



Northeast Site Solutions
Denise Sabo
4 Angela's Way, Burlington CT 06013
203-435-3640
denise@northeastsitesolutions.com

April 1, 2021

Members of the Siting Council
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

RE: Exempt Modification Application
316 Woodhouse Avenue, Wallingford CT 06492
Latitude: 41.43410
Longitude: -72.801461
T-Mobile Site#: 828915_Crown_ATT

Dear Ms. Bachman:

AT&T is requesting to file an exempt modification for an existing tower located at 316 Woodhouse Avenue, Wallingford CT. AT&T currently maintains nine (9) antennas at the 128-foot level of the existing 148-foot tower. The property is owned by the Connecticut Street Rod Association, and the tower is owned by Crown Castle. AT&T now intends to replace three (3) existing antenna with three (3) new 850/2100 MHz antenna. The new antennas would be installed at the 128-foot level of the tower. This modification includes B2, B5, and B12 hardware that is both 4G (LTE), and 5GNR capable through remote software configuration and either or both may be turned on or off at various times.

AT&T Planned Modifications:

Remove:

- (6) TMA – LPG- 21401
- (12) Katherine 860-10025 (Diplexers)

Remove and Replace:

- (3) Powerwave 7770– Antenna (REMOVE) - (3) CCI-HPA 65R-BU6A Antenna 850/2100 MHz (REPLACE)

Install New:

- Handrail Reinforcement Kit – PRK-SFS
- (3) CCI- TMABPD7823VG12A (TMA)

Existing to Remain:

- (3) Powerwave 7770 Antenna 850 MHz
- (1) 3/8" Fiber Lines
- (12) 1-5/8" Coax
- (2) 7/16" DC Cables



NSS **NORTHEAST**
SITE SOLUTIONS
Turnkey Wireless Development

- (3) RRUS11 B12
- (3) RRUS 32-B2
- (3) Katherine 782-10254 (Bias Tee)
- (6) Katherine 860-10025 (Diplexers)
- (1) Raycap
- (3) CCI-HPA 65R-BUU-H6 Antenna 737/1900 MHz

Ground Work:

- (1) New H-Frame
- (3) RRH 4449 B5/B12
- (3) RRH4426 B66
- (6) Kaelus Diplexers

This facility was approved by the Town of Wallingford P&Z – Dated February 22,2000. Please see attached.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies § 16- SOj-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-SOj-73, a copy of this letter is being sent to William A. Dickinson, Mayor, Elected Official and Amy Torre, Land Use Specialist/Zoning Enforcement Officer for the Town of Wallingford, as well as the property owner and the tower owner.

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

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

For the foregoing reasons, T-Mobile respectfully submits that the proposed modifications to the above referenced telecommunications facility constitute an exempt modification under R.C.S.A. § 16-50j-72(b)(2).



NSS

NORTHEAST
SITE SOLUTIONS

Turnkey Wireless Development

Sincerely,

Denise Sabo

Mobile: 203-435-3640

Fax: 413-521-0558

Office: 4 Angela's Way, Burlington CT 06013

Email: denise@northeastsitesolutions.com

Attachments cc:

The Honorable William A. Dickinson, Mayor
Town of Wallingford
45 South Main Street, Wallingford CT 06492

Amy Torre, Land Use Specialist/Zoning Enforcement Officer
Town of Wallingford
45 South Main Street, Wallingford CT 06492

Connecticut Street Rod Association
P.O. Box 1517, Wallingford CT 06492

Crown Castle – Tower Owner
Attn: Anne Marie Zsamba

Exhibit A

Date 2/22/00

Application # 226-98

PLANNING AND ZONING COMMISSION
AUTHORIZATION FOR ISSUANCE OF BUILDING PERMIT

Name of Applicant Omnipoint Communications

Location of Building Lot 316 Woodhouse Avenue

Permitted Use(s) 150' Monopole and slated equipment cabinetry for PCS wireless service

Sq. Ft. of Building _____

Date of PZC Approval February 16, 2000

Miscellaneous Info _____

Conditions _____

BY *X Bush*

Designated Agent
Wallingford Planning & Zoning Commission

PLANNING AND ZONING COMMISSION, TOWN OF WALLINGFORD
MINUTES OF FEBRUARY 16, 2000

PAGE

INDEX

- 1 Approval of Minutes – 1/10/00 & 1/24/00 - APPROVED AS PRESENTED
1 Election of Officers – HELD TONIGHT

PUBLIC HEARINGS:

- 2 1. Special Permit/Fill & Excavation/PNA/N. Plains Industrial Rd. - #419-99
P. HRG. CONT'D TO 3/31/00, 7:00 P.M.
4 2. Resubdivision/Plainfield Airport Business & Harvard Realty/Research
Parkway - #110-99 – P. HRG. NOT OPENED; RESCHED. TO 3/13/00
14 3. Zoning Regulation Amendment/Wallingford Equities, LLC/Sec. 5.1.C.**/
Building Heights in I-5 District – #508-99 -P. HRG. CONT'D TO 3/13/00
17 4. Subdivision Regulation Amendment/Deeds, Easements & Boundary
Markers/Sec. IV H - #507-99 – WITHDRAWN

NEW BUSINESS:

- 6 5. Subdivision/Wiedenmann/George Washington Trail & Scard Rd. –
#101-00 – TABLED TO 3/13/00

RECEIPT AND ACTION REQUESTED:

- 4 6. Accessory Apartment/Smith/Highland Avenue- #201-00-APPR. W/COND.
5 7. Accessory Apartment/Good & McPhee/High Hill Road - #202-00 –
APPR. W/COND.
5 8. Site Plan/Omnipoint/Woodhouse Avenue - #226-98 - APPROVED

BOND RELEASES AND REDUCTIONS:

- 17 9. Subdivision/Williams/Williams Road - #104-97 – NO ACTION
17 10. Site Plan/Midwood Management/Northrop Road- #258-98 –NO ACTION
18 11. Site Plan/Jeneric Pentron/North Plains Industrial Rd-#229-98-RELEASED
17-18 12. Ahearn/941, 957 Durham Road – NO ACTION;
Ahearn/959, 965 Durham Road – RELEASED
17 13. Subdivision/Wall/Williams Road - #103-92 – NO ACTION
17 14. Subdivision/Lauria/North Elm Street - #113-98 – NO ACTION
17 15. Subdivision/Vitali/North Elm Street & Seiter Hill Road - #108-92 – N.A.
17 16. Site Plan/Wallingford Property Assoc/North Plains Hwy.- #218-98 – N.A.
17 17. Special Permit/Bristol-Myers/Research Parkway - #410-97 – N.A.
18 17a. Subdivision/Brockett's Wood/DelFavero/Chimney Hill Road –
#116-90R - BOND REDUCED

CALLING OF BONDS:

- 18 18. Site Plan/Cassello/North Colony Street - #216-88 – APPROVED
18 19. Guidone/163 Parker Farms Road – APPROVED

ROAD ACCEPTANCES:

- 19 20. Subdivision/Robison/Quarry Run Court - #115-88 – NO ACTION
19 21. Subdivision/Dighello/Meadow Brook/Stoney Brook Road & Amie Lane
- #108-95 – ROADS ACCEPTED & BOND REDUCED
19 22. Subdivision/Beaudoin/High Hill Park/Sec(s) III,IV,V,VII&IX/Nathan
Hale Dr, Hemingway Dr.& Tammy Hill Rd.- #113-93 – NO ACTION

PLANNING AND ZONING COMMISSION, TOWN OF WALLINGFORD
MINUTES OF FEBRUARY 16, 2000

- 19 23. Subdivision/Circle M/Atwater Place & Barker Drive - #108-95- ROADS
ACCEPTED, COND. ON SIGN-OFFS & BOND REDUCTIONS TO
BE MADE

WAIVER OF IMPROVEMENTS REQUESTED:

- 19 24. Subdivision/W&W Properties/Williams Road - #104-95 – NO ACTION
19 25. Subdivision/Your Father's Moustache/Williams Rd. - #102-92 – N.A.
19 26. Subdivision/Meadow Brook/Dighello/East Center St. & Williams Rd. –
#108-95 – NO ACTION
19 26a. Subdivision/DelFavero/Chimney Hill Rd. – #429-90R – VOTED AS A
MINOR REQUEST; NO ACTION ON WAIVER REQUEST

CORRESPONDENCE:

- 21 27. HR2372/Private Property Rights Implementation Act of 1999 – NOTED
21 28. CFPZA/Annual Meeting Notice – NOTED
22 29. Wallingford Landfill/Hamel – DISCUSSED: NO SPECIAL PERMIT
NEEDED
22 30. NMHC/Multi-family Housing – NOTED

REPORTS OF OFFICERS AND STAFF:

- 22 31. ZBA Agenda – NOTED
22 32. Mobil Oil/Main Street, Yalesville/Town Attorney – FILE CLOSED
22 33. Administrative Approval/Change of Use/Vessichio/Yale Avenue –
#301-00 – NOTED
22 34. Videotaping of P&Z Program 2/29/00 – NOTED by Chm. Whitney & Staff
22 35. CYTEC Industries' Inquiry – DISCUSSED: TO SHOW WORKPOND
ON PERMIT RENEWAL PLANS

PLANNING AND ZONING COMMISSION, TOWN OF WALLINGFORD
MINUTES OF FEBRUARY 16, 2000

1. Final Inspection by the Zoning Enforcement Officer.

The motion was approved unanimously by Messrs. Menard, Seichter, DiNatale, Fitzsimmons, and Whitney.

7. Accessory Apartment/Good & McPhee/High Hill Road - #202-00

There was no correspondence on this item #7. Appearing for the applicants was Attorney Robert Regan of Wallingford.

Attorney Regan: Last month we went to the Zoning Board of Appeals, who approved a 648-square-foot accessory apartment. It is totally above the garage, with separate entrances on either end above the garage. I think we now comply.

MOTION: A motion was made by Mr. Seichter and seconded by Mr. Fitzsimmons to approve a 648 sq.ft. accessory apartment for Good & McPhee at 52 High Hill Road, subject to:

1. Final Inspection by the Zoning Enforcement Officer.

The motion was approved unanimously by Messrs. Menard, Seichter, DiNatale, Fitzsimmons, and Whitney.

8. Site Plan/Omnipoint/Woodhouse Avenue - #226-98

Reference is made to the memorandum from Corporation Counsel Adam Mantzaris to the Commission dated February 16, 2000 (Attachment 8A).

Chairman Whitney: This item is a result of a judgment against the Town of Wallingford for denying Omnipoint's application. The judge ruled against us and ordered approval of the plan. Unless anyone has questions, I'd entertain a motion to approve the site plan.

Mr. Seichter: Are we approving the plan to April 18, 1998?

Ms. Bush: This plan is "revised to 5/30/98 per Town comments".

