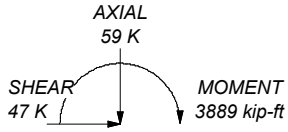
ALL REACTIONS ARE FACTORED

MAX. CORNER REACTIONS AT BASE:
DOWN: 300 K
SHEAR: 31 K

UPLIFT: -262 K
SHEAR: 28 K



TORQUE 5 kip-ft
50 mph WIND - 1.000 in ICE



TORQUE 21 kip-ft
REACTIONS - 120 mph WIND

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Overland Park, KS 66211
Phone: (913) 458-6909
FAX:

Job: ***MILFORD (BU# 842870)***			
Project: ***406642 (842870.2105757)***			
Client: Crown Castle	Drawn by: Preechaya Sirisuwan	App'd:	
Code: TIA-222-H	Date: 05/09/22	Scale: NTS	
Path: C:\Users\sir94358\Desktop\842870\842870.2105757 - TSA\Structural\VER\842870.2105757 Structural Analysis.eri		Dwg No. E-1	

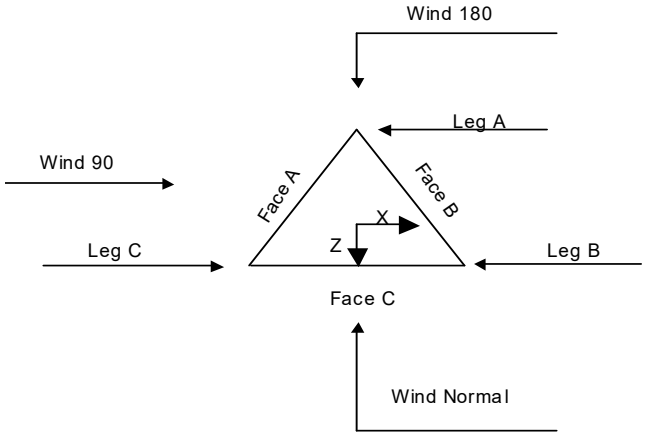
Tower Input Data

The main tower is a 3x free standing tower with an overall height of 150.000 ft above the ground line.
The base of the tower is set at an elevation of 0.000 ft above the ground line.
The face width of the tower is 4.000 ft at the top and 16.000 ft at the base.
This tower is designed using the TIA-222-H standard.
The following design criteria apply:

- Tower is located in New Haven County, Connecticut.
- Tower base elevation above sea level: 68.000 ft.
- Basic wind speed of 120 mph.
- Risk Category II.
- Exposure Category C.
- Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- Topographic Category: 1.
- Crest Height: 0.000 ft.
- Nominal ice thickness of 1.000 in.
- Ice thickness is considered to increase with height.
- Ice density of 56.000 pcf.
- A wind speed of 50 mph is used in combination with ice.
- Temperature drop of 50.000 °F.
- Deflections calculated using a wind speed of 60 mph.
- Pressures are calculated at each section.
- Stress ratio used in tower member design is 1.
- Tower analysis based on target reliabilities in accordance with Annex S.
- Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
- Maximum demand-capacity ratio is: 1.05.
- Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

	Consider Moments - Legs		Distribute Leg Loads As Uniform		Use ASCE 10 X-Brace Ly Rules
	Consider Moments - Horizontals		Assume Legs Pinned	√	Calculate Redundant Bracing Forces
	Consider Moments - Diagonals	√	Assume Rigid Index Plate		Ignore Redundant Members in FEA
	Use Moment Magnification	√	Use Clear Spans For Wind Area	√	SR Leg Bolts Resist Compression
√	Use Code Stress Ratios	√	Use Clear Spans For KL/r		All Leg Panels Have Same Allowable
√	Use Code Safety Factors - Guys		Retension Guys To Initial Tension		Offset Girt At Foundation
	Escalate Ice	√	Bypass Mast Stability Checks	√	Consider Feed Line Torque
	Always Use Max Kz	√	Use Azimuth Dish Coefficients	√	Include Angle Block Shear Check
	Use Special Wind Profile	√	Project Wind Area of Appurt.		Use TIA-222-H Bracing Resist. Exemption
	Include Bolts In Member Capacity		Autocalc Torque Arm Areas		Use TIA-222-H Tension Splice Exemption
	Leg Bolts Are At Top Of Section		Add IBC .6D+W Combination		Poles
√	Secondary Horizontal Braces Leg	√	Sort Capacity Reports By Component		Include Shear-Torsion Interaction
	Use Diamond Inner Bracing (4 Sided)		Triangulate Diamond Inner Bracing		Always Use Sub-Critical Flow
√	SR Members Have Cut Ends		Treat Feed Line Bundles As Cylinder		Use Top Mounted Sockets
	SR Members Are Concentric		Ignore KL/ry For 60 Deg. Angle Legs		Pole Without Linear Attachments
					Pole With Shroud Or No Appurtenances
					Outside and Inside Corner Radii Are Known



Triangular Tower

Tower Section Geometry

Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections	Section Length
	ft			ft		ft
T1	150.000-147.583			4.000	1	2.417
T2	147.583-130.000			4.063	1	17.583
T3	130.000-110.000			4.500	1	20.000
T4	110.000-100.000			5.000	1	10.000
T5	100.000-80.000			6.000	1	20.000
T6	80.000-60.000			8.000	1	20.000
T7	60.000-40.000			10.000	1	20.000
T8	40.000-20.000			12.000	1	20.000
T9	20.000-0.000			14.000	1	20.000

Tower Section Geometry *(cont'd)*

Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset	Bottom Girt Offset
	ft	ft				in	in
T1	150.000-147.583	2.417	K Brace Down	No	Yes	0.000	0.000
T2	147.583-130.000	2.417	X Brace	No	Steps	4.000	4.000
T3	130.000-110.000	2.365	X Brace	No	Steps	6.000	7.000
T4	110.000-100.000	10.000	X Brace	No	No	0.000	0.000
T5	100.000-80.000	10.000	X Brace	No	Yes	0.000	0.000
T6	80.000-60.000	10.000	X Brace	No	No	0.000	0.000

Tower Section	Tower Elevation ft	Diagonal Spacing ft	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset in	Bottom Girt Offset in
T7	60.000-40.000	10.000	X Brace	No	No	0.000	0.000
T8	40.000-20.000	10.000	X Brace	No	No	0.000	0.000
T9	20.000-0.000	10.000	X Brace	No	No	0.000	0.000

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T1 150.000-147.583	Solid Round	1 1/2	A572-50 (50 ksi)	Solid Round	3/4	A572-50 (50 ksi)
T2 147.583-130.000	Solid Round	1 1/2	A572-50 (50 ksi)	Solid Round	3/4	A572-50 (50 ksi)
T3 130.000-110.000	Solid Round	2	A572-50 (50 ksi)	Solid Round	7/8	A572-50 (50 ksi)
T4 110.000-100.000	Truss Leg	Pirod 105244	A572-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A36 (36 ksi)
T5 100.000-80.000	Truss Leg	Pirod 105216	A572-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/8	A36 (36 ksi)
T6 80.000-60.000	Truss Leg	Pirod 105217	A572-50 (50 ksi)	Equal Angle	L3x3x3/16	A36 (36 ksi)
T7 60.000-40.000	Truss Leg	Pirod 105218	A572-50 (50 ksi)	Equal Angle	L3x3x3/16	A36 (36 ksi)
T8 40.000-20.000	Truss Leg	Pirod 105218	A572-50 (50 ksi)	Equal Angle	L3x3x5/16	A36 (36 ksi)
T9 20.000-0.000	Truss Leg	Pirod 105219	A572-50 (50 ksi)	Equal Angle	L3x3x5/16	A36 (36 ksi)

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
T2 147.583-130.000	Solid Round	7/8	A572-50 (50 ksi)	Solid Round	7/8	A572-50 (50 ksi)
T3 130.000-110.000	Solid Round	1	A572-50 (50 ksi)	Solid Round	1	A572-50 (50 ksi)
T4 110.000-100.000	Equal Angle	L3x3x3/16	A36 (36 ksi)	Equal Angle		A36 (36 ksi)
T5 100.000-80.000	Equal Angle	L3x3x3/16	A36 (36 ksi)	Equal Angle		A36 (36 ksi)
T6 80.000-60.000	Equal Angle	L3x3x3/16	A36 (36 ksi)	Equal Angle		A36 (36 ksi)

Tower Section Geometry *(cont'd)*

Tower Elevation ft	No. of Mid Girts	Mid Girt Type	Mid Girt Size	Mid Girt Grade	Horizontal Type	Horizontal Size	Horizontal Grade
T1 150.000-147.583	None	Solid Round		A36 (36 ksi)	Flat Bar	5x1/2	A36 (36 ksi)
T2 147.583-130.000	None	Solid Round		A36 (36 ksi)	Solid Round	7/8	A572-50 (50 ksi)
T3 130.000-110.000	None	Solid Round		A36 (36 ksi)	Solid Round	7/8	A572-50 (50 ksi)

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
T1 150.000-147.583	0.000	0.375	A36 (36 ksi)	1	1	1	Mid-Pt	Mid-Pt	Mid-Pt
T2 147.583-130.000	0.000	0.375	A36 (36 ksi)	1	1	1	Mid-Pt	Mid-Pt	Mid-Pt
T3 130.000-110.000	0.000	0.375	A36 (36 ksi)	1	1	1	Mid-Pt	Mid-Pt	Mid-Pt
T4 110.000-100.000	0.000	0.375	A36 (36 ksi)	1.05	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T5 100.000-80.000	0.000	0.375	A36 (36 ksi)	1.05	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T6 80.000-60.000	0.000	0.375	A36 (36 ksi)	1.05	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T7 60.000-40.000	0.000	0.375	A36 (36 ksi)	1.05	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T8 40.000-20.000	0.000	0.375	A36 (36 ksi)	1.05	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T9 20.000-0.000	0.000	0.375	A36 (36 ksi)	1.05	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Calc K Single Angles	Calc K Solid Rounds	K Factors[1] Legs	X Brace Diags X Y	K Brace Diags X Y	Single Diags X Y	Girts X Y	Horiz. X Y	Sec. Horiz. X Y	Inner Brace X Y
T1 150.000-147.583	Yes	Yes	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T2 147.583-130.000	Yes	Yes	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T3 130.000-110.000	Yes	Yes	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T4 110.000-100.000	Yes	Yes	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T5 100.000-80.000	Yes	Yes	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T6 80.000-60.000	Yes	Yes	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T7 60.000-40.000	Yes	Yes	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T8 40.000-20.000	Yes	Yes	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T9 20.000-0.000	Yes	Yes	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1

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

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Truss-Leg K Factors					
	Truss-Legs Used As Leg Members			Truss-Legs Used As Inner Members		
	Leg Panels	X Brace Diagonals	Z Brace Diagonals	Leg Panels	X Brace Diagonals	Z Brace Diagonals
T4 110.000-100.000	1	0.5	0.85	1	0.5	0.85
T5 100.000-80.000	1	0.5	0.85	1	0.5	0.85
T6 80.000-60.000	1	0.5	0.85	1	0.5	0.85
T7 60.000-40.000	1	0.5	0.85	1	0.5	0.85
T8 40.000-20.000	1	0.5	0.85	1	0.5	0.85
T9 20.000-0.000	1	0.5	0.85	1	0.5	0.85

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T1 150.000-147.583	0.000	1	0.000	1	0.000	1	0.000	1	0.000	1	0.000	1	0.000	0.75
T2 147.583-130.000	0.000	1	0.000	1	0.000	1	0.000	1	0.000	1	0.000	1	0.000	0.75
T3 130.000-110.000	0.000	1	0.000	1	0.000	1	0.000	1	0.000	1	0.000	1	0.000	0.75
T4 110.000-100.000	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T5 100.000-80.000	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T6 80.000-60.000	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T7 60.000-40.000	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T8 40.000-20.000	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T9 20.000-0.000	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75

Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T1 150.000-147.583	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T2 147.583-130.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T3 130.000-110.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T4 110.000-100.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75

Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T5 100.000-80.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T6 80.000-60.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T7 60.000-40.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T8 40.000-20.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T9 20.000-0.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T1 150.000-147.583	Sleeve DS	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0
T2 147.583-130.000	Sleeve DS	0.625 A325N	5	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0
T3 130.000-110.000	Flange	1.000 A325N	6	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0
T4 110.000-100.000	Flange	1.000 A325N	6	1.000 A325N	1	1.000 A325N	1	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0
T5 100.000-80.000	Flange	1.000 A325N	6	1.000 A325N	1	1.000 A325N	1	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0
T6 80.000-60.000	Flange	1.000 A325N	6	1.000 A325N	1	1.000 A325N	1	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0
T7 60.000-40.000	Flange	1.000 A325N	6	1.000 A325N	1	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0
T8 40.000-20.000	Flange	1.000 A325N	6	1.000 A325N	1	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0
T9 20.000-0.000	Flange	1.250 A687	0	1.250 A325N	1	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight klf
Safety Line 3/8 ***	B	No	No	Ar (CaAa)	150.000 - 0.000	0.000	0.5	1	1	0.375	0.375		0.000
T-Brackets (Af)	A	No	No	Af (CaAa)	150.000 - 0.000	-4.000	0.42	1	1	1.000	1.000		0.008
LCF58-50J(5/8)	A	No	No	Ar (CaAa)	150.000 - 0.000	-4.000	0.46	6	4	0.840	0.840		0.000
FB-L98B-034-XXX(3/8) ***	A	No	No	Ar (CaAa)	150.000 - 0.000	-5.000	0.4	1	1	0.500	0.394		0.000
T-Brackets (Af)	C	No	No	Af (CaAa)	141.000 - 0.000	-13.000	0.33	1	1	1.000	1.000		0.008
LDF7-50A(1-	C	No	No	Ar (CaAa)	141.000 -	-	0.35	12	4	0.500	1.980		0.001

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight klf
5/8)					0.000	15.000							
FB-L98B-034-XXX(3/8)	C	No	No	Ar (CaAa)	141.000 - 0.000	-7.000	0.37	1	1	0.394	0.000		0.000
PWRT-606-S(7/8)	C	No	No	Ar (CaAa)	141.000 - 0.000	-12.000	0.31	1	1	0.920	0.920		0.001
PWRT-608-S(13/16)	C	No	No	Ar (CaAa)	141.000 - 0.000	-15.000	0.3	6	3	0.820	0.820		0.001
(1P)FB-L98B-235-XXX(3/8)+(1E)FB-L98B-235-XXX(3/8)	C	No	No	Ar (CaAa)	141.000 - 0.000	-12.000	0.3	2	2	0.390	0.390		0.000
2 1/2" Rigid Conduit ***	C	No	No	Ar (CaAa)	141.000 - 0.000	-7.000	0.37	1	1	2.500	2.500		0.003
LDF5-50A(7/8) ***	A	No	No	Ar (CaAa)	118.000 - 0.000	-4.000	0.42	2	2	0.750	1.030		0.000
LDF5-50A(7/8) ***	C	No	No	Ar (CaAa)	130.000 - 0.000	-10.000	0.42	2	2	0.750	1.030		0.000
T-Brackets (Af)	B	No	No	Af (CaAa)	114.000 - 0.000	-7.000	0.42	1	1	1.000	1.000		0.008
(6E)LDF7-50A(1-5/8)+(3E)HCS 6X12 4AWG(1-5/8)+(2E)HCS 6X12 6AWG(1-3/8) ***	B	No	No	Ar (CaAa)	114.000 - 0.000	-7.000	0.4	11	6	1.980	1.980		0.001
Feedline Ladder (Af)	A	No	No	Af (CaAa)	118.000 - 0.000	-2.000	0	1	1	3.000	3.000		0.008
HB114-08U3M12-XXXF(7/8)	A	No	No	Ar (CaAa)	100.000 - 0.000	-4.000	-0.012	1	1	1.000	1.110		0.001
HB114-1-08U4-M5F(1-1/4) ***	A	No	No	Ar (CaAa)	100.000 - 0.000	-2.000	0	3	3	0.750	1.540		0.001
Feedline Ladder (Af)	C	No	No	Af (CaAa)	88.000 - 0.000	0.000	-0.4	1	1	3.000	3.000		0.008
(11E)LDF7-50A(1-5/8)+(2R)HB158-21U6S12-XXXM-01(1-5/8) ***	C	No	No	Ar (CaAa)	88.000 - 0.000	0.000	-0.4	13	8	0.500	1.990		0.002
Feedline Ladder (Af)	A	No	No	Af (CaAa)	65.000 - 0.000	-2.000	-0.3	1	1	3.000	3.000		0.008
LDF7-50A(1-5/8) ***	A	No	No	Ar (CaAa)	65.000 - 0.000	-2.000	-0.3	6	6	1.000	1.980		0.001
LDF4-50A(1/2) ***	A	No	No	Ar (CaAa)	50.000 - 0.000	-2.000	0.025	1	1	0.625	0.625		0.000

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_A ft^2/ft	Weight klf
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Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
T1	150.000-147.583	A	0.000	0.000	1.716	0.000	0.024
		B	0.000	0.000	0.091	0.000	0.001
		C	0.000	0.000	0.000	0.000	0.000
T2	147.583-130.000	A	0.000	0.000	12.485	0.000	0.175
		B	0.000	0.000	0.659	0.000	0.004
		C	0.000	0.000	38.001	0.000	0.286
T3	130.000-110.000	A	0.000	0.000	19.849	0.000	0.272
		B	0.000	0.000	10.129	0.000	0.074
		C	0.000	0.000	73.213	0.000	0.534
T4	110.000-100.000	A	0.000	0.000	14.160	0.000	0.190
		B	0.000	0.000	23.822	0.000	0.176
		C	0.000	0.000	36.607	0.000	0.267
T5	100.000-80.000	A	0.000	0.000	39.781	0.000	0.472
		B	0.000	0.000	47.643	0.000	0.353
		C	0.000	0.000	97.909	0.000	0.799
T6	80.000-60.000	A	0.000	0.000	48.221	0.000	0.539
		B	0.000	0.000	47.643	0.000	0.353
		C	0.000	0.000	134.953	0.000	1.196
T7	60.000-40.000	A	0.000	0.000	74.166	0.000	0.740
		B	0.000	0.000	47.643	0.000	0.353
		C	0.000	0.000	134.953	0.000	1.196
T8	40.000-20.000	A	0.000	0.000	74.791	0.000	0.741
		B	0.000	0.000	47.643	0.000	0.353
		C	0.000	0.000	134.953	0.000	1.196
T9	20.000-0.000	A	0.000	0.000	74.791	0.000	0.741
		B	0.000	0.000	47.643	0.000	0.353
		C	0.000	0.000	134.953	0.000	1.196

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
T1	150.000-147.583	A	0.988	0.000	0.000	4.188	0.000	0.058
		B		0.000	0.000	0.568	0.000	0.005
		C		0.000	0.000	0.000	0.000	0.000
T2	147.583-130.000	A	0.981	0.000	0.000	30.379	0.000	0.420
		B		0.000	0.000	4.110	0.000	0.032
		C		0.000	0.000	49.806	0.000	0.783
T3	130.000-110.000	A	0.967	0.000	0.000	45.486	0.000	0.626
		B		0.000	0.000	23.282	0.000	0.271
		C		0.000	0.000	104.017	0.000	1.507
T4	110.000-100.000	A	0.954	0.000	0.000	30.934	0.000	0.424
		B		0.000	0.000	48.634	0.000	0.596
		C		0.000	0.000	51.727	0.000	0.748
T5	100.000-80.000	A	0.940	0.000	0.000	89.221	0.000	1.128
		B		0.000	0.000	96.508	0.000	1.176
		C		0.000	0.000	130.545	0.000	2.018
T6	80.000-60.000	A	0.916	0.000	0.000	103.728	0.000	1.300
		B		0.000	0.000	95.295	0.000	1.148
		C		0.000	0.000	170.881	0.000	2.788
T7	60.000-40.000	A	0.886	0.000	0.000	150.783	0.000	1.853
		B		0.000	0.000	93.719	0.000	1.113
		C		0.000	0.000	169.242	0.000	2.744

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
T8	40.000-20.000	A	0.842	0.000	0.000	150.969	0.000	1.815
		B		0.000	0.000	91.424	0.000	1.063
		C		0.000	0.000	166.856	0.000	2.682
T9	20.000-0.000	A	0.754	0.000	0.000	146.588	0.000	1.706
		B		0.000	0.000	86.869	0.000	0.968
		C		0.000	0.000	162.125	0.000	2.561

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
T1	150.000-147.583	0.500	-3.906	1.106	-4.239
T2	147.583-130.000	-6.081	-4.112	-4.199	-3.539
T3	130.000-110.000	-7.357	-1.494	-6.478	-1.900
T4	110.000-100.000	-2.462	1.865	-2.309	0.282
T5	100.000-80.000	0.240	2.878	-1.702	0.986
T6	80.000-60.000	4.125	5.207	0.739	3.137
T7	60.000-40.000	2.131	7.115	-1.508	4.849
T8	40.000-20.000	2.359	8.185	-1.805	5.649
T9	20.000-0.000	2.595	9.120	-1.768	6.514

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T1	1	Safety Line 3/8	147.58 - 150.00	0.6000	0.5170
T1	3	T-Brackets (Af)	147.58 - 150.00	0.6000	0.5170
T1	4	LCF58-50J(5/8)	147.58 - 150.00	0.6000	0.5170
T1	5	FB-L98B-034-XXX(3/8)	147.58 - 150.00	0.6000	0.5170
T2	1	Safety Line 3/8	130.00 - 147.58	0.6000	0.6000
T2	3	T-Brackets (Af)	130.00 - 147.58	0.6000	0.6000
T2	4	LCF58-50J(5/8)	130.00 - 147.58	0.6000	0.6000
T2	5	FB-L98B-034-XXX(3/8)	130.00 - 147.58	0.6000	0.6000
T2	7	T-Brackets (Af)	130.00 - 141.00	0.6000	0.6000
T2	8	LDF7-50A(1-5/8)	130.00 - 141.00	0.6000	0.6000
T2	9	FB-L98B-034-XXX(3/8)	130.00 - 141.00	0.6000	0.6000
T2	10	PWRT-606-S(7/8)	130.00 - 141.00	0.6000	0.6000
T2	11	PWRT-608-S(13/16)	130.00 - 141.00	0.6000	0.6000
T2	12	(1P)FB-L98B-235-XXX(3/8)+(1E)FB-L98B-235-XXX(3/8)	130.00 - 141.00	0.6000	0.6000
T2	13	2 1/2" Rigid Conduit	130.00 - 141.00	0.6000	0.6000
T3	1	Safety Line 3/8	110.00 -	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T3	3	T-Brackets (Af)	130.00 110.00 - 130.00	0.6000	0.6000
T3	4	LCF58-50J(5/8)	110.00 - 130.00	0.6000	0.6000
T3	5	FB-L98B-034-XXX(3/8)	110.00 - 130.00	0.6000	0.6000
T3	7	T-Brackets (Af)	110.00 - 130.00	0.6000	0.6000
T3	8	LDF7-50A(1-5/8)	110.00 - 130.00	0.6000	0.6000
T3	9	FB-L98B-034-XXX(3/8)	110.00 - 130.00	0.6000	0.6000
T3	10	PWRT-606-S(7/8)	110.00 - 130.00	0.6000	0.6000
T3	11	PWRT-608-S(13/16)	110.00 - 130.00	0.6000	0.6000
T3	12	(1P)FB-L98B-235-XXX(3/8)+(1E)FB-L98B-235-XXX(3/8)	110.00 - 130.00	0.6000	0.6000
T3	13	2 1/2" Rigid Conduit	110.00 - 130.00	0.6000	0.6000
T3	21	LDF5-50A(7/8)	110.00 - 118.00	0.6000	0.6000
T3	23	LDF5-50A(7/8)	110.00 - 130.00	0.6000	0.6000
T3	25	T-Brackets (Af)	110.00 - 114.00	0.6000	0.6000
T3	26	(6E)LDF7-50A(1-5/8)+(3E)HCS 6X12 4AWG(1-5/8)+(2E)HCS 6X12 6AWG(1-3/8)	110.00 - 114.00	0.6000	0.6000
T3	31	Feedline Ladder (Af)	110.00 - 118.00	0.6000	0.6000
T4	1	Safety Line 3/8	100.00 - 110.00	0.6000	0.3927
T4	3	T-Brackets (Af)	100.00 - 110.00	0.6000	0.3927
T4	4	LCF58-50J(5/8)	100.00 - 110.00	0.6000	0.3927
T4	5	FB-L98B-034-XXX(3/8)	100.00 - 110.00	0.6000	0.3927
T4	7	T-Brackets (Af)	100.00 - 110.00	0.6000	0.3927
T4	8	LDF7-50A(1-5/8)	100.00 - 110.00	0.6000	0.3927
T4	9	FB-L98B-034-XXX(3/8)	100.00 - 110.00	0.6000	0.3927
T4	10	PWRT-606-S(7/8)	100.00 - 110.00	0.6000	0.3927
T4	11	PWRT-608-S(13/16)	100.00 - 110.00	0.6000	0.3927
T4	12	(1P)FB-L98B-235-XXX(3/8)+(1E)FB-L98B-235-XXX(3/8)	100.00 - 110.00	0.6000	0.3927
T4	13	2 1/2" Rigid Conduit	100.00 - 110.00	0.6000	0.3927
T4	21	LDF5-50A(7/8)	100.00 - 110.00	0.6000	0.3927
T4	23	LDF5-50A(7/8)	100.00 - 110.00	0.6000	0.3927
T4	25	T-Brackets (Af)	100.00 - 110.00	0.6000	0.3927
T4	26	(6E)LDF7-50A(1-5/8)+(3E)HCS 6X12 4AWG(1-5/8)+(2E)HCS 6X12 6AWG(1-3/8)	100.00 - 110.00	0.6000	0.3927
T4	31	Feedline Ladder (Af)	100.00 - 110.00	0.6000	0.3927

