



1 Cityplace Dr, Suite 490  
Creve Coeur, MO 63141

Phone: (314) 513-0147  
www.crowncastle.com

February 9, 2022

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

RE: **Notice of Exempt Modification for AT&T  
Crown Site ID#803175; AT&T Site ID#CTL05379  
167 Cocomo, NEW BRITAIN, CT 06051  
Latitude: 41° 41' 11.80"/ Longitude: -72° 45' 27.80"**

Dear Ms. Bachman:

AT&T currently maintains (12) antennas at the 190-foot mounts on the existing 188-foot Monopole Tower located at **167 Cocomo, NEW BRITAIN**. The property and Tower are owned by Crown Castle. AT&T now intends to replace six (9) antennas. This modification/proposal includes hardware that is both 4G(LTE) and 5G capable through remote software configuration and either or both services may be turned on or off at various times.

**Planned Modifications:**

**Tower:**

**REMOVE AND REPLACE**

- (1) CCI – OPA-65R-LCUU-H4 antenna (alpha sector) (**REMOVE**), (2) CCI-OPA-65R-LCUU H6 (beta and gamma sector) (**REMOVE**)
- (1) CCI-OPA65R-BU4DA antenna (alpha sector) (**REMOVE**), (2) CCI-OPA65R-BU6DA antennas (beta and gamma sector) (**REMOVE**), (1) Quintel – QD4616-7 antenna (alpha sector) (**REPLACE**), (2) Quintel – QD6616-7 antennas (beta and gamma sectors) (**REPLACE**)
- (1) Quintel – QS46512-2 antenna (alpha sector) (**REMOVE**), (2) Quintel – QS66512-2 antennas (beta and gamma sector) (**REMOVE**), (3) Ericsson – AIR6449 N77D antennas stacked (**REPLACE**), (3) Ericsson AIR6419 N77G antennas stacked (**REPLACE**)
- (4) AT&T pendant removed (**REMOVE**), (3) Raycap – DC9-48-60-24-8CEV
- (3) Ericsson – RRUS-E2 B29 Remote Radio Heads (**REMOVE**), (3) Ericsson – 4415 B25 Remote Radio Heads
- (6) Ericsson – RRUS-32 B2 Remote Radio Heads (**REMOVE**)
- (6) Coax cable (**REMOVE**)
- (2) Fiber Cable (**REMOVE**), (3) Fiber Cable (**REPLACE**)
- (8) DC Cable (**REMOVE**), (9) DC Cable (**REPLACE**)



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Ground:

**INSTALL:**

- (1) 6673 FHG
- (1) Rectifier Shelf
- (6) Rectifiers
- (1) 19" Distribution Shelf
- (33) Vertiv Up-Converters

This facility was approved by the City of New Britain on May 30th, 2002. 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 Erin Stewart, City of New Britain Mayor, Jack Benjamin, City of New Britain Director of Planning and Development, and Crown Castle, the tower and property 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, AT&T 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).

Sincerely,

Ersilia Davis  
Crown Castle, Agent for AT&T  
[edavis@nbcllc.com](mailto:edavis@nbcllc.com)  
(551)804-0667



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[www.crowncastle.com](http://www.crowncastle.com)

cc:

Erin Stewart, Mayor  
27 West Main Street  
New Britain, CT 06051  
(860) 826-3300  
*(Via Fedex)*

Jack Benjamin, Director of Planning and Development  
27 West Main Street  
New Britain, CT 06051  
(860) 826-3430  
*(Via Fedex)*



FedEx Tracking



776000811816



[ADD NICKNAME](#)

**ON TIME**

**Delivered**  
Thursday, February 10, 2022 at 10:29 am



**DELIVERED**

Signed for by: C.LARK



[GET STATUS UPDATES](#)

[OBTAIN PROOF OF DELIVERY](#)

**FROM**

Ersilia Davis

1777 Sentry Parkway  
VEVA 17, Suite 210  
Blue Bell, PA US 19422  
551-804-0667

**TO**

Erin Stewart, Mayor  
City of New Britain

27 West Main St  
NEW BRITAIN, CT US 06051  
860-826-3300

[MANAGE DELIVERY](#)

Travel History

**TIME ZONE**

Local Scan Time



Thursday, February 10, 2022

10:29 AM	NEW BRITAIN, CT	Delivered
8:45 AM	WINDSOR LOCKS, CT	On FedEx vehicle for delivery
7:33 AM	WINDSOR LOCKS, CT	At local FedEx facility
5:27 AM	EAST GRANBY, CT	At destination sort facility



FedEx Tracking



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[ADD NICKNAME](#)

**ON TIME**

**Delivered**  
Thursday, February 10, 2022 at 10:29 am



**DELIVERED**

Signed for by: C.LARK



[GET STATUS UPDATES](#)

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**FROM**

Ersilia Davis

1777 Sentry Parkway  
VEVA 17, Suite 210  
Blue Bell, PA US 19422  
551-804-0667

**TO**

Jack Benjamin, Planning & Zoning  
City of New Britain

27 West Main St  
NEW BRITAIN, CT US 06051  
860-826-3430

[MANAGE DELIVERY](#)

Travel History

**TIME ZONE**

Local Scan Time



Thursday, February 10, 2022

10:29 AM	NEW BRITAIN, CT	Delivered
8:50 AM	WINDSOR LOCKS, CT	On FedEx vehicle for delivery
7:35 AM	WINDSOR LOCKS, CT	At local FedEx facility
5:27 AM	EAST GRANBY, CT	At destination sort facility

# Exhibit A

## **Original Facility Approval**



City of New Britain  
Building Department

Date Issued 5/30/02

# BUILDING PERMIT — CERTIFICATE OF OCCUPANCY

Date 1/9/01  
5/17/01

Permit No. B1779 & B2093

Applicant Crown Castle Atlantic, LLC Address 703 Hebron Ave, Glastonbury, CT

Permit To \_\_\_\_\_ (Type of Improvement) (\_\_\_\_\_) Story \_\_\_\_\_ (Proposed Use) No. of Dwelling Units \_\_\_\_\_

At (Location) 167 LESTER STREET (No.) (Street) Zoning District 12

Subdivision \_\_\_\_\_ Lot \_\_\_\_\_ Block \_\_\_\_\_ Lot Size \_\_\_\_\_

Building is to be \_\_\_\_\_ Ft. wide by \_\_\_\_\_ Ft. long by \_\_\_\_\_ Ft. in height and shall conform in construction

To Type \_\_\_\_\_ Use Group \_\_\_\_\_ Basement Walls or Foundation \_\_\_\_\_ (Type)

Remarks: 190' telecommunication tower per plan and 1999 State Building Code, B1779.

Area or Volume Install 12'x30' panelized land site steel frame shelter, 40 KW Diesel generator and 12 panel antennas approved by Siting Council 4/27/01, B2093  
(Cubic/Square Feet)

Owner John & Helen Balavender

Address 30 Biltmore St. NB, CT (Building Inspector)

To be posted on premises — See reverse side for conditions of certificate.

# Exhibit B

## Property Card



# 167 COCCOMO CIR

**Location** 167 COCCOMO CIR

**Mblu** A5D/ 22/ / /

**Acct#** 15950167

**Owner** CROWN ATLANTIC COMPANY  
LLC

**Assessment** \$58,380

**Appraisal** \$83,400

**PID** 10590

**Building Count** 1

## Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2017	\$47,400	\$36,000	\$83,400

Assessment			
Valuation Year	Improvements	Land	Total
2017	\$33,180	\$25,200	\$58,380

## Owner of Record

**Owner** CROWN ATLANTIC COMPANY LLC  
**Co-Owner**  
**Address** 4017 WASHINGTON RD PMB 353  
MCMURRAY, PA 15317

**Sale Price** \$90,000  
**Certificate**  
**Book & Page** 1359/0428  
**Sale Date** 02/13/2001

## Ownership History

Ownership History				
Owner	Sale Price	Certificate	Book & Page	Sale Date
CROWN ATLANTIC COMPANY LLC	\$90,000		1359/0428	02/13/2001
BALAVENDER JOHN S +	\$44,000		1284/0180	08/26/1998
	\$0		1281/0173	07/15/1998
	\$0		0770/0808	10/29/1981
CLARA MARY DOUCETTE	\$0		0725/0121	03/02/1977
FRANCISZKA BARANOWSKI + CLARA	\$0		0594/0393	01/20/1966
FRANCISZKA BARANOWSKI	\$0		0532/0263	03/14/1962
FRANCISZKA + EDWARD R	\$0		0365/0244	03/16/1953
LILLIAN S SCHROEDEL	\$0		0365/0243	03/16/1953
FRANCISZKA BARANOWSKI	\$0		0332/0426	08/26/1949

## Building Information

### Building 1 : Section 1

**Year Built:** 1918  
**Living Area:** 624  
**Replacement Cost:** \$105,398  
**Building Percent Good:** 45  
**Replacement Cost Less Depreciation:** \$47,400

#### Building Attributes

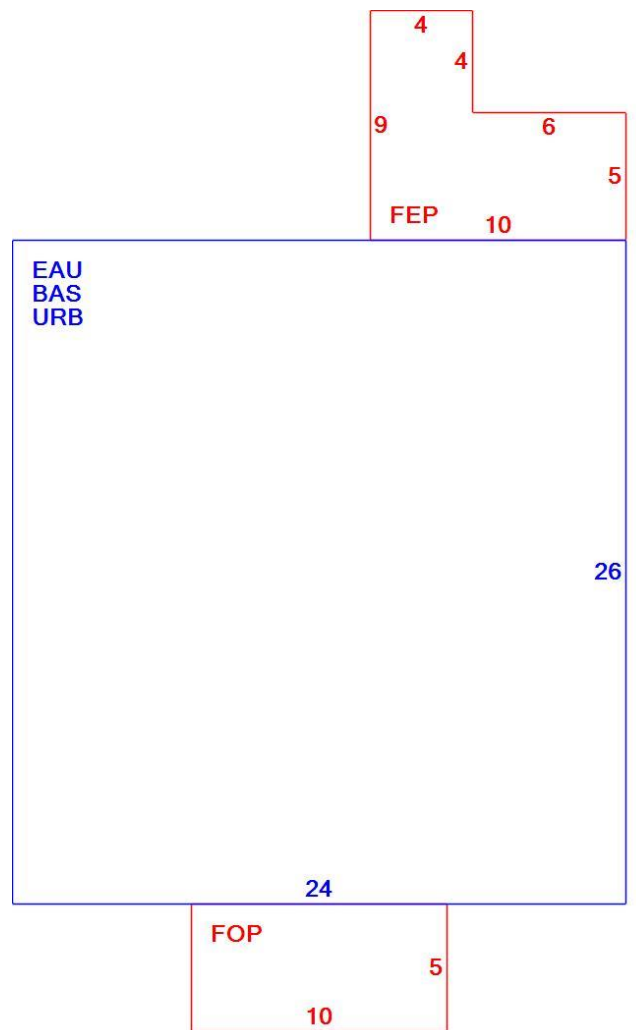
Field	Description
Style	Conventional
Model	Residential
Grade	C
Stories	1 1/4 Stories
Occupancy	1
Exterior Wall 1	Aluminum Siding
Exterior Wall 2	
Roof Structure	Gable
Roof Cover	Asphalt Shingl
Interior Wall 1	Plaster
Interior Wall 2	
Interior Flr 1	Carpet
Interior Flr 2	
Central Heat Sys	Yes
Heat Type	99
AC Type	None
Total Bedrooms	2 Bedrooms
Total Full Baths	1
Total Half Baths	0
Total Xtra Fixtrs	0
Total Rooms	4
Bath Style	Average
Kitchen Style	Average
Num Kitchens	
Whirlpool Tub	
Fireplaces_2	
Rec Room Finish	
Rec Room Qual	
Bsmt Garages	
Fireplaces	
Bldg Nbhd	104A

### Building Photo



(<http://images.vgsi.com/photos/NewBritainCTPhotos/\00\02\86\91.JPG>)

### Building Layout



(ParcelSketch.ashx?pid=10590&bid=11318)

Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area

Fndtn Cndtn	
Basement	

BAS	First Floor	624	624
EAU	Attic, Expansion, Unfinished	624	0
FEP	Enclosed Porch	66	0
FOP	Open Porch	50	0
URB	Unfin Raised Basement	624	0
		1,988	624

### Extra Features

Extra Features	<u>Legend</u>
No Data for Extra Features	

### Land

#### Land Use

<b>Use Code</b>	1010
<b>Description</b>	Single Family
<b>Zone</b>	I2
<b>Neighborhood</b>	104
<b>Alt Land Appr Category</b>	No

#### Land Line Valuation

<b>Size (Acres)</b>	0.32
<b>Depth</b>	
<b>Assessed Value</b>	\$25,200
<b>Appraised Value</b>	\$36,000

### Outbuildings

Outbuildings	<u>Legend</u>
No Data for Outbuildings	

### Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2020	\$47,400	\$36,000	\$83,400
2019	\$47,400	\$36,000	\$83,400
2018	\$47,400	\$36,000	\$83,400

Assessment			
Valuation Year	Improvements	Land	Total
2020	\$33,180	\$25,200	\$58,380
2019	\$33,180	\$25,200	\$58,380
2018	\$33,180	\$25,200	\$58,380



# Exhibit C

## **Construction Drawings**

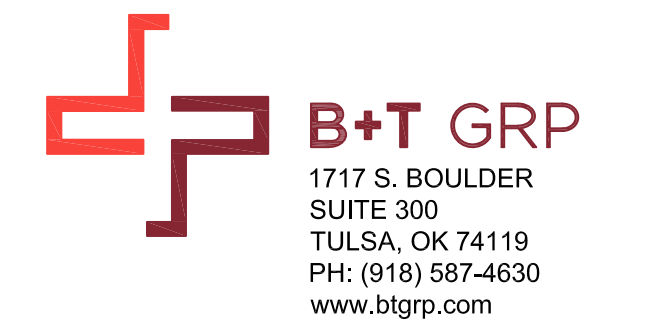


THIS SUBMISSION CONTAINS CONFIDENTIAL, PROPRIETARY OR TRADE SECRET INFORMATION THAT IS EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAWS. PLEASE MAKE SURE THESE PAGES ARE NOT DISCLOSED. IF ANY REQUEST IS MADE FOR THIS INFORMATION, PLEASE CONTACT THE SENDER IN ADDITION TO ANY LEGAL NOTICE REQUIREMENTS UNDER APPLICABLE LAW.  
DISCLAIMER PROVIDED BY AT&T. THIS STATEMENT DOES NOT CONSTITUTE ENGINEERING ANALYSIS OR DESIGN.



**AT&T SITE NUMBER:** CTL05379  
**AT&T SITE NAME:** CT NEW BRITAIN 3 CAC 803175  
**AT&T FA CODE:** 10091781  
**AT&T PACE NUMBER:** MRCTB051534, MRCTB051534  
**AT&T PROJECT:** 5G NR 1SR CBAND

**BUSINESS UNIT #:** 803175  
**SITE ADDRESS:** 167 COCCOMO NEW BRITAIN, CT 06051  
**COUNTY:** HARTFORD  
**SITE TYPE:** MONOPOLE  
**TOWER HEIGHT:** 188'-0"



**AT&T SITE NUMBER:** CTL05379  
**BU #:** 803175  
**NEW BRITAIN EAST**  
 167 COCCOMO  
 NEW BRITAIN, CT 06051  
 EXISTING  
 188'-0" MONOPOLE

**ISSUED FOR:**

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	9/30/21	AN	PRELIMINARY REVIEW	YXI
0	10/7/21	YXI	CONSTRUCTION	YXI
1	1/14/22	YX	CONSTRUCTION	YX

**SITE INFORMATION**

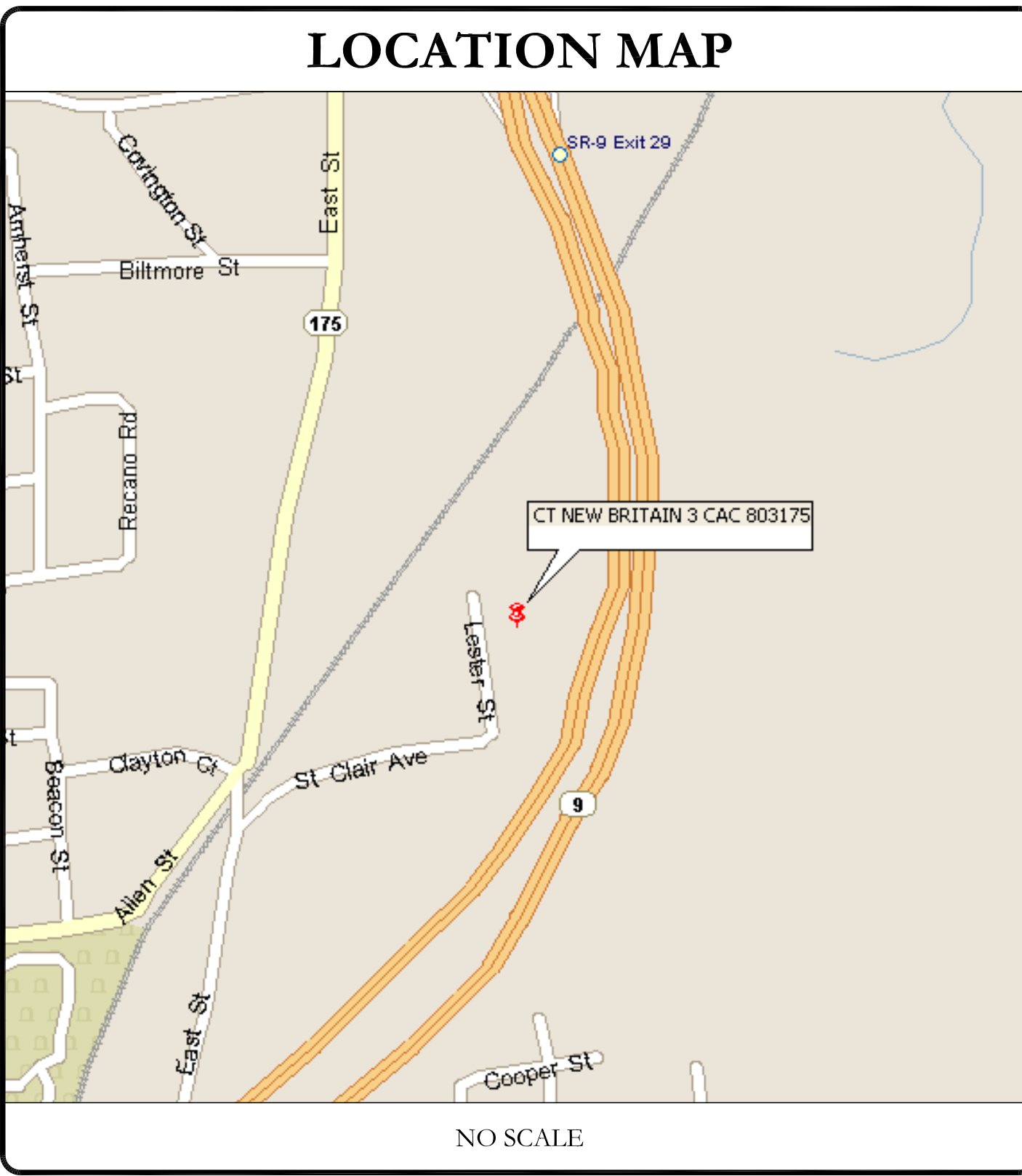
CROWN CASTLE USA INC.	NEW BRITAIN EAST
SITE NAME:	
SITE ADDRESS:	167 COCCOMO NEW BRITAIN, CT 06051
COUNTY:	HARTFORD
MAP/PARCEL #:	A5D 23
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41° 41' 11.80" N
LONGITUDE:	72° 45' 27.80" W
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	88'
CURRENT ZONING:	I2 GENERAL INDUSTRY
JURISDICTION:	CONNECTICUT SITING COUNCIL
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	CROWN ATLANTIC COMPANY LLC 4017 WASHINGTON RD PMB 353 MCMURRAY, PA 15317
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:	EVERSOURCE 800.286.2000
TELCO PROVIDER:	AT&T 844.315.0010

**DRAWING INDEX**

SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1.1	SITE PLAN
C-1.2	EXISTING & FINAL EQUIPMENT PLANS
C-2	FINAL ELEVATION & ANTENNA PLANS
C-3	FINAL EQUIPMENT SCHEDULE
C-4	EQUIPMENT MOUNTING DETAILS
C-5	EQUIPMENT SPECS
G-1	GROUNDING SCHEMATIC
G-2	GROUNDING DETAILS
ATTACHED	PLUMBING DIAGRAM
ATTACHED	MONT ANALYSIS
ATTACHED	MOUNT SPECS

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 24X36. 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 CBVD.COM CALL 2 WORKING DAYS BEFORE YOU DIG!



**PROJECT TEAM**

A&E FIRM:	B+T GROUP 1717 S BOULDER AVE, SUITE 300 TULSA, OK 74119 JENNY PAUL jpaul@btgrp.com
CROWN CASTLE USA INC. DISTRICT CONTACTS:	3530 TORINGDON WAY, SUITE 300 CHARLOTTE, NC 28277  PAUL PEDICONE - PROJECT MANAGER PAUL.PEDICONE@CROWNCastle.COM  JASON D'AMICO - CONSTRUCTION MANAGER JASON.DAMICO@CROWNCastle.COM

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

**PROJECT DESCRIPTION**

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

TOWER SCOPE OF WORK:

- RELOCATE (2) CCI - OPA-65R-LCUU-H4 ANTENNAS
- RELOCATE (3) ERICSSON - RRUS-32 B30 RADIOS
- RELOCATE (1) CCI - OPA65R-BU4DA ANTENNAS
- RELOCATE (3) ERICSSON - 4449 B5/B12 RADIOS
- RELOCATE (1) QUINTEL - QS46512-2 ANTENNAS
- RELOCATE (3) ERICSSON - RRUS-32 B66A RADIOS
- RELOCATE (2) CCI - OPA-65R-LCUU-H6 ANTENNAS
- INSTALL (3) SITEPRO - SMAST-3
- RELOCATE (2) CCI - OPA65R-BU6DA ANTENNAS
- INSTALL (1) QUINTEL - QD4616-7 ANTENNAS
- RELOCATE (2) QUINTEL - QS66512-2 ANTENNA
- INSTALL (3) ERICSSON - AIR6449 N77D+AIR6419 N77G STACKED ANTENNAS
- RELOCATE (6) ERICSSON - RRUS-32 B2 RADIOS
- INSTALL (2) QUINTEL - QD6616-7 ANTENNAS
- RELOCATE (3) ERICSSON - RRUS-E2 B29
- INSTALL (3) ERICSSON - 4415 B25 RADIOS
- RELOCATE (6) COAX CABLE
- INSTALL (3) RAYCAP - DC9-48-60-24-8C-EV SQUID
- RELOCATE (2) FIBER CABLE
- INSTALL (3) FIBER CABLE
- RELOCATE (8) DC CABLE
- INSTALL (3) FIBER CABLE
- RELOCATE (1) CCI - DMP65R-BU4DA ANTENNA
- INSTALL (9) DC CABLE

GROUND SCOPE OF WORK:

- INSTALL (1) 6673 FHG
- INSTALL (1) RECTIFIER SHELF
- INSTALL (6) RECTIFIERS
- INSTALL (33) VERTIV UP-CONVERTERS
- INSTALL (1) 19" DISTRIBUTION SHELF

**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.

**APPLICABLE CODES/REFERENCE DOCUMENTS**

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

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

**REFERENCE DOCUMENTS:**

STRUCTURAL ANALYSIS: TOWER ENGINEERING PROFESSIONALS  
DATED: 10/1/2021

MOUNT ANALYSIS: TEP  
DATED: 9/20/21

AC ELECTRICAL POWER DESIGN: BY OTHERS  
DATED:

RFDS REVISION: PRELIMINARY  
DATED: 7/27/21

ORDER ID: 556525  
REVISION: 1

B&T ENGINEERING, INC.  
PEC.0001564  
Expires 2/10/22

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.

<b>SHEET NUMBER:</b> <b>T-1</b>	<b>REVISION:</b> <b>1</b>
------------------------------------	------------------------------

85519.009.01\_CT\_NEW BRITAIN\_3\_CAC\_803175.dwg - Sheet: T-1 - User: jyxiong - Jan 14, 2022 - 4:51pm



AT&T SITE NUMBER:  
**CTL05379**

BU #: **803175**  
**NEW BRITAIN EAST**

167 COCCOMO  
NEW BRITAIN, CT 06051

EXISTING  
188'-0" MONOPOLE

**ISSUED FOR:**

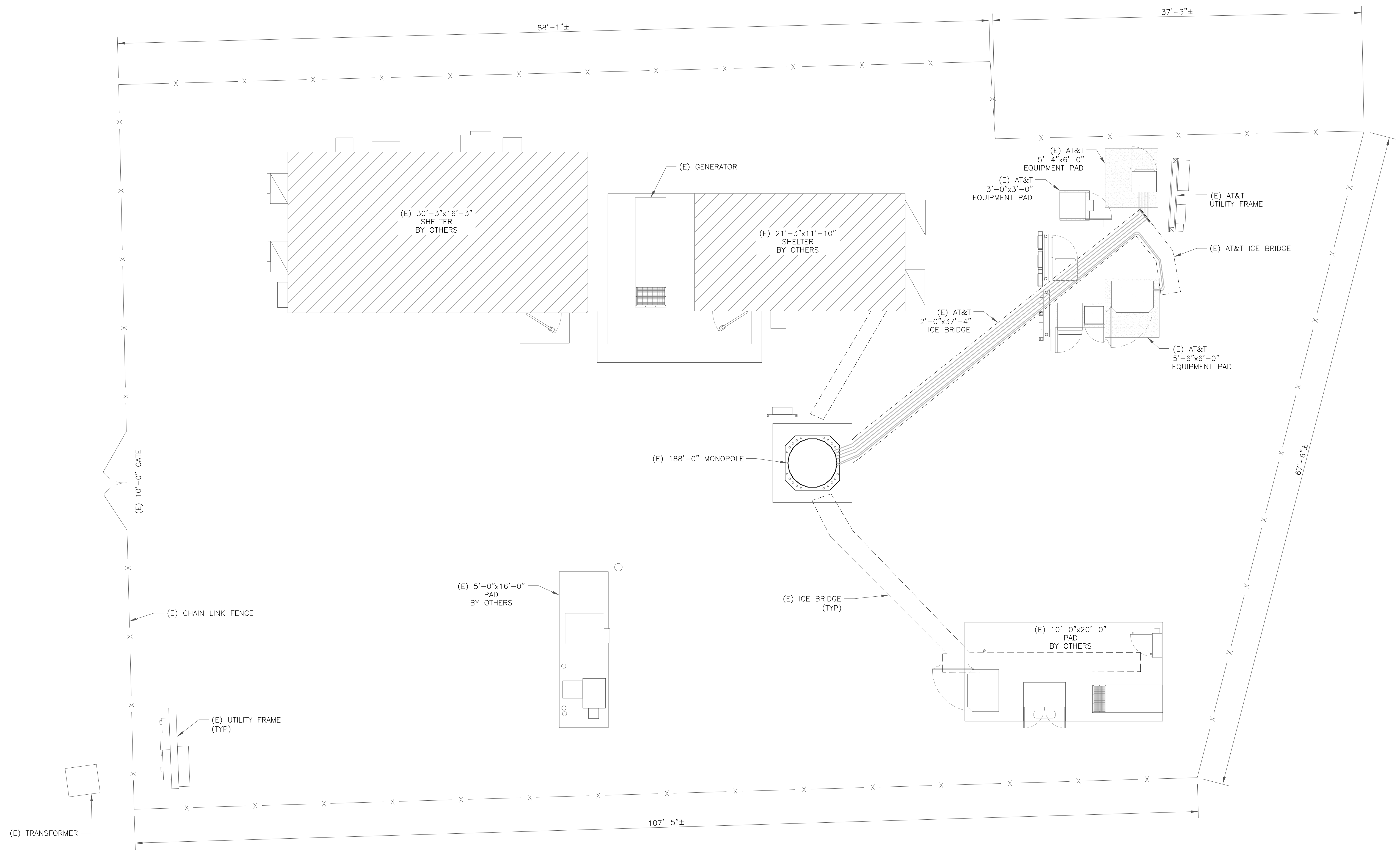
REV	DATE	DRWN	DESCRIPTION	DES./QA
A	9/30/21	AN	PRELIMINARY REVIEW	YXI
0	10/7/21	YXI	CONSTRUCTION	YXI
1	1/14/22	YX	CONSTRUCTION	YX

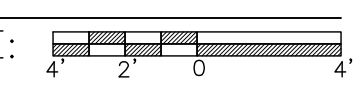


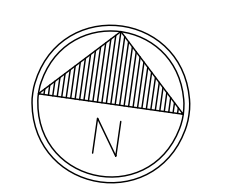
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SHEET NUMBER: **C-1.1** REVISION: **1**



1 SITE PLAN  
SCALE:  3/16"=1'-0" (FULL SIZE)  
3/32"=1'-0" (11x17)



**THIS PAGE CONTAINS  
CONFIDENTIAL, PROPRIETARY  
OR TRADE SECRET INFORMATION  
EXEMPT FROM DISCLOSURE  
UNDER APPLICABLE LAW.**

DISCLAIMER PROVIDED BY AT&T. THIS STATEMENT DOES NOT CONSTITUTE ENGINEERING ANALYSIS OR DESIGN.

85519.009.01\_CT\_NEW BRITAIN\_3 CAC\_803175.dwg - Sheet: C-1.1 - User: yxiong - Jan 14, 2022 - 4:53pm



AT&T SITE NUMBER:  
**CTL05379**

BU #: 803175  
**NEW BRITAIN EAST**

167 COCCOMO  
NEW BRITAIN, CT 06051

EXISTING  
188'-0" MONOPOLE

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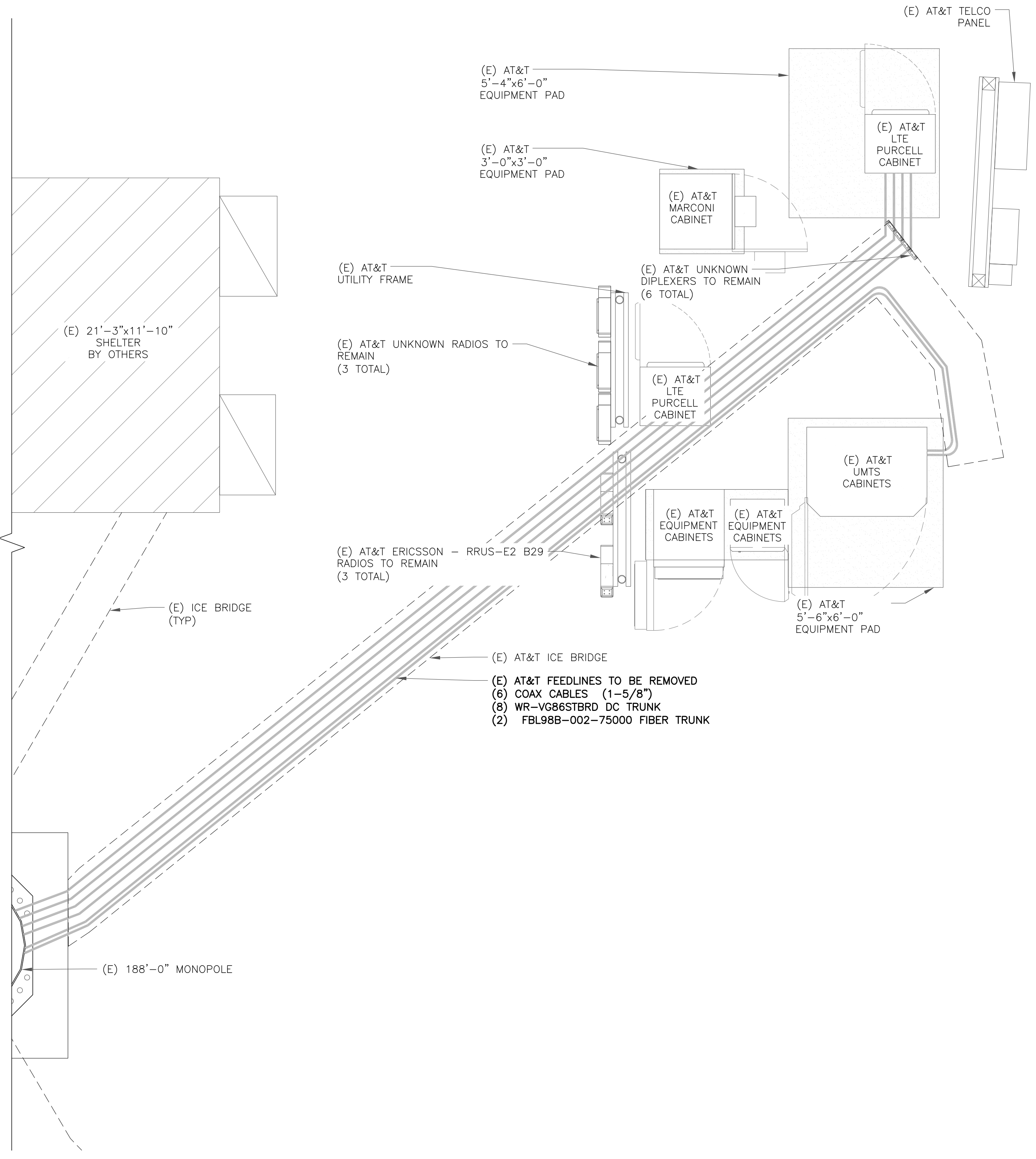
B&T ENGINEERING, INC.  
PEC.0001564  
Expires 2/10/22

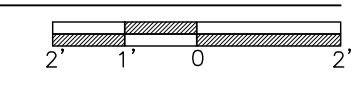
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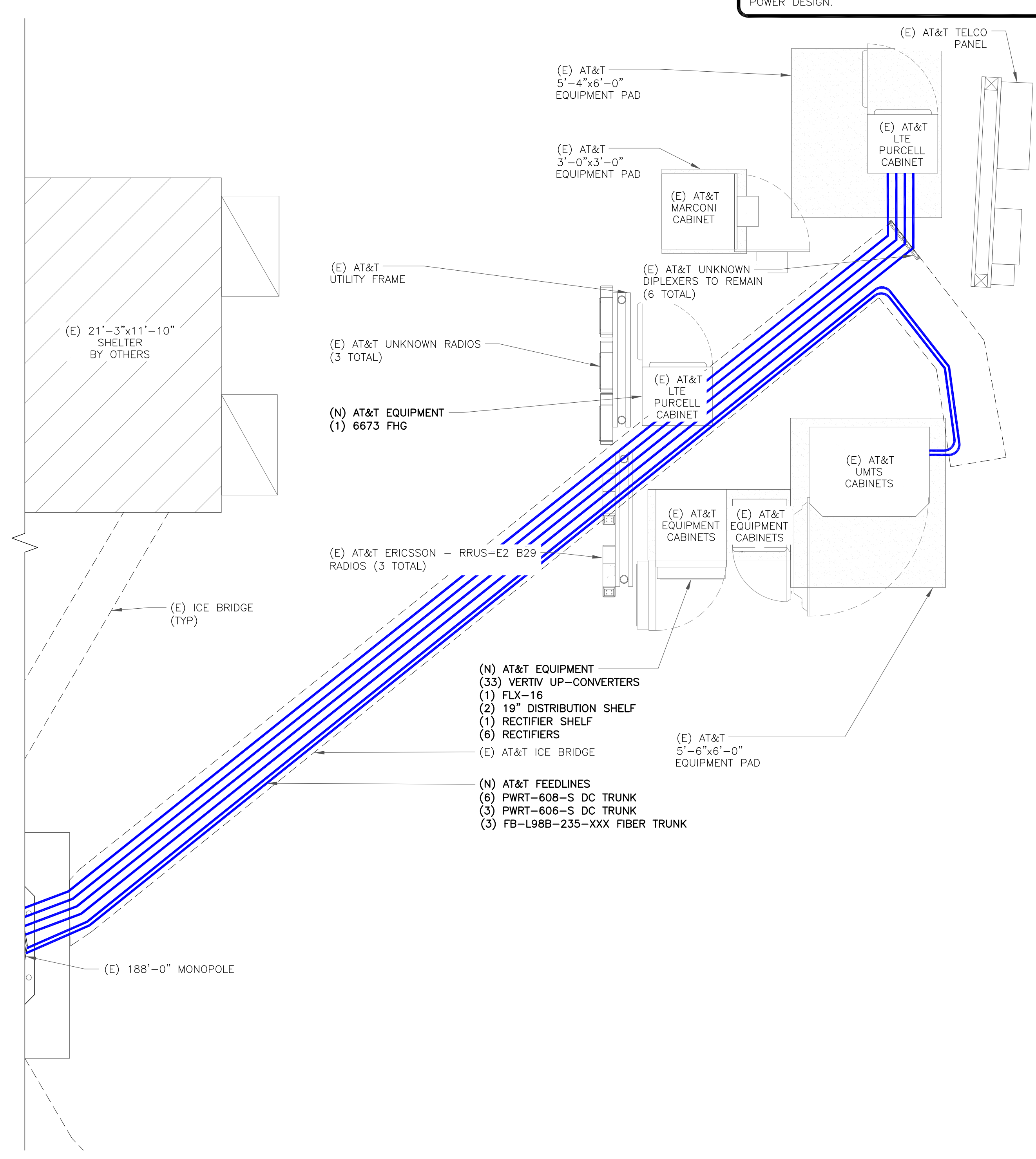
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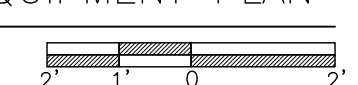
- GROUND SCOPE OF WORK:
- INSTALL (1) 6673 FHG
  - INSTALL (1) RECTIFIER SHELF
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1 EXISTING EQUIPMENT PLAN  
SCALE:  3/8"=1'-0" (FULL SIZE)  
3/16"=1'-0" (11x17)

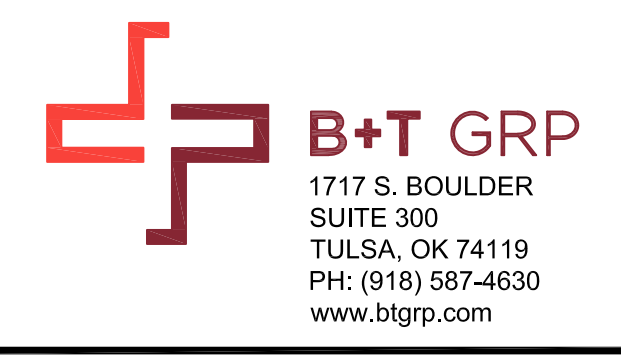


2 FINAL EQUIPMENT PLAN  
SCALE:  3/8"=1'-0" (FULL SIZE)  
3/16"=1'-0" (11x17)

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85519.009.01.ct NEW BRITAIN\_3 CAC 803175.dwg - Sheet: C-1.2 - User: yxiong - Jan 14, 2022 - 4:53pm



AT&T SITE NUMBER:  
**CTL05379**

BU #: 803175  
**NEW BRITAIN EAST**

167 COCCOMO  
NEW BRITAIN, CT 06051

EXISTING  
188'-0" MONOPOLE

**ISSUED FOR:**

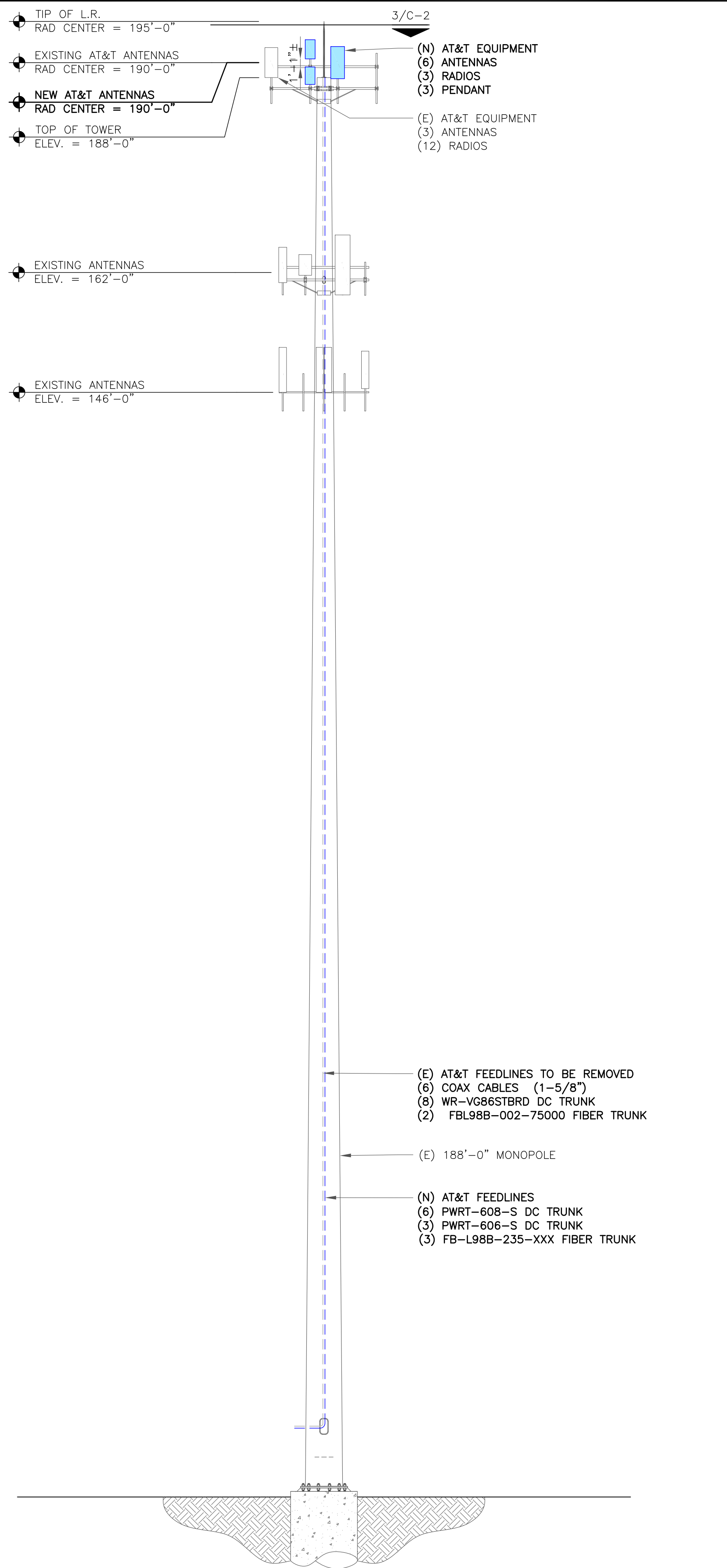
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0	10/7/21	YXI	CONSTRUCTION	YXI
1	1/14/22	YX	CONSTRUCTION	YX



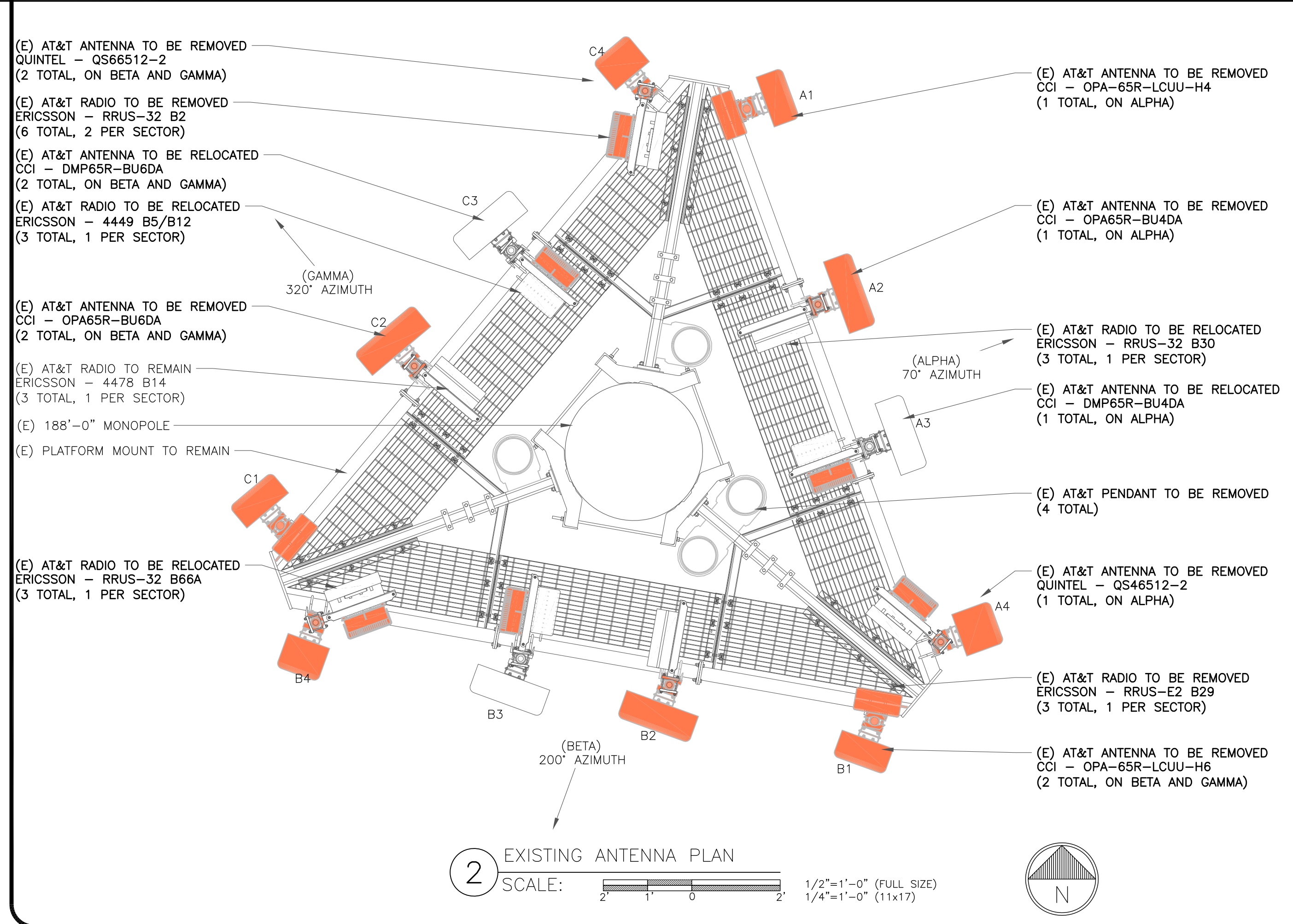
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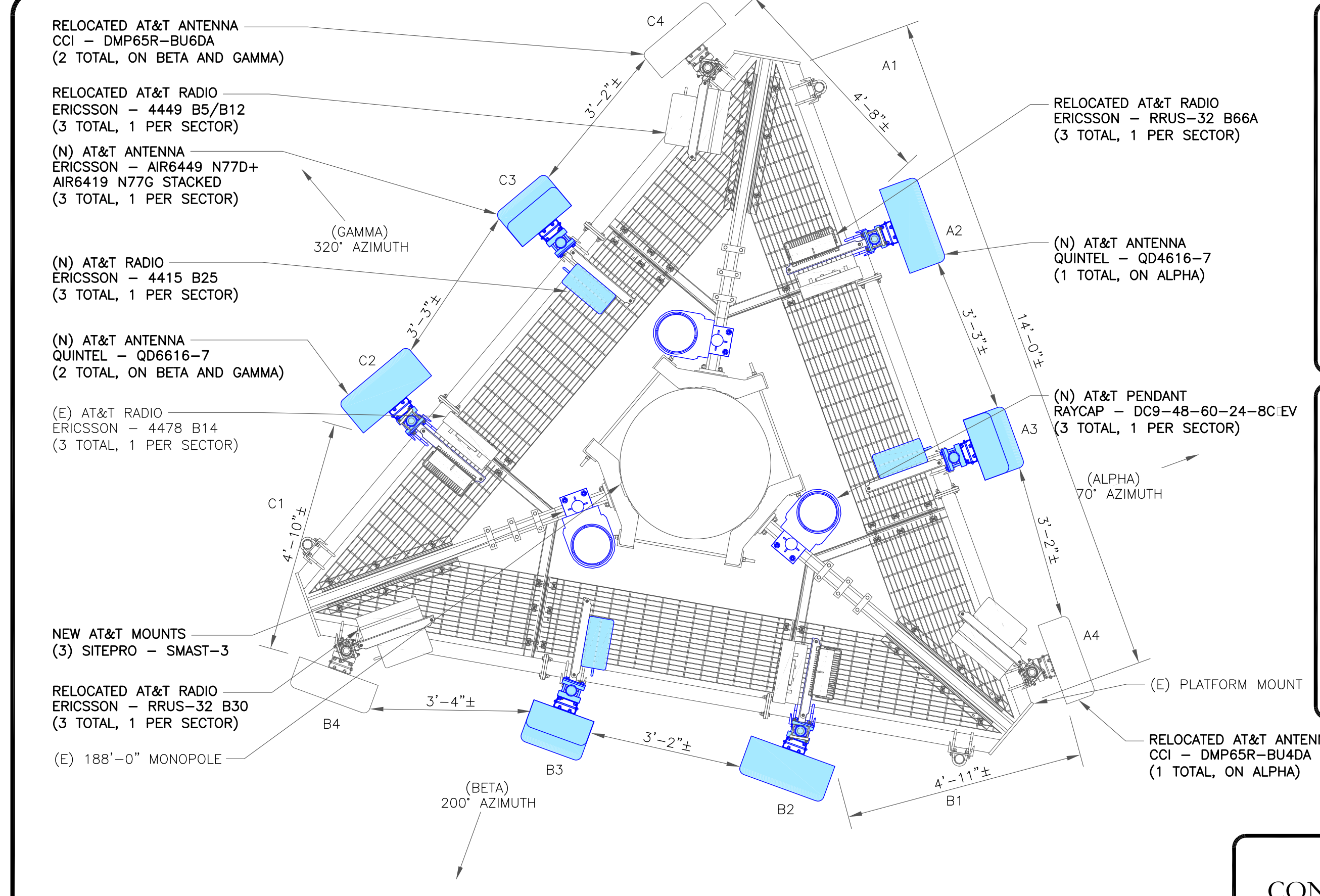
SHEET NUMBER: **C-2** REVISION: **1**



**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.

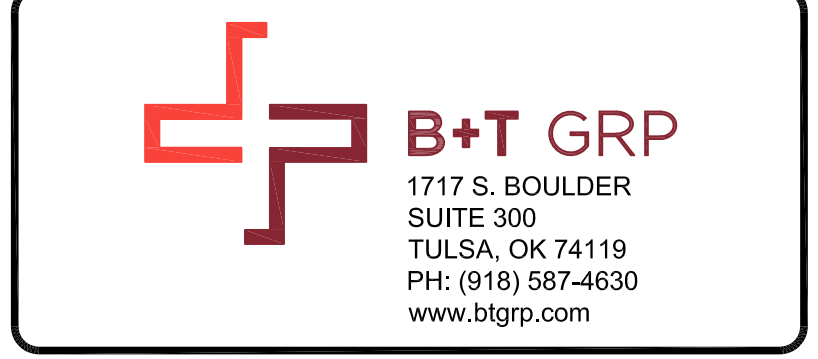
- INSTALLER NOTES:**
- REFERENCE C-3 FOR FINAL EQUIPMENT SCHEDULE.
  - REFERENCE C-4 FOR NEW EQUIPMENT SPECIFICATIONS.
  - CONTRACTOR TO VERIFY ALL ANTENNA TIP HEIGHTS DO NOT EXCEED BEACON BASE HEIGHT.
  - 3'-0" MINIMUM DISTANCE REQUIRED BETWEEN LTE ANTENNAS ON SAME SECTOR.
  - 6'-0" MINIMUM DISTANCE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

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**CTL05379**

BU #: **803175**  
**NEW BRITAIN EAST**

167 COCCOMO  
 NEW BRITAIN, CT 06051

EXISTING  
 188'-0" MONOPOLE

**ISSUED FOR:**

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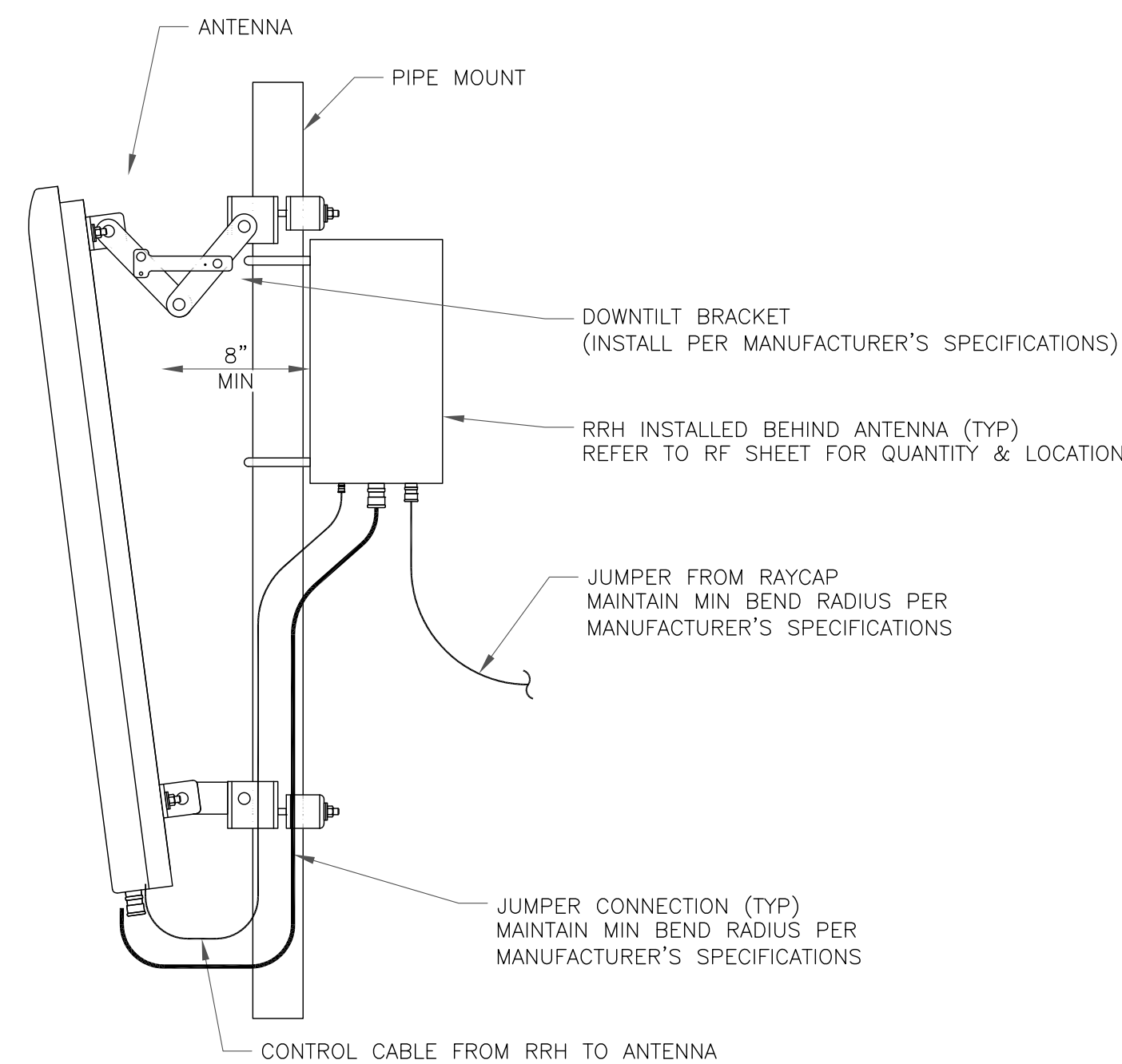
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**FINAL ANTENNA AND FEEDLINE SCHEDULE**

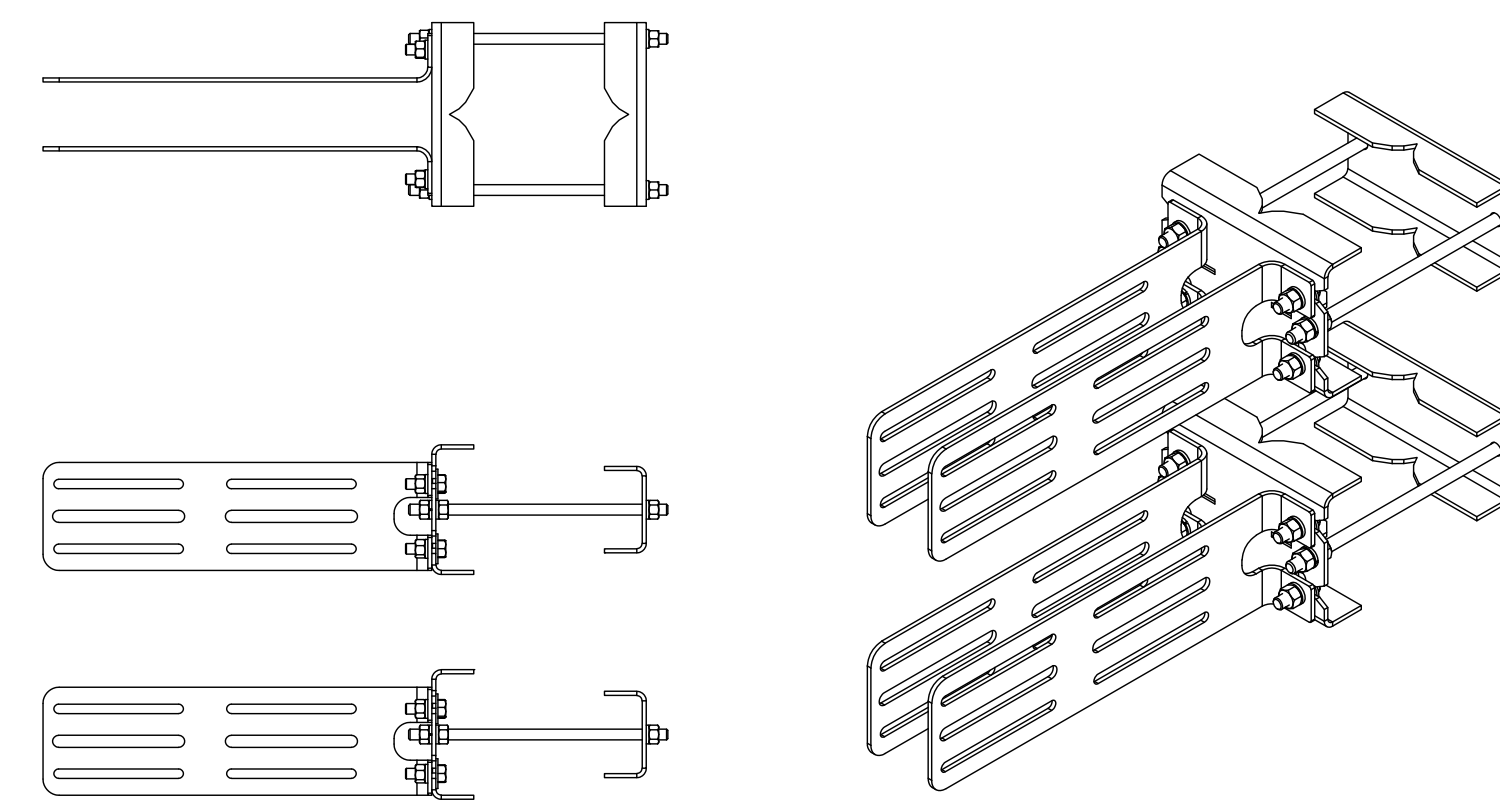
POS.	TECH	STATUS	AZIMUTH	ANTENNA TYPE	ANTENNA RAD CENTER	MECHANICAL DOWNTILT	ELECTRICAL DOWNTILT	MAIN COAX SIZE	MAIN COAX LENGTH	COAX QTY	TMA QTY AND MODEL	SURGE PROTECTION	DC/FIBER CABLES	RRHs QTY & MODEL ON TOWER	LOCATION	DIPLEXER ON TOWER	DIPLEXER ON GROUND	RET CABLE
ALPHA SECTOR																		
A1	-	-	-	EMPTY MOUNT PIPE	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A2	LTE 700 / LTE 1900 / LTE AWS / 5G 1900 / 5G AWS	NEW	70°	QUINTEL - QD4616-7	190'-0"	0°	3° / 11° / 7° / 7° / 7° / 7°	-	-	-	-	-	(N) (3) PWRT-608-S DC TRUNK (N) (1) FB-L98B-235-XXX FIBER TRUNK	(1) ERICSSON - 4478 B14 (1) ERICSSON - RRUS-32 B66A (1) ERICSSON - 4415 B25	TOWER	N	N	N
A3	5G CBAND	NEW	70°	ERICSSON - AIR6449 B77D ERICSSON - AIR6419 B77G	190'-0" 190'-0"	0° 0°	-	-	-	-	-	(1)DC9-48-60-24-8C-EV	(N) (3) PWRT-608-S DC TRUNK (N) (1) FB-L98B-235-XXX FIBER TRUNK	INTEGRATED RADIO	TOWER	N	N	N
A4	LTE 700 / LTE WCS / 5G 850	EXISTING	70°	CCI - DMP65R-BU4DA	190'-0"	0°	11° / 4° / 11°	-	-	-	-	-	(1) ERICSSON - 4449 B5/B12 (1) ERICSSON - RRUS-32 B30	TOWER	N	N	N	
BETA SECTOR																		
B1	-	-	-	EMPTY MOUNT PIPE	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B2	LTE 700 / LTE 1900 / LTE AWS / 5G 1900 / 5G AWS	NEW	200°	QUINTEL - QD6616-7	190'-0"	0°	3° / 4° / 3° / 3° / 3° / 7° / 3° / 3°	-	-	-	-	-	(N) (3) PWRT-608-S DC TRUNK (N) (1) FB-L98B-235-XXX FIBER TRUNK	(1) ERICSSON - 4478 B14 (1) ERICSSON - RRUS-32 B66A (1) ERICSSON - 4415 B25	TOWER	N	N	N
B3	5G CBAND	NEW	200°	ERICSSON - AIR6449 B77D ERICSSON - AIR6419 B77G	190'-0" 190'-0"	0° 0°	-	-	-	-	-	(1)DC9-48-60-24-8C-EV	(N) (3) PWRT-608-S DC TRUNK (N) (1) FB-L98B-235-XXX FIBER TRUNK	INTEGRATED RADIO	TOWER	N	N	N
B4	LTE 700 / LTE WCS / 5G 850	EXISTING	200°	CCI - DMP65R-BU6DA	190'-0"	0°	4° / 1° / 4°	-	-	-	-	-	(1) ERICSSON - 4449 B5/B12 (1) ERICSSON - RRUS-32 B30	TOWER	N	N	N	
GAMMA SECTOR																		
C1	-	-	-	EMPTY MOUNT PIPE	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C2	LTE 700 / LTE 1900 / LTE AWS / 5G 1900 / 5G AWS	NEW	320°	QUINTEL - QD6616-7	190'-0"	0°	3° / 3° / 3° / 3° / 3° / 7° / 3° / 3°	-	-	-	-	-	(N) (3) PWRT-606-S DC TRUNK (N) (1) FB-L98B-235-XXX FIBER TRUNK	(1) ERICSSON - 4478 B14 (1) ERICSSON - RRUS-32 B66A (1) ERICSSON - 4415 B25	TOWER	N	N	N
C3	<b>NOTE: BOLD DENOTES NEW EQUIPMENT</b> 5G CBAND (E) - EXISTING (N) - NEW	NEW	320°	ERICSSON - AIR6449 B77D ERICSSON - AIR6419 B77G	190'-0" 190'-0"	0° 0°	-	-	-	-	-	(1)DC9-48-60-24-8C-EV	(N) (3) PWRT-606-S DC TRUNK (N) (1) FB-L98B-235-XXX FIBER TRUNK	INTEGRATED RADIO	TOWER	N	N	N
C4	LTE 700 / LTE WCS / 5G 850	EXISTING	320°	CCI - DMP65R-BU6DA	190'-0"	0°	3° / 2° / 3°	-	-	-	-	-	(1) ERICSSON - 4449 B5/B12 (1) ERICSSON - RRUS-32 B30	TOWER	N	N	N	