Mr. Seichter: I think there were comments from a Town department that the utilities must be underground. Is that on the revised plan?

Ms. Bush: Mr. Talbot made copies of all the staff comments. Let me see if I can find that in the file. The utilities must be underground, per your regulations, so you don't need to make it a condition. I don't remember discussion of having either overhead or underground utilities for Omnipoint. No, I don't see any mention of, or utilities shown on, this drawing; but they will have to be underground.

Chairman Whitney: I understand that the judge reviewed the entire application that we would be approving.

PLANNING AND ZONING COMMISSION, TOWN OF WALLINGFORD
MINUTES OF FEBRUARY 16, 2000

Omnipoint Communications' attorney, Mr. Paul Tusch, came to the front of the audience, but he did not address the Commission.

Chairman Whitney: I'd call a five-minute recess to see if we can find anything in the office pertaining to this.

Ms. Bush: No. I brought the entire file up here.

RECESS: Chairman Whitney announced a five-minute recess of the meeting at 7:30 p.m. During the recess, Ms. Bush looked through the Omnipoint file. She showed the Return of Record list to the Commissioners. No Electric Division comments were listed. Mr. Talbot suggested looking in the prior meeting minutes. Chairman Whitney reconvened the meeting at 7:39 p.m. with the same Commissioners, staff, and audience present.

Chairman Whitney: The meeting is called to order. The Commission will resume discussion of item #8 for Omnipoint. We were ordered to approve this.

MOTION: A motion was made by Mr. Seichter and seconded by Mr. DiNatale to approve the Site Plan application for Omnipoint Communications for a 150-foot-high monopole and related equipment cabinetry for PCS Wireless Service at 316 Woodhouse Avenue as shown on plans entitled "Omnipoint Communications, Inc., Junior Achievement, 316 Woodhouse Avenue, Town of Wallingford", dated 04/18/98, revised to 05/30/98, subject to no conditions.

The motion was approved unanimously by Messrs. Menard, Seichter, DiNatale, Fitzsimmons, and Whitney.

NEW BUSINESS:

5. Subdivision/Wiedenmann/George Washington Trail & Scard Rd. - #101-00

Secretary Mr. Menard acknowledged the correspondence received from: Fire Marshal Joe Micolizzi dated 1/12/00 (Attachment 5A); Director of Health Maryann Cherniak Lexius and Town Sanitarian George Yasensky to PZC Chairman Austin, the Town Planner, and Environmental Planner Brent Smith dated 1/24/00 (Attachment 5B—two pages); the Town Planner to Mr. Robert Wiedenmann, Jr., dated 1/31/00 (Attachment 5C); the Town Engineer to PZC Chairman William Austin dated 1/27/00 (Attachment 5D—two pages); Mr. Bruce Soroka, P.E., L.S., to Ms. Maryann Cherniak Lexius, Director of Health, dated 2/1/00 (Attachment 5E); Environmental Planner Brent Smith dated 2/4/00 (Attachment 5F); and from Water & Sewer Divisions Sr. Engineer Vincent Mascia dated 2/14/00 (Attachment 5G—enclosing Mr. Mascia's two-page memo of 12/21/99 to Environmental Planner Brent Smith). Appearing were Attorney Joan Molloy of Wallingford, applicant Mr. Robert Wiedenmann, Jr., and Mr. Robert Trotter, P.E., of Conklin & Soroka.

Attorney Molloy: This is about 47 acres, comprised of two parcels. The 9-acre parcel will be subdivided into two: 34 Washington Trail and 1364 Scard Road. The smallest lot

PLANNING AND ZONING COMMISSION, TOWN OF WALLINGFORD
MINUTES OF FEBRUARY 16, 2000

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Exhibit B



316 Woodhouse Ave
Wallingford, CT 06492



Directions

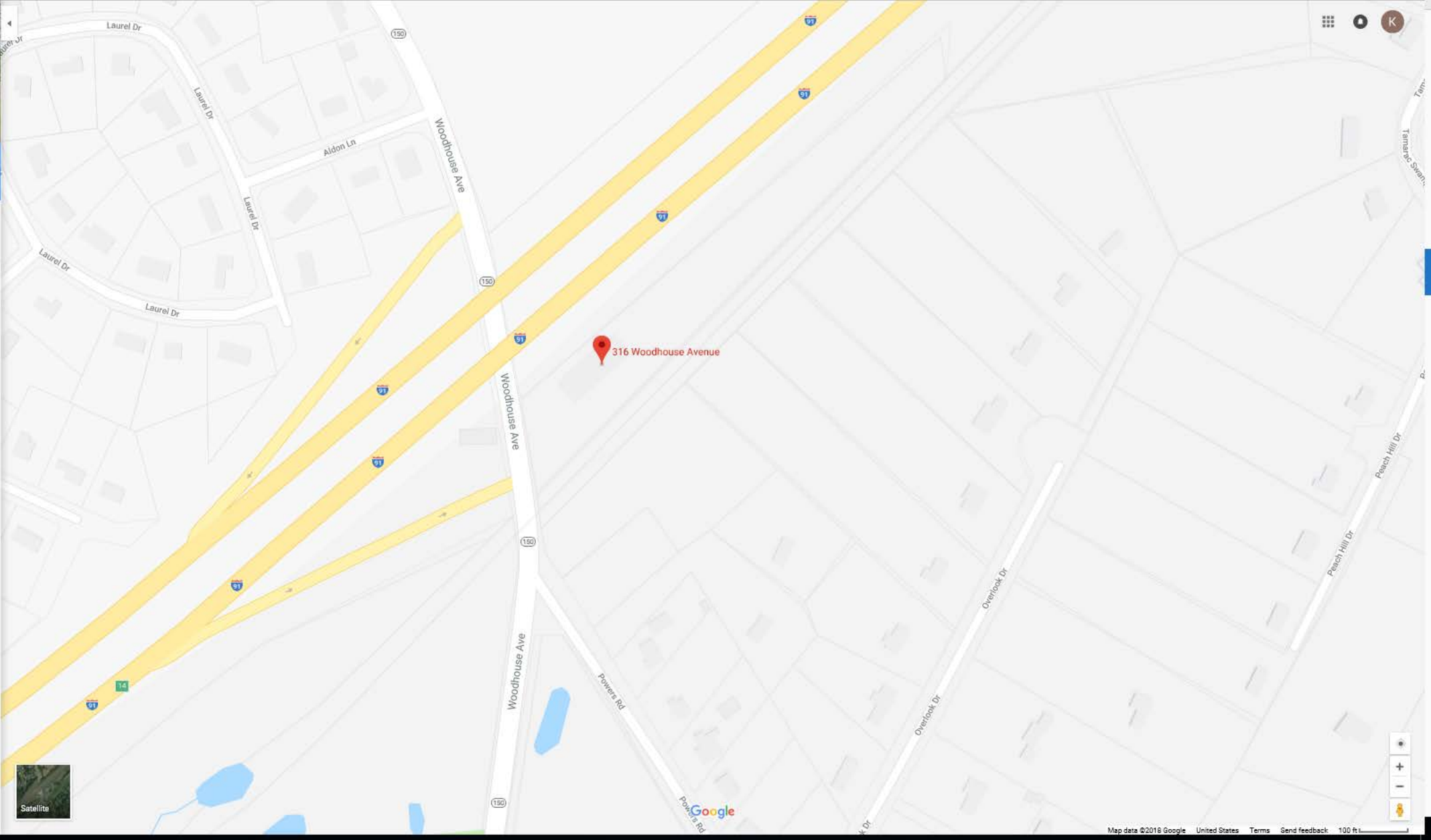
- SAVE
- NEARBY
- SEND TO YOUR PHONE
- SHARE

- Add a missing place
- Add a label



At this location

Connecticut Street Rod Association
 5.0 ★★★★★ (2)
 Association or Organization · 316 Woodhouse Ave

Satellite



Property Detail Report

For Property Located At :

316 WOODHOUSE AVE, WALLINGFORD, CT 06492-5439



RealQuest

Owner Information

Owner Name: CONNECTICUT ST ROD ASSOC
Mailing Address: PO BOX 1517, WALLINGFORD CT 06492-1117 B010
Vesting Codes: //

Location Information

Legal Description:
County: NEW HAVEN, CT APN: WALL-000190-000000-000028
Census Tract / Block: 1760.00 / 1 Alternate APN: 2040774
Township-Range-Sect:
Legal Book/Page: Map Reference: /
Legal Lot: Tract #:
Legal Block: School District:
Market Area: School District Name:
Neighbor Code: Munic/Township: WALLINGFORD

Owner Transfer Information

Recording/Sale Date: / Deed Type:
Sale Price: 1st Mtg Document #:
Document #:

Last Market Sale Information

Recording/Sale Date: 03/28/2001 / 1st Mtg Amount/Type: \$150,000 / CONV
Sale Price: \$315,000 1st Mtg Int. Rate/Type: /
Sale Type: FULL 1st Mtg Document #: /
Document #: 981-1034 2nd Mtg Amount/Type: /
Deed Type: WARRANTY DEED 2nd Mtg Int. Rate/Type: /
Transfer Document #: Price Per SqFt: \$25.78
New Construction: Multi/Split Sale:
Title Company:
Lender: THE FIRST UNION NAT'L BK
Seller Name: JR ACHIEVEMENT OF S

Prior Sale Information

Prior Rec/Sale Date: / Prior Lender:
Prior Sale Price: Prior 1st Mtg Amt/Type: /
Prior Doc Number: 596-851 Prior 1st Mtg Rate/Type: /
Prior Deed Type: DEED (REG)

Property Characteristics

Year Built / Eff: 1969 / Total Rooms/Offices
Gross Area: 12,220 Total Restrooms:
Building Area: 12,220 Roof Type: GABLE
Tot Adj Area: Roof Material: ASPHALT SHINGLE
Above Grade: Construction: FRAME
of Stories: 1 Foundation:
Other Improvements: Building Permit Exterior wall: VINYL
Basement Area: Garage Area:
Garage Capacity:
Parking Spaces:
Heat Type: FORCED AIR
Air Cond: YES
Pool:
Quality:
Condition: FAIR

Site Information

Zoning: Acres: 3.22 County Use:
Lot Area: 140,096 Lot Width/Depth: x State Use: MIXED USE-PRIM COMM & IND (034)
Land Use: COMMERCIAL (NEC) Commercial Units: 1 Water Type:
Site Influence: Sewer Type: Building Class:

Tax Information

Total Value: \$328,700 Assessed Year: 2018 Property Tax: \$9,414.00
Land Value: \$226,800 Improved %: 31% Tax Area: 310
Improvement Value: \$101,900 Tax Year: 2018 Tax Exemption:
Total Taxable Value:

Exhibit C



AT&T SITE NUMBER: CT5111
AT&T SITE NAME: WALLINGFORD-POND HILL
AT&T FA CODE: 10071340
AT&T PACE NUMBER: MRCTB046821
AT&T PROJECT: AT&T LTE 5C

BUSINESS UNIT #: 828915
SITE ADDRESS: 316 WOODHOUSE AVENUE
 WALLINGFORD, CT 06492
COUNTY: NEW HAVEN
SITE TYPE: MONOPOLE
TOWER HEIGHT: 148'-0"



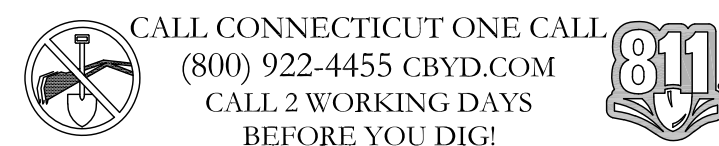
SITE INFORMATION

CROWN CASTLE USA INC.
 SITE NAME: WALLINGFORD/ I-91/ X14/ S
 SITE ADDRESS: 316 WOODHOUSE AVENUE
 WALLINGFORD, CT 06492
 COUNTY: NEW HAVEN
 MAP/PARCEL #: WALL-000190-000000-000028
 AREA OF CONSTRUCTION: EXISTING
 LATITUDE: 41° 26' 02.76"
 LONGITUDE: -72° 48' 05.26"
 LAT/LONG TYPE: NAD83
 GROUND ELEVATION: 220 FT.
 CURRENT ZONING: CA-40
 JURISDICTION: TOWN OF WALLINGFORD
 OCCUPANCY CLASSIFICATION: U
 TYPE OF CONSTRUCTION: IIB
 A.D.A. COMPLIANCE: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
 PROPERTY OWNER: CONNECTICUT STREET ROD ASSOCIATION
 PO BOX 1517
 WALLINGFORD, CT 06492
 TOWER OWNER: CCTMO LLC
 2000 CORPORATE DRIVE
 CANONSBURG, PA 15317
 CARRIER/APPLICANT: AT&T TOWER ASSET GROUP
 575 MOROSGO DRIVE
 ATLANTA, GA 30324-3300
 ELECTRIC PROVIDER: WALLINGFORD ELECTRIC
 (203) 294-2020
 TELCO PROVIDER: AT&T
 (866) 620-6900

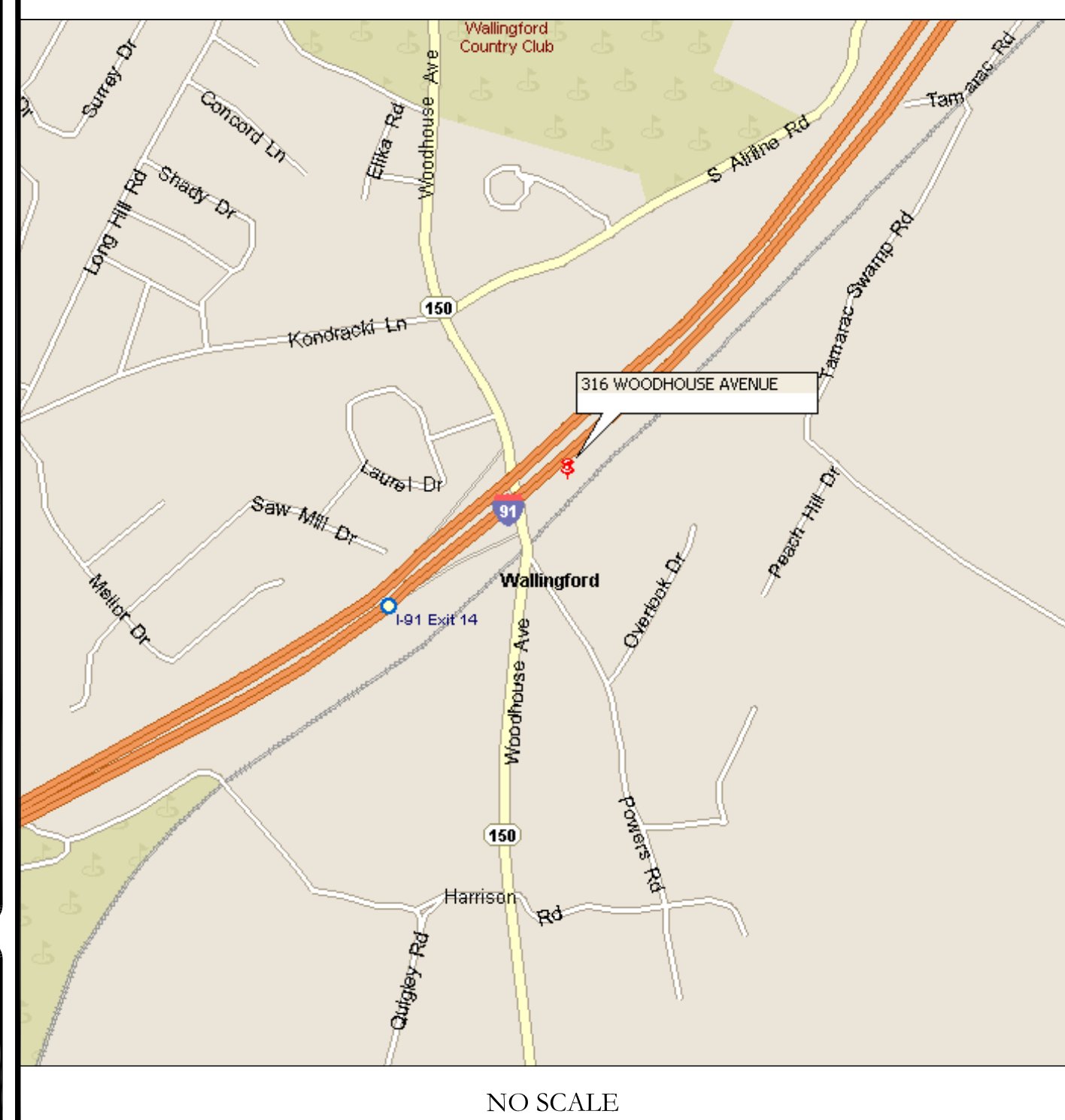
DRAWING INDEX

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 SPECS
G-1	GROUNDING SCHEMATIC
G-2	GROUNDING DETAILS
ATTACHED	PLUMBING DIAGRAM

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 11X17. 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.



LOCATION MAP



SITE PHOTO



AT&T SITE NUMBER: CT5111
 BU #: 828915
 WALLINGFORD/ I-91/ X14/ S
 316 WOODHOUSE AVENUE
 WALLINGFORD, CT 06492
 EXISTING 148'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	05/11/20	MLC	PRELIMINARY	RO
B	06/04/20	RO	PRELIMINARY	--
C	2/22/21	JTS	PRELIMINARY	RMC
0	3/31/21	JTS	CONSTRUCTION	MTJ

PROJECT TEAM

A&E FIRM: CROWN CASTLE USA INC.
 2000 CORPORATE DRIVE
 CANONSBURG, PA 15317
 CROWNNAE.APPROVAL@CROWNCastle.COM
 CROWN CASTLE USA INC. DISTRICT CONTACTS:
 3 CORPORATE PARK DRIVE, SUITE 101
 CLIFTON PARK, NY 12065
 VERONICA DELIA - PROJECT MANAGER
 (215) 292-2087
 JASON D'AMICO - CONSTRUCTION MANAGER
 (860) 209-0104

PROJECT DESCRIPTION

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

TOWER SCOPE OF WORK:

- REMOVE (3) POWERWAVE - 7770 ANTENNAS
- REMOVE (12) KATHREIN - 860 10025 DIPLEXERS
- RELOCATE (3) KATHREIN - 782-10254 SMART BIAS TEEs
- INSTALL MOUNT MODIFICATIONS PER MOUNT MODIFICATION ANALYSIS BY TOWER ENGINEERING PROFESSIONALS DATED 2/24/21.
- INSTALL (3) CCI - HPA-65R-BU6AA ANTENNAS
- INSTALL (3) CCI - TMABPD7823VG12A TMAAs

GROUND SCOPE OF WORK:

- REMOVE (1) 3206
- INSTALL (1) 6630 + IDLe CABLE
- INSTALL (3) ERICSSON - 4449 B5/B12 RRHS
- INSTALL (3) ERICSSON - 4426 B66 RRHS
- INSTALL (6) KAEIUS - DBC0115F1V91-2 DIPLEXERS
- INSTALL (1) H-FRAME

INSTALLER NOTE:

NO PROPOSED LOADING TO BE ADDED UNTIL MOUNT MODIFICATIONS ARE INSTALLED PER MOUNT MODIFICATION ANALYSIS BY TOWER ENGINEERING PROFESSIONALS DATED MAY 26, 2020

APPLICABLE CODES/REFERENCE DOCUMENTS

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

CODE TYPE	CODE
BUILDING	2018 CT STATE BUILDING CODE/2015 IBC W/ CT AMENDMENTS
MECHANICAL	2018 CT STATE BUILDING CODE/2015 IMC W/ CT AMENDMENTS
ELECTRICAL	2018 CT STATE BUILDING CODE/2017 NEC W/ CT AMENDMENTS

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS: CROWN CASTLE
 DATED: 8/20/20
 MOUNT MODIFICATION ANALYSIS: TOWER ENGINEERING PROFESSIONALS
 DATED: 2/24/21
 RFDS REVISION: 2
 DATED: 2/11/21
 ORDER ID: 517093
 REVISION: 1

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



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.