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T5	1	Safety Line 3/8	80.00 - 100.00	0.6000	0.5276
T5	3	T-Brackets (Af)	80.00 - 100.00	0.6000	0.5276
T5	4	LCF58-50J(5/8)	80.00 - 100.00	0.6000	0.5276
T5	5	FB-L98B-034-XXX(3/8)	80.00 - 100.00	0.6000	0.5276
T5	7	T-Brackets (Af)	80.00 - 100.00	0.6000	0.5276
T5	8	LDF7-50A(1-5/8)	80.00 - 100.00	0.6000	0.5276
T5	9	FB-L98B-034-XXX(3/8)	80.00 - 100.00	0.6000	0.5276
T5	10	PWRT-606-S(7/8)	80.00 - 100.00	0.6000	0.5276
T5	11	PWRT-608-S(13/16)	80.00 - 100.00	0.6000	0.5276
T5	12	(1P)FB-L98B-235-XXX(3/8)+(1E)FB-L98B-235-XXX(3/8)	80.00 - 100.00	0.6000	0.5276
T5	13	2 1/2" Rigid Conduit	80.00 - 100.00	0.6000	0.5276
T5	21	LDF5-50A(7/8)	80.00 - 100.00	0.6000	0.5276
T5	23	LDF5-50A(7/8)	80.00 - 100.00	0.6000	0.5276
T5	25	T-Brackets (Af)	80.00 - 100.00	0.6000	0.5276
T5	26	(6E)LDF7-50A(1-5/8)+(3E)HCS 6X12 4AWG(1-5/8)+(2E)HCS 6X12 6AWG(1-3/8)	80.00 - 100.00	0.6000	0.5276
T5	31	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.5276
T5	32	HB114-08U3M12-XXXF(7/8)	80.00 - 100.00	0.6000	0.5276
T5	33	HB114-1-08U4-M5F(1-1/4)	80.00 - 100.00	0.6000	0.5276
T5	35	Feedline Ladder (Af)	80.00 - 88.00	0.6000	0.5276
T5	36	(11E)LDF7-50A(1-5/8)+(2R)HB158-21U6S12-XXXM-01(1-5/8)	80.00 - 88.00	0.6000	0.5276
T6	1	Safety Line 3/8	60.00 - 80.00	0.6000	0.5898
T6	3	T-Brackets (Af)	60.00 - 80.00	0.6000	0.5898
T6	4	LCF58-50J(5/8)	60.00 - 80.00	0.6000	0.5898
T6	5	FB-L98B-034-XXX(3/8)	60.00 - 80.00	0.6000	0.5898
T6	7	T-Brackets (Af)	60.00 - 80.00	0.6000	0.5898
T6	8	LDF7-50A(1-5/8)	60.00 - 80.00	0.6000	0.5898
T6	9	FB-L98B-034-XXX(3/8)	60.00 - 80.00	0.6000	0.5898
T6	10	PWRT-606-S(7/8)	60.00 - 80.00	0.6000	0.5898
T6	11	PWRT-608-S(13/16)	60.00 - 80.00	0.6000	0.5898
T6	12	(1P)FB-L98B-235-XXX(3/8)+(1E)FB-L98B-235-XXX(3/8)	60.00 - 80.00	0.6000	0.5898
T6	13	2 1/2" Rigid Conduit	60.00 - 80.00	0.6000	0.5898
T6	21	LDF5-50A(7/8)	60.00 - 80.00	0.6000	0.5898

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T6	23	LDF5-50A(7/8)	60.00 - 80.00	0.6000	0.5898
T6	25	T-Brackets (Af)	60.00 - 80.00	0.6000	0.5898
T6	26	(6E)LDF7-50A(1-5/8)+(3E)HCS 6X12 4AWG(1-5/8)+(2E)HCS 6X12 6AWG(1-3/8)	60.00 - 80.00	0.6000	0.5898
T6	31	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.5898
T6	32	HB114-08U3M12-XXXF(7/8)	60.00 - 80.00	0.6000	0.5898
T6	33	HB114-1-08U4-M5F(1-1/4)	60.00 - 80.00	0.6000	0.5898
T6	35	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.5898
T6	36	(11E)LDF7-50A(1-5/8)+(2R)HB158-21U6S12-XXXM-01(1-5/8)	60.00 - 80.00	0.6000	0.5898
T6	41	Feedline Ladder (Af)	60.00 - 65.00	0.6000	0.5898
T6	42	LDF7-50A(1-5/8)	60.00 - 65.00	0.6000	0.5898
T7	1	Safety Line 3/8	40.00 - 60.00	0.6000	0.6000
T7	3	T-Brackets (Af)	40.00 - 60.00	0.6000	0.6000
T7	4	LCF58-50J(5/8)	40.00 - 60.00	0.6000	0.6000
T7	5	FB-L98B-034-XXX(3/8)	40.00 - 60.00	0.6000	0.6000
T7	7	T-Brackets (Af)	40.00 - 60.00	0.6000	0.6000
T7	8	LDF7-50A(1-5/8)	40.00 - 60.00	0.6000	0.6000
T7	9	FB-L98B-034-XXX(3/8)	40.00 - 60.00	0.6000	0.6000
T7	10	PWRT-606-S(7/8)	40.00 - 60.00	0.6000	0.6000
T7	11	PWRT-608-S(13/16)	40.00 - 60.00	0.6000	0.6000
T7	12	(1P)FB-L98B-235-XXX(3/8)+(1E)FB-L98B-235-XXX(3/8)	40.00 - 60.00	0.6000	0.6000
T7	13	2 1/2" Rigid Conduit	40.00 - 60.00	0.6000	0.6000
T7	21	LDF5-50A(7/8)	40.00 - 60.00	0.6000	0.6000
T7	23	LDF5-50A(7/8)	40.00 - 60.00	0.6000	0.6000
T7	25	T-Brackets (Af)	40.00 - 60.00	0.6000	0.6000
T7	26	(6E)LDF7-50A(1-5/8)+(3E)HCS 6X12 4AWG(1-5/8)+(2E)HCS 6X12 6AWG(1-3/8)	40.00 - 60.00	0.6000	0.6000
T7	31	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T7	32	HB114-08U3M12-XXXF(7/8)	40.00 - 60.00	0.6000	0.6000
T7	33	HB114-1-08U4-M5F(1-1/4)	40.00 - 60.00	0.6000	0.6000
T7	35	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T7	36	(11E)LDF7-50A(1-5/8)+(2R)HB158-21U6S12-XXXM-01(1-5/8)	40.00 - 60.00	0.6000	0.6000
T7	41	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T7	42	LDF7-50A(1-5/8)	40.00 - 60.00	0.6000	0.6000
T7	44	LDF4-50A(1/2)	40.00 - 50.00	0.6000	0.6000
T8	1	Safety Line 3/8	20.00 - 40.00	0.6000	0.6000
T8	3	T-Brackets (Af)	20.00 - 40.00	0.6000	0.6000
T8	4	LCF58-50J(5/8)	20.00 - 40.00	0.6000	0.6000
T8	5	FB-L98B-034-XXX(3/8)	20.00 - 40.00	0.6000	0.6000
T8	7	T-Brackets (Af)	20.00 - 40.00	0.6000	0.6000
T8	8	LDF7-50A(1-5/8)	20.00 - 40.00	0.6000	0.6000
T8	9	FB-L98B-034-XXX(3/8)	20.00 - 40.00	0.6000	0.6000
T8	10	PWRT-606-S(7/8)	20.00 - 40.00	0.6000	0.6000
T8	11	PWRT-608-S(13/16)	20.00 - 40.00	0.6000	0.6000
T8	12	(1P)FB-L98B-235-XXX(3/8)+(1E)FB-L98B-235-XXX(3/8)	20.00 - 40.00	0.6000	0.6000
T8	13	2 1/2" Rigid Conduit	20.00 - 40.00	0.6000	0.6000
T8	21	LDF5-50A(7/8)	20.00 - 40.00	0.6000	0.6000
T8	23	LDF5-50A(7/8)	20.00 - 40.00	0.6000	0.6000
T8	25	T-Brackets (Af)	20.00 - 40.00	0.6000	0.6000
T8	26	(6E)LDF7-50A(1-5/8)+(3E)HCS 6X12 4AWG(1-5/8)+(2E)HCS 6X12 6AWG(1-3/8)	20.00 - 40.00	0.6000	0.6000
T8	31	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T8	32	HB114-08U3M12-XXXF(7/8)	20.00 - 40.00	0.6000	0.6000
T8	33	HB114-1-08U4-M5F(1-1/4)	20.00 - 40.00	0.6000	0.6000
T8	35	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T8	36	(11E)LDF7-50A(1-5/8)+(2R)HB158-21U6S12-XXXM-01(1-5/8)	20.00 - 40.00	0.6000	0.6000
T8	41	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T8	42	LDF7-50A(1-5/8)	20.00 - 40.00	0.6000	0.6000
T8	44	LDF4-50A(1/2)	20.00 - 40.00	0.6000	0.6000
T9	1	Safety Line 3/8	0.00 - 20.00	0.6000	0.6000
T9	3	T-Brackets (Af)	0.00 - 20.00	0.6000	0.6000
T9	4	LCF58-50J(5/8)	0.00 - 20.00	0.6000	0.6000
T9	5	FB-L98B-034-XXX(3/8)	0.00 - 20.00	0.6000	0.6000
T9	7	T-Brackets (Af)	0.00 - 20.00	0.6000	0.6000
T9	8	LDF7-50A(1-5/8)	0.00 - 20.00	0.6000	0.6000
T9	9	FB-L98B-034-XXX(3/8)	0.00 - 20.00	0.6000	0.6000
T9	10	PWRT-606-S(7/8)	0.00 - 20.00	0.6000	0.6000
T9	11	PWRT-608-S(13/16)	0.00 - 20.00	0.6000	0.6000
T9	12	(1P)FB-L98B-235-XXX(3/8)+(1E)FB-L98B-235-XXX(3/8)	0.00 - 20.00	0.6000	0.6000
T9	13	2 1/2" Rigid Conduit	0.00 - 20.00	0.6000	0.6000
T9	21	LDF5-50A(7/8)	0.00 - 20.00	0.6000	0.6000
T9	23	LDF5-50A(7/8)	0.00 - 20.00	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T9	25	T-Brackets (Af)	0.00 - 20.00	0.6000	0.6000
T9	26	(6E)LDF7-50A(1-5/8)+(3E)HCS 6X12 4AWG(1-5/8)+(2E)HCS 6X12 6AWG(1-3/8)	0.00 - 20.00	0.6000	0.6000
T9	31	Feedline Ladder (Af)	0.00 - 20.00	0.6000	0.6000
T9	32	HB114-08U3M12-XXXF(7/8)	0.00 - 20.00	0.6000	0.6000
T9	33	HB114-1-08U4-M5F(1-1/4)	0.00 - 20.00	0.6000	0.6000
T9	35	Feedline Ladder (Af)	0.00 - 20.00	0.6000	0.6000
T9	36	(11E)LDF7-50A(1-5/8)+(2R)HB158-21U6S12-XXXM-01(1-5/8)	0.00 - 20.00	0.6000	0.6000
T9	41	Feedline Ladder (Af)	0.00 - 20.00	0.6000	0.6000
T9	42	LDF7-50A(1-5/8)	0.00 - 20.00	0.6000	0.6000
T9	44	LDF4-50A(1/2)	0.00 - 20.00	0.6000	0.6000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft²	C_AA_A Side ft²	Weight K
7' Horizontal L3x3x3/16	C	From Face	0.000 0.000 0.000	0.000	90.000	No Ice 1/2" Ice 1" Ice	2.100 2.578 3.059	0.075 0.112 0.156	0.026 0.045 0.070
7' Horizontal L3x3x3/16	C	From Face	0.000 0.000 0.000	0.000	90.000	No Ice 1/2" Ice 1" Ice	2.100 2.578 3.059	0.075 0.112 0.156	0.026 0.045 0.070
7' Horizontal L3x3x3/16	C	From Face	0.000 0.000 0.000	0.000	90.000	No Ice 1/2" Ice 1" Ice	2.100 2.578 3.059	0.075 0.112 0.156	0.026 0.045 0.070
***									
Platform Mount [LP 405-1]	C	None		0.000	150.000	No Ice 1/2" Ice 1" Ice	20.880 28.890 37.040	20.880 28.890 37.040	1.800 2.277 2.868
SC226-SFXSNM	B	From Leg	4.000 0.000 0.000	0.000	150.000	No Ice 1/2" Ice 1" Ice	22.194 30.838 31.868	22.194 30.838 31.868	0.032 0.340 0.661
SC226-SFXSNM	C	From Leg	4.000 0.000 0.000	0.000	150.000	No Ice 1/2" Ice 1" Ice	22.194 30.838 31.868	22.194 30.838 31.868	0.032 0.340 0.661
(3) 5'x2" Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	150.000	No Ice 1/2" Ice 1" Ice	1.188 1.496 1.807	1.188 1.496 1.807	0.018 0.027 0.040
(3) 5'x2" Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	150.000	No Ice 1/2" Ice 1" Ice	1.188 1.496 1.807	1.188 1.496 1.807	0.018 0.027 0.040
(3) 5'x2" Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	150.000	No Ice 1/2" Ice	1.188 1.496 1.807	1.188 1.496 1.807	0.018 0.027 0.040

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft	Offsets: Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
							1" Ice			
***										
RRUS 32 B2	A	From Face	0.500	0.000	0.000	144.000	No Ice	2.731	1.668	0.053
			0.000				1/2" Ice	2.953	1.855	0.074
			0.000				1" Ice	3.182	2.049	0.098
RRUS 32 B2	B	From Face	0.500	0.000	0.000	144.000	No Ice	2.731	1.668	0.053
			0.000				1/2" Ice	2.953	1.855	0.074
			0.000				1" Ice	3.182	2.049	0.098
RRUS 32 B2	C	From Face	0.500	0.000	0.000	144.000	No Ice	2.731	1.668	0.053
			0.000				1/2" Ice	2.953	1.855	0.074
			0.000				1" Ice	3.182	2.049	0.098
DC6-48-60-18-8F	B	From Face	0.500	0.000	0.000	144.000	No Ice	0.917	0.917	0.019
			0.000				1/2" Ice	1.458	1.458	0.037
			0.000				1" Ice	1.643	1.643	0.057
(2) 4' Horiz Unistrut	A	From Face	0.000	0.000	0.000	144.000	No Ice	0.500	0.011	0.008
			0.000				1/2" Ice	0.771	0.028	0.013
			0.000				1" Ice	1.045	0.052	0.022
(2) 4' Horiz Unistrut	B	From Face	0.000	0.000	0.000	144.000	No Ice	0.500	0.011	0.008
			0.000				1/2" Ice	0.771	0.028	0.013
			0.000				1" Ice	1.045	0.052	0.022
(2) 4' Horiz Unistrut	C	From Face	0.000	0.000	0.000	144.000	No Ice	0.500	0.011	0.008
			0.000				1/2" Ice	0.771	0.028	0.013
			0.000				1" Ice	1.045	0.052	0.022
***										
Sector Mount [SM 503-3]	C	None			0.000	141.000	No Ice	30.430	30.430	1.690
							1/2" Ice	43.020	43.020	2.296
							1" Ice	55.430	55.430	3.097
Pipe Mount [PM 601-3]	C	None			0.000	141.000	No Ice	3.170	3.170	0.195
							1/2" Ice	3.790	3.790	0.232
							1" Ice	4.420	4.420	0.279
QD4616-7	A	From Leg	4.000	0.000	0.000	141.000	No Ice	9.640	4.200	0.109
			0.000				1/2" Ice	10.270	4.720	0.171
			0.000				1" Ice	10.920	5.270	0.239
QD4616-7	B	From Leg	4.000	0.000	0.000	141.000	No Ice	9.640	4.200	0.109
			0.000				1/2" Ice	10.270	4.720	0.171
			0.000				1" Ice	10.920	5.270	0.239
QD4616-7	C	From Leg	4.000	0.000	0.000	141.000	No Ice	9.640	4.200	0.109
			0.000				1/2" Ice	10.270	4.720	0.171
			0.000				1" Ice	10.920	5.270	0.239
AIR 6419 B77G_CCIV3	A	From Leg	4.000	0.000	0.000	141.000	No Ice	4.173	2.015	0.044
			0.000				1/2" Ice	4.439	2.225	0.073
			2.000				1" Ice	4.712	2.442	0.106
AIR 6419 B77G_CCIV3	B	From Leg	4.000	0.000	0.000	141.000	No Ice	4.173	2.015	0.044
			0.000				1/2" Ice	4.439	2.225	0.073
			2.000				1" Ice	4.712	2.442	0.106
AIR 6419 B77G_CCIV3	C	From Leg	4.000	0.000	0.000	141.000	No Ice	4.173	2.015	0.044
			0.000				1/2" Ice	4.439	2.225	0.073
			2.000				1" Ice	4.712	2.442	0.106
AIR 6449 B77D_CCVI2	A	From Leg	4.000	0.000	0.000	141.000	No Ice	3.640	1.720	0.082
			0.000				1/2"	4.000	2.020	0.111

Description	*Face or Leg*	*Offset Type*	*Offsets: Horz Lateral Vert* ft ft ft	*Azimuth Adjustment* °	*Placement* ft		*C_AA_A Front* ft^2	*C_AA_A Side* ft^2	*Weight* K
			-2.000			Ice	4.370	2.330	0.144
						1" Ice			
AIR 6449 B77D_CCVI2	B	From Leg	4.000	0.000	141.000	No Ice	3.640	1.720	0.082
			0.000			1/2"	4.000	2.020	0.111
			-2.000			Ice	4.370	2.330	0.144
						1" Ice			
AIR 6449 B77D_CCVI2	C	From Leg	4.000	0.000	141.000	No Ice	3.640	1.720	0.082
			0.000			1/2"	4.000	2.020	0.111
			-2.000			Ice	4.370	2.330	0.144
						1" Ice			
DMP65R-BU4D	A	From Leg	4.000	0.000	141.000	No Ice	7.480	2.810	0.076
			0.000			1/2"	8.010	3.230	0.128
			0.000			Ice	8.550	3.670	0.185
						1" Ice			
DMP65R-BU4D	B	From Leg	4.000	0.000	141.000	No Ice	7.480	2.810	0.076
			0.000			1/2"	8.010	3.230	0.128
			0.000			Ice	8.550	3.670	0.185
						1" Ice			
DMP65R-BU4D	C	From Leg	4.000	0.000	141.000	No Ice	7.480	2.810	0.076
			0.000			1/2"	8.010	3.230	0.128
			0.000			Ice	8.550	3.670	0.185
						1" Ice			
RRUS 4449 B5/B12	B	From Leg	4.000	0.000	141.000	No Ice	1.968	1.408	0.071
			0.000			1/2"	2.144	1.564	0.090
			0.000			Ice	2.328	1.727	0.111
						1" Ice			
RRUS 4449 B5/B12	B	From Leg	4.000	0.000	141.000	No Ice	1.968	1.408	0.071
			0.000			1/2"	2.144	1.564	0.090
			0.000			Ice	2.328	1.727	0.111
						1" Ice			
RRUS 4449 B5/B12	B	From Leg	4.000	0.000	141.000	No Ice	1.968	1.408	0.071
			0.000			1/2"	2.144	1.564	0.090
			0.000			Ice	2.328	1.727	0.111
						1" Ice			
DC9-48-60-24-8C-	C	From Leg	2.000	0.000	141.000	No Ice	2.736	2.736	0.019
EV_CCIV2			0.000			1/2"	2.962	2.962	0.044
			0.000			Ice	3.195	3.195	0.074
						1" Ice			
WCS-IMFQ-AMT	C	From Leg	4.000	0.000	141.000	No Ice	0.989	0.644	0.030
			0.000			1/2"	1.114	0.748	0.039
			0.000			Ice	1.246	0.860	0.051
						1" Ice			
WCS-IMFQ-AMT	A	From Leg	4.000	0.000	141.000	No Ice	0.989	0.644	0.030
			0.000			1/2"	1.114	0.748	0.039
			0.000			Ice	1.246	0.860	0.051
						1" Ice			
RRUS 4426 B66	A	From Leg	4.000	0.000	141.000	No Ice	1.644	0.725	0.100
			0.000			1/2"	1.804	0.842	0.113
			0.000			Ice	1.972	0.969	0.128
						1" Ice			
RRUS 4426 B66	B	From Leg	4.000	0.000	141.000	No Ice	1.644	0.725	0.100
			0.000			1/2"	1.804	0.842	0.113
			0.000			Ice	1.972	0.969	0.128
						1" Ice			
RRUS 4426 B66	C	From Leg	4.000	0.000	141.000	No Ice	1.644	0.725	0.100
			0.000			1/2"	1.804	0.842	0.113
			0.000			Ice	1.972	0.969	0.128
						1" Ice			
RRUS 4478 B14	A	From Leg	4.000	0.000	141.000	No Ice	1.843	1.059	0.060
			0.000			1/2"	2.012	1.197	0.076
			3.000			Ice	2.190	1.342	0.094
						1" Ice			
RRUS 4478 B14	B	From Leg	4.000	0.000	141.000	No Ice	1.843	1.059	0.060
			0.000			1/2"	2.012	1.197	0.076
			3.000			Ice	2.190	1.342	0.094

Description	*Face or Leg*	*Offset Type*	*Offsets: Horz Lateral Vert* ft ft ft	*Azimuth Adjustment* °	*Placement* ft		*C_AA_A Front* ft²	*C_AA_A Side* ft²	*Weight* K
						1" Ice			
RRUS 4478 B14	C	From Leg	4.000	0.000	141.000	No Ice	1.843	1.059	0.060
			0.000			1/2"	2.012	1.197	0.076
			3.000			Ice	2.190	1.342	0.094
						1" Ice			
RRUS 32 B30	A	From Leg	4.000	0.000	141.000	No Ice	2.692	1.573	0.060
			0.000			1/2"	2.912	1.756	0.080
			3.000			Ice	3.138	1.945	0.104
						1" Ice			
RRUS 32 B30	B	From Leg	4.000	0.000	141.000	No Ice	2.692	1.573	0.060
			0.000			1/2"	2.912	1.756	0.080
			3.000			Ice	3.138	1.945	0.104
						1" Ice			
RRUS 32 B30	C	From Leg	4.000	0.000	141.000	No Ice	2.692	1.573	0.060
			0.000			1/2"	2.912	1.756	0.080
			3.000			Ice	3.138	1.945	0.104
						1" Ice			
DC6-48-60-18-8F	C	From Leg	2.000	0.000	141.000	No Ice	0.917	0.917	0.019
			0.000			1/2"	1.458	1.458	0.037
			3.000			Ice	1.643	1.643	0.057
						1" Ice			
(3) 10'x2" Mount Pipe	C	From Leg	4.000	0.000	141.000	No Ice	2.375	2.375	0.037
			0.000			1/2"	3.403	3.403	0.054
			0.000			Ice	4.448	4.448	0.079
						1" Ice			
(3) 10'x2" Mount Pipe	C	From Leg	4.000	0.000	141.000	No Ice	2.375	2.375	0.037
			0.000			1/2"	3.403	3.403	0.054
			0.000			Ice	4.448	4.448	0.079
						1" Ice			
(3) 10'x2" Mount Pipe	C	From Leg	4.000	0.000	141.000	No Ice	2.375	2.375	0.037
			0.000			1/2"	3.403	3.403	0.054
			0.000			Ice	4.448	4.448	0.079
						1" Ice			
5'x2" Mount Pipe	A	From Leg	2.000	0.000	141.000	No Ice	1.188	1.188	0.018
			0.000			1/2"	1.496	1.496	0.027
			0.000			Ice	1.807	1.807	0.040
						1" Ice			
5'x2" Mount Pipe	B	From Leg	2.000	0.000	141.000	No Ice	1.188	1.188	0.018
			0.000			1/2"	1.496	1.496	0.027
			0.000			Ice	1.807	1.807	0.040
						1" Ice			
5'x2" Mount Pipe	C	From Leg	2.000	0.000	141.000	No Ice	1.188	1.188	0.018
			0.000			1/2"	1.496	1.496	0.027
			0.000			Ice	1.807	1.807	0.040
						1" Ice			
(2) 10'x3" Horizontal Pipe	A	From Face	0.500	0.000	141.000	No Ice	3.500	0.019	0.080
			0.000			1/2"	4.537	0.064	0.101
			0.000			Ice	5.300	0.109	0.132
						1" Ice			
(2) 10'x3" Horizontal Pipe	B	From Face	0.500	0.000	141.000	No Ice	3.500	0.019	0.080
			0.000			1/2"	4.537	0.064	0.101
			0.000			Ice	5.300	0.109	0.132
						1" Ice			
(2) 10'x3" Horizontal Pipe	C	From Face	0.500	0.000	141.000	No Ice	3.500	0.019	0.080
			0.000			1/2"	4.537	0.064	0.101
			0.000			Ice	5.300	0.109	0.132
						1" Ice			
*									
Side Arm Mount [SO 301-1]	B	From Leg	1.000	0.000	130.000	No Ice	0.460	0.910	0.023
			0.000			1/2"	0.650	1.300	0.033
			0.000			Ice	0.870	1.710	0.047
						1" Ice			
Side Arm Mount [SO 301-1]	A	From Leg	1.000	0.000	130.000	No Ice	0.460	0.910	0.023
			0.000			1/2"	0.650	1.300	0.033
			0.000			Ice	0.870	1.710	0.047