1 FINAL ANTENNA AND FEEDLINE SCHEDULE  
 SCALE: NOT TO SCALE

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1 GENERIC ANTENNA MOUNTING ELEVATION  
SCALE: NOT TO SCALE



COMMSCOPE - RR-FA2  
FAST ACCESS DUAL RRH MOUNT

2 COMMSCOPE - RR-FA2  
SCALE: NOT TO SCALE

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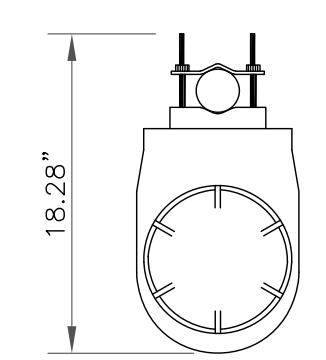
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**NEW BRITAIN EAST**

167 COCCOMO  
NEW BRITAIN, CT 06051

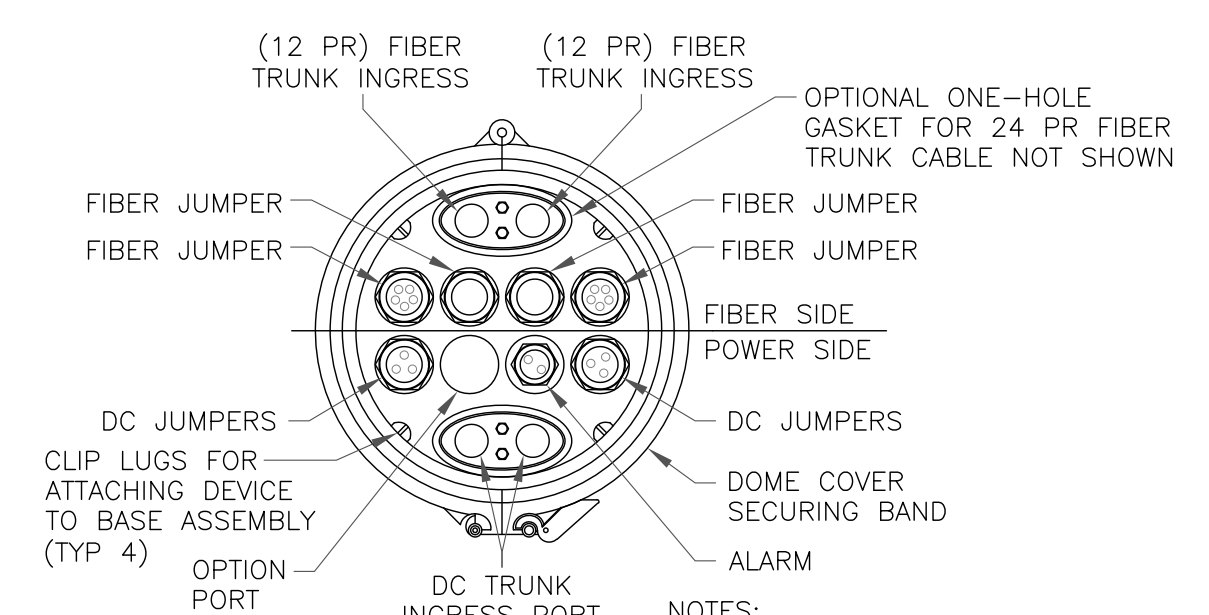
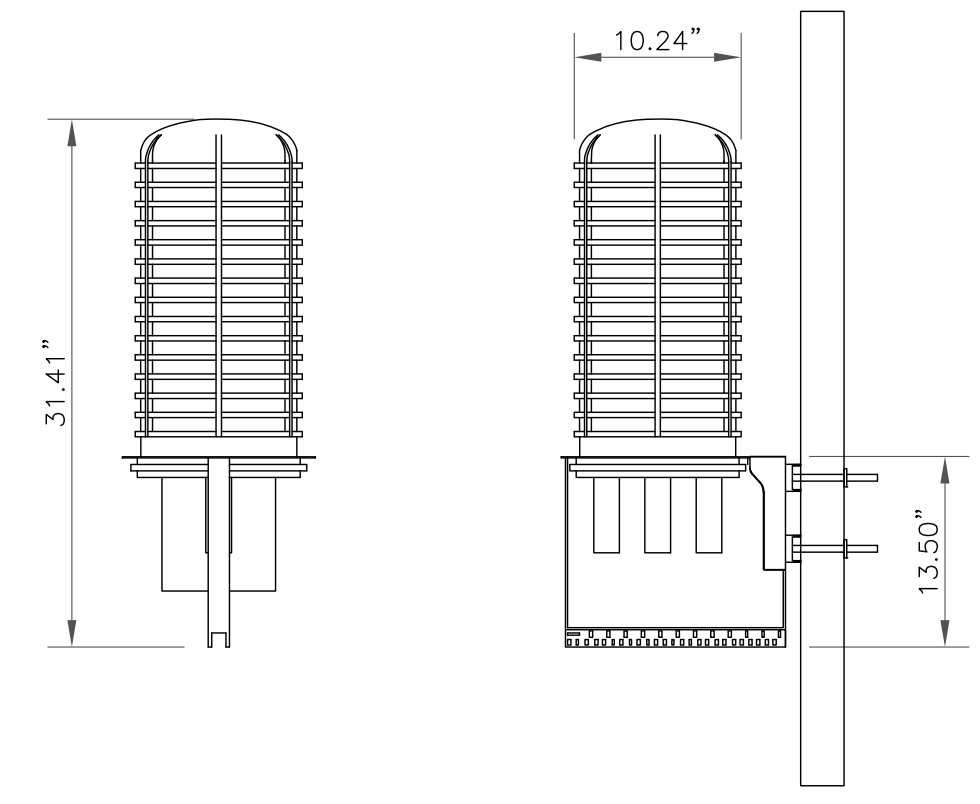
EXISTING  
188'-0" MONOPOLE

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)



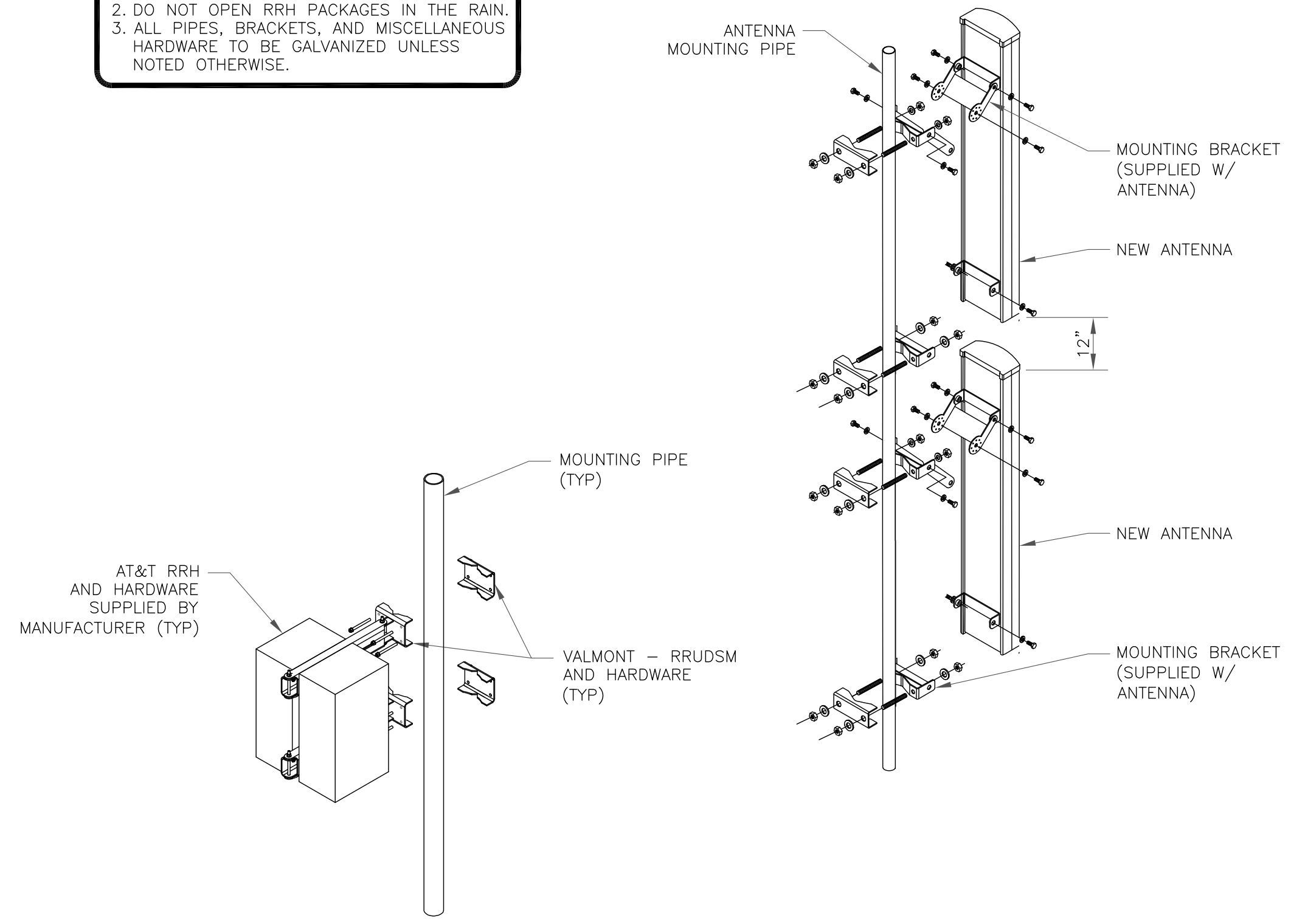
CONTRACTOR TO USE "THREAD LUBRICANT" ON MOUNTING BOLTS DURING INSTALLATION



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.

5 SQUID MOUNTING DETAIL  
SCALE: NOT TO SCALE

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



1 AEQU ANTENNA WITH RRHs MOUNTING DETAIL  
SCALE: NOT TO SCALE

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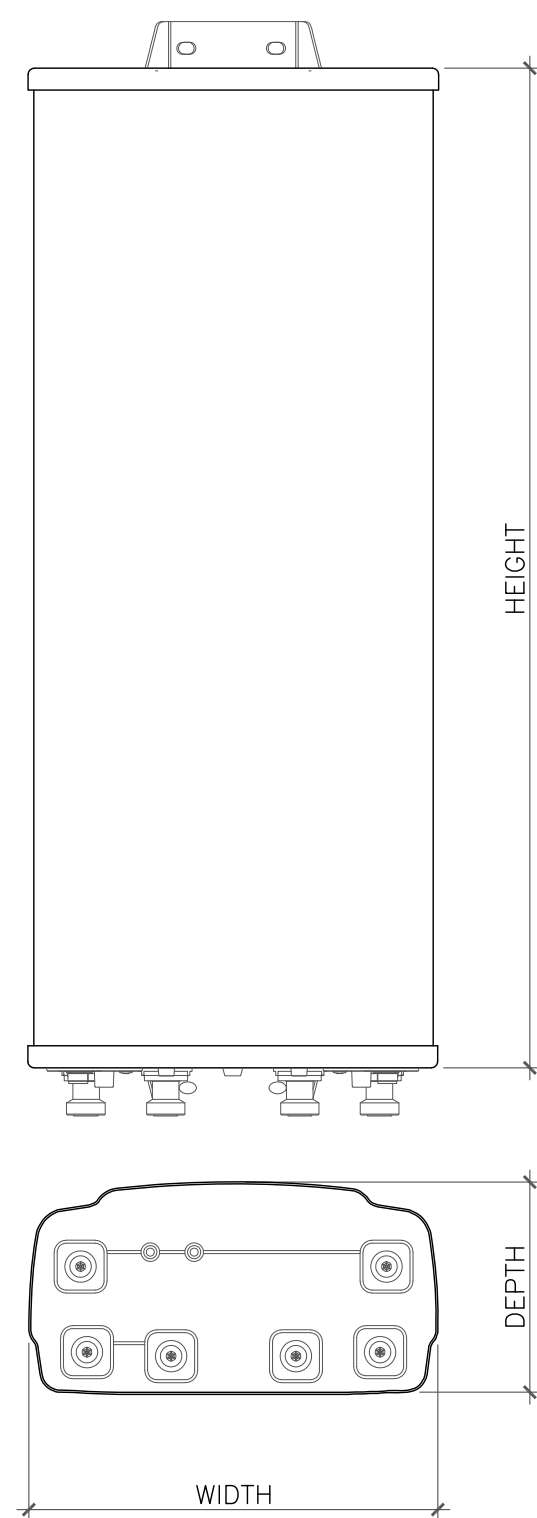
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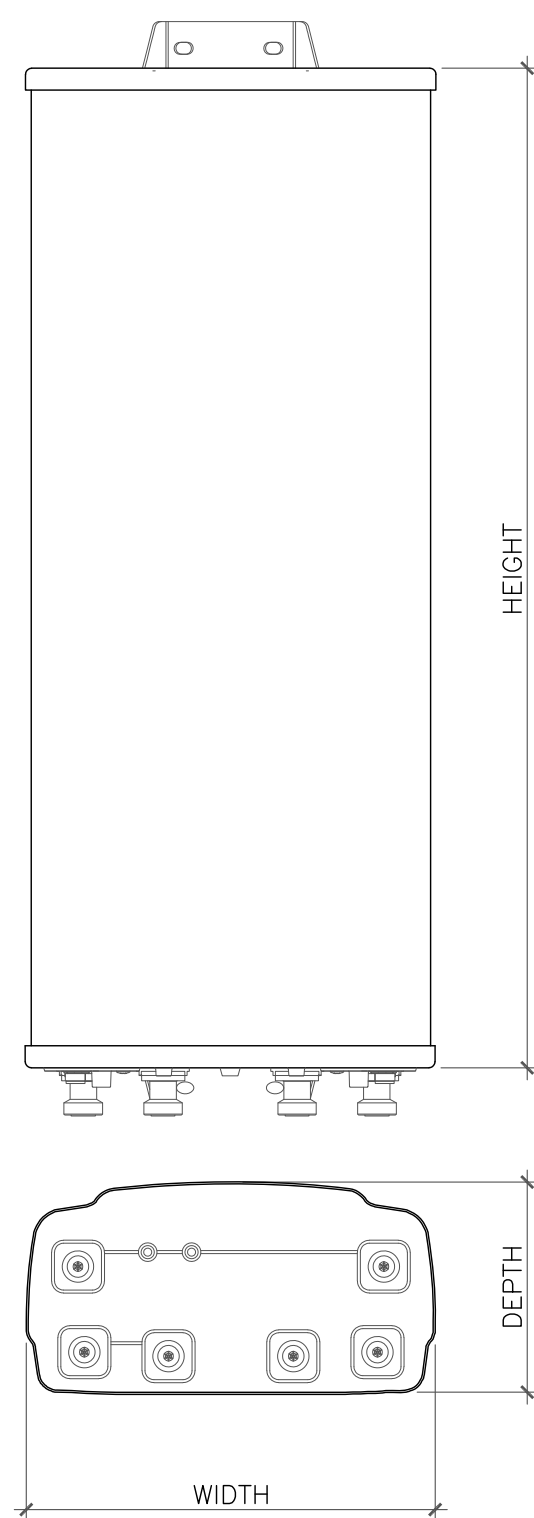
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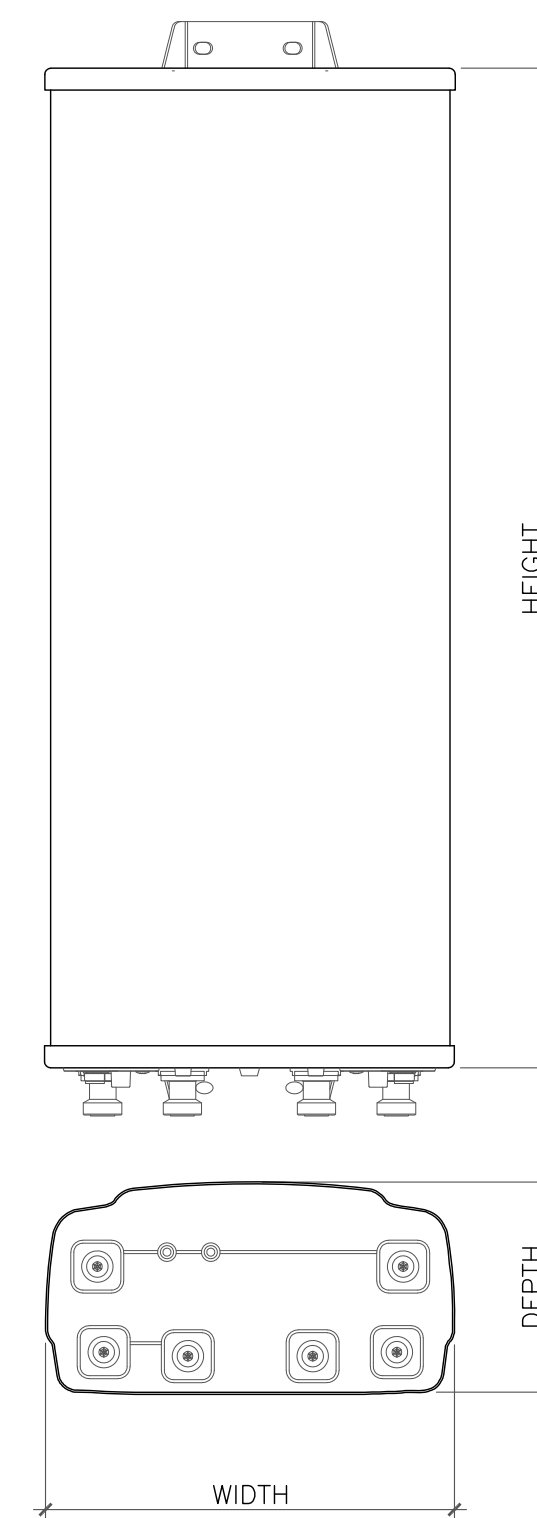
ANTENNA DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
QD4616-7	51.5"	22.0"	9.60"	109.0 lbs

1 ANTENNA DETAIL  
SCALE: NOT TO SCALE



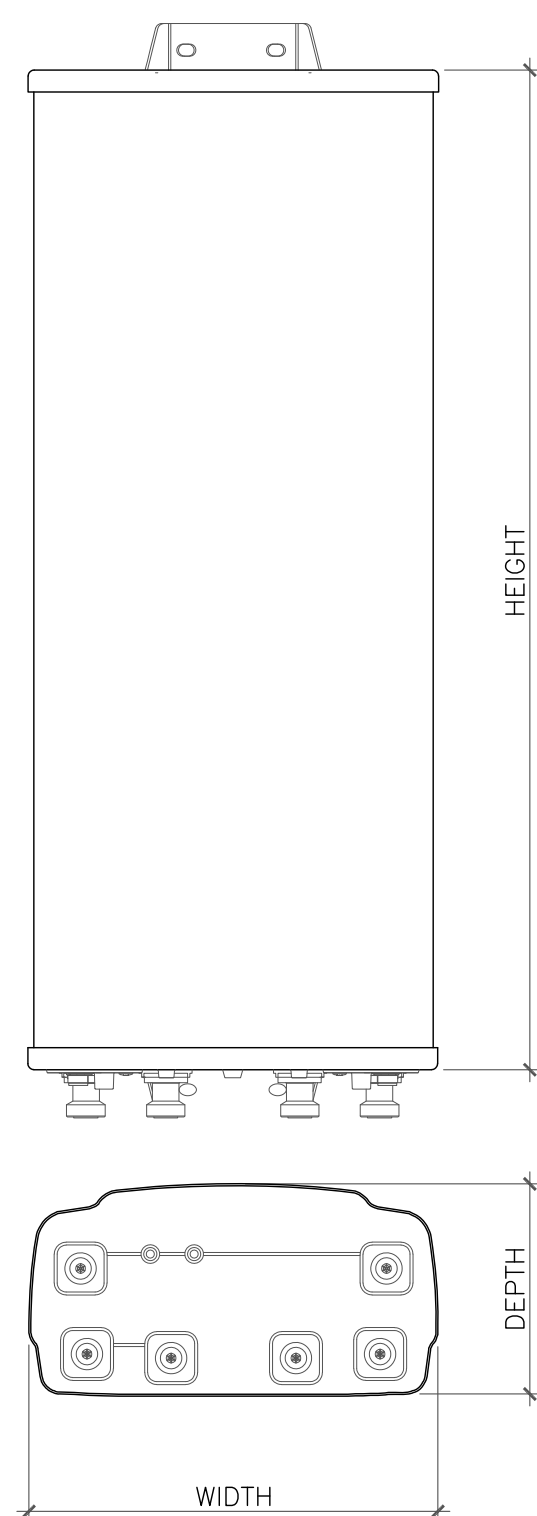
ANTENNA DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
AIR6449 N77D	30.63"	15.87"	10.55"	83.78 lbs

2 ANTENNA DETAIL  
SCALE: NOT TO SCALE



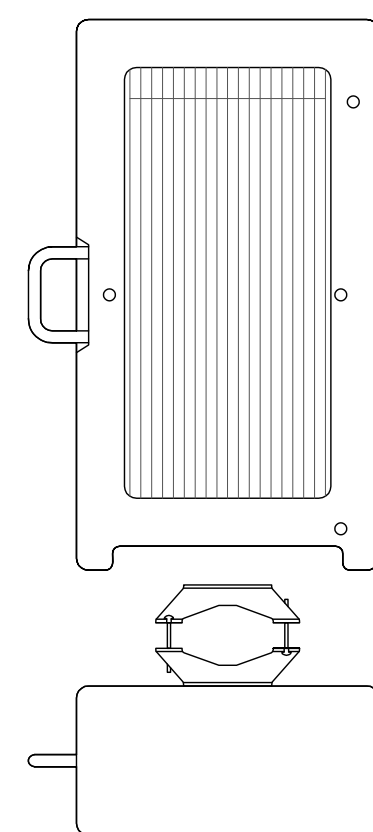
ANTENNA DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
AIR6419 N77G	27.95"	15.75"	6.68"	66.20 lbs

3 ANTENNA DETAIL  
SCALE: NOT TO SCALE



ANTENNA DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
QD6616-7	72.0"	22.0"	9.6"	130.0 lbs

4 ANTENNA DETAIL  
SCALE: NOT TO SCALE



ERICSSON - 4415 B25  
WEIGHT (FULLY EQUIPPED): 44.0 LBS  
SIZE (HxWxD): 14.96x13.19x5.39 IN.  
CONNECTOR TYPE: 4.3-10 FEMALE (4 TOTAL PORTS)

5 ERICSSON - 4415 B25  
SCALE: NOT TO SCALE

6 NOT USED  
SCALE: NOT TO SCALE

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ATLANTA, GA 30324-3300

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BU #: 803175  
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167 COCCOMO  
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EXISTING  
188'-0" MONOPOLE

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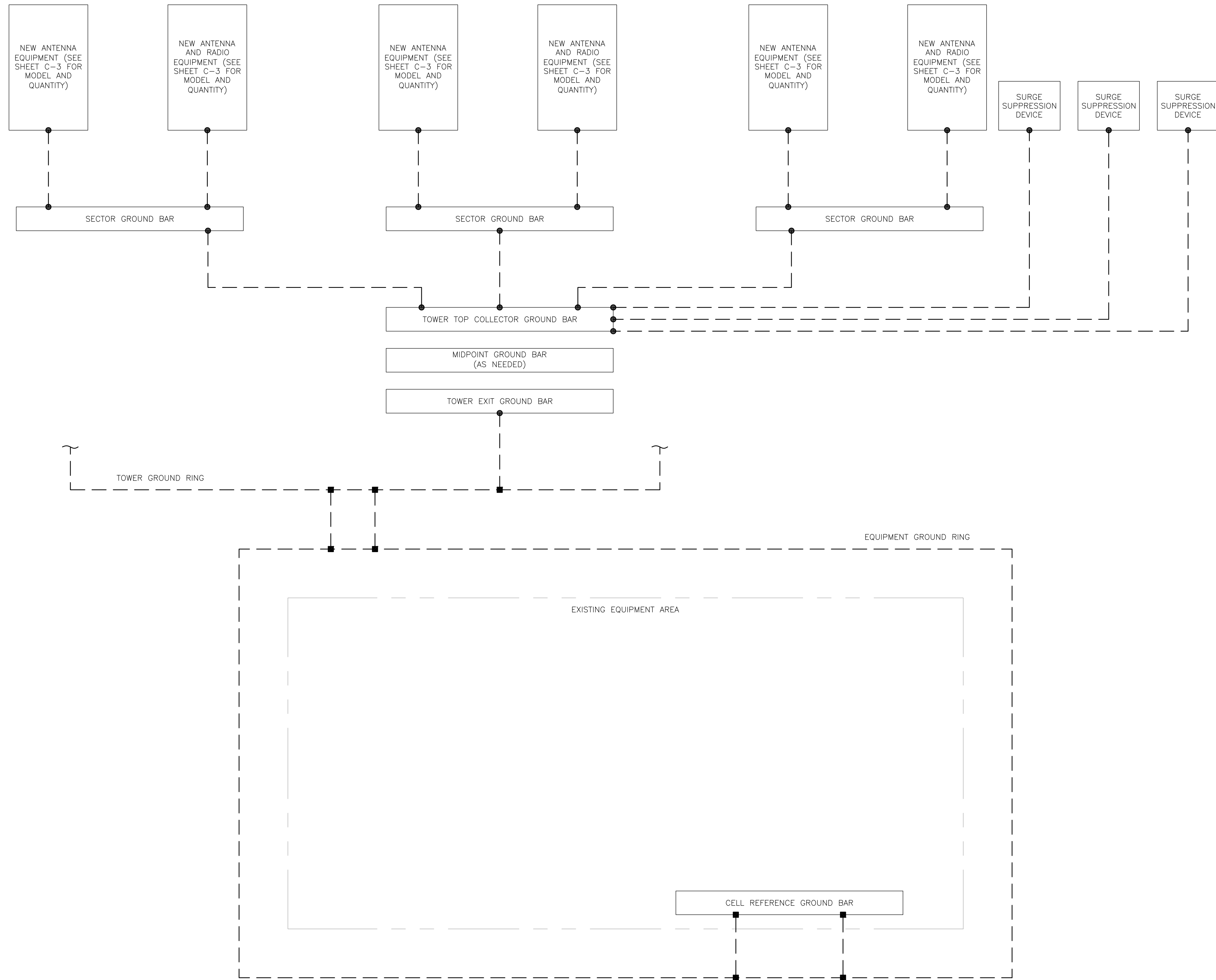
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**GROUNDING PLAN LEGEND:**

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

**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.

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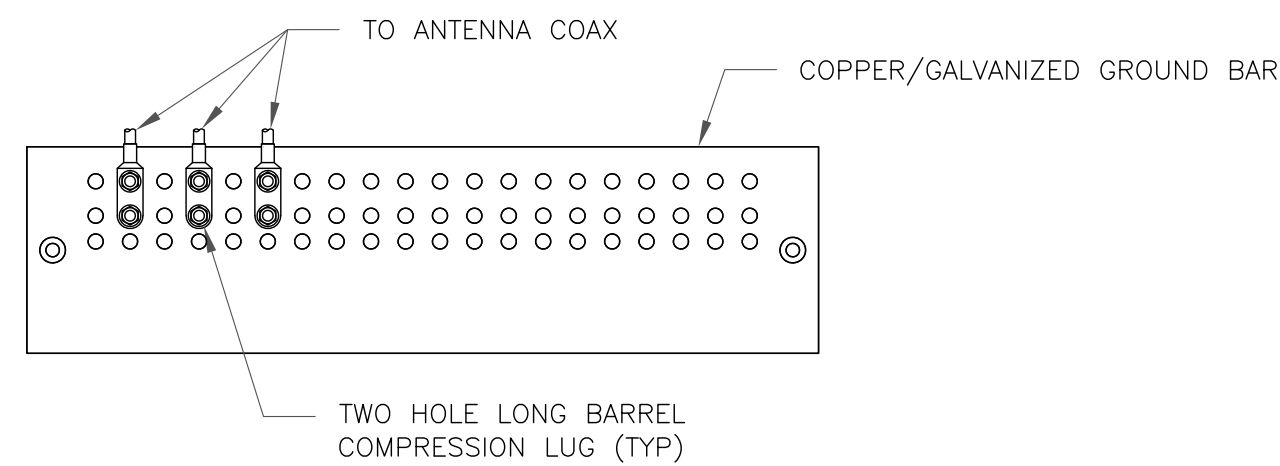
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**1** GROUNDING SCHEMATIC  
SCALE: NOT TO SCALE

**SHEET NUMBER:**  
**G-1**

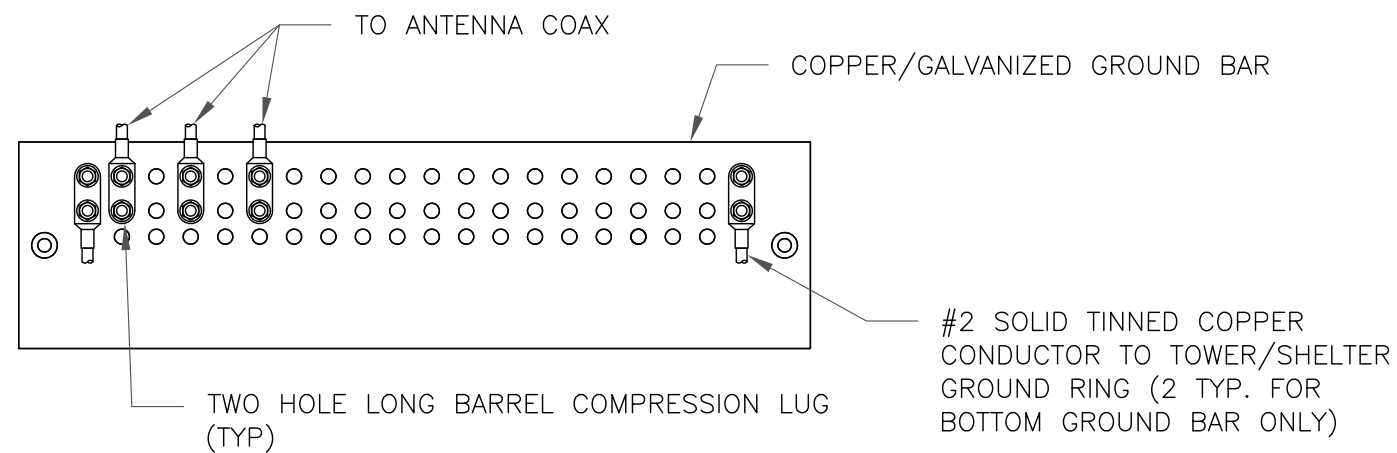
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NOTES:

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

1 ANTENNA SECTOR GROUND BAR DETAIL  
SCALE: NOT TO SCALE

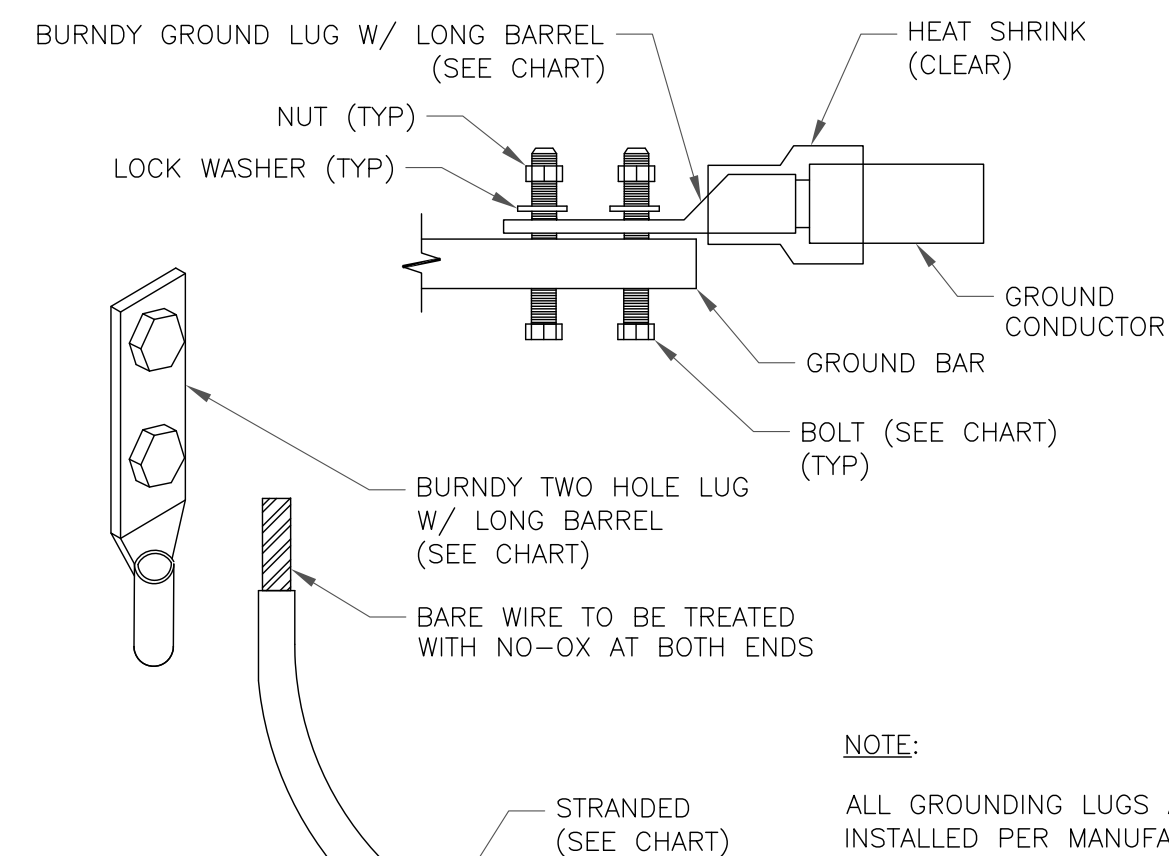


NOTES:

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

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

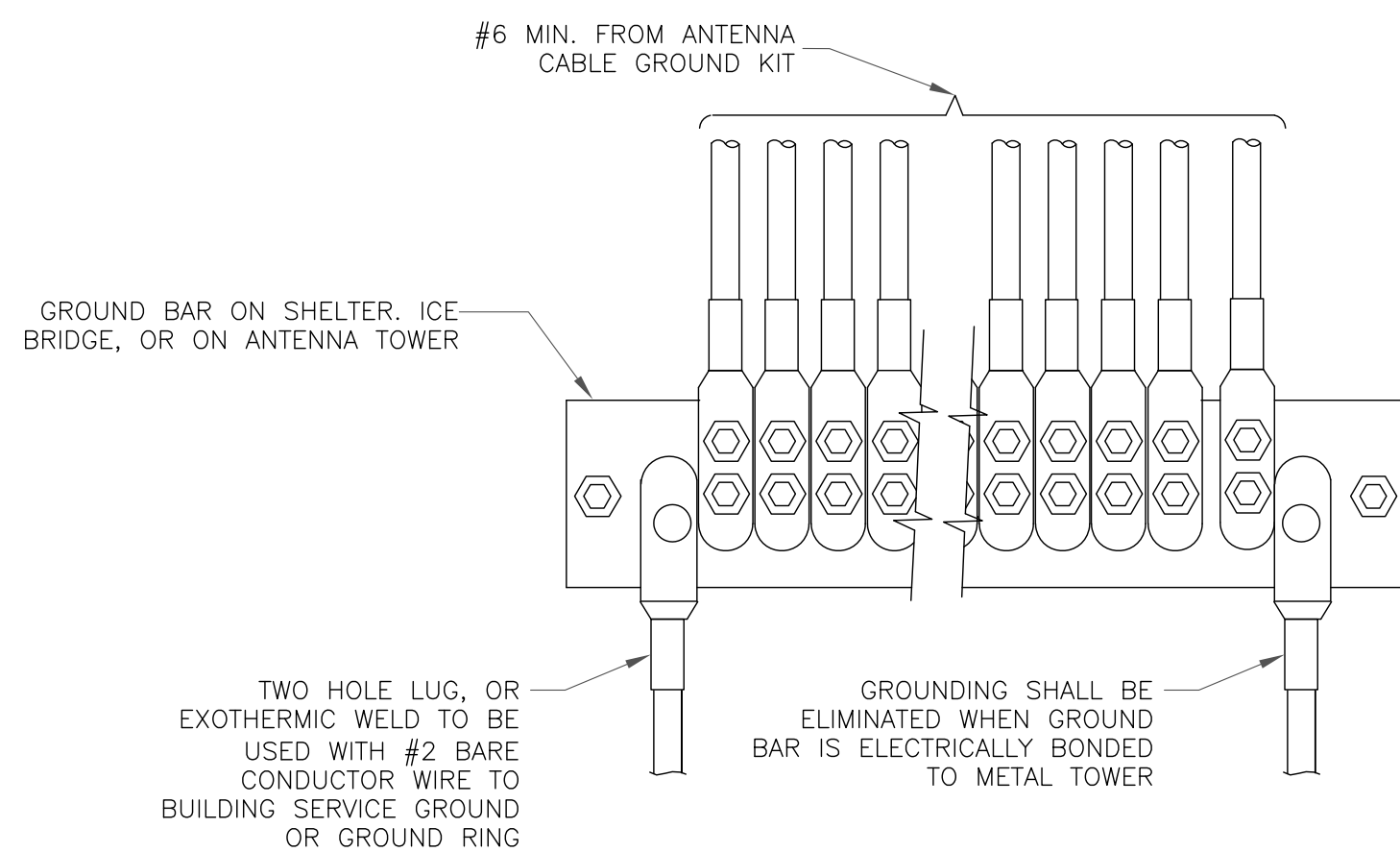
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 SOLID TINNED	YA3C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 STRANDED	YA2C-2TC38	3/8" - 16 NC SS 2 BOLT
#2/0 STRANDED	YA26-2TC38	3/8" - 16 NC SS 2 BOLT
#4/0 STRANDED	YA28-2N	1/2" - 16 NC SS 2 BOLT



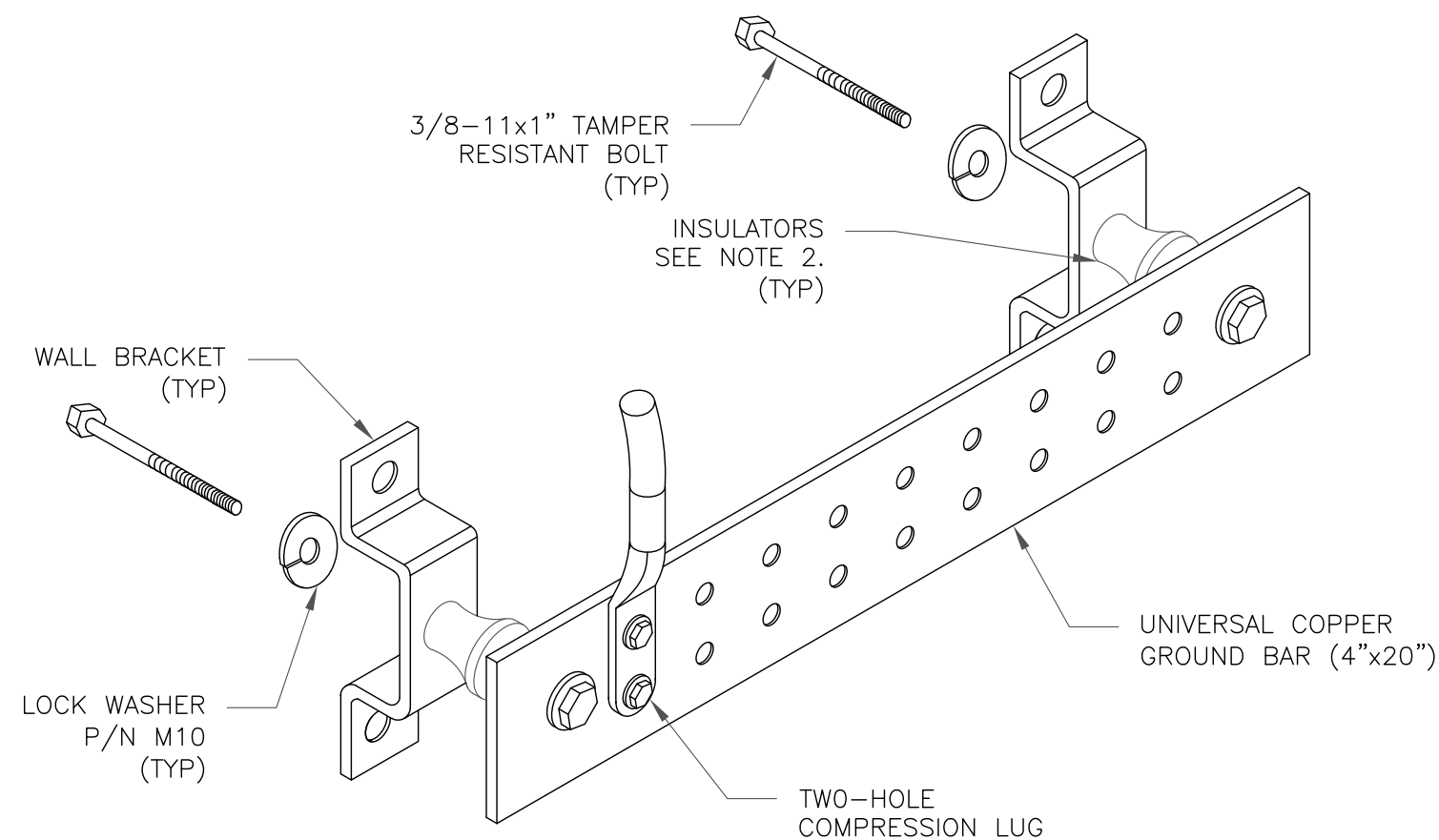
NOTE:

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



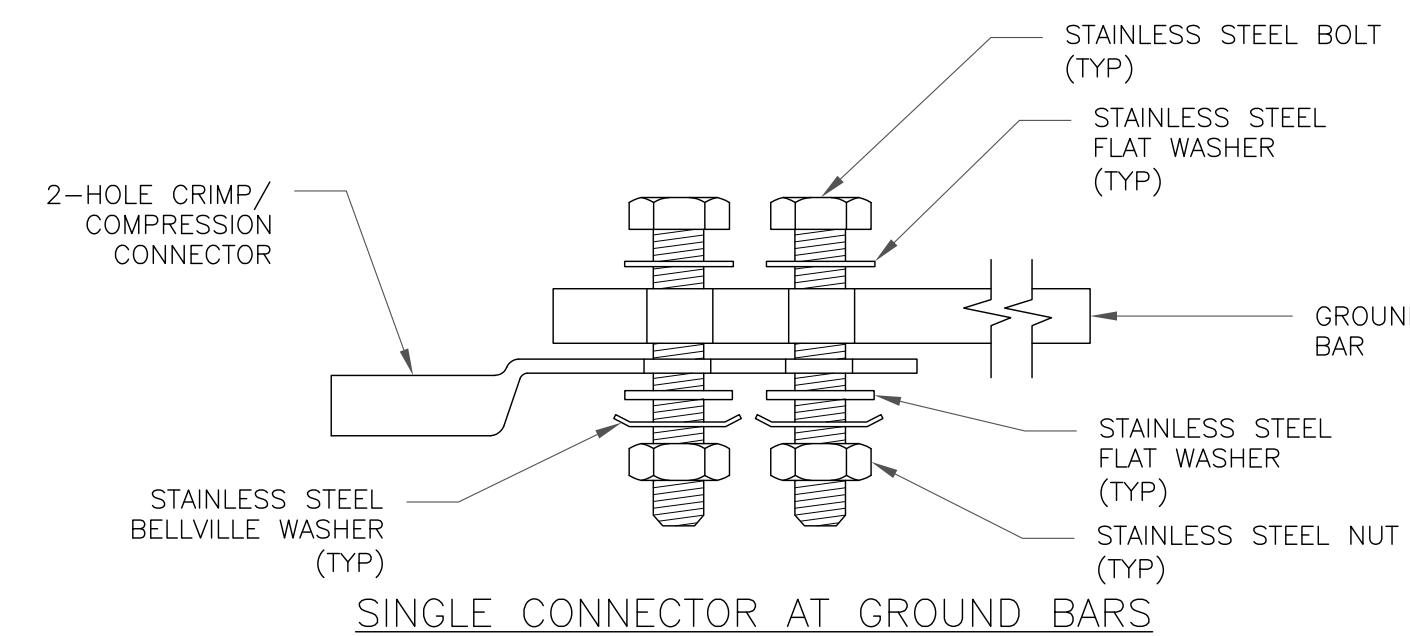
4 GROUNDWIRE INSTALLATION  
SCALE: NOT TO SCALE



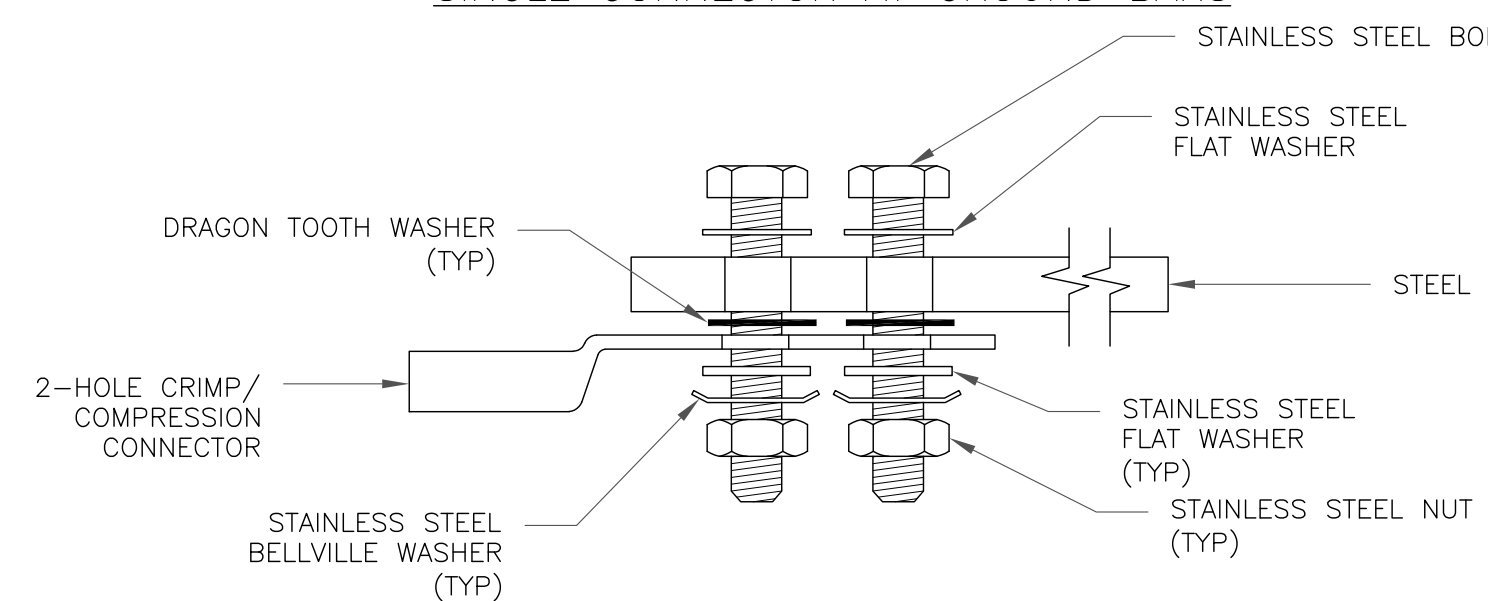
NOTES:

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.

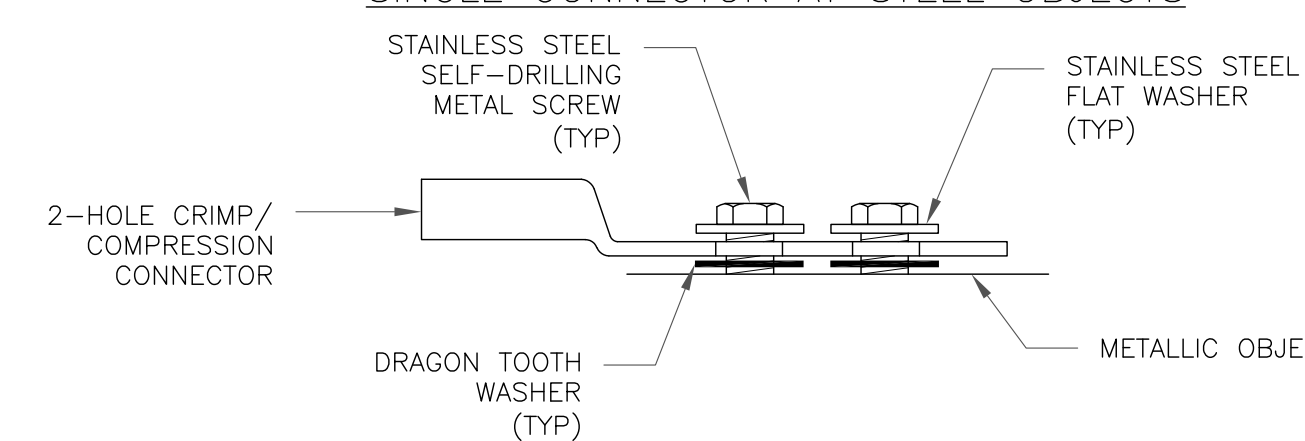
5 GROUND BAR DETAIL  
SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS

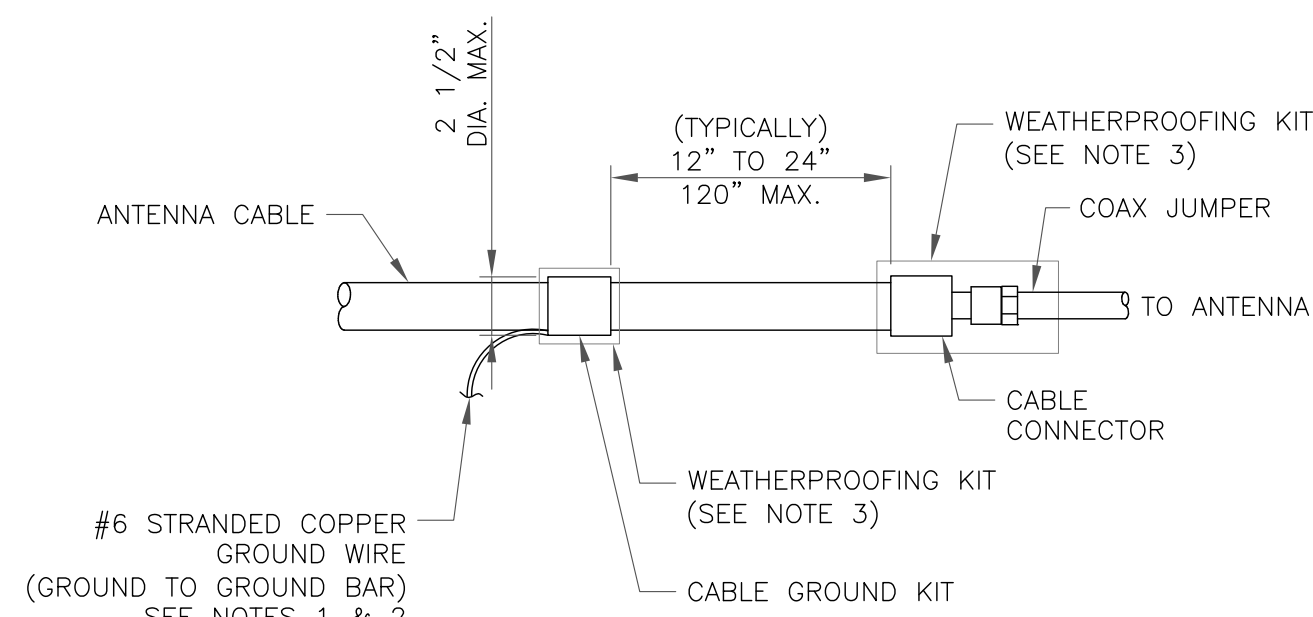


SINGLE CONNECTOR AT STEEL OBJECTS



SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

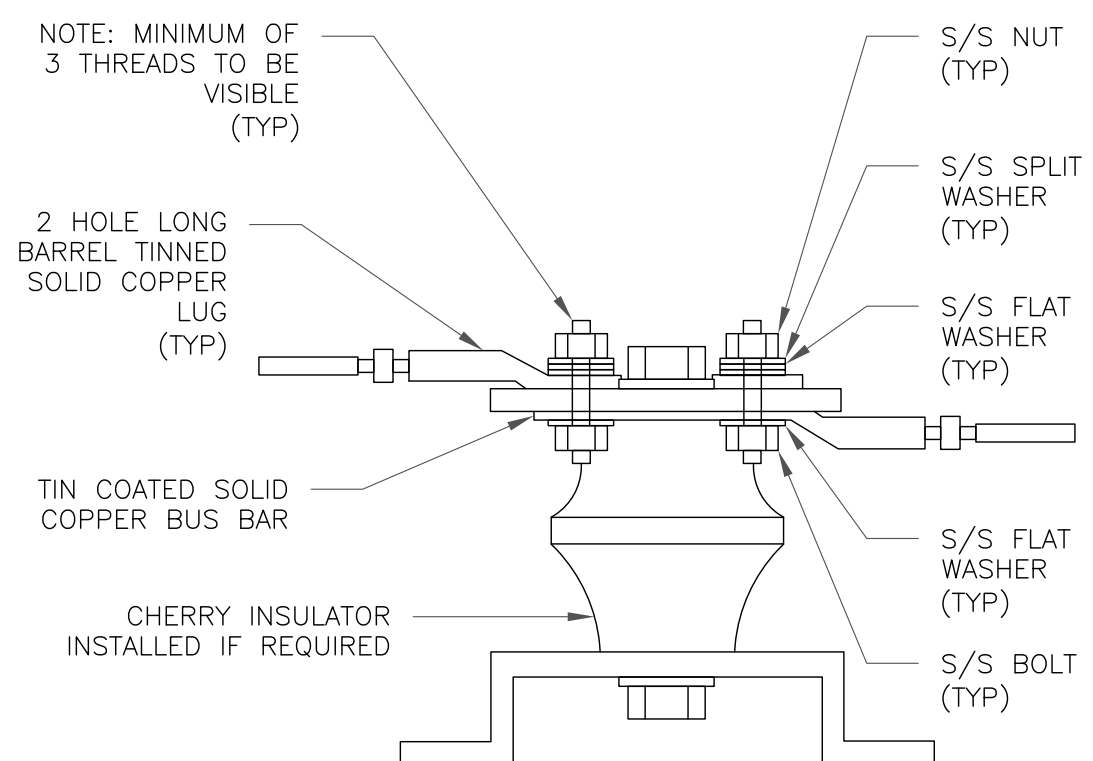
8 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS  
SCALE: NOT TO SCALE



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

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ATLANTA, GA 30324-3300

3530 TORINGDON WAY, SUITE 300  
CHARLOTTE, NC 28277

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

AT&T SITE NUMBER:  
CTL05379

BU #: 803175  
NEW BRITAIN EAST

167 COCCOMO  
NEW BRITAIN, CT 06051

EXISTING  
188'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	9/30/21	AN	PRELIMINARY REVIEW	YXI
0	10/7/21	YXI	CONSTRUCTION	YXI
1	1/14/22	YX	CONSTRUCTION	YX



B&T ENGINEERING, INC.  
PEC.0001564  
Expires 2/10/22

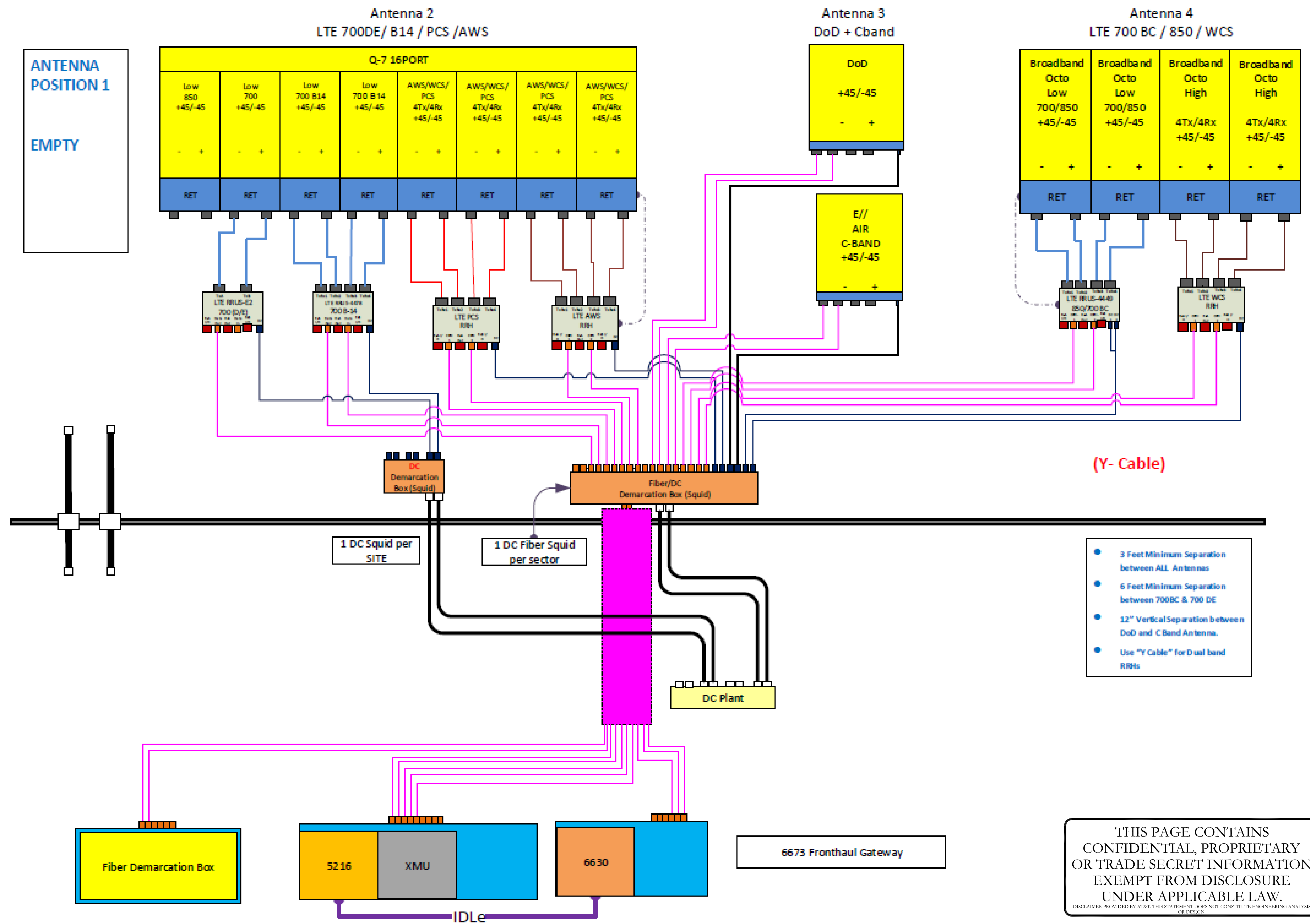
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UNLESS THEY ARE ACTING UNDER THE DIRECTION  
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TO ALTER THIS DOCUMENT.