SHEET NUMBER: T-1
REVISION: 0



575 MOROSGO DRIVE
ATLANTA, GA 30324-3300



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

AT&T SITE NUMBER: **CT5111**

BU #: **828915**
WALLINGFORD/ I-91/ X14/ S

316 WOODHOUSE AVENUE
WALLINGFORD, CT 06492

EXISTING 148'-0" MONOPOLE

ISSUED FOR:

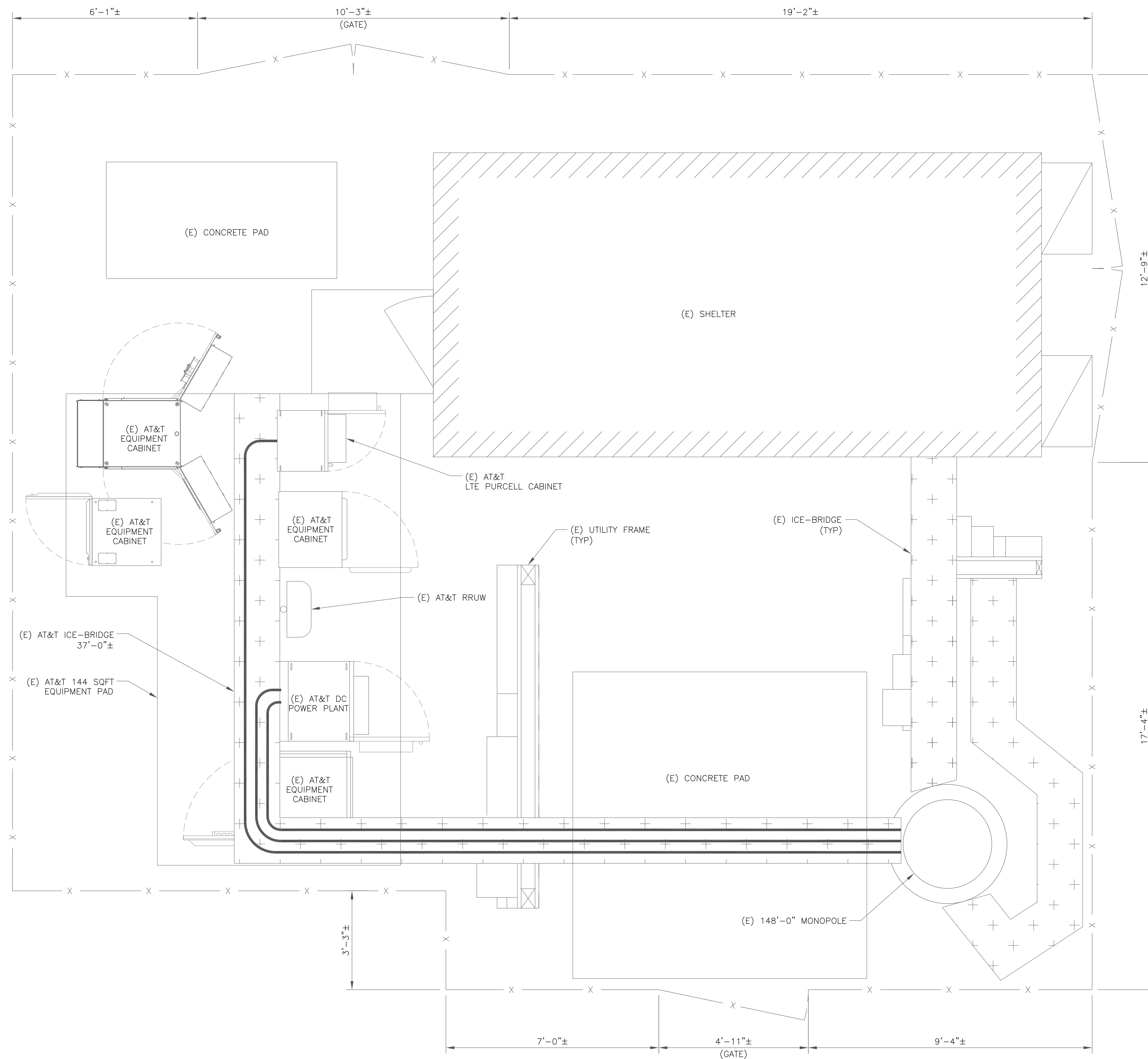
REV	DATE	DRWN	DESCRIPTION	DES./QA
A	05/11/20	MLC	PRELIMINARY	RO
B	06/04/20	RO	PRELIMINARY	--
C	2/22/21	JTS	PRELIMINARY	RMC
0	3/31/21	JTS	CONSTRUCTION	MTJ



B&T ENGINEERING, INC.
PEC.0001564
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SHEET NUMBER: **C-1.1** REVISION: **0**



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





575 MOROSGO DRIVE
ATLANTA, GA 30324-3300



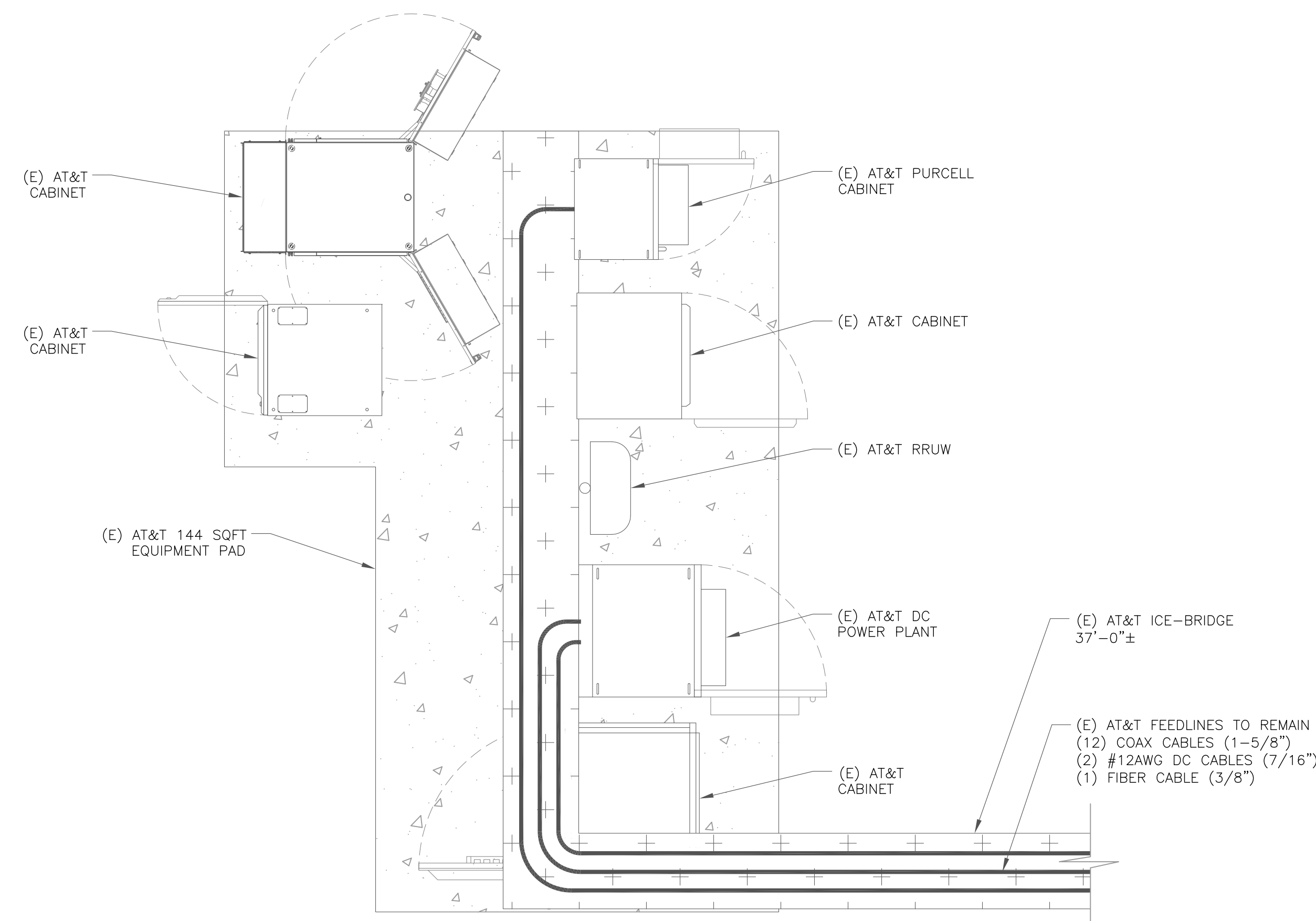
3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

AT&T SITE NUMBER: CT5111

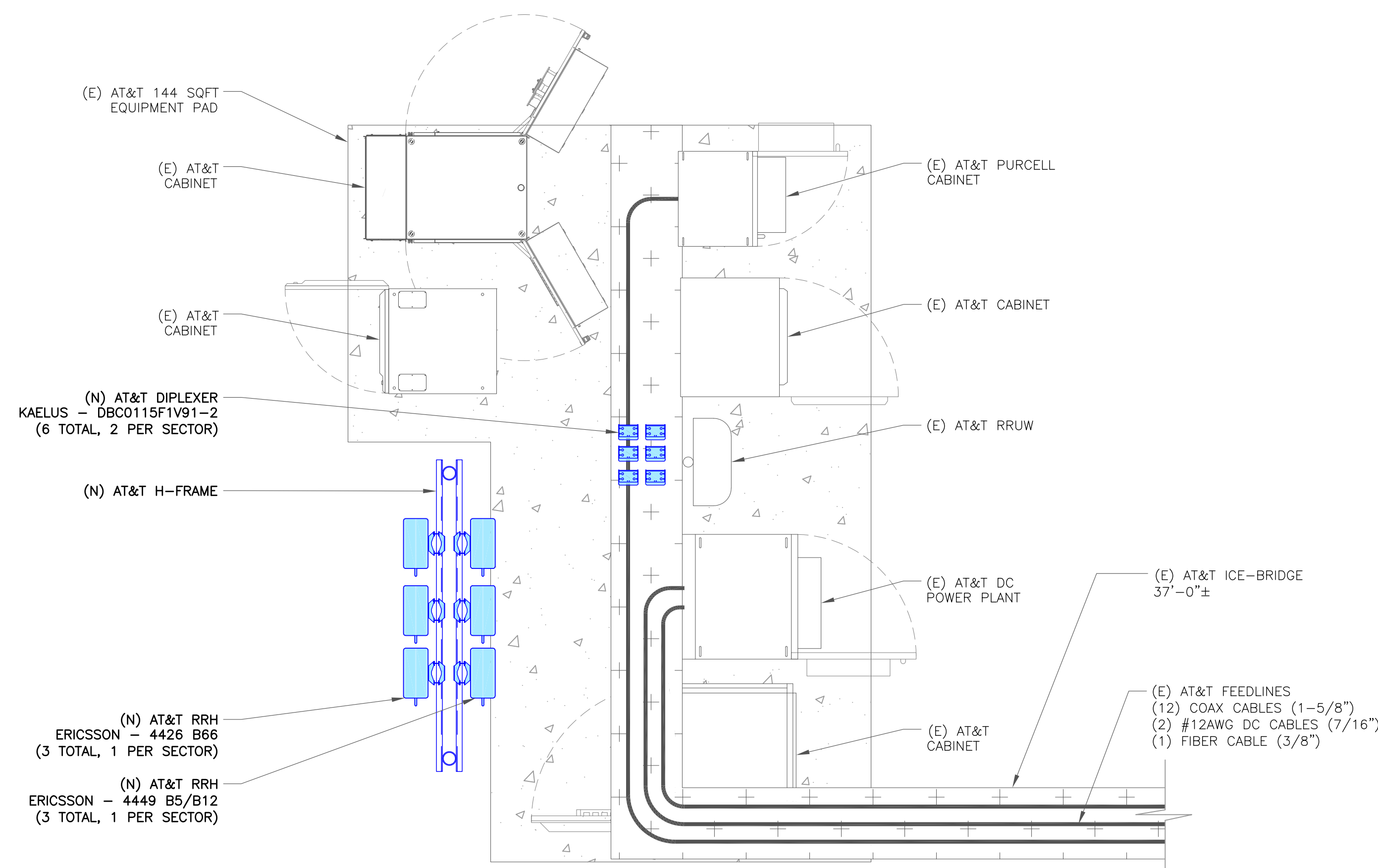
BU #: 828915
WALLINGFORD/ I-91/ X14/ S

316 WOODHOUSE AVENUE
WALLINGFORD, CT 06492

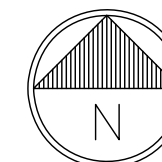
EXISTING 148'-0" MONOPOLE



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



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



- GROUND SCOPE OF WORK:
- REMOVE (1) UMTS 3206
 - INSTALL (1) 6630 5G
 - INSTALL (3) ERICSSON - 4449 B5/B12 RRHS
 - INSTALL (3) ERICSSON - 4426 B66 RRHS
 - INSTALL (6) KAELUS - DBC0115F1V91-2 DIPLEXERS
 - INSTALL (1) H-FRAME