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						1" Ice			
M5160160P10006	B	From Leg	2.000 0.000 0.000	0.000	130.000	No Ice 1/2" Ice 1" Ice	0.850 1.050 1.260	0.210 0.380 0.550	0.002 0.007 0.014
M5160160P10006	A	From Leg	2.000 0.000 0.000	0.000	130.000	No Ice 1/2" Ice 1" Ice	0.850 1.050 1.260	0.210 0.380 0.550	0.002 0.007 0.014
***									
Side Arm Mount [SO 306-1]	B	From Leg	2.000 0.000 0.000	0.000	118.000	No Ice 1/2" Ice 1" Ice	0.410 0.810 1.230	2.260 3.830 5.480	0.042 0.062 0.094
Side Arm Mount [SO 306-1]	A	From Leg	2.000 0.000 0.000	0.000	118.000	No Ice 1/2" Ice 1" Ice	0.410 0.810 1.230	2.260 3.830 5.480	0.042 0.062 0.094
SC320	B	From Leg	4.000 0.000 10.000	0.000	118.000	No Ice 1/2" Ice 1" Ice	6.380 8.613 10.862	6.380 8.613 10.862	0.025 0.071 0.131
SC229-SFXLDF	A	From Leg	4.000 0.000 10.000	0.000	118.000	No Ice 1/2" Ice 1" Ice	5.950 7.967 10.000	5.950 7.967 10.000	0.032 0.075 0.130
10'x2.5" Mount Pipe	B	From Face	1.000 0.000 0.000	0.000	118.000	No Ice 1/2" Ice 1" Ice	2.875 3.907 4.956	2.875 3.907 4.956	0.058 0.079 0.106
10'x2.5" Mount Pipe	A	From Face	1.000 0.000 0.000	0.000	118.000	No Ice 1/2" Ice 1" Ice	2.875 3.907 4.956	2.875 3.907 4.956	0.058 0.079 0.106
***									
Sector Mount [SM 307-3]	C	None		0.000	114.000	No Ice 1/2" Ice 1" Ice	26.180 35.720 45.160	26.180 35.720 45.160	1.620 2.113 2.761
AIR6449 B41 w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	114.000	No Ice 1/2" Ice 1" Ice	5.180 5.590 6.010	2.720 3.050 3.390	0.118 0.164 0.216
AIR6449 B41 w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	114.000	No Ice 1/2" Ice 1" Ice	5.180 5.590 6.010	2.720 3.050 3.390	0.118 0.164 0.216
AIR6449 B41 w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	114.000	No Ice 1/2" Ice 1" Ice	5.180 5.590 6.010	2.720 3.050 3.390	0.118 0.164 0.216
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	A	From Leg	4.000 0.000 -2.000	0.000	114.000	No Ice 1/2" Ice 1" Ice	3.140 3.450 3.770	2.590 2.880 3.190	0.112 0.164 0.225
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	B	From Leg	4.000 0.000 -2.000	0.000	114.000	No Ice 1/2" Ice 1" Ice	3.140 3.450 3.770	2.590 2.880 3.190	0.112 0.164 0.225
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	C	From Leg	4.000 0.000 -2.000	0.000	114.000	No Ice 1/2" Ice 1" Ice	3.140 3.450 3.770	2.590 2.880 3.190	0.112 0.164 0.225
APXVAARR24_43-U-NA20 w/ Mount Pipe	A	From Leg	4.000 0.000	0.000	114.000	No Ice 1/2"	14.690 15.460	6.870 7.550	0.186 0.315

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			-2.000			Ice	16.230	8.250	0.458
						1" Ice			
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Leg	4.000	0.000	114.000	No Ice	14.690	6.870	0.186
			0.000			1/2"	15.460	7.550	0.315
			-2.000			Ice	16.230	8.250	0.458
						1" Ice			
APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Leg	4.000	0.000	114.000	No Ice	14.690	6.870	0.186
			0.000			1/2"	15.460	7.550	0.315
			-2.000			Ice	16.230	8.250	0.458
						1" Ice			
AIR 32 B2A/B66AA w/ Mount Pipe	A	From Leg	4.000	0.000	114.000	No Ice	3.760	3.150	0.194
			0.000			1/2"	4.120	3.490	0.252
			-2.000			Ice	4.480	3.840	0.320
						1" Ice			
AIR 32 B2A/B66AA w/ Mount Pipe	B	From Leg	4.000	0.000	114.000	No Ice	3.760	3.150	0.194
			0.000			1/2"	4.120	3.490	0.252
			-2.000			Ice	4.480	3.840	0.320
						1" Ice			
AIR 32 B2A/B66AA w/ Mount Pipe	C	From Leg	4.000	0.000	114.000	No Ice	3.760	3.150	0.194
			0.000			1/2"	4.120	3.490	0.252
			-2.000			Ice	4.480	3.840	0.320
						1" Ice			
KRY 112 71	A	From Leg	4.000	0.000	114.000	No Ice	0.583	0.398	0.013
			0.000			1/2"	0.688	0.488	0.018
			-2.000			Ice	0.799	0.586	0.025
						1" Ice			
KRY 112 71	B	From Leg	4.000	0.000	114.000	No Ice	0.583	0.398	0.013
			0.000			1/2"	0.688	0.488	0.018
			-2.000			Ice	0.799	0.586	0.025
						1" Ice			
KRY 112 71	C	From Leg	4.000	0.000	114.000	No Ice	0.583	0.398	0.013
			0.000			1/2"	0.688	0.488	0.018
			-2.000			Ice	0.799	0.586	0.025
						1" Ice			
RRUS 4415 B25_CCIV2	A	From Leg	4.000	0.000	114.000	No Ice	1.843	0.820	0.046
			0.000			1/2"	2.012	0.943	0.060
			0.000			Ice	2.190	1.075	0.077
						1" Ice			
RRUS 4415 B25_CCIV2	B	From Leg	4.000	0.000	114.000	No Ice	1.843	0.820	0.046
			0.000			1/2"	2.012	0.943	0.060
			0.000			Ice	2.190	1.075	0.077
						1" Ice			
RRUS 4415 B25_CCIV2	C	From Leg	4.000	0.000	114.000	No Ice	1.843	0.820	0.046
			0.000			1/2"	2.012	0.943	0.060
			0.000			Ice	2.190	1.075	0.077
						1" Ice			
RADIO 4449 B71 B85A_T-MOBILE	A	From Leg	4.000	0.000	114.000	No Ice	1.970	1.587	0.073
			0.000			1/2"	2.147	1.749	0.093
			0.000			Ice	2.331	1.918	0.116
						1" Ice			
RADIO 4449 B71 B85A_T-MOBILE	B	From Leg	4.000	0.000	114.000	No Ice	1.970	1.587	0.073
			0.000			1/2"	2.147	1.749	0.093
			0.000			Ice	2.331	1.918	0.116
						1" Ice			
RADIO 4449 B71 B85A_T-MOBILE	C	From Leg	4.000	0.000	114.000	No Ice	1.970	1.587	0.073
			0.000			1/2"	2.147	1.749	0.093
			0.000			Ice	2.331	1.918	0.116
						1" Ice			
Site Pro 1 SFS-H 48" Horizontal Angle Stabilizer Kit	A	From Leg	2.000	0.000	114.000	No Ice	2.680	1.970	0.066
			0.000			1/2"	3.130	2.330	0.084
			0.000			Ice	3.650	2.740	0.113
						1" Ice			
Site Pro 1 SFS-H 48" Horizontal Angle Stabilizer Kit	B	From Leg	2.000	0.000	114.000	No Ice	2.680	1.970	0.066
			0.000			1/2"	3.130	2.330	0.084
			0.000			Ice	3.650	2.740	0.113

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						1" Ice			
Site Pro 1 SFS-H 48" Horizontal Angle Stabilizer Kit	C	From Leg	2.000 0.000 0.000	0.000	114.000	No Ice 1/2" Ice 1" Ice	2.680 3.130 3.650	1.970 2.330 2.740	0.066 0.084 0.113
***									
Pipe Mount [PM 601-3]	C	None		0.000	103.000	No Ice 1/2" Ice 1" Ice	3.170 3.790 4.420	3.170 3.790 4.420	0.195 0.232 0.279
800MHZ 2X50W RRH W/FILTER	A	From Leg	2.000 0.000 -3.000	0.000	103.000	No Ice 1/2" Ice 1" Ice	2.058 2.240 2.429	1.932 2.109 2.293	0.064 0.086 0.111
800MHZ 2X50W RRH W/FILTER	B	From Leg	2.000 0.000 -3.000	0.000	103.000	No Ice 1/2" Ice 1" Ice	2.058 2.240 2.429	1.932 2.109 2.293	0.064 0.086 0.111
800MHZ 2X50W RRH W/FILTER	C	From Leg	2.000 0.000 -3.000	0.000	103.000	No Ice 1/2" Ice 1" Ice	2.058 2.240 2.429	1.932 2.109 2.293	0.064 0.086 0.111
PCS 1900MHZ 2X40W	A	From Leg	2.000 0.000 -3.000	0.000	103.000	No Ice 1/2" Ice 1" Ice	2.351 2.547 2.751	1.278 1.434 1.598	0.044 0.062 0.084
PCS 1900MHZ 2X40W	B	From Leg	2.000 0.000 -3.000	0.000	103.000	No Ice 1/2" Ice 1" Ice	2.351 2.547 2.751	1.278 1.434 1.598	0.044 0.062 0.084
PCS 1900MHZ 2X40W	C	From Leg	2.000 0.000 -3.000	0.000	103.000	No Ice 1/2" Ice 1" Ice	2.351 2.547 2.751	1.278 1.434 1.598	0.044 0.062 0.084
(2) 4'x2" Mount Pipe	A	From Leg	1.000 0.000 0.000	0.000	103.000	No Ice 1/2" Ice 1" Ice	0.866 1.111 1.365	0.866 1.111 1.365	0.015 0.022 0.032
(2) 4'x2" Mount Pipe	B	From Leg	1.000 0.000 0.000	0.000	103.000	No Ice 1/2" Ice 1" Ice	0.866 1.111 1.365	0.866 1.111 1.365	0.015 0.022 0.032
(2) 4'x2" Mount Pipe	C	From Leg	1.000 0.000 0.000	0.000	103.000	No Ice 1/2" Ice 1" Ice	0.866 1.111 1.365	0.866 1.111 1.365	0.015 0.022 0.032
***									
Sector Mount [SM 406-3]	C	None		0.000	100.000	No Ice 1/2" Ice 1" Ice	19.760 29.240 38.800	19.760 29.240 38.800	0.923 1.311 1.845
DT465B-2XR w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	100.000	No Ice 1/2" Ice 1" Ice	5.500 5.970 6.450	4.380 4.840 5.300	0.091 0.164 0.248
DT465B-2XR w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	100.000	No Ice 1/2" Ice 1" Ice	5.500 5.970 6.450	4.380 4.840 5.300	0.091 0.164 0.248
DT465B-2XR w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	100.000	No Ice 1/2" Ice 1" Ice	5.500 5.970 6.450	4.380 4.840 5.300	0.091 0.164 0.248
APXVSPP18-C-A20 w/ Mount Pipe	A	From Leg	4.000 0.000	0.000	100.000	No Ice 1/2"	4.600 5.050	4.010 4.450	0.095 0.160

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.000			Ice 1" Ice	5.500	4.890	0.235
APXVSPP18-C-A20 w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	100.000	No Ice 1/2" Ice 1" Ice	4.600 5.050 5.500	4.010 4.450 4.890	0.095 0.160 0.235
APXVSPP18-C-A20 w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	100.000	No Ice 1/2" Ice 1" Ice	4.600 5.050 5.500	4.010 4.450 4.890	0.095 0.160 0.235
RRH2X50-800	A	From Leg	4.000 0.000 -3.000	0.000	100.000	No Ice 1/2" Ice 1" Ice	1.701 1.864 2.035	1.282 1.428 1.580	0.053 0.070 0.090
RRH2X50-800	B	From Leg	4.000 0.000 -3.000	0.000	100.000	No Ice 1/2" Ice 1" Ice	1.701 1.864 2.035	1.282 1.428 1.580	0.053 0.070 0.090
RRH2X50-800	C	From Leg	4.000 0.000 -3.000	0.000	100.000	No Ice 1/2" Ice 1" Ice	1.701 1.864 2.035	1.282 1.428 1.580	0.053 0.070 0.090
TD-RRH8X20-25	A	From Leg	4.000 0.000 3.000	0.000	100.000	No Ice 1/2" Ice 1" Ice	4.045 4.298 4.557	1.535 1.714 1.901	0.070 0.097 0.128
TD-RRH8X20-25	B	From Leg	4.000 0.000 3.000	0.000	100.000	No Ice 1/2" Ice 1" Ice	4.045 4.298 4.557	1.535 1.714 1.901	0.070 0.097 0.128
TD-RRH8X20-25	C	From Leg	4.000 0.000 3.000	0.000	100.000	No Ice 1/2" Ice 1" Ice	4.045 4.298 4.557	1.535 1.714 1.901	0.070 0.097 0.128
10'x3" Horizontal Pipe	A	From Leg	4.000 0.000 0.000	0.000	100.000	No Ice 1/2" Ice 1" Ice	3.500 4.537 5.300	0.019 0.064 0.109	0.080 0.101 0.132
10'x3" Horizontal Pipe	B	From Leg	4.000 0.000 0.000	0.000	100.000	No Ice 1/2" Ice 1" Ice	3.500 4.537 5.300	0.019 0.064 0.109	0.080 0.101 0.132
10'x3" Horizontal Pipe	C	From Leg	4.000 0.000 0.000	0.000	100.000	No Ice 1/2" Ice 1" Ice	3.500 4.537 5.300	0.019 0.064 0.109	0.080 0.101 0.132
***									
Sector Mount [SM 408-3]	C	None		0.000	88.000	No Ice 1/2" Ice 1" Ice	22.380 33.310 44.350	22.380 33.310 44.350	1.019 1.459 2.064
Pipe Mount [PM 601-3]	C	None		0.000	88.000	No Ice 1/2" Ice 1" Ice	3.170 3.790 4.420	3.170 3.790 4.420	0.195 0.232 0.279
(2) MX06FRO660-03 w/ Mount Pipe	A	From Leg	4.000 0.000 2.000	0.000	88.000	No Ice 1/2" Ice 1" Ice	6.540 7.060 7.600	5.550 6.050 6.570	0.103 0.185 0.277
(2) MX06FRO660-03 w/ Mount Pipe	B	From Leg	4.000 0.000 2.000	0.000	88.000	No Ice 1/2" Ice 1" Ice	6.540 7.060 7.600	5.550 6.050 6.570	0.103 0.185 0.277
(2) MX06FRO660-03 w/ Mount Pipe	C	From Leg	4.000 0.000	0.000	88.000	No Ice 1/2"	6.540 7.060	5.550 6.050	0.103 0.185

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			2.000			Ice 1" Ice	7.600	6.570	0.277
MT6407-77A w/ Mount Pipe	A	From Leg	4.000 0.000 2.000	0.000	88.000	No Ice 1/2" Ice 1" Ice	4.907 5.256 5.615	2.682 3.145 3.624	0.096 0.136 0.180
MT6407-77A w/ Mount Pipe	B	From Leg	4.000 0.000 2.000	0.000	88.000	No Ice 1/2" Ice 1" Ice	4.907 5.256 5.615	2.682 3.145 3.624	0.096 0.136 0.180
MT6407-77A w/ Mount Pipe	C	From Leg	4.000 0.000 2.000	0.000	88.000	No Ice 1/2" Ice 1" Ice	4.907 5.256 5.615	2.682 3.145 3.624	0.096 0.136 0.180
(2) LPA-80063/4CF w/ Mount Pipe	A	From Leg	4.000 0.000 2.000	0.000	88.000	No Ice 1/2" Ice 1" Ice	6.385 6.784 7.192	6.603 7.232 7.876	0.038 0.104 0.176
(2) LPA-80063/4CF w/ Mount Pipe	B	From Leg	4.000 0.000 2.000	0.000	88.000	No Ice 1/2" Ice 1" Ice	6.385 6.784 7.192	6.603 7.232 7.876	0.038 0.104 0.176
(2) LPA-80063/4CF w/ Mount Pipe	C	From Leg	4.000 0.000 2.000	0.000	88.000	No Ice 1/2" Ice 1" Ice	6.385 6.784 7.192	6.603 7.232 7.876	0.038 0.104 0.176
RFV01U-D1A	A	From Leg	4.000 0.000 2.000	0.000	88.000	No Ice 1/2" Ice 1" Ice	1.875 2.045 2.223	1.250 1.393 1.543	0.084 0.103 0.124
RFV01U-D1A	B	From Leg	4.000 0.000 2.000	0.000	88.000	No Ice 1/2" Ice 1" Ice	1.875 2.045 2.223	1.250 1.393 1.543	0.084 0.103 0.124
RFV01U-D1A	C	From Leg	4.000 0.000 2.000	0.000	88.000	No Ice 1/2" Ice 1" Ice	1.875 2.045 2.223	1.250 1.393 1.543	0.084 0.103 0.124
RFV01U-D2A	A	From Leg	4.000 0.000 2.000	0.000	88.000	No Ice 1/2" Ice 1" Ice	1.875 2.045 2.223	1.013 1.145 1.284	0.070 0.087 0.106
RFV01U-D2A	B	From Leg	4.000 0.000 2.000	0.000	88.000	No Ice 1/2" Ice 1" Ice	1.875 2.045 2.223	1.013 1.145 1.284	0.070 0.087 0.106
RFV01U-D2A	C	From Leg	4.000 0.000 2.000	0.000	88.000	No Ice 1/2" Ice 1" Ice	1.875 2.045 2.223	1.013 1.145 1.284	0.070 0.087 0.106
RVZDC-6627-PF-48_CCIV2	A	From Leg	4.000 0.000 2.000	0.000	88.000	No Ice 1/2" Ice 1" Ice	4.056 4.316 4.582	3.098 3.335 3.580	0.032 0.068 0.109
***									
APXV18-206517S-C w/ Mount Pipe	A	From Leg	1.000 0.000 0.000	0.000	65.000	No Ice 1/2" Ice 1" Ice	3.790 4.380 4.990	3.160 3.750 4.350	0.053 0.094 0.145
APXV18-206517S-C w/ Mount Pipe	B	From Leg	1.000 0.000 0.000	0.000	65.000	No Ice 1/2" Ice 1" Ice	3.790 4.380 4.990	3.160 3.750 4.350	0.053 0.094 0.145
APXV18-206517S-C w/ Mount Pipe	C	From Leg	1.000 0.000	0.000	65.000	No Ice 1/2"	3.790 4.380	3.160 3.750	0.053 0.094

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.000			Ice 1" Ice	4.990	4.350	0.145
***									
GPS-TMG-HR-26NCM	C	From Leg	1.000 0.000 0.000	0.000	50.000	No Ice 1/2" Ice 1" Ice	0.133 0.183 0.239	0.133 0.183 0.239	0.001 0.002 0.005
4'x2" Mount Pipe	C	From Leg	0.500 0.000 0.000	0.000	50.000	No Ice 1/2" Ice 1" Ice	0.866 1.111 1.365	0.866 1.111 1.365	0.015 0.022 0.032
***									

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft		Aperture Area ft^2	Weight K
HPLPD1-18	A	Paraboloid w/Shroud (HP)	From Leg	4.000 0.000 0.000	-27.000		150.000	1.140	No Ice 1/2" Ice 1" Ice	1.021 1.175 1.330	0.017 0.023 0.029
HPLPD1-18	B	Paraboloid w/Shroud (HP)	From Leg	4.000 0.000 0.000	-11.000		150.000	1.140	No Ice 1/2" Ice 1" Ice	1.021 1.175 1.330	0.017 0.023 0.029
***											

Truss-Leg Properties

Section Designation	Area in^2	Area Ice in^2	Self Weight K	Ice Weight K	Equiv. Diameter in	Equiv. Diameter Ice in	Leg Area in^2
Pirod 105244	1026.861	2789.265	0.563	0.238	7.131	19.370	3.682
Pirod 105216	1998.089	5196.644	0.505	0.451	6.938	18.044	3.682
Pirod 105217	2130.748	5308.828	0.619	0.448	7.398	18.433	5.301
Pirod 105218	2263.469	5385.960	0.755	0.440	7.859	18.701	7.216
Pirod 105218	2263.469	5150.929	0.755	0.410	7.859	17.885	7.216
Pirod 105219	2441.869	5046.804	0.944	0.374	8.479	17.524	9.425

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

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

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
T1	150 - 147.583	Leg	Max Tension	1	0.000	0.000	0.000
			Max. Compression	31	-2.326	-0.058	0.021
			Max. Mx	10	-0.962	-0.193	0.076
			Max. My	19	-0.639	0.091	-0.140
			Max. Vy	10	0.087	0.000	0.000
			Max. Vx	19	0.061	0.000	0.000
		Diagonal	Max Tension	21	2.397	0.000	0.000
			Max. Compression	20	-2.445	0.000	0.000
			Max. Mx	26	-0.029	0.003	0.000
			Max. Vy	26	-0.004	0.000	0.000
		Top Girt	Max Tension	7	1.590	0.000	0.000
			Max. Compression	18	-1.604	0.055	-0.000
			Max. Mx	2	0.468	-0.154	-0.000
			Max. My	27	0.117	-0.081	-0.000
			Max. Vy	2	-0.087	-0.154	-0.000
			Max. Vx	27	-0.000	0.000	0.000
T2	147.583 - 130	Leg	Max Tension	15	27.490	0.641	0.099
			Max. Compression	18	-33.415	0.300	0.040

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Mx	3	-32.013	-0.647	-0.101
			Max. My	24	-3.507	-0.001	-0.789
			Max. Vy	2	-2.877	0.312	0.049
			Max. Vx	24	-3.211	0.013	0.322
		Diagonal	Max Tension	9	4.271	0.000	0.000
			Max. Compression	8	-4.479	0.000	0.000
			Max. Mx	35	0.581	-0.003	-0.000
			Max. My	22	-3.798	-0.001	-0.001
			Max. Vy	35	0.006	-0.003	-0.000
			Max. Vx	22	0.000	-0.001	-0.001
		Horizontal	Max Tension	14	0.692	0.000	0.000
			Max. Compression	3	-0.398	0.000	0.000
			Max. Mx	26	0.371	0.011	0.000
			Max. Vy	26	-0.010	0.000	0.000
		Top Girt	Max Tension	10	0.183	0.000	0.000
			Max. Compression	23	-0.137	0.000	0.000
			Max. Mx	26	0.039	0.010	0.000
			Max. Vy	26	-0.010	0.000	0.000
		Bottom Girt	Max Tension	14	1.711	0.000	0.000
			Max. Compression	3	-1.555	0.000	0.000
			Max. Mx	26	0.043	0.012	0.000
			Max. Vy	26	-0.011	0.000	0.000
T3	130 - 110	Leg	Max Tension	15	69.966	0.592	0.049
			Max. Compression	2	-80.796	2.192	0.165
			Max. Mx	6	67.694	-2.260	-0.160
			Max. My	24	-6.758	-0.046	2.063
			Max. Vy	6	4.907	-2.260	-0.160
			Max. Vx	24	-4.296	-0.046	2.063
		Diagonal	Max Tension	9	5.669	0.000	0.000
			Max. Compression	8	-5.862	0.000	0.000
			Max. Mx	35	1.023	-0.005	-0.000
			Max. My	22	-4.505	-0.001	-0.002
			Max. Vy	35	0.008	-0.005	-0.000
			Max. Vx	22	0.001	0.000	0.000
		Horizontal	Max Tension	14	1.199	0.000	0.000
			Max. Compression	3	-0.996	0.000	0.000
			Max. Mx	26	0.290	0.014	0.000
			Max. Vy	26	-0.011	0.000	0.000
		Top Girt	Max Tension	10	1.708	0.000	0.000
			Max. Compression	7	-1.679	0.000	0.000
			Max. Mx	26	0.011	0.014	0.000
			Max. Vy	26	-0.012	0.000	0.000
		Bottom Girt	Max Tension	14	2.361	0.000	0.000
			Max. Compression	3	-2.140	0.000	0.000
			Max. Mx	26	0.180	0.017	0.000
			Max. Vy	26	0.014	0.000	0.000
T4	110 - 100	Leg	Max Tension	15	73.108	-2.241	-0.164
			Max. Compression	2	-82.255	7.227	0.146
			Max. Mx	2	-82.255	7.227	0.146
			Max. My	24	-5.374	-0.046	2.061
			Max. Vy	2	-0.723	7.227	0.146
			Max. Vx	12	0.232	0.514	-1.871
		Diagonal	Max Tension	13	8.929	0.048	-0.010
			Max. Compression	24	-10.536	0.000	0.000
			Max. Mx	24	3.286	0.072	0.008
			Max. My	22	-3.280	-0.051	0.014
			Max. Vy	34	0.020	0.037	0.003
			Max. Vx	22	-0.003	0.000	0.000
		Top Girt	Max Tension	14	0.647	0.000	0.000
			Max. Compression	3	-0.277	0.000	0.000
			Max. Mx	26	0.293	-0.034	0.000
			Max. My	26	0.397	0.000	0.001
			Max. Vy	26	0.027	0.000	0.000
			Max. Vx	26	-0.001	0.000	0.000
T5	100 - 80	Leg	Max Tension	15	111.567	-3.208	0.008
			Max. Compression	2	-130.094	8.029	-0.039
			Max. Mx	2	-130.094	8.029	-0.039
			Max. My	5	-5.789	-0.747	-11.976
			Max. Vy	2	1.223	7.227	0.146