SHEET NUMBER:

G-2

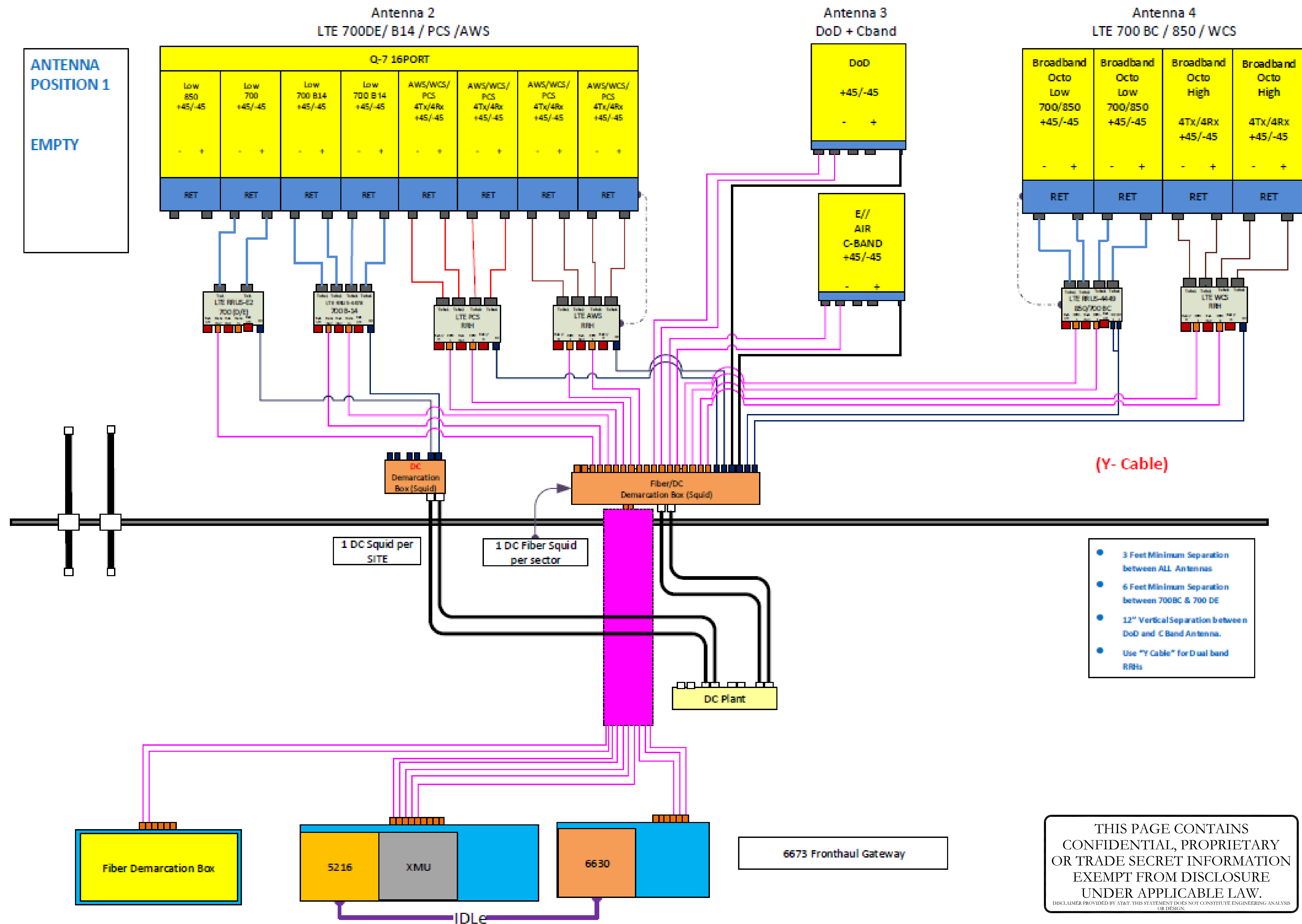
REVISION:

1

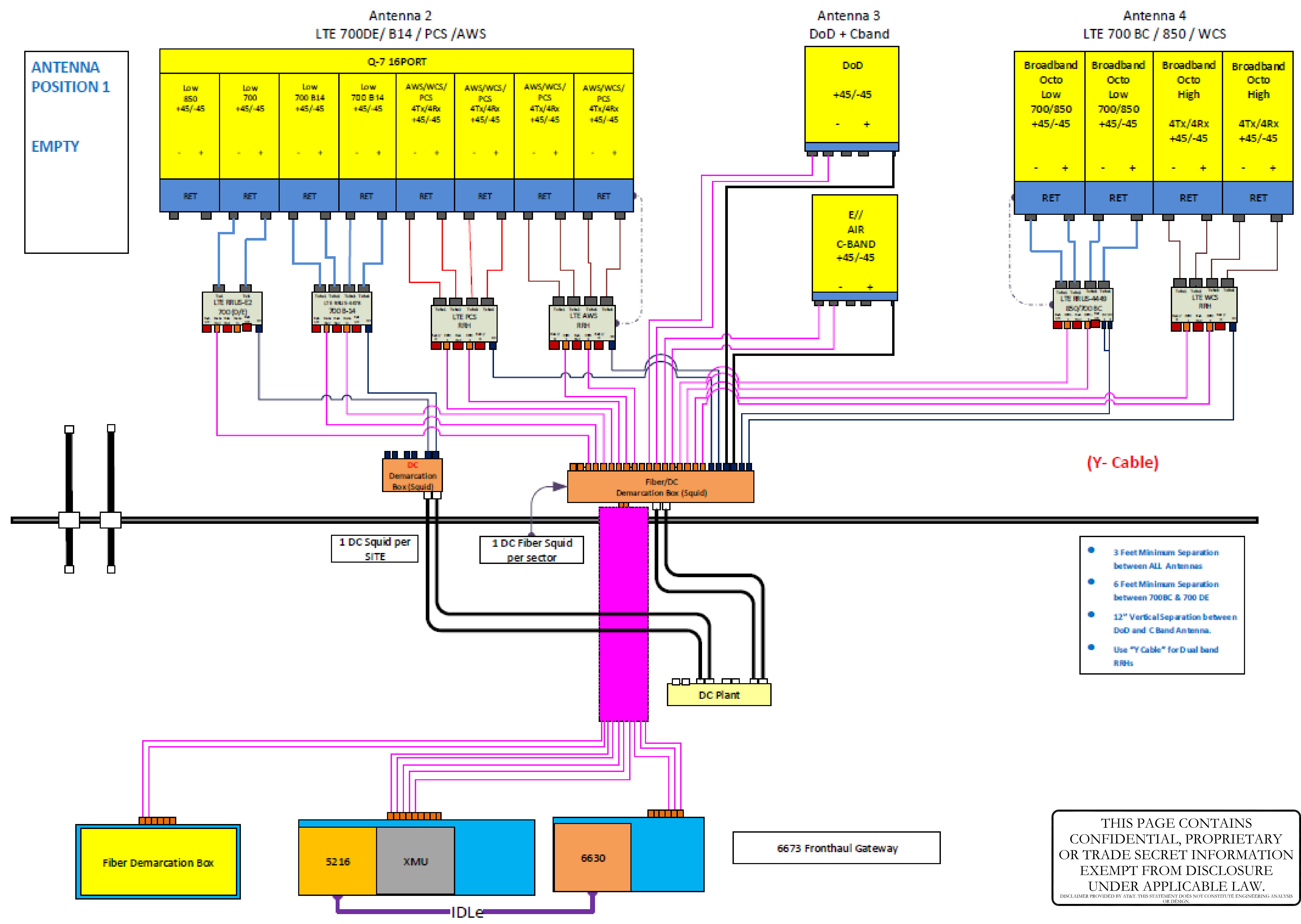


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September 20, 2021



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

**Subject:** **Mount Analysis**

**Carrier Designation:** **AT&T Mobility Reconfiguration**  
**Client Site Number:** CTL05379  
**Client Site Name:** CT New Britain 3 CAC 803175  
**FA Location Code:** 10091781

**Crown Castle Designation:** **Crown Castle BU Number:** 803175  
**Crown Castle Site Name:** CT New Britain 3 CAC 803175  
**Crown Castle JDE Job Number:** 649376  
**Crown Castle Order Number:** 556525 Rev. 1

**Engineering Firm Designation:** **TEP Project Number:** 25666.598873

**Site Data:** **167 Cocomo, New Britain, Hartford County, CT 06051**  
**Latitude 41° 41' 11.80", Longitude -72° 45' 27.80"**

**Structure Information:** **Tower Height & Type:** 188.0± ft Monopole  
**Mount Elevation:** 189.0 ft  
**Mount Width & Type:** 14.0 ft Platform w/ Support Rail

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

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

**Platform w/ Support Rail Mount**

**Sufficient Capacity**

The analysis has been performed in accordance with the 2018 International Building Code based upon an ultimate 3-second gust wind speed of 118 mph. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Danny Murillo / WHW

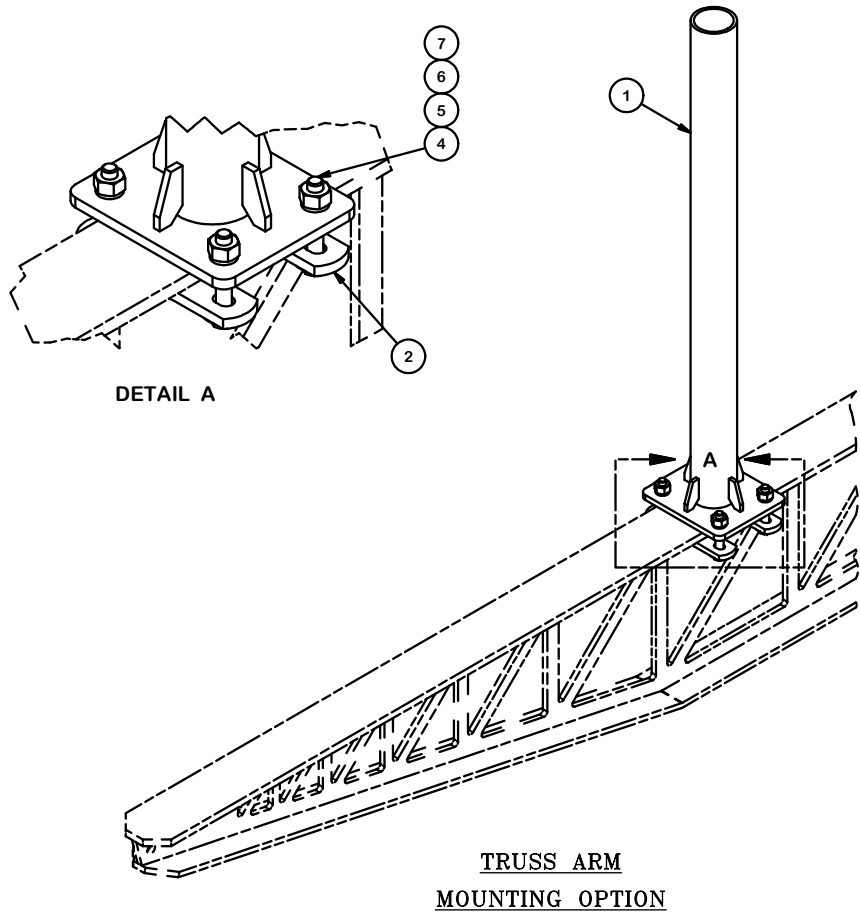
Respectfully submitted by:

Aaron T. Rucker, P.E.  
Structural Division Manager  
919-661-6351  
[arucker@tepgroup.net](mailto:arucker@tepgroup.net)

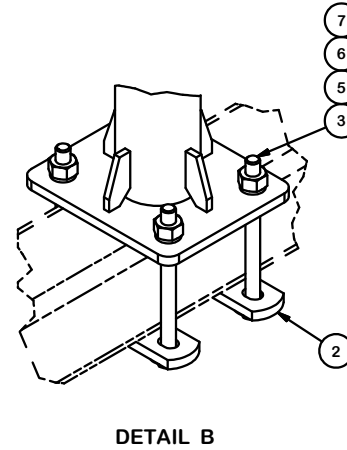


Electronic Copy

09/20/2021



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-SAMAST-3	3' STANDOFF ARM MAST WELDMENT		23.19	23.19
2	2	X-115765	5" V-CLAMP	7 1/16 in	1.03	2.05
3	4	G1206	1/2" x 6" HDG HEX BOLT GR5 FULL THREAD	2 in	0.38	1.53
4	4	G1203	1/2" x 3" HDG HEX BOLT GR5 FULL THREAD	3 in	0.22	0.87
5	4	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	0.14
6	4	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.06
7	4	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.29
					TOTAL WT. #	28.11



**TOLERANCE NOTES**

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:  
 SAWED, SHEARED AND GAS CUT EDGES ( $\pm 0.030"$ )  
 DRILLED AND GAS CUT HOLES ( $\pm 0.030"$ ) - NO CONING OF HOLES  
 LASER CUT EDGES AND HOLES ( $\pm 0.010"$ ) - NO CONING OF HOLES  
 BENDS AND ANGLES ARE  $\pm 1/2$  DEGREE  
 ALL OTHER MACHINING ( $\pm 0.030"$ )  
 ALL OTHER ASSEMBLY ( $\pm 0.060"$ )

PROPRIETARY NOTE:  
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DESCRIPTION		
3' STANDOFF ARM MAST		

CPD NO.	DRAWN BY	ENG. APPROVAL
	CEK 6/19/2019	
CLASS	SUB	DRAWING USAGE
81	02	CUSTOMER
		CHECKED BY
		BMC 6/19/2019

**SITE PRO 1**  
 A valmont COMPANY

Locations:  
 New York, NY  
 Atlanta, GA  
 Los Angeles, CA  
 Plymouth, IN  
 Salem, OR  
 Dallas, TX  
 Tampa, FL

Engineering Support Team:  
 1-888-753-7446

PART NO.	SAMAST-3	PAGE
DWG. NO.	SAMAST-3	1 OF 1

# Exhibit D

## Structural Analysis Report

Date: **October 1, 2021**



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

**Subject: Structural Analysis Report**

**Carrier Designation:** **AT&T Mobility Co-Locate**  
**Site Number:** CTL05379  
**Site Name:** CT New Britain 3 CAC 803175  
**FA Number:** 10091781

**Crown Castle Designation:** **BU Number:** 803175  
**Site Name:** CT New Britain 3 CAC 803175  
**JDE Job Number:** 649376  
**Work Order Number:** 2018715  
**Order Number:** 556525 Rev. 1

**Engineering Firm Designation:** **TEP Project Number:** 25666.605831

**Site Data:** **167 Cocomo, New Britain, Hartford County, CT 06051**  
**Latitude 41° 41' 11.80", Longitude -72° 45' 27.80"**  
**188 Foot - Monopole Tower**

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

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

LC7: Proposed Equipment Configuration

**Sufficient Capacity - 90.8%**

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

Structural analysis prepared by: Gautam Sopal, E.I. / DEN

Respectfully submitted by:

Aaron T. Rucker, P.E.



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10/01/2021

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Table 2 - Other Considered Equipment

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3.2) Assumptions

### 4) ANALYSIS RESULTS

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Table 5 - Tower Component Stresses vs. Capacity

4.1) Recommendations

### 5) APPENDIX A

tnxTower Output

### 6) APPENDIX B

Base Level Drawing

### 7) APPENDIX C

Additional Calculations

## 1) INTRODUCTION

This tower is a 188-ft monopole tower designed by Paul J. Ford and Company.

## 2) ANALYSIS CRITERIA

<b>TIA-222 Revision:</b>	TIA-222-H
<b>Risk Category:</b>	II
<b>Wind Speed:</b>	118 mph
<b>Exposure Category:</b>	C
<b>Topographic Factor:</b>	1.0
<b>Ice Thickness:</b>	1.5 in
<b>Wind Speed with Ice:</b>	50 mph
<b>Service Wind Speed:</b>	60 mph

**Table 1 - Proposed Equipment Configuration**

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
189.0	190.0	3	Ericsson	AIR 6419 B77G w/ Mount Pipe	3	7/8
		2	CCI Antennas	DMP65R-BU6D w/ Mount Pipe		
		1	CCI Antennas	DMP65R-BU4D w/ Mount Pipe		
		1	Quintel Technology	QD4616-7 w/ Mount Pipe		
		2	Quintel Technology	QD6616-7 w/ Mount Pipe		
		3	Ericsson	AIR 6449 N77 w/ Mount Pipe		
		3	Raycap	DC9-48-60-24-8C-EV		
		3	Ericsson	RRUS 4478 B14		
		3	Ericsson	RRUS 4449 B5/B12		
	3	Ericsson	RRUS 4415 B25			
	189.0	3	Ericsson	RRUS 32 B30	3	13/16
		3	Ericsson	RRUS 32 B66		
		1	Tower Mounts	Platform Mount [LP 1201-1_KCKR-HR-1]		

**Table 2 - Other Considered Equipment**

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
173.0	173.0	3	JMA Wireless	MX08FRO665-21 w/ Mount Pipe	1	1-3/4
		3	Fujitsu	TA08025-B604		
		3	Fujitsu	TA08025-B605		
		1	Raycap	RDIDC-9181-PF-48		
		1	Tower Mounts	Commscope MC-PK8-DSH		



Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
162.0	162.0	1	Tower Mounts	Platform Mount [LP 602-1_KCKR]	10	1-5/8
	161.0	3	Ericsson	AIR 6454 B41 w/ Mount Pipe		
		3	Ericsson	AIR 3246 B66 w/ Mount Pipe		
		3	RFS Celwave	APXVAARR24_43-U-NA20 w/ Mount Pipe		
		3	Ericsson	AIR -32 B2A/B66AA w/ Mount Pipe		
		3	Ericsson	RADIO 4449 B12/B71		
		3	Ericsson	RRUS 4415 B25		
146.0	149.0	3	Samsung Telecom.	RFV01U-D2A	8	1-5/8
		3	Samsung Telecom.	RFV01U-D1A		
	147.0	3	Samsung Telecom.	MT6407-77A w/ Mount Pipe		
	146.0	1	Tower Mounts	Platform Mount [LP 602-1_KCKR]		
	145.0	6	Andrew	SBNHH-1D65B w/ Mount Pipe		
		3	Amphenol	BXA-80063-6BF-EDIN-4 w/ Mount Pipe		
		1	Raycap	RHSDC-3315-PF-48		
	143.0	3	Samsung Telecom.	CBRS w/ Mount Pipe		

### 3) ANALYSIS PROCEDURE

**Table 3 - Documents Provided**

Document	Reference	Source
Geotechnical Report	679661	CCISites
Tower Foundation Drawings	679660	CCISites
Foundation Mapping Report	679660	CCISites
Tower Manufacturer Drawings	679659	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) The tower and structures were maintained in accordance with the TIA-222 Standard.
- 2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2, and the referenced drawings.

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

### 4) ANALYSIS RESULTS

**Table 4 - Section Capacity (Summary)**

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (k)	$\phi P_{allow}$ (k)	% Capacity	Pass / Fail	
L1	188 - 137	Pole	TP32.711x22x0.25	1	-19.17	1538.67	67.5	Pass	
L2	137 - 90.25	Pole	TP42.03x31.3184x0.3125	2	-29.17	2474.49	90.8	Pass	
L3	90.25 - 44.5	Pole	TP51.014x40.3023x0.375	3	-42.63	3602.47	88.5	Pass	
L4	44.5 - 0	Pole	TP59.61x48.8988x0.5	4	-65.22	5762.13	68.6	Pass	
							Summary		
							Pole (L2)	90.8	Pass
							<b>RATING =</b>	<b>90.8</b>	<b>Pass</b>

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

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1,2	Anchor Rods	-	77.7	Pass
1,2	Base Plate	-	73.6	Pass
1,2	Base Foundation Structural	-	56.1	Pass
1,2	Base Foundation Soil Interaction	-	90.2	Pass

<b>Structure Rating (max from all components) =</b>	<b>90.8%</b>
---	--------------

Notes:

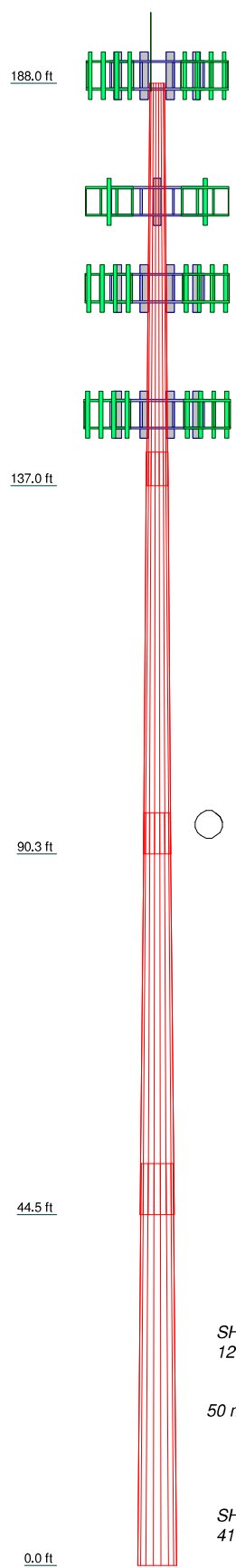
- 1) See additional documentation in "Appendix C - Additional Calculations" for calculations supporting the % capacity listed.
- 2) Rating per TIA-222-H Section 15.5

### 4.1) Recommendations

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

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

Section	1	2	3	4	
Length (ft)	51.00	51.00	51.00	51.00	
Number of Sides	18	18	18	18	
Thickness (in)	0.2500	0.3125	0.3750	0.5000	
Socket Length (ft)	4.25	5.25	6.50		
Top Dia (in)	22.0000	31.3184	40.3023	48.8988	
Bot Dia (in)	32.7110	42.0300	51.0140	59.6100	
Grade		A607-65			
Weight (K)	3.7	6.3	9.4	14.8	34.1



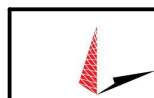
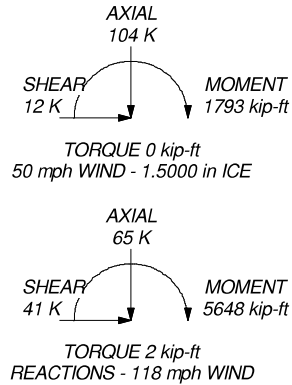
### MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A607-65	65 ksi	80 ksi			

### TOWER DESIGN NOTES

1. Tower is located in Hartford County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 118 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 90.8%

ALL REACTIONS  
ARE FACTORED



Tower Engineering Professionals

**Tower Engineering Professionals, Inc.**

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

Job: **CT New Britain 3 CAC 803175 (BU 803175)**

Project: **TEP No. 25666.605831**

Client: **Crown Castle**

Drawn by: **tmlester**

App'd:

Code: **TIA-222-H**

Date: **10/01/21**

Scale: **NTS**

Path:

C:\Users\lmlester\Desktop\CT New Britain 3 CAC 803175\803175\_201815\_LC7.dwg

Dwg No.: **E-1**

<b>tnxTower</b>  <b>Tower Engineering Professionals, Inc.</b> 326 Tryon Road Raleigh, NC 27603 Phone: (919) 661-6351 FAX: (919) 661-6350	<b>Job</b> CT New Britain 3 CAC 803175 (BU 803175)	<b>Page</b> 1 of 20
	<b>Project</b> TEP No. 25666.605831	<b>Date</b> 14:33:13 10/01/21
	<b>Client</b> Crown Castle	<b>Designed by</b> tmlester

## Tower Input Data

The tower is a monopole.

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

The following design criteria apply:

Tower is located in Hartford County, Connecticut.

Tower base elevation above sea level: 88.00 ft.

Basic wind speed of 118 mph.

Risk Category II.

Exposure Category C.

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

Topographic Category: 1.

Crest Height: 0.00 ft.

Nominal ice thickness of 1.5000 in.

Ice thickness is considered to increase with height.

Ice density of 56 pcf.

A wind speed of 50 mph is used in combination with ice.

Temperature drop of 50 °F.

Deflections calculated using a wind speed of 60 mph.

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

Pressures are calculated at each section.

Stress ratio used in pole design is 1.

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

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

Maximum demand-capacity ratio is: 1.05.

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

## Options

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

<b>tnxTower</b>  <b>Tower Engineering Professionals, Inc.</b> 326 Tryon Road Raleigh, NC 27603 Phone: (919) 661-6351 FAX: (919) 661-6350	<b>Job</b> CT New Britain 3 CAC 803175 (BU 803175)	<b>Page</b> 2 of 20
	<b>Project</b> TEP No. 25666.605831	<b>Date</b> 14:33:13 10/01/21
	<b>Client</b> Crown Castle	<b>Designed by</b> tmlester

### Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	188.00-137.00	51.00	4.25	18	22.0000	32.7110	0.2500	1.0000	A607-65 (65 ksi)
L2	137.00-90.25	51.00	5.25	18	31.3184	42.0300	0.3125	1.2500	A607-65 (65 ksi)
L3	90.25-44.50	51.00	6.50	18	40.3023	51.0140	0.3750	1.5000	A607-65 (65 ksi)
L4	44.50-0.00	51.00		18	48.8988	59.6100	0.5000	2.0000	A607-65 (65 ksi)

### Tapered Pole Properties

Section	Tip Dia. in	Area in <sup>2</sup>	I in <sup>4</sup>	r in	C in	I/C in <sup>3</sup>	J in <sup>4</sup>	I <sup>2</sup> /Q in <sup>2</sup>	w in	w/t
L1	22.3008	17.2586	1031.4832	7.7212	11.1760	92.2945	2064.3237	8.6310	3.4320	13.728
	33.1771	25.7578	3429.0204	11.5237	16.6172	206.3538	6862.5527	12.8813	5.3171	21.269
L2	32.6597	30.7540	3735.3228	11.0071	15.9098	234.7819	7475.5606	15.3799	4.9620	15.879
	42.6302	41.3785	9098.0688	14.8097	21.3512	426.1143	18208.1091	20.6932	6.8473	21.911
L3	41.9859	47.5235	9571.6471	14.1742	20.4736	467.5120	19155.8887	23.7663	6.4332	17.155
	51.7431	60.2731	19526.7966	17.9768	25.9151	753.4907	39079.2871	30.1423	8.3185	22.183
L4	50.9622	76.8089	22730.9630	17.1816	24.8406	915.0736	45491.8360	38.4117	7.7262	15.452
	60.4524	93.8076	41409.2395	20.9841	30.2819	1367.4593	82872.9664	46.9127	9.6114	19.223

Tower Elevation ft	Gusset Area (per face) ft <sup>2</sup>	Gusset Thickness in	Gusset Grade	Adjust. Factor A <sub>f</sub>	Adjust. Factor A <sub>r</sub>	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L1 188.00-137.00				1	1	1			
L2 137.00-90.25				1	1	1			
L3 90.25-44.50				1	1	1			
L4 44.50-0.00				1	1	1			

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

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
*** Safety Line 3/8	C	No	Surface Ar (CaAa)	188.00 - 0.00	1	1	0.500 - 0.500	0.3750		0.22
*** 3/8-in Detuner Wire	A	No	Surface Ar (CaAa)	133.00 - 0.00	1	1	0.000 - 0.000	0.3750		0.10
3/8-in Detuner Wire	B	No	Surface Ar (CaAa)	133.00 - 0.00	1	1	0.000 - 0.000	0.3750		0.10
3/8-in Detuner Wire	C	No	Surface Ar	133.00 -	1	1	0.000	0.3750		0.10

<b>tnxTower</b>  <b>Tower Engineering Professionals, Inc.</b> 326 Tryon Road Raleigh, NC 27603 Phone: (919) 661-6351 FAX: (919) 661-6350	<b>Job</b> CT New Britain 3 CAC 803175 (BU 803175)	<b>Page</b> 3 of 20
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Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
			(CaAa)	0.00			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 <sub>AA</sub> ft <sup>2</sup> /ft	Weight plf
<b>**189**</b>									
PWRT-606-S(7/8)	B	No	No	Inside Pole	188.00 - 0.00	3	No Ice	0.00	0.89
							1/2" Ice	0.00	0.89
							1" Ice	0.00	0.89
							2" Ice	0.00	0.89
PWRT-608-S(13/16)	B	No	No	Inside Pole	188.00 - 0.00	6	No Ice	0.00	0.62
							1/2" Ice	0.00	0.62
							1" Ice	0.00	0.62
							2" Ice	0.00	0.62
FB-L98B-235-XXX(3/8)	B	No	No	Inside Pole	188.00 - 0.00	3	No Ice	0.00	0.06
							1/2" Ice	0.00	0.06
							1" Ice	0.00	0.06
							2" Ice	0.00	0.06
<b>**173**</b>									
CU12PSM6P4XXX(1-3/4)	C	No	No	Inside Pole	173.00 - 0.00	1	No Ice	0.00	2.72
							1/2" Ice	0.00	2.72
							1" Ice	0.00	2.72
							2" Ice	0.00	2.72
<b>**162**</b>									
LCF158-50J(1-5/8)	C	No	No	Inside Pole	162.00 - 0.00	6	No Ice	0.00	0.92
							1/2" Ice	0.00	0.92
							1" Ice	0.00	0.92
							2" Ice	0.00	0.92
MLE Hybrid 9Power/18Fiber RL 2(1-5/8)	C	No	No	Inside Pole	162.00 - 0.00	1	No Ice	0.00	1.07
							1/2" Ice	0.00	1.07
							1" Ice	0.00	1.07
							2" Ice	0.00	1.07
HCS 6X12 4AWG(1-5/8)	C	No	No	Inside Pole	162.00 - 0.00	3	No Ice	0.00	2.40
							1/2" Ice	0.00	2.40
							1" Ice	0.00	2.40
							2" Ice	0.00	2.40
<b>**146**</b>									
HB158-1-08U8-S8J 18(1-5/8)	B	No	No	Inside Pole	146.00 - 0.00	2	No Ice	0.00	1.30
							1/2" Ice	0.00	1.30
							1" Ice	0.00	1.30
							2" Ice	0.00	1.30
LCF158-50J(1-5/8)	B	No	No	Inside Pole	146.00 - 0.00	6	No Ice	0.00	0.92
							1/2" Ice	0.00	0.92
							1" Ice	0.00	0.92
							2" Ice	0.00	0.92

### Feed Line/Linear Appurtenances Section Areas

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Tower Section	Tower Elevation ft	Face	$A_R$ ft <sup>2</sup>	$A_F$ ft <sup>2</sup>	$C_{AA}$ In Face ft <sup>2</sup>	$C_{AA}$ Out Face ft <sup>2</sup>	Weight K
L1	188.00-137.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.41
		C	0.000	0.000	1.912	0.000	0.45
L2	137.00-90.25	A	0.000	0.000	1.603	0.000	0.00
		B	0.000	0.000	1.603	0.000	0.69
		C	0.000	0.000	3.356	0.000	0.79
L3	90.25-44.50	A	0.000	0.000	1.716	0.000	0.00
		B	0.000	0.000	1.716	0.000	0.68
		C	0.000	0.000	3.431	0.000	0.77
L4	44.50-0.00	A	0.000	0.000	1.669	0.000	0.00
		B	0.000	0.000	1.669	0.000	0.66
		C	0.000	0.000	3.337	0.000	0.75

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

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	$A_R$ ft <sup>2</sup>	$A_F$ ft <sup>2</sup>	$C_{AA}$ In Face ft <sup>2</sup>	$C_{AA}$ Out Face ft <sup>2</sup>	Weight K
L1	188.00-137.00	A	1.494	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.41
		C		0.000	0.000	17.151	0.000	0.63
L2	137.00-90.25	A	1.442	0.000	0.000	14.377	0.000	0.15
		B		0.000	0.000	14.377	0.000	0.84
		C		0.000	0.000	30.099	0.000	1.09
L3	90.25-44.50	A	1.369	0.000	0.000	14.908	0.000	0.15
		B		0.000	0.000	14.908	0.000	0.82
		C		0.000	0.000	29.816	0.000	1.06
L4	44.50-0.00	A	1.227	0.000	0.000	13.849	0.000	0.13
		B		0.000	0.000	13.849	0.000	0.79
		C		0.000	0.000	27.698	0.000	1.01

### Feed Line Center of Pressure

Section	Elevation ft	$CP_x$ in	$CP_z$ in	$CP_x$ Ice in	$CP_z$ Ice in
L1	188.00-137.00	-0.2610	0.1507	-1.1846	0.6839
L2	137.00-90.25	-0.2505	0.1446	-1.0280	0.5935
L3	90.25-44.50	-0.2521	0.1455	-1.0494	0.6059
L4	44.50-0.00	-0.2538	0.1465	-1.0556	0.6095

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

### Shielding Factor $K_a$

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	$K_a$ No Ice	$K_a$ Ice
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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	$K_a$ No Ice	$K_a$ Ice
L1	26	Safety Line 3/8	137.00 - 188.00	1.0000	1.0000
L2	26	Safety Line 3/8	90.25 - 137.00	1.0000	1.0000
L2	28	3/8-in Detuner Wire	90.25 - 133.00	1.0000	1.0000
L2	29	3/8-in Detuner Wire	90.25 - 133.00	1.0000	1.0000
L2	30	3/8-in Detuner Wire	90.25 - 133.00	1.0000	1.0000
L3	26	Safety Line 3/8	44.50 - 90.25	1.0000	1.0000
L3	28	3/8-in Detuner Wire	44.50 - 90.25	1.0000	1.0000
L3	29	3/8-in Detuner Wire	44.50 - 90.25	1.0000	1.0000
L3	30	3/8-in Detuner Wire	44.50 - 90.25	1.0000	1.0000
L4	26	Safety Line 3/8	0.00 - 44.50	1.0000	1.0000
L4	28	3/8-in Detuner Wire	0.00 - 44.50	1.0000	1.0000
L4	29	3/8-in Detuner Wire	0.00 - 44.50	1.0000	1.0000
L4	30	3/8-in Detuner Wire	0.00 - 44.50	1.0000	1.0000

### Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	$C_{AA}$ Front ft <sup>2</sup>	$C_{AA}$ Side ft <sup>2</sup>	Weight K	
3/4" x 8-ft Lightning Rod	C	From Leg	0.00	0.0000	188.00	No Ice	0.60	0.60	0.01
			0.00			1/2" Ice	1.41	1.41	0.02
			4.00			1" Ice	2.25	2.25	0.03
						2" Ice	3.67	3.67	0.07
**189**									
AIR 6419 B77G w/ Mount Pipe	A	From Centroid-Face	4.00	20.0000	189.00	No Ice	4.32	2.49	0.08
			-7.00			1/2" Ice	4.74	2.84	0.11
			1.00			1" Ice	5.17	3.21	0.15
						2" Ice	6.09	4.00	0.24
AIR 6419 B77G w/ Mount Pipe	B	From Centroid-Face	4.00	10.0000	189.00	No Ice	4.32	2.49	0.08
			-7.00			1/2" Ice	4.74	2.84	0.11
			1.00			1" Ice	5.17	3.21	0.15
						2" Ice	6.09	4.00	0.24
AIR 6419 B77G w/ Mount Pipe	C	From Centroid-Face	4.00	20.0000	189.00	No Ice	4.32	2.49	0.08
			-7.00			1/2" Ice	4.74	2.84	0.11
			1.00			1" Ice	5.17	3.21	0.15
						2" Ice	6.09	4.00	0.24
DMP65R-BU6D w/ Mount Pipe	A	From Centroid-Face	4.00	20.0000	189.00	No Ice	11.96	5.97	0.11
			2.50			1/2" Ice	12.70	6.63	0.20
			1.00			1" Ice	13.46	7.30	0.30
						2" Ice	15.02	8.69	0.53
DMP65R-BU6D w/ Mount Pipe	B	From Centroid-Face	4.00	10.0000	189.00	No Ice	11.96	5.97	0.11
			-2.50			1/2" Ice	12.70	6.63	0.20
			1.00			1" Ice	13.46	7.30	0.30
						2" Ice	15.02	8.69	0.53
DMP65R-BU4D w/ Mount Pipe	C	From Centroid-Face	4.00	20.0000	189.00	No Ice	7.53	3.79	0.09
			2.50			1/2" Ice	8.04	4.23	0.16
			1.00			1" Ice	8.57	4.68	0.22
						2" Ice	9.68	5.63	0.39
QD4616-7 w/ Mount Pipe	A	From Centroid-Face	4.00	20.0000	189.00	No Ice	9.68	5.81	0.13
			-2.50			1/2" Ice	10.16	6.51	0.20

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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	CAAA Front	CAAA Side	Weight
			Horz	Vert					
			ft	ft	°	ft	ft <sup>2</sup>	ft <sup>2</sup>	K
		ce	1.00				1" Ice 10.64	7.17	0.29
							2" Ice 11.63	8.56	0.48
QD6616-7 w/ Mount Pipe	B	From Centroid-Face	4.00		10.0000	189.00	No Ice 13.82	8.46	0.16
			2.50				1/2" Ice 14.43	9.66	0.26
		ce	1.00				1" Ice 15.00	10.55	0.37
							2" Ice 16.18	12.35	0.62
QD6616-7 w/ Mount Pipe	C	From Centroid-Face	4.00		20.0000	189.00	No Ice 13.82	8.46	0.16
			-2.50				1/2" Ice 14.43	9.66	0.26
		ce	1.00				1" Ice 15.00	10.55	0.37
							2" Ice 16.18	12.35	0.62
AIR 6449 N77 w/ Mount Pipe	A	From Centroid-Face	4.00		20.0000	189.00	No Ice 3.65	2.72	0.11
			7.00				1/2" Ice 3.99	3.03	0.15
		ce	1.00				1" Ice 4.35	3.36	0.20
							2" Ice 5.11	4.05	0.31
AIR 6449 N77 w/ Mount Pipe	B	From Centroid-Face	4.00		10.0000	189.00	No Ice 3.65	2.72	0.11
			7.00				1/2" Ice 3.99	3.03	0.15
		ce	1.00				1" Ice 4.35	3.36	0.20
							2" Ice 5.11	4.05	0.31
AIR 6449 N77 w/ Mount Pipe	C	From Centroid-Face	4.00		20.0000	189.00	No Ice 3.65	2.72	0.11
			7.00				1/2" Ice 3.99	3.03	0.15
		ce	1.00				1" Ice 4.35	3.36	0.20
							2" Ice 5.11	4.05	0.31
DC9-48-60-24-8C-EV	A	From Centroid-Face	4.00		20.0000	189.00	No Ice 1.14	1.14	0.03
			7.00				1/2" Ice 1.79	1.79	0.05
		ce	1.00				1" Ice 2.00	2.00	0.07
							2" Ice 2.45	2.45	0.13
DC9-48-60-24-8C-EV	B	From Centroid-Face	4.00		10.0000	189.00	No Ice 1.14	1.14	0.03
			-7.00				1/2" Ice 1.79	1.79	0.05
		ce	1.00				1" Ice 2.00	2.00	0.07
							2" Ice 2.45	2.45	0.13
DC9-48-60-24-8C-EV	C	From Centroid-Face	4.00		20.0000	189.00	No Ice 1.14	1.14	0.03
			7.00				1/2" Ice 1.79	1.79	0.05
		ce	1.00				1" Ice 2.00	2.00	0.07
							2" Ice 2.45	2.45	0.13
RRUS 32 B30	A	From Centroid-Face	4.00		20.0000	189.00	No Ice 2.73	1.67	0.05
			-2.50				1/2" Ice 2.95	1.86	0.07
		ce	0.00				1" Ice 3.18	2.05	0.10
							2" Ice 3.66	2.46	0.16
RRUS 32 B30	B	From Centroid-Face	4.00		10.0000	189.00	No Ice 2.73	1.67	0.05
			-2.50				1/2" Ice 2.95	1.86	0.07
		ce	0.00				1" Ice 3.18	2.05	0.10
							2" Ice 3.66	2.46	0.16
RRUS 32 B30	C	From Centroid-Face	4.00		20.0000	189.00	No Ice 2.73	1.67	0.05
			2.50				1/2" Ice 2.95	1.86	0.07
		ce	0.00				1" Ice 3.18	2.05	0.10
							2" Ice 3.66	2.46	0.16
RRUS 4478 B14	A	From Centroid-Face	4.00		20.0000	189.00	No Ice 1.84	1.06	0.06
			-2.50				1/2" Ice 2.01	1.20	0.08
		ce	1.00				1" Ice 2.19	1.34	0.09
							2" Ice 2.57	1.66	0.14
RRUS 4478 B14	B	From Centroid-Face	4.00		10.0000	189.00	No Ice 1.84	1.06	0.06
			-2.50				1/2" Ice 2.01	1.20	0.08
		ce	1.00				1" Ice 2.19	1.34	0.09
							2" Ice 2.57	1.66	0.14
RRUS 4478 B14	C	From Centroid-Face	4.00		20.0000	189.00	No Ice 1.84	1.06	0.06
			-2.50				1/2" Ice 2.01	1.20	0.08
		ce	1.00				1" Ice 2.19	1.34	0.09

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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	CAAA		Weight
			Horz	Vert			Front	Side	
			ft	ft	°	ft	ft <sup>2</sup>	ft <sup>2</sup>	K
RRUS 4449 B5/B12	A	From Centroid-Face	4.00	20.0000	189.00	2" Ice	2.57	1.66	0.14
			2.50	10.0000		No Ice	1.97	1.41	0.07
			1.00	20.0000		1/2" Ice	2.14	1.56	0.09
				10.0000		1" Ice	2.33	1.73	0.11
RRUS 4449 B5/B12	B	From Centroid-Face	4.00	10.0000	189.00	2" Ice	2.72	2.07	0.16
			2.50	20.0000		No Ice	1.97	1.41	0.07
			1.00	10.0000		1/2" Ice	2.14	1.56	0.09
				20.0000		1" Ice	2.33	1.73	0.11
RRUS 4449 B5/B12	C	From Centroid-Face	4.00	20.0000	189.00	2" Ice	2.72	2.07	0.16
			2.50	10.0000		No Ice	1.97	1.41	0.07
			1.00	20.0000		1/2" Ice	2.14	1.56	0.09
				10.0000		1" Ice	2.33	1.73	0.11
RRUS 32 B66	A	From Centroid-Face	4.00	20.0000	189.00	2" Ice	2.72	2.07	0.16
			2.50	10.0000		No Ice	2.74	1.67	0.05
			0.00	20.0000		1/2" Ice	2.96	1.86	0.07
				10.0000		1" Ice	3.19	2.05	0.10
RRUS 32 B66	B	From Centroid-Face	4.00	10.0000	189.00	2" Ice	3.68	2.46	0.16
			2.50	20.0000		No Ice	2.74	1.67	0.05
			0.00	10.0000		1/2" Ice	2.96	1.86	0.07
				20.0000		1" Ice	3.19	2.05	0.10
RRUS 32 B66	C	From Centroid-Face	4.00	20.0000	189.00	2" Ice	3.68	2.46	0.16
			-2.50	10.0000		No Ice	2.74	1.67	0.05
			0.00	20.0000		1/2" Ice	2.96	1.86	0.07
				10.0000		1" Ice	3.19	2.05	0.10
RRUS 4415 B25	A	From Centroid-Face	4.00	20.0000	189.00	2" Ice	3.68	2.46	0.16
			-7.00	10.0000		No Ice	1.64	0.68	0.04
			1.00	20.0000		1/2" Ice	1.80	0.79	0.06
				10.0000		1" Ice	1.97	0.91	0.07
RRUS 4415 B25	B	From Centroid-Face	4.00	10.0000	189.00	2" Ice	2.33	1.18	0.11
			7.00	20.0000		No Ice	1.64	0.68	0.04
			1.00	10.0000		1/2" Ice	1.80	0.79	0.06
				20.0000		1" Ice	1.97	0.91	0.07
RRUS 4415 B25	C	From Centroid-Face	4.00	20.0000	189.00	2" Ice	2.33	1.18	0.11
			-7.00	10.0000		No Ice	1.64	0.68	0.04
			1.00	20.0000		1/2" Ice	1.80	0.79	0.06
				10.0000		1" Ice	1.97	0.91	0.07
2.4" Dia. x 6-ft	A	From Centroid-Leg	2.00	0.0000	189.00	2" Ice	2.33	1.18	0.11
			0.00	10.0000		No Ice	1.43	1.43	0.02
			0.00	20.0000		1/2" Ice	1.92	1.92	0.03
				10.0000		1" Ice	2.29	2.29	0.05
2.4" Dia. x 6-ft	B	From Centroid-Leg	2.00	0.0000	189.00	2" Ice	3.06	3.06	0.09
			0.00	10.0000		No Ice	1.43	1.43	0.02
			0.00	20.0000		1/2" Ice	1.92	1.92	0.03
				10.0000		1" Ice	2.29	2.29	0.05
2.4" Dia. x 6-ft	C	From Centroid-Leg	2.00	0.0000	189.00	2" Ice	3.06	3.06	0.09
			0.00	10.0000		No Ice	1.43	1.43	0.02
			0.00	20.0000		1/2" Ice	1.92	1.92	0.03
				10.0000		1" Ice	2.29	2.29	0.05
Platform Mount [LP 1201-1_KCKR-HR-1]	C	None		0.0000	189.00	2" Ice	3.06	3.06	0.09
				10.0000		No Ice	37.61	37.61	2.63
				20.0000		1/2" Ice	45.62	45.62	3.48
				10.0000		1" Ice	53.59	53.59	4.46
***173*** MX08FRO665-21 w/ Mount Pipe	A	From Centroid-Leg	4.00	0.0000	173.00	2" Ice	69.65	69.65	6.85
			0.00	10.0000		No Ice	8.01	4.23	0.11
			0.00	20.0000		1/2" Ice	8.52	4.69	0.19
	10.0000	1" Ice	9.04	5.16	0.29				

<b>tnxTower</b>  <b>Tower Engineering Professionals, Inc.</b> 326 Tryon Road Raleigh, NC 27603 Phone: (919) 661-6351 FAX: (919) 661-6350	<b>Job</b>	CT New Britain 3 CAC 803175 (BU 803175)	<b>Page</b>	8 of 20
	<b>Project</b>	TEP No. 25666.605831	<b>Date</b>	14:33:13 10/01/21
	<b>Client</b>	Crown Castle	<b>Designed by</b>	tmlster

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C <sub>AA</sub> Front	C <sub>AA</sub> Side	Weight
			Horz	Lateral					
			ft	ft	°	ft	ft <sup>2</sup>	ft <sup>2</sup>	K
MX08FRO665-21 w/ Mount Pipe	B	From Centroid-Le g	4.00	-10.0000	173.00	2" Ice	10.11	6.12	0.52
			0.00	0.00		No Ice	8.01	4.23	0.11
			0.00	0.00		1/2" Ice	8.52	4.69	0.19
			0.00	0.00		1" Ice	9.04	5.16	0.29
MX08FRO665-21 w/ Mount Pipe	C	From Centroid-Le g	4.00	0.0000	173.00	2" Ice	10.11	6.12	0.52
			0.00	0.00		No Ice	8.01	4.23	0.11
			0.00	0.00		1/2" Ice	8.52	4.69	0.19
			0.00	0.00		1" Ice	9.04	5.16	0.29
TA08025-B604	A	From Centroid-Le g	4.00	0.0000	173.00	2" Ice	10.11	6.12	0.52
			0.00	0.00		No Ice	1.96	0.98	0.06
			0.00	0.00		1/2" Ice	2.14	1.11	0.08
			0.00	0.00		1" Ice	2.32	1.25	0.10
TA08025-B604	B	From Centroid-Le g	4.00	-10.0000	173.00	2" Ice	2.71	1.55	0.15
			0.00	0.00		No Ice	1.96	0.98	0.06
			0.00	0.00		1/2" Ice	2.14	1.11	0.08
			0.00	0.00		1" Ice	2.32	1.25	0.10
TA08025-B604	C	From Centroid-Le g	4.00	0.0000	173.00	2" Ice	2.71	1.55	0.15
			0.00	0.00		No Ice	1.96	0.98	0.06
			0.00	0.00		1/2" Ice	2.14	1.11	0.08
			0.00	0.00		1" Ice	2.32	1.25	0.10
TA08025-B605	A	From Centroid-Le g	4.00	0.0000	173.00	2" Ice	2.71	1.55	0.15
			0.00	0.00		No Ice	1.96	1.13	0.08
			0.00	0.00		1/2" Ice	2.14	1.27	0.09
			0.00	0.00		1" Ice	2.32	1.41	0.11
TA08025-B605	B	From Centroid-Le g	4.00	-10.0000	173.00	2" Ice	2.71	1.72	0.16
			0.00	0.00		No Ice	1.96	1.13	0.08
			0.00	0.00		1/2" Ice	2.14	1.27	0.09
			0.00	0.00		1" Ice	2.32	1.41	0.11
TA08025-B605	C	From Centroid-Le g	4.00	0.0000	173.00	2" Ice	2.71	1.72	0.16
			0.00	0.00		No Ice	1.96	1.13	0.08
			0.00	0.00		1/2" Ice	2.14	1.27	0.09
			0.00	0.00		1" Ice	2.32	1.41	0.11
RDIDC-9181-PF-48	A	From Centroid-Le g	4.00	0.0000	173.00	2" Ice	2.71	1.72	0.16
			0.00	0.00		No Ice	2.01	1.17	0.02
			0.00	0.00		1/2" Ice	2.19	1.31	0.04
			0.00	0.00		1" Ice	2.37	1.46	0.06
(2) 2.4" Dia x 8-ft Mount Pipe	A	From Centroid-Le g	4.00	0.0000	173.00	2" Ice	2.76	1.78	0.11
			0.00	0.00		No Ice	1.90	1.90	0.03
			0.00	0.00		1/2" Ice	2.73	2.73	0.04
			0.00	0.00		1" Ice	3.40	3.40	0.06
(2) 2.4" Dia x 8-ft Mount Pipe	B	From Centroid-Le g	4.00	0.0000	173.00	2" Ice	4.40	4.40	0.12
			0.00	0.00		No Ice	1.90	1.90	0.03
			0.00	0.00		1/2" Ice	2.73	2.73	0.04
			0.00	0.00		1" Ice	3.40	3.40	0.06
(2) 2.4" Dia x 8-ft Mount Pipe	C	From Centroid-Le g	4.00	0.0000	173.00	2" Ice	4.40	4.40	0.12
			0.00	0.00		No Ice	1.90	1.90	0.03
			0.00	0.00		1/2" Ice	2.73	2.73	0.04
			0.00	0.00		1" Ice	3.40	3.40	0.06
Commscope MC-PK8-DSH	C	None		0.0000	173.00	2" Ice	4.40	4.40	0.12
				0.0000		No Ice	34.24	34.24	1.75
				0.0000		1/2" Ice	62.95	62.95	2.10
				0.0000		1" Ice	91.66	91.66	2.45
**162** AIR 6454 B41 w/ Mount Pipe	A	From Centroid-Fa ce	4.00	0.0000	162.00	2" Ice	149.08	149.08	3.15
			-6.00	-1.00		No Ice	6.88	2.80	0.14
			-1.00	-1.00		1/2" Ice	7.39	3.21	0.18
						1" Ice	7.91	3.62	0.24

<b>tnxTower</b>  <b>Tower Engineering Professionals, Inc.</b> 326 Tryon Road Raleigh, NC 27603 Phone: (919) 661-6351 FAX: (919) 661-6350	<b>Job</b>	CT New Britain 3 CAC 803175 (BU 803175)	<b>Page</b>	9 of 20
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	<b>Client</b>	Crown Castle	<b>Designed by</b>	tmlster

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	CAAA		Weight	
			Horz	Vert			Front	Side		
			ft	ft	°	ft	ft <sup>2</sup>	ft <sup>2</sup>	K	
AIR 6454 B41 w/ Mount Pipe	B	From Centroid-Face	4.00		-15.0000	162.00	2" Ice	9.01	4.51	0.37
			-6.00				No Ice	6.88	2.80	0.14
			-1.00				1/2" Ice	7.39	3.21	0.18
							1" Ice	7.91	3.62	0.24
AIR 6454 B41 w/ Mount Pipe	C	From Centroid-Face	4.00		-10.0000	162.00	2" Ice	9.01	4.51	0.37
			-6.00				No Ice	6.88	2.80	0.14
			-1.00				1/2" Ice	7.39	3.21	0.18
							1" Ice	7.91	3.62	0.24
AIR 3246 B66 w/ Mount Pipe	A	From Centroid-Face	4.00		0.0000	162.00	2" Ice	9.01	4.51	0.37
			-2.00				No Ice	7.31	5.46	0.20
			-1.00				1/2" Ice	7.89	6.00	0.27
							1" Ice	8.48	6.57	0.34
AIR 3246 B66 w/ Mount Pipe	B	From Centroid-Face	4.00		-15.0000	162.00	2" Ice	9.72	7.74	0.52
			-2.00				No Ice	7.31	5.46	0.20
			-1.00				1/2" Ice	7.89	6.00	0.27
							1" Ice	8.48	6.57	0.34
AIR 3246 B66 w/ Mount Pipe	C	From Centroid-Face	4.00		-10.0000	162.00	2" Ice	9.72	7.74	0.52
			-2.00				No Ice	7.31	5.46	0.20
			-1.00				1/2" Ice	7.89	6.00	0.27
							1" Ice	8.48	6.57	0.34
APXVAARR24_43-U-NA20 w/ Mount Pipe	A	From Centroid-Face	4.00		0.0000	162.00	2" Ice	9.72	7.74	0.52
			2.00				No Ice	14.69	6.87	0.19
			-1.00				1/2" Ice	15.46	7.55	0.31
							1" Ice	16.23	8.25	0.46
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Centroid-Face	4.00		-15.0000	162.00	2" Ice	17.82	9.67	0.79
			2.00				No Ice	14.69	6.87	0.19
			-1.00				1/2" Ice	15.46	7.55	0.31
							1" Ice	16.23	8.25	0.46
APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Centroid-Face	4.00		-10.0000	162.00	2" Ice	17.82	9.67	0.79
			2.00				No Ice	14.69	6.87	0.19
			-1.00				1/2" Ice	15.46	7.55	0.31
							1" Ice	16.23	8.25	0.46
AIR -32 B2A/B66AA w/ Mount Pipe	A	From Centroid-Face	4.00		0.0000	162.00	2" Ice	17.82	9.67	0.79
			6.00				No Ice	3.76	3.15	0.19
			-1.00				1/2" Ice	4.12	3.49	0.25
							1" Ice	4.48	3.84	0.32
AIR -32 B2A/B66AA w/ Mount Pipe	B	From Centroid-Face	4.00		-15.0000	162.00	2" Ice	5.24	4.58	0.48
			6.00				No Ice	3.76	3.15	0.19
			-1.00				1/2" Ice	4.12	3.49	0.25
							1" Ice	4.48	3.84	0.32
AIR -32 B2A/B66AA w/ Mount Pipe	C	From Centroid-Face	4.00		-10.0000	162.00	2" Ice	5.24	4.58	0.48
			6.00				No Ice	3.76	3.15	0.19
			-1.00				1/2" Ice	4.12	3.49	0.25
							1" Ice	4.48	3.84	0.32
RADIO 4449 B12/B71	A	From Centroid-Face	4.00		0.0000	162.00	2" Ice	5.24	4.58	0.48
			-6.00				No Ice	1.64	1.15	0.08
			-1.00				1/2" Ice	1.80	1.29	0.09
							1" Ice	1.97	1.44	0.11
RADIO 4449 B12/B71	B	From Centroid-Face	4.00		-15.0000	162.00	2" Ice	2.33	1.75	0.16
			-6.00				No Ice	1.64	1.15	0.08
			-1.00				1/2" Ice	1.80	1.29	0.09
							1" Ice	1.97	1.44	0.11
RADIO 4449 B12/B71	C	From Centroid-Face	4.00		-10.0000	162.00	2" Ice	2.33	1.75	0.16
			-6.00				No Ice	1.64	1.15	0.08
			-1.00				1/2" Ice	1.80	1.29	0.09
							1" Ice	1.97	1.44	0.11
				2" Ice	2.33	1.75	0.16			

<b>tnxTower</b>  <b>Tower Engineering Professionals, Inc.</b> 326 Tryon Road Raleigh, NC 27603 Phone: (919) 661-6351 FAX: (919) 661-6350	<b>Job</b>	CT New Britain 3 CAC 803175 (BU 803175)	<b>Page</b>	10 of 20
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	<b>Client</b>	Crown Castle	<b>Designed by</b>	tmlster

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	CAAA Front	CAAA Side	Weight
			Horz	Lateral					
RRUS 4415 B25	A	From Centroid-Face	4.00	0.0000	162.00	No Ice	1.64	0.68	0.04
			6.00			1/2" Ice	1.80	0.79	0.06
			-1.00			1" Ice	1.97	0.91	0.07
						2" Ice	2.33	1.18	0.11
						No Ice	1.64	0.68	0.04
RRUS 4415 B25	B	From Centroid-Face	4.00	-15.0000	162.00	No Ice	1.64	0.68	0.04
			6.00			1/2" Ice	1.80	0.79	0.06
			-1.00			1" Ice	1.97	0.91	0.07
						2" Ice	2.33	1.18	0.11
						No Ice	1.64	0.68	0.04
RRUS 4415 B25	C	From Centroid-Face	4.00	-10.0000	162.00	No Ice	1.64	0.68	0.04
			6.00			1/2" Ice	1.80	0.79	0.06
			-1.00			1" Ice	1.97	0.91	0.07
						2" Ice	2.33	1.18	0.11
						No Ice	1.64	0.68	0.04
Platform Mount [LP 602-1_KCKR]	C	None		0.0000	162.00	No Ice	42.30	42.30	1.62
						1/2" Ice	49.04	49.04	2.38
						1" Ice	55.87	55.87	3.27
						2" Ice	69.85	69.85	5.40
**146**									
CBRS w/ Mount Pipe	A	From Centroid-Leg	4.00	30.0000	146.00	No Ice	1.45	0.99	0.03
			-6.00			1/2" Ice	1.67	1.18	0.05
			-3.00			1" Ice	1.90	1.39	0.07
						2" Ice	2.42	1.85	0.12
						No Ice	1.45	0.99	0.03
CBRS w/ Mount Pipe	B	From Centroid-Leg	4.00	30.0000	146.00	No Ice	1.45	0.99	0.03
			-6.00			1/2" Ice	1.67	1.18	0.05
			-3.00			1" Ice	1.90	1.39	0.07
						2" Ice	2.42	1.85	0.12
						No Ice	1.45	0.99	0.03
CBRS w/ Mount Pipe	C	From Centroid-Leg	4.00	30.0000	146.00	No Ice	1.45	0.99	0.03
			-6.00			1/2" Ice	1.67	1.18	0.05
			-3.00			1" Ice	1.90	1.39	0.07
						2" Ice	2.42	1.85	0.12
						No Ice	1.45	0.99	0.03
MT6407-77A w/ Mount Pipe	A	From Centroid-Leg	4.00	30.0000	146.00	No Ice	4.91	2.68	0.10
			-3.00			1/2" Ice	5.26	3.14	0.14
			1.00			1" Ice	5.61	3.62	0.18
						2" Ice	6.36	4.63	0.29
						No Ice	4.91	2.68	0.10
MT6407-77A w/ Mount Pipe	B	From Centroid-Leg	4.00	30.0000	146.00	No Ice	4.91	2.68	0.10
			-3.00			1/2" Ice	5.26	3.14	0.14
			1.00			1" Ice	5.61	3.62	0.18
						2" Ice	6.36	4.63	0.29
						No Ice	4.91	2.68	0.10
MT6407-77A w/ Mount Pipe	C	From Centroid-Leg	4.00	30.0000	146.00	No Ice	4.91	2.68	0.10
			-3.00			1/2" Ice	5.26	3.14	0.14
			1.00			1" Ice	5.61	3.62	0.18
						2" Ice	6.36	4.63	0.29
						No Ice	4.91	2.68	0.10
(2) SBNHH-1D65B w/ Mount Pipe	A	From Centroid-Leg	4.00	30.0000	146.00	No Ice	4.09	3.30	0.07
			1.50			1/2" Ice	4.49	3.68	0.13
			-1.00			1" Ice	4.89	4.07	0.20
						2" Ice	5.72	4.87	0.39
						No Ice	4.09	3.30	0.07
(2) SBNHH-1D65B w/ Mount Pipe	B	From Centroid-Leg	4.00	30.0000	146.00	No Ice	4.09	3.30	0.07
			1.50			1/2" Ice	4.49	3.68	0.13
			-1.00			1" Ice	4.89	4.07	0.20
						2" Ice	5.72	4.87	0.39
						No Ice	4.09	3.30	0.07
(2) SBNHH-1D65B w/ Mount Pipe	C	From Centroid-Leg	4.00	30.0000	146.00	No Ice	4.09	3.30	0.07
			1.50			1/2" Ice	4.49	3.68	0.13
			-1.00			1" Ice	4.89	4.07	0.20
						2" Ice	5.72	4.87	0.39
						No Ice	4.09	3.30	0.07
BXA-80063-6BF-EDIN-4 w/ Mount Pipe	A	From Centroid-Leg	4.00	30.0000	146.00	No Ice	7.50	5.63	0.04
			6.00			1/2" Ice	8.03	6.72	0.10
			-1.00			1" Ice	8.53	7.56	0.17
						2" Ice	9.56	9.29	0.33
						No Ice	7.50	5.63	0.04

<b>tnxTower</b>  <b>Tower Engineering Professionals, Inc.</b> 326 Tryon Road Raleigh, NC 27603 Phone: (919) 661-6351 FAX: (919) 661-6350	<b>Job</b>	CT New Britain 3 CAC 803175 (BU 803175)	<b>Page</b>	11 of 20
	<b>Project</b>	TEP No. 25666.605831	<b>Date</b>	14:33:13 10/01/21
	<b>Client</b>	Crown Castle	<b>Designed by</b>	tmlster

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	CAAA Front	CAAA Side	Weight
			Horz	Vert					
			ft	ft	°	ft	ft <sup>2</sup>	ft <sup>2</sup>	K
BXA-80063-6BF-EDIN-4 w/ Mount Pipe	B	From Centroid-Le g	4.00	30.0000	146.00	No Ice	7.50	5.63	0.04
			6.00			1/2" Ice	8.03	6.72	0.10
			-1.00			1" Ice	8.53	7.56	0.17
						2" Ice	9.56	9.29	0.33
BXA-80063-6BF-EDIN-4 w/ Mount Pipe	C	From Centroid-Le g	4.00	30.0000	146.00	No Ice	7.50	5.63	0.04
			6.00			1/2" Ice	8.03	6.72	0.10
			-1.00			1" Ice	8.53	7.56	0.17
						2" Ice	9.56	9.29	0.33
(2) RFV01U-D2A	A	From Centroid-Le g	4.00	30.0000	146.00	No Ice	1.88	1.01	0.07
			-6.00			1/2" Ice	2.05	1.14	0.09
			3.00			1" Ice	2.22	1.28	0.11
						2" Ice	2.60	1.59	0.15
RFV01U-D2A	B	From Centroid-Le g	4.00	30.0000	146.00	No Ice	1.88	1.01	0.07
			-6.00			1/2" Ice	2.05	1.14	0.09
			3.00			1" Ice	2.22	1.28	0.11
						2" Ice	2.60	1.59	0.15
RFV01U-D1A	B	From Centroid-Le g	4.00	30.0000	146.00	No Ice	1.88	1.25	0.08
			-6.00			1/2" Ice	2.05	1.39	0.10
			3.00			1" Ice	2.22	1.54	0.12
						2" Ice	2.60	1.86	0.18
(2) RFV01U-D1A	C	From Centroid-Le g	4.00	30.0000	146.00	No Ice	1.88	1.25	0.08
			-6.00			1/2" Ice	2.05	1.39	0.10
			3.00			1" Ice	2.22	1.54	0.12
						2" Ice	2.60	1.86	0.18
RHSDC-3315-PF-48	A	From Centroid-Le g	4.00	30.0000	146.00	No Ice	3.36	2.19	0.03
			0.00			1/2" Ice	3.60	2.39	0.06
			-1.00			1" Ice	3.84	2.61	0.09
						2" Ice	4.34	3.05	0.17
Platform Mount [LP 602-1_KCKR]	C	None		0.0000	146.00	No Ice	42.30	42.30	1.62
						1/2" Ice	49.04	49.04	2.38
						1" Ice	55.87	55.87	3.27
						2" Ice	69.85	69.85	5.40
**Detuner**									
Side Arm Mount [SO 701-3]	C	None		0.0000	133.00	No Ice	3.02	3.02	0.20
						1/2" Ice	4.18	4.18	0.24
						1" Ice	5.33	5.33	0.28
						2" Ice	7.63	7.63	0.36
**									
1" Dia x 3.5-ft	A	From Leg	1.50	0.0000	100.00	No Ice	0.00	0.37	0.00
			0.00			1/2" Ice	0.00	0.68	0.01
			0.00			1" Ice	0.00	0.90	0.01
						2" Ice	0.00	1.37	0.03
1" Dia x 3.5-ft	B	From Leg	1.50	0.0000	100.00	No Ice	0.00	0.37	0.00
			0.00			1/2" Ice	0.00	0.68	0.01
			0.00			1" Ice	0.00	0.90	0.01
						2" Ice	0.00	1.37	0.03
1" Dia x 3.5-ft	C	From Leg	1.50	0.0000	100.00	No Ice	0.00	0.37	0.00
			0.00			1/2" Ice	0.00	0.68	0.01
			0.00			1" Ice	0.00	0.90	0.01
						2" Ice	0.00	1.37	0.03
**									
1" Dia x 3.5-ft	A	From Leg	1.50	0.0000	70.00	No Ice	0.00	0.37	0.00
			0.00			1/2" Ice	0.00	0.68	0.01
			0.00			1" Ice	0.00	0.90	0.01
						2" Ice	0.00	1.37	0.03
1" Dia x 3.5-ft	B	From Leg	1.50	0.0000	70.00	No Ice	0.00	0.37	0.00
			0.00			1/2" Ice	0.00	0.68	0.01

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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C <sub>AA</sub> Front	C <sub>AA</sub> Side	Weight
			Horz	Lateral					
			0.00						
1" Dia x 3.5-ft	C	From Leg	1.50	0.0000	70.00	1" Ice	0.00	0.90	0.01
			0.00			2" Ice	0.00	1.37	0.03
			0.00			No Ice	0.00	0.37	0.00
			0.00			1/2" Ice	0.00	0.68	0.01
			0.00			1" Ice	0.00	0.90	0.01
**									
1" Dia x 3.5-ft	A	From Leg	1.50	0.0000	40.00	No Ice	0.00	0.37	0.00
			0.00			1/2" Ice	0.00	0.68	0.01
			0.00			1" Ice	0.00	0.90	0.01
			0.00			2" Ice	0.00	1.37	0.03
			0.00			No Ice	0.00	0.37	0.00
1" Dia x 3.5-ft	B	From Leg	1.50	0.0000	40.00	No Ice	0.00	0.37	0.00
			0.00			1/2" Ice	0.00	0.68	0.01
			0.00			1" Ice	0.00	0.90	0.01
			0.00			2" Ice	0.00	1.37	0.03
			0.00			No Ice	0.00	0.37	0.00
1" Dia x 3.5-ft	C	From Leg	1.50	0.0000	40.00	No Ice	0.00	0.37	0.00
			0.00			1/2" Ice	0.00	0.68	0.01
			0.00			1" Ice	0.00	0.90	0.01
			0.00			2" Ice	0.00	1.37	0.03
			0.00			No Ice	0.00	0.37	0.00
1" Dia x 3.5-ft	A	From Leg	1.50	0.0000	10.00	No Ice	0.00	0.37	0.00
			0.00			1/2" Ice	0.00	0.68	0.01
			0.00			1" Ice	0.00	0.90	0.01
			0.00			2" Ice	0.00	1.37	0.03
			0.00			No Ice	0.00	0.37	0.00
1" Dia x 3.5-ft	B	From Leg	1.50	0.0000	10.00	No Ice	0.00	0.37	0.00
			0.00			1/2" Ice	0.00	0.68	0.01
			0.00			1" Ice	0.00	0.90	0.01
			0.00			2" Ice	0.00	1.37	0.03
			0.00			No Ice	0.00	0.37	0.00
1" Dia x 3.5-ft	C	From Leg	1.50	0.0000	10.00	No Ice	0.00	0.37	0.00
			0.00			1/2" Ice	0.00	0.68	0.01
			0.00			1" Ice	0.00	0.90	0.01
			0.00			2" Ice	0.00	1.37	0.03
			0.00			No Ice	0.00	0.37	0.00
**									

## Load Combinations

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



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

### Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	188 - 137	Pole	Max Tension	45	0.00	0.00	0.00
			Max. Compression	26	-46.96	-1.22	0.60
			Max. Mx	8	-19.27	-757.33	7.01
			Max. My	14	-19.18	6.71	-765.65
			Max. Vy	8	27.28	-757.33	7.01
			Max. Vx	14	27.65	6.71	-765.65
			Max. Torque	4			-1.90
L2	137 - 90.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-60.04	-1.22	0.34
			Max. Mx	8	-29.24	-2111.80	13.47
			Max. My	14	-29.18	13.15	-2137.36
			Max. Vy	8	31.81	-2111.80	13.47
			Max. Vx	14	32.18	13.15	-2137.36
			Max. Torque	4			-1.63
L3	90.25 - 44.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-76.82	-1.22	0.05