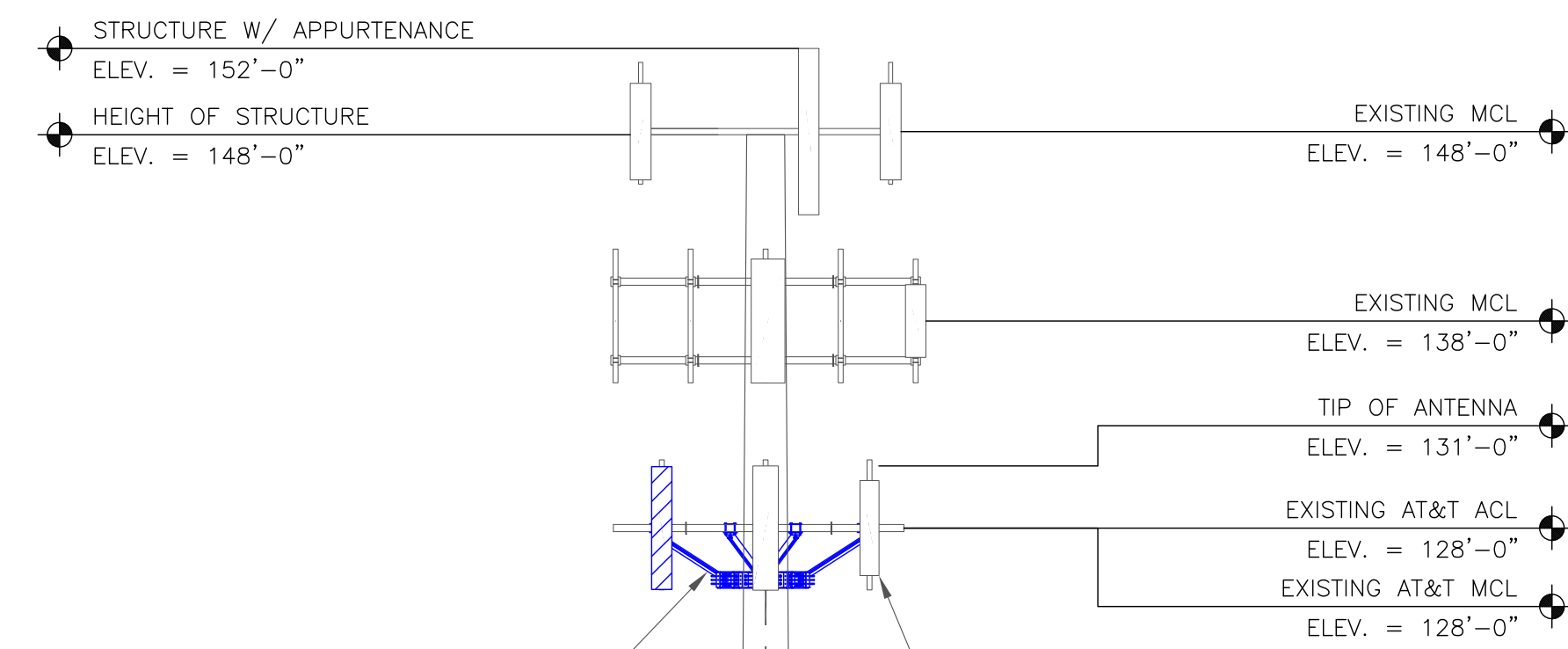
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	05/11/20	MLC	PRELIMINARY	RO
B	06/04/20	RO	PRELIMINARY	--
C	2/22/21	JTS	PRELIMINARY	RMC
0	3/31/21	JTS	CONSTRUCTION	MTJ



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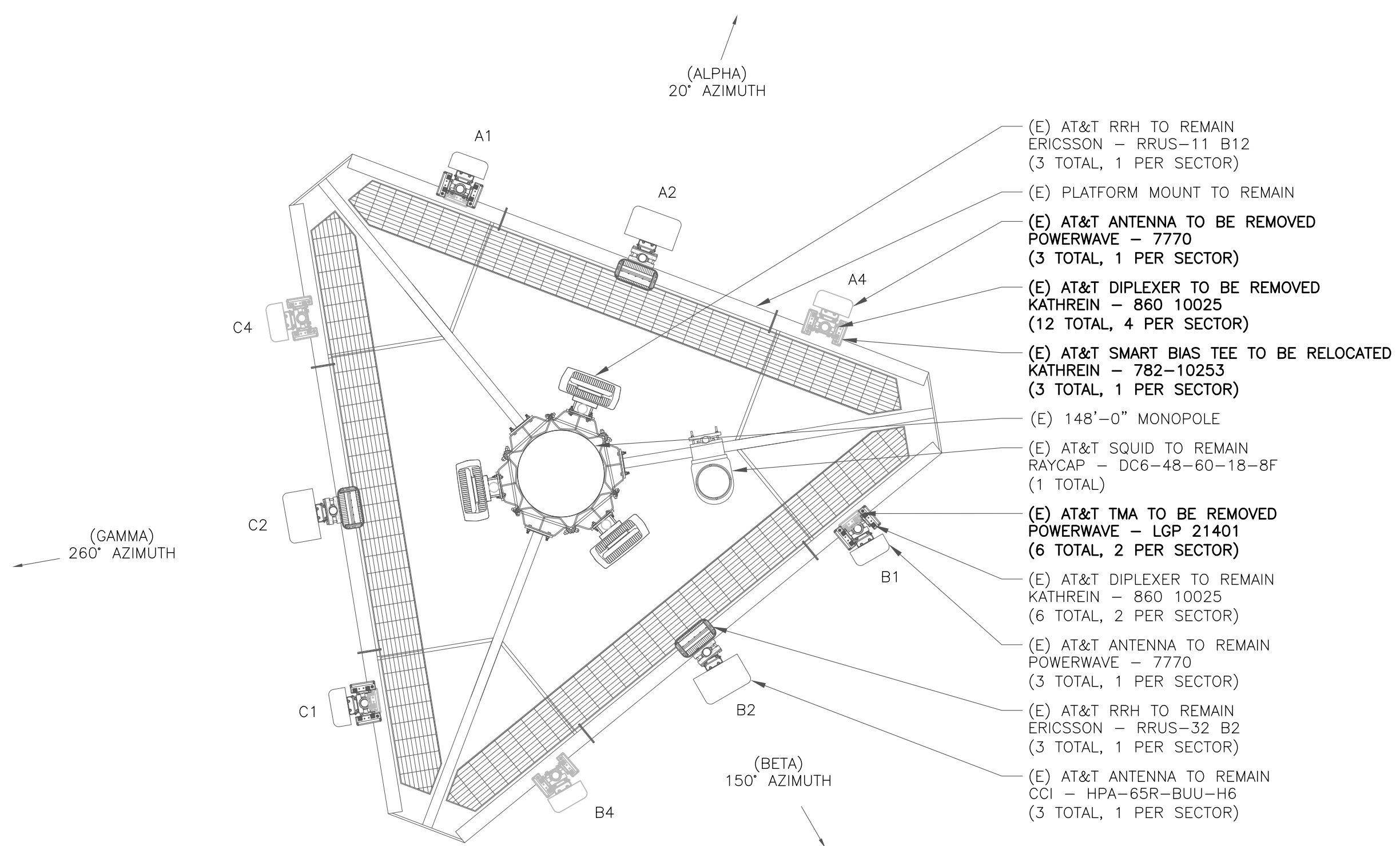
SHEET NUMBER: C-1.2
REVISION: 0



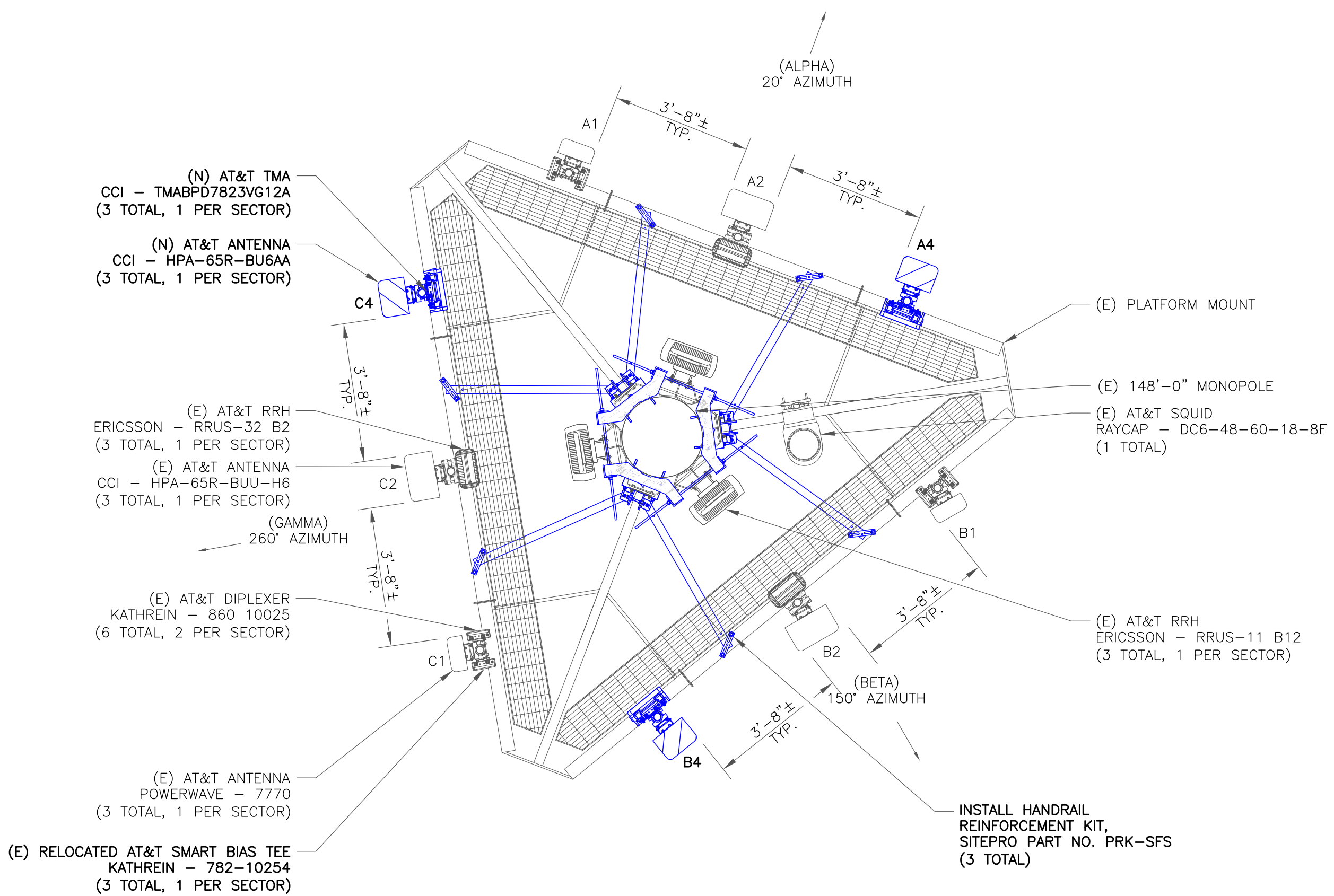
INSTALL HANDRAIL REINFORCEMENT KIT, SITEPRO PART NO. PRK-SFS (3 TOTAL)