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vx	5	-2.415	-0.747	-11.976
		Diagonal	Max Tension	7	9.077	0.129	0.032
			Max. Compression	2	-9.571	0.000	0.000
			Max. Mx	2	6.510	0.208	-0.034
			Max. My	8	-7.481	-0.116	-0.049
			Max. Vy	2	-0.049	0.208	-0.034
			Max. Vx	8	0.009	0.000	0.000
		Top Girt	Max Tension	14	5.839	0.000	0.000
			Max. Compression	3	-4.846	0.000	0.000
			Max. Mx	26	0.976	-0.048	0.000
			Max. My	26	1.141	0.000	0.001
			Max. Vy	26	-0.032	0.000	0.000
			Max. Vx	26	-0.001	0.000	0.000
T6	80 - 60	Leg	Max Tension	15	152.858	-4.013	0.014
			Max. Compression	2	-175.846	5.770	-0.017
			Max. Mx	2	-152.021	8.029	-0.039
			Max. My	5	-8.814	-0.470	-8.734
			Max. Vy	2	0.613	8.029	-0.039
			Max. Vx	5	1.233	-0.470	-8.734
		Diagonal	Max Tension	8	8.487	0.000	0.000
			Max. Compression	18	-8.670	0.000	0.000
			Max. Mx	2	6.794	0.125	0.008
			Max. My	8	-8.153	-0.071	-0.023
			Max. Vy	35	-0.036	0.084	0.009
			Max. Vx	8	0.004	0.000	0.000
		Top Girt	Max Tension	14	5.723	0.000	0.000
			Max. Compression	3	-4.882	0.000	0.000
			Max. Mx	26	0.905	-0.084	0.000
			Max. My	26	0.988	0.000	0.002
			Max. Vy	26	0.042	0.000	0.000
			Max. Vx	26	-0.001	0.000	0.000
T7	60 - 40	Leg	Max Tension	15	188.989	-5.020	0.017
			Max. Compression	2	-215.810	6.382	0.001
			Max. Mx	2	-215.810	6.382	0.001
			Max. My	5	-10.762	0.043	-6.291
			Max. Vy	2	-0.252	6.382	0.001
			Max. Vx	5	0.364	0.043	-6.291
		Diagonal	Max Tension	8	8.293	0.000	0.000
			Max. Compression	8	-8.335	0.000	0.000
			Max. Mx	2	7.178	0.096	-0.006
			Max. My	24	7.074	0.075	0.011
			Max. Vy	33	0.039	0.070	-0.009
			Max. Vx	32	0.002	0.000	0.000
T8	40 - 20	Leg	Max Tension	15	222.550	-4.739	0.021
			Max. Compression	2	-253.879	5.850	-0.010
			Max. Mx	2	-235.136	6.382	0.001
			Max. My	5	-11.276	0.043	-6.291
			Max. Vy	37	0.498	-4.414	0.044
			Max. Vx	5	-0.403	-0.167	-5.915
		Diagonal	Max Tension	8	8.705	0.000	0.000
			Max. Compression	8	-8.918	0.000	0.000
			Max. Mx	2	6.972	0.152	-0.009
			Max. My	32	2.569	0.114	-0.015
			Max. Vy	33	0.057	0.104	-0.014
			Max. Vx	32	0.003	0.000	0.000
T9	20 - 0	Leg	Max Tension	15	252.920	-5.345	0.019
			Max. Compression	2	-289.142	0.000	-0.000
			Max. Mx	35	-110.486	6.104	-0.083
			Max. My	16	-19.454	-0.437	9.033
			Max. Vy	37	-0.834	-4.414	0.044
			Max. Vx	16	1.047	-0.437	9.033
		Diagonal	Max Tension	7	9.710	0.000	0.000
			Max. Compression	18	-10.512	0.000	0.000
			Max. Mx	2	6.679	0.142	-0.018
			Max. My	16	8.009	0.125	0.022
			Max. Vy	33	0.061	0.134	-0.014
			Max. Vx	32	0.004	0.000	0.000

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Leg C	Max. Vert	18	295.425	26.810	-14.675
	Max. H_x	18	295.425	26.810	-14.675
	Max. H_z	7	-257.557	-23.820	13.005
	Min. Vert	7	-257.557	-23.820	13.005
	Min. H_x	7	-257.557	-23.820	13.005
	Min. H_z	18	295.425	26.810	-14.675
Leg B	Max. Vert	10	291.422	-26.345	-14.458
	Max. H_x	23	-251.356	23.237	12.711
	Max. H_z	23	-251.356	23.237	12.711
	Min. Vert	23	-251.356	23.237	12.711
	Min. H_x	10	291.422	-26.345	-14.458
	Min. H_z	10	291.422	-26.345	-14.458
Leg A	Max. Vert	2	299.882	0.036	31.353
	Max. H_x	20	18.399	0.616	1.616
	Max. H_z	2	299.882	0.036	31.353
	Min. Vert	15	-261.903	-0.030	-27.748
	Min. H_x	9	13.391	-0.601	1.188
	Min. H_z	15	-261.903	-0.030	-27.748

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	48.782	0.000	0.000	15.187	-2.032	0.000
1.2 Dead+1.0 Wind 0 deg - No Ice	58.538	-0.018	-46.691	-3884.911	0.902	0.926
0.9 Dead+1.0 Wind 0 deg - No Ice	43.904	-0.018	-46.691	-3889.467	1.511	0.926
1.2 Dead+1.0 Wind 30 deg - No Ice	58.538	22.747	-39.516	-3321.872	-1925.064	21.091
0.9 Dead+1.0 Wind 30 deg - No Ice	43.904	22.747	-39.516	-3326.428	-1924.454	21.091
1.2 Dead+1.0 Wind 60 deg - No Ice	58.538	38.366	-22.207	-1872.775	-3271.790	18.654
0.9 Dead+1.0 Wind 60 deg - No Ice	43.904	38.366	-22.207	-1877.331	-3271.180	18.654
1.2 Dead+1.0 Wind 90 deg - No Ice	58.538	44.371	0.019	21.794	-3773.149	16.667
0.9 Dead+1.0 Wind 90 deg - No Ice	43.904	44.371	0.019	17.238	-3772.539	16.667
1.2 Dead+1.0 Wind 120 deg - No Ice	58.538	38.462	22.281	1901.621	-3252.639	17.452
0.9 Dead+1.0 Wind 120 deg - No Ice	43.904	38.462	22.281	1897.065	-3252.030	17.452
1.2 Dead+1.0 Wind 150 deg - No Ice	58.538	22.314	38.742	3285.322	-1885.772	16.171
0.9 Dead+1.0 Wind 150 deg - No Ice	43.904	22.314	38.742	3280.766	-1885.162	16.171
1.2 Dead+1.0 Wind 180 deg - No Ice	58.538	0.016	45.372	3836.375	-5.520	-0.967
0.9 Dead+1.0 Wind 180 deg - No Ice	43.904	0.016	45.372	3831.819	-4.910	-0.967
1.2 Dead+1.0 Wind 210 deg - No Ice	58.538	-22.647	39.361	3338.573	1907.142	-21.121
0.9 Dead+1.0 Wind 210 deg - No Ice	43.904	-22.647	39.361	3334.017	1907.751	-21.121
1.2 Dead+1.0 Wind 240 deg - No Ice	58.538	-39.204	22.677	1927.287	3301.883	-18.642
0.9 Dead+1.0 Wind 240 deg - No Ice	43.904	-39.204	22.677	1922.731	3302.493	-18.642
1.2 Dead+1.0 Wind 270 deg	58.538	-44.193	-0.014	15.426	3745.629	-16.684

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
- No Ice 0.9 Dead+1.0 Wind 270 deg	43.904	-44.193	-0.014	10.870	3746.239	-16.684
- No Ice 1.2 Dead+1.0 Wind 300 deg	58.538	-37.476	-21.706	-1833.370	3194.109	-17.496
- No Ice 0.9 Dead+1.0 Wind 300 deg	43.904	-37.476	-21.706	-1837.926	3194.719	-17.496
- No Ice 1.2 Dead+1.0 Wind 330 deg	58.538	-22.317	-38.738	-3248.291	1881.332	-16.201
- No Ice 0.9 Dead+1.0 Wind 330 deg	43.904	-22.317	-38.738	-3252.847	1881.941	-16.201
- No Ice 1.2 Dead+1.0 Ice+1.0 Temp	107.929	-0.000	0.000	42.216	-1.306	0.000
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	107.929	0.002	-12.508	-1017.078	-1.283	-1.806
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	107.929	6.152	-10.672	-867.585	-525.933	2.460
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	107.929	10.571	-6.118	-480.167	-904.433	3.628
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	107.929	12.260	-0.002	42.291	-1044.752	3.276
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	107.929	10.701	6.190	563.523	-902.681	4.464
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	107.929	6.143	10.664	942.977	-520.513	5.019
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	107.929	-0.002	12.261	1081.827	-1.270	1.797
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	107.929	-6.105	10.596	942.266	517.321	-2.467
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	107.929	-10.634	6.151	562.814	899.560	-3.625
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	107.929	-12.172	0.003	42.316	1030.916	-3.280
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	107.929	-10.563	-6.109	-474.719	892.820	-4.474
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	107.929	-6.144	-10.663	-858.413	518.000	-5.025
Dead+Wind 0 deg - Service	48.782	-0.005	-12.288	-1012.146	-1.153	0.242
Dead+Wind 30 deg - Service	48.782	5.987	-10.400	-863.952	-508.082	5.549
Dead+Wind 60 deg - Service	48.782	10.097	-5.845	-482.541	-862.554	4.909
Dead+Wind 90 deg - Service	48.782	11.678	0.005	16.126	-994.516	4.387
Dead+Wind 120 deg - Service	48.782	10.123	5.864	510.914	-857.514	4.594
Dead+Wind 150 deg - Service	48.782	5.873	10.196	875.116	-497.742	4.257
Dead+Wind 180 deg - Service	48.782	0.004	11.941	1020.156	-2.843	-0.253
Dead+Wind 210 deg - Service	48.782	-5.960	10.359	889.130	500.586	-5.557
Dead+Wind 240 deg - Service	48.782	-10.318	5.968	517.668	867.693	-4.906
Dead+Wind 270 deg - Service	48.782	-11.631	-0.004	14.451	984.494	-4.392
Dead+Wind 300 deg - Service	48.782	-9.863	-5.713	-472.171	839.332	-4.606
Dead+Wind 330 deg - Service	48.782	-5.874	-10.195	-844.589	493.794	-4.265

Solution Summary

Load Comb.	Sum of Applied Forces PX K	PY K	PZ K	Sum of Reactions PX K	PY K	PZ K	% Error
1	0.000	-48.782	0.000	0.000	48.782	-0.000	0.000%
2	-0.018	-58.538	-46.691	0.018	58.538	46.691	0.000%
3	-0.018	-43.904	-46.691	0.018	43.904	46.691	0.000%
4	22.747	-58.538	-39.516	-22.747	58.538	39.516	0.000%

Load Comb.	Sum of Applied Forces PX K	PY K	PZ K	Sum of Reactions PX K	PY K	PZ K	% Error
5	22.747	-43.904	-39.516	-22.747	43.904	39.516	0.000%
6	38.366	-58.538	-22.207	-38.366	58.538	22.207	0.000%
7	38.366	-43.904	-22.207	-38.366	43.904	22.207	0.000%
8	44.371	-58.538	0.019	-44.371	58.538	-0.019	0.000%
9	44.371	-43.904	0.019	-44.371	43.904	-0.019	0.000%
10	38.462	-58.538	22.281	-38.462	58.538	-22.281	0.000%
11	38.462	-43.904	22.281	-38.462	43.904	-22.281	0.000%
12	22.314	-58.538	38.742	-22.314	58.538	-38.742	0.000%
13	22.314	-43.904	38.742	-22.314	43.904	-38.742	0.000%
14	0.016	-58.538	45.372	-0.016	58.538	-45.372	0.000%
15	0.016	-43.904	45.372	-0.016	43.904	-45.372	0.000%
16	-22.647	-58.538	39.361	22.647	58.538	-39.361	0.000%
17	-22.647	-43.904	39.361	22.647	43.904	-39.361	0.000%
18	-39.204	-58.538	22.677	39.204	58.538	-22.677	0.000%
19	-39.204	-43.904	22.677	39.204	43.904	-22.677	0.000%
20	-44.193	-58.538	-0.014	44.193	58.538	0.014	0.000%
21	-44.193	-43.904	-0.014	44.193	43.904	0.014	0.000%
22	-37.476	-58.538	-21.706	37.476	58.538	21.706	0.000%
23	-37.476	-43.904	-21.706	37.476	43.904	21.706	0.000%
24	-22.317	-58.538	-38.738	22.317	58.538	38.738	0.000%
25	-22.317	-43.904	-38.738	22.317	43.904	38.738	0.000%
26	0.000	-107.929	0.000	0.000	107.929	-0.000	0.000%
27	0.002	-107.929	-12.508	-0.002	107.929	12.508	0.000%
28	6.152	-107.929	-10.672	-6.152	107.929	10.672	0.000%
29	10.571	-107.929	-6.118	-10.571	107.929	6.118	0.000%
30	12.260	-107.929	-0.002	-12.260	107.929	0.002	0.000%
31	10.701	-107.929	6.190	-10.701	107.929	-6.190	0.000%
32	6.143	-107.929	10.664	-6.143	107.929	-10.664	0.000%
33	-0.002	-107.929	12.261	0.002	107.929	-12.261	0.000%
34	-6.105	-107.929	10.596	6.105	107.929	-10.596	0.000%
35	-10.634	-107.929	6.151	10.634	107.929	-6.151	0.000%
36	-12.172	-107.929	0.003	12.172	107.929	-0.003	0.000%
37	-10.563	-107.929	-6.109	10.563	107.929	6.109	0.000%
38	-6.144	-107.929	-10.663	6.144	107.929	10.663	0.000%
39	-0.005	-48.782	-12.288	0.005	48.782	12.288	0.000%
40	5.987	-48.782	-10.400	-5.987	48.782	10.400	0.000%
41	10.097	-48.782	-5.845	-10.097	48.782	5.845	0.000%
42	11.678	-48.782	0.005	-11.678	48.782	-0.005	0.000%
43	10.123	-48.782	5.864	-10.123	48.782	-5.864	0.000%
44	5.873	-48.782	10.196	-5.873	48.782	-10.196	0.000%
45	0.004	-48.782	11.941	-0.004	48.782	-11.941	0.000%
46	-5.960	-48.782	10.359	5.960	48.782	-10.359	0.000%
47	-10.318	-48.782	5.968	10.318	48.782	-5.968	0.000%
48	-11.631	-48.782	-0.004	11.631	48.782	0.004	0.000%
49	-9.863	-48.782	-5.713	9.863	48.782	5.713	0.000%
50	-5.873	-48.782	-10.195	5.874	48.782	10.195	0.000%

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	150 - 147.583	5.846	46	0.373	0.119
T2	147.583 - 130	5.655	46	0.373	0.114
T3	130 - 110	4.278	46	0.345	0.069
T4	110 - 100	2.897	46	0.283	0.030
T5	100 - 80	2.325	46	0.250	0.019
T6	80 - 60	1.418	46	0.175	0.013
T7	60 - 40	0.771	46	0.119	0.009
T8	40 - 20	0.334	46	0.076	0.005
T9	20 - 0	0.088	39	0.033	0.003

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
150.000	HPLPD1-18	46	5.846	0.373	0.119	302669
144.000	RRUS 32 B2	46	5.371	0.371	0.106	629332
141.000	Sector Mount [SM 503-3]	46	5.133	0.368	0.099	94412
130.000	Side Arm Mount [SO 301-1]	46	4.278	0.345	0.069	23321
118.000	Side Arm Mount [SO 306-1]	46	3.415	0.309	0.043	16119
114.000	Sector Mount [SM 307-3]	46	3.149	0.296	0.036	14712
103.000	Pipe Mount [PM 601-3]	46	2.488	0.260	0.021	14331
100.000	Sector Mount [SM 406-3]	46	2.325	0.250	0.019	14727
90.000	7' Horizontal L3x3x3/16	46	1.835	0.212	0.014	16446
88.000	Sector Mount [SM 408-3]	46	1.746	0.204	0.014	16845
65.000	APXV18-206517S-C w/ Mount Pipe	46	0.912	0.131	0.010	22079
50.000	GPS-TMG-HR-26NCM	46	0.528	0.097	0.007	24612

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	150 - 147.583	22.202	3	1.404	0.451
T2	147.583 - 130	21.482	3	1.404	0.434
T3	130 - 110	16.286	3	1.306	0.262
T4	110 - 100	11.034	3	1.078	0.113
T5	100 - 80	8.859	3	0.951	0.071
T6	80 - 60	5.408	3	0.665	0.049
T7	60 - 40	2.944	3	0.451	0.033
T8	40 - 20	1.278	3	0.289	0.019
T9	20 - 0	0.335	3	0.125	0.010

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
150.000	HPLPD1-18	3	22.202	1.404	0.451	80456
144.000	RRUS 32 B2	3	20.412	1.398	0.404	94228
141.000	Sector Mount [SM 503-3]	3	19.516	1.386	0.375	28050
130.000	Side Arm Mount [SO 301-1]	3	16.286	1.306	0.262	6457
118.000	Side Arm Mount [SO 306-1]	3	13.007	1.176	0.162	4330
114.000	Sector Mount [SM 307-3]	3	11.996	1.127	0.136	3910
103.000	Pipe Mount [PM 601-3]	3	9.478	0.990	0.081	3763
100.000	Sector Mount [SM 406-3]	3	8.859	0.951	0.071	3866
90.000	7' Horizontal L3x3x3/16	3	6.995	0.807	0.055	4321
88.000	Sector Mount [SM 408-3]	3	6.656	0.778	0.053	4427
65.000	APXV18-206517S-C w/ Mount Pipe	3	3.480	0.497	0.037	5819
50.000	GPS-TMG-HR-26NCM	3	2.019	0.369	0.026	6479

Bolt Design Data

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load / Allowable	Allowable Ratio	Criteria
T2	147.583	Leg	A325N	0.625	5	6.683	27.612	0.242	1.05	Bolt DS
T3	130	Leg	A325N	1.000	6	11.661	54.517	0.214	1.05	Bolt Tension
T4	110	Leg	A325N	1.000	6	12.185	54.517	0.224	1.05	Bolt Tension
		Diagonal	A325N	1.000	1	8.929	10.663	0.837	1.05	Member Block Shear
		Top Girt	A325N	1.000	1	1.426	11.682	0.122	1.05	Member Block Shear
T5	100	Leg	A325N	1.000	6	18.595	54.517	0.341	1.05	Bolt Tension
		Diagonal	A325N	1.000	1	9.077	18.288	0.496	1.05	Member Block Shear
		Top Girt	A325N	1.000	1	5.839	11.682	0.500	1.05	Member Block Shear
T6	80	Leg	A325N	1.000	6	25.476	54.517	0.467	1.05	Bolt Tension
		Diagonal	A325N	1.000	1	8.487	11.682	0.726	1.05	Member Block Shear
		Top Girt	A325N	1.000	1	5.723	11.682	0.490	1.05	Member Block Shear
T7	60	Leg	A325N	1.000	6	31.498	54.517	0.578	1.05	Bolt Tension
		Diagonal	A325N	1.000	1	8.293	11.682	0.710	1.05	Member Block Shear
T8	40	Leg	A325N	1.000	6	37.092	54.517	0.680	1.05	Bolt Tension
		Diagonal	A325N	1.000	1	8.705	19.471	0.447	1.05	Member Block Shear
T9	20	Diagonal	A325N	1.250	1	9.710	20.303	0.478	1.05	Member Block Shear

Compression Checks

Leg Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	150 - 147.583	1 1/2	2.417	2.417	77.3 K=1.00	1.767	-2.326	51.350	0.045 [1]
T2	147.583 - 130	1 1/2	17.585	2.417	77.3 K=1.00	1.767	-30.485	51.350	0.594 [1]
T3	130 - 110	2	20.002	2.365	56.8 K=1.00	3.142	-76.707	111.705	0.687 [1]
T4	110 - 100	Pirod 105244	10.017	10.017	45.4 K=1.00	3.682	-82.255	142.493	0.577 [1]
T5	100 - 80	Pirod 105216	20.033	10.017	45.4 K=1.00	3.682	-130.094	142.493	0.913 [1]
T6	80 - 60	Pirod 105217	20.033	10.017	37.8 K=1.00	5.301	-175.846	214.859	0.818 [1]
T7	60 - 40	Pirod 105218	20.033	10.017	32.4 K=1.00	7.216	-215.810	300.681	0.718 [1]
T8	40 - 20	Pirod 105218	20.033	10.017	32.4 K=1.00	7.216	-253.879	300.681	0.844 [1]
T9	20 - 0	Pirod 105219	20.033	10.017	28.4 K=1.00	9.425	-289.142	399.868	0.723 [1]

[1] P_u / ϕP_n controls

Truss-Leg Diagonal Data

Section No.	Elevation ft	Diagonal Size	L_d ft	Kl/r	ϕP_n K	A in^2	V_u K	ϕV_n K	Stress Ratio
T4	110 - 100	0.5	1.483	121.0	165.670	0.196	0.724	3.389	0.214
T5	100 - 80	0.5	1.483	121.0	165.670	0.196	2.386	3.292	0.726
T6	80 - 60	0.5	1.471	120.0	238.565	0.196	1.243	3.335	0.374
T7	60 - 40	0.5	1.459	119.0	324.713	0.196	0.365	3.378	0.109
T8	40 - 20	0.5	1.459	119.0	324.713	0.196	0.498	3.378	0.147
T9	20 - 0	0.625	1.446	94.4	424.115	0.307	1.049	6.958	0.152

Diagonal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	150 - 147.583	3/4	3.157	3.060	137.1 K=0.70	0.442	-2.445	5.311	0.460 [1]
T2	147.583 - 130	3/4	5.074	2.483	143.0 K=0.90	0.442	-4.479	4.879	0.918 [1]
T3	130 - 110	7/8	5.491	2.670	131.8 K=0.90	0.601	-5.862	7.820	0.750 [1]
T4	110 - 100	L2 1/2x2 1/2x3/16	11.416	4.982	120.8 K=1.00	0.902	-10.536	17.576	0.599 [1]
T5	100 - 80	L2 1/2x2 1/2x3/8	12.503	5.669	139.7 K=1.00	1.730	-9.571	25.378	0.377 [1]
T6	80 - 60	L3x3x3/16	13.796	6.327	127.4 K=1.00	1.090	-8.397	19.221	0.437 [1]
T7	60 - 40	L3x3x3/16	15.243	7.082	142.6 K=1.00	1.090	-8.273	15.345	0.539 [1]
T8	40 - 20	L3x3x5/16	16.803	7.882	160.6 K=1.00	1.780	-8.918	19.756	0.451 [1]
T9	20 - 0	L3x3x5/16	18.448	8.677	176.8 K=1.00	1.780	-10.512	16.304	0.645 [1]

[1] P_u / ϕP_n controls

Horizontal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T2	147.583 - 130	7/8	4.432	4.307	165.4 K=0.70	0.601	-0.572	4.967	0.115 [1]
T3	130 - 110	7/8	4.926	4.760	182.8 K=0.70	0.601	-1.383	4.067	0.340 [1]

[1] P_u / ϕP_n controls

Top Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	150 - 147.583	5x1/2	4.000	2.906	241.6 K=1.00	2.500	-1.604	9.674	0.166 [1]
		KL/R > 200 (C) - 4							
T2	147.583 - 130	7/8	4.071	3.946	151.5	0.601	-0.579	5.917	0.098 [1]

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T3	130 - 110	1	4.513	4.346	K=0.70 146.0	0.785	-1.679	8.322	0.202 [1]
T4	110 - 100	L3x3x3/16	5.000	3.583	K=0.70 96.1	1.090	-1.426	27.281	0.052 [1]
T5	100 - 80	L3x3x3/16	6.000	4.583	K=1.33 106.1	1.090	-4.846	24.936	0.194 [1]
T6	80 - 60	L3x3x3/16	8.000	6.583	K=1.15 132.6	1.090	-4.882	17.757	0.275 [1]
					K=1.00				

[1] P_u / ϕP_n controls

Bottom Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T2	147.583 - 130	7/8	4.492	4.367	167.7 K=0.70	0.601	-1.555	4.831	0.322 [1]
T3	130 - 110	1	4.985	4.819	161.9 K=0.70	0.785	-2.140	6.768	0.316 [1]