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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L4	44.5 - 0	Pole	Max. Mx	8	-42.66	-3624.62	19.56
			Max. My	14	-42.63	19.26	-3666.72
			Max. Vy	8	36.07	-3624.62	19.56
			Max. Vx	14	36.43	19.26	-3666.72
			Max. Torque	4			-1.62
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-103.68	-1.22	-0.32
			Max. Mx	8	-65.22	-5580.43	26.22
			Max. My	14	-65.22	25.95	-5640.84
			Max. Vy	8	40.29	-5580.43	26.22
			Max. Vx	14	40.64	25.95	-5640.84
			Max. Torque	4			-1.61

### Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	33	103.68	0.02	-12.13
	Max. H <sub>x</sub>	20	65.25	40.24	-0.13
	Max. H <sub>z</sub>	2	65.25	-0.13	40.58
	Max. M <sub>x</sub>	2	5640.25	-0.13	40.58
	Max. M <sub>z</sub>	8	5580.43	-40.24	0.13
	Max. Torsion	16	1.60	20.23	-35.21
	Min. Vert	7	48.94	-34.91	20.40
	Min. H <sub>x</sub>	8	65.25	-40.24	0.13
	Min. H <sub>z</sub>	14	65.25	0.13	-40.58
	Min. M <sub>x</sub>	14	-5640.84	0.13	-40.58
	Min. M <sub>z</sub>	20	-5579.28	40.24	-0.13
	Min. Torsion	4	-1.61	-20.23	35.21

### Tower Mast Reaction Summary

Load Combination	Vertical K	Shear <sub>x</sub> K	Shear <sub>z</sub> K	Overturning Moment, M <sub>x</sub> kip-ft	Overturning Moment, M <sub>z</sub> kip-ft	Torque kip-ft
Dead Only	54.37	0.00	0.00	0.22	-0.42	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	65.25	0.13	-40.58	-5640.25	-27.04	1.34
0.9 Dead+1.0 Wind 0 deg - No Ice	48.94	0.13	-40.58	-5542.40	-26.31	1.32
1.2 Dead+1.0 Wind 30 deg - No Ice	65.25	20.23	-35.21	-4897.75	-2813.13	1.61
0.9 Dead+1.0 Wind 30 deg - No Ice	48.94	20.23	-35.21	-4812.73	-2764.09	1.59
1.2 Dead+1.0 Wind 60 deg - No Ice	65.25	34.91	-20.40	-2843.03	-4845.82	1.44
0.9 Dead+1.0 Wind 60 deg - No Ice	48.94	34.91	-20.40	-2793.63	-4761.54	1.43
1.2 Dead+1.0 Wind 90 deg - No Ice	65.25	40.24	-0.13	-26.22	-5580.43	0.91
0.9 Dead+1.0 Wind 90 deg - No Ice	48.94	40.24	-0.13	-25.73	-5483.44	0.90

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Load Combination	Vertical K	Shear <sub>x</sub> K	Shear <sub>z</sub> K	Overturning Moment, M <sub>x</sub> kip-ft	Overturning Moment, M <sub>z</sub> kip-ft	Torque kip-ft
1.2 Dead+1.0 Wind 120 deg - No Ice	65.25	34.78	20.18	2797.91	-4819.73	0.15
0.9 Dead+1.0 Wind 120 deg - No Ice	48.94	34.78	20.18	2749.33	-4735.98	0.15
1.2 Dead+1.0 Wind 150 deg - No Ice	65.25	20.01	35.08	4872.22	-2767.49	-0.65
0.9 Dead+1.0 Wind 150 deg - No Ice	48.94	20.01	35.08	4787.58	-2719.41	-0.64
1.2 Dead+1.0 Wind 180 deg - No Ice	65.25	-0.13	40.58	5640.84	25.95	-1.29
0.9 Dead+1.0 Wind 180 deg - No Ice	48.94	-0.13	40.58	5542.83	25.53	-1.27
1.2 Dead+1.0 Wind 210 deg - No Ice	65.25	-20.23	35.21	4898.30	2812.05	-1.60
0.9 Dead+1.0 Wind 210 deg - No Ice	48.94	-20.23	35.21	4813.13	2763.31	-1.58
1.2 Dead+1.0 Wind 240 deg - No Ice	65.25	-34.91	20.40	2843.55	4844.71	-1.49
0.9 Dead+1.0 Wind 240 deg - No Ice	48.94	-34.91	20.40	2794.01	4760.73	-1.47
1.2 Dead+1.0 Wind 270 deg - No Ice	65.25	-40.24	0.13	26.76	5579.28	-0.96
0.9 Dead+1.0 Wind 270 deg - No Ice	48.94	-40.24	0.13	26.12	5482.61	-0.95
1.2 Dead+1.0 Wind 300 deg - No Ice	65.25	-34.78	-20.18	-2797.33	4818.57	-0.16
0.9 Dead+1.0 Wind 300 deg - No Ice	48.94	-34.78	-20.18	-2748.91	4735.14	-0.16
1.2 Dead+1.0 Wind 330 deg - No Ice	65.25	-20.01	-35.08	-4871.61	2766.36	0.69
0.9 Dead+1.0 Wind 330 deg - No Ice	48.94	-20.01	-35.08	-4787.14	2718.60	0.68
1.2 Dead+1.0 Ice+1.0 Temp	103.68	0.00	-0.00	0.32	-1.22	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	103.68	0.02	-12.13	-1791.07	-6.02	0.27
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	103.68	6.05	-10.51	-1553.34	-894.77	0.25
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	103.68	10.45	-6.08	-899.32	-1544.18	0.16
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	103.68	12.06	-0.02	-4.24	-1780.23	0.03
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	103.68	10.44	6.05	892.05	-1539.67	-0.11
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	103.68	6.01	10.49	1549.39	-886.94	-0.22
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	103.68	-0.02	12.13	1791.64	3.03	-0.27
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	103.68	-6.05	10.51	1553.90	891.79	-0.25
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	103.68	-10.45	6.08	899.88	1541.19	-0.16
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	103.68	-12.06	0.02	4.81	1777.24	-0.03
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	103.68	-10.44	-6.05	-891.48	1536.67	0.11
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	103.68	-6.01	-10.49	-1548.82	883.95	0.22
Dead+Wind 0 deg - Service	54.37	0.03	-9.89	-1362.73	-6.86	0.32
Dead+Wind 30 deg - Service	54.37	4.93	-8.58	-1183.35	-680.13	0.38
Dead+Wind 60 deg - Service	54.37	8.51	-4.97	-686.79	-1171.29	0.34
Dead+Wind 90 deg - Service	54.37	9.80	-0.03	-6.14	-1348.70	0.21

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Load Combination	Vertical K	Shear <sub>x</sub> K	Shear <sub>z</sub> K	Overturning Moment, M <sub>x</sub> kip-ft	Overturning Moment, M <sub>z</sub> kip-ft	Torque kip-ft
Dead+Wind 120 deg - Service	54.37	8.47	4.92	676.22	-1164.91	0.03
Dead+Wind 150 deg - Service	54.37	4.87	8.55	1177.45	-669.07	-0.17
Dead+Wind 180 deg - Service	54.37	-0.03	9.89	1363.22	5.91	-0.31
Dead+Wind 210 deg - Service	54.37	-4.93	8.58	1183.83	679.18	-0.38
Dead+Wind 240 deg - Service	54.37	-8.51	4.97	687.28	1170.34	-0.34
Dead+Wind 270 deg - Service	54.37	-9.80	0.03	6.63	1347.75	-0.21
Dead+Wind 300 deg - Service	54.37	-8.47	-4.92	-675.73	1163.95	-0.03
Dead+Wind 330 deg - Service	54.37	-4.87	-8.55	-1176.96	668.12	0.17

## Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.00	-54.37	0.00	0.00	54.37	0.00	0.000%
2	0.13	-65.25	-40.58	-0.13	65.25	40.58	0.000%
3	0.13	-48.94	-40.58	-0.13	48.94	40.58	0.000%
4	20.23	-65.25	-35.21	-20.23	65.25	35.21	0.000%
5	20.23	-48.94	-35.21	-20.23	48.94	35.21	0.000%
6	34.91	-65.25	-20.40	-34.91	65.25	20.40	0.000%
7	34.91	-48.94	-20.40	-34.91	48.94	20.40	0.000%
8	40.24	-65.25	-0.13	-40.24	65.25	0.13	0.000%
9	40.24	-48.94	-0.13	-40.24	48.94	0.13	0.000%
10	34.78	-65.25	20.18	-34.78	65.25	-20.18	0.000%
11	34.78	-48.94	20.18	-34.78	48.94	-20.18	0.000%
12	20.01	-65.25	35.08	-20.01	65.25	-35.08	0.000%
13	20.01	-48.94	35.08	-20.01	48.94	-35.08	0.000%
14	-0.13	-65.25	40.58	0.13	65.25	-40.58	0.000%
15	-0.13	-48.94	40.58	0.13	48.94	-40.58	0.000%
16	-20.23	-65.25	35.21	20.23	65.25	-35.21	0.000%
17	-20.23	-48.94	35.21	20.23	48.94	-35.21	0.000%
18	-34.91	-65.25	20.40	34.91	65.25	-20.40	0.000%
19	-34.91	-48.94	20.40	34.91	48.94	-20.40	0.000%
20	-40.24	-65.25	0.13	40.24	65.25	-0.13	0.000%
21	-40.24	-48.94	0.13	40.24	48.94	-0.13	0.000%
22	-34.78	-65.25	-20.18	34.78	65.25	20.18	0.000%
23	-34.78	-48.94	-20.18	34.78	48.94	20.18	0.000%
24	-20.01	-65.25	-35.08	20.01	65.25	35.08	0.000%
25	-20.01	-48.94	-35.08	20.01	48.94	35.08	0.000%
26	0.00	-103.68	0.00	-0.00	103.68	0.00	0.000%
27	0.02	-103.68	-12.13	-0.02	103.68	12.13	0.000%
28	6.05	-103.68	-10.51	-6.05	103.68	10.51	0.000%
29	10.45	-103.68	-6.08	-10.45	103.68	6.08	0.000%
30	12.06	-103.68	-0.02	-12.06	103.68	0.02	0.000%
31	10.44	-103.68	6.05	-10.44	103.68	-6.05	0.000%
32	6.01	-103.68	10.49	-6.01	103.68	-10.49	0.000%
33	-0.02	-103.68	12.13	0.02	103.68	-12.13	0.000%
34	-6.05	-103.68	10.51	6.05	103.68	-10.51	0.000%
35	-10.45	-103.68	6.08	10.45	103.68	-6.08	0.000%
36	-12.06	-103.68	0.02	12.06	103.68	-0.02	0.000%
37	-10.44	-103.68	-6.05	10.44	103.68	6.05	0.000%
38	-6.01	-103.68	-10.49	6.01	103.68	10.49	0.000%
39	0.03	-54.37	-9.89	-0.03	54.37	9.89	0.000%
40	4.93	-54.37	-8.58	-4.93	54.37	8.58	0.000%
41	8.51	-54.37	-4.97	-8.51	54.37	4.97	0.000%
42	9.80	-54.37	-0.03	-9.80	54.37	0.03	0.000%
43	8.47	-54.37	4.92	-8.47	54.37	-4.92	0.000%
44	4.87	-54.37	8.55	-4.87	54.37	-8.55	0.000%

<b>tnxTower</b>  <b>Tower Engineering Professionals, Inc.</b> 326 Tryon Road Raleigh, NC 27603 Phone: (919) 661-6351 FAX: (919) 661-6350	<b>Job</b>	CT New Britain 3 CAC 803175 (BU 803175)	<b>Page</b>	17 of 20
	<b>Project</b>	TEP No. 25666.605831	<b>Date</b>	14:33:13 10/01/21
	<b>Client</b>	Crown Castle	<b>Designed by</b>	tml Lester

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
45	-0.03	-54.37	9.89	0.03	54.37	-9.89	0.000%
46	-4.93	-54.37	8.58	4.93	54.37	-8.58	0.000%
47	-8.51	-54.37	4.97	8.51	54.37	-4.97	0.000%
48	-9.80	-54.37	0.03	9.80	54.37	-0.03	0.000%
49	-8.47	-54.37	-4.92	8.47	54.37	4.92	0.000%
50	-4.87	-54.37	-8.55	4.87	54.37	8.55	0.000%

## Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	5	0.00000001	0.00031458
3	Yes	5	0.00000001	0.00013930
4	Yes	6	0.00000001	0.00072772
5	Yes	6	0.00000001	0.00021535
6	Yes	6	0.00000001	0.00070664
7	Yes	6	0.00000001	0.00020802
8	Yes	5	0.00000001	0.00005276
9	Yes	5	0.00000001	0.00001986
10	Yes	6	0.00000001	0.00070556
11	Yes	6	0.00000001	0.00020999
12	Yes	6	0.00000001	0.00070997
13	Yes	6	0.00000001	0.00021131
14	Yes	5	0.00000001	0.00006390
15	Yes	5	0.00000001	0.00002724
16	Yes	6	0.00000001	0.00070633
17	Yes	6	0.00000001	0.00020774
18	Yes	6	0.00000001	0.00072513
19	Yes	6	0.00000001	0.00021474
20	Yes	5	0.00000001	0.00026440
21	Yes	5	0.00000001	0.00011750
22	Yes	6	0.00000001	0.00070253
23	Yes	6	0.00000001	0.00020902
24	Yes	6	0.00000001	0.00070036
25	Yes	6	0.00000001	0.00020801
26	Yes	4	0.00000001	0.00001022
27	Yes	6	0.00000001	0.00031999
28	Yes	6	0.00000001	0.00066553
29	Yes	6	0.00000001	0.00065790
30	Yes	6	0.00000001	0.00031771
31	Yes	6	0.00000001	0.00064822
32	Yes	6	0.00000001	0.00065435
33	Yes	6	0.00000001	0.00031940
34	Yes	6	0.00000001	0.00065303
35	Yes	6	0.00000001	0.00065769
36	Yes	6	0.00000001	0.00031647
37	Yes	6	0.00000001	0.00064814
38	Yes	6	0.00000001	0.00064489
39	Yes	4	0.00000001	0.00035916
40	Yes	5	0.00000001	0.00018365
41	Yes	5	0.00000001	0.00017030
42	Yes	4	0.00000001	0.00031545
43	Yes	5	0.00000001	0.00017010
44	Yes	5	0.00000001	0.00017343
45	Yes	4	0.00000001	0.00033539

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

46	Yes	5	0.00000001	0.00017003
47	Yes	5	0.00000001	0.00018142
48	Yes	4	0.00000001	0.00033157
49	Yes	5	0.00000001	0.00016811
50	Yes	5	0.00000001	0.00016667

### Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	188 - 137	45.415	40	2.2834	0.0055
L2	141.25 - 90.25	24.625	40	1.8429	0.0017
L3	95.5 - 44.5	10.247	40	1.1097	0.0007
L4	51 - 0	2.686	40	0.4898	0.0002

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

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
189.00	AIR 6419 B77G w/ Mount Pipe	40	45.415	2.2834	0.0056	32718
188.00	3/4" x 8-ft Lightning Rod	40	45.415	2.2834	0.0056	32718
173.00	MX08FRO665-21 w/ Mount Pipe	40	38.384	2.1672	0.0042	10905
162.00	AIR 6454 B41 w/ Mount Pipe	40	33.372	2.0720	0.0032	6290
146.00	CBRS w/ Mount Pipe	40	26.521	1.9028	0.0020	3893
133.00	Side Arm Mount [SO 701-3]	40	21.515	1.7269	0.0014	3539
100.00	1" Dia x 3.5-ft	40	11.356	1.1839	0.0007	3721
70.00	1" Dia x 3.5-ft	40	5.172	0.7284	0.0004	3934
40.00	1" Dia x 3.5-ft	40	1.722	0.3695	0.0001	5211
10.00	1" Dia x 3.5-ft	40	0.287	0.0869	0.0000	20842

### Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	188 - 137	187.517	4	9.4675	0.0224
L2	141.25 - 90.25	101.863	4	7.6437	0.0071
L3	95.5 - 44.5	42.431	4	4.6016	0.0028
L4	51 - 0	11.122	4	2.0293	0.0009

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

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
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<b>tnxTower</b>  <b>Tower Engineering Professionals, Inc.</b> 326 Tryon Road Raleigh, NC 27603 Phone: (919) 661-6351 FAX: (919) 661-6350	<b>Job</b>	CT New Britain 3 CAC 803175 (BU 803175)	<b>Page</b>	19 of 20
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	<b>Client</b>	Crown Castle	<b>Designed by</b>	tmlester

Elevation	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
189.00	AIR 6419 B77G w/ Mount Pipe	4	187.517	9.4675	0.0250	8310
188.00	3/4" x 8-ft Lightning Rod	4	187.517	9.4675	0.0250	8310
173.00	MX08FRO665-21 w/ Mount Pipe	4	158.565	8.9868	0.0185	2767
162.00	AIR 6454 B41 w/ Mount Pipe	4	137.919	8.5927	0.0140	1592
146.00	CBRS w/ Mount Pipe	4	109.681	7.8919	0.0087	980
133.00	Side Arm Mount [SO 701-3]	4	89.024	7.1627	0.0059	884
100.00	1" Dia x 3.5-ft	4	47.022	4.9096	0.0030	911
70.00	1" Dia x 3.5-ft	4	21.419	3.0192	0.0016	955
40.00	1" Dia x 3.5-ft	4	7.132	1.5306	0.0006	1259
10.00	1" Dia x 3.5-ft	4	1.187	0.3598	0.0001	5031

### Compression Checks

### Pole Design Data

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio P <sub>u</sub> / φP <sub>n</sub>
L1	188 - 137 (1)	TP32.711x22x0.25	51.00	0.00	0.0	25.0495	-19.17	1465.40	0.013
L2	137 - 90.25 (2)	TP42.03x31.3184x0.3125	51.00	0.00	0.0	40.2848	-29.17	2356.66	0.012
L3	90.25 - 44.5 (3)	TP51.014x40.3023x0.375	51.00	0.00	0.0	58.6481	-42.63	3430.92	0.012
L4	44.5 - 0 (4)	TP59.61x48.8988x0.5	51.00	0.00	0.0	93.8076	-65.22	5487.74	0.012

### Pole Bending Design Data

Section No.	Elevation ft	Size	M <sub>ux</sub> kip-ft	φM <sub>ux</sub> kip-ft	Ratio M <sub>ux</sub> / φM <sub>ux</sub>	M <sub>uy</sub> kip-ft	φM <sub>uy</sub> kip-ft	Ratio M <sub>uy</sub> / φM <sub>uy</sub>
L1	188 - 137 (1)	TP32.711x22x0.25	769.45	1113.48	0.691	0.00	1113.48	0.000
L2	137 - 90.25 (2)	TP42.03x31.3184x0.3125	2142.38	2281.22	0.939	0.00	2281.22	0.000
L3	90.25 - 44.5 (3)	TP51.014x40.3023x0.375	3672.86	4013.65	0.915	0.00	4013.65	0.000
L4	44.5 - 0 (4)	TP59.61x48.8988x0.5	5648.15	7974.63	0.708	0.00	7974.63	0.000

### Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V <sub>u</sub> K	φV <sub>n</sub> K	Ratio V <sub>u</sub> / φV <sub>n</sub>	Actual T <sub>u</sub> kip-ft	φT <sub>n</sub> kip-ft	Ratio T <sub>u</sub> / φT <sub>n</sub>
L1	188 - 137 (1)	TP32.711x22x0.25	27.68	439.62	0.063	1.63	1215.38	0.001
L2	137 - 90.25 (2)	TP42.03x31.3184x0.3125	32.21	707.00	0.046	1.62	2514.68	0.001
L3	90.25 - 44.5 (3)	TP51.014x40.3023x0.375	36.46	1029.27	0.035	1.61	4441.48	0.000
L4	44.5 - 0 (4)	TP59.61x48.8988x0.5	40.66	1646.32	0.025	1.61	8522.25	0.000

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	<b>Project</b> TEP No. 25666.605831	<b>Date</b> 14:33:13 10/01/21
	<b>Client</b> Crown Castle	<b>Designed by</b> tmlester

### Pole Interaction Design Data

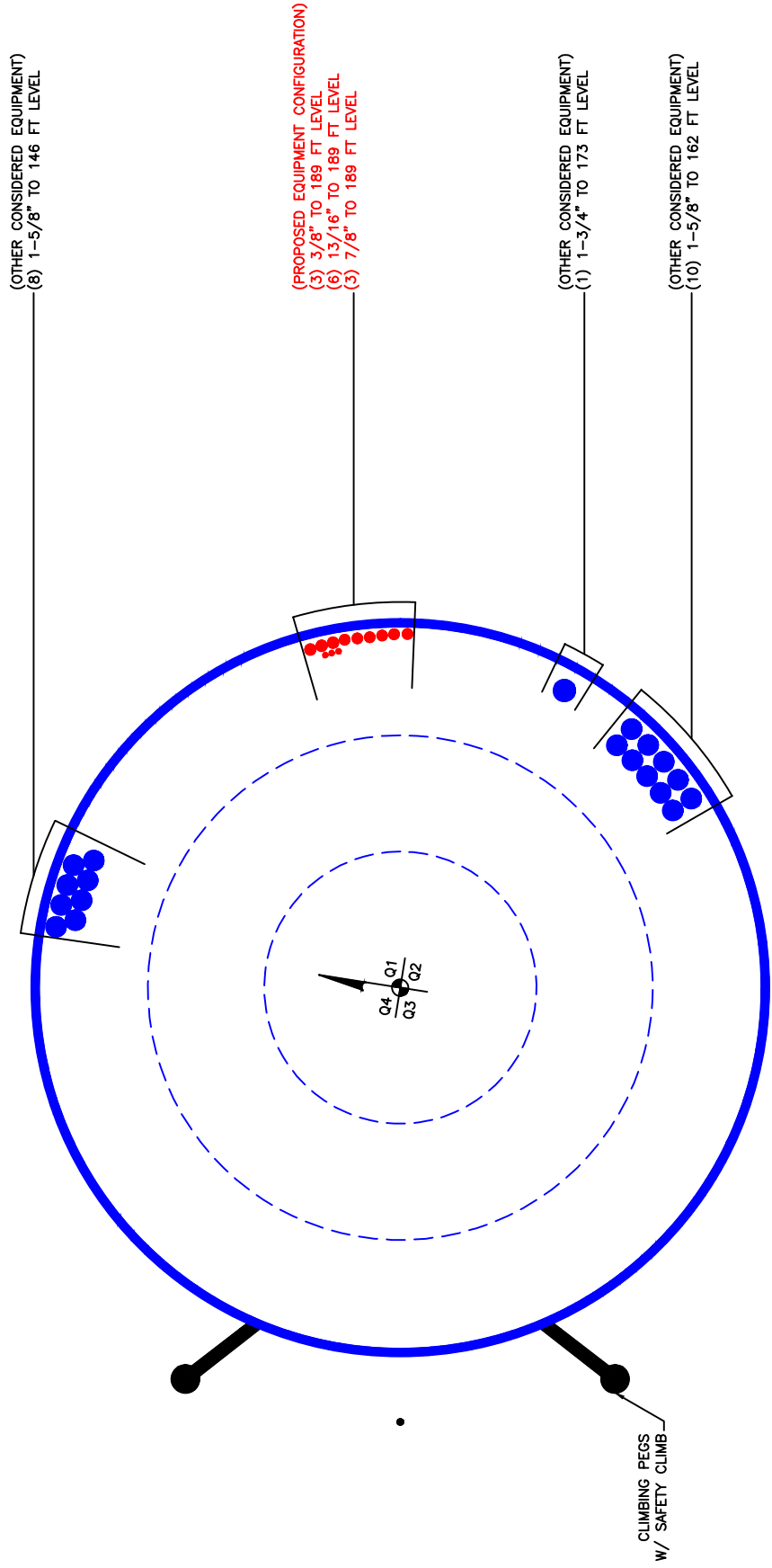
Section No.	Elevation ft	Ratio	Ratio	Ratio	Ratio	Ratio	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
		$P_u$	$M_{ux}$	$M_{uy}$	$V_u$	$T_u$			
L1	188 - 137 (1)	0.013	0.691	0.000	0.063	0.001	0.708	1.050	4.8.2
L2	137 - 90.25 (2)	0.012	0.939	0.000	0.046	0.001	0.954	1.050	4.8.2
L3	90.25 - 44.5 (3)	0.012	0.915	0.000	0.035	0.000	0.929	1.050	4.8.2
L4	44.5 - 0 (4)	0.012	0.708	0.000	0.025	0.000	0.721	1.050	4.8.2

### Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	$\phi P_{allow}$ K	% Capacity	Pass Fail
L1	188 - 137	Pole	TP32.711x22x0.25	1	-19.17	1538.67	67.5	Pass
L2	137 - 90.25	Pole	TP42.03x31.3184x0.3125	2	-29.17	2474.49	90.8	Pass
L3	90.25 - 44.5	Pole	TP51.014x40.3023x0.375	3	-42.63	3602.47	88.5	Pass
L4	44.5 - 0	Pole	TP59.61x48.8988x0.5	4	-65.22	5762.13	68.6	Pass
Summary								
Pole (L2)							90.8	Pass
<b>RATING =</b>							<b>90.8</b>	<b>Pass</b>



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



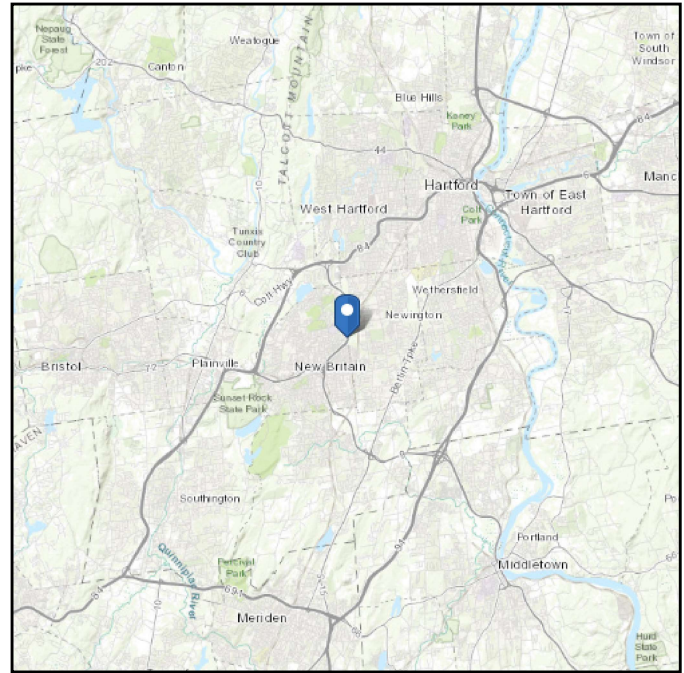
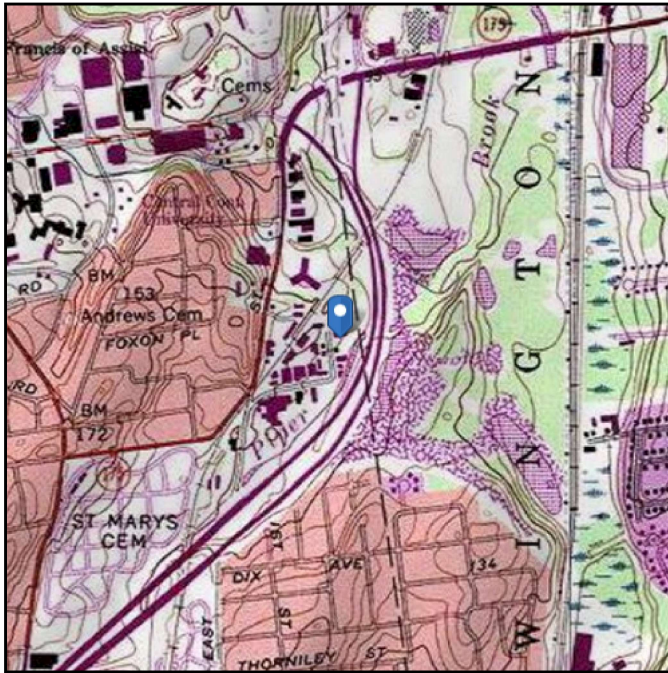
**APPENDIX C**  
**ADDITIONAL CALCULATIONS**

# ASCE 7 Hazards Report

**Address:**  
No Address at This Location

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

**Elevation:** 88.33 ft (NAVD 88)  
**Latitude:** 41.686611  
**Longitude:** -72.757722



## Wind

### Results:

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

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2  
Date Accessed: Fri Oct 01 2021

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

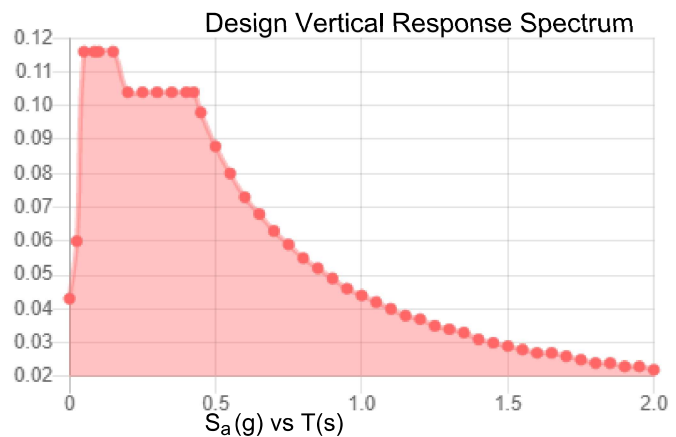
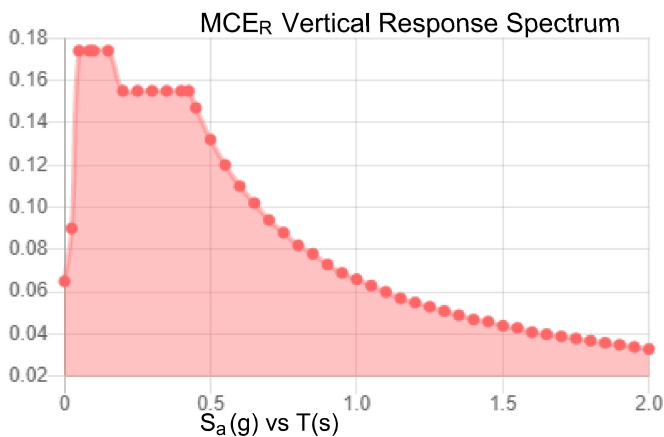
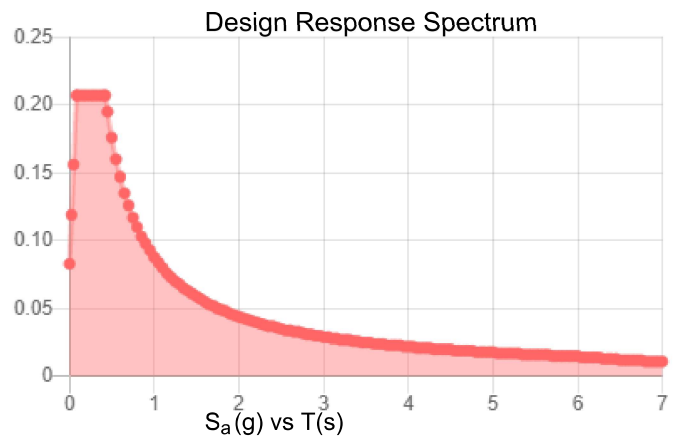
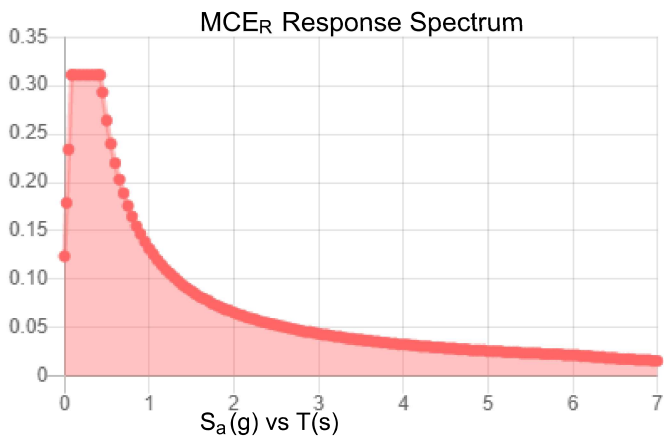
Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

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

**Results:**

$S_s$ :	0.194	$S_{D1}$ :	0.088
$S_1$ :	0.055	$T_L$ :	6
$F_a$ :	1.6	PGA :	0.106
$F_v$ :	2.4	PGA <sub>M</sub> :	0.168
$S_{MS}$ :	0.311	$F_{PGA}$ :	1.589
$S_{M1}$ :	0.132	$I_e$ :	1
$S_{DS}$ :	0.207	$C_v$ :	0.7

**Seismic Design Category** B



**Data Accessed:** Fri Oct 01 2021  
**Date Source:** USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.

## Ice

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### Results:

Ice Thickness: 1.50 in.

Concurrent Temperature: 15 F

Gust Speed: 50 mph

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

**Date Accessed:** Fri Oct 01 2021

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

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

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

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# Monopole Base Plate Connection

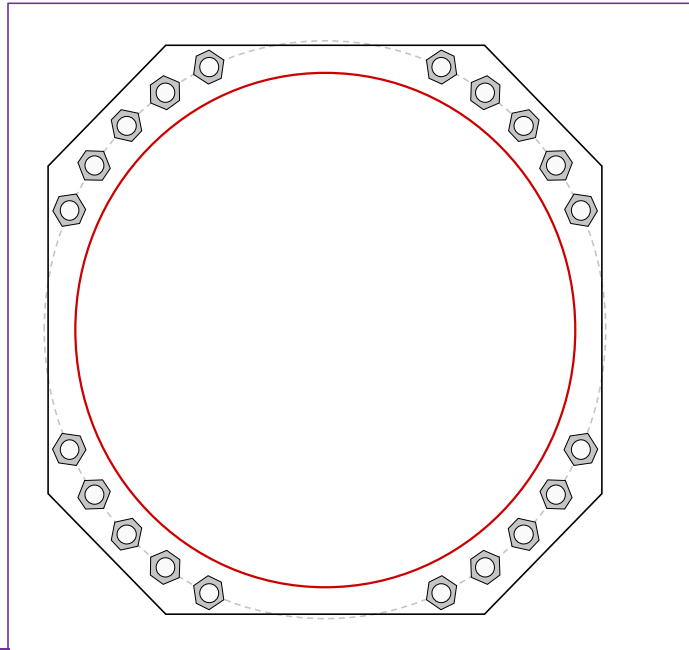


Site Info	
BU #	803175
Site Name	CT New Britain 3 CAC
Order #	556525 Rev. 1

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
$I_{ar}$ (in)	1.25

Applied Loads	
Moment (kip-ft)	5648.00
Axial Force (kips)	65.00
Shear Force (kips)	41.00

\*TIA-222-H Section 15.5 Applied



Connection Properties	Analysis Results
-----------------------	------------------

**Anchor Rod Data**

(20) 2-1/4"  $\phi$  bolts (A615-75 N;  $F_y=75$  ksi,  $F_u=100$  ksi) on 67" BC  
Anchor Spacing: 6 in

**Base Plate Data**

66" W x 3" Plate (A572-50;  $F_y=50$  ksi,  $F_u=65$  ksi); Clip: 14 in

**Stiffener Data**

N/A

**Pole Data**

59.61" x 0.5" 18-sided pole (A607-65;  $F_y=65$  ksi,  $F_u=80$  ksi)

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

$P_{u,t} = 198.97$	$\phi P_{n,t} = 243.75$	<b>Stress Rating</b>
$V_u = 2.05$	$\phi V_n = 149.1$	<b>77.7%</b>
$M_u = n/a$	$\phi M_n = n/a$	<b>Pass</b>

**Base Plate Summary**

Max Stress (ksi):	34.77	(Flexural)
Allowable Stress (ksi):	45	
Stress Rating:	<b>73.6%</b>	<b>Pass</b>

# Pier and Pad Foundation



BU #: 803175  
 Site Name: CT New Britain 3 C  
 App. Number: 556525 Rev. 1

TIA-222 Revision: H  
 Tower Type: Monopole

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

Superstructure Analysis Reactions		
Compression, $P_{comp}$ :	65	kips
Base Shear, $V_{u\_comp}$ :	41	kips
Moment, $M_u$ :	5648	ft-kips
Tower Height, $H$ :	188	ft
BP Dist. Above Fdn, $bp_{dist}$ :	3.5	in

Foundation Analysis Checks				
	Capacity	Demand	Rating*	Check
Lateral (Sliding) (kips)	222.68	41.00	17.5%	Pass
Bearing Pressure (ksf)	9.00	4.54	50.5%	Pass
Overtuning (kip*ft)	6596.23	5946.96	90.2%	Pass
Pier Flexure (Comp.) (kip*ft)	9866.43	5812.00	56.1%	Pass
Pier Compression (kip)	30551.04	111.08	0.3%	Pass
Pad Flexure (kip*ft)	6473.47	3081.21	45.3%	Pass
Pad Shear - 1-way (kips)	766.05	416.39	51.8%	Pass
Pad Shear - 2-way (Comp) (ksi)	0.164	0.000	0.0%	Pass
Flexural 2-way (Comp) (kip*ft)	8464.14	3487.20	39.2%	Pass

Pier Properties		
Pier Shape:	Square	
Pier Diameter, $dpier$ :	8	ft
Ext. Above Grade, $E$ :	1.083333	ft
Pier Rebar Size, $Sc$ :	11	
Pier Rebar Quantity, $mc$ :	36	
Pier Tie/Spiral Size, $St$ :	5	
Pier Tie/Spiral Quantity, $mt$ :	12	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, $cc_{pier}$ :	4	in

\*Rating per TIA-222-H Section 15.5

Structural Rating*:	56.1%
Soil Rating*:	90.2%

Pad Properties		
Depth, $D$ :	5.9167	ft
Pad Width, $W_1$ :	26	ft
Pad Thickness, $T$ :	3	ft
Pad Rebar Size (Bottom dir. 2), $Sp_2$ :	11	
Pad Rebar Quantity (Bottom dir. 2), $mp_2$ :	33	
Pad Clear Cover, $cc_{pad}$ :	4	in

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

Soil Properties		
Total Soil Unit Weight, $\gamma$ :	110	pcf
Ultimate Gross Bearing, $Q_{ult}$ :	12,000	ksf
Cohesion, $C_u$ :	0.000	ksf
Friction Angle, $\phi$ :	30	degrees
SPT Blow Count, $N_{blows}$ :		
Base Friction, $\mu$ :		
Neglected Depth, $N$ :	3.33	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, $gw$ :	17.75	ft

<--Toggle between Gross and Net



# Exhibit E

## **Mount Analysis**

September 20, 2021



Tower Engineering Professionals  
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**Subject:** **Mount Analysis**

**Carrier Designation:** **AT&T Mobility Reconfiguration**  
**Client Site Number:** CTL05379  
**Client Site Name:** CT New Britain 3 CAC 803175  
**FA Location Code:** 10091781

**Crown Castle Designation:** **Crown Castle BU Number:** 803175  
**Crown Castle Site Name:** CT New Britain 3 CAC 803175  
**Crown Castle JDE Job Number:** 649376  
**Crown Castle Order Number:** 556525 Rev. 1

**Engineering Firm Designation:** **TEP Project Number:** 25666.598873

**Site Data:** **167 Cocomo, New Britain, Hartford County, CT 06051**  
**Latitude 41° 41' 11.80", Longitude -72° 45' 27.80"**

**Structure Information:** **Tower Height & Type:** 188.0± ft Monopole  
**Mount Elevation:** 189.0 ft  
**Mount Width & Type:** 14.0 ft Platform w/ Support Rail

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

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

**Platform w/ Support Rail Mount**

**Sufficient Capacity**

The analysis has been performed in accordance with the 2018 International Building Code based upon an ultimate 3-second gust wind speed of 118 mph. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Danny Murillo / WHW

Respectfully submitted by:

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09/20/2021

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## 1) INTRODUCTION

The mount is an existing 14.0-ft 3-sector Platform w/ Support Rail mount. The mount is installed at the 189.0 ft elevation on the 188.0± ft Monopole.

## 2) ANALYSIS CRITERIA

<b>Building Code:</b>	2018 IBC
<b>TIA-222 Revision:</b>	TIA-222-H
<b>Risk Category:</b>	II
<b>Ultimate Wind Speed:</b>	118 mph
<b>Exposure Category:</b>	C
<b>Topographic Category at Base:</b>	1.0
<b>Topographic Category at Mount:</b>	1.0
<b>Ice Thickness:</b>	1.50 in
<b>Wind Speed with Ice:</b>	50 mph
<b>Seismic Design Category:</b>	B
<b>Seismic S<sub>s</sub>:</b>	0.194
<b>Seismic S<sub>1</sub>:</b>	0.055
<b>Live Loading Wind Speed:</b>	30 mph
<b>Live Loading at Mid/End-Points:</b>	250 lb
<b>Man Live Loading at Mount Pipes:</b>	500 lb

**Table 1 - Proposed Equipment Configuration**

Mount Centerline (ft)	Antenna Centerline (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Mount / Modification Details
189.0	190.0	1	CCI Antennas	DMP65R-BU4D	Platform w/ Support Rail Mount
		2	CCI Antennas	DMP65R-BU6D	
		3	Ericsson	AIR 6419 B77G	
		3	Ericsson	Air 6449 N77	
		1	Quintel Technology	QD4616-7	
		2	Quintel Technology	QD6616-7	
		3	Ericsson	RRUS 4415 B25	
		3	Ericsson	RRUS 4449 B5/B12	
		3	Ericsson	RRUS 4478 B14	
	3	Raycap	DC9-48-60-24-8C-EV		
	189.0	3	Ericsson	RRUS 32 B30	
		3	Ericsson	RRUS 32 B66	

### 3) ANALYSIS PROCEDURE

**Table 2 - Documents Provided**

Document	Remarks	Reference	Source
Previous Mount Modification Design	Tower Engineering Professionals	Doc ID: 9317251	CCIsites
RFDS	AT&T Mobility	RFDS ID: 4397222	CCIsites
Loading Application	AT&T Mobility	Order 556525 Rev. 1	CCIsites

#### 3.1) Analysis Method

RISA-3D (Version 17.0.4), a commercially available analysis software package, was used to create a three-dimensional model of the mount and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A and Appendix C.

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

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

In addition, this analysis is in accordance with AT&T's *Mount Technical Guidance – Revision 15*.

#### 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 top plate 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, 15<sup>th</sup> Edition. See RISA-3D output for confirmation on grades used in this analysis.

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

#### 4) ANALYSIS RESULTS

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

Notes	Component	Critical Member	Mount Centerline (ft)	% Capacity	Pass / Fail
1	Face Horizontals	FFTH-2	189.0	81.8	Pass
1	Support Rails	SR-3	189.0	81.5	Pass
1	Mount Pipes	MP-9	189.0	56.5	Pass
1	Internals	GSC2	189.0	51.2	Pass
1	Platform Reinforcement	K2	189.0	36.1	Pass

<b>Structure Rating (max from all components) =</b>	<b>81.8%</b>
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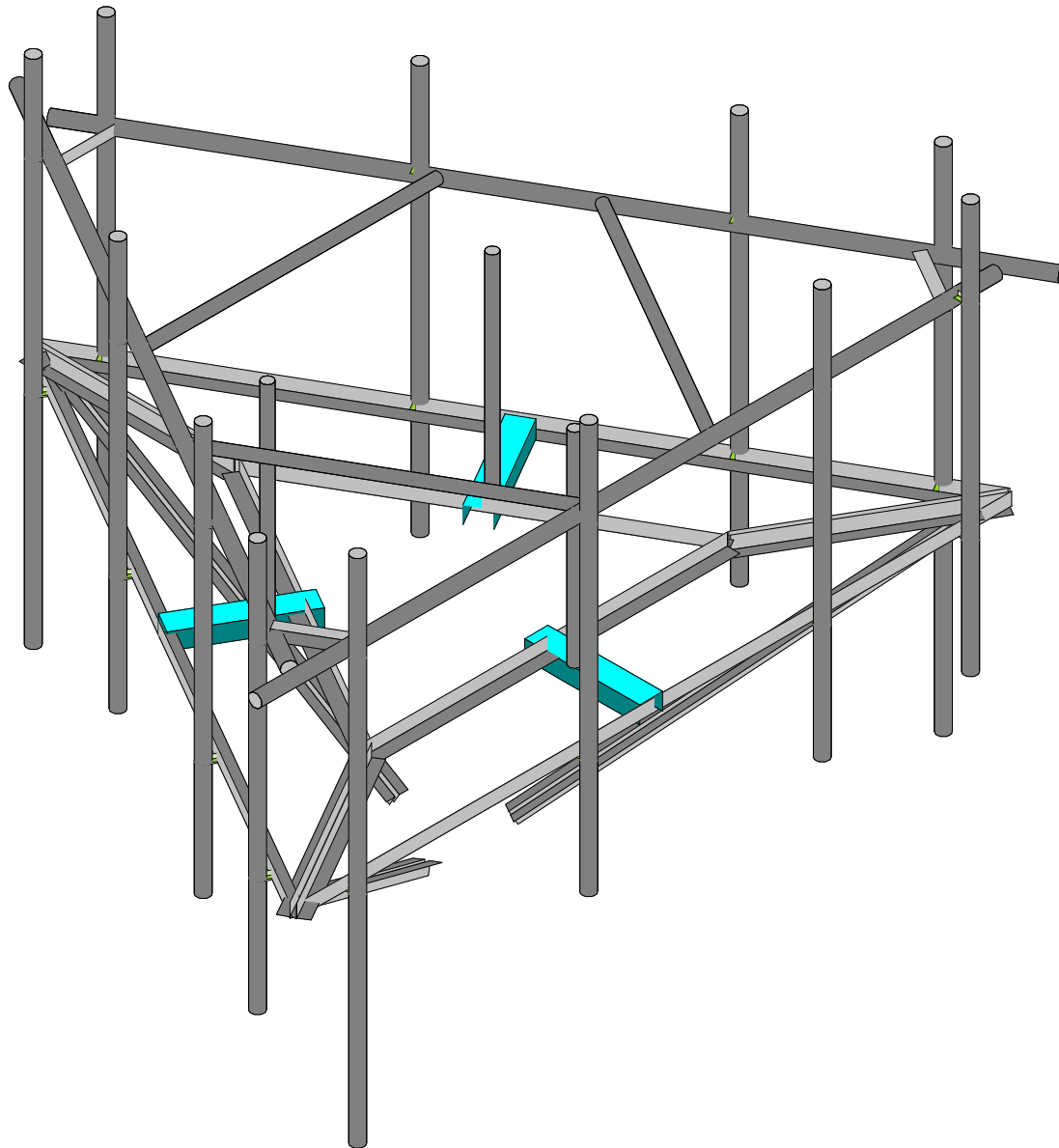
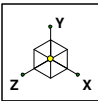
Notes:

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

#### 4.1) Recommendations

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

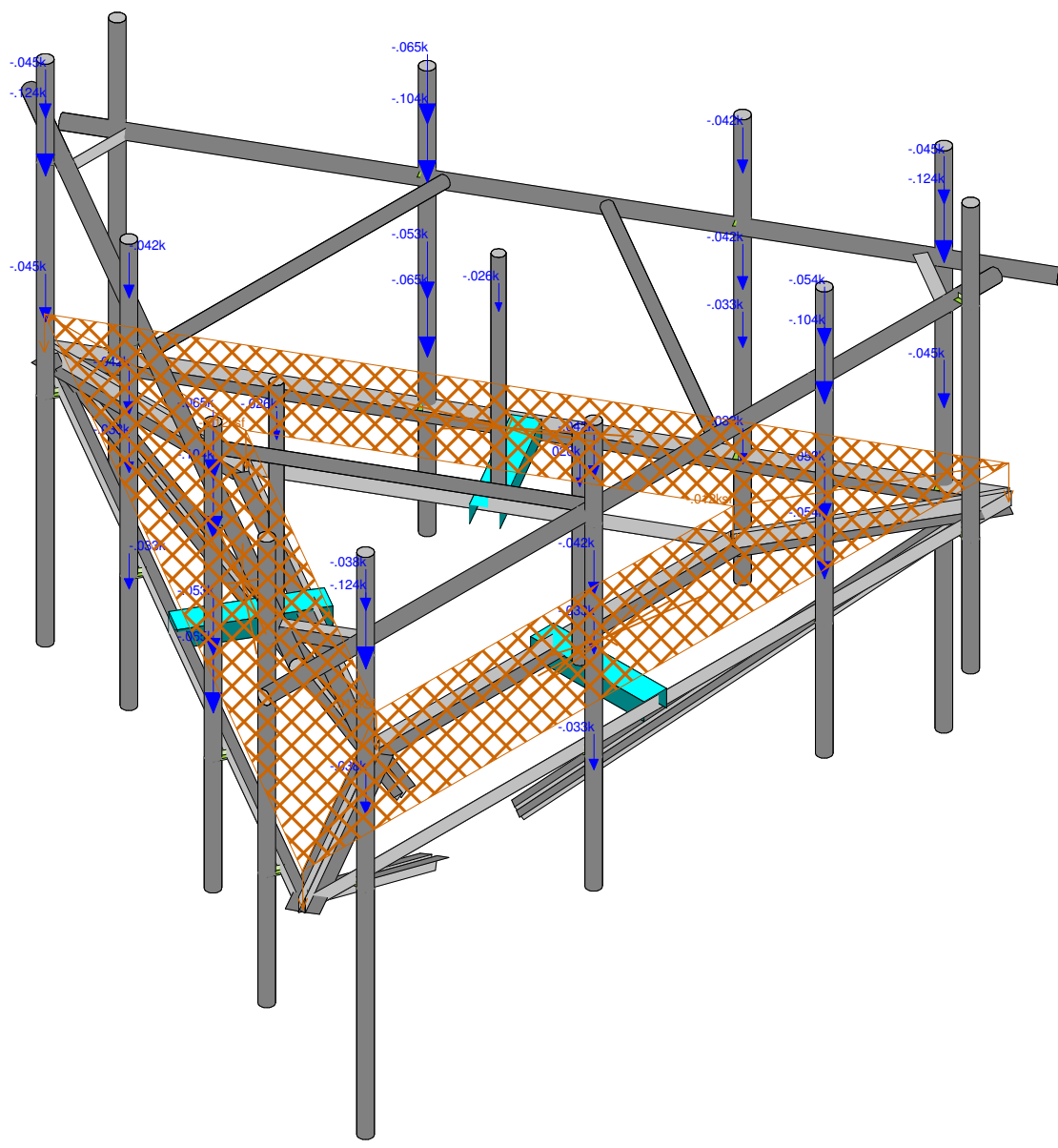
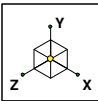
**APPENDIX A**  
**WIRE FRAME AND RENDERED MODELS**



Envelope Only Solution

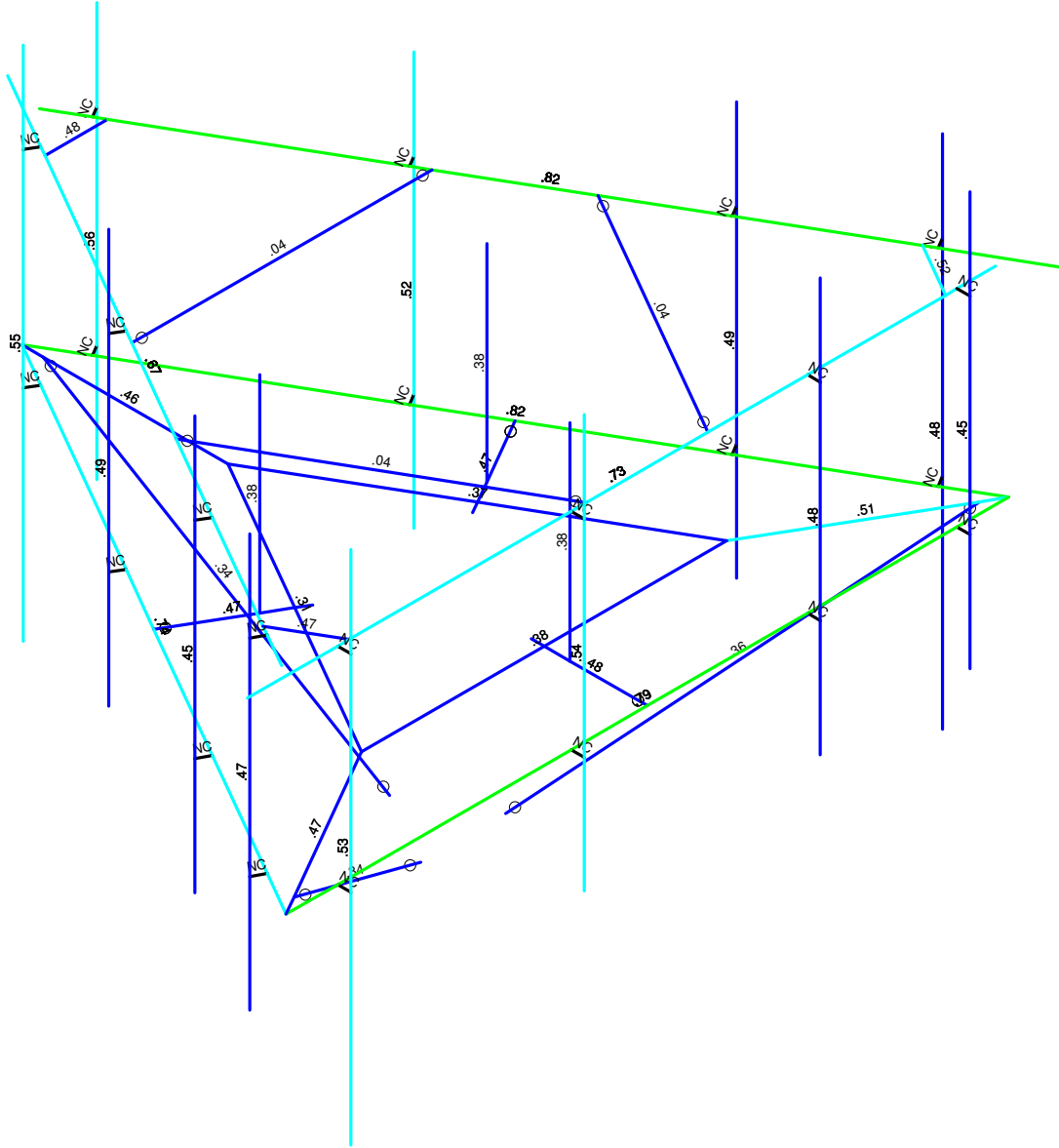
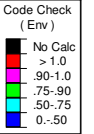
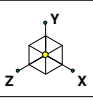
Tower Engineering Profess...	CCI BU No. 803175	SK - 1
DJM		Sept 15, 2021 at 4:45 PM
TEP No. 25666.598873		Mount Rev H.r3d





Loads: BLC 1, Dead  
Envelope Only Solution

Tower Engineering Profess...	CCI BU No. 803175	SK - 2
DJM		Sept 15, 2021 at 4:45 PM
TEP No. 25666.598873		Mount Rev H.r3d



Member Code Checks Displayed (Enveloped)  
Envelope Only Solution

Tower Engineering Profess...