- (N) AT&T EQUIPMENT
- (3) ANTENNAS
- (6) RRHS
- (3) TMAS
- (6) DIPLEXERS

1 FINAL ELEVATION
SCALE: NOT TO SCALE



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



3 FINAL ANTENNA PLAN
SCALE: 3/8"=1'-0" (FULL SIZE)
3/16"=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.

- 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.

- 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.

575 MOROSGO DRIVE
ATLANTA, GA 30324-3300

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

AT&T SITE NUMBER: CT5111
BU #: 828915
WALLINGFORD/ I-91/ X14/ S
316 WOODHOUSE AVENUE
WALLINGFORD, CT 06492
EXISTING 148'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
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B	06/04/20	RO	PRELIMINARY	--
C	2/22/21	JTS	PRELIMINARY	RMC
0	3/31/21	JTS	CONSTRUCTION	MTJ

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SHEET NUMBER: C-2	REVISION: 0
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AT&T SITE NUMBER: **CT5111**

BU #: **828915**
WALLINGFORD/ I-91/ X14/ S

316 WOODHOUSE AVENUE
 WALLINGFORD, CT 06492
 EXISTING 148'-0" MONOPOLE

ISSUED FOR:

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B	06/04/20	RO	PRELIMINARY	--
C	2/22/21	JTS	PRELIMINARY	RMC
0	3/31/21	JTS	CONSTRUCTION	MTJ



B&T ENGINEERING, INC.
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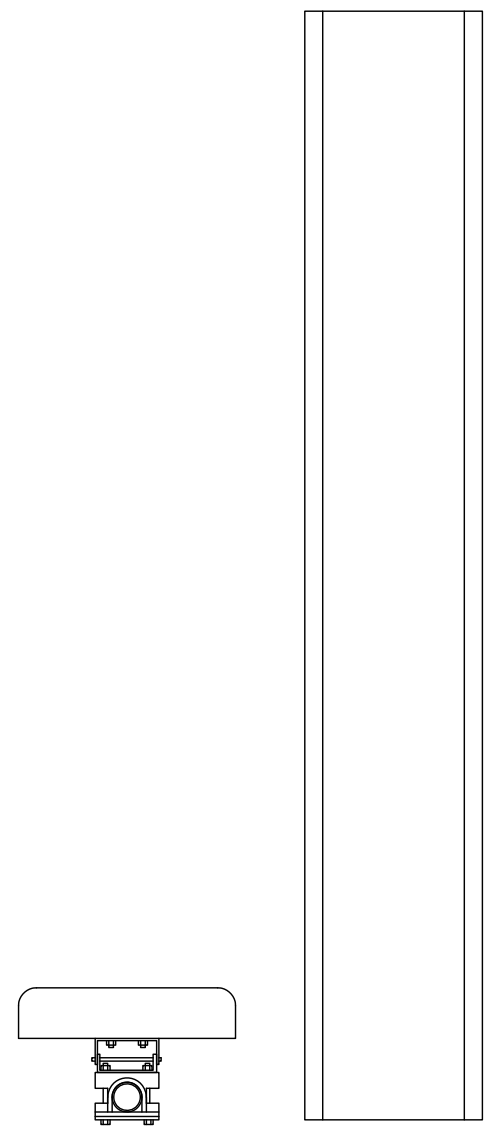
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SHEET NUMBER: **C-3** REVISION: **0**

FINAL ANTENNA AND FEEDLINE SCHEDULE

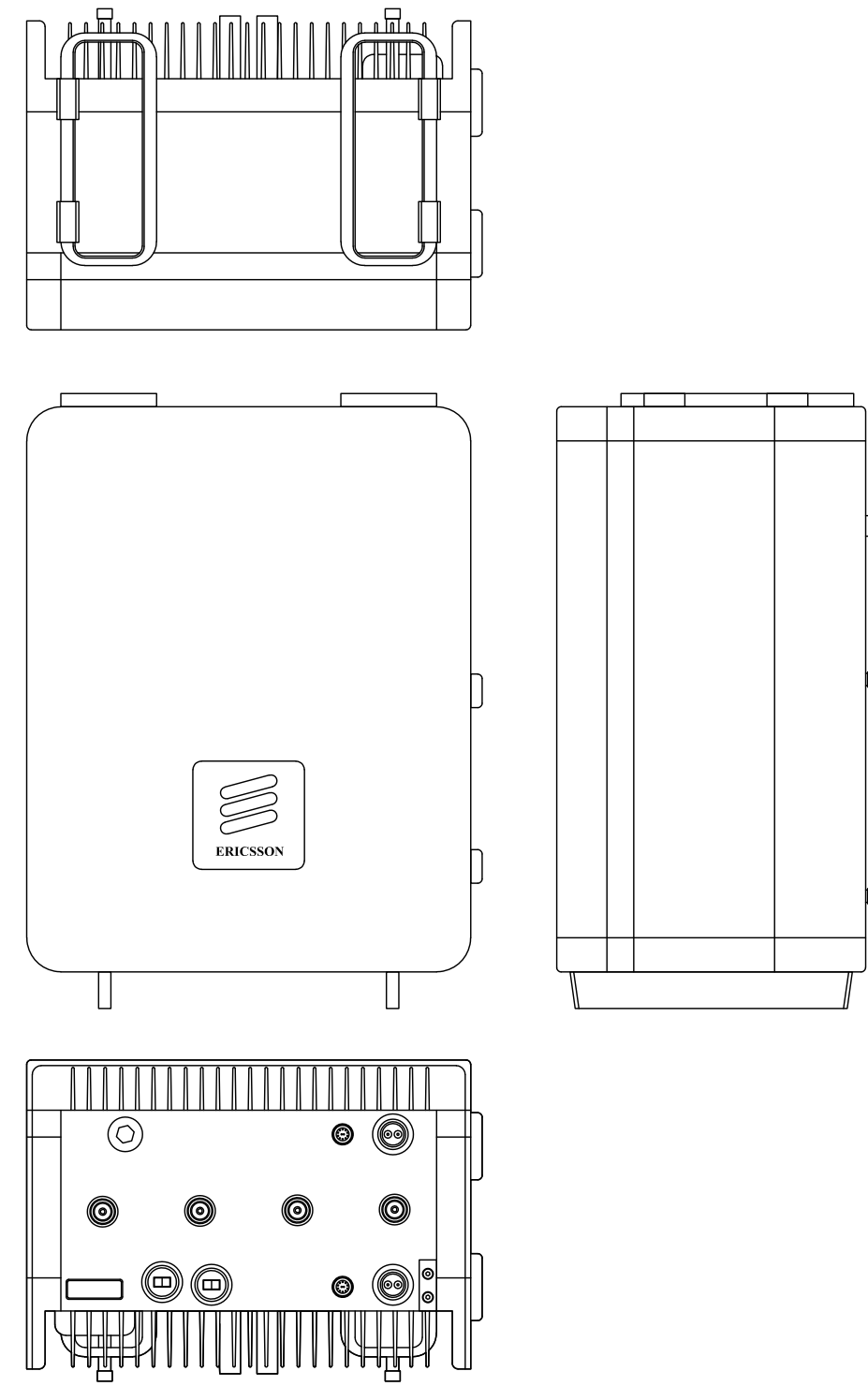
POS.	TECH	STATUS	AZIMUTH	ANTENNA TYPE	ANTENNA RAD CENTER	MECHANICAL DOWNTILT	ELECTRICAL DOWNTILT	MAIN COAX SIZE	MAIN COAX LENGTH	COAX QTY	TMA QTY AND MODEL	SURGE PROTECTION	DC/FIBER CABLES	RRHs QTY & MODEL	LOCATION	DIPLEXER ON TOWER	DIPLEXER ON GROUND	RET CABLE
ALPHA SECTOR																		
A1	UMTS	EXISTING	20°	POWERWAVE 7770	128'-0"	0°	4°	1 5/8"	150'-0"	2	-	-	-	-	-	Y	N	Y
A2	LTE	EXISTING	20°	CCI HPA-65R-BUU-H6	128'-0"	0°	10°/6°/6°	-	-	-	-	-	-	(1) RRUS-11 B12 (1) RRUS-32 B2	TOWER	-	-	Y
A3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A4	LTE	NEW	20°	CCI HPA-65R-BU6AA	128'-0"	0°	6°/6°/6°	1 5/8"	150'-0"	2	(1) TMABPD7823VG12A	-	-	(1) 4449 B5/B12 (1) 4426 B26	TOWER	Y	N	Y
BETA SECTOR																		
B1	UMTS	EXISTING	20°	POWERWAVE 7770	128'-0"	0°	2°	1 5/8"	150'-0"	2	-	-	-	-	-	Y	N	Y
B2	LTE	EXISTING	20°	CCI HPA-65R-BUU-H6	128'-0"	0°	3°/2°/2°	-	-	-	-	DC6-48-60-18-8F	(1) 3/8" FIBER (2) 7/16" DC LINES	(1) RRUS-11 B12 (1) RRUS-32 B2	TOWER	-	-	Y
B3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B4	LTE	NEW	20°	CCI HPA-65R-BU6AA	128'-0"	0°	2°/2°/2°	1 5/8"	150'-0"	2	(1) TMABPD7823VG12A	-	-	(1) 4449 B5/B12 (1) 4426 B26	TOWER	Y	N	Y
GAMMA SECTOR																		
C1	UMTS	EXISTING	20°	POWERWAVE 7770	128'-0"	2°	4°	1 5/8"	150'-0"	2	-	-	-	-	-	Y	N	Y
C2	LTE	EXISTING	20°	CCI HPA-65R-BUU-H6	128'-0"	0°	10°/6°/6°	-	-	-	-	-	-	(1) RRUS-11 B12 (1) RRUS-32 B2	TOWER	-	-	Y
C3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C4	LTE	NEW	20°	CCI HPA-65R-BU6AA	128'-0"	0°	6°/6°/6°	1 5/8"	150'-0"	2	(1) TMABPD7823VG12A	-	-	(1) 4449 B5/B12 (1) 4426 B26	TOWER	Y	N	Y