[1] P_u / ϕP_n controls

Tension Checks

Leg Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T2	147.583 - 130	1 1/2	17.585	0.333	10.7	1.767	27.490	79.522	0.346 [1]
T3	130 - 110	2	20.002	0.583	14.0	3.142	69.966	141.372	0.495 [1]
T4	110 - 100	Pirod 105244	10.017	10.017	45.4	3.682	73.108	165.670	0.441 [1]
T5	100 - 80	Pirod 105216	20.033	10.017	45.4	3.682	111.570	165.670	0.673 [1]
T6	80 - 60	Pirod 105217	20.033	10.017	37.8	5.301	152.858	238.565	0.641 [1]
T7	60 - 40	Pirod 105218	20.033	10.017	32.4	7.216	188.990	324.713	0.582 [1]
T8	40 - 20	Pirod 105218	20.033	10.017	32.4	7.216	222.550	324.713	0.685 [1]
T9	20 - 0	Pirod 105219	20.033	10.017	28.4	9.425	252.920	424.115	0.596 [1]

[1] P_u / ϕP_n controls

Truss-Leg Diagonal Data

Section No.	Elevation ft	Diagonal Size	L_d ft	Kl/r	ϕP_n K	A in^2	V_u K	ϕV_n K	Stress Ratio
T4	110 - 100	0.5	1.483	121.0	165.670	0.196	0.724	3.389	0.214
T5	100 - 80	0.5	1.483	121.0	165.670	0.196	2.386	3.292	0.726
T6	80 - 60	0.5	1.471	120.0	238.565	0.196	1.243	3.335	0.374
T7	60 - 40	0.5	1.459	119.0	324.713	0.196	0.365	3.378	0.109
T8	40 - 20	0.5	1.459	119.0	324.713	0.196	0.498	3.378	0.147
T9	20 - 0	0.625	1.446	94.4	424.115	0.307	1.049	6.958	0.152

Diagonal Design Data (Tension)

Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft		ft	ft		in^2	K	K	
T1	150 - 147.583	3/4	3.157	3.060	195.8	0.442	2.397	19.880	0.121 [1]
T2	147.583 - 130	3/4	5.074	2.483	158.9	0.442	4.271	19.880	0.215 [1]
T3	130 - 110	7/8	5.491	2.670	146.4	0.601	5.669	27.059	0.210 [1]
T4	110 - 100	L2 1/2x2 1/2x3/16	11.416	4.982	80.1	0.518	8.929	22.546	0.396 [1]
T5	100 - 80	L2 1/2x2 1/2x3/8	12.503	5.669	93.0	0.981	9.077	42.678	0.213 [1]
T6	80 - 60	L3x3x3/16	13.796	6.327	83.5	0.659	8.487	28.679	0.296 [1]
T7	60 - 40	L3x3x3/16	14.503	6.726	88.6	0.659	8.293	28.679	0.289 [1]
T8	40 - 20	L3x3x5/16	16.010	7.495	100.3	1.071	8.705	46.603	0.187 [1]
T9	20 - 0	L3x3x5/16	18.448	8.677	116.2	1.013	9.710	44.054	0.220 [1]

[1] P_u / ϕP_n controls

Horizontal Design Data (Tension)

Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft		ft	ft		in^2	K	K	
T2	147.583 - 130	7/8	4.371	4.246	232.9	0.601	0.692	27.059	0.026 [1]
T3	130 - 110	7/8	4.867	4.701	257.9	0.601	1.383	27.059	0.051 [1]

[1] P_u / ϕP_n controls

Top Girt Design Data (Tension)

Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft		ft	ft		in^2	K	K	
T1	150 - 147.583	5x1/2	4.000	2.906	241.6	2.500	1.590	81.000	0.020 [1]
T2	147.583 - 130	7/8	4.071	3.946	216.5	0.601	0.579	27.059	0.021 [1]
T3	130 - 110	1	4.513	4.346	208.6	0.785	1.708	35.343	0.048 [1]
T4	110 - 100	L3x3x3/16	5.000	3.583	51.1	0.659	1.426	28.679	0.050 [1]
T5	100 - 80	L3x3x3/16	6.000	4.583	63.9	0.659	5.839	28.679	0.204 [1]
T6	80 - 60	L3x3x3/16	8.000	6.583	89.5	0.659	5.723	28.679	0.200 [1]

[1] P_u / ϕP_n controls

Bottom Girt Design Data (Tension)

Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft		ft	ft		in^2	K	K	
T2	147.583 - 130	7/8	4.492	4.367	239.5	0.601	1.711	27.059	0.063 [1]
T3	130 - 110	1	4.985	4.819	231.3	0.785	2.361	35.343	0.067 [1]

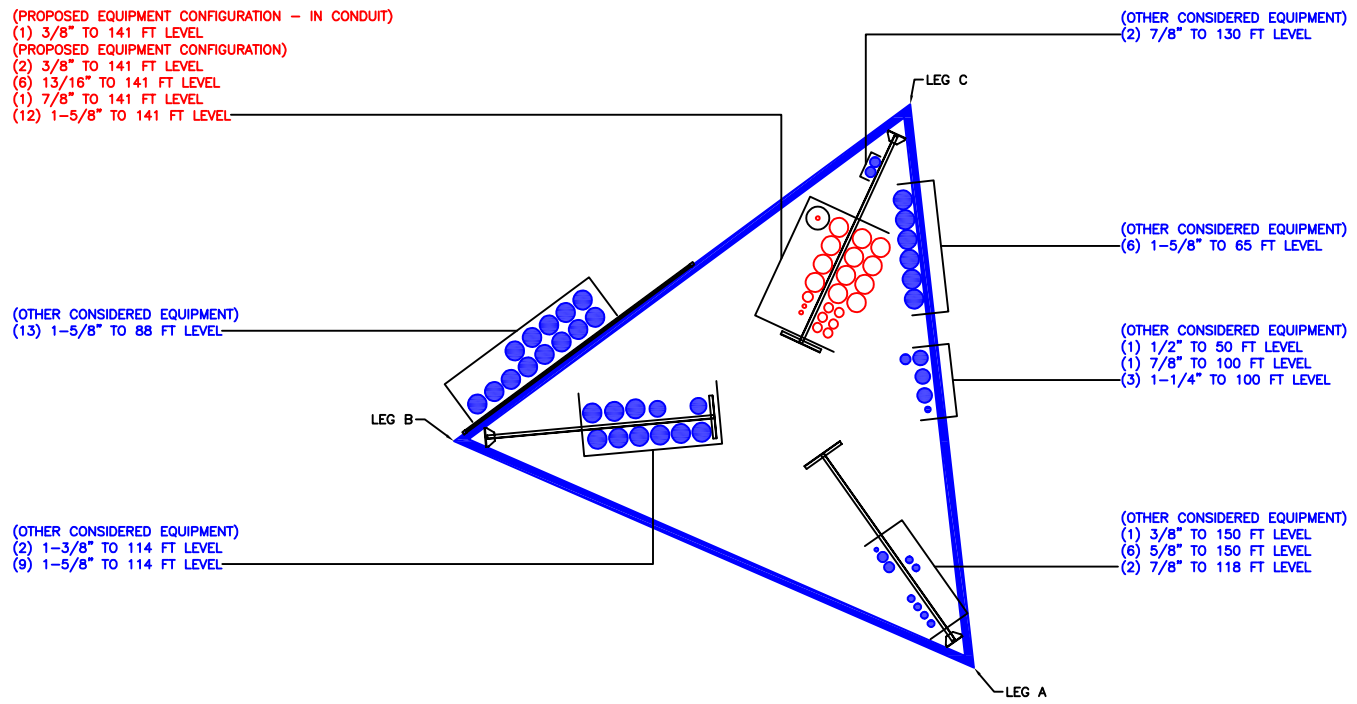
[1] P_u / ϕP_n controls

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
T1	150 - 147.583	Leg	1 1/2	2	-2.326	53.917	4.3	Pass
T2	147.583 - 130	Leg	1 1/2	13	-30.485	53.917	56.5	Pass
T3	130 - 110	Leg	2	72	-76.707	117.290	65.4	Pass
T4	110 - 100	Leg	Pirod 105244	136	-82.255	149.618	55.0	Pass
T5	100 - 80	Leg	Pirod 105216	148	-130.094	149.618	87.0	Pass
T6	80 - 60	Leg	Pirod 105217	166	-175.846	225.602	77.9	Pass
T7	60 - 40	Leg	Pirod 105218	184	-215.810	315.715	68.4	Pass
T8	40 - 20	Leg	Pirod 105218	199	-253.879	315.715	80.4	Pass
T9	20 - 0	Leg	Pirod 105219	214	-289.142	419.861	68.9	Pass
T1	150 - 147.583	Diagonal	3/4	7	-2.445	5.577	43.8	Pass
T2	147.583 - 130	Diagonal	3/4	23	-4.479	5.123	87.4	Pass
T3	130 - 110	Diagonal	7/8	80	-5.862	8.211	71.4	Pass
T4	110 - 100	Diagonal	L2 1/2x2 1/2x3/16	144	-10.536	18.455	57.1	Pass
T5	100 - 80	Diagonal	L2 1/2x2 1/2x3/8	156	-9.571	26.646	35.9	Pass
T6	80 - 60	Diagonal	L3x3x3/16	171	-8.397	20.182	41.6	Pass
T7	60 - 40	Diagonal	L3x3x3/16	186	-8.273	16.112	51.3	Pass
T8	40 - 20	Diagonal	L3x3x5/16	201	-8.918	20.744	43.0	Pass
T9	20 - 0	Diagonal	L3x3x5/16	215	-10.512	17.119	61.4	Pass
T2	147.583 - 130	Horizontal	7/8	28	-0.572	5.216	11.0	Pass
T3	130 - 110	Horizontal	7/8	85	-1.383	4.270	32.4	Pass
T1	150 - 147.583	Top Girt	5x1/2	4	-1.604	10.158	15.8	Pass
T2	147.583 - 130	Top Girt	7/8	18	-0.579	6.213	9.3	Pass
T3	130 - 110	Top Girt	1	74	-1.679	8.738	19.2	Pass
T4	110 - 100	Top Girt	L3x3x3/16	138	-1.426	28.645	5.0	Pass
T5	100 - 80	Top Girt	L3x3x3/16	149	5.839	30.113	19.4	Pass
T6	80 - 60	Top Girt	L3x3x3/16	167	-4.882	18.645	26.2	Pass
T2	147.583 - 130	Bottom Girt	7/8	19	-1.555	5.073	30.7	Pass
T3	130 - 110	Bottom Girt	1	76	-2.140	7.107	30.1	Pass
							Summary	
						Leg (T5)	87.0	Pass
						Diagonal (T2)	87.4	Pass
						Horizontal (T3)	32.4	Pass
						Top Girt (T6)	26.2	Pass
						Bottom Girt (T2)	30.7	Pass
						Bolt Checks	79.8	Pass
						RATING =	**87.4**	**Pass**

APPENDIX B

BASE LEVEL DRAWING



BUSINESS UNIT: 842870 TOWER ID: C_BASELEVEL

APPENDIX C

ADDITIONAL CALCULATIONS

Self Support Anchor Rod Capacity

Site Info	
BU #	842870
Site Name	MILFORD
Order #	556511 Rev. 0

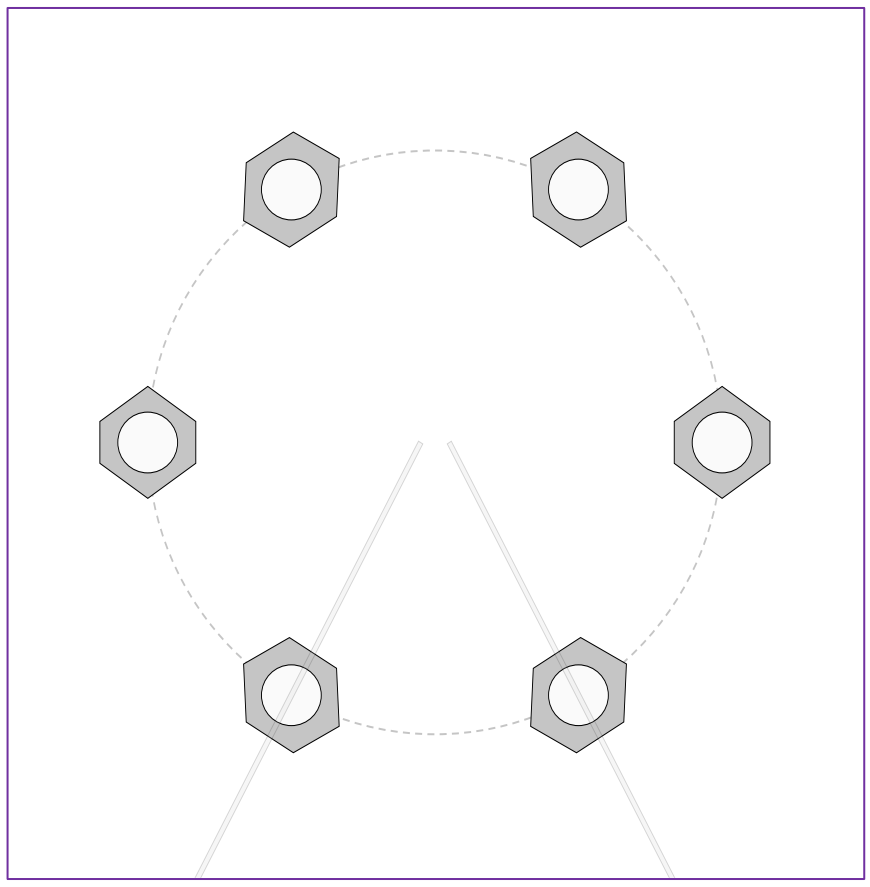
Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	Yes
l_{ar} (in)	2.75

Applied Loads		
	Comp.	Uplift
Axial Force (kips)	299.88	261.90
Shear Force (kips)	31.35	27.75

**TIA-222-H Section 15.5 Applied*

Considered Eccentricity	
Leg Mod Eccentricity (in)	0.000
Anchor Rod N.A Shift (in)	0.000
Total Eccentricity (in)	0.000

**Anchor Rod Eccentricity Applied*



Connection Properties

Anchor Rod Data

(6) 1-1/4" ø bolts (A687 N; Fy=105 ksi, Fu=125 ksi)

l_{ar} (in): 2.75

Analysis Results

Anchor Rod Summary *(units of kips, kip-in)*

Pu_t = 43.65	ϕPn_t = 90.84	**Stress Rating**
Vu = 4.63	ϕVn = 57.52	**45.8%**
Mu = n/a	ϕMn = n/a	**Pass**

SST Unit Base Foundation

BU # :	842870
Site Name:	MILFORD
App. Number:	556511 Rev. 0
TIA-222 Revision:	H

Top & Bot. Pad Rein. Different?:	☐
Tower Centroid Offset?:	☐
Block Foundation?:	☐
Rectangular Pad?:	☐

Superstructure Analysis Reactions

Global Moment, **M**:	3884.91	ft-kips
Global Axial, **P**:	58.54	kips
Global Shear, **V**:	46.69	kips
Leg Compression, P_{comp}:	299.88	kips
Leg Comp. Shear, V_{u_comp}:	31.35	kips
Leg Uplift, P_{uplift}:	261.9	kips
Leg Uplift. Shear, V_{u_uplift}:	27.75	kips
Tower Height, **H**:	150	ft
Base Face Width, **BW**:	16	ft
BP Dist. Above Fdn, bp_{dist}:	5	in

Foundation Analysis Checks

	Capacity	Demand	Rating*	Check
Lateral (Sliding) (kips)	488.68	46.69	**9.1%**	**Pass**
Bearing Pressure (ksf)	9.00	1.86	**19.6%**	**Pass**
*Overturning (kip*ft)*	10545.32	4231.19	**40.1%**	**Pass**
*Pier Flexure (Comp.) (kip*ft)*	1650.88	101.89	**5.9%**	**Pass**
*Pier Flexure (Tension) (kip*ft)*	852.07	90.19	**10.1%**	**Pass**
Pier Compression (kip)	7592.08	309.18	**3.9%**	**Pass**
*Pad Flexure (kip*ft)*	10017.30	842.79	**8.0%**	**Pass**
Pad Shear - 1-way (kips)	1172.32	124.75	**10.1%**	**Pass**
Pad Shear - Comp 2-way (ksi)	0.164	0.026	**15.3%**	**Pass**
*Flexural 2-way (Comp) (kip*ft)*	9194.09	61.13	**0.6%**	**Pass**
Pad Shear - Tension 2-way (ksi)	0.164	0.024	**14.0%**	**Pass**
*Flexural 2-way (Tension) (kip*ft)*	9194.09	54.11	**0.6%**	**Pass**

**Rating per TIA-222-H Section 15.5*

Structural Rating*:	**15.3%**
Soil Rating*:	**40.1%**

Pier Properties

Pier Shape:	Circular	
Pier Diameter, **dpier**:	4.5	ft
Ext. Above Grade, **E**:	0.50	ft
Pier Rebar Size, **Sc**:	8	
Pier Rebar Quantity, **mc**:	16	
Pier Tie/Spiral Size, **St**:	4	
Pier Tie/Spiral Quantity, **mt**:	7	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier}:	3	in

Pad Properties

Depth, **D**:	6.50	ft
Pad Width, W_1:	29.50	ft
Pad Thickness, **T**:	3.75	ft
Pad Rebar Size (Bottom dir. 2), Sp_2:	9	
Pad Rebar Quantity (Bottom dir. 2), mp_2:	58	
Pad Clear Cover, cc_{pad}:	3	in

Material Properties

Rebar Grade, **Fy**:	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 Gross Bearing, Qult:	12.000	ksf
Cohesion, **Cu**:	0.000	ksf
Friction Angle, φ:	34	degrees
SPT Blow Count, N_{blows}:		
Base Friction, μ:	0.6	
Neglected Depth, **N**:	3.5	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, **gw**:	7	ft

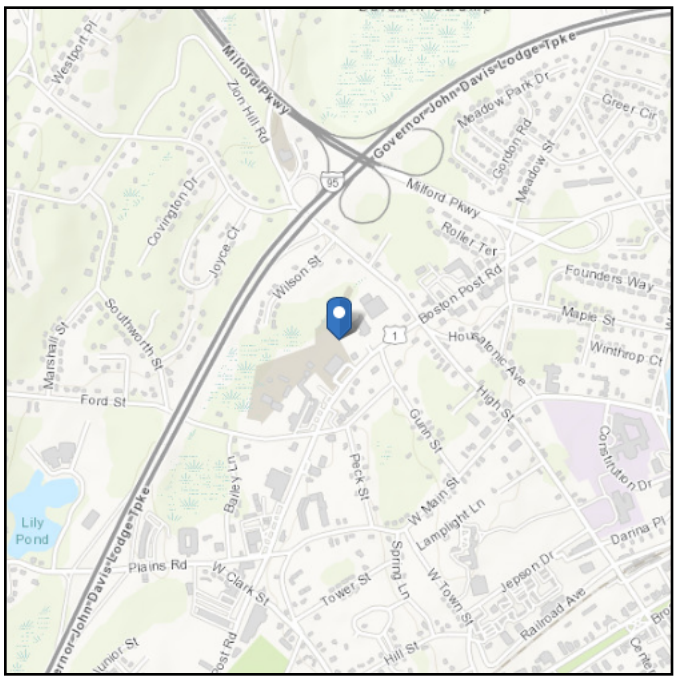
<-- Toggle between Gross and Net

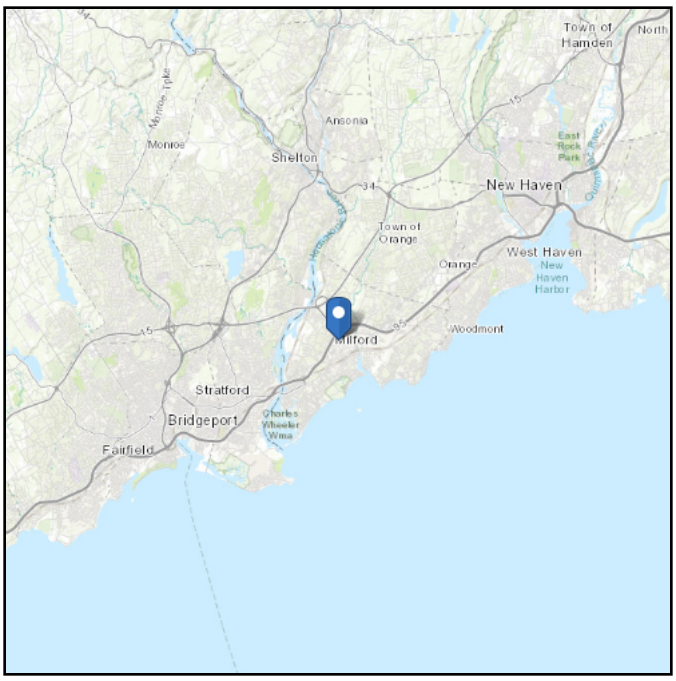
ASCE 7 Hazards Report

Address:
No Address at This Location

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

Elevation: 68.18 ft (NAVD 88)
Latitude: 41.228525
Longitude: -73.070131





Wind

Results:

Wind Speed	120 Vmph
10-year MRI	75 Vmph
25-year MRI	85 Vmph
50-year MRI	91 Vmph
100-year MRI	98 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed: Thu May 05 2022

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

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

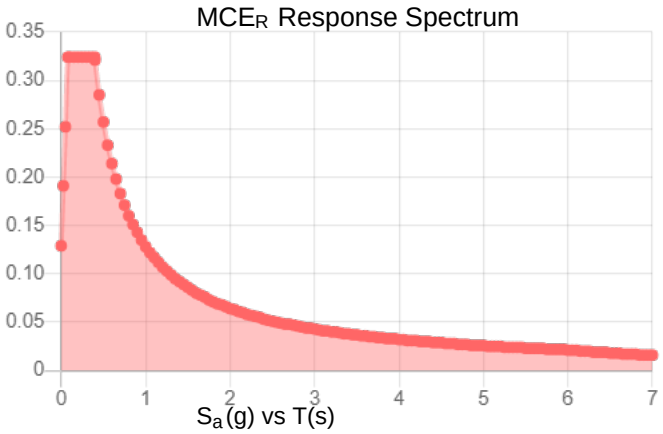
Seismic

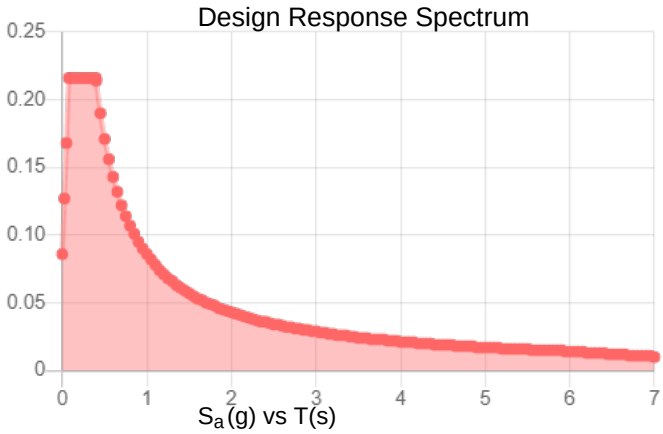
Site Soil Class: D - Default (see Section 11.4.3)

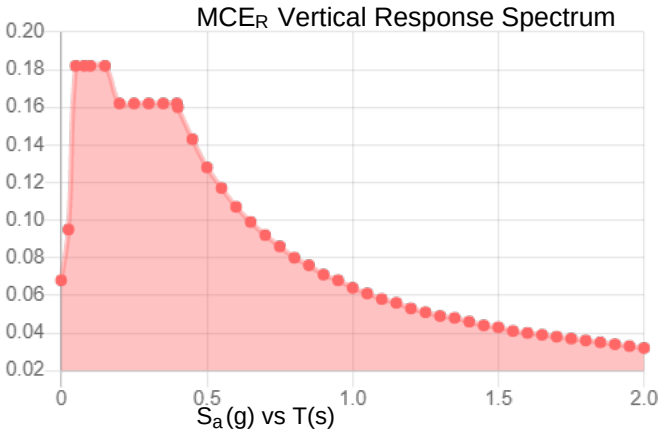
Results:

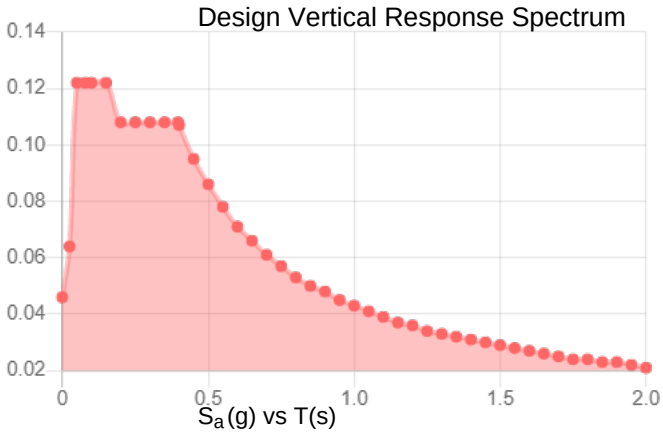
S_S :	0.202	S_{D1} :	0.086
S_1 :	0.053	T_L :	6
F_a :	1.6	PGA :	0.114
F_v :	2.4	PGA_M :	0.179
S_{MS} :	0.324	F_{PGA} :	1.572
S_{M1} :	0.128	I_e :	1
S_{DS} :	0.216	C_v :	0.705

Seismic Design Category B









Data Accessed: **Thu May 05 2022**

Date Source:

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

Ice

Results:

Ice Thickness:	1.00 in.
Concurrent Temperature:	15 F
Gust Speed	50 mph
Data Source:	Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8
Date Accessed:	Thu May 05 2022

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

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

AT&T

AT&T SITE NUMBER: CTL05099
AT&T SITE NAME: MILFORD
AT&T FA CODE: 10071130
AT&T PACE NUMBER: MRCTB062582, MRCTB057641, MRCTB057644, MRCTB052885, MRCTB052245, MRCTB051180, MRCTB051365, MRCTB051260, MRCTB051402
AT&T PROJECT: 4TX4RX SOFTWARE RETROFIT, 5G NR ACTIVATION, LTE 7C, 5G NR 1SR CBAND, CPRI CABLE, BBU RECONFIGURATION WITH NEW IDS, 4TXRX ANTENNA RETROFIT

BUSINESS UNIT #: 842870
SITE ADDRESS: 434 BOSTON POST ROAD MILFORD, CT 06460
COUNTY: NEW HAVEN
SITE TYPE: SELF SUPPORT TOWER
TOWER HEIGHT: 150'-0"

SITE INFORMATION

CROWN CASTLE USA INC. SITE NAME:	MILFORD
SITE ADDRESS:	434 BOSTON POST ROAD MILFORD, CT 06460
COUNTY:	NEW HAVEN
MAP/PARCEL #:	064 930 7
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41.228528°
LONGITUDE:	-73.070139°
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	70'
CURRENT ZONING:	CDD-1
JURISDICTION:	CONNECTICUT SITTING COUNCIL
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	GOLD COAST REALTY LLC 470 BOSTON POST RD MILFORD, CT 06460
TOWER OWNER:	CROWN CASTLE USA INC 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	AT&T TOWER ASSET GROUP 575 MOROSGO DRIVE ATLANTA, GA 30324-3300
ELECTRIC PROVIDER:	UNITED ILLUMINATING CO. (203) 499-2000
TELCO PROVIDER:	LIGHTOWER (855) 91-FIBER

PROJECT TEAM

A&E FIRM:	B+T GROUP 1717 S. BOULDER AVE. TULSA, OK 74119 MARVIN PHILLIPS MARVIN.PHILLIPS@BTGRP.COM
CROWN CASTLE USA INC. DISTRICT CONTACTS:	3 CORPORATE PARK DRIVE, SUITE 101 CLIFTON PARK, NY 12065 VERONICA CHAPMAN - PROJECT MANAGER VERONICA.CHAPMAN@CROWNCASTLE.COM JASON D'AMICO - CONSTRUCTION MANAGER JASON.DAMICO@CROWNCASTLE.COM HEATHER MILLER - AES HEATHER.MILLER@CROWNCASTLE.COM

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

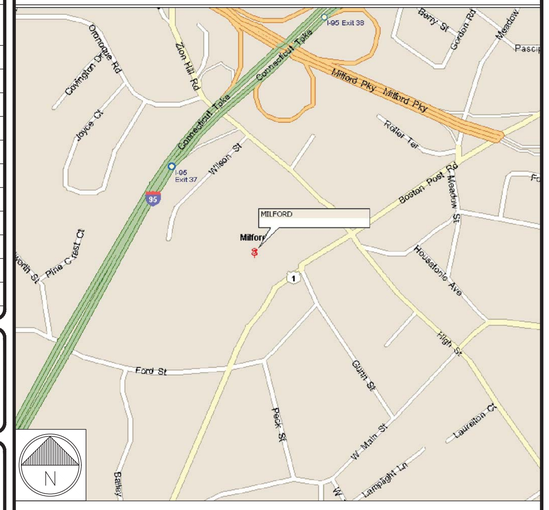
DRAWING INDEX

SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1.1	SITE PLAN
C-1.2	EQUIPMENT PLANS
C-2	TOWER ELEVATION & ANTENNA PLANS
C-3	ANTENNA SCHEDULE
C-4	EQUIPMENT DETAILS
C-5	EQUIPMENT SPECS.
G-1	GROUNDING DETAILS
G-2	GROUNDING DETAILS
ATTACHED	PLUMBING DIAGRAM

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

CALL CONNECTICUT ONE CALL
(800) 922-4455 CBYD.COM
CALL 2 WORKING DAYS
BEFORE YOU DIG!

LOCATION MAP



NO SCALE

SITE PHOTO

PROJECT DESCRIPTION

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

TOWER SCOPE OF WORK:
- REMOVE (3) POWERWAVE - 7770 ANTENNAS
- REMOVE (3) CCI - OPA-65R-LCUU-H4 ANTENNAS
- REMOVE (3) KATHREIN - 80010964 ANTENNAS
- REMOVE (3) ANDREW - SBNHH-1D65A ANTENNAS
- REMOVE (3) ERICSSON - RRUS 11 B2 RRUs
- REMOVE (3) ERICSSON - 4478 B5 RRUs
- REMOVE (6) POWERWAVE TECH - LGP21401 TMAs
- REMOVE (6) KAELUS - DBCT108F1V92-1 DIPLEXERS
- REMOVE (1) RAYCAP - DC6-48-60-18-8F SQUID
- REMOVE (1) 18-PAIR FIBER CABLE (3/8")
- REMOVE (6) COAX CABLES (1-5/8")
- RELOCATE (3) ERICSSON - RRUS32 B2 RRUs
- RELOCATE (3) ERICSSON - RRU 4426 B66 RRUs
- RELOCATE (3) ERICSSON - RRUS32 B30 RRUs
- RELOCATE (3) ERICSSON - RRU 4478 B14 RRUs
- INSTALL (3) QUINTEL - QD4616-7 ANTENNAS
- INSTALL (6) ERICSSON - AIR6449 B77D (BELOW) + AIR6419 B77G (ABOVE) STACKED ANTENNAS
- INSTALL (3) CCI - DMP65R-BU4DA ANTENNAS
- INSTALL (3) ERICSSON - 4449 B5/B12 RRUs
- INSTALL (1) RAYCAP - DC9-48-60-24-8C-EV SQUID
- INSTALL (1) 6AWG DC CABLE (7/8")
- INSTALL (1) 24-PAIR FIBER CABLE (3/8")
- INSTALL (3) MOUNT PIPES W/ASSOCIATED HARDWARE
- INSTALL (6) DUAL RRU MOUNTS
- INSTALL (3) Y-CABLES FOR DUAL BAND RRUs

GROUND SCOPE OF WORK:
- REMOVE (3) EAST PENN 170AH BATTERY STRINGS
- REMOVE (1) 5216
- REMOVE (12) POWERWAVE - 78210250 DIPLEXERS
- INSTALL (3) ERICSSON - RRU 2012 B29
- INSTALL (3) VERTIV 48V RECTIFIERS
- INSTALL (1) VERTIV 48V BATTERY RACK
- INSTALL (5) EAST PENN 170AH BATTERY STRINGS
- INSTALL (1) 6648 W/ XCEDE CABLE

APPLICABLE CODES & REFERENCE DOCUMENTS

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

CODE TYPE	CODE
BUILDING	2018 CONNECTICUT SBC/2015 IBC
MECHANICAL	2018 CONNECTICUT SBC/2015 IMC
ELECTRICAL	2018 CONNECTICUT SBC/2017 NEC

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS:	BLACK & VEATCH CORP.
DATED:	5/9/22
MOUNT ANALYSIS:	TOWER ENGINEERING PROFESSIONALS
DATED:	4/28/22
RFDS REVISION:	FINAL
DATED:	5/25/22
ORDER ID:	556511
REVISION:	0

AT&T
575 MOROSGO DRIVE
ATLANTA, GA 30324-3300

CROWN CASTLE
3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

B+T GRP
MTS TELECOM, L.L.C.
1717 S. BOULDER,
SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
btwo@btgrp.com

AT&T SITE NUMBER: **CTL05099**

BU #: **842870**
MILFORD

434 BOSTON POST ROAD
MILFORD, CT 06460

EXISTING
150'-0" SELF SUPPORT TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	5/16/22	JHW	PRELIMINARY REVIEW	LR
0	6/10/22	TDG	CONSTRUCTION	LR

STATE OF CONNECTICUT
GREGORY D. GOULET
No. 23824
LICENSED
PROFESSIONAL ENGINEER
6/10/22

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

SHEET NUMBER: T-1
REVISION: 0

CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

1. NOTICE TO PROCEED– NO WORK SHALL COMMENCE PRIOR TO CROWN CASTLE USA INC. WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN CASTLE USA INC. NOC AT 800–788–7011 & THE CROWN CASTLE USA INC. CONSTRUCTION MANAGER.
2. "LOOK UP" – CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT:
THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR CROWN CASTLE USA INC. POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.
3. PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IS NOT LIMITED TO, BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD ZONE, ENVIRONMENTAL, AND ZONING. AFTER ONSITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL REQUIREMENTS.
4. ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN, AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND CROWN CASTLE USA INC. STANDARD CED–STD–10253, INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA–322 (LATEST EDITION).
5. ALL SITE WORK TO COMPLY WITH QAS–STD–10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE," CED–STD–10294 "STANDARD FOR INSTALLATION OF MOUNTS AND APPURTENANCES," AND LATEST VERSION OF ANSI/TIA–1019–A–2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."
6. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY CROWN CASTLE USA INC. PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
9. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
10. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION E) CONSTRUCTION SAFETY PROCEDURES.
11. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS, LATEST APPROVED REVISION.
12. CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
13. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, TOWER OWNER, CROWN CASTLE USA INC., AND/OR LOCAL UTILITIES.
14. THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS.
15. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS.
16. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
17. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS.
18. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
19. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
20. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
21. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.
22. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
   CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION
   CARRIER: AT&T
   TOWER OWNER: CROWN CASTLE USA INC.
2. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. IT IS ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
3. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.
4. NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.
5. SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.
6. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CROWN CASTLE.
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
8. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
9. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
10. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND CROWN CASTLE PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
11. CONTRACTOR IS TO PERFORM A SITE INVESTIGATION AND IS TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND GROUNDING PLAN DRAWINGS.
12. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF CROWN CASTLE USA INC.
13. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
14. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST–IN–PLACE CONCRETE.
2. UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf.
3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90°f AT TIME OF PLACEMENT.
4. CONCRETE EXPOSED TO FREEZE–THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER–TO–CEMENT RATIO (W/C) OF 0.45.
5. ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. ALL SPLICES SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (Fy) OF STANDARD DEFORMED BARS ARE AS FOLLOWS:
   #4 BARS AND SMALLER……………………40 ksi
   #5 BARS AND LARGER……………………60 ksi
6. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
   CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH……………3"
   CONCRETE EXPOSED TO EARTH OR WEATHER:
      #6 BARS AND LARGER……………………2"
      #5 BARS AND SMALLER……………………1–1/2"
   CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
      SLAB AND WALLS……………………3/4"
      BEAMS AND COLUMNS……………………1–1/2"
7. A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

GREENFIELD GROUNDING NOTES:

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
2. THE CONTRACTOR SHALL PERFORM IEEE FALL–OF–POTENTAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
6. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 BARE SOLID TINNED COPPER FOR OUTDOOR BTS.
7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.
8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
15. APPROVED ANTIOXIDANT COATINGS (i.e. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
17. MISCELLANEOUS ELECTRICAL AND NON–ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
18. BOND ALL METALLIC OBJECTS WITHIN 6 ft OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR.
19. GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON–METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (i.e., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN 3/4" NON–METALLIC, FLEXIBLE CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD–WELD TERMINATION POINT. THE EXPOSED END OF THE CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).
21. BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY).

ELECTRICAL INSTALLATION NOTES:

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
2. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
   - 4.1. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.
   - 4.2. ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 22,000 AIC MINIMUM. VERYIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADOPTED CODE PRE THE GOVERNING JURISDICTION.
5. EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR–CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
6. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (i.e. PANEL BOARD AND CIRCUIT ID'S).
7. PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
8. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
9. ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TYPE THHW, THWN, THWN–2, XHHW, XHHW–2, THW, THW–2, RHW, OR RHW–2 INSULATION UNLESS OTHERWISE SPECIFIED.
10. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THHW, THWN, THWN–2, XHHW, XHHW–2, THW, THW–2, RHW, OR RHW–2 INSULATION UNLESS OTHERWISE SPECIFIED.
11. POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI–CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.
12. POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI–CONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH TYPE THHW, THWN, THWN–2, XHHW, XHHW–2, THW, THW–2, RHW, OR RHW–2 INSULATION UNLESS OTHERWISE SPECIFIED.
13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP–STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75° C (90° C IF AVAILABLE).
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
15. ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
16. ELECTRICAL METALLIC TUBING (EMT) OR METAL–CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
17. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
18. LIQUID–TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID–TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION–TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND THE NEC.
21. WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREMOLD SPECMATE WIREWAY).
22. SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).
23. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON–PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES (i.e. POWDER–ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.
24. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY–COATED SHEET STEEL. SHALL MEET OR EXCEED UL 50 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3R (OR BETTER) FOR EXTERIOR LOCATIONS.
25. METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY–COATED OR NON–CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
26. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
27. THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR CROWN CASTLE USA INC. BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
28. THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
29. INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "AT&T".
30. ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

CONDUCTOR COLOR CODE

SYSTEM	CONDUCTOR	COLOR
120/240V, 1Ø	A PHASE	BLACK
	B PHASE	RED
	NEUTRAL	WHITE
	GROUND	GREEN
120/208V, 3Ø	A PHASE	BLACK
	B PHASE	RED
	C PHASE	BLUE
	NEUTRAL	WHITE
	GROUND	GREEN
277/480V, 3Ø	A PHASE	BROWN
	B PHASE	ORANGE OR PURPLE
	C PHASE	YELLOW
	NEUTRAL	GREY
	GROUND	GREEN
DC VOLTAGE	POS (+)	RED**
	NEG (–)	BLACK**

* SEE NEC 210.5(C)(1) AND (2)
** POLARITY MARKED AT TERMINATION

APWA UNIFORM COLOR CODE:

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

ABBREVIATIONS:

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

AT&T
575 MOROSGO DRIVE
ATLANTA, GA 30324-3300

CROWN CASTLE
3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

B+T GRP
MTS TELECOM, L.L.C.
1717 S. BOULDER,
SUITE 300
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btwo@btgrp.com

AT&T SITE NUMBER: **CTL05099**

BU #: **842870**
MILFORD

434 BOSTON POST ROAD
MILFORD, CT 06460

EXISTING
150'-0" SELF SUPPORT TOWER

ISSUED FOR:

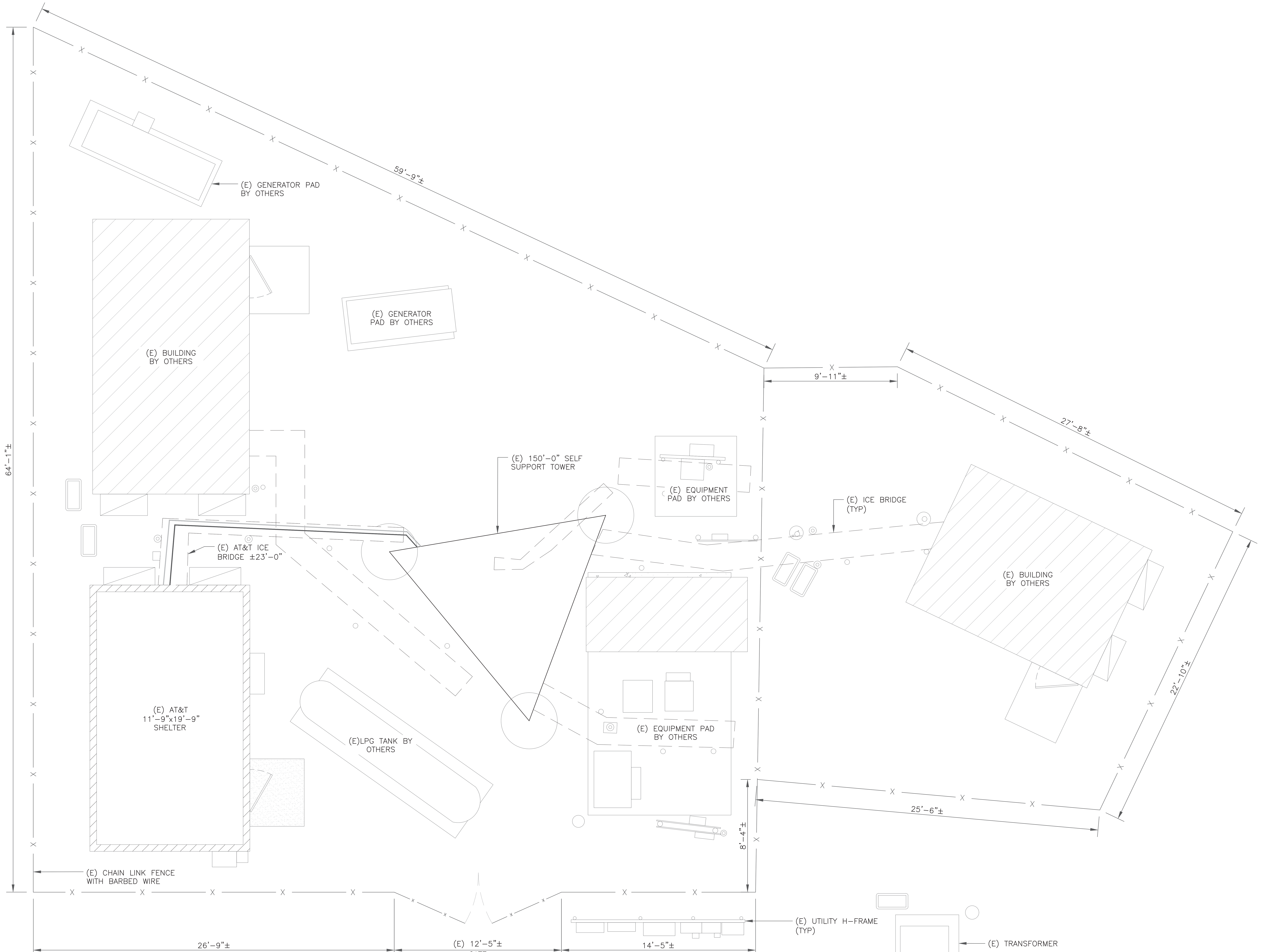
REV	DATE	DRWN	DESCRIPTION	DES./QA
A	5/16/22	JHW	PRELIMINARY REVIEW	LR
0	6/10/22	TDG	CONSTRUCTION	LR

No. 23924
6/10/22

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

IT IS A VIOLATION OF LAW FOR ANY PERSON,
UNLESS THEY ARE ACTING UNDER THE DIRECTION
OF A LICENSED PROFESSIONAL ENGINEER,
TO ALTER THIS DOCUMENT.

SHEET NUMBER: T-2
REVISION: 0



1 SITE PLAN

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

N

AT&T

575 MOROSGO DRIVE
ATLANTA, GA 30324-3300

CROWN CASTLE

3 CORPORATE PARK DRIVE, SUITE 101
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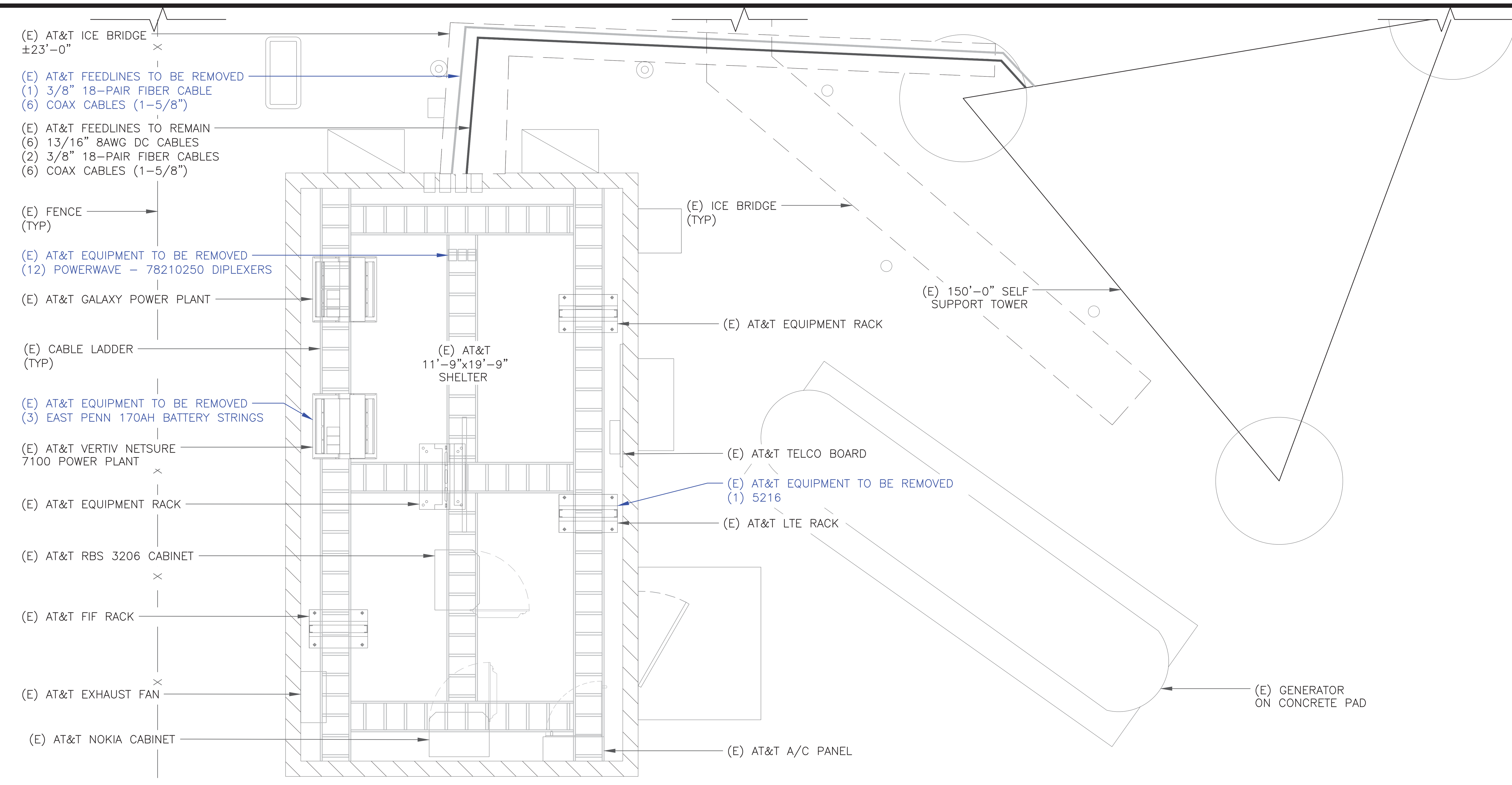
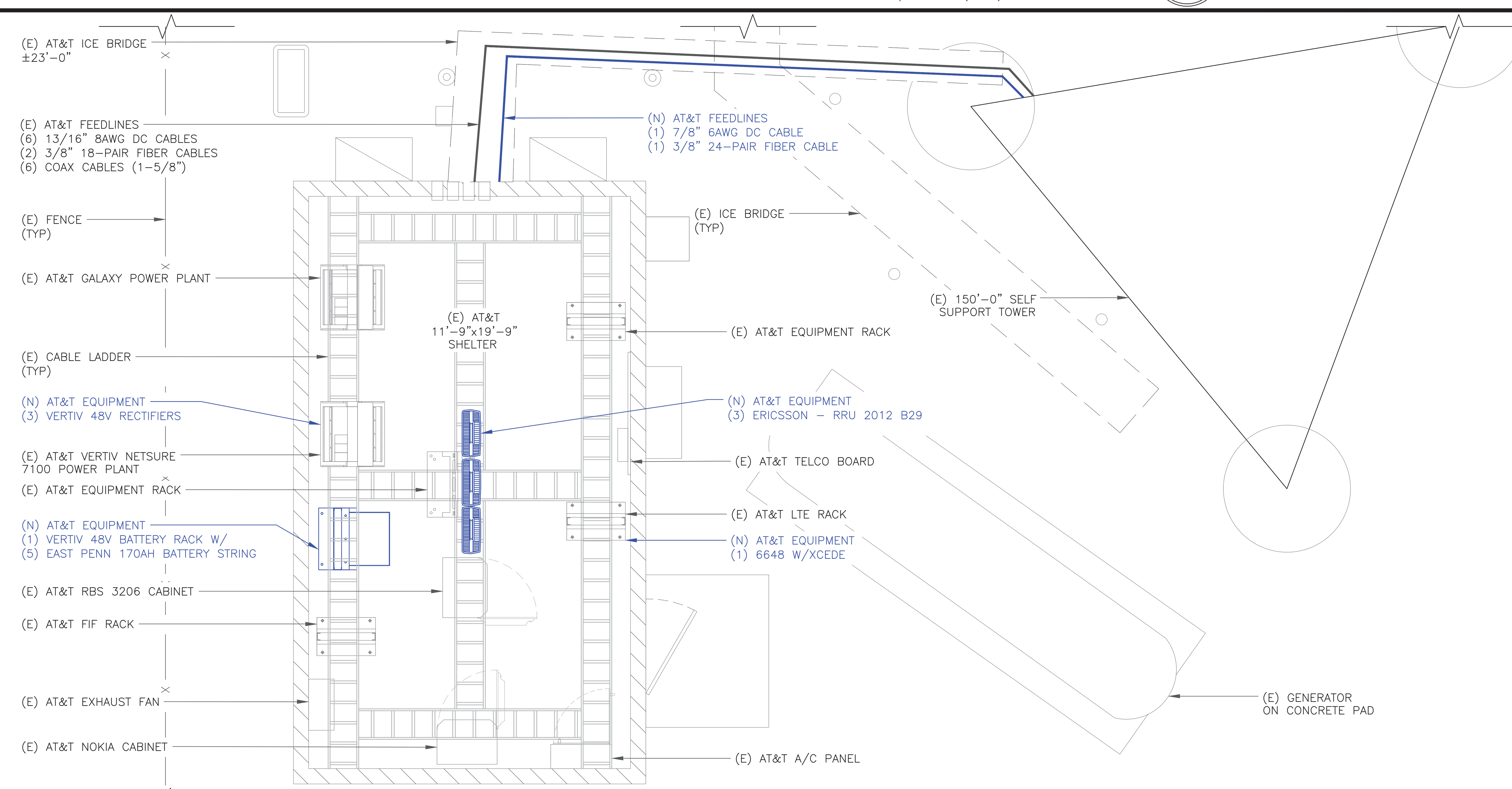
SHEET NUMBER: C-1.1

REVISION: 0



1 EXISTING EQUIPMENT PLAN

SCALE: 3/8"=1'-0" (FULL SIZE) 3/16"=1'-0" (11x17)



2 FINAL EQUIPMENT PLAN

SCALE: 3/8"=1'-0" (FULL SIZE) 3/16"=1'-0" (11x17)

GROUND SCOPE OF WORK:

- REMOVE (3) EAST PENN 170AH BATTERY STRINGS
- REMOVE (1) 5216
- REMOVE (12) POWERWAVE - 78210250 DIPLEXERS
- INSTALL (3) ERICSSON - RRU 2012 B29
- INSTALL (3) VERTIV 48V RECTIFIERS
- INSTALL (1) VERTIV 48V BATTERY RACK
- INSTALL (5) EAST PENN 170AH BATTERY STRINGS
- INSTALL (1) 6648 W/ XCEDE CABLE

NOTE:

THE POWER DESIGN FOR ANY AC ELECTRICAL POWER CHANGES IS TO BE PERFORMED BY OTHERS AND IS SHOWN HERE FOR REFERENCE PURPOSES ONLY. AT&T IS SOLELY RESPONSIBLE FOR THE ELECTRICAL POWER DESIGN.