DJM

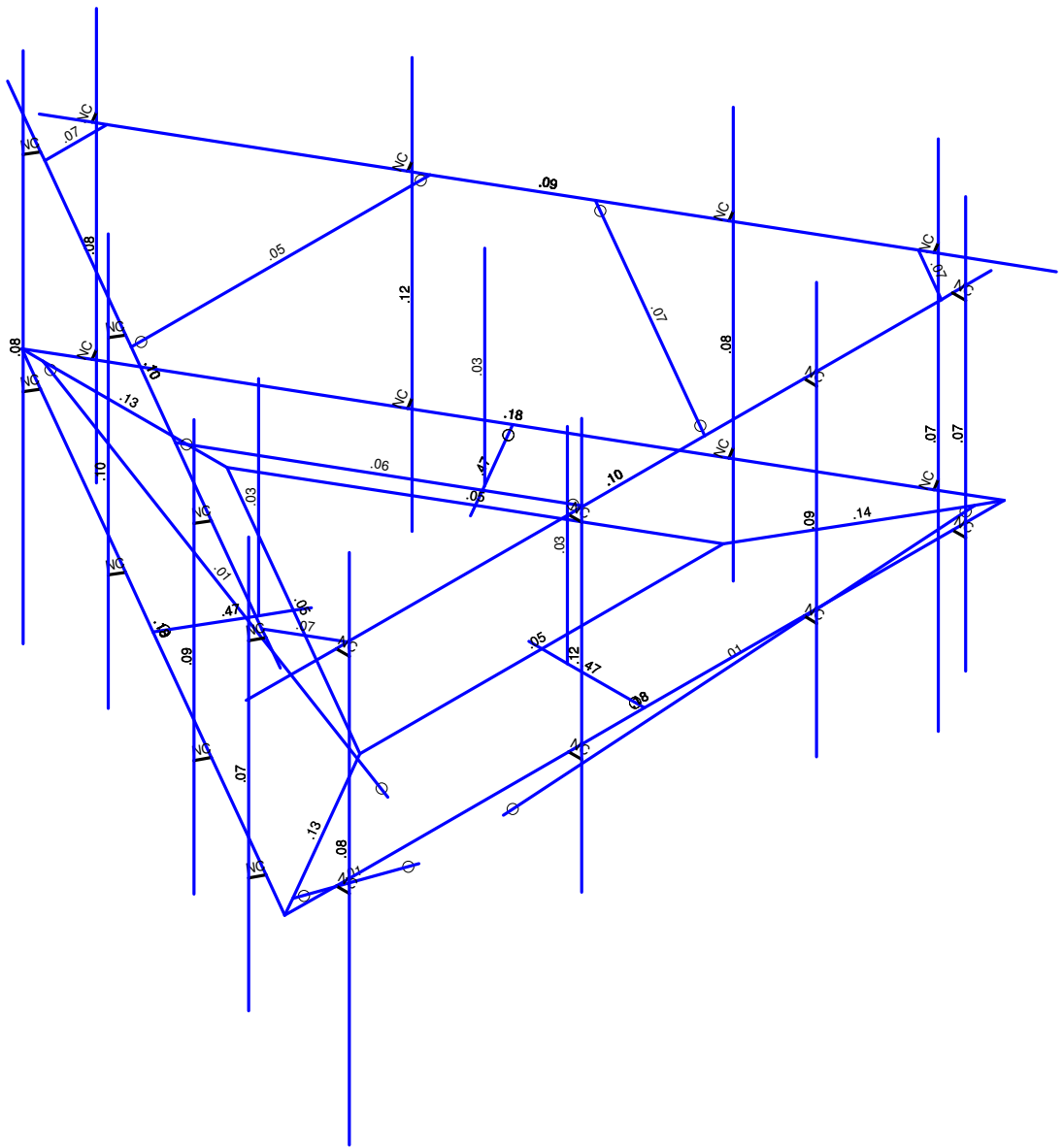
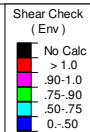
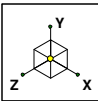
TEP No. 25666.598873

CCI BU No. 803175

SK - 3

Sept 15, 2021 at 4:45 PM

Mount Rev H.r3d



Member Shear Checks Displayed (Enveloped)  
Envelope Only Solution

Tower Engineering Profess...	CCI BU No. 803175	SK - 4
DJM		Sept 15, 2021 at 4:45 PM
TEP No. 25666.598873		Mount Rev H.r3d

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



Code Revisions:	<b>TIA-222-H</b>	<b>IBC 2018</b>
Tower Type:	<b>Monopole</b>	

Wind Inputs:		
Ult. Wind Velocity:	<b>118.0</b>	mph
Live Load Velocity:	<b>30.0</b>	mph
Ice Wind Velocity:	<b>50.0</b>	mph
Base Ice Thickness:	<b>1.50</b>	inches
Mount Centerline:	<b>189.0</b>	ft
Antenna Centerline:	<b>190.0</b>	ft
Exposure Category:	<b>C</b>	
Topo Category:	<b>1</b>	
Risk Category:	<b>II</b>	
Ground Elevation:	<b>88</b>	ft

Wind Calculations:		
$K_{zt}$ :	<b>1.000</b>	Section 2.6.6
$K_d$ :	0.950	
$K_{z-Mount}$ :	1.447	Section 2.6.5.2
$K_{z-Antenna}$ :	1.449	Section 2.6.5.2
$K_{iz}$ :	1.191	Section 2.6.10
Ice Thickness:	1.786	inches - Section 2.6.10

Without Ice - (psf)	With Ice - (psf)
$(q_z G_h)_{Mount}$ : 48.85	$(q_z G_h)_{Mount}$ : 8.77
$(q_z G_h)_{Antenna}$ : 48.90	$(q_z G_h)_{Antenna}$ : 8.78

Seismic Code Revisions:	<b>TIA-222-H</b>
Seismic Risk Category:	<b>II</b>

Seismic Input		
$S_{DS}$ :	<b>0.207</b>	Design Short Period Spectral Accel.
$I_p$ :	<b>1.0</b>	Importance Factor
$R_p$ :	<b>2.0</b>	Response Modification Factor
$\rho$ :	<b>1.0</b>	
$A_5$ :	<b>1.0</b>	Applification Factor - TIA-222-H Section 2.7.8.1
$S_1$ :	<b>0.055</b>	Spectral Acceleration at a Period of 1 Second

Seismic Design Force			
$C_s$ :	0.104	kips/kip	TIA-H Sec 2.7.7.1.1
$C_{s-min}$ :	0.030	kips/kip	TIA-H Sec 2.7.7.1.1



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

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

MFR	Model	Height (in)	Width (in)	Depth (in)	Wt. (lbs)	Azimuth°	Qty	Shape	Member Label	Distance from start node of the member		
										Location #1 (ft,%)	Location #2 (ft,%)	Location #3 (ft,%)
Quintel Technology	QD4616-7	51.50	22.00	9.60	109.00	350.00	1	Flat	MP-2	1.00	5.00	
Ericsson	RRUS 4478 B14	16.50	13.40	7.70	59.90	90.00	1	Flat	MP-2	2.00		
Ericsson	RRUS 4415 B25	14.96	13.19	5.39	44.00	90.00	1	Flat	MP-2	2.00		
Ericsson	RRUS 32 B66	27.20	12.10	7.00	53.00	90.00	1	Flat	MP-2	4.00		
Ericsson	Air 6449 N77	30.63	15.87	10.55	83.78	350.00	1	Flat	MP-3	1.00	3.00	
Ericsson	AIR 6419 B77G	27.95	15.75	6.68	66.20	350.00	1	Flat	MP-3	4.00	6.00	
CCI Antennas	DMP65R-BU4D	48.00	20.70	7.70	76.50	350.00	1	Flat	MP-4	1.00	4.50	
Ericsson	RRUS 4449 B5/B12	17.90	13.19	9.44	71.00	90.00	1	Flat	MP-4	2.00		
Ericsson	RRUS 32 B30	27.20	12.05	7.00	52.90	90.00	1	Flat	MP-4	2.00		
Quintel Technology	QD6616-7	72.00	22.00	9.60	130.00	120.00	1	Flat	MP-6	1.00	5.00	
Ericsson	RRUS 4478 B14	16.50	13.40	7.70	59.90	210.00	1	Flat	MP-6	2.00		
Ericsson	RRUS 4415 B25	14.96	13.19	5.39	44.00	210.00	1	Flat	MP-6	2.00		
Ericsson	RRUS 32 B66	27.20	12.10	7.00	53.00	120.00	1	Flat	MP-6	4.00		
Ericsson	Air 6449 N77	30.63	15.87	10.55	83.78	120.00	1	Flat	MP-7	1.00	3.00	
Ericsson	AIR 6419 B77G	27.95	15.75	6.68	66.20	120.00	1	Flat	MP-7	4.00	6.00	
CCI Antennas	DMP65R-BU6D	71.20	20.70	7.70	89.30	120.00	1	Flat	MP-8	1.00	4.50	
Ericsson	RRUS 4449 B5/B12	17.90	13.19	9.44	71.00	210.00	1	Flat	MP-8	2.00		
Ericsson	RRUS 32 B30	27.20	12.05	7.00	52.90	210.00	1	Flat	MP-8	2.00		
Quintel Technology	QD6616-7	72.00	22.00	9.60	130.00	240.00	1	Flat	MP-10	1.00	5.00	
Ericsson	RRUS 4478 B14	16.50	13.40	7.70	59.90	330.00	1	Flat	MP-10	2.00		
Ericsson	RRUS 4415 B25	14.96	13.19	5.39	44.00	330.00	1	Flat	MP-10	2.00		
Ericsson	RRUS 32 B66	27.20	12.10	7.00	53.00	240.00	1	Flat	MP-10	4.00		
Ericsson	Air 6449 N77	30.63	15.87	10.55	83.78	240.00	1	Flat	MP-11	1.00	3.00	
Ericsson	AIR 6419 B77G	27.95	15.75	6.68	66.20	240.00	1	Flat	MP-11	4.00	6.00	
CCI Antennas	DMP65R-BU6D	71.20	20.70	7.70	89.30	240.00	1	Flat	MP-12	1.00	4.50	
Ericsson	RRUS 4449 B5/B12	17.90	13.19	9.44	71.00	330.00	1	Flat	MP-12	2.00		
Ericsson	RRUS 32 B30	27.20	12.05	7.00	52.90	330.00	1	Flat	MP-12	2.00		
Raycap	DC9-48-60-24-8C-EV	31.41	10.24	18.28	26.20	0.00	1	Flat	MP-13	1.00		
Raycap	DC9-48-60-24-8C-EV	31.41	10.24	18.28	26.20	120.00	1	Flat	MP-14	1.00		
Raycap	DC9-48-60-24-8C-EV	31.41	10.24	18.28	26.20	240.00	1	Flat	MP-15	1.00		



**TOWER  
ENGINEERING  
PROFESSIONALS**

**CCI BU No. 803175**

**TEP No.** 25666.598873

**Analysis By:** DJM 9/15/2021

**Checked By:** WHW 9/15/2021

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

Member Name	Wind Proj. (in)	Length (in)	Shape	θ (°)	Perimeter (in)
CP-1	2.500	14.62	Flat	30.00	10.00
CP-2	2.500	14.62	Flat	-30.00	10.00
CP-3	2.500	14.61	Flat	90.00	10.00
FFTH-1	3.000	168.00	Flat	90.00	12.00
FFTH-2	3.000	168.00	Flat	30.00	12.00
FFTH-3	3.000	168.00	Flat	-30.00	12.00
GSC1	3.000	48.00	Flat	-60.00	18.00
GSC2	3.000	48.00	Flat	60.00	18.00
GSC3	3.000	48.00	Flat	0.00	18.00
GSOP1	3.000	84.86	Flat	90.00	12.00
GSOP2	3.000	84.86	Flat	30.00	12.00
GSOP3	3.000	84.86	Flat	-30.00	12.00
K1	2.500	93.83	Flat		15.00
K2	2.500	93.83	Flat		15.00
K3	2.500	93.83	Flat		15.00
MP-1	2.875	96.00	Round		5.00
MP-2	2.875	96.00	Round		5.00
MP-3	2.875	96.00	Round		9.03
MP-4	2.875	120.00	Round		9.03
MP-5	2.875	96.00	Round		9.03
MP-6	2.875	96.00	Round		9.03
MP-7	2.875	96.00	Round		9.03
MP-8	2.875	120.00	Round		9.03
MP-9	2.875	96.00	Round		9.03
MP-10	2.875	96.00	Round		9.03
MP-11	2.875	96.00	Round		9.03
MP-12	2.875	120.00	Round		9.03
MP-13	2.375	48.00	Round		7.46
MP-14	2.375	48.00	Round		7.46
MP-15	2.375	48.00	Round		7.46
SA1	4.000	27.00	Flat	0.00	16.00
SA2	4.000	27.00	Flat	-60.00	16.00
SA3	4.000	27.00	Flat	60.00	18.80
SR-1	2.875	174.00	Round	90.00	18.80
SR-2	2.875	174.00	Round	-30.00	18.80
SR-3	2.875	174.00	Round	30.00	9.03
SRB-1	2.375	69.86	Round	30.00	7.46
SRB-2	2.375	69.86	Round	-30.00	7.46

<b>SRB-3</b>	<b>2.375</b>	<b>69.86</b>	<b>Round</b>	<b>90.00</b>	<b>7.46</b>

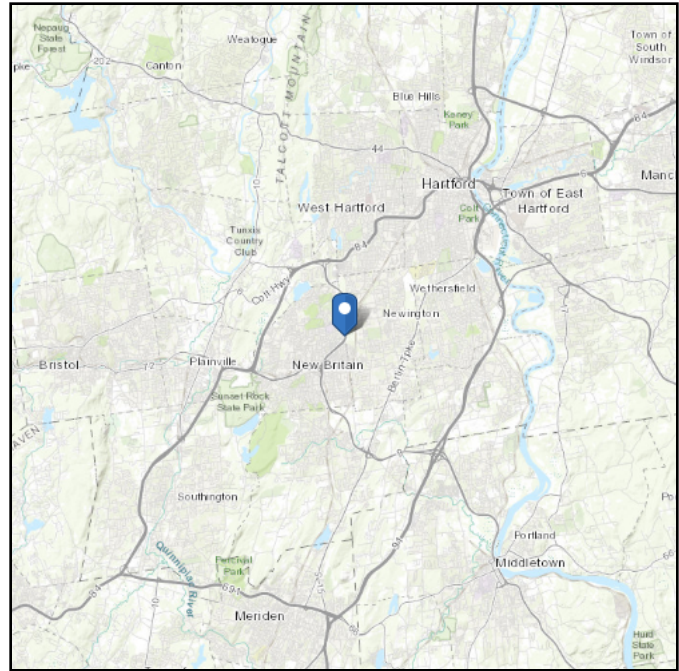
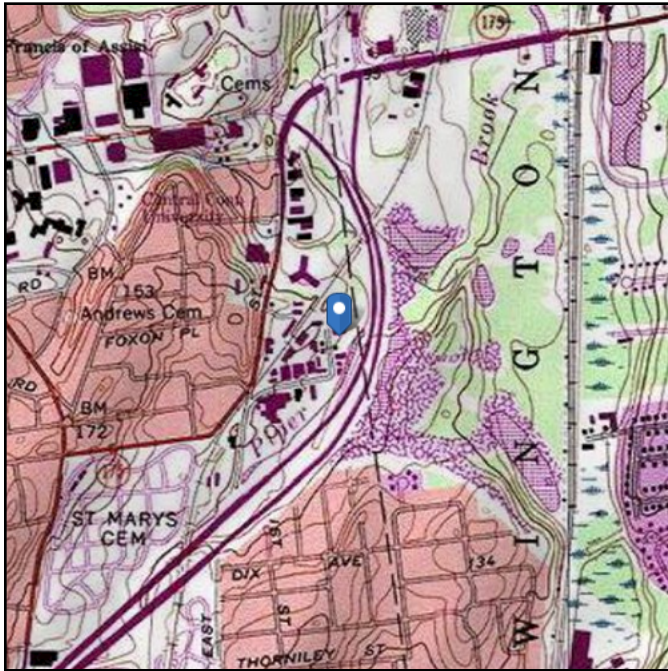


# ASCE 7 Hazards Report

**Address:**  
No Address at This Location

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

**Elevation:** 88.33 ft (NAVD 88)  
**Latitude:** 41.686611  
**Longitude:** -72.757722



## Wind

### Results:

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

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2  
Date Accessed: Thu Sep 09 2021

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

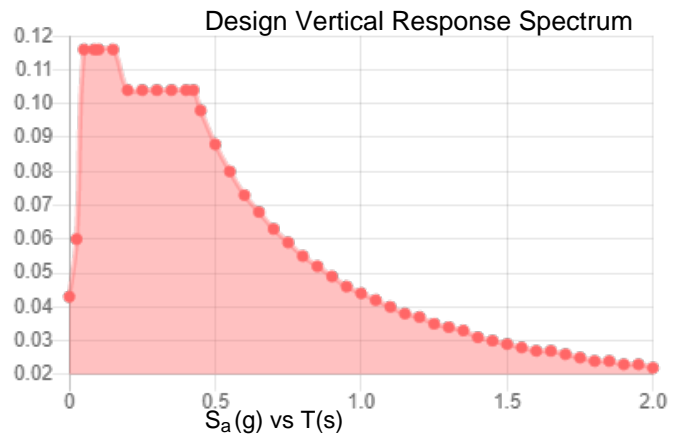
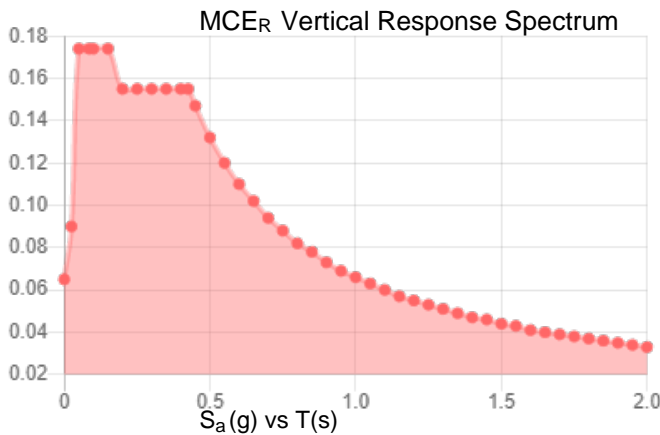
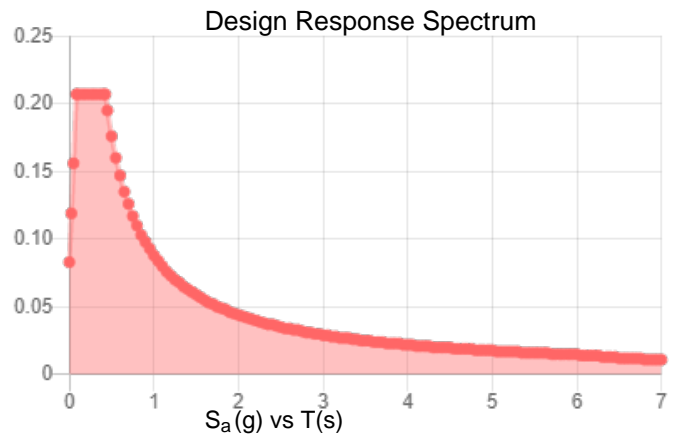
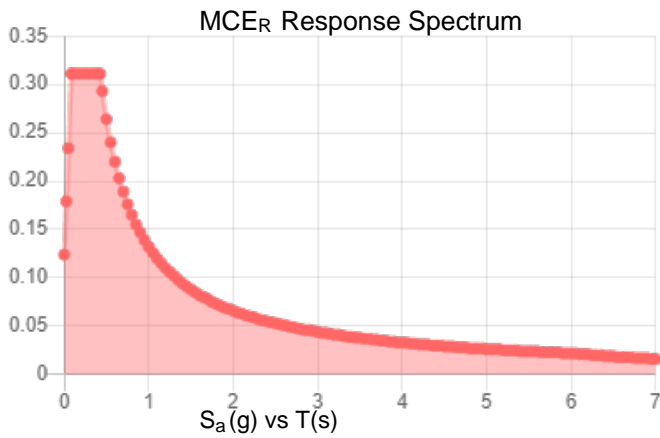
Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

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

**Results:**

$S_S$ :	0.194	$S_{D1}$ :	0.088
$S_1$ :	0.055	$T_L$ :	6
$F_a$ :	1.6	PGA :	0.106
$F_v$ :	2.4	PGA <sub>M</sub> :	0.168
$S_{MS}$ :	0.311	$F_{PGA}$ :	1.589
$S_{M1}$ :	0.132	$I_e$ :	1
$S_{DS}$ :	0.207	$C_v$ :	0.7

**Seismic Design Category** B



**Data Accessed:**

Thu Sep 09 2021

**Date Source:**

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

## Ice

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**Results:**

Ice Thickness: 1.50 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 Sep 09 2021

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

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

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



Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
 Job Number : TEP No. 25666.598873  
 Model Name : CCI BU No. 803175

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**(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	AISI S100-16: LRFD
Wood Code	None
Wood Temperature	< 100F
Concrete Code	None
Masonry Code	None
Aluminum Code	None - Building
Stainless Steel Code	None

Number of Shear Regions	4
Region Spacing Increment (in)	4
Biaxial Column Method	Exact Integration
Parame Beta Factor (PCA)	.65
Concrete Stress Block	Rectangular
Use Cracked Sections?	Yes
Use Cracked Sections Slab?	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



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**(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 (1E5 F)	Density[k/ft^3]	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	Desig...	Material	Design ...	A [in2]	Iy [in4]	Izz [in4]	J [in4]
1	Face Horiz	L3X3X4	None	None	A36 Gr.36	Typical	1.44	1.23	1.23	.031
2	Internal	L3X3X4	None	None	A36 Gr.36	Typical	1.44	1.23	1.23	.031
3	Internal - 2	LL3x3x4x0	None	None	A36 Gr.36	Typical	2.88	4.5	2.46	.063
4	Mount Pipe 2	PIPE 2.0	None	None	A53-B-35	Typical	1.02	.627	.627	1.25
5	Mount Pipe	PIPE 2.5	None	None	A53-B-35	Typical	1.61	1.45	1.45	2.89
6	Handrail	PIPE 2.5	None	None	A53-B-35	Typical	1.61	1.45	1.45	2.89
7	Handrail Brace	PIPE 2.0	None	None	A53-B-35	Typical	1.02	.627	.627	1.25
8	Kicker	LL2.5x2.5x3x0	None	None	A36 Gr.36	Typical	1.8	1.91	1.07	.023
9	Corner Brace	L2.5x2.5x4	None	None	A36 Gr.36	Typical	1.19	.692	.692	.026
10	TR	5/8 Threaded Rod	None	None	A36 Gr.36	Typical	.226	.004	.004	.008
11	TR CXN	PL2x1/2	None	None	A36 Gr.36	Typical	1	.021	.333	.07



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**Material Takeoff**

	Material	Size	Pieces	Length[ft]	Weight[K]
1	General				
2	RIGID		24	6	0
3	Total General		24	6	0
4					
5	Hot Rolled Steel				
6	A36 Gr.36	L2.5x2.5x4	3	3.7	0
7	A36 Gr.36	L3X3X4	6	63.2	.3
8	A36 Gr.36	LL2.5x2.5x3x0	3	23.5	.1
9	A36 Gr.36	LL3x3x4x0	3	12	.1
10	A53-B-35	PIPE 2.0	6	29.5	.1
11	A53-B-35	PIPE 2.5	15	145.5	.8
12	Total HR Steel		36	277.3	1.5
13					
14	Cold Formed Steel				
15	A36	BPL5.375x4x.375	3	6.7	.1
16	Total CF Steel		3	6.7	.1

**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	N55A	Reaction	Reaction	Reaction			
2	N62A	Reaction	Reaction	Reaction			
3	N63A	Reaction	Reaction	Reaction			
4	N98	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
5	N99	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
6	N100	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction

**Member Primary Data**

	Label	I Joint	J Joint	K J...	Rotate(...)	Section/Shape	Type	Desig...	Material	Design...
1	CP-1	N88A	N93		90	Corner Brace	None	None	A36 Gr.36	Typical
2	CP-2	N90A	N89		90	Corner Brace	None	None	A36 Gr.36	Typical
3	CP-3	N92	N91		90	Corner Brace	None	None	A36 Gr.36	Typical
4	FFTH-1	FF2	FF4			Face Horiz	None	None	A36 Gr.36	Typical
5	FFTH-2	SF1-2	FF2			Face Horiz	None	None	A36 Gr.36	Typical
6	FFTH-3	FF4	SF1-2			Face Horiz	None	None	A36 Gr.36	Typical
7	GSC1	FF4	GS17		180	Internal - 2	None	None	A36 Gr.36	Typical
8	GSC2	FF2	GS18		180	Internal - 2	None	None	A36 Gr.36	Typical
9	GSC3	SF1-2	GS19		180	Internal - 2	None	None	A36 Gr.36	Typical
10	GSOP1	GS17	GS18			Internal	None	None	A36 Gr.36	Typical
11	GSOP2	GS18	GS19			Internal	None	None	A36 Gr.36	Typical
12	GSOP3	GS19	GS17			Internal	None	None	A36 Gr.36	Typical
13	K1	N95	N98			Kicker	None	None	A36 Gr.36	Typical
14	K2	N96	N100			Kicker	None	None	A36 Gr.36	Typical
15	K3	N97	N99			Kicker	None	None	A36 Gr.36	Typical
16	M42	N101A	N31			RIGID	None	None	RIGID	Typical
17	M43	N100B	N25			RIGID	None	None	RIGID	Typical
18	M44	N103A	N36			RIGID	None	None	RIGID	Typical
19	M45	N102A	N35			RIGID	None	None	RIGID	Typical
20	M46	N105A	N44			RIGID	None	None	RIGID	Typical



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**Member Primary Data (Continued)**

	Label	I Joint	J Joint	K J...	Rotate(...)	Section/Shape	Type	Desig...	Material	Design...
21	M47	N104A	N43			RIGID	None	None	RIGID	Typical
22	M48	N107A	N111			RIGID	None	None	RIGID	Typical
23	M49	N106A	N110			RIGID	None	None	RIGID	Typical
24	M50	N117	N64			RIGID	None	None	RIGID	Typical
25	M51	N116	N63			RIGID	None	None	RIGID	Typical
26	M52	N119	N103			RIGID	None	None	RIGID	Typical
27	M53	N118	N102			RIGID	None	None	RIGID	Typical
28	M54	N121	N107			RIGID	None	None	RIGID	Typical
29	M55	N120	N106			RIGID	None	None	RIGID	Typical
30	M56	N123	N76			RIGID	None	None	RIGID	Typical
31	M57	N122	N75			RIGID	None	None	RIGID	Typical
32	M58	N133	N48			RIGID	None	None	RIGID	Typical
33	M59	N132	N47			RIGID	None	None	RIGID	Typical
34	M60	N135	N95A			RIGID	None	None	RIGID	Typical
35	M61	N134	N94			RIGID	None	None	RIGID	Typical
36	M62	N137	N99A			RIGID	None	None	RIGID	Typical
37	M63	N136	N98A			RIGID	None	None	RIGID	Typical
38	M64	N139	N60			RIGID	None	None	RIGID	Typical
39	M65	N138	N59			RIGID	None	None	RIGID	Typical
40	MP-1	N34	N38			Mount Pipe	None	None	A53-B-35	Typical
41	MP-2	N37	N38A			Mount Pipe	None	None	A53-B-35	Typical
42	MP-3	N45	N46			Mount Pipe	None	None	A53-B-35	Typical
43	MP-4	N112	N113			Mount Pipe	None	None	A53-B-35	Typical
44	MP-5	N65	N66			Mount Pipe	None	None	A53-B-35	Typical
45	MP-6	N104	N105			Mount Pipe	None	None	A53-B-35	Typical
46	MP-7	N108	N109			Mount Pipe	None	None	A53-B-35	Typical
47	MP-8	N77	N78			Mount Pipe	None	None	A53-B-35	Typical
48	MP-9	N49	N50			Mount Pipe	None	None	A53-B-35	Typical
49	MP-10	N96A	N97A			Mount Pipe	None	None	A53-B-35	Typical
50	MP-11	N100A	N101			Mount Pipe	None	None	A53-B-35	Typical
51	MP-12	N61	N62			Mount Pipe	None	None	A53-B-35	Typical
52	MP-13	N80	N79			Mount Pipe 2	None	None	A53-B-35	Typical
53	MP-14	N84	N83			Mount Pipe 2	None	None	A53-B-35	Typical
54	MP-15	N82	N81			Mount Pipe 2	None	None	A53-B-35	Typical
55	SA1	N55A	SA4		90	Support Arm	Beam	None	A36	Typical
56	SA2	N63A	SA5		90	Support Arm	Beam	None	A36	Typical
57	SA3	N62A	SA6		90	Support Arm	Beam	None	A36	Typical
58	SR-1	N85	N22			Handrail	None	None	A53-B-35	Typical
59	SR-2	X121	X120			Handrail	None	None	A53-B-35	Typical
60	SR-3	X119	X118			Handrail	None	None	A53-B-35	Typical
61	SRB-1	X103	X106			Handrail Brace	None	None	A53-B-35	Typical
62	SRB-2	X101	X104			Handrail Brace	None	None	A53-B-35	Typical
63	SRB-3	X102	X105			Handrail Brace	None	None	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	CP-1						Yes	** NA **		None
2	CP-2						Yes	** NA **		None
3	CP-3						Yes	** NA **		None
4	FFTH-1						Yes	** NA **		None



Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
 Job Number : TEP No. 25666.598873  
 Model Name : CCI BU No. 803175

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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...
5	FFTH-2					Yes	** NA **			None
6	FFTH-3					Yes	** NA **			None
7	GSC1					Yes	** NA **			None
8	GSC2					Yes	** NA **			None
9	GSC3					Yes	** NA **			None
10	GSOP1					Yes	** NA **			None
11	GSOP2					Yes	** NA **			None
12	GSOP3					Yes	** NA **			None
13	K1	BenPIN	BenPIN			Yes	** NA **			None
14	K2	BenPIN	BenPIN			Yes	** NA **			None
15	K3	BenPIN	BenPIN			Yes	** NA **			None
16	M42					Yes	** NA **			None
17	M43					Yes	** NA **			None
18	M44					Yes	** NA **			None
19	M45					Yes	** NA **			None
20	M46					Yes	** NA **			None
21	M47					Yes	** NA **			None
22	M48					Yes	** NA **			None
23	M49					Yes	** NA **			None
24	M50					Yes	** NA **			None
25	M51					Yes	** NA **			None
26	M52					Yes	** NA **			None
27	M53					Yes	** NA **			None
28	M54					Yes	** NA **			None
29	M55					Yes	** NA **			None
30	M56					Yes	** NA **			None
31	M57					Yes	** NA **			None
32	M58					Yes	** NA **			None
33	M59					Yes	** NA **			None
34	M60					Yes	** NA **			None
35	M61					Yes	** NA **			None
36	M62					Yes	** NA **			None
37	M63					Yes	** NA **			None
38	M64					Yes	** NA **			None
39	M65					Yes	** NA **			None
40	MP-1					Yes	** NA **			None
41	MP-2					Yes	** NA **			None
42	MP-3					Yes	** NA **			None
43	MP-4					Yes	** NA **			None
44	MP-5					Yes	** NA **			None
45	MP-6					Yes	** NA **			None
46	MP-7					Yes	** NA **			None
47	MP-8					Yes	** NA **			None
48	MP-9					Yes	** NA **			None
49	MP-10					Yes	** NA **			None
50	MP-11					Yes	** NA **			None
51	MP-12					Yes	** NA **			None
52	MP-13					Yes	** NA **			None
53	MP-14					Yes	** NA **			None
54	MP-15					Yes	** NA **			None
55	SA1	BenPIN				Yes	** NA **			None
56	SA2	BenPIN				Yes	** NA **			None



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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...
57	SA3	BenPIN				Yes	** NA **			None
58	SR-1					Yes	** NA **			None
59	SR-2					Yes	** NA **			None
60	SR-3					Yes	** NA **			None
61	SRB-1	BenPIN	BenPIN			Yes	** NA **			None
62	SRB-2	BenPIN	BenPIN			Yes	** NA **			None
63	SRB-3	BenPIN	BenPIN			Yes	** NA **			None

**Hot Rolled Steel Design Parameters**

Label	Shape	Length[ft]	Lby[ft]	Lbzz[ft]	Lcomp top[...]	Lcomp bot[...]	L-torq...	Kyy	Kzz	Cb	Functi...
1	CP-1	Corner Brace	1.218					1	1		Lateral
2	CP-2	Corner Brace	1.218					1	1		Lateral
3	CP-3	Corner Brace	1.218					1	1		Lateral
4	FFTH-1	Face Horiz	14	7				1	1		Lateral
5	FFTH-2	Face Horiz	14	7				1	1		Lateral
6	FFTH-3	Face Horiz	14	7				1	1		Lateral
7	GSC1	Internal - 2	4					1	1		Lateral
8	GSC2	Internal - 2	4					1	1		Lateral
9	GSC3	Internal - 2	4					1	1		Lateral
10	GSOP1	Internal	7.072	3.5	3.5			1	1		Lateral
11	GSOP2	Internal	7.072	3.5	3.5			1	1		Lateral
12	GSOP3	Internal	7.072	3.5	3.5			1	1		Lateral
13	K1	Kicker	7.819					1	1		Lateral
14	K2	Kicker	7.819					1	1		Lateral
15	K3	Kicker	7.819					1	1		Lateral
16	MP-1	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
17	MP-2	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
18	MP-3	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
19	MP-4	Mount Pipe	10	Segment	Segment			2.1	2.1		Lateral
20	MP-5	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
21	MP-6	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
22	MP-7	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
23	MP-8	Mount Pipe	10	Segment	Segment			2.1	2.1		Lateral
24	MP-9	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
25	MP-10	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
26	MP-11	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
27	MP-12	Mount Pipe	10	Segment	Segment			2.1	2.1		Lateral
28	MP-13	Mount Pipe 2	4	Segment	Segment			2.1	2.1		Lateral
29	MP-14	Mount Pipe 2	4	Segment	Segment			2.1	2.1		Lateral
30	MP-15	Mount Pipe 2	4	Segment	Segment			2.1	2.1		Lateral
31	SR-1	Handrail	14.5	5.738				2.1	2.1		Lateral
32	SR-2	Handrail	14.5	5.738				2.1	2.1		Lateral
33	SR-3	Handrail	14.5	5.738				2.1	2.1		Lateral
34	SRB-1	Handrail Brace	5.821					1	1		Lateral
35	SRB-2	Handrail Brace	5.821					1	1		Lateral
36	SRB-3	Handrail Brace	5.821					1	1		Lateral







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**Load Combinations (Continued)**

Description	S...	PDel...	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...
59	1.2D+1.5Lm+1.0	180-Wind	Y..	Y	1	1.2	10	065	35	1.5										
60	1.2D+1.5Lm+1.0	210-Wind	Y..	Y	1	1.2	11	065	35	1.5										
61	1.2D+1.5Lm+1.0	225-Wind	Y..	Y	1	1.2	12	065	35	1.5										
62	1.2D+1.5Lm+1.0	240-Wind	Y..	Y	1	1.2	13	065	35	1.5										
63	1.2D+1.5Lm+1.0	270-Wind	Y..	Y	1	1.2	14	065	35	1.5										
64	1.2D+1.5Lm+1.0	300-Wind	Y..	Y	1	1.2	15	065	35	1.5										
65	1.2D+1.5Lm+1.0	315-Wind	Y..	Y	1	1.2	16	065	35	1.5										
66	1.2D+1.5Lm+1.0	330-Wind	Y..	Y	1	1.2	17	065	35	1.5										
67	(1.2+0.2Sds)D+1.0	0 Seismic	Y..	Y	1	1...	E...	103	0											
68	(1.2+0.2Sds)D+1.0	30 Seismic	Y..	Y	1	1...	E...	09	E...	052										
69	(1.2+0.2Sds)D+1.0	45 Seismic	Y..	Y	1	1...	E...	073	E...	073										
70	(1.2+0.2Sds)D+1.0	60 Seismic	Y..	Y	1	1...	E...	052	E...	09										
71	(1.2+0.2Sds)D+1.0	90 Seismic	Y..	Y	1	1...	E...	0	E...	103										
72	(1.2+0.2Sds)D+1.0	120 Seismic	Y..	Y	1	1...	E...	-0.	E...	09										
73	(1.2+0.2Sds)D+1.0	135 Seismic	Y..	Y	1	1...	E...	-0.	E...	073										
74	(1.2+0.2Sds)D+1.0	150 Seismic	Y..	Y	1	1...	E...	-09	E...	052										
75	(1.2+0.2Sds)D+1.0	180 Seismic	Y..	Y	1	1...	E...	-1.	E...	0										
76	(1.2+0.2Sds)D+1.0	210 Seismic	Y..	Y	1	1...	E...	-09	E...	-0.										
77	(1.2+0.2Sds)D+1.0	225 Seismic	Y..	Y	1	1...	E...	-0.	E...	-0.										
78	(1.2+0.2Sds)D+1.0	240 Seismic	Y..	Y	1	1...	E...	-0.	E...	-09										
79	(1.2+0.2Sds)D+1.0	270 Seismic	Y..	Y	1	1...	E...	0	E...	-1.										
80	(1.2+0.2Sds)D+1.0	300 Seismic	Y..	Y	1	1...	E...	052	E...	-09										
81	(1.2+0.2Sds)D+1.0	315 Seismic	Y..	Y	1	1...	E...	073	E...	-0.										
82	(1.2+0.2Sds)D+1.0	330 Seismic	Y..	Y	1	1...	E...	09	E...	-0.										
83	(0.9-0.2Sds)*DL+1.0	0 Seismic	Y..	Y	1	859	E...	103	0											
84	(0.9-0.2Sds)*DL+1.0	30 Seismic	Y..	Y	1	859	E...	09	E...	052										
85	(0.9-0.2Sds)*DL+1.0	60 Seismic	Y..	Y	1	859	E...	073	E...	073										
86	(0.9-0.2Sds)*DL+1.0	90 Seismic	Y..	Y	1	859	E...	052	E...	09										
87	(0.9-0.2Sds)*DL+1.0	120 Seismic	Y..	Y	1	859	E...	0	E...	103										
88	(0.9-0.2Sds)*DL+1.0	135 Seismic	Y..	Y	1	859	E...	-0.	E...	09										
89	(0.9-0.2Sds)*DL+1.0	150 Seismic	Y..	Y	1	859	E...	-0.	E...	073										
90	(0.9-0.2Sds)*DL+1.0	180 Seismic	Y..	Y	1	859	E...	-09	E...	052										
91	(0.9-0.2Sds)*DL+1.0	210 Seismic	Y..	Y	1	859	E...	-1.	E...	0										
92	(0.9-0.2Sds)*DL+1.0	225 Seismic	Y..	Y	1	859	E...	-09	E...	-0.										
93	(0.9-0.2Sds)*DL+1.0	240 Seismic	Y..	Y	1	859	E...	-0.	E...	-0.										
94	(0.9-0.2Sds)*DL+1.0	270 Seismic	Y..	Y	1	859	E...	-0.	E...	-09										
95	(0.9-0.2Sds)*DL+1.0	300 Seismic	Y..	Y	1	859	E...	052	E...	-09										
96	(0.9-0.2Sds)*DL+1.0	315 Seismic	Y..	Y	1	859	E...	073	E...	-0.										
97	(0.9-0.2Sds)*DL+1.0	330 Seismic	Y..	Y	1	859	E...	09	E...	-0.										

**Joint Loads and Enforced Displacements (BLC 35 : Lm)**

Joint Label	L,D,M	Direction	Magnitude(k,k-ft), (in,rad), (k*s^2/f...	
1	N25	L	Y	-5

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

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



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

Member Label	Direction	Magnitude(k,k-ft)	Location(ft,%)	
1	MP-2	Y	-054	1
2	MP-2	Y	-06	2
3	MP-2	Y	-044	2
4	MP-2	Y	-053	4
5	MP-3	Y	-042	1
6	MP-3	Y	-033	4
7	MP-4	Y	-038	1
8	MP-4	Y	-071	2
9	MP-4	Y	-053	2
10	MP-6	Y	-065	1
11	MP-6	Y	-06	2
12	MP-6	Y	-044	2
13	MP-6	Y	-053	4
14	MP-7	Y	-042	1
15	MP-7	Y	-033	4
16	MP-8	Y	-045	1
17	MP-8	Y	-071	2
18	MP-8	Y	-053	2
19	MP-10	Y	-065	1
20	MP-10	Y	-06	2
21	MP-10	Y	-044	2
22	MP-10	Y	-053	4
23	MP-11	Y	-042	1
24	MP-11	Y	-033	4
25	MP-12	Y	-045	1
26	MP-12	Y	-071	2
27	MP-12	Y	-053	2
28	MP-13	Y	-026	1
29	MP-14	Y	-026	1
30	MP-15	Y	-026	1
31	MP-2	Y	-054	5
32	MP-3	Y	-042	3
33	MP-3	Y	-033	6
34	MP-4	Y	-038	4.5
35	MP-6	Y	-065	5
36	MP-7	Y	-042	3
37	MP-7	Y	-033	6
38	MP-8	Y	-045	4.5
39	MP-10	Y	-065	5
40	MP-11	Y	-042	3
41	MP-11	Y	-033	6
42	MP-12	Y	-045	4.5

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

Member Label	Direction	Magnitude(k,k-ft)	Location(ft,%)	
1	MP-2	X	-205	1
2	MP-2	X	-047	2
3	MP-2	X	-03	2
4	MP-2	X	-073	4
5	MP-3	X	-088	1



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
6	MP-3	X	-0.79	4
7	MP-4	X	-1.62	1
8	MP-4	X	-0.62	2
9	MP-4	X	-0.73	2
10	MP-6	X	-1.87	1
11	MP-6	X	-0.72	2
12	MP-6	X	-0.62	2
13	MP-6	X	-0.85	4
14	MP-7	X	-0.67	1
15	MP-7	X	-0.47	4
16	MP-8	X	-0.14	1
17	MP-8	X	-0.08	2
18	MP-8	X	-1.09	2
19	MP-10	X	-1.87	1
20	MP-10	X	-0.72	2
21	MP-10	X	-0.62	2
22	MP-10	X	-0.85	4
23	MP-11	X	-0.67	1
24	MP-11	X	-0.47	4
25	MP-12	X	-0.14	1
26	MP-12	X	-0.08	2
27	MP-12	X	-1.09	2
28	MP-13	X	-0.12	1
29	MP-14	X	-1.88	1
30	MP-15	X	-1.88	1
31	MP-2	X	-2.05	5
32	MP-3	X	-0.88	3
33	MP-3	X	-0.79	6
34	MP-4	X	-1.62	4.5
35	MP-6	X	-1.87	5
36	MP-7	X	-0.67	3
37	MP-7	X	-0.47	6
38	MP-8	X	-0.14	4.5
39	MP-10	X	-1.87	5
40	MP-11	X	-0.67	3
41	MP-11	X	-0.47	6
42	MP-12	X	-0.14	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-1.41	1
2	MP-2	X	-0.48	2
3	MP-2	X	-0.35	2
4	MP-2	X	-0.74	4
5	MP-3	X	-0.67	1
6	MP-3	X	-0.54	4
7	MP-4	X	-1.06	1
8	MP-4	X	-0.59	2
9	MP-4	X	-0.74	2
10	MP-6	X	-0.13	1
11	MP-6	X	-0.07	2



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
12	MP-6	X	-0.63	2
13	MP-6	X	-0.64	4
14	MP-7	X	-0.52	1
15	MP-7	X	-0.32	4
16	MP-8	X	-0.85	1
17	MP-8	X	-0.75	2
18	MP-8	X	-1.04	2
19	MP-10	X	-2.26	1
20	MP-10	X	-0.48	2
21	MP-10	X	-0.35	2
22	MP-10	X	-0.94	4
23	MP-11	X	-0.71	1
24	MP-11	X	-0.06	4
25	MP-12	X	-1.92	1
26	MP-12	X	-0.59	2
27	MP-12	X	-0.74	2
28	MP-13	X	-1.24	1
29	MP-14	X	-1.82	1
30	MP-15	X	-1.24	1
31	MP-2	X	-1.41	5
32	MP-3	X	-0.67	3
33	MP-3	X	-0.54	6
34	MP-4	X	-1.06	4.5
35	MP-6	X	-0.13	5
36	MP-7	X	-0.52	3
37	MP-7	X	-0.32	6
38	MP-8	X	-0.85	4.5
39	MP-10	X	-2.26	5
40	MP-11	X	-0.71	3
41	MP-11	X	-0.06	6
42	MP-12	X	-1.92	4.5
43	MP-2	Z	-0.82	1
44	MP-2	Z	-0.28	2
45	MP-2	Z	-0.02	2
46	MP-2	Z	-0.43	4
47	MP-3	Z	-0.39	1
48	MP-3	Z	-0.31	4
49	MP-4	Z	-0.61	1
50	MP-4	Z	-0.34	2
51	MP-4	Z	-0.43	2
52	MP-6	Z	-0.75	1
53	MP-6	Z	-0.41	2
54	MP-6	Z	-0.36	2
55	MP-6	Z	-0.37	4
56	MP-7	Z	-0.03	1
57	MP-7	Z	-0.18	4
58	MP-8	Z	-0.49	1
59	MP-8	Z	-0.43	2
60	MP-8	Z	-0.06	2
61	MP-10	Z	-1.31	1
62	MP-10	Z	-0.28	2
63	MP-10	Z	-0.02	2



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
64	MP-10	Z	-054	4
65	MP-11	Z	-041	1
66	MP-11	Z	-035	4
67	MP-12	Z	-111	1
68	MP-12	Z	-034	2
69	MP-12	Z	-043	2
70	MP-13	Z	-071	1
71	MP-14	Z	-105	1
72	MP-15	Z	-071	1
73	MP-2	Z	-082	5
74	MP-3	Z	-039	3
75	MP-3	Z	-031	6
76	MP-4	Z	-061	4.5
77	MP-6	Z	-075	5
78	MP-7	Z	-03	3
79	MP-7	Z	-018	6
80	MP-8	Z	-049	4.5
81	MP-10	Z	-131	5
82	MP-11	Z	-041	3
83	MP-11	Z	-035	6
84	MP-12	Z	-111	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-096	1
2	MP-2	X	-045	2
3	MP-2	X	-036	2
4	MP-2	X	-069	4
5	MP-3	X	-049	1
6	MP-3	X	-036	4
7	MP-4	X	-068	1
8	MP-4	X	-053	2
9	MP-4	X	-068	2
10	MP-6	X	-113	1
11	MP-6	X	-056	2
12	MP-6	X	-049	2
13	MP-6	X	-054	4
14	MP-7	X	-044	1
15	MP-7	X	-028	4
16	MP-8	X	-077	1
17	MP-8	X	-06	2
18	MP-8	X	-083	2
19	MP-10	X	-204	1
20	MP-10	X	-035	2
21	MP-10	X	-023	2
22	MP-10	X	-083	4
23	MP-11	X	-062	1
24	MP-11	X	-055	4
25	MP-12	X	-178	1
26	MP-12	X	-045	2
27	MP-12	X	-054	2



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
28	MP-13	X	-117	1
29	MP-14	X	-145	1
30	MP-15	X	-089	1
31	MP-2	X	-096	5
32	MP-3	X	-049	3
33	MP-3	X	-036	6
34	MP-4	X	-068	4.5
35	MP-6	X	-113	5
36	MP-7	X	-044	3
37	MP-7	X	-028	6
38	MP-8	X	-077	4.5
39	MP-10	X	-204	5
40	MP-11	X	-062	3
41	MP-11	X	-055	6
42	MP-12	X	-178	4.5
43	MP-2	Z	-096	1
44	MP-2	Z	-045	2
45	MP-2	Z	-036	2
46	MP-2	Z	-069	4
47	MP-3	Z	-049	1
48	MP-3	Z	-036	4
49	MP-4	Z	-068	1
50	MP-4	Z	-053	2
51	MP-4	Z	-068	2
52	MP-6	Z	-113	1
53	MP-6	Z	-056	2
54	MP-6	Z	-049	2
55	MP-6	Z	-054	4
56	MP-7	Z	-044	1
57	MP-7	Z	-028	4
58	MP-8	Z	-077	1
59	MP-8	Z	-06	2
60	MP-8	Z	-083	2
61	MP-10	Z	-204	1
62	MP-10	Z	-035	2
63	MP-10	Z	-023	2
64	MP-10	Z	-083	4
65	MP-11	Z	-062	1
66	MP-11	Z	-055	4
67	MP-12	Z	-178	1
68	MP-12	Z	-045	2
69	MP-12	Z	-054	2
70	MP-13	Z	-117	1
71	MP-14	Z	-145	1
72	MP-15	Z	-089	1
73	MP-2	Z	-096	5
74	MP-3	Z	-049	3
75	MP-3	Z	-036	6
76	MP-4	Z	-068	4.5
77	MP-6	Z	-113	5
78	MP-7	Z	-044	3
79	MP-7	Z	-028	6



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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
80	MP-8	Z	-0.77	4.5
81	MP-10	Z	-2.04	5
82	MP-11	Z	-0.62	3
83	MP-11	Z	-0.55	6
84	MP-12	Z	-1.78	4.5

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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
1	MP-2	X	-0.56	1
2	MP-2	X	-0.36	2
3	MP-2	X	-0.31	2
4	MP-2	X	-0.54	4
5	MP-3	X	-0.32	1
6	MP-3	X	-0.21	4
7	MP-4	X	-0.37	1
8	MP-4	X	-0.4	2
9	MP-4	X	-0.54	2
10	MP-6	X	-0.93	1
11	MP-6	X	-0.36	2
12	MP-6	X	-0.31	2
13	MP-6	X	-0.43	4
14	MP-7	X	-0.34	1
15	MP-7	X	-0.24	4
16	MP-8	X	-0.7	1
17	MP-8	X	-0.4	2
18	MP-8	X	-0.54	2
19	MP-10	X	-1.49	1
20	MP-10	X	-0.23	2
21	MP-10	X	-0.15	2
22	MP-10	X	-0.6	4
23	MP-11	X	-0.45	1
24	MP-11	X	-0.4	4
25	MP-12	X	-1.31	1
26	MP-12	X	-0.31	2
27	MP-12	X	-0.37	2
28	MP-13	X	-0.94	1
29	MP-14	X	-0.94	1
30	MP-15	X	-0.6	1
31	MP-2	X	-0.56	5
32	MP-3	X	-0.32	3
33	MP-3	X	-0.21	6
34	MP-4	X	-0.37	4.5
35	MP-6	X	-0.93	5
36	MP-7	X	-0.34	3
37	MP-7	X	-0.24	6
38	MP-8	X	-0.7	4.5
39	MP-10	X	-1.49	5
40	MP-11	X	-0.45	3
41	MP-11	X	-0.4	6
42	MP-12	X	-1.31	4.5
43	MP-2	Z	-0.98	1



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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
44	MP-2	Z	-0.63	2
45	MP-2	Z	-0.53	2
46	MP-2	Z	-0.94	4
47	MP-3	Z	-0.55	1
48	MP-3	Z	-0.36	4
49	MP-4	Z	-0.64	1
50	MP-4	Z	-0.7	2
51	MP-4	Z	-0.94	2
52	MP-6	Z	-1.62	1
53	MP-6	Z	-0.63	2
54	MP-6	Z	-0.53	2
55	MP-6	Z	-0.74	4
56	MP-7	Z	-0.58	1
57	MP-7	Z	-0.41	4
58	MP-8	Z	-1.21	1
59	MP-8	Z	-0.7	2
60	MP-8	Z	-0.94	2
61	MP-10	Z	-2.59	1
62	MP-10	Z	-0.4	2
63	MP-10	Z	-0.26	2
64	MP-10	Z	-1.05	4
65	MP-11	Z	-0.77	1
66	MP-11	Z	-0.7	4
67	MP-12	Z	-2.27	1
68	MP-12	Z	-0.54	2
69	MP-12	Z	-0.64	2
70	MP-13	Z	-1.63	1
71	MP-14	Z	-1.63	1
72	MP-15	Z	-1.04	1
73	MP-2	Z	-0.98	5
74	MP-3	Z	-0.55	3
75	MP-3	Z	-0.36	6
76	MP-4	Z	-0.64	4.5
77	MP-6	Z	-1.62	5
78	MP-7	Z	-0.58	3
79	MP-7	Z	-0.41	6
80	MP-8	Z	-1.21	4.5
81	MP-10	Z	-2.59	5
82	MP-11	Z	-0.77	3
83	MP-11	Z	-0.7	6
84	MP-12	Z	-2.27	4.5

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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
1	MP-2	Z	-1.04	1
2	MP-2	Z	-0.81	2
3	MP-2	Z	-0.72	2
4	MP-2	Z	-1.21	4
5	MP-3	Z	-0.61	1
6	MP-3	Z	-0.38	4
7	MP-4	Z	-0.65	1



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
8	MP-4	Z	-087	2
9	MP-4	Z	-12	2
10	MP-6	Z	-262	1
11	MP-6	Z	-055	2
12	MP-6	Z	-041	2
13	MP-6	Z	-109	4
14	MP-7	Z	-082	1
15	MP-7	Z	-07	4
16	MP-8	Z	-222	1
17	MP-8	Z	-068	2
18	MP-8	Z	-085	2
19	MP-10	Z	-262	1
20	MP-10	Z	-055	2
21	MP-10	Z	-041	2
22	MP-10	Z	-109	4
23	MP-11	Z	-082	1
24	MP-11	Z	-07	4
25	MP-12	Z	-222	1
26	MP-12	Z	-068	2
27	MP-12	Z	-085	2
28	MP-13	Z	-211	1
29	MP-14	Z	-143	1
30	MP-15	Z	-143	1
31	MP-2	Z	-104	5
32	MP-3	Z	-061	3
33	MP-3	Z	-038	6
34	MP-4	Z	-065	4.5
35	MP-6	Z	-262	5
36	MP-7	Z	-082	3
37	MP-7	Z	-07	6
38	MP-8	Z	-222	4.5
39	MP-10	Z	-262	5
40	MP-11	Z	-082	3
41	MP-11	Z	-07	6
42	MP-12	Z	-222	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.072	1
2	MP-2	X	.036	2
3	MP-2	X	.031	2
4	MP-2	X	.054	4
5	MP-3	X	.036	1
6	MP-3	X	.027	4
7	MP-4	X	.052	1
8	MP-4	X	.04	2
9	MP-4	X	.054	2
10	MP-6	X	.149	1
11	MP-6	X	.023	2
12	MP-6	X	.015	2
13	MP-6	X	.06	4



Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
 Job Number : TEP No. 25666.598873  
 Model Name : CCI BU No. 803175

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
14	MP-7	X	.045	1
15	MP-7	X	.04	4
16	MP-8	X	.131	1
17	MP-8	X	.031	2
18	MP-8	X	.037	2
19	MP-10	X	.093	1
20	MP-10	X	.036	2
21	MP-10	X	.031	2
22	MP-10	X	.043	4
23	MP-11	X	.034	1
24	MP-11	X	.024	4
25	MP-12	X	.07	1
26	MP-12	X	.04	2
27	MP-12	X	.054	2
28	MP-13	X	.094	1
29	MP-14	X	.06	1
30	MP-15	X	.094	1
31	MP-2	X	.072	5
32	MP-3	X	.036	3
33	MP-3	X	.027	6
34	MP-4	X	.052	4.5
35	MP-6	X	.149	5
36	MP-7	X	.045	3
37	MP-7	X	.04	6
38	MP-8	X	.131	4.5
39	MP-10	X	.093	5
40	MP-11	X	.034	3
41	MP-11	X	.024	6
42	MP-12	X	.07	4.5
43	MP-2	Z	-.125	1
44	MP-2	Z	-.063	2
45	MP-2	Z	-.053	2
46	MP-2	Z	-.094	4
47	MP-3	Z	-.062	1
48	MP-3	Z	-.047	4
49	MP-4	Z	-.09	1
50	MP-4	Z	-.07	2
51	MP-4	Z	-.094	2
52	MP-6	Z	-.259	1
53	MP-6	Z	-.04	2
54	MP-6	Z	-.026	2
55	MP-6	Z	-.105	4
56	MP-7	Z	-.077	1
57	MP-7	Z	-.07	4
58	MP-8	Z	-.227	1
59	MP-8	Z	-.054	2
60	MP-8	Z	-.064	2
61	MP-10	Z	-.162	1
62	MP-10	Z	-.063	2
63	MP-10	Z	-.053	2
64	MP-10	Z	-.074	4
65	MP-11	Z	-.058	1



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
66	MP-11	Z	-.041	4
67	MP-12	Z	-.121	1
68	MP-12	Z	-.07	2
69	MP-12	Z	-.094	2
70	MP-13	Z	-.163	1
71	MP-14	Z	-.104	1
72	MP-15	Z	-.163	1
73	MP-2	Z	-.125	5
74	MP-3	Z	-.062	3
75	MP-3	Z	-.047	6
76	MP-4	Z	-.09	4.5
77	MP-6	Z	-.259	5
78	MP-7	Z	-.077	3
79	MP-7	Z	-.07	6
80	MP-8	Z	-.227	4.5
81	MP-10	Z	-.162	5
82	MP-11	Z	-.058	3
83	MP-11	Z	-.041	6
84	MP-12	Z	-.121	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.122	1
2	MP-2	X	.045	2
3	MP-2	X	.036	2
4	MP-2	X	.069	4
5	MP-3	X	.056	1
6	MP-3	X	.047	4
7	MP-4	X	.092	1
8	MP-4	X	.053	2
9	MP-4	X	.068	2
10	MP-6	X	.204	1
11	MP-6	X	.035	2
12	MP-6	X	.023	2
13	MP-6	X	.083	4
14	MP-7	X	.062	1
15	MP-7	X	.055	4
16	MP-8	X	.178	1
17	MP-8	X	.045	2
18	MP-8	X	.054	2
19	MP-10	X	.113	1
20	MP-10	X	.056	2
21	MP-10	X	.049	2
22	MP-10	X	.054	4
23	MP-11	X	.044	1
24	MP-11	X	.028	4
25	MP-12	X	.077	1
26	MP-12	X	.06	2
27	MP-12	X	.083	2
28	MP-13	X	.117	1
29	MP-14	X	.089	1



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
30	MP-15	X	.145	1
31	MP-2	X	.122	5
32	MP-3	X	.056	3
33	MP-3	X	.047	6
34	MP-4	X	.092	4.5
35	MP-6	X	.204	5
36	MP-7	X	.062	3
37	MP-7	X	.055	6
38	MP-8	X	.178	4.5
39	MP-10	X	.113	5
40	MP-11	X	.044	3
41	MP-11	X	.028	6
42	MP-12	X	.077	4.5
43	MP-2	Z	-.122	1
44	MP-2	Z	-.045	2
45	MP-2	Z	-.036	2
46	MP-2	Z	-.069	4
47	MP-3	Z	-.056	1
48	MP-3	Z	-.047	4
49	MP-4	Z	-.092	1
50	MP-4	Z	-.053	2
51	MP-4	Z	-.068	2
52	MP-6	Z	-.204	1
53	MP-6	Z	-.035	2
54	MP-6	Z	-.023	2
55	MP-6	Z	-.083	4
56	MP-7	Z	-.062	1
57	MP-7	Z	-.055	4
58	MP-8	Z	-.178	1
59	MP-8	Z	-.045	2
60	MP-8	Z	-.054	2
61	MP-10	Z	-.113	1
62	MP-10	Z	-.056	2
63	MP-10	Z	-.049	2
64	MP-10	Z	-.054	4
65	MP-11	Z	-.044	1
66	MP-11	Z	-.028	4
67	MP-12	Z	-.077	1
68	MP-12	Z	-.06	2
69	MP-12	Z	-.083	2
70	MP-13	Z	-.117	1
71	MP-14	Z	-.089	1
72	MP-15	Z	-.145	1
73	MP-2	Z	-.122	5
74	MP-3	Z	-.056	3
75	MP-3	Z	-.047	6
76	MP-4	Z	-.092	4.5
77	MP-6	Z	-.204	5
78	MP-7	Z	-.062	3
79	MP-7	Z	-.055	6
80	MP-8	Z	-.178	4.5
81	MP-10	Z	-.113	5



Company : Tower Engineering Professionals, Inc.  
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**Member Point Loads (BLC 8 : 135 Wind - No Ice) (Continued)**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
82	MP-11	Z	-.044	3
83	MP-11	Z	-.028	6
84	MP-12	Z	-.077	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.169	1
2	MP-2	X	.048	2
3	MP-2	X	.035	2
4	MP-2	X	.074	4
5	MP-3	X	.074	1
6	MP-3	X	.065	4
7	MP-4	X	.132	1
8	MP-4	X	.059	2
9	MP-4	X	.074	2
10	MP-6	X	.226	1
11	MP-6	X	.048	2
12	MP-6	X	.035	2
13	MP-6	X	.094	4
14	MP-7	X	.071	1
15	MP-7	X	.06	4
16	MP-8	X	.192	1
17	MP-8	X	.059	2
18	MP-8	X	.074	2
19	MP-10	X	.13	1
20	MP-10	X	.07	2
21	MP-10	X	.063	2
22	MP-10	X	.064	4
23	MP-11	X	.052	1
24	MP-11	X	.032	4
25	MP-12	X	.085	1
26	MP-12	X	.075	2
27	MP-12	X	.104	2
28	MP-13	X	.124	1
29	MP-14	X	.124	1
30	MP-15	X	.182	1
31	MP-2	X	.169	5
32	MP-3	X	.074	3
33	MP-3	X	.065	6
34	MP-4	X	.132	4.5
35	MP-6	X	.226	5
36	MP-7	X	.071	3
37	MP-7	X	.06	6
38	MP-8	X	.192	4.5
39	MP-10	X	.13	5
40	MP-11	X	.052	3
41	MP-11	X	.032	6
42	MP-12	X	.085	4.5
43	MP-2	Z	-.098	1
44	MP-2	Z	-.028	2
45	MP-2	Z	-.02	2



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
46	MP-2	Z	-.043	4
47	MP-3	Z	-.043	1
48	MP-3	Z	-.038	4
49	MP-4	Z	-.076	1
50	MP-4	Z	-.034	2
51	MP-4	Z	-.043	2
52	MP-6	Z	-.131	1
53	MP-6	Z	-.028	2
54	MP-6	Z	-.02	2
55	MP-6	Z	-.054	4
56	MP-7	Z	-.041	1
57	MP-7	Z	-.035	4
58	MP-8	Z	-.111	1
59	MP-8	Z	-.034	2
60	MP-8	Z	-.043	2
61	MP-10	Z	-.075	1
62	MP-10	Z	-.041	2
63	MP-10	Z	-.036	2
64	MP-10	Z	-.037	4
65	MP-11	Z	-.03	1
66	MP-11	Z	-.018	4
67	MP-12	Z	-.049	1
68	MP-12	Z	-.043	2
69	MP-12	Z	-.06	2
70	MP-13	Z	-.071	1
71	MP-14	Z	-.071	1
72	MP-15	Z	-.105	1
73	MP-2	Z	-.098	5
74	MP-3	Z	-.043	3
75	MP-3	Z	-.038	6
76	MP-4	Z	-.076	4.5
77	MP-6	Z	-.131	5
78	MP-7	Z	-.041	3
79	MP-7	Z	-.035	6
80	MP-8	Z	-.111	4.5
81	MP-10	Z	-.075	5
82	MP-11	Z	-.03	3
83	MP-11	Z	-.018	6
84	MP-12	Z	-.049	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.205	1
2	MP-2	X	.047	2
3	MP-2	X	.03	2
4	MP-2	X	.073	4
5	MP-3	X	.088	1
6	MP-3	X	.079	4
7	MP-4	X	.162	1
8	MP-4	X	.062	2
9	MP-4	X	.073	2



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
10	MP-6	X	.187	1
11	MP-6	X	.072	2
12	MP-6	X	.062	2
13	MP-6	X	.085	4
14	MP-7	X	.067	1
15	MP-7	X	.047	4
16	MP-8	X	.14	1
17	MP-8	X	.08	2
18	MP-8	X	.109	2
19	MP-10	X	.187	1
20	MP-10	X	.072	2
21	MP-10	X	.062	2
22	MP-10	X	.085	4
23	MP-11	X	.067	1
24	MP-11	X	.047	4
25	MP-12	X	.14	1
26	MP-12	X	.08	2
27	MP-12	X	.109	2
28	MP-13	X	.12	1
29	MP-14	X	.188	1
30	MP-15	X	.188	1
31	MP-2	X	.205	5
32	MP-3	X	.088	3
33	MP-3	X	.079	6
34	MP-4	X	.162	4.5
35	MP-6	X	.187	5
36	MP-7	X	.067	3
37	MP-7	X	.047	6
38	MP-8	X	.14	4.5
39	MP-10	X	.187	5
40	MP-11	X	.067	3
41	MP-11	X	.047	6
42	MP-12	X	.14	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.141	1
2	MP-2	X	.048	2
3	MP-2	X	.035	2
4	MP-2	X	.074	4
5	MP-3	X	.067	1
6	MP-3	X	.054	4
7	MP-4	X	.106	1
8	MP-4	X	.059	2
9	MP-4	X	.074	2
10	MP-6	X	.13	1
11	MP-6	X	.07	2
12	MP-6	X	.063	2
13	MP-6	X	.064	4
14	MP-7	X	.052	1
15	MP-7	X	.032	4



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
16	MP-8	X	.085	1
17	MP-8	X	.075	2
18	MP-8	X	.104	2
19	MP-10	X	.226	1
20	MP-10	X	.048	2
21	MP-10	X	.035	2
22	MP-10	X	.094	4
23	MP-11	X	.071	1
24	MP-11	X	.06	4
25	MP-12	X	.192	1
26	MP-12	X	.059	2
27	MP-12	X	.074	2
28	MP-13	X	.124	1
29	MP-14	X	.182	1
30	MP-15	X	.124	1
31	MP-2	X	.141	5
32	MP-3	X	.067	3
33	MP-3	X	.054	6
34	MP-4	X	.106	4.5
35	MP-6	X	.13	5
36	MP-7	X	.052	3
37	MP-7	X	.032	6
38	MP-8	X	.085	4.5
39	MP-10	X	.226	5
40	MP-11	X	.071	3
41	MP-11	X	.06	6
42	MP-12	X	.192	4.5
43	MP-2	Z	.082	1
44	MP-2	Z	.028	2
45	MP-2	Z	.02	2
46	MP-2	Z	.043	4
47	MP-3	Z	.039	1
48	MP-3	Z	.031	4
49	MP-4	Z	.061	1
50	MP-4	Z	.034	2
51	MP-4	Z	.043	2
52	MP-6	Z	.075	1
53	MP-6	Z	.041	2
54	MP-6	Z	.036	2
55	MP-6	Z	.037	4
56	MP-7	Z	.03	1
57	MP-7	Z	.018	4
58	MP-8	Z	.049	1
59	MP-8	Z	.043	2
60	MP-8	Z	.06	2
61	MP-10	Z	.131	1
62	MP-10	Z	.028	2
63	MP-10	Z	.02	2
64	MP-10	Z	.054	4
65	MP-11	Z	.041	1
66	MP-11	Z	.035	4
67	MP-12	Z	.111	1





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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
68	MP-12	Z	.034	2
69	MP-12	Z	.043	2
70	MP-13	Z	.071	1
71	MP-14	Z	.105	1
72	MP-15	Z	.071	1
73	MP-2	Z	.082	5
74	MP-3	Z	.039	3
75	MP-3	Z	.031	6
76	MP-4	Z	.061	4.5
77	MP-6	Z	.075	5
78	MP-7	Z	.03	3
79	MP-7	Z	.018	6
80	MP-8	Z	.049	4.5
81	MP-10	Z	.131	5
82	MP-11	Z	.041	3
83	MP-11	Z	.035	6
84	MP-12	Z	.111	4.5

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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
1	MP-2	X	.096	1
2	MP-2	X	.045	2
3	MP-2	X	.036	2
4	MP-2	X	.069	4
5	MP-3	X	.049	1
6	MP-3	X	.036	4
7	MP-4	X	.068	1
8	MP-4	X	.053	2
9	MP-4	X	.068	2
10	MP-6	X	.113	1
11	MP-6	X	.056	2
12	MP-6	X	.049	2
13	MP-6	X	.054	4
14	MP-7	X	.044	1
15	MP-7	X	.028	4
16	MP-8	X	.077	1
17	MP-8	X	.06	2
18	MP-8	X	.083	2
19	MP-10	X	.204	1
20	MP-10	X	.035	2
21	MP-10	X	.023	2
22	MP-10	X	.083	4
23	MP-11	X	.062	1
24	MP-11	X	.055	4
25	MP-12	X	.178	1
26	MP-12	X	.045	2
27	MP-12	X	.054	2
28	MP-13	X	.117	1
29	MP-14	X	.145	1
30	MP-15	X	.089	1
31	MP-2	X	.096	5



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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
32	MP-3	X	.049	3
33	MP-3	X	.036	6
34	MP-4	X	.068	4.5
35	MP-6	X	.113	5
36	MP-7	X	.044	3
37	MP-7	X	.028	6
38	MP-8	X	.077	4.5
39	MP-10	X	.204	5
40	MP-11	X	.062	3
41	MP-11	X	.055	6
42	MP-12	X	.178	4.5
43	MP-2	Z	.096	1
44	MP-2	Z	.045	2
45	MP-2	Z	.036	2
46	MP-2	Z	.069	4
47	MP-3	Z	.049	1
48	MP-3	Z	.036	4
49	MP-4	Z	.068	1
50	MP-4	Z	.053	2
51	MP-4	Z	.068	2
52	MP-6	Z	.113	1
53	MP-6	Z	.056	2
54	MP-6	Z	.049	2
55	MP-6	Z	.054	4
56	MP-7	Z	.044	1
57	MP-7	Z	.028	4
58	MP-8	Z	.077	1
59	MP-8	Z	.06	2
60	MP-8	Z	.083	2
61	MP-10	Z	.204	1
62	MP-10	Z	.035	2
63	MP-10	Z	.023	2
64	MP-10	Z	.083	4
65	MP-11	Z	.062	1
66	MP-11	Z	.055	4
67	MP-12	Z	.178	1
68	MP-12	Z	.045	2
69	MP-12	Z	.054	2
70	MP-13	Z	.117	1
71	MP-14	Z	.145	1
72	MP-15	Z	.089	1
73	MP-2	Z	.096	5
74	MP-3	Z	.049	3
75	MP-3	Z	.036	6
76	MP-4	Z	.068	4.5
77	MP-6	Z	.113	5
78	MP-7	Z	.044	3
79	MP-7	Z	.028	6
80	MP-8	Z	.077	4.5
81	MP-10	Z	.204	5
82	MP-11	Z	.062	3
83	MP-11	Z	.055	6



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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
84	MP-12	Z	.178 4.5

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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.056 1
2	MP-2	X	.036 2
3	MP-2	X	.031 2
4	MP-2	X	.054 4
5	MP-3	X	.032 1
6	MP-3	X	.021 4
7	MP-4	X	.037 1
8	MP-4	X	.04 2
9	MP-4	X	.054 2
10	MP-6	X	.093 1
11	MP-6	X	.036 2
12	MP-6	X	.031 2
13	MP-6	X	.043 4
14	MP-7	X	.034 1
15	MP-7	X	.024 4
16	MP-8	X	.07 1
17	MP-8	X	.04 2
18	MP-8	X	.054 2
19	MP-10	X	.149 1
20	MP-10	X	.023 2
21	MP-10	X	.015 2
22	MP-10	X	.06 4
23	MP-11	X	.045 1
24	MP-11	X	.04 4
25	MP-12	X	.131 1
26	MP-12	X	.031 2
27	MP-12	X	.037 2
28	MP-13	X	.094 1
29	MP-14	X	.094 1
30	MP-15	X	.06 1
31	MP-2	X	.056 5
32	MP-3	X	.032 3
33	MP-3	X	.021 6
34	MP-4	X	.037 4.5
35	MP-6	X	.093 5
36	MP-7	X	.034 3
37	MP-7	X	.024 6
38	MP-8	X	.07 4.5
39	MP-10	X	.149 5
40	MP-11	X	.045 3
41	MP-11	X	.04 6
42	MP-12	X	.131 4.5
43	MP-2	Z	.098 1
44	MP-2	Z	.063 2
45	MP-2	Z	.053 2
46	MP-2	Z	.094 4
47	MP-3	Z	.055 1



Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
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**Member Point Loads (BLC 13 : 240 Wind - No Ice) (Continued)**