NOTE: BOLD DENOTES NEW EQUIPMENT



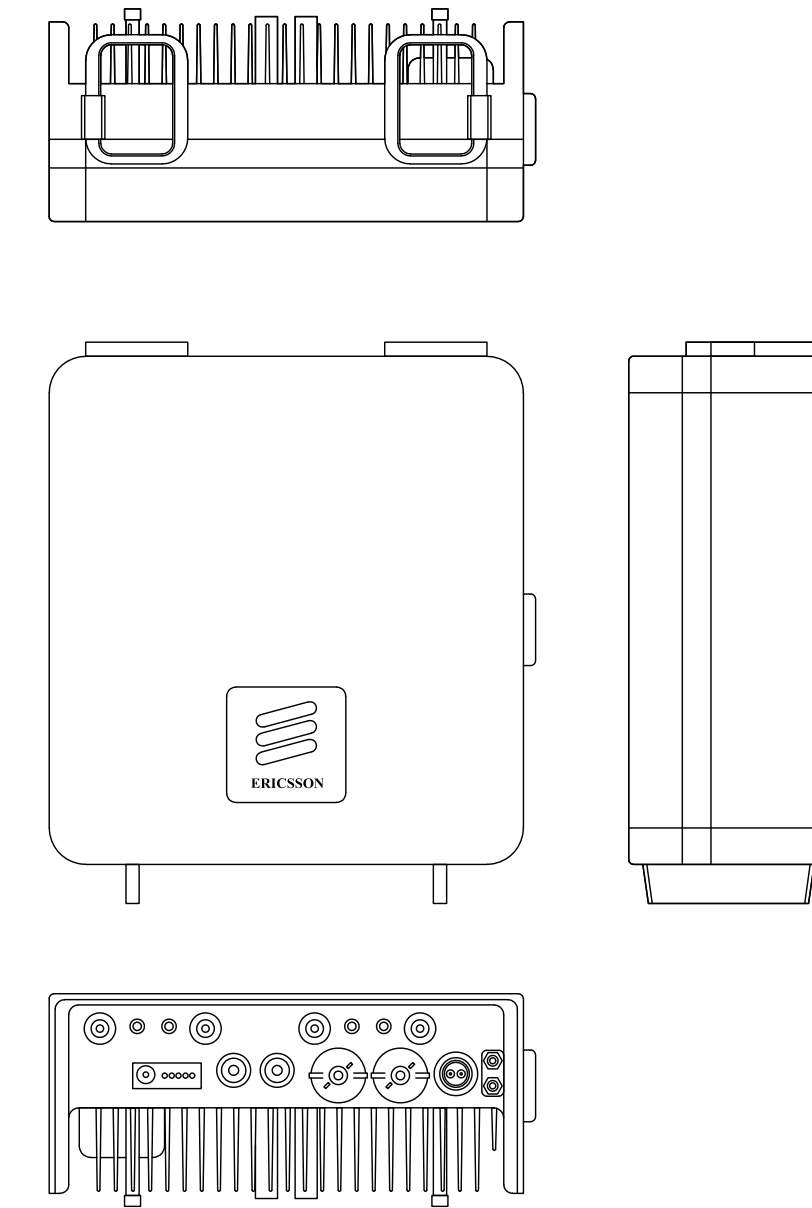
CCI ANTENNAS - HPA-65R-BU6AA
 WEIGHT (WITHOUT MOUNTING HARDWARE): 54.5 LBS
 SIZE (HxWxD): 71.20x11.70x8.40 IN.
 MOUNTING HARDWARE P/N: MBK-01
 RATED WIND VELOCITY: 150.0 MPH

1 CCI - HPA-65R-BU6AA
 SCALE: NOT TO SCALE



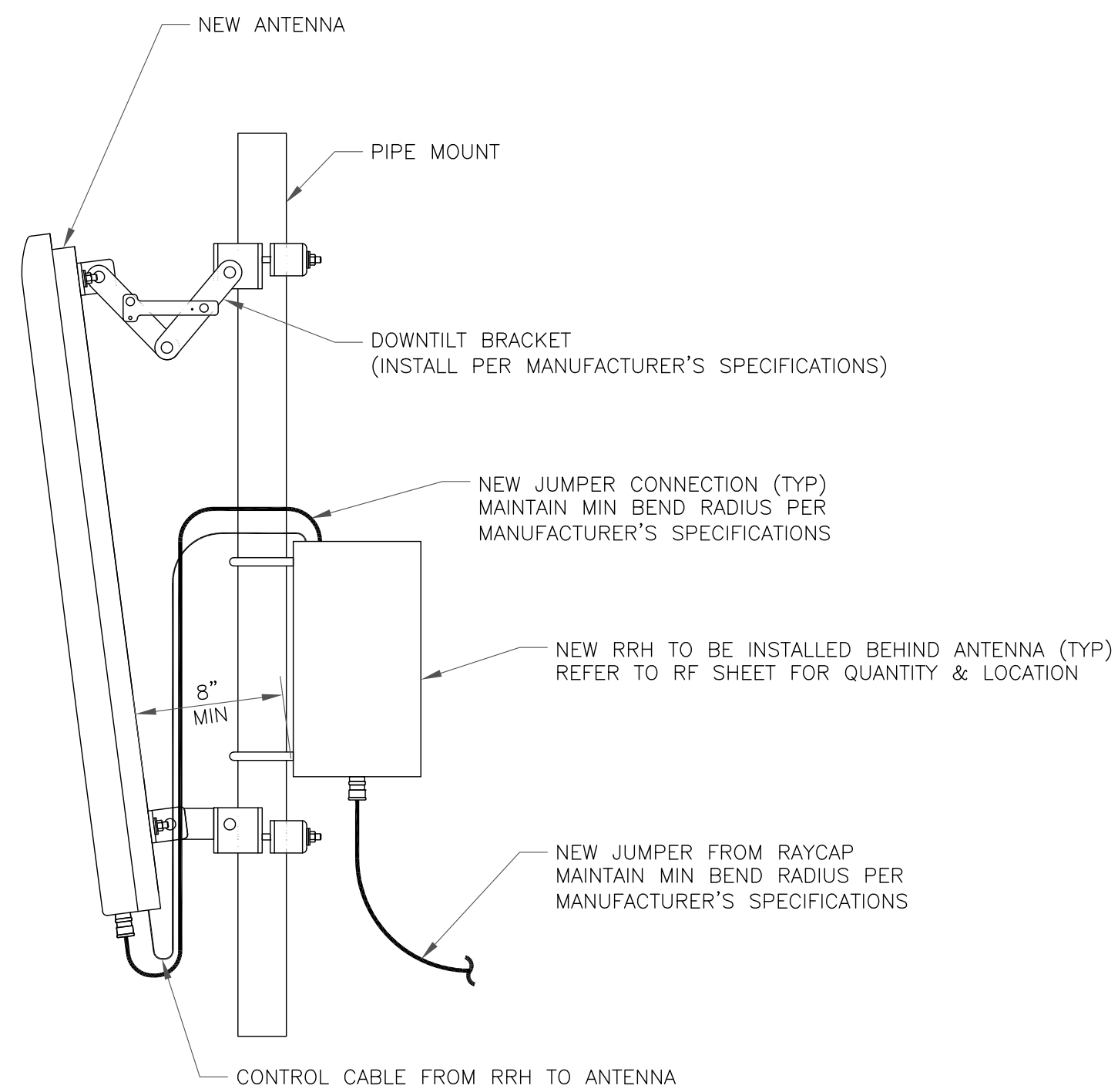
ERICSSON - RADIO 4449 B5/B12
 WEIGHT: 70.0 LBS
 SIZE (HxWxD): 18.0x13.2x9.4 IN.