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EXISTING
150'-0" SELF SUPPORT TOWER

ISSUED FOR:

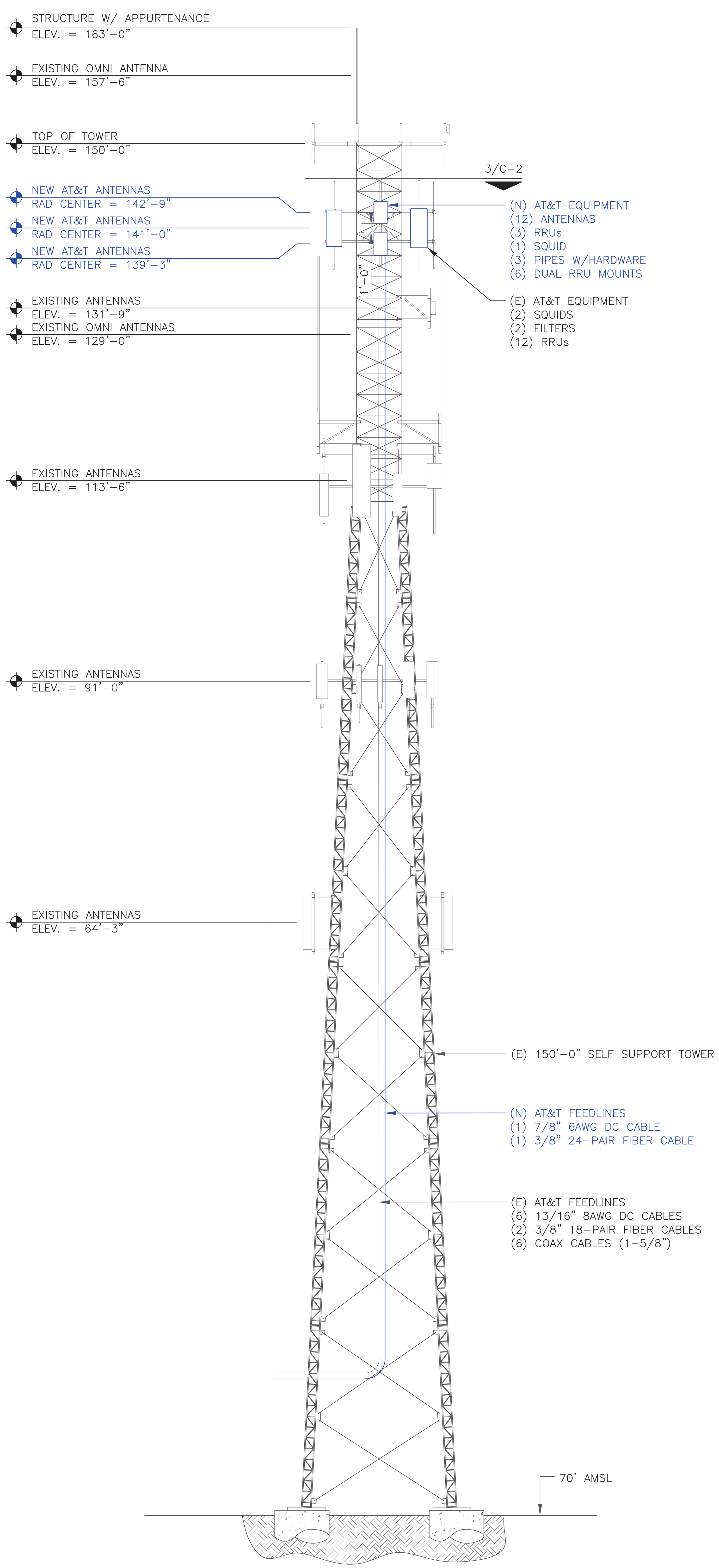
REV	DATE	DRWN	DESCRIPTION	DES./QA
A	5/16/22	JHW	PRELIMINARY REVIEW	LR
0	6/10/22	TDG	CONSTRUCTION	LR

STATE OF CONNECTICUT LICENSED PROFESSIONAL ENGINEER No. 23924 6/10/22

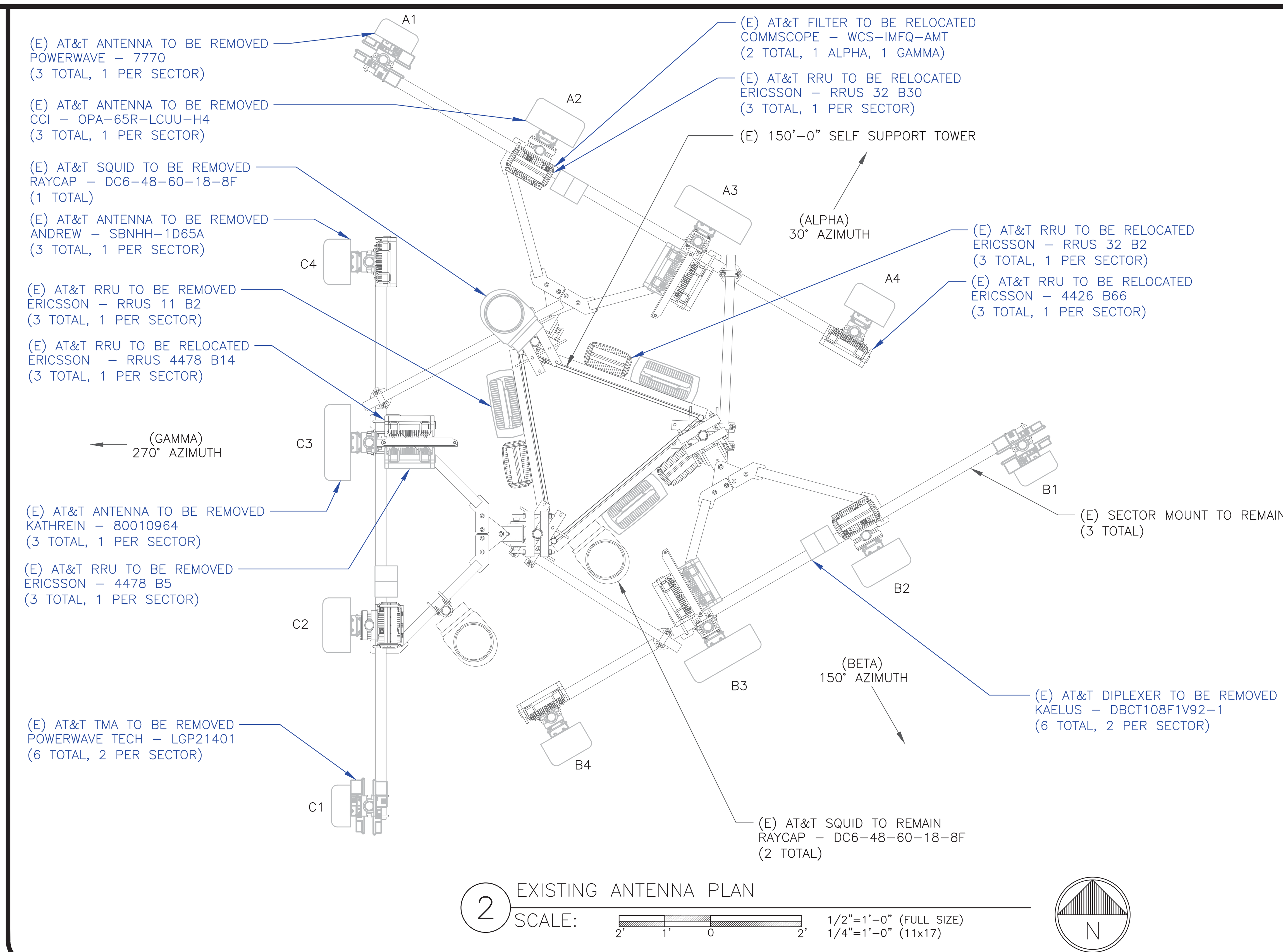
MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/23

SHEET NUMBER: C-1.2

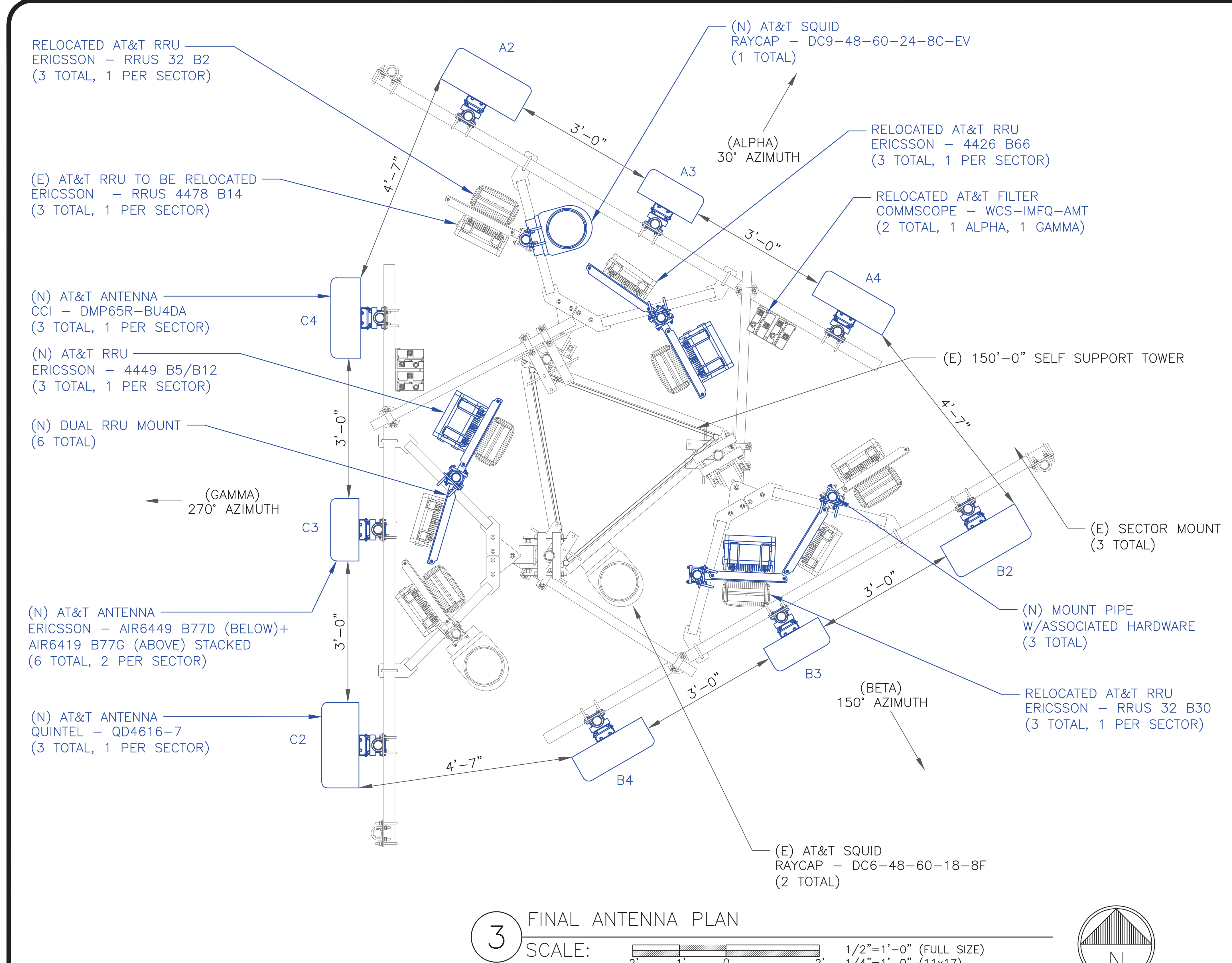
REVISION: 0



1 FINAL ELEVATION
SCALE: NOT TO SCALE



2 EXISTING ANTENNA PLAN
SCALE: 1/2"=1'-0" (FULL SIZE)
1/4"=1'-0" (11x17)



3 FINAL ANTENNA PLAN
SCALE: 1/2"=1'-0" (FULL SIZE)
1/4"=1'-0" (11x17)

"LOOK UP" – CROWN CASTLE USA INC.
SAFETY CLIMB REQUIREMENT:

THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR CROWN CASTLE USA INC. POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.

INSTALLER NOTES:

1. REFERENCE C-3 FOR FINAL EQUIPMENT SCHEDULE.
2. REFERENCE C-4 FOR NEW EQUIPMENT SPECIFICATIONS.
3. CONTRACTOR TO VERIFY ALL ANTENNA TIP HEIGHTS DO NOT EXCEED BEACON BASE HEIGHT.
4. 3'-0" MINIMUM DISTANCE REQUIRED BETWEEN LTE ANTENNAS ON SAME SECTOR.
5. 6'-0" MINIMUM DISTANCE REQUIRED BETWEEN 700BC & 700DE ANTENNAS ON SAME SECTOR.
6. 4'-0" MINIMUM DISTANCE REQUIRED BETWEEN LTE 700 ANTENNAS ON OPPOSING SECTORS.
7. ALL ANTENNA MEASUREMENT DISTANCES MUST BE EDGE TO EDGE (RELOCATE ANTENNAS AS NEEDED).
8. 8" MINIMUM DISTANCE REQUIRED BETWEEN ANTENNA & RADIO. SEE GENERIC EXAMPLE DETAIL ON SHEET C-4.

AT&T
575 MOROSGO DRIVE
ATLANTA, GA 30324-3300

CROWN CASTLE
3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

B+T GRP
MTS TELECOM, L.L.C.
1717 S. BOULDER,
SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
btwo@btgrp.com

AT&T SITE NUMBER: **CTL05099**

BU #: **842870**
MILFORD

434 BOSTON POST ROAD
MILFORD, CT 06460

EXISTING
150'-0" SELF SUPPORT TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	5/16/22	JHW	PRELIMINARY REVIEW	LR
0	6/10/22	TDG	CONSTRUCTION	LR

STATE OF CONNECTICUT No. 23924 LICENSED PROFESSIONAL ENGINEER
6/10/22

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

SHEET NUMBER: C-2
REVISION: 0

FINAL EQUIPMENT SCHEDULE
(VERIFY WITH CURRENT RFDS)

POSITION	ANTENNA				RADIO			DIPLEXER			FILTER			SURGE PROTECTION		CABLES			
	TECH.	STATUS/MANUFACTURER MODEL	AZIMUTH	RAD CENTER	QTY.	STATUS/MODEL	LOCATION	QTY.	STATUS	LOCATION	QTY.	STATUS/MANUFACTURER MODEL	QTY.	STATUS/MODEL	QTY.	STATUS/TYPE	SIZE	LENGTH
ALPHA																			
A1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
A2	LTE/5G	(N) QUINTEL – QD4616-7	30°	141'-0"	1	(E) ERICSSON – RRUS 4478 B14	TOWER	–	–	–	–	–	–	–	2	(E) COAX	1-5/8"	191'-0"
					1	(E) ERICSSON – RRUS 32 B2	TOWER											
					1	(E) ERICSSON – 4426 B66	TOWER											
					1	(N) ERICSSON – 2012 B29	GROUND											
A3	5G DoD 5G CBAND	(N) ERICSSON – AIR6419 B77G (N) ERICSSON – AIR6449 B77D STACKED	30°	142'-9" 139'-3"	–	–	–	–	–	–	–	–	–	–	–	–	–	–
					–	–	–								–	–	–	–
A4	LTE/5G	(N) CCI – DMP65R-BU4DA	30°	141'-0"	**1**	**(N) ERICSSON – 4449 B5/B12**	**TOWER**	–	–	–	1	(E) COMMSCOPE – WCS-IMFQ-AMT	1	(E) DC6-48-60-18-8F	2	(E) 8AWG DC	13/16"	191'-0"
					1	**(N) Y-CABLE**												
					1	(E) ERICSSON – RRUS 32 B30	TOWER								1	(E) 18-PAIR FIBER	3/8"	191'-0"
BETA																			
B1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
															–	–	–	–
B2	LTE/5G	(N) QUINTEL – QD4616-7	150°	141'-0"	1	(E) ERICSSON – RRUS 4478 B14	TOWER	–	–	–	–	–	–	–	2	(E) COAX	1-5/8"	191'-0"
					1	(E) ERICSSON – RRUS 32 B2	TOWER											
					1	(E) ERICSSON – 4426 B66	TOWER											
					1	(N) ERICSSON – 2012 B29	GROUND											
B3	5G DoD 5G CBAND	(N) ERICSSON – AIR6419 B77G (N) ERICSSON – AIR6449 B77D STACKED	150°	142'-9" 139'-3"	–	–	–	–	–	–	–	–	–	–	–	–	–	–
					–	–	–								–	–	–	–
B4	LTE/5G	(N) CCI – DMP65R-BU4DA	150°	141'-0"	**1**	**(N) ERICSSON – 4449 B5/B12**	**TOWER**	–	–	–	–	–	+	(E) DC6-48-60-18-8F	2	(E) 8AWG DC	13/16"	191'-0"
					1	**(N) Y-CABLE**												
					1	(E) ERICSSON – RRUS 32 B30	TOWER								1	(E) 18-PAIR FIBER	3/8"	191'-0"
GAMMA																			
C1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
															–	–	–	–
C2	LTE/5G	(N) QUINTEL – QD4616-7	270°	141'-0"	1	(E) ERICSSON – RRUS 4478 B14	TOWER	–	–	–	–	–	**1**	–	2	(E) COAX	1-5/8"	191'-0"
					1	(E) ERICSSON – RRUS 32 B2	TOWER											
					1	(E) ERICSSON – 4426 B66	TOWER											
					1	(N) ERICSSON – 2012 B29	GROUND											
C3	5G DoD 5G CBAND	(N) ERICSSON – AIR6419 B77G (N) ERICSSON – AIR6449 B77D STACKED	270°	142'-9" 139'-3"	–	–	–	–	–	–	–	–	–	–	–	–	–	–
					–	–	–								–	–	–	–
C4	LTE/5G	(N) CCI – DMP65R-BU4DA	270°	141'-0"	**1**	**(N) ERICSSON – 4449 B5/B12**	**TOWER**	–	–	–	1	(E) COMMSCOPE – WCS-IMFQ-AMT	–	**(N) DC9-48-60-24-8C-EV**	2	(E) 8AWG DC	13/16"	191'-0"
					1	**(N) Y-CABLE**									**1**	**(N) 6AWG DC**	**7/8"**	**191'-0"**
					1	(E) ERICSSON – RRUS 32 B30	TOWER								1	(N) 24-PAIR FIBER	3/8"	**191'-0"**
														UNUSED FEEDLINES:	–	–	–	–
															–	–	–	–

NOTE:
(E) – EXISTING
(N) – NEW

1 FINAL ANTENNA AND FEEDLINE SCHEDULE
SCALE: NOT TO SCALE

AT&T
575 MOROSGO DRIVE
ATLANTA, GA 30324-3300

CROWN CASTLE
3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

B+T GRP
MTS TELECOM, L.L.C.
1717 S. BOULDER,
SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
btwo@btgrp.com

AT&T SITE NUMBER: **CTL05099**

BU #: **842870**
MILFORD

434 BOSTON POST ROAD
MILFORD, CT 06460

EXISTING
150'-0" SELF SUPPORT TOWER

ISSUED FOR:

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0	6/10/22	TDG	CONSTRUCTION	LR

STATE OF CONNECTICUT
LICENSED PROFESSIONAL ENGINEER
No. 23824
8/10/22

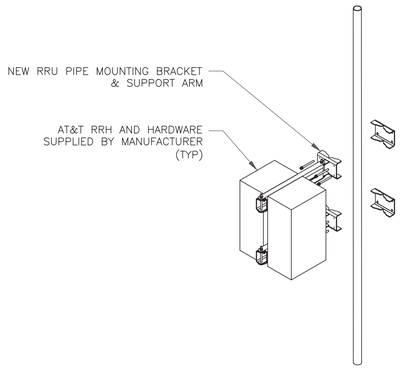
MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/23

SHEET NUMBER: C-3

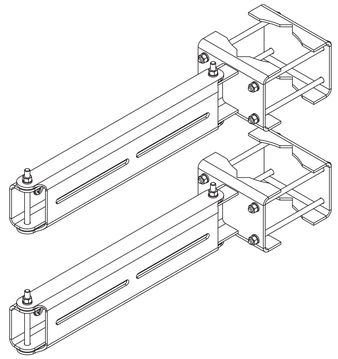
REVISION: 0

INSTALLER NOTES:

1. COMPLY WITH MANUFACTURERS INSTRUCTIONS TO ENSURE THAT ALL RRHs RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING.
2. DO NOT OPEN RRH PACKAGES IN THE RAIN.
3. ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.
4. RRHs SHALL NOT BE INSTALLED CLOSER THAN 8" TO ANTENNAS.



1 DUAL RRH MOUNTING DETAIL
SCALE: NOT TO SCALE

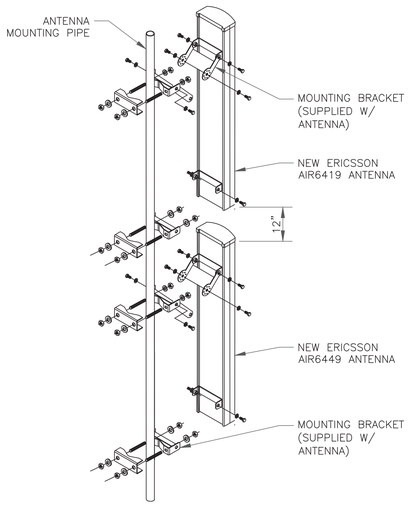


2 DUAL RADIO MOUNT
SCALE: NOT TO SCALE

3 NOT USED
SCALE: NOT TO SCALE

INSTALLER NOTES:

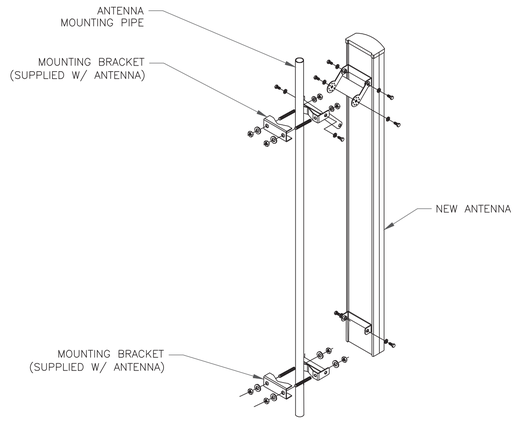
1. ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.
2. EQUIPMENT SHALL NOT BE INSTALLED CLOSER THAN 8" TO ANTENNAS.



4 STACKED ANTENNA MOUNTING DETAIL
SCALE: NOT TO SCALE

INSTALLER NOTES:

1. ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.
2. EQUIPMENT SHALL NOT BE INSTALLED CLOSER THAN 8" TO ANTENNAS.