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
48	MP-3	Z	.036 4
49	MP-4	Z	.064 1
50	MP-4	Z	.07 2
51	MP-4	Z	.094 2
52	MP-6	Z	.162 1
53	MP-6	Z	.063 2
54	MP-6	Z	.053 2
55	MP-6	Z	.074 4
56	MP-7	Z	.058 1
57	MP-7	Z	.041 4
58	MP-8	Z	.121 1
59	MP-8	Z	.07 2
60	MP-8	Z	.094 2
61	MP-10	Z	.259 1
62	MP-10	Z	.04 2
63	MP-10	Z	.026 2
64	MP-10	Z	.105 4
65	MP-11	Z	.077 1
66	MP-11	Z	.07 4
67	MP-12	Z	.227 1
68	MP-12	Z	.054 2
69	MP-12	Z	.064 2
70	MP-13	Z	.163 1
71	MP-14	Z	.163 1
72	MP-15	Z	.104 1
73	MP-2	Z	.098 5
74	MP-3	Z	.055 3
75	MP-3	Z	.036 6
76	MP-4	Z	.064 4.5
77	MP-6	Z	.162 5
78	MP-7	Z	.058 3
79	MP-7	Z	.041 6
80	MP-8	Z	.121 4.5
81	MP-10	Z	.259 5
82	MP-11	Z	.077 3
83	MP-11	Z	.07 6
84	MP-12	Z	.227 4.5

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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	Z	.104 1
2	MP-2	Z	.081 2
3	MP-2	Z	.072 2
4	MP-2	Z	.121 4
5	MP-3	Z	.061 1
6	MP-3	Z	.038 4
7	MP-4	Z	.065 1
8	MP-4	Z	.087 2
9	MP-4	Z	.12 2
10	MP-6	Z	.262 1
11	MP-6	Z	.055 2



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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
12	MP-6	Z	.041	2
13	MP-6	Z	.109	4
14	MP-7	Z	.082	1
15	MP-7	Z	.07	4
16	MP-8	Z	.222	1
17	MP-8	Z	.068	2
18	MP-8	Z	.085	2
19	MP-10	Z	.262	1
20	MP-10	Z	.055	2
21	MP-10	Z	.041	2
22	MP-10	Z	.109	4
23	MP-11	Z	.082	1
24	MP-11	Z	.07	4
25	MP-12	Z	.222	1
26	MP-12	Z	.068	2
27	MP-12	Z	.085	2
28	MP-13	Z	.211	1
29	MP-14	Z	.143	1
30	MP-15	Z	.143	1
31	MP-2	Z	.104	5
32	MP-3	Z	.061	3
33	MP-3	Z	.038	6
34	MP-4	Z	.065	4.5
35	MP-6	Z	.262	5
36	MP-7	Z	.082	3
37	MP-7	Z	.07	6
38	MP-8	Z	.222	4.5
39	MP-10	Z	.262	5
40	MP-11	Z	.082	3
41	MP-11	Z	.07	6
42	MP-12	Z	.222	4.5

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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
1	MP-2	X	-.072	1
2	MP-2	X	-.036	2
3	MP-2	X	-.031	2
4	MP-2	X	-.054	4
5	MP-3	X	-.036	1
6	MP-3	X	-.027	4
7	MP-4	X	-.052	1
8	MP-4	X	-.04	2
9	MP-4	X	-.054	2
10	MP-6	X	-.149	1
11	MP-6	X	-.023	2
12	MP-6	X	-.015	2
13	MP-6	X	-.06	4
14	MP-7	X	-.045	1
15	MP-7	X	-.04	4
16	MP-8	X	-.131	1
17	MP-8	X	-.031	2



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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
18	MP-8	X	-.037	2
19	MP-10	X	-.093	1
20	MP-10	X	-.036	2
21	MP-10	X	-.031	2
22	MP-10	X	-.043	4
23	MP-11	X	-.034	1
24	MP-11	X	-.024	4
25	MP-12	X	-.07	1
26	MP-12	X	-.04	2
27	MP-12	X	-.054	2
28	MP-13	X	-.094	1
29	MP-14	X	-.06	1
30	MP-15	X	-.094	1
31	MP-2	X	-.072	5
32	MP-3	X	-.036	3
33	MP-3	X	-.027	6
34	MP-4	X	-.052	4.5
35	MP-6	X	-.149	5
36	MP-7	X	-.045	3
37	MP-7	X	-.04	6
38	MP-8	X	-.131	4.5
39	MP-10	X	-.093	5
40	MP-11	X	-.034	3
41	MP-11	X	-.024	6
42	MP-12	X	-.07	4.5
43	MP-2	Z	.125	1
44	MP-2	Z	.063	2
45	MP-2	Z	.053	2
46	MP-2	Z	.094	4
47	MP-3	Z	.062	1
48	MP-3	Z	.047	4
49	MP-4	Z	.09	1
50	MP-4	Z	.07	2
51	MP-4	Z	.094	2
52	MP-6	Z	.259	1
53	MP-6	Z	.04	2
54	MP-6	Z	.026	2
55	MP-6	Z	.105	4
56	MP-7	Z	.077	1
57	MP-7	Z	.07	4
58	MP-8	Z	.227	1
59	MP-8	Z	.054	2
60	MP-8	Z	.064	2
61	MP-10	Z	.162	1
62	MP-10	Z	.063	2
63	MP-10	Z	.053	2
64	MP-10	Z	.074	4
65	MP-11	Z	.058	1
66	MP-11	Z	.041	4
67	MP-12	Z	.121	1
68	MP-12	Z	.07	2
69	MP-12	Z	.094	2



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
70	MP-13	Z	.163	1
71	MP-14	Z	.104	1
72	MP-15	Z	.163	1
73	MP-2	Z	.125	5
74	MP-3	Z	.062	3
75	MP-3	Z	.047	6
76	MP-4	Z	.09	4.5
77	MP-6	Z	.259	5
78	MP-7	Z	.077	3
79	MP-7	Z	.07	6
80	MP-8	Z	.227	4.5
81	MP-10	Z	.162	5
82	MP-11	Z	.058	3
83	MP-11	Z	.041	6
84	MP-12	Z	.121	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.122	1
2	MP-2	X	-.045	2
3	MP-2	X	-.036	2
4	MP-2	X	-.069	4
5	MP-3	X	-.056	1
6	MP-3	X	-.047	4
7	MP-4	X	-.092	1
8	MP-4	X	-.053	2
9	MP-4	X	-.068	2
10	MP-6	X	-.204	1
11	MP-6	X	-.035	2
12	MP-6	X	-.023	2
13	MP-6	X	-.083	4
14	MP-7	X	-.062	1
15	MP-7	X	-.055	4
16	MP-8	X	-.178	1
17	MP-8	X	-.045	2
18	MP-8	X	-.054	2
19	MP-10	X	-.113	1
20	MP-10	X	-.056	2
21	MP-10	X	-.049	2
22	MP-10	X	-.054	4
23	MP-11	X	-.044	1
24	MP-11	X	-.028	4
25	MP-12	X	-.077	1
26	MP-12	X	-.06	2
27	MP-12	X	-.083	2
28	MP-13	X	-.117	1
29	MP-14	X	-.089	1
30	MP-15	X	-.145	1
31	MP-2	X	-.122	5
32	MP-3	X	-.056	3
33	MP-3	X	-.047	6



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
34	MP-4	X	-.092	4.5
35	MP-6	X	-.204	5
36	MP-7	X	-.062	3
37	MP-7	X	-.055	6
38	MP-8	X	-.178	4.5
39	MP-10	X	-.113	5
40	MP-11	X	-.044	3
41	MP-11	X	-.028	6
42	MP-12	X	-.077	4.5
43	MP-2	Z	.122	1
44	MP-2	Z	.045	2
45	MP-2	Z	.036	2
46	MP-2	Z	.069	4
47	MP-3	Z	.056	1
48	MP-3	Z	.047	4
49	MP-4	Z	.092	1
50	MP-4	Z	.053	2
51	MP-4	Z	.068	2
52	MP-6	Z	.204	1
53	MP-6	Z	.035	2
54	MP-6	Z	.023	2
55	MP-6	Z	.083	4
56	MP-7	Z	.062	1
57	MP-7	Z	.055	4
58	MP-8	Z	.178	1
59	MP-8	Z	.045	2
60	MP-8	Z	.054	2
61	MP-10	Z	.113	1
62	MP-10	Z	.056	2
63	MP-10	Z	.049	2
64	MP-10	Z	.054	4
65	MP-11	Z	.044	1
66	MP-11	Z	.028	4
67	MP-12	Z	.077	1
68	MP-12	Z	.06	2
69	MP-12	Z	.083	2
70	MP-13	Z	.117	1
71	MP-14	Z	.089	1
72	MP-15	Z	.145	1
73	MP-2	Z	.122	5
74	MP-3	Z	.056	3
75	MP-3	Z	.047	6
76	MP-4	Z	.092	4.5
77	MP-6	Z	.204	5
78	MP-7	Z	.062	3
79	MP-7	Z	.055	6
80	MP-8	Z	.178	4.5
81	MP-10	Z	.113	5
82	MP-11	Z	.044	3
83	MP-11	Z	.028	6
84	MP-12	Z	.077	4.5



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-0.169	1
2	MP-2	X	-0.048	2
3	MP-2	X	-0.035	2
4	MP-2	X	-0.074	4
5	MP-3	X	-0.074	1
6	MP-3	X	-0.065	4
7	MP-4	X	-0.132	1
8	MP-4	X	-0.059	2
9	MP-4	X	-0.074	2
10	MP-6	X	-0.226	1
11	MP-6	X	-0.048	2
12	MP-6	X	-0.035	2
13	MP-6	X	-0.094	4
14	MP-7	X	-0.071	1
15	MP-7	X	-0.06	4
16	MP-8	X	-0.192	1
17	MP-8	X	-0.059	2
18	MP-8	X	-0.074	2
19	MP-10	X	-0.13	1
20	MP-10	X	-0.07	2
21	MP-10	X	-0.063	2
22	MP-10	X	-0.064	4
23	MP-11	X	-0.052	1
24	MP-11	X	-0.032	4
25	MP-12	X	-0.085	1
26	MP-12	X	-0.075	2
27	MP-12	X	-0.104	2
28	MP-13	X	-0.124	1
29	MP-14	X	-0.124	1
30	MP-15	X	-0.182	1
31	MP-2	X	-0.169	5
32	MP-3	X	-0.074	3
33	MP-3	X	-0.065	6
34	MP-4	X	-0.132	4.5
35	MP-6	X	-0.226	5
36	MP-7	X	-0.071	3
37	MP-7	X	-0.06	6
38	MP-8	X	-0.192	4.5
39	MP-10	X	-0.13	5
40	MP-11	X	-0.052	3
41	MP-11	X	-0.032	6
42	MP-12	X	-0.085	4.5
43	MP-2	Z	0.098	1
44	MP-2	Z	0.028	2
45	MP-2	Z	0.02	2
46	MP-2	Z	0.043	4
47	MP-3	Z	0.043	1
48	MP-3	Z	0.038	4
49	MP-4	Z	0.076	1
50	MP-4	Z	0.034	2
51	MP-4	Z	0.043	2
52	MP-6	Z	0.131	1



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
53	MP-6	Z	0.028	2
54	MP-6	Z	0.02	2
55	MP-6	Z	0.054	4
56	MP-7	Z	0.041	1
57	MP-7	Z	0.035	4
58	MP-8	Z	0.111	1
59	MP-8	Z	0.034	2
60	MP-8	Z	0.043	2
61	MP-10	Z	0.075	1
62	MP-10	Z	0.041	2
63	MP-10	Z	0.036	2
64	MP-10	Z	0.037	4
65	MP-11	Z	0.03	1
66	MP-11	Z	0.018	4
67	MP-12	Z	0.049	1
68	MP-12	Z	0.043	2
69	MP-12	Z	0.06	2
70	MP-13	Z	0.071	1
71	MP-14	Z	0.071	1
72	MP-15	Z	0.105	1
73	MP-2	Z	0.098	5
74	MP-3	Z	0.043	3
75	MP-3	Z	0.038	6
76	MP-4	Z	0.076	4.5
77	MP-6	Z	0.131	5
78	MP-7	Z	0.041	3
79	MP-7	Z	0.035	6
80	MP-8	Z	0.111	4.5
81	MP-10	Z	0.075	5
82	MP-11	Z	0.03	3
83	MP-11	Z	0.018	6
84	MP-12	Z	0.049	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	Y	-0.124	1
2	MP-2	Y	-0.069	2
3	MP-2	Y	-0.056	2
4	MP-2	Y	-0.091	4
5	MP-3	Y	-0.069	1
6	MP-3	Y	-0.054	4
7	MP-4	Y	-0.105	1
8	MP-4	Y	-0.08	2
9	MP-4	Y	-0.09	2
10	MP-6	Y	-0.166	1
11	MP-6	Y	-0.069	2
12	MP-6	Y	-0.056	2
13	MP-6	Y	-0.091	4
14	MP-7	Y	-0.069	1
15	MP-7	Y	-0.054	4
16	MP-8	Y	-0.148	1



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
17	MP-8	Y	-08	2
18	MP-8	Y	-09	2
19	MP-10	Y	-166	1
20	MP-10	Y	-069	2
21	MP-10	Y	-056	2
22	MP-10	Y	-091	4
23	MP-11	Y	-069	1
24	MP-11	Y	-054	4
25	MP-12	Y	-148	1
26	MP-12	Y	-08	2
27	MP-12	Y	-09	2
28	MP-13	Y	-152	1
29	MP-14	Y	-152	1
30	MP-15	Y	-152	1
31	MP-2	Y	-124	5
32	MP-3	Y	-069	3
33	MP-3	Y	-054	6
34	MP-4	Y	-105	4.5
35	MP-6	Y	-166	5
36	MP-7	Y	-069	3
37	MP-7	Y	-054	6
38	MP-8	Y	-148	4.5
39	MP-10	Y	-166	5
40	MP-11	Y	-069	3
41	MP-11	Y	-054	6
42	MP-12	Y	-148	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-046	1
2	MP-2	X	-022	2
3	MP-2	X	-02	2
4	MP-2	X	-032	4
5	MP-3	X	-022	1
6	MP-3	X	-02	4
7	MP-4	X	-036	1
8	MP-4	X	-024	2
9	MP-4	X	-032	2
10	MP-6	X	-065	1
11	MP-6	X	-022	2
12	MP-6	X	-02	2
13	MP-6	X	-032	4
14	MP-7	X	-022	1
15	MP-7	X	-02	4
16	MP-8	X	-056	1
17	MP-8	X	-024	2
18	MP-8	X	-032	2
19	MP-10	X	-065	1
20	MP-10	X	-022	2
21	MP-10	X	-02	2
22	MP-10	X	-032	4



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
23	MP-11	X	-022	1
24	MP-11	X	-02	4
25	MP-12	X	-056	1
26	MP-12	X	-024	2
27	MP-12	X	-032	2
28	MP-13	X	-032	1
29	MP-14	X	-032	1
30	MP-15	X	-032	1
31	MP-2	X	-046	5
32	MP-3	X	-022	3
33	MP-3	X	-02	6
34	MP-4	X	-036	4.5
35	MP-6	X	-065	5
36	MP-7	X	-022	3
37	MP-7	X	-02	6
38	MP-8	X	-056	4.5
39	MP-10	X	-065	5
40	MP-11	X	-022	3
41	MP-11	X	-02	6
42	MP-12	X	-056	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-033	1
2	MP-2	X	-015	2
3	MP-2	X	-012	2
4	MP-2	X	-021	4
5	MP-3	X	-017	1
6	MP-3	X	-014	4
7	MP-4	X	-024	1
8	MP-4	X	-017	2
9	MP-4	X	-021	2
10	MP-6	X	-032	1
11	MP-6	X	-019	2
12	MP-6	X	-018	2
13	MP-6	X	-019	4
14	MP-7	X	-014	1
15	MP-7	X	-009	4
16	MP-8	X	-022	1
17	MP-8	X	-021	2
18	MP-8	X	-027	2
19	MP-10	X	-05	1
20	MP-10	X	-015	2
21	MP-10	X	-012	2
22	MP-10	X	-025	4
23	MP-11	X	-018	1
24	MP-11	X	-015	4
25	MP-12	X	-042	1
26	MP-12	X	-017	2
27	MP-12	X	-021	2
28	MP-13	X	-032	1



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
29	MP-14	X	-0.44	1
30	MP-15	X	-0.32	1
31	MP-2	X	-0.33	5
32	MP-3	X	-0.17	3
33	MP-3	X	-0.14	6
34	MP-4	X	-0.24	4.5
35	MP-6	X	-0.32	5
36	MP-7	X	-0.14	3
37	MP-7	X	-0.09	6
38	MP-8	X	-0.22	4.5
39	MP-10	X	-0.05	5
40	MP-11	X	-0.18	3
41	MP-11	X	-0.15	6
42	MP-12	X	-0.42	4.5
43	MP-2	Z	-0.19	1
44	MP-2	Z	-0.008	2
45	MP-2	Z	-0.007	2
46	MP-2	Z	-0.12	4
47	MP-3	Z	-0.01	1
48	MP-3	Z	-0.008	4
49	MP-4	Z	-0.14	1
50	MP-4	Z	-0.01	2
51	MP-4	Z	-0.12	2
52	MP-6	Z	-0.18	1
53	MP-6	Z	-0.11	2
54	MP-6	Z	-0.01	2
55	MP-6	Z	-0.11	4
56	MP-7	Z	-0.008	1
57	MP-7	Z	-0.005	4
58	MP-8	Z	-0.13	1
59	MP-8	Z	-0.12	2
60	MP-8	Z	-0.16	2
61	MP-10	Z	-0.29	1
62	MP-10	Z	-0.008	2
63	MP-10	Z	-0.007	2
64	MP-10	Z	-0.15	4
65	MP-11	Z	-0.01	1
66	MP-11	Z	-0.009	4
67	MP-12	Z	-0.24	1
68	MP-12	Z	-0.01	2
69	MP-12	Z	-0.12	2
70	MP-13	Z	-0.18	1
71	MP-14	Z	-0.25	1
72	MP-15	Z	-0.18	1
73	MP-2	Z	-0.19	5
74	MP-3	Z	-0.01	3
75	MP-3	Z	-0.008	6
76	MP-4	Z	-0.14	4.5
77	MP-6	Z	-0.18	5
78	MP-7	Z	-0.008	3
79	MP-7	Z	-0.005	6
80	MP-8	Z	-0.13	4.5



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
81	MP-10	Z	-0.029	5
82	MP-11	Z	-0.01	3
83	MP-11	Z	-0.009	6
84	MP-12	Z	-0.024	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-0.23	1
2	MP-2	X	-0.13	2
3	MP-2	X	-0.11	2
4	MP-2	X	-0.19	4
5	MP-3	X	-0.13	1
6	MP-3	X	-0.01	4
7	MP-4	X	-0.16	1
8	MP-4	X	-0.015	2
9	MP-4	X	-0.19	2
10	MP-6	X	-0.27	1
11	MP-6	X	-0.16	2
12	MP-6	X	-0.14	2
13	MP-6	X	-0.16	4
14	MP-7	X	-0.12	1
15	MP-7	X	-0.008	4
16	MP-8	X	-0.02	1
17	MP-8	X	-0.17	2
18	MP-8	X	-0.22	2
19	MP-10	X	-0.44	1
20	MP-10	X	-0.11	2
21	MP-10	X	-0.008	2
22	MP-10	X	-0.22	4
23	MP-11	X	-0.15	1
24	MP-11	X	-0.14	4
25	MP-12	X	-0.38	1
26	MP-12	X	-0.13	2
27	MP-12	X	-0.16	2
28	MP-13	X	-0.29	1
29	MP-14	X	-0.35	1
30	MP-15	X	-0.23	1
31	MP-2	X	-0.23	5
32	MP-3	X	-0.13	3
33	MP-3	X	-0.01	6
34	MP-4	X	-0.16	4.5
35	MP-6	X	-0.27	5
36	MP-7	X	-0.12	3
37	MP-7	X	-0.008	6
38	MP-8	X	-0.02	4.5
39	MP-10	X	-0.44	5
40	MP-11	X	-0.15	3
41	MP-11	X	-0.14	6
42	MP-12	X	-0.38	4.5
43	MP-2	Z	-0.23	1
44	MP-2	Z	-0.13	2



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
45	MP-2	Z	-0.11	2
46	MP-2	Z	-0.19	4
47	MP-3	Z	-0.13	1
48	MP-3	Z	-0.1	4
49	MP-4	Z	-0.16	1
50	MP-4	Z	-0.15	2
51	MP-4	Z	-0.19	2
52	MP-6	Z	-0.27	1
53	MP-6	Z	-0.16	2
54	MP-6	Z	-0.14	2
55	MP-6	Z	-0.16	4
56	MP-7	Z	-0.12	1
57	MP-7	Z	-0.08	4
58	MP-8	Z	-0.02	1
59	MP-8	Z	-0.17	2
60	MP-8	Z	-0.22	2
61	MP-10	Z	-0.44	1
62	MP-10	Z	-0.11	2
63	MP-10	Z	-0.08	2
64	MP-10	Z	-0.22	4
65	MP-11	Z	-0.15	1
66	MP-11	Z	-0.14	4
67	MP-12	Z	-0.38	1
68	MP-12	Z	-0.13	2
69	MP-12	Z	-0.16	2
70	MP-13	Z	-0.29	1
71	MP-14	Z	-0.35	1
72	MP-15	Z	-0.23	1
73	MP-2	Z	-0.23	5
74	MP-3	Z	-0.13	3
75	MP-3	Z	-0.1	6
76	MP-4	Z	-0.16	4.5
77	MP-6	Z	-0.27	5
78	MP-7	Z	-0.12	3
79	MP-7	Z	-0.08	6
80	MP-8	Z	-0.02	4.5
81	MP-10	Z	-0.44	5
82	MP-11	Z	-0.15	3
83	MP-11	Z	-0.14	6
84	MP-12	Z	-0.38	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-0.14	1
2	MP-2	X	-0.1	2
3	MP-2	X	-0.09	2
4	MP-2	X	-0.15	4
5	MP-3	X	-0.08	1
6	MP-3	X	-0.06	4
7	MP-4	X	-0.09	1
8	MP-4	X	-0.11	2



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
9	MP-4	X	-0.15	2
10	MP-6	X	-0.22	1
11	MP-6	X	-0.1	2
12	MP-6	X	-0.09	2
13	MP-6	X	-0.12	4
14	MP-7	X	-0.09	1
15	MP-7	X	-0.07	4
16	MP-8	X	-0.17	1
17	MP-8	X	-0.11	2
18	MP-8	X	-0.15	2
19	MP-10	X	-0.32	1
20	MP-10	X	-0.07	2
21	MP-10	X	-0.05	2
22	MP-10	X	-0.16	4
23	MP-11	X	-0.11	1
24	MP-11	X	-0.1	4
25	MP-12	X	-0.28	1
26	MP-12	X	-0.09	2
27	MP-12	X	-0.11	2
28	MP-13	X	-0.23	1
29	MP-14	X	-0.23	1
30	MP-15	X	-0.16	1
31	MP-2	X	-0.14	5
32	MP-3	X	-0.08	3
33	MP-3	X	-0.06	6
34	MP-4	X	-0.09	4.5
35	MP-6	X	-0.22	5
36	MP-7	X	-0.09	3
37	MP-7	X	-0.07	6
38	MP-8	X	-0.17	4.5
39	MP-10	X	-0.32	5
40	MP-11	X	-0.11	3
41	MP-11	X	-0.1	6
42	MP-12	X	-0.28	4.5
43	MP-2	Z	-0.24	1
44	MP-2	Z	-0.18	2
45	MP-2	Z	-0.16	2
46	MP-2	Z	-0.25	4
47	MP-3	Z	-0.14	1
48	MP-3	Z	-0.1	4
49	MP-4	Z	-0.16	1
50	MP-4	Z	-0.19	2
51	MP-4	Z	-0.25	2
52	MP-6	Z	-0.38	1
53	MP-6	Z	-0.18	2
54	MP-6	Z	-0.16	2
55	MP-6	Z	-0.21	4
56	MP-7	Z	-0.15	1
57	MP-7	Z	-0.11	4
58	MP-8	Z	-0.29	1
59	MP-8	Z	-0.19	2
60	MP-8	Z	-0.25	2





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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
61	MP-10	Z	-.056	1
62	MP-10	Z	-.013	2
63	MP-10	Z	-.009	2
64	MP-10	Z	-.028	4
65	MP-11	Z	-.019	1
66	MP-11	Z	-.017	4
67	MP-12	Z	-.049	1
68	MP-12	Z	-.016	2
69	MP-12	Z	-.019	2
70	MP-13	Z	-.04	1
71	MP-14	Z	-.04	1
72	MP-15	Z	-.028	1
73	MP-2	Z	-.024	5
74	MP-3	Z	-.014	3
75	MP-3	Z	-.01	6
76	MP-4	Z	-.016	4.5
77	MP-6	Z	-.038	5
78	MP-7	Z	-.015	3
79	MP-7	Z	-.011	6
80	MP-8	Z	-.029	4.5
81	MP-10	Z	-.056	5
82	MP-11	Z	-.019	3
83	MP-11	Z	-.017	6
84	MP-12	Z	-.049	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	Z	-.025	1
2	MP-2	Z	-.015	2
3	MP-2	Z	-.011	2
4	MP-2	Z	-.022	4
5	MP-3	Z	-.016	1
6	MP-3	Z	-.011	4
7	MP-4	Z	-.016	1
8	MP-4	Z	-.018	2
9	MP-4	Z	-.022	2
10	MP-6	Z	-.037	1
11	MP-6	Z	-.015	2
12	MP-6	Z	-.011	2
13	MP-6	Z	-.022	4
14	MP-7	Z	-.016	1
15	MP-7	Z	-.011	4
16	MP-8	Z	-.026	1
17	MP-8	Z	-.018	2
18	MP-8	Z	-.022	2
19	MP-10	Z	-.037	1
20	MP-10	Z	-.015	2
21	MP-10	Z	-.011	2
22	MP-10	Z	-.022	4
23	MP-11	Z	-.016	1
24	MP-11	Z	-.011	4



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
25	MP-12	Z	-.026	1
26	MP-12	Z	-.018	2
27	MP-12	Z	-.022	2
28	MP-13	Z	-.05	1
29	MP-14	Z	-.05	1
30	MP-15	Z	-.05	1
31	MP-2	Z	-.025	5
32	MP-3	Z	-.016	3
33	MP-3	Z	-.011	6
34	MP-4	Z	-.016	4.5
35	MP-6	Z	-.037	5
36	MP-7	Z	-.016	3
37	MP-7	Z	-.011	6
38	MP-8	Z	-.026	4.5
39	MP-10	Z	-.037	5
40	MP-11	Z	-.016	3
41	MP-11	Z	-.011	6
42	MP-12	Z	-.026	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.017	1
2	MP-2	X	.01	2
3	MP-2	X	.009	2
4	MP-2	X	.015	4
5	MP-3	X	.009	1
6	MP-3	X	.007	4
7	MP-4	X	.012	1
8	MP-4	X	.011	2
9	MP-4	X	.015	2
10	MP-6	X	.032	1
11	MP-6	X	.007	2
12	MP-6	X	.005	2
13	MP-6	X	.016	4
14	MP-7	X	.011	1
15	MP-7	X	.01	4
16	MP-8	X	.028	1
17	MP-8	X	.009	2
18	MP-8	X	.011	2
19	MP-10	X	.022	1
20	MP-10	X	.01	2
21	MP-10	X	.009	2
22	MP-10	X	.012	4
23	MP-11	X	.009	1
24	MP-11	X	.007	4
25	MP-12	X	.017	1
26	MP-12	X	.011	2
27	MP-12	X	.015	2
28	MP-13	X	.023	1
29	MP-14	X	.016	1
30	MP-15	X	.023	1



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
31	MP-2	X	.017	5
32	MP-3	X	.009	3
33	MP-3	X	.007	6
34	MP-4	X	.012	4.5
35	MP-6	X	.032	5
36	MP-7	X	.011	3
37	MP-7	X	.01	6
38	MP-8	X	.028	4.5
39	MP-10	X	.022	5
40	MP-11	X	.009	3
41	MP-11	X	.007	6
42	MP-12	X	.017	4.5
43	MP-2	Z	-.029	1
44	MP-2	Z	-.018	2
45	MP-2	Z	-.016	2
46	MP-2	Z	-.025	4
47	MP-3	Z	-.016	1
48	MP-3	Z	-.013	4
49	MP-4	Z	-.021	1
50	MP-4	Z	-.019	2
51	MP-4	Z	-.025	2
52	MP-6	Z	-.056	1
53	MP-6	Z	-.013	2
54	MP-6	Z	-.009	2
55	MP-6	Z	-.028	4
56	MP-7	Z	-.019	1
57	MP-7	Z	-.017	4
58	MP-8	Z	-.049	1
59	MP-8	Z	-.016	2
60	MP-8	Z	-.019	2
61	MP-10	Z	-.038	1
62	MP-10	Z	-.018	2
63	MP-10	Z	-.016	2
64	MP-10	Z	-.021	4
65	MP-11	Z	-.015	1
66	MP-11	Z	-.011	4
67	MP-12	Z	-.029	1
68	MP-12	Z	-.019	2
69	MP-12	Z	-.025	2
70	MP-13	Z	-.04	1
71	MP-14	Z	-.028	1
72	MP-15	Z	-.04	1
73	MP-2	Z	-.029	5
74	MP-3	Z	-.016	3
75	MP-3	Z	-.013	6
76	MP-4	Z	-.021	4.5
77	MP-6	Z	-.056	5
78	MP-7	Z	-.019	3
79	MP-7	Z	-.017	6
80	MP-8	Z	-.049	4.5
81	MP-10	Z	-.038	5
82	MP-11	Z	-.015	3



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
83	MP-11	Z	-.011	6
84	MP-12	Z	-.029	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.028	1
2	MP-2	X	.013	2
3	MP-2	X	.011	2
4	MP-2	X	.019	4
5	MP-3	X	.014	1
6	MP-3	X	.012	4
7	MP-4	X	.021	1
8	MP-4	X	.015	2
9	MP-4	X	.019	2
10	MP-6	X	.044	1
11	MP-6	X	.011	2
12	MP-6	X	.008	2
13	MP-6	X	.022	4
14	MP-7	X	.015	1
15	MP-7	X	.014	4
16	MP-8	X	.038	1
17	MP-8	X	.013	2
18	MP-8	X	.016	2
19	MP-10	X	.027	1
20	MP-10	X	.016	2
21	MP-10	X	.014	2
22	MP-10	X	.016	4
23	MP-11	X	.012	1
24	MP-11	X	.008	4
25	MP-12	X	.02	1
26	MP-12	X	.017	2
27	MP-12	X	.022	2
28	MP-13	X	.029	1
29	MP-14	X	.023	1
30	MP-15	X	.035	1
31	MP-2	X	.028	5
32	MP-3	X	.014	3
33	MP-3	X	.012	6
34	MP-4	X	.021	4.5
35	MP-6	X	.044	5
36	MP-7	X	.015	3
37	MP-7	X	.014	6
38	MP-8	X	.038	4.5
39	MP-10	X	.027	5
40	MP-11	X	.012	3
41	MP-11	X	.008	6
42	MP-12	X	.02	4.5
43	MP-2	Z	-.028	1
44	MP-2	Z	-.013	2
45	MP-2	Z	-.011	2
46	MP-2	Z	-.019	4



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
47	MP-3	Z	-0.14	1
48	MP-3	Z	-0.12	4
49	MP-4	Z	-0.21	1
50	MP-4	Z	-0.15	2
51	MP-4	Z	-0.19	2
52	MP-6	Z	-0.44	1
53	MP-6	Z	-0.11	2
54	MP-6	Z	-0.08	2
55	MP-6	Z	-0.22	4
56	MP-7	Z	-0.15	1
57	MP-7	Z	-0.14	4
58	MP-8	Z	-0.38	1
59	MP-8	Z	-0.13	2
60	MP-8	Z	-0.16	2
61	MP-10	Z	-0.27	1
62	MP-10	Z	-0.16	2
63	MP-10	Z	-0.14	2
64	MP-10	Z	-0.16	4
65	MP-11	Z	-0.12	1
66	MP-11	Z	-0.08	4
67	MP-12	Z	-0.02	1
68	MP-12	Z	-0.17	2
69	MP-12	Z	-0.22	2
70	MP-13	Z	-0.29	1
71	MP-14	Z	-0.23	1
72	MP-15	Z	-0.35	1
73	MP-2	Z	-0.28	5
74	MP-3	Z	-0.14	3
75	MP-3	Z	-0.12	6
76	MP-4	Z	-0.21	4.5
77	MP-6	Z	-0.44	5
78	MP-7	Z	-0.15	3
79	MP-7	Z	-0.14	6
80	MP-8	Z	-0.38	4.5
81	MP-10	Z	-0.27	5
82	MP-11	Z	-0.12	3
83	MP-11	Z	-0.08	6
84	MP-12	Z	-0.02	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.038	1
2	MP-2	X	.015	2
3	MP-2	X	.012	2
4	MP-2	X	.021	4
5	MP-3	X	.018	1
6	MP-3	X	.016	4
7	MP-4	X	.029	1
8	MP-4	X	.017	2
9	MP-4	X	.021	2
10	MP-6	X	.05	1



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
11	MP-6	X	.015	2
12	MP-6	X	.012	2
13	MP-6	X	.025	4
14	MP-7	X	.018	1
15	MP-7	X	.015	4
16	MP-8	X	.042	1
17	MP-8	X	.017	2
18	MP-8	X	.021	2
19	MP-10	X	.032	1
20	MP-10	X	.019	2
21	MP-10	X	.018	2
22	MP-10	X	.019	4
23	MP-11	X	.014	1
24	MP-11	X	.009	4
25	MP-12	X	.022	1
26	MP-12	X	.021	2
27	MP-12	X	.027	2
28	MP-13	X	.032	1
29	MP-14	X	.032	1
30	MP-15	X	.044	1
31	MP-2	X	.038	5
32	MP-3	X	.018	3
33	MP-3	X	.016	6
34	MP-4	X	.029	4.5
35	MP-6	X	.05	5
36	MP-7	X	.018	3
37	MP-7	X	.015	6
38	MP-8	X	.042	4.5
39	MP-10	X	.032	5
40	MP-11	X	.014	3
41	MP-11	X	.009	6
42	MP-12	X	.022	4.5
43	MP-2	Z	-.022	1
44	MP-2	Z	-.008	2
45	MP-2	Z	-.007	2
46	MP-2	Z	-.012	4
47	MP-3	Z	-.011	1
48	MP-3	Z	-.009	4
49	MP-4	Z	-.017	1
50	MP-4	Z	-.01	2
51	MP-4	Z	-.012	2
52	MP-6	Z	-.029	1
53	MP-6	Z	-.008	2
54	MP-6	Z	-.007	2
55	MP-6	Z	-.015	4
56	MP-7	Z	-.01	1
57	MP-7	Z	-.009	4
58	MP-8	Z	-.024	1
59	MP-8	Z	-.01	2
60	MP-8	Z	-.012	2
61	MP-10	Z	-.018	1
62	MP-10	Z	-.011	2



Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
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**Member Point Loads (BLC 26 : 150 Wind - Ice) (Continued)**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
63	MP-10	Z	-.01	2
64	MP-10	Z	-.011	4
65	MP-11	Z	-.008	1
66	MP-11	Z	-.005	4
67	MP-12	Z	-.013	1
68	MP-12	Z	-.012	2
69	MP-12	Z	-.016	2
70	MP-13	Z	-.018	1
71	MP-14	Z	-.018	1
72	MP-15	Z	-.025	1
73	MP-2	Z	-.022	5
74	MP-3	Z	-.011	3
75	MP-3	Z	-.009	6
76	MP-4	Z	-.017	4.5
77	MP-6	Z	-.029	5
78	MP-7	Z	-.01	3
79	MP-7	Z	-.009	6
80	MP-8	Z	-.024	4.5
81	MP-10	Z	-.018	5
82	MP-11	Z	-.008	3
83	MP-11	Z	-.005	6
84	MP-12	Z	-.013	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.046	1
2	MP-2	X	.022	2
3	MP-2	X	.02	2
4	MP-2	X	.032	4
5	MP-3	X	.022	1
6	MP-3	X	.02	4
7	MP-4	X	.036	1
8	MP-4	X	.024	2
9	MP-4	X	.032	2
10	MP-6	X	.065	1
11	MP-6	X	.022	2
12	MP-6	X	.02	2
13	MP-6	X	.032	4
14	MP-7	X	.022	1
15	MP-7	X	.02	4
16	MP-8	X	.056	1
17	MP-8	X	.024	2
18	MP-8	X	.032	2
19	MP-10	X	.065	1
20	MP-10	X	.022	2
21	MP-10	X	.02	2
22	MP-10	X	.032	4
23	MP-11	X	.022	1
24	MP-11	X	.02	4
25	MP-12	X	.056	1
26	MP-12	X	.024	2



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
27	MP-12	X	.032	2
28	MP-13	X	.032	1
29	MP-14	X	.032	1
30	MP-15	X	.032	1
31	MP-2	X	.046	5
32	MP-3	X	.022	3
33	MP-3	X	.02	6
34	MP-4	X	.036	4.5
35	MP-6	X	.065	5
36	MP-7	X	.022	3
37	MP-7	X	.02	6
38	MP-8	X	.056	4.5
39	MP-10	X	.065	5
40	MP-11	X	.022	3
41	MP-11	X	.02	6
42	MP-12	X	.056	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.033	1
2	MP-2	X	.015	2
3	MP-2	X	.012	2
4	MP-2	X	.021	4
5	MP-3	X	.017	1
6	MP-3	X	.014	4
7	MP-4	X	.024	1
8	MP-4	X	.017	2
9	MP-4	X	.021	2
10	MP-6	X	.032	1
11	MP-6	X	.019	2
12	MP-6	X	.018	2
13	MP-6	X	.019	4
14	MP-7	X	.014	1
15	MP-7	X	.009	4
16	MP-8	X	.022	1
17	MP-8	X	.021	2
18	MP-8	X	.027	2
19	MP-10	X	.05	1
20	MP-10	X	.015	2
21	MP-10	X	.012	2
22	MP-10	X	.025	4
23	MP-11	X	.018	1
24	MP-11	X	.015	4
25	MP-12	X	.042	1
26	MP-12	X	.017	2
27	MP-12	X	.021	2
28	MP-13	X	.032	1
29	MP-14	X	.044	1
30	MP-15	X	.032	1
31	MP-2	X	.033	5
32	MP-3	X	.017	3



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
33	MP-3	X	.014	6
34	MP-4	X	.024	4.5
35	MP-6	X	.032	5
36	MP-7	X	.014	3
37	MP-7	X	.009	6
38	MP-8	X	.022	4.5
39	MP-10	X	.05	5
40	MP-11	X	.018	3
41	MP-11	X	.015	6
42	MP-12	X	.042	4.5
43	MP-2	Z	.019	1
44	MP-2	Z	.008	2
45	MP-2	Z	.007	2
46	MP-2	Z	.012	4
47	MP-3	Z	.01	1
48	MP-3	Z	.008	4
49	MP-4	Z	.014	1
50	MP-4	Z	.01	2
51	MP-4	Z	.012	2
52	MP-6	Z	.018	1
53	MP-6	Z	.011	2
54	MP-6	Z	.01	2
55	MP-6	Z	.011	4
56	MP-7	Z	.008	1
57	MP-7	Z	.005	4
58	MP-8	Z	.013	1
59	MP-8	Z	.012	2
60	MP-8	Z	.016	2
61	MP-10	Z	.029	1
62	MP-10	Z	.008	2
63	MP-10	Z	.007	2
64	MP-10	Z	.015	4
65	MP-11	Z	.01	1
66	MP-11	Z	.009	4
67	MP-12	Z	.024	1
68	MP-12	Z	.01	2
69	MP-12	Z	.012	2
70	MP-13	Z	.018	1
71	MP-14	Z	.025	1
72	MP-15	Z	.018	1
73	MP-2	Z	.019	5
74	MP-3	Z	.01	3
75	MP-3	Z	.008	6
76	MP-4	Z	.014	4.5
77	MP-6	Z	.018	5
78	MP-7	Z	.008	3
79	MP-7	Z	.005	6
80	MP-8	Z	.013	4.5
81	MP-10	Z	.029	5
82	MP-11	Z	.01	3
83	MP-11	Z	.009	6
84	MP-12	Z	.024	4.5



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.023	1
2	MP-2	X	.013	2
3	MP-2	X	.011	2
4	MP-2	X	.019	4
5	MP-3	X	.013	1
6	MP-3	X	.01	4
7	MP-4	X	.016	1
8	MP-4	X	.015	2
9	MP-4	X	.019	2
10	MP-6	X	.027	1
11	MP-6	X	.016	2
12	MP-6	X	.014	2
13	MP-6	X	.016	4
14	MP-7	X	.012	1
15	MP-7	X	.008	4
16	MP-8	X	.02	1
17	MP-8	X	.017	2
18	MP-8	X	.022	2
19	MP-10	X	.044	1
20	MP-10	X	.011	2
21	MP-10	X	.008	2
22	MP-10	X	.022	4
23	MP-11	X	.015	1
24	MP-11	X	.014	4
25	MP-12	X	.038	1
26	MP-12	X	.013	2
27	MP-12	X	.016	2
28	MP-13	X	.029	1
29	MP-14	X	.035	1
30	MP-15	X	.023	1
31	MP-2	X	.023	5
32	MP-3	X	.013	3
33	MP-3	X	.01	6
34	MP-4	X	.016	4.5
35	MP-6	X	.027	5
36	MP-7	X	.012	3
37	MP-7	X	.008	6
38	MP-8	X	.02	4.5
39	MP-10	X	.044	5
40	MP-11	X	.015	3
41	MP-11	X	.014	6
42	MP-12	X	.038	4.5
43	MP-2	Z	.023	1
44	MP-2	Z	.013	2
45	MP-2	Z	.011	2
46	MP-2	Z	.019	4
47	MP-3	Z	.013	1
48	MP-3	Z	.01	4
49	MP-4	Z	.016	1
50	MP-4	Z	.015	2
51	MP-4	Z	.019	2
52	MP-6	Z	.027	1



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
53	MP-6	Z	.016	2
54	MP-6	Z	.014	2
55	MP-6	Z	.016	4
56	MP-7	Z	.012	1
57	MP-7	Z	.008	4
58	MP-8	Z	.02	1
59	MP-8	Z	.017	2
60	MP-8	Z	.022	2
61	MP-10	Z	.044	1
62	MP-10	Z	.011	2
63	MP-10	Z	.008	2
64	MP-10	Z	.022	4
65	MP-11	Z	.015	1
66	MP-11	Z	.014	4
67	MP-12	Z	.038	1
68	MP-12	Z	.013	2
69	MP-12	Z	.016	2
70	MP-13	Z	.029	1
71	MP-14	Z	.035	1
72	MP-15	Z	.023	1
73	MP-2	Z	.023	5
74	MP-3	Z	.013	3
75	MP-3	Z	.01	6
76	MP-4	Z	.016	4.5
77	MP-6	Z	.027	5
78	MP-7	Z	.012	3
79	MP-7	Z	.008	6
80	MP-8	Z	.02	4.5
81	MP-10	Z	.044	5
82	MP-11	Z	.015	3
83	MP-11	Z	.014	6
84	MP-12	Z	.038	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.014	1
2	MP-2	X	.01	2
3	MP-2	X	.009	2
4	MP-2	X	.015	4
5	MP-3	X	.008	1
6	MP-3	X	.006	4
7	MP-4	X	.009	1
8	MP-4	X	.011	2
9	MP-4	X	.015	2
10	MP-6	X	.022	1
11	MP-6	X	.01	2
12	MP-6	X	.009	2
13	MP-6	X	.012	4
14	MP-7	X	.009	1
15	MP-7	X	.007	4
16	MP-8	X	.017	1



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
17	MP-8	X	.011	2
18	MP-8	X	.015	2
19	MP-10	X	.032	1
20	MP-10	X	.007	2
21	MP-10	X	.005	2
22	MP-10	X	.016	4
23	MP-11	X	.011	1
24	MP-11	X	.01	4
25	MP-12	X	.028	1
26	MP-12	X	.009	2
27	MP-12	X	.011	2
28	MP-13	X	.023	1
29	MP-14	X	.023	1
30	MP-15	X	.016	1
31	MP-2	X	.014	5
32	MP-3	X	.008	3
33	MP-3	X	.006	6
34	MP-4	X	.009	4.5
35	MP-6	X	.022	5
36	MP-7	X	.009	3
37	MP-7	X	.007	6
38	MP-8	X	.017	4.5
39	MP-10	X	.032	5
40	MP-11	X	.011	3
41	MP-11	X	.01	6
42	MP-12	X	.028	4.5
43	MP-2	Z	.024	1
44	MP-2	Z	.018	2
45	MP-2	Z	.016	2
46	MP-2	Z	.025	4
47	MP-3	Z	.014	1
48	MP-3	Z	.01	4
49	MP-4	Z	.016	1
50	MP-4	Z	.019	2
51	MP-4	Z	.025	2
52	MP-6	Z	.038	1
53	MP-6	Z	.018	2
54	MP-6	Z	.016	2
55	MP-6	Z	.021	4
56	MP-7	Z	.015	1
57	MP-7	Z	.011	4
58	MP-8	Z	.029	1
59	MP-8	Z	.019	2
60	MP-8	Z	.025	2
61	MP-10	Z	.056	1
62	MP-10	Z	.013	2
63	MP-10	Z	.009	2
64	MP-10	Z	.028	4
65	MP-11	Z	.019	1
66	MP-11	Z	.017	4
67	MP-12	Z	.049	1
68	MP-12	Z	.016	2



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
69	MP-12	Z	.019	2
70	MP-13	Z	.04	1
71	MP-14	Z	.04	1
72	MP-15	Z	.028	1
73	MP-2	Z	.024	5
74	MP-3	Z	.014	3
75	MP-3	Z	.01	6
76	MP-4	Z	.016	4.5
77	MP-6	Z	.038	5
78	MP-7	Z	.015	3
79	MP-7	Z	.011	6
80	MP-8	Z	.029	4.5
81	MP-10	Z	.056	5
82	MP-11	Z	.019	3
83	MP-11	Z	.017	6
84	MP-12	Z	.049	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	Z	.025	1
2	MP-2	Z	.015	2
3	MP-2	Z	.011	2
4	MP-2	Z	.022	4
5	MP-3	Z	.016	1
6	MP-3	Z	.011	4
7	MP-4	Z	.016	1
8	MP-4	Z	.018	2
9	MP-4	Z	.022	2
10	MP-6	Z	.037	1
11	MP-6	Z	.015	2
12	MP-6	Z	.011	2
13	MP-6	Z	.022	4
14	MP-7	Z	.016	1
15	MP-7	Z	.011	4
16	MP-8	Z	.026	1
17	MP-8	Z	.018	2
18	MP-8	Z	.022	2
19	MP-10	Z	.037	1
20	MP-10	Z	.015	2
21	MP-10	Z	.011	2
22	MP-10	Z	.022	4
23	MP-11	Z	.016	1
24	MP-11	Z	.011	4
25	MP-12	Z	.026	1
26	MP-12	Z	.018	2
27	MP-12	Z	.022	2
28	MP-13	Z	.05	1
29	MP-14	Z	.05	1
30	MP-15	Z	.05	1
31	MP-2	Z	.025	5
32	MP-3	Z	.016	3



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
33	MP-3	Z	.011	6
34	MP-4	Z	.016	4.5
35	MP-6	Z	.037	5
36	MP-7	Z	.016	3
37	MP-7	Z	.011	6
38	MP-8	Z	.026	4.5
39	MP-10	Z	.037	5
40	MP-11	Z	.016	3
41	MP-11	Z	.011	6
42	MP-12	Z	.026	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.017	1
2	MP-2	X	-.01	2
3	MP-2	X	-.009	2
4	MP-2	X	-.015	4
5	MP-3	X	-.009	1
6	MP-3	X	-.007	4
7	MP-4	X	-.012	1
8	MP-4	X	-.011	2
9	MP-4	X	-.015	2
10	MP-6	X	-.032	1
11	MP-6	X	-.007	2
12	MP-6	X	-.005	2
13	MP-6	X	-.016	4
14	MP-7	X	-.011	1
15	MP-7	X	-.01	4
16	MP-8	X	-.028	1
17	MP-8	X	-.009	2
18	MP-8	X	-.011	2
19	MP-10	X	-.022	1
20	MP-10	X	-.01	2
21	MP-10	X	-.009	2
22	MP-10	X	-.012	4
23	MP-11	X	-.009	1
24	MP-11	X	-.007	4
25	MP-12	X	-.017	1
26	MP-12	X	-.011	2
27	MP-12	X	-.015	2
28	MP-13	X	-.023	1
29	MP-14	X	-.016	1
30	MP-15	X	-.023	1
31	MP-2	X	-.017	5
32	MP-3	X	-.009	3
33	MP-3	X	-.007	6
34	MP-4	X	-.012	4.5
35	MP-6	X	-.032	5
36	MP-7	X	-.011	3
37	MP-7	X	-.01	6
38	MP-8	X	-.028	4.5



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
39	MP-10	X	-.022	5
40	MP-11	X	-.009	3
41	MP-11	X	-.007	6
42	MP-12	X	-.017	4.5
43	MP-2	Z	.029	1
44	MP-2	Z	.018	2
45	MP-2	Z	.016	2
46	MP-2	Z	.025	4
47	MP-3	Z	.016	1
48	MP-3	Z	.013	4
49	MP-4	Z	.021	1
50	MP-4	Z	.019	2
51	MP-4	Z	.025	2
52	MP-6	Z	.056	1
53	MP-6	Z	.013	2
54	MP-6	Z	.009	2
55	MP-6	Z	.028	4
56	MP-7	Z	.019	1
57	MP-7	Z	.017	4
58	MP-8	Z	.049	1
59	MP-8	Z	.016	2
60	MP-8	Z	.019	2
61	MP-10	Z	.038	1
62	MP-10	Z	.018	2
63	MP-10	Z	.016	2
64	MP-10	Z	.021	4
65	MP-11	Z	.015	1
66	MP-11	Z	.011	4
67	MP-12	Z	.029	1
68	MP-12	Z	.019	2
69	MP-12	Z	.025	2
70	MP-13	Z	.04	1
71	MP-14	Z	.028	1
72	MP-15	Z	.04	1
73	MP-2	Z	.029	5
74	MP-3	Z	.016	3
75	MP-3	Z	.013	6
76	MP-4	Z	.021	4.5
77	MP-6	Z	.056	5
78	MP-7	Z	.019	3
79	MP-7	Z	.017	6
80	MP-8	Z	.049	4.5
81	MP-10	Z	.038	5
82	MP-11	Z	.015	3
83	MP-11	Z	.011	6
84	MP-12	Z	.029	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.028	1
2	MP-2	X	-.013	2



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
3	MP-2	X	-.011	2
4	MP-2	X	-.019	4
5	MP-3	X	-.014	1
6	MP-3	X	-.012	4
7	MP-4	X	-.021	1
8	MP-4	X	-.015	2
9	MP-4	X	-.019	2
10	MP-6	X	-.044	1
11	MP-6	X	-.011	2
12	MP-6	X	-.008	2
13	MP-6	X	-.022	4
14	MP-7	X	-.015	1
15	MP-7	X	-.014	4
16	MP-8	X	-.038	1
17	MP-8	X	-.013	2
18	MP-8	X	-.016	2
19	MP-10	X	-.027	1
20	MP-10	X	-.016	2
21	MP-10	X	-.014	2
22	MP-10	X	-.016	4
23	MP-11	X	-.012	1
24	MP-11	X	-.008	4
25	MP-12	X	-.02	1
26	MP-12	X	-.017	2
27	MP-12	X	-.022	2
28	MP-13	X	-.029	1
29	MP-14	X	-.023	1
30	MP-15	X	-.035	1
31	MP-2	X	-.028	5
32	MP-3	X	-.014	3
33	MP-3	X	-.012	6
34	MP-4	X	-.021	4.5
35	MP-6	X	-.044	5
36	MP-7	X	-.015	3
37	MP-7	X	-.014	6
38	MP-8	X	-.038	4.5
39	MP-10	X	-.027	5
40	MP-11	X	-.012	3
41	MP-11	X	-.008	6
42	MP-12	X	-.02	4.5
43	MP-2	Z	.028	1
44	MP-2	Z	.013	2
45	MP-2	Z	.011	2
46	MP-2	Z	.019	4
47	MP-3	Z	.014	1
48	MP-3	Z	.012	4
49	MP-4	Z	.021	1
50	MP-4	Z	.015	2
51	MP-4	Z	.019	2
52	MP-6	Z	.044	1
53	MP-6	Z	.011	2
54	MP-6	Z	.008	2





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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
55	MP-6	Z	.022	4
56	MP-7	Z	.015	1
57	MP-7	Z	.014	4
58	MP-8	Z	.038	1
59	MP-8	Z	.013	2
60	MP-8	Z	.016	2
61	MP-10	Z	.027	1
62	MP-10	Z	.016	2
63	MP-10	Z	.014	2
64	MP-10	Z	.016	4
65	MP-11	Z	.012	1
66	MP-11	Z	.008	4
67	MP-12	Z	.02	1
68	MP-12	Z	.017	2
69	MP-12	Z	.022	2
70	MP-13	Z	.029	1
71	MP-14	Z	.023	1
72	MP-15	Z	.035	1
73	MP-2	Z	.028	5
74	MP-3	Z	.014	3
75	MP-3	Z	.012	6
76	MP-4	Z	.021	4.5
77	MP-6	Z	.044	5
78	MP-7	Z	.015	3
79	MP-7	Z	.014	6
80	MP-8	Z	.038	4.5
81	MP-10	Z	.027	5
82	MP-11	Z	.012	3
83	MP-11	Z	.008	6
84	MP-12	Z	.02	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.038	1
2	MP-2	X	-.015	2
3	MP-2	X	-.012	2
4	MP-2	X	-.021	4
5	MP-3	X	-.018	1
6	MP-3	X	-.016	4
7	MP-4	X	-.029	1
8	MP-4	X	-.017	2
9	MP-4	X	-.021	2
10	MP-6	X	-.05	1
11	MP-6	X	-.015	2
12	MP-6	X	-.012	2
13	MP-6	X	-.025	4
14	MP-7	X	-.018	1
15	MP-7	X	-.015	4
16	MP-8	X	-.042	1
17	MP-8	X	-.017	2
18	MP-8	X	-.021	2



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
19	MP-10	X	-.032	1
20	MP-10	X	-.019	2
21	MP-10	X	-.018	2
22	MP-10	X	-.019	4
23	MP-11	X	-.014	1
24	MP-11	X	-.009	4
25	MP-12	X	-.022	1
26	MP-12	X	-.021	2
27	MP-12	X	-.027	2
28	MP-13	X	-.032	1
29	MP-14	X	-.032	1
30	MP-15	X	-.044	1
31	MP-2	X	-.038	5
32	MP-3	X	-.018	3
33	MP-3	X	-.016	6
34	MP-4	X	-.029	4.5
35	MP-6	X	-.05	5
36	MP-7	X	-.018	3
37	MP-7	X	-.015	6
38	MP-8	X	-.042	4.5
39	MP-10	X	-.032	5
40	MP-11	X	-.014	3
41	MP-11	X	-.009	6
42	MP-12	X	-.022	4.5
43	MP-2	Z	.022	1
44	MP-2	Z	.008	2
45	MP-2	Z	.007	2
46	MP-2	Z	.012	4
47	MP-3	Z	.011	1
48	MP-3	Z	.009	4
49	MP-4	Z	.017	1
50	MP-4	Z	.01	2
51	MP-4	Z	.012	2
52	MP-6	Z	.029	1
53	MP-6	Z	.008	2
54	MP-6	Z	.007	2
55	MP-6	Z	.015	4
56	MP-7	Z	.01	1
57	MP-7	Z	.009	4
58	MP-8	Z	.024	1
59	MP-8	Z	.01	2
60	MP-8	Z	.012	2
61	MP-10	Z	.018	1
62	MP-10	Z	.011	2
63	MP-10	Z	.01	2
64	MP-10	Z	.011	4
65	MP-11	Z	.008	1
66	MP-11	Z	.005	4
67	MP-12	Z	.013	1
68	MP-12	Z	.012	2
69	MP-12	Z	.016	2
70	MP-13	Z	.018	1



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
71	MP-14	Z	.018	1
72	MP-15	Z	.025	1
73	MP-2	Z	.022	5
74	MP-3	Z	.011	3
75	MP-3	Z	.009	6
76	MP-4	Z	.017	4.5
77	MP-6	Z	.029	5
78	MP-7	Z	.01	3
79	MP-7	Z	.009	6
80	MP-8	Z	.024	4.5
81	MP-10	Z	.018	5
82	MP-11	Z	.008	3
83	MP-11	Z	.005	6
84	MP-12	Z	.013	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.054	1
2	MP-2	X	-.06	2
3	MP-2	X	-.044	2
4	MP-2	X	-.053	4
5	MP-3	X	-.042	1
6	MP-3	X	-.033	4
7	MP-4	X	-.038	1
8	MP-4	X	-.071	2
9	MP-4	X	-.053	2
10	MP-6	X	-.065	1
11	MP-6	X	-.06	2
12	MP-6	X	-.044	2
13	MP-6	X	-.053	4
14	MP-7	X	-.042	1
15	MP-7	X	-.033	4
16	MP-8	X	-.045	1
17	MP-8	X	-.071	2
18	MP-8	X	-.053	2
19	MP-10	X	-.065	1
20	MP-10	X	-.06	2
21	MP-10	X	-.044	2
22	MP-10	X	-.053	4
23	MP-11	X	-.042	1
24	MP-11	X	-.033	4
25	MP-12	X	-.045	1
26	MP-12	X	-.071	2
27	MP-12	X	-.053	2
28	MP-13	X	-.026	1
29	MP-14	X	-.026	1
30	MP-15	X	-.026	1
31	MP-2	X	-.054	5
32	MP-3	X	-.042	3
33	MP-3	X	-.033	6
34	MP-4	X	-.038	4.5



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
35	MP-6	X	-.065	5
36	MP-7	X	-.042	3
37	MP-7	X	-.033	6
38	MP-8	X	-.045	4.5
39	MP-10	X	-.065	5
40	MP-11	X	-.042	3
41	MP-11	X	-.033	6
42	MP-12	X	-.045	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	Z	-.054	1
2	MP-2	Z	-.06	2
3	MP-2	Z	-.044	2
4	MP-2	Z	-.053	4
5	MP-3	Z	-.042	1
6	MP-3	Z	-.033	4
7	MP-4	Z	-.038	1
8	MP-4	Z	-.071	2
9	MP-4	Z	-.053	2
10	MP-6	Z	-.065	1
11	MP-6	Z	-.06	2
12	MP-6	Z	-.044	2
13	MP-6	Z	-.053	4
14	MP-7	Z	-.042	1
15	MP-7	Z	-.033	4
16	MP-8	Z	-.045	1
17	MP-8	Z	-.071	2
18	MP-8	Z	-.053	2
19	MP-10	Z	-.065	1
20	MP-10	Z	-.06	2
21	MP-10	Z	-.044	2
22	MP-10	Z	-.053	4
23	MP-11	Z	-.042	1
24	MP-11	Z	-.033	4
25	MP-12	Z	-.045	1
26	MP-12	Z	-.071	2
27	MP-12	Z	-.053	2
28	MP-13	Z	-.026	1
29	MP-14	Z	-.026	1
30	MP-15	Z	-.026	1
31	MP-2	Z	-.054	5
32	MP-3	Z	-.042	3
33	MP-3	Z	-.033	6
34	MP-4	Z	-.038	4.5
35	MP-6	Z	-.065	5
36	MP-7	Z	-.042	3
37	MP-7	Z	-.033	6
38	MP-8	Z	-.045	4.5
39	MP-10	Z	-.065	5
40	MP-11	Z	-.042	3



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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
41	MP-11	Z	-033 6
42	MP-12	Z	-045 4.5

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	CP-1	X	-006	-006	0 %100
2	CP-2	X	-006	-006	0 %100
3	CP-3	X	-012	-012	0 %100
4	FFTH-1	X	-022	-022	0 %100
5	FFTH-2	X	-011	-011	0 %100
6	FFTH-3	X	-011	-011	0 %100
7	GSC1	X	-016	-016	0 %100
8	GSC2	X	-016	-016	0 %100
9	GSC3	X	0	0	0 %100
10	GSOP1	X	-022	-022	0 %100
11	GSOP2	X	-009	-009	0 %100
12	GSOP3	X	-009	-009	0 %100
13	K1	X	-018	-018	0 %100
14	K2	X	-018	-018	0 %100
15	K3	X	-018	-018	0 %100
16	MP-1	X	-012	-012	0 %100
17	MP-2	X	-012	-012	0 %100
18	MP-3	X	-012	-012	0 %100
19	MP-4	X	-012	-012	0 %100
20	MP-5	X	-012	-012	0 %100
21	MP-6	X	-012	-012	0 %100
22	MP-7	X	-012	-012	0 %100
23	MP-8	X	-012	-012	0 %100
24	MP-9	X	-012	-012	0 %100
25	MP-10	X	-012	-012	0 %100
26	MP-11	X	-012	-012	0 %100
27	MP-12	X	-012	-012	0 %100
28	MP-13	X	-01	-01	0 %100
29	MP-14	X	-01	-01	0 %100
30	MP-15	X	-01	-01	0 %100
31	SA1	X	0	0	0 %100
32	SA2	X	-017	-017	0 %100
33	SA3	X	-017	-017	0 %100
34	SR-1	X	-012	-012	0 %100
35	SR-2	X	-006	-006	0 %100
36	SR-3	X	-006	-006	0 %100
37	SRB-1	X	-004	-004	0 %100
38	SRB-2	X	-004	-004	0 %100
39	SRB-3	X	-01	-01	0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	CP-1	X	-008	-008	0 %100
2	CP-2	X	0	0	0 %100
3	CP-3	X	-009	-009	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
4	FFTH-1	X	-016	-016	0 %100
5	FFTH-2	X	-016	-016	0 %100
6	FFTH-3	X	0	0	0 %100
7	GSC1	X	-008	-008	0 %100
8	GSC2	X	-016	-016	0 %100
9	GSC3	X	-006	-006	0 %100
10	GSOP1	X	-016	-016	0 %100
11	GSOP2	X	-014	-014	0 %100
12	GSOP3	X	0	0	0 %100
13	K1	X	-016	-016	0 %100
14	K2	X	-016	-016	0 %100
15	K3	X	-016	-016	0 %100
16	MP-1	X	-01	-01	0 %100
17	MP-2	X	-01	-01	0 %100
18	MP-3	X	-01	-01	0 %100
19	MP-4	X	-01	-01	0 %100
20	MP-5	X	-01	-01	0 %100
21	MP-6	X	-01	-01	0 %100
22	MP-7	X	-01	-01	0 %100
23	MP-8	X	-01	-01	0 %100
24	MP-9	X	-01	-01	0 %100
25	MP-10	X	-01	-01	0 %100
26	MP-11	X	-01	-01	0 %100
27	MP-12	X	-01	-01	0 %100
28	MP-13	X	-008	-008	0 %100
29	MP-14	X	-008	-008	0 %100
30	MP-15	X	-008	-008	0 %100
31	SA1	X	-008	-008	0 %100
32	SA2	X	-009	-009	0 %100
33	SA3	X	-017	-017	0 %100
34	SR-1	X	-009	-009	0 %100
35	SR-2	X	0	0	0 %100
36	SR-3	X	-009	-009	0 %100
37	SRB-1	X	-006	-006	0 %100
38	SRB-2	X	0	0	0 %100
39	SRB-3	X	-008	-008	0 %100
40	CP-1	Z	-005	-005	0 %100
41	CP-2	Z	0	0	0 %100
42	CP-3	Z	-005	-005	0 %100
43	FFTH-1	Z	-01	-01	0 %100
44	FFTH-2	Z	-01	-01	0 %100
45	FFTH-3	Z	0	0	0 %100
46	GSC1	Z	-004	-004	0 %100
47	GSC2	Z	-008	-008	0 %100
48	GSC3	Z	-005	-005	0 %100
49	GSOP1	Z	-01	-01	0 %100
50	GSOP2	Z	-009	-009	0 %100
51	GSOP3	Z	0	0	0 %100
52	K1	Z	-009	-009	0 %100
53	K2	Z	-009	-009	0 %100
54	K3	Z	-009	-009	0 %100
55	MP-1	Z	-006	-006	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft....End Location[ft....
56	MP-2	Z	-0.06	0 %100
57	MP-3	Z	-0.06	0 %100
58	MP-4	Z	-0.06	0 %100
59	MP-5	Z	-0.06	0 %100
60	MP-6	Z	-0.06	0 %100
61	MP-7	Z	-0.06	0 %100
62	MP-8	Z	-0.06	0 %100
63	MP-9	Z	-0.06	0 %100
64	MP-10	Z	-0.06	0 %100
65	MP-11	Z	-0.06	0 %100
66	MP-12	Z	-0.06	0 %100
67	MP-13	Z	-0.05	0 %100
68	MP-14	Z	-0.05	0 %100
69	MP-15	Z	-0.05	0 %100
70	SA1	Z	-0.05	0 %100
71	SA2	Z	-0.05	0 %100
72	SA3	Z	-0.09	0 %100
73	SR-1	Z	-0.05	0 %100
74	SR-2	Z	0	0 %100
75	SR-3	Z	-0.05	0 %100
76	SRB-1	Z	-0.05	0 %100
77	SRB-2	Z	0	0 %100
78	SRB-3	Z	-0.05	0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft....End Location[ft....
1	CP-1	X	-0.08	0 %100
2	CP-2	X	-0.02	0 %100
3	CP-3	X	-0.06	0 %100
4	FFTH-1	X	-0.11	0 %100
5	FFTH-2	X	-0.15	0 %100
6	FFTH-3	X	-0.04	0 %100
7	GSC1	X	-0.03	0 %100
8	GSC2	X	-0.12	0 %100
9	GSC3	X	-0.07	0 %100
10	GSOP1	X	-0.11	0 %100
11	GSOP2	X	-0.12	0 %100
12	GSOP3	X	-0.03	0 %100
13	K1	X	-0.13	0 %100
14	K2	X	-0.13	0 %100
15	K3	X	-0.13	0 %100
16	MP-1	X	-0.08	0 %100
17	MP-2	X	-0.08	0 %100
18	MP-3	X	-0.08	0 %100
19	MP-4	X	-0.08	0 %100
20	MP-5	X	-0.08	0 %100
21	MP-6	X	-0.08	0 %100
22	MP-7	X	-0.08	0 %100
23	MP-8	X	-0.08	0 %100
24	MP-9	X	-0.08	0 %100
25	MP-10	X	-0.08	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft....End Location[ft....
26	MP-11	X	-0.08	0 %100
27	MP-12	X	-0.08	0 %100
28	MP-13	X	-0.07	0 %100
29	MP-14	X	-0.07	0 %100
30	MP-15	X	-0.07	0 %100
31	SA1	X	-0.09	0 %100
32	SA2	X	-0.04	0 %100
33	SA3	X	-0.13	0 %100
34	SR-1	X	-0.06	0 %100
35	SR-2	X	-0.02	0 %100
36	SR-3	X	-0.08	0 %100
37	SRB-1	X	-0.06	0 %100
38	SRB-2	X	-0.02	0 %100
39	SRB-3	X	-0.05	0 %100
40	CP-1	Z	-0.08	0 %100
41	CP-2	Z	-0.02	0 %100
42	CP-3	Z	-0.06	0 %100
43	FFTH-1	Z	-0.11	0 %100
44	FFTH-2	Z	-0.15	0 %100
45	FFTH-3	Z	-0.04	0 %100
46	GSC1	Z	-0.03	0 %100
47	GSC2	Z	-0.11	0 %100
48	GSC3	Z	-0.09	0 %100
49	GSOP1	Z	-0.11	0 %100
50	GSOP2	Z	-0.15	0 %100
51	GSOP3	Z	-0.04	0 %100
52	K1	Z	-0.13	0 %100
53	K2	Z	-0.13	0 %100
54	K3	Z	-0.13	0 %100
55	MP-1	Z	-0.08	0 %100
56	MP-2	Z	-0.08	0 %100
57	MP-3	Z	-0.08	0 %100
58	MP-4	Z	-0.08	0 %100
59	MP-5	Z	-0.08	0 %100
60	MP-6	Z	-0.08	0 %100
61	MP-7	Z	-0.08	0 %100
62	MP-8	Z	-0.08	0 %100
63	MP-9	Z	-0.08	0 %100
64	MP-10	Z	-0.08	0 %100
65	MP-11	Z	-0.08	0 %100
66	MP-12	Z	-0.08	0 %100
67	MP-13	Z	-0.07	0 %100
68	MP-14	Z	-0.07	0 %100
69	MP-15	Z	-0.07	0 %100
70	SA1	Z	-0.1	0 %100
71	SA2	Z	-0.03	0 %100
72	SA3	Z	-0.12	0 %100
73	SR-1	Z	-0.06	0 %100
74	SR-2	Z	-0.02	0 %100
75	SR-3	Z	-0.08	0 %100
76	SRB-1	Z	-0.07	0 %100
77	SRB-2	Z	-0.02	0 %100



Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
 Job Number : TEP No. 25666.598873  
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**Member Distributed Loads (BLC 4 : 45 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft....]	End Location[ft....]
78	SRB-3	Z	-0.05	-0.05	0 %100

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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft....]	End Location[ft....]
1	CP-1	X	-0.06	-0.06	0 %100
2	CP-2	X	-0.03	-0.03	0 %100
3	CP-3	X	-0.03	-0.03	0 %100
4	FFTH-1	X	-0.05	-0.05	0 %100
5	FFTH-2	X	-0.11	-0.11	0 %100
6	FFTH-3	X	-0.05	-0.05	0 %100
7	GSC1	X	0	0	0 %100
8	GSC2	X	-0.08	-0.08	0 %100
9	GSC3	X	-0.06	-0.06	0 %100
10	GSOP1	X	-0.05	-0.05	0 %100
11	GSOP2	X	-0.09	-0.09	0 %100
12	GSOP3	X	-0.05	-0.05	0 %100
13	K1	X	-0.09	-0.09	0 %100
14	K2	X	-0.09	-0.09	0 %100
15	K3	X	-0.09	-0.09	0 %100
16	MP-1	X	-0.06	-0.06	0 %100
17	MP-2	X	-0.06	-0.06	0 %100
18	MP-3	X	-0.06	-0.06	0 %100
19	MP-4	X	-0.06	-0.06	0 %100
20	MP-5	X	-0.06	-0.06	0 %100
21	MP-6	X	-0.06	-0.06	0 %100
22	MP-7	X	-0.06	-0.06	0 %100
23	MP-8	X	-0.06	-0.06	0 %100
24	MP-9	X	-0.06	-0.06	0 %100
25	MP-10	X	-0.06	-0.06	0 %100
26	MP-11	X	-0.06	-0.06	0 %100
27	MP-12	X	-0.06	-0.06	0 %100
28	MP-13	X	-0.05	-0.05	0 %100
29	MP-14	X	-0.05	-0.05	0 %100
30	MP-15	X	-0.05	-0.05	0 %100
31	SA1	X	-0.08	-0.08	0 %100
32	SA2	X	0	0	0 %100
33	SA3	X	-0.09	-0.09	0 %100
34	SR-1	X	-0.03	-0.03	0 %100
35	SR-2	X	-0.03	-0.03	0 %100
36	SR-3	X	-0.06	-0.06	0 %100
37	SRB-1	X	-0.04	-0.04	0 %100
38	SRB-2	X	-0.02	-0.02	0 %100
39	SRB-3	X	-0.03	-0.03	0 %100
40	CP-1	Z	-0.01	-0.01	0 %100
41	CP-2	Z	-0.05	-0.05	0 %100
42	CP-3	Z	-0.05	-0.05	0 %100
43	FFTH-1	Z	-0.01	-0.01	0 %100
44	FFTH-2	Z	-0.19	-0.19	0 %100
45	FFTH-3	Z	-0.01	-0.01	0 %100
46	GSC1	Z	0	0	0 %100
47	GSC2	Z	-0.12	-0.12	0 %100



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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft....]	End Location[ft....]
48	GSC3	Z	-0.14	-0.14	0 %100
49	GSOP1	Z	-0.01	-0.01	0 %100
50	GSOP2	Z	-0.19	-0.19	0 %100
51	GSOP3	Z	-0.09	-0.09	0 %100
52	K1	Z	-0.16	-0.16	0 %100
53	K2	Z	-0.16	-0.16	0 %100
54	K3	Z	-0.16	-0.16	0 %100
55	MP-1	Z	-0.01	-0.01	0 %100
56	MP-2	Z	-0.01	-0.01	0 %100
57	MP-3	Z	-0.01	-0.01	0 %100
58	MP-4	Z	-0.01	-0.01	0 %100
59	MP-5	Z	-0.01	-0.01	0 %100
60	MP-6	Z	-0.01	-0.01	0 %100
61	MP-7	Z	-0.01	-0.01	0 %100
62	MP-8	Z	-0.01	-0.01	0 %100
63	MP-9	Z	-0.01	-0.01	0 %100
64	MP-10	Z	-0.01	-0.01	0 %100
65	MP-11	Z	-0.01	-0.01	0 %100
66	MP-12	Z	-0.01	-0.01	0 %100
67	MP-13	Z	-0.008	-0.008	0 %100
68	MP-14	Z	-0.008	-0.008	0 %100
69	MP-15	Z	-0.008	-0.008	0 %100
70	SA1	Z	-0.15	-0.15	0 %100
71	SA2	Z	0	0	0 %100
72	SA3	Z	-0.14	-0.14	0 %100
73	SR-1	Z	-0.05	-0.05	0 %100
74	SR-2	Z	-0.05	-0.05	0 %100
75	SR-3	Z	-0.01	-0.01	0 %100
76	SRB-1	Z	-0.09	-0.09	0 %100
77	SRB-2	Z	-0.05	-0.05	0 %100
78	SRB-3	Z	-0.05	-0.05	0 %100

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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft....]	End Location[ft....]
1	CP-1	Z	-0.01	-0.01	0 %100
2	CP-2	Z	-0.01	-0.01	0 %100
3	CP-3	Z	0	0	0 %100
4	FFTH-1	Z	0	0	0 %100
5	FFTH-2	Z	-0.19	-0.19	0 %100
6	FFTH-3	Z	-0.19	-0.19	0 %100
7	GSC1	Z	-0.08	-0.08	0 %100
8	GSC2	Z	-0.08	-0.08	0 %100
9	GSC3	Z	-0.19	-0.19	0 %100
10	GSOP1	Z	0	0	0 %100
11	GSOP2	Z	-0.19	-0.19	0 %100
12	GSOP3	Z	-0.19	-0.19	0 %100
13	K1	Z	-0.18	-0.18	0 %100
14	K2	Z	-0.18	-0.18	0 %100
15	K3	Z	-0.18	-0.18	0 %100
16	MP-1	Z	-0.12	-0.12	0 %100
17	MP-2	Z	-0.12	-0.12	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft....	
18	MP-3	Z	-0.12	0	%100
19	MP-4	Z	-0.12	0	%100
20	MP-5	Z	-0.12	0	%100
21	MP-6	Z	-0.12	0	%100
22	MP-7	Z	-0.12	0	%100
23	MP-8	Z	-0.12	0	%100
24	MP-9	Z	-0.12	0	%100
25	MP-10	Z	-0.12	0	%100
26	MP-11	Z	-0.12	0	%100
27	MP-12	Z	-0.12	0	%100
28	MP-13	Z	-0.1	0	%100
29	MP-14	Z	-0.1	0	%100
30	MP-15	Z	-0.1	0	%100
31	SA1	Z	-0.2	0	%100
32	SA2	Z	-0.009	0	%100
33	SA3	Z	-0.009	0	%100
34	SR-1	Z	0	0	%100
35	SR-2	Z	-0.1	0	%100
36	SR-3	Z	-0.1	0	%100
37	SRB-1	Z	-0.009	0	%100
38	SRB-2	Z	-0.009	0	%100
39	SRB-3	Z	0	0	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft....	
1	CP-1	X	.003	0	%100
2	CP-2	X	.006	0	%100
3	CP-3	X	.003	0	%100
4	FFTH-1	X	.005	0	%100
5	FFTH-2	X	.005	0	%100
6	FFTH-3	X	.011	0	%100
7	GSC1	X	.008	0	%100
8	GSC2	X	0	0	%100
9	GSC3	X	.006	0	%100
10	GSOP1	X	.005	0	%100
11	GSOP2	X	.005	0	%100
12	GSOP3	X	.009	0	%100
13	K1	X	.009	0	%100
14	K2	X	.009	0	%100
15	K3	X	.009	0	%100
16	MP-1	X	.006	0	%100
17	MP-2	X	.006	0	%100
18	MP-3	X	.006	0	%100
19	MP-4	X	.006	0	%100
20	MP-5	X	.006	0	%100
21	MP-6	X	.006	0	%100
22	MP-7	X	.006	0	%100
23	MP-8	X	.006	0	%100
24	MP-9	X	.006	0	%100
25	MP-10	X	.006	0	%100
26	MP-11	X	.006	0	%100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft....	
27	MP-12	X	.006	0	%100
28	MP-13	X	.005	0	%100
29	MP-14	X	.005	0	%100
30	MP-15	X	.005	0	%100
31	SA1	X	.008	0	%100
32	SA2	X	.009	0	%100
33	SA3	X	0	0	%100
34	SR-1	X	.003	0	%100
35	SR-2	X	.006	0	%100
36	SR-3	X	.003	0	%100
37	SRB-1	X	.002	0	%100
38	SRB-2	X	.004	0	%100
39	SRB-3	X	.003	0	%100
40	CP-1	Z	-0.005	0	%100
41	CP-2	Z	-0.1	0	%100
42	CP-3	Z	-0.005	0	%100
43	FFTH-1	Z	-0.1	0	%100
44	FFTH-2	Z	-0.1	0	%100
45	FFTH-3	Z	-0.19	0	%100
46	GSC1	Z	-0.12	0	%100
47	GSC2	Z	0	0	%100
48	GSC3	Z	-0.14	0	%100
49	GSOP1	Z	-0.1	0	%100
50	GSOP2	Z	-0.009	0	%100
51	GSOP3	Z	-0.19	0	%100
52	K1	Z	-0.16	0	%100
53	K2	Z	-0.16	0	%100
54	K3	Z	-0.16	0	%100
55	MP-1	Z	-0.1	0	%100
56	MP-2	Z	-0.1	0	%100
57	MP-3	Z	-0.1	0	%100
58	MP-4	Z	-0.1	0	%100
59	MP-5	Z	-0.1	0	%100
60	MP-6	Z	-0.1	0	%100
61	MP-7	Z	-0.1	0	%100
62	MP-8	Z	-0.1	0	%100
63	MP-9	Z	-0.1	0	%100
64	MP-10	Z	-0.1	0	%100
65	MP-11	Z	-0.1	0	%100
66	MP-12	Z	-0.1	0	%100
67	MP-13	Z	-0.008	0	%100
68	MP-14	Z	-0.008	0	%100
69	MP-15	Z	-0.008	0	%100
70	SA1	Z	-0.15	0	%100
71	SA2	Z	-0.14	0	%100
72	SA3	Z	0	0	%100
73	SR-1	Z	-0.005	0	%100
74	SR-2	Z	-0.1	0	%100
75	SR-3	Z	-0.005	0	%100
76	SRB-1	Z	-0.005	0	%100
77	SRB-2	Z	-0.009	0	%100
78	SRB-3	Z	-0.005	0	%100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	CP-1	X	.002	.002	0 %100
2	CP-2	X	.008	.008	0 %100
3	CP-3	X	.006	.006	0 %100
4	FFTH-1	X	.011	.011	0 %100
5	FFTH-2	X	.004	.004	0 %100
6	FFTH-3	X	.015	.015	0 %100
7	GSC1	X	.012	.012	0 %100
8	GSC2	X	.003	.003	0 %100
9	GSC3	X	.007	.007	0 %100
10	GSOP1	X	.011	.011	0 %100
11	GSOP2	X	.003	.003	0 %100
12	GSOP3	X	.012	.012	0 %100
13	K1	X	.013	.013	0 %100
14	K2	X	.013	.013	0 %100
15	K3	X	.013	.013	0 %100
16	MP-1	X	.008	.008	0 %100
17	MP-2	X	.008	.008	0 %100
18	MP-3	X	.008	.008	0 %100
19	MP-4	X	.008	.008	0 %100
20	MP-5	X	.008	.008	0 %100
21	MP-6	X	.008	.008	0 %100
22	MP-7	X	.008	.008	0 %100
23	MP-8	X	.008	.008	0 %100
24	MP-9	X	.008	.008	0 %100
25	MP-10	X	.008	.008	0 %100
26	MP-11	X	.008	.008	0 %100
27	MP-12	X	.008	.008	0 %100
28	MP-13	X	.007	.007	0 %100
29	MP-14	X	.007	.007	0 %100
30	MP-15	X	.007	.007	0 %100
31	SA1	X	.009	.009	0 %100
32	SA2	X	.013	.013	0 %100
33	SA3	X	.004	.004	0 %100
34	SR-1	X	.006	.006	0 %100
35	SR-2	X	.008	.008	0 %100
36	SR-3	X	.002	.002	0 %100
37	SRB-1	X	.002	.002	0 %100
38	SRB-2	X	.006	.006	0 %100
39	SRB-3	X	.005	.005	0 %100
40	CP-1	Z	-.002	-.002	0 %100
41	CP-2	Z	-.008	-.008	0 %100
42	CP-3	Z	-.006	-.006	0 %100
43	FFTH-1	Z	-.011	-.011	0 %100
44	FFTH-2	Z	-.004	-.004	0 %100
45	FFTH-3	Z	-.015	-.015	0 %100
46	GSC1	Z	-.011	-.011	0 %100
47	GSC2	Z	-.003	-.003	0 %100
48	GSC3	Z	-.009	-.009	0 %100
49	GSOP1	Z	-.011	-.011	0 %100
50	GSOP2	Z	-.004	-.004	0 %100
51	GSOP3	Z	-.015	-.015	0 %100
52	K1	Z	-.013	-.013	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
53	K2	Z	-.013	-.013	0 %100
54	K3	Z	-.013	-.013	0 %100
55	MP-1	Z	-.008	-.008	0 %100
56	MP-2	Z	-.008	-.008	0 %100
57	MP-3	Z	-.008	-.008	0 %100
58	MP-4	Z	-.008	-.008	0 %100
59	MP-5	Z	-.008	-.008	0 %100
60	MP-6	Z	-.008	-.008	0 %100
61	MP-7	Z	-.008	-.008	0 %100
62	MP-8	Z	-.008	-.008	0 %100
63	MP-9	Z	-.008	-.008	0 %100
64	MP-10	Z	-.008	-.008	0 %100
65	MP-11	Z	-.008	-.008	0 %100
66	MP-12	Z	-.008	-.008	0 %100
67	MP-13	Z	-.007	-.007	0 %100
68	MP-14	Z	-.007	-.007	0 %100
69	MP-15	Z	-.007	-.007	0 %100
70	SA1	Z	-.01	-.01	0 %100
71	SA2	Z	-.012	-.012	0 %100
72	SA3	Z	-.003	-.003	0 %100
73	SR-1	Z	-.006	-.006	0 %100
74	SR-2	Z	-.008	-.008	0 %100
75	SR-3	Z	-.002	-.002	0 %100
76	SRB-1	Z	-.002	-.002	0 %100
77	SRB-2	Z	-.007	-.007	0 %100
78	SRB-3	Z	-.005	-.005	0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	CP-1	X	0	0	0 %100
2	CP-2	X	.008	.008	0 %100
3	CP-3	X	.009	.009	0 %100
4	FFTH-1	X	.016	.016	0 %100
5	FFTH-2	X	0	0	0 %100
6	FFTH-3	X	.016	.016	0 %100
7	GSC1	X	.016	.016	0 %100
8	GSC2	X	.008	.008	0 %100
9	GSC3	X	.006	.006	0 %100
10	GSOP1	X	.016	.016	0 %100
11	GSOP2	X	0	0	0 %100
12	GSOP3	X	.014	.014	0 %100
13	K1	X	.016	.016	0 %100
14	K2	X	.016	.016	0 %100
15	K3	X	.016	.016	0 %100
16	MP-1	X	.01	.01	0 %100
17	MP-2	X	.01	.01	0 %100
18	MP-3	X	.01	.01	0 %100
19	MP-4	X	.01	.01	0 %100
20	MP-5	X	.01	.01	0 %100
21	MP-6	X	.01	.01	0 %100
22	MP-7	X	.01	.01	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
23	MP-8	X	.01	.01 0 %100
24	MP-9	X	.01	.01 0 %100
25	MP-10	X	.01	.01 0 %100
26	MP-11	X	.01	.01 0 %100
27	MP-12	X	.01	.01 0 %100
28	MP-13	X	.008	.008 0 %100
29	MP-14	X	.008	.008 0 %100
30	MP-15	X	.008	.008 0 %100
31	SA1	X	.008	.008 0 %100
32	SA2	X	.017	.017 0 %100
33	SA3	X	.009	.009 0 %100
34	SR-1	X	.009	.009 0 %100
35	SR-2	X	.009	.009 0 %100
36	SR-3	X	0	0 0 %100
37	SRB-1	X	0	0 0 %100
38	SRB-2	X	.006	.006 0 %100
39	SRB-3	X	.008	.008 0 %100
40	CP-1	Z	0	0 0 %100
41	CP-2	Z	-.005	-.005 0 %100
42	CP-3	Z	-.005	-.005 0 %100
43	FFTH-1	Z	-.01	-.01 0 %100
44	FFTH-2	Z	0	0 0 %100
45	FFTH-3	Z	-.01	-.01 0 %100
46	GSC1	Z	-.008	-.008 0 %100
47	GSC2	Z	-.004	-.004 0 %100
48	GSC3	Z	-.005	-.005 0 %100
49	GSOP1	Z	-.01	-.01 0 %100
50	GSOP2	Z	0	0 0 %100
51	GSOP3	Z	-.009	-.009 0 %100
52	K1	Z	-.009	-.009 0 %100
53	K2	Z	-.009	-.009 0 %100
54	K3	Z	-.009	-.009 0 %100
55	MP-1	Z	-.006	-.006 0 %100
56	MP-2	Z	-.006	-.006 0 %100
57	MP-3	Z	-.006	-.006 0 %100
58	MP-4	Z	-.006	-.006 0 %100
59	MP-5	Z	-.006	-.006 0 %100
60	MP-6	Z	-.006	-.006 0 %100
61	MP-7	Z	-.006	-.006 0 %100
62	MP-8	Z	-.006	-.006 0 %100
63	MP-9	Z	-.006	-.006 0 %100
64	MP-10	Z	-.006	-.006 0 %100
65	MP-11	Z	-.006	-.006 0 %100
66	MP-12	Z	-.006	-.006 0 %100
67	MP-13	Z	-.005	-.005 0 %100
68	MP-14	Z	-.005	-.005 0 %100
69	MP-15	Z	-.005	-.005 0 %100
70	SA1	Z	-.005	-.005 0 %100
71	SA2	Z	-.009	-.009 0 %100
72	SA3	Z	-.005	-.005 0 %100
73	SR-1	Z	-.005	-.005 0 %100
74	SR-2	Z	-.005	-.005 0 %100



Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
 Job Number : TEP No. 25666.598873  
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
75	SR-3	Z	0	0 0 %100
76	SRB-1	Z	0	0 0 %100
77	SRB-2	Z	-.005	-.005 0 %100
78	SRB-3	Z	-.005	-.005 0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	CP-1	X	.006	.006 0 %100
2	CP-2	X	.006	.006 0 %100
3	CP-3	X	.012	.012 0 %100
4	FFTH-1	X	.022	.022 0 %100
5	FFTH-2	X	.011	.011 0 %100
6	FFTH-3	X	.011	.011 0 %100
7	GSC1	X	.016	.016 0 %100
8	GSC2	X	.016	.016 0 %100
9	GSC3	X	0	0 0 %100
10	GSOP1	X	.022	.022 0 %100
11	GSOP2	X	.009	.009 0 %100
12	GSOP3	X	.009	.009 0 %100
13	K1	X	.018	.018 0 %100
14	K2	X	.018	.018 0 %100
15	K3	X	.018	.018 0 %100
16	MP-1	X	.012	.012 0 %100
17	MP-2	X	.012	.012 0 %100
18	MP-3	X	.012	.012 0 %100
19	MP-4	X	.012	.012 0 %100
20	MP-5	X	.012	.012 0 %100
21	MP-6	X	.012	.012 0 %100
22	MP-7	X	.012	.012 0 %100
23	MP-8	X	.012	.012 0 %100
24	MP-9	X	.012	.012 0 %100
25	MP-10	X	.012	.012 0 %100
26	MP-11	X	.012	.012 0 %100
27	MP-12	X	.012	.012 0 %100
28	MP-13	X	.01	.01 0 %100
29	MP-14	X	.01	.01 0 %100
30	MP-15	X	.01	.01 0 %100
31	SA1	X	0	0 0 %100
32	SA2	X	.017	.017 0 %100
33	SA3	X	.017	.017 0 %100
34	SR-1	X	.012	.012 0 %100
35	SR-2	X	.006	.006 0 %100
36	SR-3	X	.006	.006 0 %100
37	SRB-1	X	.004	.004 0 %100
38	SRB-2	X	.004	.004 0 %100
39	SRB-3	X	.01	.01 0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	CP-1	X	.008	.008 0 %100
2	CP-2	X	0	0 0 %100





Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
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**Member Distributed Loads (BLC 11 : 210 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
3	CP-3	X	.009	.009 0 %100
4	FFTH-1	X	.016	.016 0 %100
5	FFTH-2	X	.016	.016 0 %100
6	FFTH-3	X	0	0 0 %100
7	GSC1	X	.008	.008 0 %100
8	GSC2	X	.016	.016 0 %100
9	GSC3	X	.006	.006 0 %100
10	GSOP1	X	.016	.016 0 %100
11	GSOP2	X	.014	.014 0 %100
12	GSOP3	X	0	0 0 %100
13	K1	X	.016	.016 0 %100
14	K2	X	.016	.016 0 %100
15	K3	X	.016	.016 0 %100
16	MP-1	X	.01	.01 0 %100
17	MP-2	X	.01	.01 0 %100
18	MP-3	X	.01	.01 0 %100
19	MP-4	X	.01	.01 0 %100
20	MP-5	X	.01	.01 0 %100
21	MP-6	X	.01	.01 0 %100
22	MP-7	X	.01	.01 0 %100
23	MP-8	X	.01	.01 0 %100
24	MP-9	X	.01	.01 0 %100
25	MP-10	X	.01	.01 0 %100
26	MP-11	X	.01	.01 0 %100
27	MP-12	X	.01	.01 0 %100
28	MP-13	X	.008	.008 0 %100
29	MP-14	X	.008	.008 0 %100
30	MP-15	X	.008	.008 0 %100
31	SA1	X	.008	.008 0 %100
32	SA2	X	.009	.009 0 %100
33	SA3	X	.017	.017 0 %100
34	SR-1	X	.009	.009 0 %100
35	SR-2	X	0	0 0 %100
36	SR-3	X	.009	.009 0 %100
37	SRB-1	X	.006	.006 0 %100
38	SRB-2	X	0	0 0 %100
39	SRB-3	X	.008	.008 0 %100
40	CP-1	Z	.005	.005 0 %100
41	CP-2	Z	0	0 0 %100
42	CP-3	Z	.005	.005 0 %100
43	FFTH-1	Z	.01	.01 0 %100
44	FFTH-2	Z	.01	.01 0 %100
45	FFTH-3	Z	0	0 0 %100
46	GSC1	Z	.004	.004 0 %100
47	GSC2	Z	.008	.008 0 %100
48	GSC3	Z	.005	.005 0 %100
49	GSOP1	Z	.01	.01 0 %100
50	GSOP2	Z	.009	.009 0 %100
51	GSOP3	Z	0	0 0 %100
52	K1	Z	.009	.009 0 %100
53	K2	Z	.009	.009 0 %100
54	K3	Z	.009	.009 0 %100



Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
 Job Number : TEP No. 25666.598873  
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
55	MP-1	Z	.006	.006 0 %100
56	MP-2	Z	.006	.006 0 %100
57	MP-3	Z	.006	.006 0 %100
58	MP-4	Z	.006	.006 0 %100
59	MP-5	Z	.006	.006 0 %100
60	MP-6	Z	.006	.006 0 %100
61	MP-7	Z	.006	.006 0 %100
62	MP-8	Z	.006	.006 0 %100
63	MP-9	Z	.006	.006 0 %100
64	MP-10	Z	.006	.006 0 %100
65	MP-11	Z	.006	.006 0 %100
66	MP-12	Z	.006	.006 0 %100
67	MP-13	Z	.005	.005 0 %100
68	MP-14	Z	.005	.005 0 %100
69	MP-15	Z	.005	.005 0 %100
70	SA1	Z	.005	.005 0 %100
71	SA2	Z	.005	.005 0 %100
72	SA3	Z	.009	.009 0 %100
73	SR-1	Z	.005	.005 0 %100
74	SR-2	Z	0	0 0 %100
75	SR-3	Z	.005	.005 0 %100
76	SRB-1	Z	.005	.005 0 %100
77	SRB-2	Z	0	0 0 %100
78	SRB-3	Z	.005	.005 0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	CP-1	X	.008	.008 0 %100
2	CP-2	X	.002	.002 0 %100
3	CP-3	X	.006	.006 0 %100
4	FFTH-1	X	.011	.011 0 %100
5	FFTH-2	X	.015	.015 0 %100
6	FFTH-3	X	.004	.004 0 %100
7	GSC1	X	.003	.003 0 %100
8	GSC2	X	.012	.012 0 %100
9	GSC3	X	.007	.007 0 %100
10	GSOP1	X	.011	.011 0 %100
11	GSOP2	X	.012	.012 0 %100
12	GSOP3	X	.003	.003 0 %100
13	K1	X	.013	.013 0 %100
14	K2	X	.013	.013 0 %100
15	K3	X	.013	.013 0 %100
16	MP-1	X	.008	.008 0 %100
17	MP-2	X	.008	.008 0 %100
18	MP-3	X	.008	.008 0 %100
19	MP-4	X	.008	.008 0 %100
20	MP-5	X	.008	.008 0 %100
21	MP-6	X	.008	.008 0 %100
22	MP-7	X	.008	.008 0 %100
23	MP-8	X	.008	.008 0 %100
24	MP-9	X	.008	.008 0 %100



Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
 Job Number : TEP No. 25666.598873  
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
25	MP-10	X	.008	.008 0 %100
26	MP-11	X	.008	.008 0 %100
27	MP-12	X	.008	.008 0 %100
28	MP-13	X	.007	.007 0 %100
29	MP-14	X	.007	.007 0 %100
30	MP-15	X	.007	.007 0 %100
31	SA1	X	.009	.009 0 %100
32	SA2	X	.004	.004 0 %100
33	SA3	X	.013	.013 0 %100
34	SR-1	X	.006	.006 0 %100
35	SR-2	X	.002	.002 0 %100
36	SR-3	X	.008	.008 0 %100
37	SRB-1	X	.006	.006 0 %100
38	SRB-2	X	.002	.002 0 %100
39	SRB-3	X	.005	.005 0 %100
40	CP-1	Z	.008	.008 0 %100
41	CP-2	Z	.002	.002 0 %100
42	CP-3	Z	.006	.006 0 %100
43	FFTH-1	Z	.011	.011 0 %100
44	FFTH-2	Z	.015	.015 0 %100
45	FFTH-3	Z	.004	.004 0 %100
46	GSC1	Z	.003	.003 0 %100
47	GSC2	Z	.011	.011 0 %100
48	GSC3	Z	.009	.009 0 %100
49	GSOP1	Z	.011	.011 0 %100
50	GSOP2	Z	.015	.015 0 %100
51	GSOP3	Z	.004	.004 0 %100
52	K1	Z	.013	.013 0 %100
53	K2	Z	.013	.013 0 %100
54	K3	Z	.013	.013 0 %100
55	MP-1	Z	.008	.008 0 %100
56	MP-2	Z	.008	.008 0 %100
57	MP-3	Z	.008	.008 0 %100
58	MP-4	Z	.008	.008 0 %100
59	MP-5	Z	.008	.008 0 %100
60	MP-6	Z	.008	.008 0 %100
61	MP-7	Z	.008	.008 0 %100
62	MP-8	Z	.008	.008 0 %100
63	MP-9	Z	.008	.008 0 %100
64	MP-10	Z	.008	.008 0 %100
65	MP-11	Z	.008	.008 0 %100
66	MP-12	Z	.008	.008 0 %100
67	MP-13	Z	.007	.007 0 %100
68	MP-14	Z	.007	.007 0 %100
69	MP-15	Z	.007	.007 0 %100
70	SA1	Z	.01	.01 0 %100
71	SA2	Z	.003	.003 0 %100
72	SA3	Z	.012	.012 0 %100
73	SR-1	Z	.006	.006 0 %100
74	SR-2	Z	.002	.002 0 %100
75	SR-3	Z	.008	.008 0 %100
76	SRB-1	Z	.007	.007 0 %100



Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
 Job Number : TEP No. 25666.598873  
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
77	SRB-2	Z	.002	.002 0 %100
78	SRB-3	Z	.005	.005 0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	CP-1	X	.006	.006 0 %100
2	CP-2	X	.003	.003 0 %100
3	CP-3	X	.003	.003 0 %100
4	FFTH-1	X	.005	.005 0 %100
5	FFTH-2	X	.011	.011 0 %100
6	FFTH-3	X	.005	.005 0 %100
7	GSC1	X	0	0 0 %100
8	GSC2	X	.008	.008 0 %100
9	GSC3	X	.006	.006 0 %100
10	GSOP1	X	.005	.005 0 %100
11	GSOP2	X	.009	.009 0 %100
12	GSOP3	X	.005	.005 0 %100
13	K1	X	.009	.009 0 %100
14	K2	X	.009	.009 0 %100
15	K3	X	.009	.009 0 %100
16	MP-1	X	.006	.006 0 %100
17	MP-2	X	.006	.006 0 %100
18	MP-3	X	.006	.006 0 %100
19	MP-4	X	.006	.006 0 %100
20	MP-5	X	.006	.006 0 %100
21	MP-6	X	.006	.006 0 %100
22	MP-7	X	.006	.006 0 %100
23	MP-8	X	.006	.006 0 %100
24	MP-9	X	.006	.006 0 %100
25	MP-10	X	.006	.006 0 %100
26	MP-11	X	.006	.006 0 %100
27	MP-12	X	.006	.006 0 %100
28	MP-13	X	.005	.005 0 %100
29	MP-14	X	.005	.005 0 %100
30	MP-15	X	.005	.005 0 %100
31	SA1	X	.008	.008 0 %100
32	SA2	X	0	0 0 %100
33	SA3	X	.009	.009 0 %100
34	SR-1	X	.003	.003 0 %100
35	SR-2	X	.003	.003 0 %100
36	SR-3	X	.006	.006 0 %100
37	SRB-1	X	.004	.004 0 %100
38	SRB-2	X	.002	.002 0 %100
39	SRB-3	X	.003	.003 0 %100
40	CP-1	Z	.01	.01 0 %100
41	CP-2	Z	.005	.005 0 %100
42	CP-3	Z	.005	.005 0 %100
43	FFTH-1	Z	.01	.01 0 %100
44	FFTH-2	Z	.019	.019 0 %100
45	FFTH-3	Z	.01	.01 0 %100
46	GSC1	Z	0	0 0 %100



Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
 Job Number : TEP No. 25666.598873  
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
47	GSC2	Z	.012	.012 0 %100
48	GSC3	Z	.014	.014 0 %100
49	GSOP1	Z	.01	.01 0 %100
50	GSOP2	Z	.019	.019 0 %100
51	GSOP3	Z	.009	.009 0 %100
52	K1	Z	.016	.016 0 %100
53	K2	Z	.016	.016 0 %100
54	K3	Z	.016	.016 0 %100
55	MP-1	Z	.01	.01 0 %100
56	MP-2	Z	.01	.01 0 %100
57	MP-3	Z	.01	.01 0 %100
58	MP-4	Z	.01	.01 0 %100
59	MP-5	Z	.01	.01 0 %100
60	MP-6	Z	.01	.01 0 %100
61	MP-7	Z	.01	.01 0 %100
62	MP-8	Z	.01	.01 0 %100
63	MP-9	Z	.01	.01 0 %100
64	MP-10	Z	.01	.01 0 %100
65	MP-11	Z	.01	.01 0 %100
66	MP-12	Z	.01	.01 0 %100
67	MP-13	Z	.008	.008 0 %100
68	MP-14	Z	.008	.008 0 %100
69	MP-15	Z	.008	.008 0 %100
70	SA1	Z	.015	.015 0 %100
71	SA2	Z	0	0 0 %100
72	SA3	Z	.014	.014 0 %100
73	SR-1	Z	.005	.005 0 %100
74	SR-2	Z	.005	.005 0 %100
75	SR-3	Z	.01	.01 0 %100
76	SRB-1	Z	.009	.009 0 %100
77	SRB-2	Z	.005	.005 0 %100
78	SRB-3	Z	.005	.005 0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	CP-1	Z	.01	.01 0 %100
2	CP-2	Z	.01	.01 0 %100
3	CP-3	Z	0	0 0 %100
4	FFTH-1	Z	0	0 0 %100
5	FFTH-2	Z	.019	.019 0 %100
6	FFTH-3	Z	.019	.019 0 %100
7	GSC1	Z	.008	.008 0 %100
8	GSC2	Z	.008	.008 0 %100
9	GSC3	Z	.019	.019 0 %100
10	GSOP1	Z	0	0 0 %100
11	GSOP2	Z	.019	.019 0 %100
12	GSOP3	Z	.019	.019 0 %100
13	K1	Z	.018	.018 0 %100
14	K2	Z	.018	.018 0 %100
15	K3	Z	.018	.018 0 %100
16	MP-1	Z	.012	.012 0 %100



Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
 Job Number : TEP No. 25666.598873  
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
17	MP-2	Z	.012	.012 0 %100
18	MP-3	Z	.012	.012 0 %100
19	MP-4	Z	.012	.012 0 %100
20	MP-5	Z	.012	.012 0 %100
21	MP-6	Z	.012	.012 0 %100
22	MP-7	Z	.012	.012 0 %100
23	MP-8	Z	.012	.012 0 %100
24	MP-9	Z	.012	.012 0 %100
25	MP-10	Z	.012	.012 0 %100
26	MP-11	Z	.012	.012 0 %100
27	MP-12	Z	.012	.012 0 %100
28	MP-13	Z	.01	.01 0 %100
29	MP-14	Z	.01	.01 0 %100
30	MP-15	Z	.01	.01 0 %100
31	SA1	Z	.02	.02 0 %100
32	SA2	Z	.009	.009 0 %100
33	SA3	Z	.009	.009 0 %100
34	SR-1	Z	0	0 0 %100
35	SR-2	Z	.01	.01 0 %100
36	SR-3	Z	.01	.01 0 %100
37	SRB-1	Z	.009	.009 0 %100
38	SRB-2	Z	.009	.009 0 %100
39	SRB-3	Z	0	0 0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	CP-1	X	-.003	-.003 0 %100
2	CP-2	X	-.006	-.006 0 %100
3	CP-3	X	-.003	-.003 0 %100
4	FFTH-1	X	-.005	-.005 0 %100
5	FFTH-2	X	-.005	-.005 0 %100
6	FFTH-3	X	-.011	-.011 0 %100
7	GSC1	X	-.008	-.008 0 %100
8	GSC2	X	0	0 0 %100
9	GSC3	X	-.006	-.006 0 %100
10	GSOP1	X	-.005	-.005 0 %100
11	GSOP2	X	-.005	-.005 0 %100
12	GSOP3	X	-.009	-.009 0 %100
13	K1	X	-.009	-.009 0 %100
14	K2	X	-.009	-.009 0 %100
15	K3	X	-.009	-.009 0 %100
16	MP-1	X	-.006	-.006 0 %100
17	MP-2	X	-.006	-.006 0 %100
18	MP-3	X	-.006	-.006 0 %100
19	MP-4	X	-.006	-.006 0 %100
20	MP-5	X	-.006	-.006 0 %100
21	MP-6	X	-.006	-.006 0 %100
22	MP-7	X	-.006	-.006 0 %100
23	MP-8	X	-.006	-.006 0 %100
24	MP-9	X	-.006	-.006 0 %100
25	MP-10	X	-.006	-.006 0 %100



Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
 Job Number : TEP No. 25666.598873  
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft....]	End Location[ft....]
26	MP-11	X	-0.06	0	%100
27	MP-12	X	-0.06	0	%100
28	MP-13	X	-0.05	0	%100
29	MP-14	X	-0.05	0	%100
30	MP-15	X	-0.05	0	%100
31	SA1	X	-0.08	0	%100
32	SA2	X	-0.09	0	%100
33	SA3	X	0	0	%100
34	SR-1	X	-0.03	0	%100
35	SR-2	X	-0.06	0	%100
36	SR-3	X	-0.03	0	%100
37	SRB-1	X	-0.02	0	%100
38	SRB-2	X	-0.04	0	%100
39	SRB-3	X	-0.03	0	%100
40	CP-1	Z	.005	0	%100
41	CP-2	Z	.01	0	%100
42	CP-3	Z	.005	0	%100
43	FFTH-1	Z	.01	0	%100
44	FFTH-2	Z	.01	0	%100
45	FFTH-3	Z	.019	0	%100
46	GSC1	Z	.012	0	%100
47	GSC2	Z	0	0	%100
48	GSC3	Z	.014	0	%100
49	GSOP1	Z	.01	0	%100
50	GSOP2	Z	.009	0	%100
51	GSOP3	Z	.019	0	%100
52	K1	Z	.016	0	%100
53	K2	Z	.016	0	%100
54	K3	Z	.016	0	%100
55	MP-1	Z	.01	0	%100
56	MP-2	Z	.01	0	%100
57	MP-3	Z	.01	0	%100
58	MP-4	Z	.01	0	%100
59	MP-5	Z	.01	0	%100
60	MP-6	Z	.01	0	%100
61	MP-7	Z	.01	0	%100
62	MP-8	Z	.01	0	%100
63	MP-9	Z	.01	0	%100
64	MP-10	Z	.01	0	%100
65	MP-11	Z	.01	0	%100
66	MP-12	Z	.01	0	%100
67	MP-13	Z	.008	0	%100
68	MP-14	Z	.008	0	%100
69	MP-15	Z	.008	0	%100
70	SA1	Z	.015	0	%100
71	SA2	Z	.014	0	%100
72	SA3	Z	0	0	%100
73	SR-1	Z	.005	0	%100
74	SR-2	Z	.01	0	%100
75	SR-3	Z	.005	0	%100
76	SRB-1	Z	.005	0	%100
77	SRB-2	Z	.009	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
 Job Number : TEP No. 25666.598873  
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft....]	End Location[ft....]
78	SRB-3	Z	.005	0	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft....]	End Location[ft....]
1	CP-1	X	-0.02	0	%100
2	CP-2	X	-0.08	0	%100
3	CP-3	X	-0.06	0	%100
4	FFTH-1	X	-0.11	0	%100
5	FFTH-2	X	-0.04	0	%100
6	FFTH-3	X	-0.15	0	%100
7	GSC1	X	-0.12	0	%100
8	GSC2	X	-0.03	0	%100
9	GSC3	X	-0.07	0	%100
10	GSOP1	X	-0.11	0	%100
11	GSOP2	X	-0.03	0	%100
12	GSOP3	X	-0.12	0	%100
13	K1	X	-0.13	0	%100
14	K2	X	-0.13	0	%100
15	K3	X	-0.13	0	%100
16	MP-1	X	-0.08	0	%100
17	MP-2	X	-0.08	0	%100
18	MP-3	X	-0.08	0	%100
19	MP-4	X	-0.08	0	%100
20	MP-5	X	-0.08	0	%100
21	MP-6	X	-0.08	0	%100
22	MP-7	X	-0.08	0	%100
23	MP-8	X	-0.08	0	%100
24	MP-9	X	-0.08	0	%100
25	MP-10	X	-0.08	0	%100
26	MP-11	X	-0.08	0	%100
27	MP-12	X	-0.08	0	%100
28	MP-13	X	-0.07	0	%100
29	MP-14	X	-0.07	0	%100
30	MP-15	X	-0.07	0	%100
31	SA1	X	-0.09	0	%100
32	SA2	X	-0.13	0	%100
33	SA3	X	-0.04	0	%100
34	SR-1	X	-0.06	0	%100
35	SR-2	X	-0.08	0	%100
36	SR-3	X	-0.02	0	%100
37	SRB-1	X	-0.02	0	%100
38	SRB-2	X	-0.06	0	%100
39	SRB-3	X	-0.05	0	%100
40	CP-1	Z	.002	0	%100
41	CP-2	Z	.008	0	%100
42	CP-3	Z	.006	0	%100
43	FFTH-1	Z	.011	0	%100
44	FFTH-2	Z	.004	0	%100
45	FFTH-3	Z	.015	0	%100
46	GSC1	Z	.011	0	%100
47	GSC2	Z	.003	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
 Job Number : TEP No. 25666.598873  
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft....End Location[ft....
48	GSC3	Z	.009	.009 0 %100
49	GSOP1	Z	.011	.011 0 %100
50	GSOP2	Z	.004	.004 0 %100
51	GSOP3	Z	.015	.015 0 %100
52	K1	Z	.013	.013 0 %100
53	K2	Z	.013	.013 0 %100
54	K3	Z	.013	.013 0 %100
55	MP-1	Z	.008	.008 0 %100
56	MP-2	Z	.008	.008 0 %100
57	MP-3	Z	.008	.008 0 %100
58	MP-4	Z	.008	.008 0 %100
59	MP-5	Z	.008	.008 0 %100
60	MP-6	Z	.008	.008 0 %100
61	MP-7	Z	.008	.008 0 %100
62	MP-8	Z	.008	.008 0 %100
63	MP-9	Z	.008	.008 0 %100
64	MP-10	Z	.008	.008 0 %100
65	MP-11	Z	.008	.008 0 %100
66	MP-12	Z	.008	.008 0 %100
67	MP-13	Z	.007	.007 0 %100
68	MP-14	Z	.007	.007 0 %100
69	MP-15	Z	.007	.007 0 %100
70	SA1	Z	.01	.01 0 %100
71	SA2	Z	.012	.012 0 %100
72	SA3	Z	.003	.003 0 %100
73	SR-1	Z	.006	.006 0 %100
74	SR-2	Z	.008	.008 0 %100
75	SR-3	Z	.002	.002 0 %100
76	SRB-1	Z	.002	.002 0 %100
77	SRB-2	Z	.007	.007 0 %100
78	SRB-3	Z	.005	.005 0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft....End Location[ft....
1	CP-1	X	0	0 0 %100
2	CP-2	X	-.008	-.008 0 %100
3	CP-3	X	-.009	-.009 0 %100
4	FFTH-1	X	-.016	-.016 0 %100
5	FFTH-2	X	0	0 0 %100
6	FFTH-3	X	-.016	-.016 0 %100
7	GSC1	X	-.016	-.016 0 %100
8	GSC2	X	-.008	-.008 0 %100
9	GSC3	X	-.006	-.006 0 %100
10	GSOP1	X	-.016	-.016 0 %100
11	GSOP2	X	0	0 0 %100
12	GSOP3	X	-.014	-.014 0 %100
13	K1	X	-.016	-.016 0 %100
14	K2	X	-.016	-.016 0 %100
15	K3	X	-.016	-.016 0 %100
16	MP-1	X	-.01	-.01 0 %100
17	MP-2	X	-.01	-.01 0 %100



Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
 Job Number : TEP No. 25666.598873  
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft....End Location[ft....
18	MP-3	X	-.01	-.01 0 %100
19	MP-4	X	-.01	-.01 0 %100
20	MP-5	X	-.01	-.01 0 %100
21	MP-6	X	-.01	-.01 0 %100
22	MP-7	X	-.01	-.01 0 %100
23	MP-8	X	-.01	-.01 0 %100
24	MP-9	X	-.01	-.01 0 %100
25	MP-10	X	-.01	-.01 0 %100
26	MP-11	X	-.01	-.01 0 %100
27	MP-12	X	-.01	-.01 0 %100
28	MP-13	X	-.008	-.008 0 %100
29	MP-14	X	-.008	-.008 0 %100
30	MP-15	X	-.008	-.008 0 %100
31	SA1	X	-.008	-.008 0 %100
32	SA2	X	-.017	-.017 0 %100
33	SA3	X	-.009	-.009 0 %100
34	SR-1	X	-.009	-.009 0 %100
35	SR-2	X	-.009	-.009 0 %100
36	SR-3	X	0	0 0 %100
37	SRB-1	X	0	0 0 %100
38	SRB-2	X	-.006	-.006 0 %100
39	SRB-3	X	-.008	-.008 0 %100
40	CP-1	Z	0	0 0 %100
41	CP-2	Z	.005	.005 0 %100
42	CP-3	Z	.005	.005 0 %100
43	FFTH-1	Z	.01	.01 0 %100
44	FFTH-2	Z	0	0 0 %100
45	FFTH-3	Z	.01	.01 0 %100
46	GSC1	Z	.008	.008 0 %100
47	GSC2	Z	.004	.004 0 %100
48	GSC3	Z	.005	.005 0 %100
49	GSOP1	Z	.01	.01 0 %100
50	GSOP2	Z	0	0 0 %100
51	GSOP3	Z	.009	.009 0 %100
52	K1	Z	.009	.009 0 %100
53	K2	Z	.009	.009 0 %100
54	K3	Z	.009	.009 0 %100
55	MP-1	Z	.006	.006 0 %100
56	MP-2	Z	.006	.006 0 %100
57	MP-3	Z	.006	.006 0 %100
58	MP-4	Z	.006	.006 0 %100
59	MP-5	Z	.006	.006 0 %100
60	MP-6	Z	.006	.006 0 %100
61	MP-7	Z	.006	.006 0 %100
62	MP-8	Z	.006	.006 0 %100
63	MP-9	Z	.006	.006 0 %100
64	MP-10	Z	.006	.006 0 %100
65	MP-11	Z	.006	.006 0 %100
66	MP-12	Z	.006	.006 0 %100
67	MP-13	Z	.005	.005 0 %100
68	MP-14	Z	.005	.005 0 %100
69	MP-15	Z	.005	.005 0 %100



Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
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**Member Distributed Loads (BLC 17 : 330 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
70	SA1	Z	.005	.005	0 %100
71	SA2	Z	.009	.009	0 %100
72	SA3	Z	.005	.005	0 %100
73	SR-1	Z	.005	.005	0 %100
74	SR-2	Z	.005	.005	0 %100
75	SR-3	Z	0	0	0 %100
76	SRB-1	Z	0	0	0 %100
77	SRB-2	Z	.005	.005	0 %100
78	SRB-3	Z	.005	.005	0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	CP-1	Y	-.009	-.009	0 %100
2	CP-2	Y	-.009	-.009	0 %100
3	CP-3	Y	-.009	-.009	0 %100
4	FFTH-1	Y	-.009	-.009	0 %100
5	FFTH-2	Y	-.009	-.009	0 %100
6	FFTH-3	Y	-.009	-.009	0 %100
7	GSC1	Y	-.013	-.013	0 %100
8	GSC2	Y	-.013	-.013	0 %100
9	GSC3	Y	-.013	-.013	0 %100
10	GSOP1	Y	-.009	-.009	0 %100
11	GSOP2	Y	-.009	-.009	0 %100
12	GSOP3	Y	-.009	-.009	0 %100
13	K1	Y	-.011	-.011	0 %100
14	K2	Y	-.011	-.011	0 %100
15	K3	Y	-.011	-.011	0 %100
16	MP-1	Y	-.011	-.011	0 %100
17	MP-2	Y	-.011	-.011	0 %100
18	MP-3	Y	-.011	-.011	0 %100
19	MP-4	Y	-.01	-.01	0 %100
20	MP-5	Y	-.011	-.011	0 %100
21	MP-6	Y	-.011	-.011	0 %100
22	MP-7	Y	-.011	-.011	0 %100
23	MP-8	Y	-.01	-.01	0 %100
24	MP-9	Y	-.011	-.011	0 %100
25	MP-10	Y	-.011	-.011	0 %100
26	MP-11	Y	-.011	-.011	0 %100
27	MP-12	Y	-.01	-.01	0 %100
28	MP-13	Y	-.01	-.01	0 %100
29	MP-14	Y	-.01	-.01	0 %100
30	MP-15	Y	-.01	-.01	0 %100
31	SA1	Y	-.013	-.013	0 %100
32	SA2	Y	-.013	-.013	0 %100
33	SA3	Y	-.015	-.015	0 %100
34	SR-1	Y	-.01	-.01	0 %100
35	SR-2	Y	-.01	-.01	0 %100
36	SR-3	Y	-.01	-.01	0 %100
37	SRB-1	Y	-.01	-.01	0 %100
38	SRB-2	Y	-.01	-.01	0 %100
39	SRB-3	Y	-.01	-.01	0 %100



Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
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**Member Distributed Loads (BLC 19 : 0 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	CP-1	X	-.006	-.006	0 %100
2	CP-2	X	-.006	-.006	0 %100
3	CP-3	X	-.006	-.006	0 %100
4	FFTH-1	X	-.009	-.009	0 %100
5	FFTH-2	X	-.007	-.007	0 %100
6	FFTH-3	X	-.007	-.007	0 %100
7	GSC1	X	-.006	-.006	0 %100
8	GSC2	X	-.006	-.006	0 %100
9	GSC3	X	-.006	-.006	0 %100
10	GSOP1	X	-.007	-.007	0 %100
11	GSOP2	X	-.006	-.006	0 %100
12	GSOP3	X	-.006	-.006	0 %100
13	K1	X	-.006	-.006	0 %100
14	K2	X	-.006	-.006	0 %100
15	K3	X	-.006	-.006	0 %100
16	MP-1	X	-.004	-.004	0 %100
17	MP-2	X	-.004	-.004	0 %100
18	MP-3	X	-.004	-.004	0 %100
19	MP-4	X	-.004	-.004	0 %100
20	MP-5	X	-.004	-.004	0 %100
21	MP-6	X	-.004	-.004	0 %100
22	MP-7	X	-.004	-.004	0 %100
23	MP-8	X	-.004	-.004	0 %100
24	MP-9	X	-.004	-.004	0 %100
25	MP-10	X	-.004	-.004	0 %100
26	MP-11	X	-.004	-.004	0 %100
27	MP-12	X	-.004	-.004	0 %100
28	MP-13	X	-.003	-.003	0 %100
29	MP-14	X	-.003	-.003	0 %100
30	MP-15	X	-.003	-.003	0 %100
31	SA1	X	-.007	-.007	0 %100
32	SA2	X	-.007	-.007	0 %100
33	SA3	X	-.007	-.007	0 %100
34	SR-1	X	-.005	-.005	0 %100
35	SR-2	X	-.004	-.004	0 %100
36	SR-3	X	-.004	-.004	0 %100
37	SRB-1	X	-.003	-.003	0 %100
38	SRB-2	X	-.003	-.003	0 %100
39	SRB-3	X	-.004	-.004	0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	CP-1	X	-.004	-.004	0 %100
2	CP-2	X	0	0	0 %100
3	CP-3	X	-.005	-.005	0 %100
4	FFTH-1	X	-.007	-.007	0 %100
5	FFTH-2	X	-.005	-.005	0 %100
6	FFTH-3	X	0	0	0 %100
7	GSC1	X	-.003	-.003	0 %100
8	GSC2	X	-.006	-.006	0 %100
9	GSC3	X	-.002	-.002	0 %100



Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
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**Member Distributed Loads (BLC 20 : 30 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft]...	End Location[ft]...
10	GSOP1	X	-0.05	0	%100
11	GSOP2	X	-0.05	0	%100
12	GSOP3	X	0	0	%100
13	K1	X	-0.05	0	%100
14	K2	X	-0.05	0	%100
15	K3	X	-0.05	0	%100
16	MP-1	X	-0.03	0	%100
17	MP-2	X	-0.03	0	%100
18	MP-3	X	-0.03	0	%100
19	MP-4	X	-0.04	0	%100
20	MP-5	X	-0.03	0	%100
21	MP-6	X	-0.03	0	%100
22	MP-7	X	-0.03	0	%100
23	MP-8	X	-0.04	0	%100
24	MP-9	X	-0.03	0	%100
25	MP-10	X	-0.03	0	%100
26	MP-11	X	-0.03	0	%100
27	MP-12	X	-0.04	0	%100
28	MP-13	X	-0.03	0	%100
29	MP-14	X	-0.03	0	%100
30	MP-15	X	-0.03	0	%100
31	SA1	X	-0.03	0	%100
32	SA2	X	-0.03	0	%100
33	SA3	X	-0.06	0	%100
34	SR-1	X	-0.04	0	%100
35	SR-2	X	0	0	%100
36	SR-3	X	-0.03	0	%100
37	SRB-1	X	-0.02	0	%100
38	SRB-2	X	0	0	%100
39	SRB-3	X	-0.03	0	%100
40	CP-1	Z	-0.03	0	%100
41	CP-2	Z	0	0	%100
42	CP-3	Z	-0.02	0	%100
43	FFTH-1	Z	-0.03	0	%100
44	FFTH-2	Z	-0.04	0	%100
45	FFTH-3	Z	0	0	%100
46	GSC1	Z	-0.01	0	%100
47	GSC2	Z	-0.03	0	%100
48	GSC3	Z	-0.02	0	%100
49	GSOP1	Z	-0.03	0	%100
50	GSOP2	Z	-0.03	0	%100
51	GSOP3	Z	0	0	%100
52	K1	Z	-0.04	0	%100
53	K2	Z	-0.04	0	%100
54	K3	Z	-0.04	0	%100
55	MP-1	Z	-0.02	0	%100
56	MP-2	Z	-0.02	0	%100
57	MP-3	Z	-0.02	0	%100
58	MP-4	Z	-0.02	0	%100
59	MP-5	Z	-0.02	0	%100
60	MP-6	Z	-0.02	0	%100
61	MP-7	Z	-0.02	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
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 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft]...	End Location[ft]...
62	MP-8	Z	-0.02	0	%100
63	MP-9	Z	-0.02	0	%100
64	MP-10	Z	-0.02	0	%100
65	MP-11	Z	-0.02	0	%100
66	MP-12	Z	-0.02	0	%100
67	MP-13	Z	-0.02	0	%100
68	MP-14	Z	-0.02	0	%100
69	MP-15	Z	-0.02	0	%100
70	SA1	Z	-0.02	0	%100
71	SA2	Z	-0.02	0	%100
72	SA3	Z	-0.03	0	%100
73	SR-1	Z	-0.02	0	%100
74	SR-2	Z	0	0	%100
75	SR-3	Z	-0.02	0	%100
76	SRB-1	Z	-0.02	0	%100
77	SRB-2	Z	0	0	%100
78	SRB-3	Z	-0.01	0	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft]...	End Location[ft]...
1	CP-1	X	-0.04	0	%100
2	CP-2	X	-0.01	0	%100
3	CP-3	X	-0.03	0	%100
4	FFTH-1	X	-0.04	0	%100
5	FFTH-2	X	-0.05	0	%100
6	FFTH-3	X	-0.01	0	%100
7	GSC1	X	-0.01	0	%100
8	GSC2	X	-0.04	0	%100
9	GSC3	X	-0.03	0	%100
10	GSOP1	X	-0.04	0	%100
11	GSOP2	X	-0.04	0	%100
12	GSOP3	X	-0.01	0	%100
13	K1	X	-0.04	0	%100
14	K2	X	-0.04	0	%100
15	K3	X	-0.04	0	%100
16	MP-1	X	-0.03	0	%100
17	MP-2	X	-0.03	0	%100
18	MP-3	X	-0.03	0	%100
19	MP-4	X	-0.03	0	%100
20	MP-5	X	-0.03	0	%100
21	MP-6	X	-0.03	0	%100
22	MP-7	X	-0.03	0	%100
23	MP-8	X	-0.03	0	%100
24	MP-9	X	-0.03	0	%100
25	MP-10	X	-0.03	0	%100
26	MP-11	X	-0.03	0	%100
27	MP-12	X	-0.03	0	%100
28	MP-13	X	-0.02	0	%100
29	MP-14	X	-0.02	0	%100
30	MP-15	X	-0.02	0	%100
31	SA1	X	-0.03	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
 Job Number : TEP No. 25666.598873  
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft]...	End Location[ft]...
32	SA2	X	-0.01	0	%100
33	SA3	X	-0.005	0	%100
34	SR-1	X	-0.003	0	%100
35	SR-2	X	-0.000758	0	%100
36	SR-3	X	-0.003	0	%100
37	SRB-1	X	-0.002	0	%100
38	SRB-2	X	-0.000593	0	%100
39	SRB-3	X	-0.002	0	%100
40	CP-1	Z	-0.004	0	%100
41	CP-2	Z	-0.001	0	%100
42	CP-3	Z	-0.003	0	%100
43	FFTH-1	Z	-0.004	0	%100
44	FFTH-2	Z	-0.006	0	%100
45	FFTH-3	Z	-0.002	0	%100
46	GSC1	Z	-0.001	0	%100
47	GSC2	Z	-0.004	0	%100
48	GSC3	Z	-0.003	0	%100
49	GSOP1	Z	-0.003	0	%100
50	GSOP2	Z	-0.005	0	%100
51	GSOP3	Z	-0.001	0	%100
52	K1	Z	-0.005	0	%100
53	K2	Z	-0.005	0	%100
54	K3	Z	-0.005	0	%100
55	MP-1	Z	-0.003	0	%100
56	MP-2	Z	-0.003	0	%100
57	MP-3	Z	-0.003	0	%100
58	MP-4	Z	-0.003	0	%100
59	MP-5	Z	-0.003	0	%100
60	MP-6	Z	-0.003	0	%100
61	MP-7	Z	-0.003	0	%100
62	MP-8	Z	-0.003	0	%100
63	MP-9	Z	-0.003	0	%100
64	MP-10	Z	-0.003	0	%100
65	MP-11	Z	-0.003	0	%100
66	MP-12	Z	-0.003	0	%100
67	MP-13	Z	-0.002	0	%100
68	MP-14	Z	-0.002	0	%100
69	MP-15	Z	-0.002	0	%100
70	SA1	Z	-0.004	0	%100
71	SA2	Z	-0.001	0	%100
72	SA3	Z	-0.005	0	%100
73	SR-1	Z	-0.002	0	%100
74	SR-2	Z	-0.000932	0	%100
75	SR-3	Z	-0.003	0	%100
76	SRB-1	Z	-0.002	0	%100
77	SRB-2	Z	-0.000665	0	%100
78	SRB-3	Z	-0.002	0	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft]...	End Location[ft]...
1	CP-1	X	-0.003	0	%100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft]...	End Location[ft]...
2	CP-2	X	-0.001	0	%100
3	CP-3	X	-0.002	0	%100
4	FFTH-1	X	-0.002	0	%100
5	FFTH-2	X	-0.004	0	%100
6	FFTH-3	X	-0.002	0	%100
7	GSC1	X	0	0	%100
8	GSC2	X	-0.003	0	%100
9	GSC3	X	-0.002	0	%100
10	GSOP1	X	-0.002	0	%100
11	GSOP2	X	-0.003	0	%100
12	GSOP3	X	-0.002	0	%100
13	K1	X	-0.003	0	%100
14	K2	X	-0.003	0	%100
15	K3	X	-0.003	0	%100
16	MP-1	X	-0.002	0	%100
17	MP-2	X	-0.002	0	%100
18	MP-3	X	-0.002	0	%100
19	MP-4	X	-0.002	0	%100
20	MP-5	X	-0.002	0	%100
21	MP-6	X	-0.002	0	%100
22	MP-7	X	-0.002	0	%100
23	MP-8	X	-0.002	0	%100
24	MP-9	X	-0.002	0	%100
25	MP-10	X	-0.002	0	%100
26	MP-11	X	-0.002	0	%100
27	MP-12	X	-0.002	0	%100
28	MP-13	X	-0.002	0	%100
29	MP-14	X	-0.002	0	%100
30	MP-15	X	-0.002	0	%100
31	SA1	X	-0.003	0	%100
32	SA2	X	0	0	%100
33	SA3	X	-0.003	0	%100
34	SR-1	X	-0.001	0	%100
35	SR-2	X	-0.001	0	%100
36	SR-3	X	-0.002	0	%100
37	SRB-1	X	-0.002	0	%100
38	SRB-2	X	-0.00081	0	%100
39	SRB-3	X	-0.000945	0	%100
40	CP-1	Z	-0.005	0	%100
41	CP-2	Z	-0.003	0	%100
42	CP-3	Z	-0.002	0	%100
43	FFTH-1	Z	-0.003	0	%100
44	FFTH-2	Z	-0.007	0	%100
45	FFTH-3	Z	-0.004	0	%100
46	GSC1	Z	0	0	%100
47	GSC2	Z	-0.004	0	%100
48	GSC3	Z	-0.005	0	%100
49	GSOP1	Z	-0.003	0	%100
50	GSOP2	Z	-0.006	0	%100
51	GSOP3	Z	-0.003	0	%100
52	K1	Z	-0.006	0	%100
53	K2	Z	-0.006	0	%100





Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
 Job Number : TEP No. 25666.598873  
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft....End Location[ft....	
54	K3	Z	-0.06	0	%100
55	MP-1	Z	-0.04	0	%100
56	MP-2	Z	-0.04	0	%100
57	MP-3	Z	-0.04	0	%100
58	MP-4	Z	-0.04	0	%100
59	MP-5	Z	-0.04	0	%100
60	MP-6	Z	-0.04	0	%100
61	MP-7	Z	-0.04	0	%100
62	MP-8	Z	-0.04	0	%100
63	MP-9	Z	-0.04	0	%100
64	MP-10	Z	-0.04	0	%100
65	MP-11	Z	-0.04	0	%100
66	MP-12	Z	-0.04	0	%100
67	MP-13	Z	-0.03	0	%100
68	MP-14	Z	-0.03	0	%100
69	MP-15	Z	-0.03	0	%100
70	SA1	Z	-0.05	0	%100
71	SA2	Z	0	0	%100
72	SA3	Z	-0.05	0	%100
73	SR-1	Z	-0.02	0	%100
74	SR-2	Z	-0.02	0	%100
75	SR-3	Z	-0.04	0	%100
76	SRB-1	Z	-0.03	0	%100
77	SRB-2	Z	-0.02	0	%100
78	SRB-3	Z	-0.01	0	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft....End Location[ft....	
1	CP-1	Z	-0.05	0	%100
2	CP-2	Z	-0.05	0	%100
3	CP-3	Z	0	0	%100
4	FFTH-1	Z	0	0	%100
5	FFTH-2	Z	-0.07	0	%100
6	FFTH-3	Z	-0.07	0	%100
7	GSC1	Z	-0.03	0	%100
8	GSC2	Z	-0.03	0	%100
9	GSC3	Z	-0.07	0	%100
10	GSOP1	Z	0	0	%100
11	GSOP2	Z	-0.06	0	%100
12	GSOP3	Z	-0.06	0	%100
13	K1	Z	-0.07	0	%100
14	K2	Z	-0.07	0	%100
15	K3	Z	-0.07	0	%100
16	MP-1	Z	-0.04	0	%100
17	MP-2	Z	-0.04	0	%100
18	MP-3	Z	-0.04	0	%100
19	MP-4	Z	-0.05	0	%100
20	MP-5	Z	-0.04	0	%100
21	MP-6	Z	-0.04	0	%100
22	MP-7	Z	-0.04	0	%100
23	MP-8	Z	-0.05	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
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**Member Distributed Loads (BLC 23 : 90 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft....End Location[ft....	
24	MP-9	Z	-0.04	0	%100
25	MP-10	Z	-0.04	0	%100
26	MP-11	Z	-0.04	0	%100
27	MP-12	Z	-0.05	0	%100
28	MP-13	Z	-0.04	0	%100
29	MP-14	Z	-0.04	0	%100
30	MP-15	Z	-0.04	0	%100
31	SA1	Z	-0.07	0	%100
32	SA2	Z	-0.03	0	%100
33	SA3	Z	-0.03	0	%100
34	SR-1	Z	0	0	%100
35	SR-2	Z	-0.04	0	%100
36	SR-3	Z	-0.04	0	%100
37	SRB-1	Z	-0.03	0	%100
38	SRB-2	Z	-0.03	0	%100
39	SRB-3	Z	0	0	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft....End Location[ft....	
1	CP-1	X	.001	0	%100
2	CP-2	X	.003	0	%100
3	CP-3	X	.002	0	%100
4	FFTH-1	X	.002	0	%100
5	FFTH-2	X	.002	0	%100
6	FFTH-3	X	.004	0	%100
7	GSC1	X	.003	0	%100
8	GSC2	X	0	0	%100
9	GSC3	X	.002	0	%100
10	GSOP1	X	.002	0	%100
11	GSOP2	X	.002	0	%100
12	GSOP3	X	.003	0	%100
13	K1	X	.003	0	%100
14	K2	X	.003	0	%100
15	K3	X	.003	0	%100
16	MP-1	X	.002	0	%100
17	MP-2	X	.002	0	%100
18	MP-3	X	.002	0	%100
19	MP-4	X	.002	0	%100
20	MP-5	X	.002	0	%100
21	MP-6	X	.002	0	%100
22	MP-7	X	.002	0	%100
23	MP-8	X	.002	0	%100
24	MP-9	X	.002	0	%100
25	MP-10	X	.002	0	%100
26	MP-11	X	.002	0	%100
27	MP-12	X	.002	0	%100
28	MP-13	X	.002	0	%100
29	MP-14	X	.002	0	%100
30	MP-15	X	.002	0	%100
31	SA1	X	.003	0	%100
32	SA2	X	.003	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
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**Member Distributed Loads (BLC 24 : 120 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...	
33	SA3	X	0	0	%100
34	SR-1	X	.001	.001	%100
35	SR-2	X	.002	.002	%100
36	SR-3	X	.001	.001	%100
37	SRB-1	X	.00081	.00081	%100
38	SRB-2	X	.002	.002	%100
39	SRB-3	X	.000945	.000945	%100
40	CP-1	Z	-.003	-.003	%100
41	CP-2	Z	-.005	-.005	%100
42	CP-3	Z	-.002	-.002	%100
43	FFTH-1	Z	-.003	-.003	%100
44	FFTH-2	Z	-.004	-.004	%100
45	FFTH-3	Z	-.007	-.007	%100
46	GSC1	Z	-.004	-.004	%100
47	GSC2	Z	0	0	%100
48	GSC3	Z	-.005	-.005	%100
49	GSOP1	Z	-.003	-.003	%100
50	GSOP2	Z	-.003	-.003	%100
51	GSOP3	Z	-.006	-.006	%100
52	K1	Z	-.006	-.006	%100
53	K2	Z	-.006	-.006	%100
54	K3	Z	-.006	-.006	%100
55	MP-1	Z	-.004	-.004	%100
56	MP-2	Z	-.004	-.004	%100
57	MP-3	Z	-.004	-.004	%100
58	MP-4	Z	-.004	-.004	%100
59	MP-5	Z	-.004	-.004	%100
60	MP-6	Z	-.004	-.004	%100
61	MP-7	Z	-.004	-.004	%100
62	MP-8	Z	-.004	-.004	%100
63	MP-9	Z	-.004	-.004	%100
64	MP-10	Z	-.004	-.004	%100
65	MP-11	Z	-.004	-.004	%100
66	MP-12	Z	-.004	-.004	%100
67	MP-13	Z	-.003	-.003	%100
68	MP-14	Z	-.003	-.003	%100
69	MP-15	Z	-.003	-.003	%100
70	SA1	Z	-.005	-.005	%100
71	SA2	Z	-.005	-.005	%100
72	SA3	Z	0	0	%100
73	SR-1	Z	-.002	-.002	%100
74	SR-2	Z	-.004	-.004	%100
75	SR-3	Z	-.002	-.002	%100
76	SRB-1	Z	-.002	-.002	%100
77	SRB-2	Z	-.003	-.003	%100
78	SRB-3	Z	-.001	-.001	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...	
1	CP-1	X	.001	.001	%100
2	CP-2	X	.004	.004	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
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**Member Distributed Loads (BLC 25 : 135 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...	
3	CP-3	X	.003	.003	%100
4	FFTH-1	X	.004	.004	%100
5	FFTH-2	X	.001	.001	%100
6	FFTH-3	X	.005	.005	%100
7	GSC1	X	.004	.004	%100
8	GSC2	X	.001	.001	%100
9	GSC3	X	.003	.003	%100
10	GSOP1	X	.004	.004	%100
11	GSOP2	X	.001	.001	%100
12	GSOP3	X	.004	.004	%100
13	K1	X	.004	.004	%100
14	K2	X	.004	.004	%100
15	K3	X	.004	.004	%100
16	MP-1	X	.003	.003	%100
17	MP-2	X	.003	.003	%100
18	MP-3	X	.003	.003	%100
19	MP-4	X	.003	.003	%100
20	MP-5	X	.003	.003	%100
21	MP-6	X	.003	.003	%100
22	MP-7	X	.003	.003	%100
23	MP-8	X	.003	.003	%100
24	MP-9	X	.003	.003	%100
25	MP-10	X	.003	.003	%100
26	MP-11	X	.003	.003	%100
27	MP-12	X	.003	.003	%100
28	MP-13	X	.002	.002	%100
29	MP-14	X	.002	.002	%100
30	MP-15	X	.002	.002	%100
31	SA1	X	.003	.003	%100
32	SA2	X	.005	.005	%100
33	SA3	X	.001	.001	%100
34	SR-1	X	.003	.003	%100
35	SR-2	X	.003	.003	%100
36	SR-3	X	.000758	.000758	%100
37	SRB-1	X	.000593	.000593	%100
38	SRB-2	X	.002	.002	%100
39	SRB-3	X	.002	.002	%100
40	CP-1	Z	-.001	-.001	%100
41	CP-2	Z	-.004	-.004	%100
42	CP-3	Z	-.003	-.003	%100
43	FFTH-1	Z	-.004	-.004	%100
44	FFTH-2	Z	-.002	-.002	%100
45	FFTH-3	Z	-.006	-.006	%100
46	GSC1	Z	-.004	-.004	%100
47	GSC2	Z	-.001	-.001	%100
48	GSC3	Z	-.003	-.003	%100
49	GSOP1	Z	-.003	-.003	%100
50	GSOP2	Z	-.001	-.001	%100
51	GSOP3	Z	-.005	-.005	%100
52	K1	Z	-.005	-.005	%100
53	K2	Z	-.005	-.005	%100
54	K3	Z	-.005	-.005	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
 Job Number : TEP No. 25666.598873  
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...	
55	MP-1	Z	-0.003	0	%100
56	MP-2	Z	-0.003	0	%100
57	MP-3	Z	-0.003	0	%100
58	MP-4	Z	-0.003	0	%100
59	MP-5	Z	-0.003	0	%100
60	MP-6	Z	-0.003	0	%100
61	MP-7	Z	-0.003	0	%100
62	MP-8	Z	-0.003	0	%100
63	MP-9	Z	-0.003	0	%100
64	MP-10	Z	-0.003	0	%100
65	MP-11	Z	-0.003	0	%100
66	MP-12	Z	-0.003	0	%100
67	MP-13	Z	-0.002	0	%100
68	MP-14	Z	-0.002	0	%100
69	MP-15	Z	-0.002	0	%100
70	SA1	Z	-0.004	0	%100
71	SA2	Z	-0.005	0	%100
72	SA3	Z	-0.001	0	%100
73	SR-1	Z	-0.002	0	%100
74	SR-2	Z	-0.003	0	%100
75	SR-3	Z	-0.00932	0	%100
76	SRB-1	Z	-0.00665	0	%100
77	SRB-2	Z	-0.002	0	%100
78	SRB-3	Z	-0.002	0	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...		
1	CP-1	X	0	0	%100	
2	CP-2	X	.004	.004	0	%100
3	CP-3	X	.005	.005	0	%100
4	FFTH-1	X	.007	.007	0	%100
5	FFTH-2	X	0	0	0	%100
6	FFTH-3	X	.005	.005	0	%100
7	GSC1	X	.006	.006	0	%100
8	GSC2	X	.003	.003	0	%100
9	GSC3	X	.002	.002	0	%100
10	GSOP1	X	.005	.005	0	%100
11	GSOP2	X	0	0	0	%100
12	GSOP3	X	.005	.005	0	%100
13	K1	X	.005	.005	0	%100
14	K2	X	.005	.005	0	%100
15	K3	X	.005	.005	0	%100
16	MP-1	X	.003	.003	0	%100
17	MP-2	X	.003	.003	0	%100
18	MP-3	X	.003	.003	0	%100
19	MP-4	X	.004	.004	0	%100
20	MP-5	X	.003	.003	0	%100
21	MP-6	X	.003	.003	0	%100
22	MP-7	X	.003	.003	0	%100
23	MP-8	X	.004	.004	0	%100
24	MP-9	X	.003	.003	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
 Job Number : TEP No. 25666.598873  
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...		
25	MP-10	X	.003	.003	0	%100
26	MP-11	X	.003	.003	0	%100
27	MP-12	X	.004	.004	0	%100
28	MP-13	X	.003	.003	0	%100
29	MP-14	X	.003	.003	0	%100
30	MP-15	X	.003	.003	0	%100
31	SA1	X	.003	.003	0	%100
32	SA2	X	.006	.006	0	%100
33	SA3	X	.003	.003	0	%100
34	SR-1	X	.004	.004	0	%100
35	SR-2	X	.003	.003	0	%100
36	SR-3	X	0	0	0	%100
37	SRB-1	X	0	0	0	%100
38	SRB-2	X	.002	.002	0	%100
39	SRB-3	X	.003	.003	0	%100
40	CP-1	Z	0	0	0	%100
41	CP-2	Z	-0.003	-0.003	0	%100
42	CP-3	Z	-0.002	-0.002	0	%100
43	FFTH-1	Z	-0.003	-0.003	0	%100
44	FFTH-2	Z	0	0	0	%100
45	FFTH-3	Z	-0.004	-0.004	0	%100
46	GSC1	Z	-0.003	-0.003	0	%100
47	GSC2	Z	-0.001	-0.001	0	%100
48	GSC3	Z	-0.002	-0.002	0	%100
49	GSOP1	Z	-0.003	-0.003	0	%100
50	GSOP2	Z	0	0	0	%100
51	GSOP3	Z	-0.003	-0.003	0	%100
52	K1	Z	-0.004	-0.004	0	%100
53	K2	Z	-0.004	-0.004	0	%100
54	K3	Z	-0.004	-0.004	0	%100
55	MP-1	Z	-0.002	-0.002	0	%100
56	MP-2	Z	-0.002	-0.002	0	%100
57	MP-3	Z	-0.002	-0.002	0	%100
58	MP-4	Z	-0.002	-0.002	0	%100
59	MP-5	Z	-0.002	-0.002	0	%100
60	MP-6	Z	-0.002	-0.002	0	%100
61	MP-7	Z	-0.002	-0.002	0	%100
62	MP-8	Z	-0.002	-0.002	0	%100
63	MP-9	Z	-0.002	-0.002	0	%100
64	MP-10	Z	-0.002	-0.002	0	%100
65	MP-11	Z	-0.002	-0.002	0	%100
66	MP-12	Z	-0.002	-0.002	0	%100
67	MP-13	Z	-0.002	-0.002	0	%100
68	MP-14	Z	-0.002	-0.002	0	%100
69	MP-15	Z	-0.002	-0.002	0	%100
70	SA1	Z	-0.002	-0.002	0	%100
71	SA2	Z	-0.003	-0.003	0	%100
72	SA3	Z	-0.002	-0.002	0	%100
73	SR-1	Z	-0.002	-0.002	0	%100
74	SR-2	Z	-0.002	-0.002	0	%100
75	SR-3	Z	0	0	0	%100
76	SRB-1	Z	0	0	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
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**Member Distributed Loads (BLC 26 : 150 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...	
77	SRB-2	Z	-.002	0	%100
78	SRB-3	Z	-.001	0	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...	
1	CP-1	X	.006	0	%100
2	CP-2	X	.006	0	%100
3	CP-3	X	.006	0	%100
4	FFTH-1	X	.009	0	%100
5	FFTH-2	X	.007	0	%100
6	FFTH-3	X	.007	0	%100
7	GSC1	X	.006	0	%100
8	GSC2	X	.006	0	%100
9	GSC3	X	.006	0	%100
10	GSOP1	X	.007	0	%100
11	GSOP2	X	.006	0	%100
12	GSOP3	X	.006	0	%100
13	K1	X	.006	0	%100
14	K2	X	.006	0	%100
15	K3	X	.006	0	%100
16	MP-1	X	.004	0	%100
17	MP-2	X	.004	0	%100
18	MP-3	X	.004	0	%100
19	MP-4	X	.004	0	%100
20	MP-5	X	.004	0	%100
21	MP-6	X	.004	0	%100
22	MP-7	X	.004	0	%100
23	MP-8	X	.004	0	%100
24	MP-9	X	.004	0	%100
25	MP-10	X	.004	0	%100
26	MP-11	X	.004	0	%100
27	MP-12	X	.004	0	%100
28	MP-13	X	.003	0	%100
29	MP-14	X	.003	0	%100
30	MP-15	X	.003	0	%100
31	SA1	X	.007	0	%100
32	SA2	X	.007	0	%100
33	SA3	X	.007	0	%100
34	SR-1	X	.005	0	%100
35	SR-2	X	.004	0	%100
36	SR-3	X	.004	0	%100
37	SRB-1	X	.003	0	%100
38	SRB-2	X	.003	0	%100
39	SRB-3	X	.004	0	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...	
1	CP-1	X	.004	0	%100
2	CP-2	X	0	0	%100
3	CP-3	X	.005	0	%100
4	FFTH-1	X	.007	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
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 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...	
5	FFTH-2	X	.005	0	%100
6	FFTH-3	X	0	0	%100
7	GSC1	X	.003	0	%100
8	GSC2	X	.006	0	%100
9	GSC3	X	.002	0	%100
10	GSOP1	X	.005	0	%100
11	GSOP2	X	.005	0	%100
12	GSOP3	X	0	0	%100
13	K1	X	.005	0	%100
14	K2	X	.005	0	%100
15	K3	X	.005	0	%100
16	MP-1	X	.003	0	%100
17	MP-2	X	.003	0	%100
18	MP-3	X	.003	0	%100
19	MP-4	X	.004	0	%100
20	MP-5	X	.003	0	%100
21	MP-6	X	.003	0	%100
22	MP-7	X	.003	0	%100
23	MP-8	X	.004	0	%100
24	MP-9	X	.003	0	%100
25	MP-10	X	.003	0	%100
26	MP-11	X	.003	0	%100
27	MP-12	X	.004	0	%100
28	MP-13	X	.003	0	%100
29	MP-14	X	.003	0	%100
30	MP-15	X	.003	0	%100
31	SA1	X	.003	0	%100
32	SA2	X	.003	0	%100
33	SA3	X	.006	0	%100
34	SR-1	X	.004	0	%100
35	SR-2	X	0	0	%100
36	SR-3	X	.003	0	%100
37	SRB-1	X	.002	0	%100
38	SRB-2	X	0	0	%100
39	SRB-3	X	.003	0	%100
40	CP-1	Z	.003	0	%100
41	CP-2	Z	0	0	%100
42	CP-3	Z	.002	0	%100
43	FFTH-1	Z	.003	0	%100
44	FFTH-2	Z	.004	0	%100
45	FFTH-3	Z	0	0	%100
46	GSC1	Z	.001	0	%100
47	GSC2	Z	.003	0	%100
48	GSC3	Z	.002	0	%100
49	GSOP1	Z	.003	0	%100
50	GSOP2	Z	.003	0	%100
51	GSOP3	Z	0	0	%100
52	K1	Z	.004	0	%100
53	K2	Z	.004	0	%100
54	K3	Z	.004	0	%100
55	MP-1	Z	.002	0	%100
56	MP-2	Z	.002	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
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**Member Distributed Loads (BLC 28 : 210 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
57	MP-3	Z	.002	.002 0 %100
58	MP-4	Z	.002	.002 0 %100
59	MP-5	Z	.002	.002 0 %100
60	MP-6	Z	.002	.002 0 %100
61	MP-7	Z	.002	.002 0 %100
62	MP-8	Z	.002	.002 0 %100
63	MP-9	Z	.002	.002 0 %100
64	MP-10	Z	.002	.002 0 %100
65	MP-11	Z	.002	.002 0 %100
66	MP-12	Z	.002	.002 0 %100
67	MP-13	Z	.002	.002 0 %100
68	MP-14	Z	.002	.002 0 %100
69	MP-15	Z	.002	.002 0 %100
70	SA1	Z	.002	.002 0 %100
71	SA2	Z	.002	.002 0 %100
72	SA3	Z	.003	.003 0 %100
73	SR-1	Z	.002	.002 0 %100
74	SR-2	Z	0	0 0 %100
75	SR-3	Z	.002	.002 0 %100
76	SRB-1	Z	.002	.002 0 %100
77	SRB-2	Z	0	0 0 %100
78	SRB-3	Z	.001	.001 0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	CP-1	X	.004	.004 0 %100
2	CP-2	X	.001	.001 0 %100
3	CP-3	X	.003	.003 0 %100
4	FFTH-1	X	.004	.004 0 %100
5	FFTH-2	X	.005	.005 0 %100
6	FFTH-3	X	.001	.001 0 %100
7	GSC1	X	.001	.001 0 %100
8	GSC2	X	.004	.004 0 %100
9	GSC3	X	.003	.003 0 %100
10	GSOP1	X	.004	.004 0 %100
11	GSOP2	X	.004	.004 0 %100
12	GSOP3	X	.001	.001 0 %100
13	K1	X	.004	.004 0 %100
14	K2	X	.004	.004 0 %100
15	K3	X	.004	.004 0 %100
16	MP-1	X	.003	.003 0 %100
17	MP-2	X	.003	.003 0 %100
18	MP-3	X	.003	.003 0 %100
19	MP-4	X	.003	.003 0 %100
20	MP-5	X	.003	.003 0 %100
21	MP-6	X	.003	.003 0 %100
22	MP-7	X	.003	.003 0 %100
23	MP-8	X	.003	.003 0 %100
24	MP-9	X	.003	.003 0 %100
25	MP-10	X	.003	.003 0 %100
26	MP-11	X	.003	.003 0 %100



Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
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**Member Distributed Loads (BLC 29 : 225 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
27	MP-12	X	.003	.003 0 %100
28	MP-13	X	.002	.002 0 %100
29	MP-14	X	.002	.002 0 %100
30	MP-15	X	.002	.002 0 %100
31	SA1	X	.003	.003 0 %100
32	SA2	X	.001	.001 0 %100
33	SA3	X	.005	.005 0 %100
34	SR-1	X	.003	.003 0 %100
35	SR-2	X	.000758	.000758 0 %100
36	SR-3	X	.003	.003 0 %100
37	SRB-1	X	.002	.002 0 %100
38	SRB-2	X	.000593	.000593 0 %100
39	SRB-3	X	.002	.002 0 %100
40	CP-1	Z	.004	.004 0 %100
41	CP-2	Z	.001	.001 0 %100
42	CP-3	Z	.003	.003 0 %100
43	FFTH-1	Z	.004	.004 0 %100
44	FFTH-2	Z	.006	.006 0 %100
45	FFTH-3	Z	.002	.002 0 %100
46	GSC1	Z	.001	.001 0 %100
47	GSC2	Z	.004	.004 0 %100
48	GSC3	Z	.003	.003 0 %100
49	GSOP1	Z	.003	.003 0 %100
50	GSOP2	Z	.005	.005 0 %100
51	GSOP3	Z	.001	.001 0 %100
52	K1	Z	.005	.005 0 %100
53	K2	Z	.005	.005 0 %100
54	K3	Z	.005	.005 0 %100
55	MP-1	Z	.003	.003 0 %100
56	MP-2	Z	.003	.003 0 %100
57	MP-3	Z	.003	.003 0 %100
58	MP-4	Z	.003	.003 0 %100
59	MP-5	Z	.003	.003 0 %100
60	MP-6	Z	.003	.003 0 %100
61	MP-7	Z	.003	.003 0 %100
62	MP-8	Z	.003	.003 0 %100
63	MP-9	Z	.003	.003 0 %100
64	MP-10	Z	.003	.003 0 %100
65	MP-11	Z	.003	.003 0 %100
66	MP-12	Z	.003	.003 0 %100
67	MP-13	Z	.002	.002 0 %100
68	MP-14	Z	.002	.002 0 %100
69	MP-15	Z	.002	.002 0 %100
70	SA1	Z	.004	.004 0 %100
71	SA2	Z	.001	.001 0 %100
72	SA3	Z	.005	.005 0 %100
73	SR-1	Z	.002	.002 0 %100
74	SR-2	Z	.000932	.000932 0 %100
75	SR-3	Z	.003	.003 0 %100
76	SRB-1	Z	.002	.002 0 %100
77	SRB-2	Z	.000665	.000665 0 %100
78	SRB-3	Z	.002	.002 0 %100



Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
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**Member Distributed Loads (BLC 30 : 240 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...	End Location[ft,...	
1	CP-1	X	.003	.003	0	%100
2	CP-2	X	.001	.001	0	%100
3	CP-3	X	.002	.002	0	%100
4	FFTH-1	X	.002	.002	0	%100
5	FFTH-2	X	.004	.004	0	%100
6	FFTH-3	X	.002	.002	0	%100
7	GSC1	X	0	0	0	%100
8	GSC2	X	.003	.003	0	%100
9	GSC3	X	.002	.002	0	%100
10	GSOP1	X	.002	.002	0	%100
11	GSOP2	X	.003	.003	0	%100
12	GSOP3	X	.002	.002	0	%100
13	K1	X	.003	.003	0	%100
14	K2	X	.003	.003	0	%100
15	K3	X	.003	.003	0	%100
16	MP-1	X	.002	.002	0	%100
17	MP-2	X	.002	.002	0	%100
18	MP-3	X	.002	.002	0	%100
19	MP-4	X	.002	.002	0	%100
20	MP-5	X	.002	.002	0	%100
21	MP-6	X	.002	.002	0	%100
22	MP-7	X	.002	.002	0	%100
23	MP-8	X	.002	.002	0	%100
24	MP-9	X	.002	.002	0	%100
25	MP-10	X	.002	.002	0	%100
26	MP-11	X	.002	.002	0	%100
27	MP-12	X	.002	.002	0	%100
28	MP-13	X	.002	.002	0	%100
29	MP-14	X	.002	.002	0	%100
30	MP-15	X	.002	.002	0	%100
31	SA1	X	.003	.003	0	%100
32	SA2	X	0	0	0	%100
33	SA3	X	.003	.003	0	%100
34	SR-1	X	.001	.001	0	%100
35	SR-2	X	.001	.001	0	%100
36	SR-3	X	.002	.002	0	%100
37	SRB-1	X	.002	.002	0	%100
38	SRB-2	X	.00081	.00081	0	%100
39	SRB-3	X	.000945	.000945	0	%100
40	CP-1	Z	.005	.005	0	%100
41	CP-2	Z	.003	.003	0	%100
42	CP-3	Z	.002	.002	0	%100
43	FFTH-1	Z	.003	.003	0	%100
44	FFTH-2	Z	.007	.007	0	%100
45	FFTH-3	Z	.004	.004	0	%100
46	GSC1	Z	0	0	0	%100
47	GSC2	Z	.004	.004	0	%100
48	GSC3	Z	.005	.005	0	%100
49	GSOP1	Z	.003	.003	0	%100
50	GSOP2	Z	.006	.006	0	%100
51	GSOP3	Z	.003	.003	0	%100
52	K1	Z	.006	.006	0	%100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...	End Location[ft,...	
53	K2	Z	.006	.006	0	%100
54	K3	Z	.006	.006	0	%100
55	MP-1	Z	.004	.004	0	%100
56	MP-2	Z	.004	.004	0	%100
57	MP-3	Z	.004	.004	0	%100
58	MP-4	Z	.004	.004	0	%100
59	MP-5	Z	.004	.004	0	%100
60	MP-6	Z	.004	.004	0	%100
61	MP-7	Z	.004	.004	0	%100
62	MP-8	Z	.004	.004	0	%100
63	MP-9	Z	.004	.004	0	%100
64	MP-10	Z	.004	.004	0	%100
65	MP-11	Z	.004	.004	0	%100
66	MP-12	Z	.004	.004	0	%100
67	MP-13	Z	.003	.003	0	%100
68	MP-14	Z	.003	.003	0	%100
69	MP-15	Z	.003	.003	0	%100
70	SA1	Z	.005	.005	0	%100
71	SA2	Z	0	0	0	%100
72	SA3	Z	.005	.005	0	%100
73	SR-1	Z	.002	.002	0	%100
74	SR-2	Z	.002	.002	0	%100
75	SR-3	Z	.004	.004	0	%100
76	SRB-1	Z	.003	.003	0	%100
77	SRB-2	Z	.002	.002	0	%100
78	SRB-3	Z	.001	.001	0	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...	End Location[ft,...	
1	CP-1	Z	.005	.005	0	%100
2	CP-2	Z	.005	.005	0	%100
3	CP-3	Z	0	0	0	%100
4	FFTH-1	Z	0	0	0	%100
5	FFTH-2	Z	.007	.007	0	%100
6	FFTH-3	Z	.007	.007	0	%100
7	GSC1	Z	.003	.003	0	%100
8	GSC2	Z	.003	.003	0	%100
9	GSC3	Z	.007	.007	0	%100
10	GSOP1	Z	0	0	0	%100
11	GSOP2	Z	.006	.006	0	%100
12	GSOP3	Z	.006	.006	0	%100
13	K1	Z	.007	.007	0	%100
14	K2	Z	.007	.007	0	%100
15	K3	Z	.007	.007	0	%100
16	MP-1	Z	.004	.004	0	%100
17	MP-2	Z	.004	.004	0	%100
18	MP-3	Z	.004	.004	0	%100
19	MP-4	Z	.005	.005	0	%100
20	MP-5	Z	.004	.004	0	%100
21	MP-6	Z	.004	.004	0	%100
22	MP-7	Z	.004	.004	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DJM  
 Job Number : TEP No. 25666.598873  
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
23	MP-8	Z	.005	.005 0 %100
24	MP-9	Z	.004	.004 0 %100
25	MP-10	Z	.004	.004 0 %100
26	MP-11	Z	.004	.004 0 %100
27	MP-12	Z	.005	.005 0 %100
28	MP-13	Z	.004	.004 0 %100
29	MP-14	Z	.004	.004 0 %100
30	MP-15	Z	.004	.004 0 %100
31	SA1	Z	.007	.007 0 %100
32	SA2	Z	.003	.003 0 %100
33	SA3	Z	.003	.003 0 %100
34	SR-1	Z	0	0 %100
35	SR-2	Z	.004	.004 0 %100
36	SR-3	Z	.004	.004 0 %100
37	SRB-1	Z	.003	.003 0 %100
38	SRB-2	Z	.003	.003 0 %100
39	SRB-3	Z	0	0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	CP-1	X	-.001	-.001 0 %100
2	CP-2	X	-.003	-.003 0 %100
3	CP-3	X	-.002	-.002 0 %100
4	FFTH-1	X	-.002	-.002 0 %100
5	FFTH-2	X	-.002	-.002 0 %100
6	FFTH-3	X	-.004	-.004 0 %100
7	GSC1	X	-.003	-.003 0 %100
8	GSC2	X	0	0 %100
9	GSC3	X	-.002	-.002 0 %100
10	GSOP1	X	-.002	-.002 0 %100
11	GSOP2	X	-.002	-.002 0 %100
12	GSOP3	X	-.003	-.003 0 %100
13	K1	X	-.003	-.003 0 %100
14	K2	X	-.003	-.003 0 %100
15	K3	X	-.003	-.003 0 %100
16	MP-1	X	-.002	-.002 0 %100
17	MP-2	X	-.002	-.002 0 %100
18	MP-3	X	-.002	-.002 0 %100
19	MP-4	X	-.002	-.002 0 %100
20	MP-5	X	-.002	-.002 0 %100
21	MP-6	X	-.002	-.002 0 %100
22	MP-7	X	-.002	-.002 0 %100
23	MP-8	X	-.002	-.002 0 %100
24	MP-9	X	-.002	-.002 0 %100
25	MP-10	X	-.002	-.002 0 %100
26	MP-11	X	-.002	-.002 0 %100
27	MP-12	X	-.002	-.002 0 %100
28	MP-13	X	-.002	-.002 0 %100
29	MP-14	X	-.002	-.002 0 %100
30	MP-15	X	-.002	-.002 0 %100
31	SA1	X	-.003	-.003 0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
32	SA2	X	-.003	-.003 0 %100
33	SA3	X	0	0 %100
34	SR-1	X	-.001	-.001 0 %100
35	SR-2	X	-.002	-.002 0 %100
36	SR-3	X	-.001	-.001 0 %100
37	SRB-1	X	-.00081	-.00081 0 %100
38	SRB-2	X	-.002	-.002 0 %100
39	SRB-3	X	-.000945	-.000945 0 %100
40	CP-1	Z	.003	.003 0 %100
41	CP-2	Z	.005	.005 0 %100
42	CP-3	Z	.002	.002 0 %100
43	FFTH-1	Z	.003	.003 0 %100
44	FFTH-2	Z	.004	.004 0 %100
45	FFTH-3	Z	.007	.007 0 %100
46	GSC1	Z	.004	.004 0 %100
47	GSC2	Z	0	0 %100
48	GSC3	Z	.005	.005 0 %100
49	GSOP1	Z	.003	.003 0 %100
50	GSOP2	Z	.003	.003 0 %100
51	GSOP3	Z	.006	.006 0 %100
52	K1	Z	.006	.006 0 %100
53	K2	Z	.006	.006 0 %100
54	K3	Z	.006	.006 0 %100
55	MP-1	Z	.004	.004 0 %100
56	MP-2	Z	.004	.004 0 %100
57	MP-3	Z	.004	.004 0 %100
58	MP-4	Z	.004	.004 0 %100
59	MP-5	Z	.004	.004 0 %100
60	MP-6	Z	.004	.004 0 %100
61	MP-7	Z	.004	.004 0 %100
62	MP-8	Z	.004	.004 0 %100
63	MP-9	Z	.004	.004 0 %100
64	MP-10	Z	.004	.004 0 %100
65	MP-11	Z	.004	.004 0 %100
66	MP-12	Z	.004	.004 0 %100
67	MP-13	Z	.003	.003 0 %100
68	MP-14	Z	.003	.003 0 %100
69	MP-15	Z	.003	.003 0 %100
70	SA1	Z	.005	.005 0 %100
71	SA2	Z	.005	.005 0 %100
72	SA3	Z	0	0 %100
73	SR-1	Z	.002	.002 0 %100
74	SR-2	Z	.004	.004 0 %100
75	SR-3	Z	.002	.002 0 %100
76	SRB-1	Z	.002	.002 0 %100
77	SRB-2	Z	.003	.003 0 %100
78	SRB-3	Z	.001	.001 0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...End Location[ft,...
1	CP-1	X	-.001	-.001 0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft....End Location[ft....
2	CP-2	X	-0.04	0 %100
3	CP-3	X	-0.03	0 %100
4	FFTH-1	X	-0.04	0 %100
5	FFTH-2	X	-0.01	0 %100
6	FFTH-3	X	-0.05	0 %100
7	GSC1	X	-0.04	0 %100
8	GSC2	X	-0.01	0 %100
9	GSC3	X	-0.03	0 %100
10	GSOP1	X	-0.04	0 %100
11	GSOP2	X	-0.01	0 %100
12	GSOP3	X	-0.04	0 %100
13	K1	X	-0.04	0 %100
14	K2	X	-0.04	0 %100
15	K3	X	-0.04	0 %100
16	MP-1	X	-0.03	0 %100
17	MP-2	X	-0.03	0 %100
18	MP-3	X	-0.03	0 %100
19	MP-4	X	-0.03	0 %100
20	MP-5	X	-0.03	0 %100
21	MP-6	X	-0.03	0 %100
22	MP-7	X	-0.03	0 %100
23	MP-8	X	-0.03	0 %100
24	MP-9	X	-0.03	0 %100
25	MP-10	X	-0.03	0 %100
26	MP-11	X	-0.03	0 %100
27	MP-12	X	-0.03	0 %100
28	MP-13	X	-0.02	0 %100
29	MP-14	X	-0.02	0 %100
30	MP-15	X	-0.02	0 %100
31	SA1	X	-0.03	0 %100
32	SA2	X	-0.05	0 %100
33	SA3	X	-0.01	0 %100
34	SR-1	X	-0.03	0 %100
35	SR-2	X	-0.03	0 %100
36	SR-3	X	-0.00758	0 %100
37	SRB-1	X	-0.00593	0 %100
38	SRB-2	X	-0.02	0 %100
39	SRB-3	X	-0.02	0 %100
40	CP-1	Z	.01	0 %100
41	CP-2	Z	.04	0 %100
42	CP-3	Z	.03	0 %100
43	FFTH-1	Z	.04	0 %100
44	FFTH-2	Z	.02	0 %100
45	FFTH-3	Z	.06	0 %100
46	GSC1	Z	.04	0 %100
47	GSC2	Z	.01	0 %100
48	GSC3	Z	.03	0 %100
49	GSOP1	Z	.03	0 %100
50	GSOP2	Z	.01	0 %100
51	GSOP3	Z	.05	0 %100
52	K1	Z	.05	0 %100
53	K2	Z	.05	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft....End Location[ft....
54	K3	Z	.05	0 %100
55	MP-1	Z	.03	0 %100
56	MP-2	Z	.03	0 %100
57	MP-3	Z	.03	0 %100
58	MP-4	Z	.03	0 %100
59	MP-5	Z	.03	0 %100
60	MP-6	Z	.03	0 %100
61	MP-7	Z	.03	0 %100
62	MP-8	Z	.03	0 %100
63	MP-9	Z	.03	0 %100
64	MP-10	Z	.03	0 %100
65	MP-11	Z	.03	0 %100
66	MP-12	Z	.03	0 %100
67	MP-13	Z	.02	0 %100
68	MP-14	Z	.02	0 %100
69	MP-15	Z	.02	0 %100
70	SA1	Z	.04	0 %100
71	SA2	Z	.05	0 %100
72	SA3	Z	.01	0 %100
73	SR-1	Z	.02	0 %100
74	SR-2	Z	.03	0 %100
75	SR-3	Z	.00932	0 %100
76	SRB-1	Z	.00665	0 %100
77	SRB-2	Z	.02	0 %100
78	SRB-3	Z	.02	0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft....End Location[ft....
1	CP-1	X	0	0 %100
2	CP-2	X	-0.04	0 %100
3	CP-3	X	-0.05	0 %100
4	FFTH-1	X	-0.07	0 %100
5	FFTH-2	X	0	0 %100
6	FFTH-3	X	-0.05	0 %100
7	GSC1	X	-0.06	0 %100
8	GSC2	X	-0.03	0 %100
9	GSC3	X	-0.02	0 %100
10	GSOP1	X	-0.05	0 %100
11	GSOP2	X	0	0 %100
12	GSOP3	X	-0.05	0 %100
13	K1	X	-0.05	0 %100
14	K2	X	-0.05	0 %100
15	K3	X	-0.05	0 %100
16	MP-1	X	-0.03	0 %100
17	MP-2	X	-0.03	0 %100
18	MP-3	X	-0.03	0 %100
19	MP-4	X	-0.04	0 %100
20	MP-5	X	-0.03	0 %100
21	MP-6	X	-0.03	0 %100
22	MP-7	X	-0.03	0 %100
23	MP-8	X	-0.04	0 %100





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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft]...	End Location[ft]...	
24	MP-9	X	-0.03	0	%100	
25	MP-10	X	-0.03	0	%100	
26	MP-11	X	-0.03	0	%100	
27	MP-12	X	-0.04	0	%100	
28	MP-13	X	-0.03	0	%100	
29	MP-14	X	-0.03	0	%100	
30	MP-15	X	-0.03	0	%100	
31	SA1	X	-0.03	0	%100	
32	SA2	X	-0.06	0	%100	
33	SA3	X	-0.03	0	%100	
34	SR-1	X	-0.04	0	%100	
35	SR-2	X	-0.03	0	%100	
36	SR-3	X	0	0	%100	
37	SRB-1	X	0	0	%100	
38	SRB-2	X	-0.02	0	%100	
39	SRB-3	X	-0.03	0	%100	
40	CP-1	Z	0	0	%100	
41	CP-2	Z	.003	.003	0	%100
42	CP-3	Z	.002	.002	0	%100
43	FFTH-1	Z	.003	.003	0	%100
44	FFTH-2	Z	0	0	0	%100
45	FFTH-3	Z	.004	.004	0	%100
46	GSC1	Z	.003	.003	0	%100
47	GSC2	Z	.001	.001	0	%100
48	GSC3	Z	.002	.002	0	%100
49	GSOP1	Z	.003	.003	0	%100
50	GSOP2	Z	0	0	0	%100
51	GSOP3	Z	.003	.003	0	%100
52	K1	Z	.004	.004	0	%100
53	K2	Z	.004	.004	0	%100
54	K3	Z	.004	.004	0	%100
55	MP-1	Z	.002	.002	0	%100
56	MP-2	Z	.002	.002	0	%100
57	MP-3	Z	.002	.002	0	%100
58	MP-4	Z	.002	.002	0	%100
59	MP-5	Z	.002	.002	0	%100
60	MP-6	Z	.002	.002	0	%100
61	MP-7	Z	.002	.002	0	%100
62	MP-8	Z	.002	.002	0	%100
63	MP-9	Z	.002	.002	0	%100
64	MP-10	Z	.002	.002	0	%100
65	MP-11	Z	.002	.002	0	%100
66	MP-12	Z	.002	.002	0	%100
67	MP-13	Z	.002	.002	0	%100
68	MP-14	Z	.002	.002	0	%100
69	MP-15	Z	.002	.002	0	%100
70	SA1	Z	.002	.002	0	%100
71	SA2	Z	.003	.003	0	%100
72	SA3	Z	.002	.002	0	%100
73	SR-1	Z	.002	.002	0	%100
74	SR-2	Z	.002	.002	0	%100
75	SR-3	Z	0	0	0	%100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft]...	End Location[ft]...	
76	SRB-1	Z	0	0	%100	
77	SRB-2	Z	.002	.002	0	%100
78	SRB-3	Z	.001	.001	0	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft]...	End Location[ft]...
1	FFTH-1	Y	-0.03	0	2.333
2	FFTH-1	Y	-0.06	2.333	4.667
3	FFTH-1	Y	-0.09	4.667	7
4	FFTH-1	Y	-0.09	7	9.333
5	FFTH-1	Y	-0.09	9.333	11.667
6	FFTH-1	Y	-0.06	11.667	14
7	GSC1	Y	-0.03	0	2
8	GSC1	Y	-0.12	2	4
9	GSC2	Y	-0.03	0	2
10	GSC2	Y	-0.12	2	4
11	GSOP1	Y	-0.09	.011	7.061
12	SA1	Y	-0.21	.25	2.25
13	FFTH-3	Y	-0.03	0	2.333
14	FFTH-3	Y	-0.06	2.333	4.667
15	FFTH-3	Y	-0.09	4.667	7
16	FFTH-3	Y	-0.09	7	9.333
17	FFTH-3	Y	-0.09	9.333	11.667
18	FFTH-3	Y	-0.06	11.667	14
19	GSC3	Y	-0.03	0	2
20	GSC3	Y	-0.12	2	4
21	GSOP3	Y	-0.09	.004	7.061
22	SA3	Y	-0.21	.25	2.25
23	FFTH-2	Y	-0.03	0	2.333
24	FFTH-2	Y	-0.06	2.333	4.667
25	FFTH-2	Y	-0.09	4.667	7
26	FFTH-2	Y	-0.09	7	9.333
27	FFTH-2	Y	-0.09	9.333	11.667
28	FFTH-2	Y	-0.06	11.667	14
29	GSOP2	Y	-0.09	.011	7.068
30	SA2	Y	-0.21	.25	2.25

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft]...	End Location[ft]...
1	FFTH-1	Y	-0.02	0	2.333
2	FFTH-1	Y	-0.04	2.333	4.667
3	FFTH-1	Y	-0.06	4.667	7
4	FFTH-1	Y	-0.06	7	9.333
5	FFTH-1	Y	-0.06	9.333	11.667
6	FFTH-1	Y	-0.04	11.667	14
7	GSC1	Y	-0.02	0	2
8	GSC1	Y	-0.08	2	4
9	GSC2	Y	-0.02	0	2
10	GSC2	Y	-0.08	2	4
11	GSOP1	Y	-0.06	.011	7.061
12	SA1	Y	-0.14	.25	2.25



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...	End Location[ft,...
13	FFTH-3	Y	-0.02	0	2.333
14	FFTH-3	Y	-0.04	2.333	4.667
15	FFTH-3	Y	-0.06	4.667	7
16	FFTH-3	Y	-0.06	7	9.333
17	FFTH-3	Y	-0.06	9.333	11.667
18	FFTH-3	Y	-0.04	11.667	14
19	GSC3	Y	-0.02	0	2
20	GSC3	Y	-0.08	2	4
21	GSOP3	Y	-0.06	.004	7.061
22	SA3	Y	-0.14	.25	2.25
23	FFTH-2	Y	-0.02	0	2.333
24	FFTH-2	Y	-0.04	2.333	4.667
25	FFTH-2	Y	-0.06	4.667	7
26	FFTH-2	Y	-0.06	7	9.333
27	FFTH-2	Y	-0.06	9.333	11.667
28	FFTH-2	Y	-0.04	11.667	14
29	GSOP2	Y	-0.06	.011	7.068
30	SA2	Y	-0.14	.25	2.25

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	GS18	FF2	FF4	GS17	Y	Two Way	-.012
2	GS17	FF4	SF1-2	GS19	Y	Two Way	-.012
3	GS19	SF1-2	FF2	GS18	Y	Two Way	-.012

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	GS18	FF2	FF4	GS17	Y	Two Way	-.008
2	GS17	FF4	SF1-2	GS19	Y	Two Way	-.008
3	GS19	SF1-2	FF2	GS18	Y	Two Way	-.008

**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	N55A	max	.709	2	.619	34	6.489	22	0	98	0	98
2		min	-1.001	26	.014	11	-6.371	14	0	1	0	1
3	N62A	max	5.191	18	.611	38	3.01	5	0	98	0	98
4		min	-5.135	10	.012	17	-3.286	29	0	1	0	1
5	N63A	max	5.449	16	.615	46	3.643	23	0	98	0	98
6		min	-5.483	24	.007	6	-3.285	15	0	1	0	1
7	N98	max	3.326	45	4.043	45	5.759	45	0	10	0	10
8		min	-.368	5	-.46	5	-.638	5	0	18	0	18
9	N99	max	.73	10	4.066	34	.07	6	0	5	0	29
10		min	-6.692	34	-.456	10	-.07	14	0	29	0	5
11	N100	max	3.526	39	4.28	39	.614	15	0	18	0	18
12		min	-.354	15	-.443	15	-6.104	39	0	10	0	18
13	Totals:	max	7.771	2	12.666	34	7.977	6				
14		min	-7.771	26	3.729	92	-7.977	30				



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

Member	Shape	Code Che...	Loc[ft]	LC	Shear Ch...	Loc[ft]	...	LC phi*Pnc [k]	phi*Pnt...	phi*Mn y...	phi*Mn...	Cb	Eqn		
1	FFTH-2	L3X3X4	.818	5.396	34	.178	14	y	39	15.746	46.656	1.688	2.981	2.099	H2-1
2	SR-3	PIPE 2.5	.815	.755	34	.088	12.687	42	2.453	50.715	3.596	3.596	2.705	H1-...	
3	FFTH-1	L3X3X4	.788	0	42	.178	0	y	40	15.746	46.656	1.688	2.775	1.696	H2-1
4	FFTH-3	L3X3X4	.742	0	45	.183	14	y	34	15.746	46.656	1.688	2.709	1.59	H2-1
5	SR-1	PIPE 2.5	.729	8.156	29	.102	1.057	40	2.453	50.715	3.596	3.596	3.188	H1-...	
6	SR-2	PIPE 2.5	.667	12.687	34	.100	1.057	45	2.453	50.715	3.596	3.596	2.185	H1-...	
7	MP-9	PIPE 2.5	.565	5.75	34	.080	5.75	32	28.468	50.715	3.596	3.596	2.286	H1-...	
8	MP-8	PIPE 2.5	.551	5.729	34	.078	5.729	20	28.468	50.715	3.596	3.596	1.845	H1-...	
9	MP-3	PIPE 2.5	.536	1.75	30	.120	5.75	29	45.408	50.715	3.596	3.596	1.754	H1-...	
10	MP-4	PIPE 2.5	.534	5.729	29	.076	5.729	31	28.468	50.715	3.596	3.596	1.434	H1-...	
11	CP-2	L2.5x2.5x4	.520	0	21	.074	1.218	y	20	36.734	38.556	1.114	2.537	2.178	H2-1
12	MP-10	PIPE 2.5	.516	1.75	33	.125	5.75	33	45.408	50.715	3.596	3.596	2.337	H1-...	
13	GSC2	LL3x3x4x0	.512	0	42	.143	.417	y	39	76.288	93.312	6.48	4.357	2.042	H1-...
14	MP-7	PIPE 2.5	.494	1.75	19	.105	5.75	18	45.408	50.715	3.596	3.596	2.299	H1-...	
15	MP-11	PIPE 2.5	.489	1.75	24	.081	5.75	23	45.408	50.715	3.596	3.596	2.332	H1-...	
16	CP-3	L2.5x2.5x4	.483	0	31	.074	1.218	y	20	36.734	38.556	1.114	2.537	2.21	H2-1
17	MP-2	PIPE 2.5	.481	5.75	22	.093	5.75	23	28.468	50.715	3.596	3.596	1.87	H1-...	
18	MP-12	PIPE 2.5	.481	5.729	39	.068	5.729	25	28.468	50.715	3.596	3.596	1.961	H1-...	
19	GSC1	LL3x3x4x0	.473	0	48	.133	.417	y	45	76.288	93.312	6.48	4.357	2.032	H1-...
20	MP-5	PIPE 2.5	.472	5.75	45	.071	5.75	26	28.468	50.715	3.596	3.596	2.351	H1-...	
21	CP-1	L2.5x2.5x4	.465	0	25	.067	0	y	25	36.734	38.556	1.114	2.537	1.817	H2-1
22	GSC3	LL3x3x4x0	.455	0	47	.134	.417	y	34	76.288	93.312	6.48	4.357	1.963	H1-...
23	MP-6	PIPE 2.5	.453	5.75	28	.087	5.75	29	28.468	50.715	3.596	3.596	2.325	H1-...	
24	MP-1	PIPE 2.5	.452	5.75	39	.074	5.75	21	28.468	50.715	3.596	3.596	1.375	H1-...	
25	MP-15	PIPE 2.0	.381	4	33	.026	4	33	13.788	32.13	1.872	1.872	2.159	H1-...	
26	MP-13	PIPE 2.0	.381	4	30	.026	4	30	13.788	32.13	1.872	1.872	1.667	H1-...	
27	MP-14	PIPE 2.0	.381	4	19	.026	4	19	13.788	32.13	1.872	1.872	2.159	H1-...	
28	GSOP1	L3X3X4	.376	3.536	28	.049	3.536	y	45	35.568	46.656	1.688	3.339	1.641	H2-1
29	GSOP2	L3X3X4	.371	3.536	19	.054	3.536	y	34	35.568	46.656	1.688	3.394	1.771	H2-1
30	K2	LL2.5x2.5x3x0	.361	3.91	40	.006	7.819	z	19	26.743	58.32	3.3	2.477	1.136	H1-...
31	K3	LL2.5x2.5x3x0	.344	3.91	34	.006	0	z	30	26.743	58.32	3.3	2.477	1	H1-...
32	K1	LL2.5x2.5x3x0	.344	3.91	44	.006	7.819	z	33	26.743	58.32	3.3	2.477	1.136	H1-...
33	GSOP3	L3X3X4	.310	3.536	18	.050	3.536	y	34	35.568	46.656	1.688	3.253	1.465	H2-1
34	SRB-1	PIPE 2.0	.044	2.911	21	.059	5.821	33	21.402	32.13	1.872	1.872	1.136	H1-...	
35	SRB-2	PIPE 2.0	.043	2.911	31	.065	0	27	21.402	32.13	1.872	1.872	1.136	H1-...	
36	SRB-3	PIPE 2.0	.043	2.911	26	.054	5.821	30	21.402	32.13	1.872	1.872	1.136	H1-...	

# Exhibit F

## **Power Density/RF Emissions Report**

RADIO FREQUENCY EMISSIONS ANALYSIS REPORT  
EVALUATION OF HUMAN EXPOSURE POTENTIAL  
TO NON-IONIZING EMISSIONS

AT&T Existing Facility

Site ID: CTL05379

803175

167 Cocomo

New Britain, Connecticut 06051

**February 6, 2022**

**EBI Project Number: 6222000333**

Site Compliance Summary	
Compliance Status:	<b>COMPLIANT</b>
Site total MPE% of FCC general population allowable limit:	<b>30.60%</b>

February 6, 2022

AT&T

Emissions Analysis for Site: CTL05379 - 803175

EBI Consulting was directed to analyze the proposed AT&T facility located at **167 Cocomo** in **New Britain, Connecticut** for the purpose of determining whether the emissions from the Proposed AT&T Antenna Installation located on this property are within specified federal limits.

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

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

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

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ( $\mu\text{W}/\text{cm}^2$ ). The general population exposure limits for the 600 MHz and 700 MHz frequency bands are approximately  $400 \mu\text{W}/\text{cm}^2$  and  $467 \mu\text{W}/\text{cm}^2$ , respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 11 GHz frequency bands is  $1000 \mu\text{W}/\text{cm}^2$ . Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully

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

Additional details can be found in FCC OET 65.

## **CALCULATIONS**

Calculations were done for the proposed AT&T Wireless antenna facility located at 167 Cocomo in New Britain, Connecticut using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since AT&T is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was focused at the base of the tower. For this report, the sample point is the top of a 6-foot person standing at the base of the tower. For power density calculations, the broadcast footprint of the AIR6449 antenna has been considered. Due to the beamforming nature of this antenna, the actual beam locations vary depending on demand and are narrow in nature. Using the broadcast footprint accounts for the potential location of beams at any given time.

For all calculations, all equipment was calculated using the following assumptions:

- 1) 4 LTE channels (700 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 2) 2 LTE DE channels (700 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 3) 4 LTE FN channels (700 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 4) 4 5G channels (850 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 5) 4 LTE / 5G channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.

- 6) 4 LTE / 5G channels (AWS Band – 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 7) 4 LTE channels (WCS Band – 2300 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 25 Watts per Channel.
- 8) 2 C-Band Channels (3700 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 144.58 Watts per Channel.
- 9) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
- 10) For the following calculations, the sample point was the top of a 6-foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was used in this direction. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 11) The antennas used in this modeling are the Quintel QD4616-7 for the 700 MHz / 700 MHz / 1900 MHz / 2100 MHz channel(s), the Ericsson AIR 6419 for the 3700 MHz channel(s), the Ericsson AIR 6449 for the 3700 MHz channel(s), the CCI DMP65R-BU4DA for the 700 MHz / 850 MHz / 2300 MHz channel(s) in Sector A, the Quintel QD6616-7 for the 700 MHz / 700 MHz / 1900 MHz / 2100 MHz channel(s), the Ericsson AIR 6419 for the 3700 MHz channel(s), the Ericsson AIR 6449 for the 3700 MHz channel(s), the CCI DMP65R-BU4DA for the 700 MHz / 850 MHz / 2300 MHz channel(s) in Sector B, the Quintel QD6616-7 for the 700 MHz / 700 MHz / 1900 MHz / 2100 MHz channel(s), the Ericsson AIR 6419 for the 3700 MHz channel(s), the Ericsson AIR 6449 for the 3700 MHz channel(s), the CCI DMP65R-BU6DA for the 700 MHz / 850 MHz / 2300 MHz channel(s) in Sector C. This is based on feedback from the carrier with regard to anticipated antenna selection. All Antenna gain values and associated transmit power levels are shown in the Site Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.

- 12) The antenna mounting height centerline of the proposed antennas is 190 feet above ground level (AGL).
- 13) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.
- 14) All calculations were done with respect to uncontrolled / general population threshold limits.



## AT&T Site Inventory and Power Data

Sector:	A	Sector:	B	Sector:	C
Antenna #:	1	Antenna #:	1	Antenna #:	1
Make / Model:	Quintel QD4616-7	Make / Model:	Quintel QD6616-7	Make / Model:	Quintel QD6616-7
Frequency Bands:	700 MHz / 700 MHz / 1900 MHz / 2100 MHz	Frequency Bands:	700 MHz / 700 MHz / 1900 MHz / 2100 MHz	Frequency Bands:	700 MHz / 700 MHz / 1900 MHz / 2100 MHz
Gain:	10.8712 dBd / 10.8712 dBd / 14.3071 dBd / 14.8883 dBd	Gain:	11.97 dBd / 11.97 dBd / 15.11 dBd / 15.33 dBd	Gain:	11.97 dBd / 11.97 dBd / 15.11 dBd / 15.33 dBd
Height (AGL):	190 feet	Height (AGL):	190 feet	Height (AGL):	190 feet
Channel Count:	14	Channel Count:	14	Channel Count:	14
Total TX Power (W):	560 Watts	Total TX Power (W):	560 Watts	Total TX Power (W):	560 Watts
ERP (W):	12,177.80	ERP (W):	14,426.08	ERP (W):	14,426.08
Antenna A1 MPE %:	<b>1.65%</b>	Antenna B1 MPE %:	<b>1.99%</b>	Antenna C1 MPE %:	<b>1.99%</b>
Antenna #:	2	Antenna #:	2	Antenna #:	2
Make / Model:	Ericsson AIR 6419	Make / Model:	Ericsson AIR 6419	Make / Model:	Ericsson AIR 6419
Frequency Bands:	3700 MHz	Frequency Bands:	3700 MHz	Frequency Bands:	3700 MHz
Gain:	23.45 dBd	Gain:	23.45 dBd	Gain:	23.45 dBd
Height (AGL):	190 feet	Height (AGL):	190 feet	Height (AGL):	190 feet
Channel Count:	1	Channel Count:	1	Channel Count:	1
Total TX Power (W):	144.58	Total TX Power (W):	144.58	Total TX Power (W):	144.58
ERP (W):	31,996.92	ERP (W):	31,996.92	ERP (W):	31,996.92
Antenna A2 MPE %:	<b>3.40%</b>	Antenna B2 MPE %:	<b>3.40%</b>	Antenna C2 MPE %:	<b>3.40%</b>
Antenna #:	3	Antenna #:	3	Antenna #:	3
Make / Model:	Ericsson AIR 6449	Make / Model:	Ericsson AIR 6449	Make / Model:	Ericsson AIR 6449
Frequency Bands:	3700 MHz	Frequency Bands:	3700 MHz	Frequency Bands:	3700 MHz
Gain:	23.45 dBd	Gain:	23.45 dBd	Gain:	23.45 dBd
Height (AGL):	190 feet	Height (AGL):	190 feet	Height (AGL):	190 feet
Channel Count:	1	Channel Count:	1	Channel Count:	1
Total TX Power (W):	144.58	Total TX Power (W):	144.58	Total TX Power (W):	144.58
ERP (W):	31,996.92	ERP (W):	31,996.92	ERP (W):	31,996.92
Antenna A3 MPE %:	<b>3.40%</b>	Antenna B3 MPE %:	<b>3.40%</b>	Antenna C3 MPE %:	<b>3.40%</b>
Antenna #:	4	Antenna #:	4	Antenna #:	4
Make / Model:	CCI DMP65R-BU4DA	Make / Model:	CCI DMP65R-BU4DA	Make / Model:	CCI DMP65R-BU6DA
Frequency Bands:	700 MHz / 850 MHz / 2300 MHz	Frequency Bands:	700 MHz / 850 MHz / 2300 MHz	Frequency Bands:	700 MHz / 850 MHz / 2300 MHz
Gain:	9.95 dBd / 10.25 dBd / 14.65 dBd	Gain:	11.85 dBd / 12.45 dBd / 16.25 dBd	Gain:	11.85 dBd / 12.45 dBd / 16.25 dBd
Height (AGL):	190 feet	Height (AGL):	190 feet	Height (AGL):	190 feet
Channel Count:	12	Channel Count:	12	Channel Count:	12
Total TX Power (W):	420 Watts	Total TX Power (W):	420 Watts	Total TX Power (W):	420 Watts
ERP (W):	6,193.92	ERP (W):	9,479.38	ERP (W):	9,479.38
Antenna A4 MPE %:	<b>0.99%</b>	Antenna B4 MPE %:	<b>1.53%</b>	Antenna C4 MPE %:	<b>1.53%</b>

- An adjusted power reduction factor of 0.32 was applied to the AIR 6449 antennas per guidance from AT&T.

- Specifications were not available for the Ericsson AIR 6419 antenna. Per AT&T, specifications for the AIR 6449 antenna were used to model the 6419 due to its similarity.

Site Composite MPE %	
Carrier	MPE %
AT&T (Max at Sector B):	10.32%
Dish	5.95%
T-Mobile	4.72%
Verizon	9.61%
Site Total MPE % :	30.60%

AT&T MPE % Per Sector	
AT&T Sector A Total:	9.43%
AT&T Sector B Total:	10.32%
AT&T Sector C Total:	10.32%
Site Total MPE % :	30.60%

### AT&T Maximum MPE Power Values (Sector B)

AT&T Frequency Band / Technology (Sector B)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density ( $\mu\text{W}/\text{cm}^2$ )	Frequency (MHz)	Allowable MPE ( $\mu\text{W}/\text{cm}^2$ )	Calculated % MPE
AT&T 700 MHz LTE FN	4	629.59	190.0	2.67	700 MHz LTE FN	467	0.57%
AT&T 700 MHz LTE DE	2	629.59	190.0	1.34	700 MHz LTE DE	467	0.29%
AT&T 1900 MHz LTE/5G	4	1297.36	190.0	5.51	1900 MHz LTE/5G	1000	0.55%
AT&T 2100 MHz LTE/5G	4	1364.77	190.0	5.80	2100 MHz LTE/5G	1000	0.58%
AT&T 3700 MHz C-Band	1	31996.92	190.0	33.98	3700 MHz C-Band	1000	3.40%
AT&T 3700 MHz C-Band	1	31996.92	190.0	33.98	3700 MHz C-Band	1000	3.40%
AT&T 700 MHz LTE	4	612.43	190.0	2.60	700 MHz LTE	467	0.56%
AT&T 850 MHz 5G	4	703.17	190.0	2.99	850 MHz 5G	567	0.53%
AT&T 2300 MHz LTE	4	1054.24	190.0	4.48	2300 MHz LTE	1000	0.45%
						<b>Total:</b>	<b>10.32%</b>

• NOTE: Totals may vary by approximately 0.01% due to summation of remainders in calculations.

## Summary

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

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

AT&T Sector	Power Density Value (%)
Sector A:	9.43%
Sector B:	10.32%
Sector C:	10.32%
AT&T Maximum MPE % (Sector B):	10.32%
Site Total:	30.60%
Site Compliance Status:	<b>COMPLIANT</b>

The anticipated composite MPE value for this site assuming all carriers present is **30.60%** of the allowable FCC established general population limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

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

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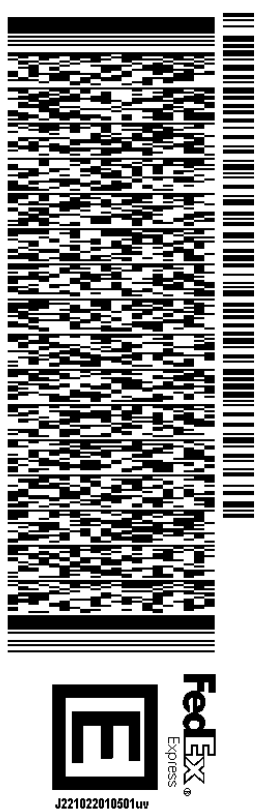
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