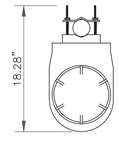


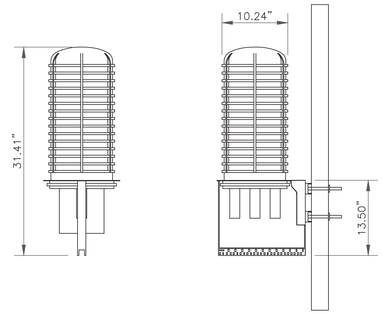
5 ANTENNA MOUNTING DETAIL
SCALE: NOT TO SCALE

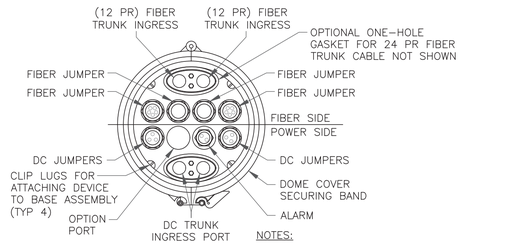
RAYCAP
DC9-48-60-24-8C-EV

RAYCAP – DC9-48-60-24-8C-EV
SIZE: 10.24x31.40 IN.
WEIGHT: 26.2 LBS
NOMINAL OPERATING VOLTAGE: 48 VDC
VOLTAGE PROTECTION RATING: 330 V
WIND LOADING: 150 MPH SUSTAINED (105.7 LBS)
WIND LOADING: 195 MPH GUST (213.6 LBS)

CONTRACTOR TO USE "THREAD LUBRICANT" ON MOUNTING BOLTS DURING INSTALLATION







NOTES:

1. REMOVE CABLE SEALING GLAND AND INSTALL M32x1.5 METRIC-TO-1" NPT ADAPTER (COOPER CROUSE-HINES P/N CAP 740 994 OR EQUIVALENT MFR) WHEN CONNECTING CONDUIT TO OVP.

6 SQUID MOUNTING DETAIL
SCALE: NOT TO SCALE

AT&T
575 MOROSGO DRIVE
ATLANTA, GA 30324-3300

CROWN CASTLE
3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

B+T GRP
MTS TELECOM, L.L.C.
1717 S. BOULDER,
SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
btwo@btgrp.com

AT&T SITE NUMBER: **CTL05099**

BU #: **842870**
MILFORD

434 BOSTON POST ROAD
MILFORD, CT 06460

EXISTING
150'-0" SELF SUPPORT TOWER

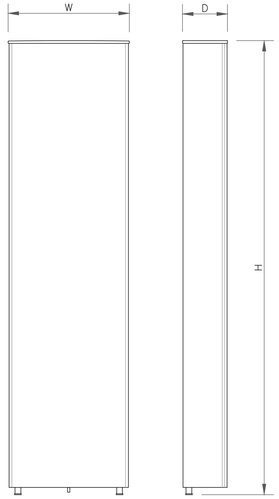
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	5/16/22	JHW	PRELIMINARY REVIEW	LR
0	6/10/22	TDG	CONSTRUCTION	LR

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

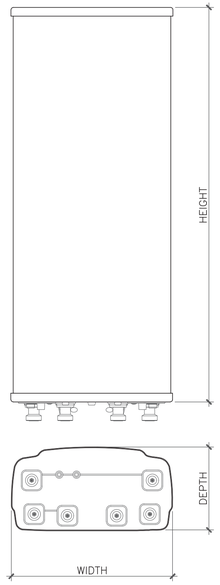
SHEET NUMBER: C-4

REVISION: 0



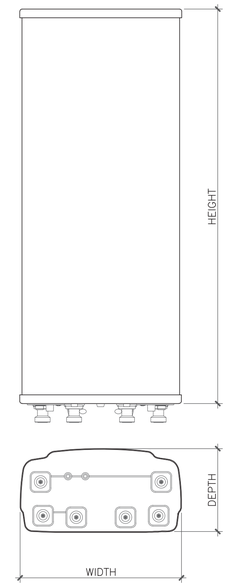
ANTENNA SPECS	
MANUFACTURER	QUINTEL TECHNOLOGY
MODEL #	QD4616-7
WIDTH	22.00"
DEPTH	9.60"
HEIGHT	51.50"
WEIGHT	109.00 LBS

1 ANTENNA SPECS
SCALE: NOT TO SCALE



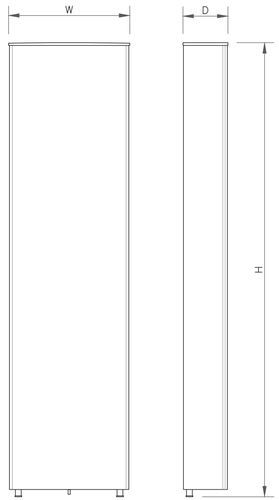
ANTENNA DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
AIR 6419 B77G	31.10"	16.10"	7.30"	44.00 lbs

2 ANTENNA DETAIL
SCALE: NOT TO SCALE



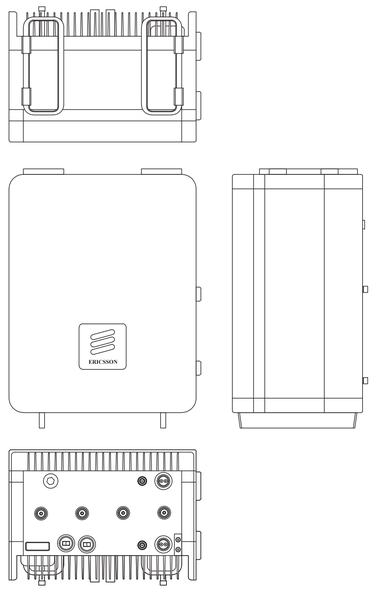
ANTENNA DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
AIR 6449 B77D	30.39"	15.87"	8.07"	81.60 lbs

3 ANTENNA DETAIL
SCALE: NOT TO SCALE



ANTENNA SPECS	
MANUFACTURER	CCI ANTENNAS
MODEL #	DMP65R-BU4DA
WIDTH	20.70"
DEPTH	7.70"
HEIGHT	48.00"
WEIGHT	76.50 LBS

4 ANTENNA SPECS
SCALE: NOT TO SCALE



ERICSSON - 4449 B5/B12
WEIGHT: 70.0 LBS
SIZE (HxWxD): 18.0x13.2x9.4 IN.

RADIO SPECS
SCALE: NOT TO SCALE

6 NOT USED
SCALE: NOT TO SCALE

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AT&T SITE NUMBER: **CTL05099**

BU #: **842870**
MILFORD

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EXISTING
150'-0" SELF SUPPORT TOWER

ISSUED FOR:

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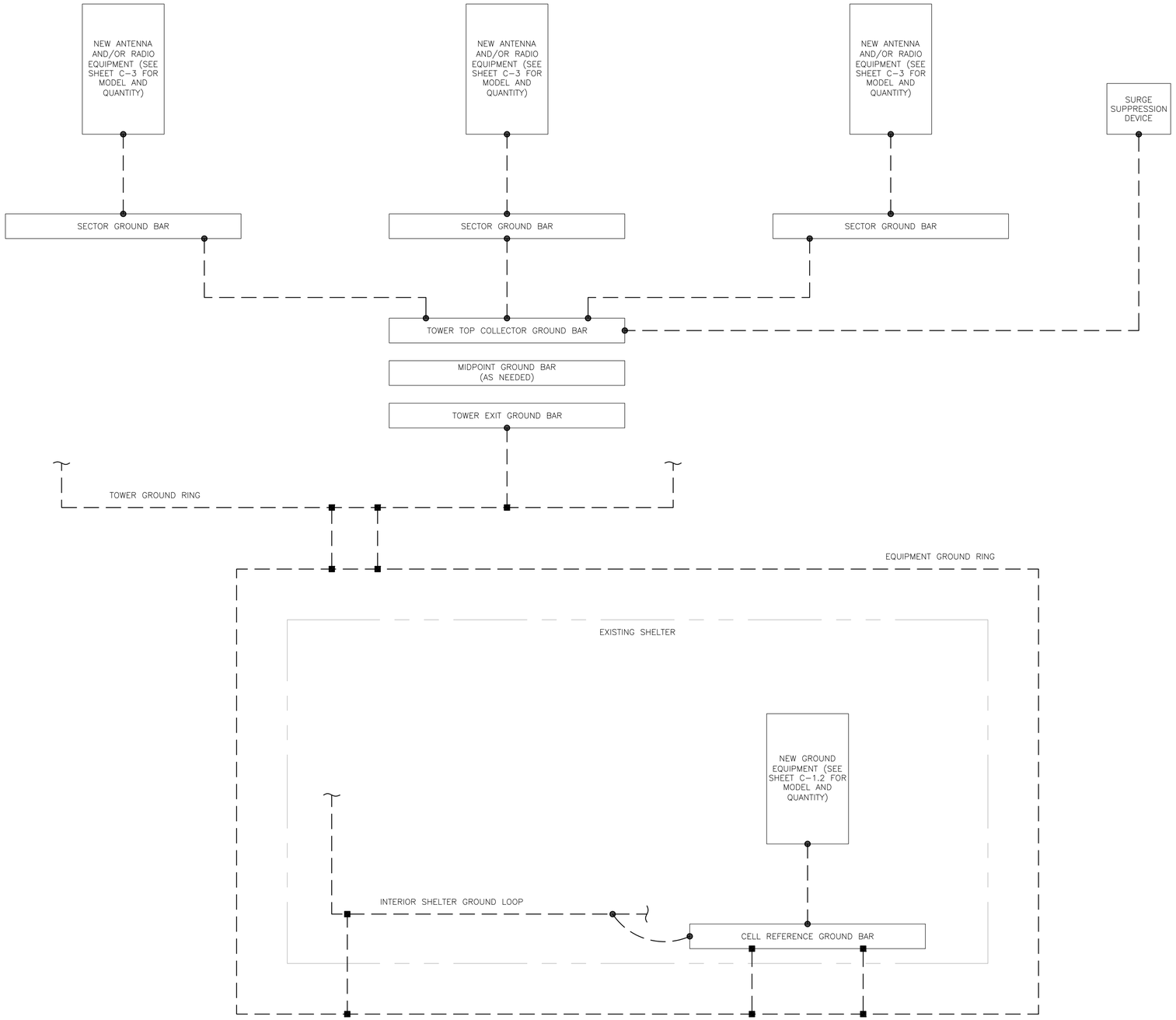
MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/23

SHEET NUMBER: C-5

REVISION: 0



1 GROUNDING SCHEMATIC
SCALE: NOT TO SCALE

GROUNDING PLAN LEGEND:

- GROUND WIRE
- EXOTHERMIC WELD
- MECHANICAL CONNECTION
- COPPER GROUND ROD
- GROUND ROD W/ TEST WELL

CELL REFERENCE GROUND BAR: POINT OF GROUND REFERENCE FOR ALL COMMUNICATIONS EQUIPMENT FRAMES. ALL BONDS ARE MADE WITH #2 STRANDED GREEN INSULATED COPPER CONDUCTORS. BOND TO GROUND RING WITH (2) #2 SOLID TINNED COPPER CONDUITS (ATT-TP-76416 7.6.7).

HATCH PLATE GROUND BAR: BOND TO THE INTERIOR GROUND RING WITH (2) #2 STRANDED GREEN INSULATED COPPER CONDUCTORS. WHEN A HATCH-PLATE AND A CELL REFERENCE GROUND BAR ARE BOTH PRESENT, THE CELL SITE REFERENCE GROUND BAR MUST BE CONNECTED TO THE HATCH-PLATE AND TO THE INTERIOR GROUND RING USING (2) #2 STRANDED GREEN INSULATED COPPER CONDUCTORS.

EXTERIOR CABLE ENTRY PORT GROUND BARS: LOCATED AT THE ENTRANCE TO THE CELL SITE BUILDING. BOND TO GROUND RING WITH A #2 SOLID TINNED COPPER CONDUCTORS WITH AN EXOTHERMIC WELD AND INSPECTION SLEEVE (ATT-TP-76416 7.6.7.2).

DURING ALL DC POWER SYSTEM CHANGES INCLUDING DC SYSTEM CHANGE OUTS, RECTIFIER REPLACEMENTS OR ADDITIONS, BREAKER DISTRIBUTION CHANGES, BATTERY ADDITIONS, BATTERY REPLACEMENTS AND INSTALLATIONS OR CHANGES TO DC CONVERTER SYSTEMS IT SHALL BE REQUIRED THAT SERVICES CONTRACTORS VERIFY ALL DC POWER SYSTEMS ARE EQUIPPED WITH MASTER DC SYSTEM RETURN GROUND CONDUCTOR FROM THE DC POWER SYSTEM COMMON RETURN BUS DIRECTLY CONNECTED TO THE CELL SITE REFERENCE GROUND BAR PER TP76300 SECTION H 6 AND TP76416 FIGURE 7-11 REQUIREMENTS.

AT&T
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150'-0" SELF SUPPORT TOWER

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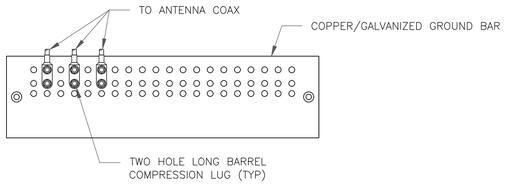
0	6/10/22	TDG	CONSTRUCTION	LR

STATE OF CONNECTICUT
LISA A. RIDER
No. 23024
LICENSED
PROFESSIONAL ENGINEER
6/10/22

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

SHEET NUMBER: G-1

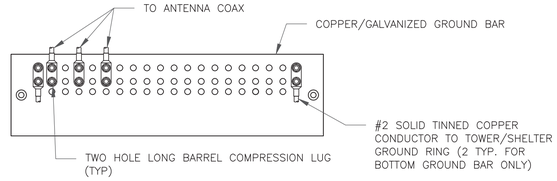
REVISION: 0



NOTES:

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

1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE

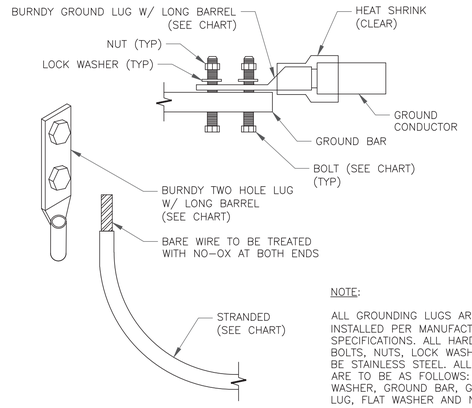


NOTES:

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

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

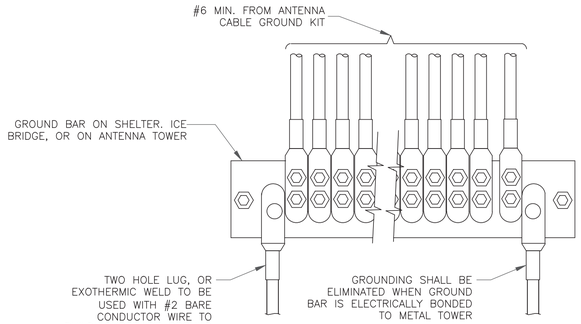
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 SOLID TINNED	YA3C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 STRANDED	YA2C-2TC38	3/8" - 16 NC SS 2 BOLT
#2/0 STRANDED	YA26-2TC38	3/8" - 16 NC SS 2 BOLT
#4/0 STRANDED	YA28-2N	1/2" - 16 NC SS 2 BOLT



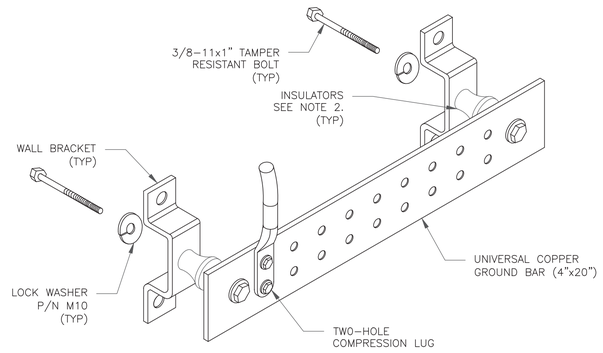
NOTE:

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

3 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



4 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE

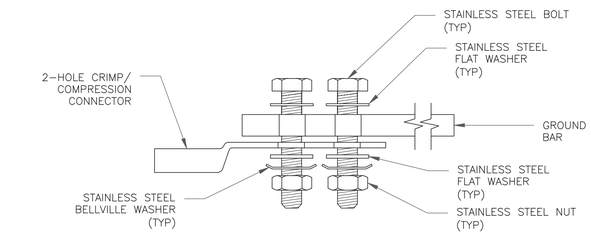


NOTES:

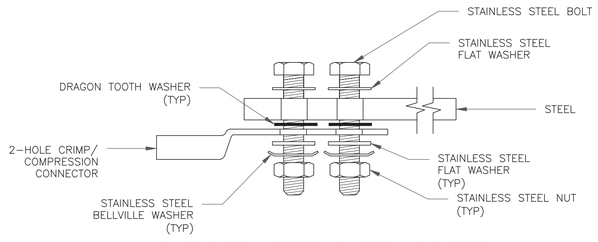
1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.

2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

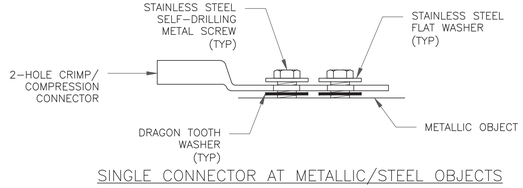
5 GROUND BAR DETAIL
SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS

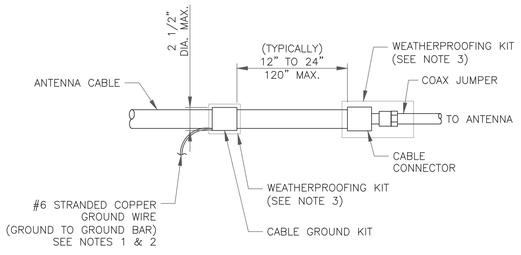


SINGLE CONNECTOR AT STEEL OBJECTS



SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

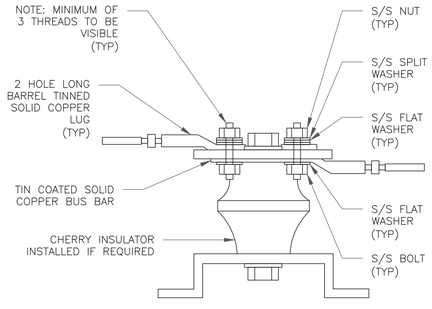
8 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



NOTES:

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

6 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE

AT&T
575 MOROSGO DRIVE
ATLANTA, GA 30324-3300

CROWN CASTLE
3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

B+T GRP
MTS TELECOM, L.L.C.
1717 S. BOULDER,
SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
btwo@btgrp.com

AT&T SITE NUMBER: **CTL05099**

BU #: **842870**
MILFORD

434 BOSTON POST ROAD
MILFORD, CT 06460

EXISTING
150'-0" SELF SUPPORT TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	5/16/22	JHW	PRELIMINARY REVIEW	LR
0	6/10/22	TDG	CONSTRUCTION	LR

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

SHEET NUMBER: G-2

REVISION: 0

Diagram - Sector	A	Diagram File Name - Monopole_C_Band_DoD_700DE_Bottom_44xx_2xDCFiber_1xDC-9_5216+2xXMU+6648_Filter_Rev.2.vsd					
Atoll Site Name -	CTL05099	Location Name -	MILFORD	Market -	CONNECTICUT	Market Cluster -	NEW ENGLAND

Comments: *Important Note: For detailed radio to antenna wiring refer to the latest field notice - Antenna_Radio Connection Drawings Playbook v6.0_Ericsson*

Antenna 1
Empty

Antenna 2
LTE 700(DE) / 700(B14) / PCS /AWS

16 Port Antenna

Broadband Low 700 DE +45/-45 | Broadband Low 700 B14 +45/-45 | Broadband Low 700 B14 +45/-45 | Broadband Low 850 +45/-45 | Broadband Hi 4Tx/4Rx +45/-45 | Broadband Hi 4Tx/4Rx +45/-45 | Broadband Hi 4Tx/4Rx +45/-45 | Broadband Hi Tx/4Rx +45/-45

RET | RET | RET | RET | RET | RET | RET | RET

Antenna 3
DoD + C band

AIR
DoD
+45/-45

AIR
C-BAND
+45/-45

Antenna 4
LTE 700(BC) / WCS/ 5G 850

Broadband Octo Low 700/850 +45/-45 | Broadband Octo Low 700/850 +45/-45 | Broadband Octo High 4Tx/4Rx +45/-45 | Broadband Octo High 4Tx/4Rx +45/-45

RET | RET | RET | RET

(Y- Cable)

Fiber/DC-9
Demarcation Box (Squid)

FiberDC
Demarcation Box (Squid)

FiberDC
Demarcation Box (Squid)

DC Plant

- 3 Feet Minimum Separation between ALL Antennas
- 6 Feet Minimum Separation between 700DE & 700 DE
- 12" Vertical Separation between DoD and C Band Antenna.
- Use "Y Cable" for Dual band RRHs

UMTS 1st NodeB

6648

5216 | XMU | XMU

6630

IDLe

Xcede

Diagram – Sector	B	Diagram File Name – Monopole_C_Band_DoD_700DE_Bottom_44xx_2xDCFiber_1xDC-9_5216+2xXMU+6648_Rev.2.vsd					
Atoll Site Name –	CTL05099	Location Name –	MILFORD	Market –	CONNECTICUT	Market Cluster –	NEW ENGLAND
Comments: "Important Note: For detailed radio to antenna wiring refer to the latest field notice – Antenna_Radio Connection Drawings Playbook v6.0_Ericsson"							

Antenna 1
Empty

Antenna 2
LTE 700(DE) / 700(B14) / PCS /AWS

16 Port Antenna

Broadband Low 700 DE +45/-45 - +
Broadband Low 700 B14 +45/-45 - +
Broadband Low 700 B14 +45/-45 - +
Broadband Low 850 +45/-45 - +
Broadband Hi 4Tx/4Rx +45/-45 - +
Broadband Hi 4Tx/4Rx +45/-45 - +
Broadband Hi 4Tx/4Rx +45/-45 - +
Broadband Hi 4Tx/4Rx +45/-45 - +
RET RET RET RET RET RET RET RET

Antenna 3
DoD + C band

AIR
DoD
+45/-45
- +

AIR
C-BAND
+45/-45
- +

Antenna 4
LTE 700(BC) / WCS/ 5G 850

Broadband Octo Low 700/850 +45/-45 - +
Broadband Octo Low 700/850 +45/-45 - +
Broadband Octo High 4Tx/4Rx +45/-45 - +
Broadband Octo High 4Tx/4Rx +45/-45 - +
RET RET RET RET

LTE RRUS-4449 B5/B7/B12
LTE RRUS-32 WCS

(Y- Cable)

LTE 700(DE) RRH
LTE PCS RRH
LTE AWS RRH

FiberDC Demarcation Box (Squid)
FiberDC Demarcation Box (Squid)
Fiber/DC-9 Demarcation Box (Squid)

DC Plant

- 3 Feet Minimum Separation between ALL Antennas
- 6 Feet Minimum Separation between 700DC & 700 DE
- 12" Vertical Separation between DoD and C Band Antenna.
- Use "Y Cable" for Dual band RRHs

UMTS 1st NodeB

6648
5216
XMU
XMU
6630

IDLe
Xcede

Diagram - Sector	C	Diagram File Name - Monopole_C_Band_DoD_700DE_Bottom_44xx_2xDCFiber_1xDC-9_5216+2xXMU+6648_Rev.2.vsd					
Atoll Site Name -	CTL05099	Location Name -	MILFORD	Market -	CONNECTICUT	Market Cluster -	NEW ENGLAND
Comments: "Important Note: For detailed radio to antenna wiring refer to the latest field notice - Antenna_Radio Connection Drawings Playbook v6.0_Ericsson"							

Antenna 1
Empty

Antenna 2
LTE 700(DE) / 700(B14) / PCS /AWS

16 Port Antenna

Broadband	Broadband	Broadband	Broadband	Broadband	Broadband	Broadband	Broadband
Low 700 DE +45/-45	Low 700 B14 +45/-45	Low 700 B14 +45/-45	Low 850 +45/-45	Hi 4Tx/4Rx +45/-45	Hi 4Tx/4Rx +45/-45	Hi 4Tx/4Rx +45/-45	Hi Tx/4Rx +45/-45
- +	- +	- +	- +	- +	- +	- +	- +
RET	RET	RET	RET	RET	RET	RET	RET

Antenna 3
DoD + C band

AIR
DoD
+45/-45
- +

AIR
C-BAND
+45/-45
- +

Antenna 4
LTE 700(BC) / WCS/ 5G 850

Broadband Octo Low 700/850 +45/-45	Broadband Octo Low 700/850 +45/-45	Broadband Octo High 4Tx/4Rx +45/-45	Broadband Octo High 4Tx/4Rx +45/-45
- +	- +	- +	- +
RET	RET	RET	RET

(Y- Cable)

Fiber/DC
Demarcation Box (Squid)

Fiber/DC
Demarcation Box (Squid)

Fiber/DC-9
Demarcation Box (Squid)

DC Plant

- 3 Feet Minimum Separation between ALL Antennas
- 6 Feet Minimum Separation between 700BC & 700 DE
- 12" Vertical Separation between DoD and C Band Antenna.
- Use "Y Cable" for Dual band RRHs

UMTS 1st NodeB

6648

5216 XMU XMU

6630

IDLe

Xcede