2 ERICSSON - RADIO 4449 B5/B12
 SCALE: NOT TO SCALE

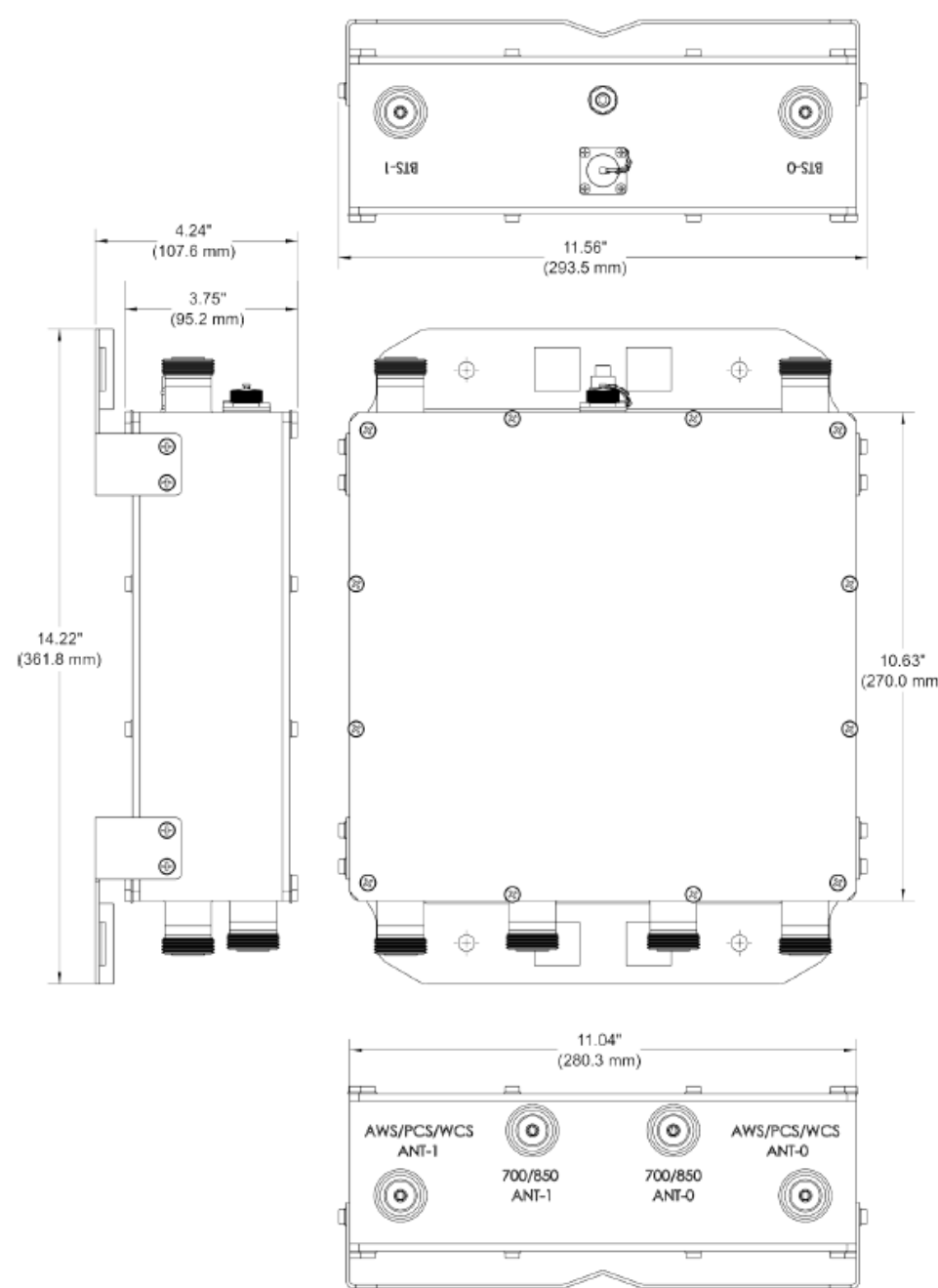


ERICSSON - RADIO 4426 B66
 WEIGHT: 60.0 LBS
 SIZE (HxWxD): 14.9x13.2x5.8 IN.

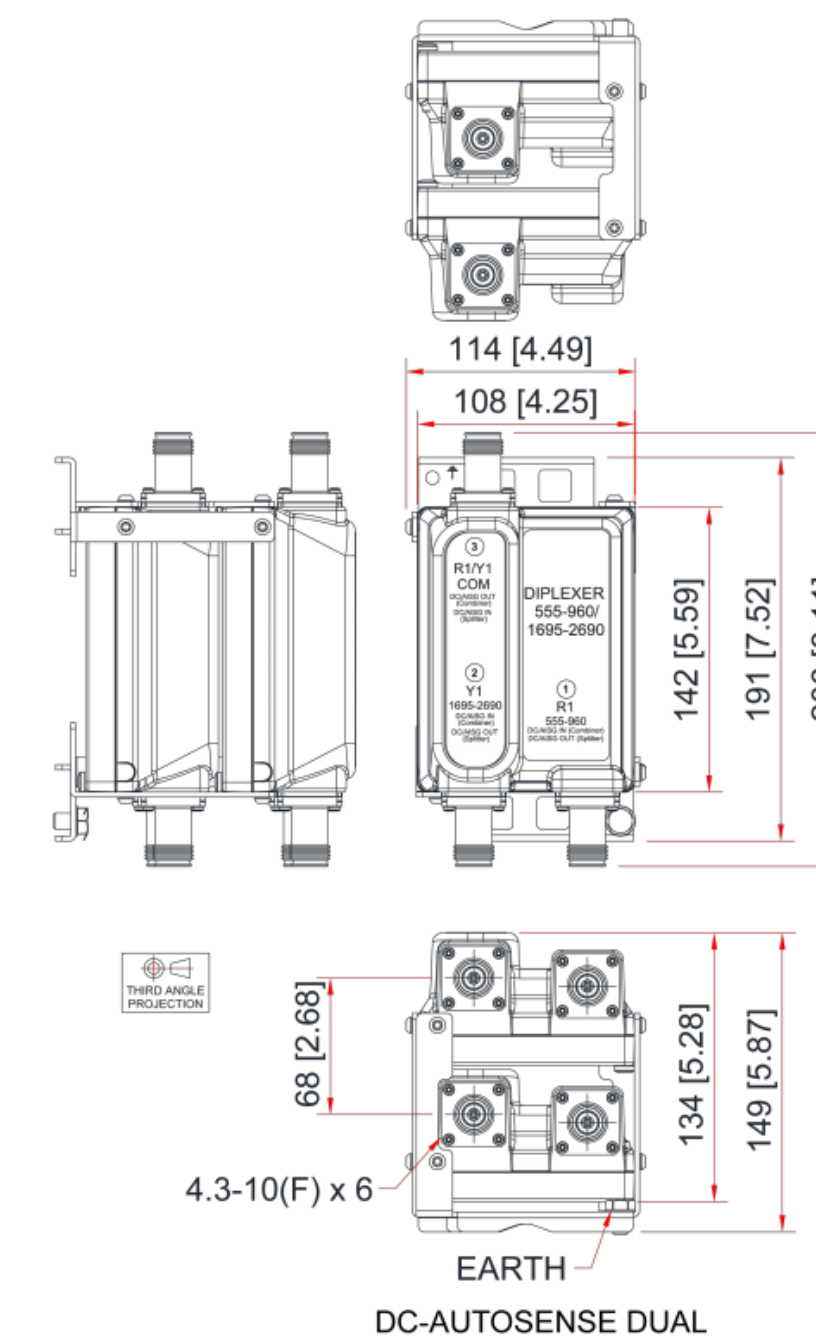
3 ERICSSON - RADIO 4426 B66
 SCALE: NOT TO SCALE



4 GENERIC ANTENNA MOUNTING ELEVATION
 SCALE: NOT TO SCALE



5 CCI - TMABPD7823VG12A
 SCALE: NOT TO SCALE



6 KAEUS - DBC0115F1V91-2
 SCALE: NOT TO SCALE



AT&T SITE NUMBER: CT5111

BU #: 828915
 WALLINGFORD/ I-91/ X14/ S

316 WOODHOUSE AVENUE
 WALLINGFORD, CT 06492

EXISTING 148'-0" MONOPOLE

ISSUED FOR:

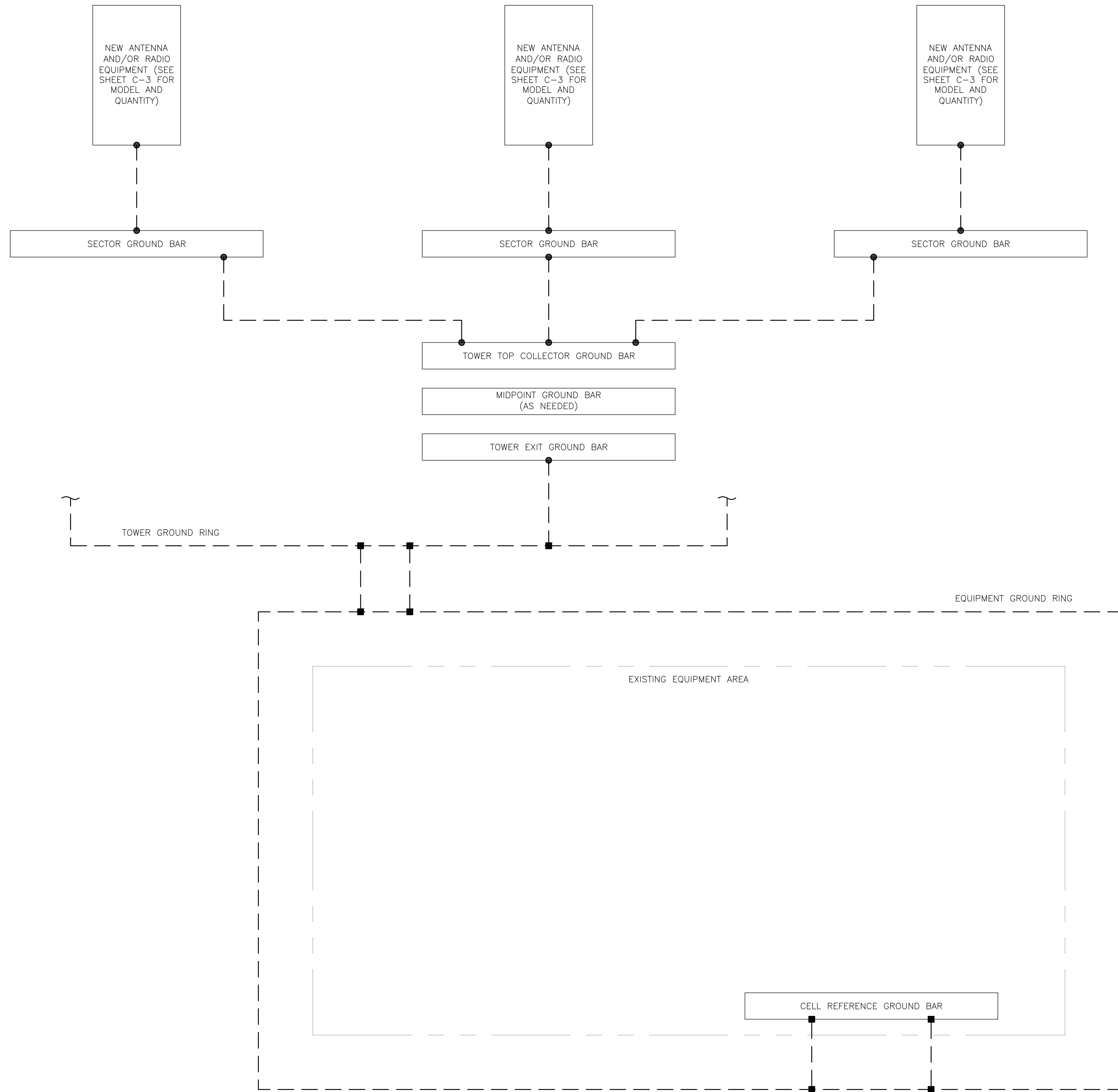
REV	DATE	DRWN	DESCRIPTION	DES./QA
A	05/11/20	MLC	PRELIMINARY	RO
B	06/04/20	RO	PRELIMINARY	--
C	2/22/21	JTS	PRELIMINARY	RMC
0	3/31/21	JTS	CONSTRUCTION	MTJ



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SHEET NUMBER: **C-4** REVISION: **0**



GROUNDING PLAN LEGEND:

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

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

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

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

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



575 MOROSGO DRIVE
ATLANTA, GA 30324-3300



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

AT&T SITE NUMBER: **CT5111**

BU #: **828915**


WALLINGFORD/ I-91/ X14/ S

316 WOODHOUSE AVENUE
WALLINGFORD, CT 06492

EXISTING 148'-0" MONOPOLE

ISSUED FOR:

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0	3/31/21	JTS	CONSTRUCTION	MTJ

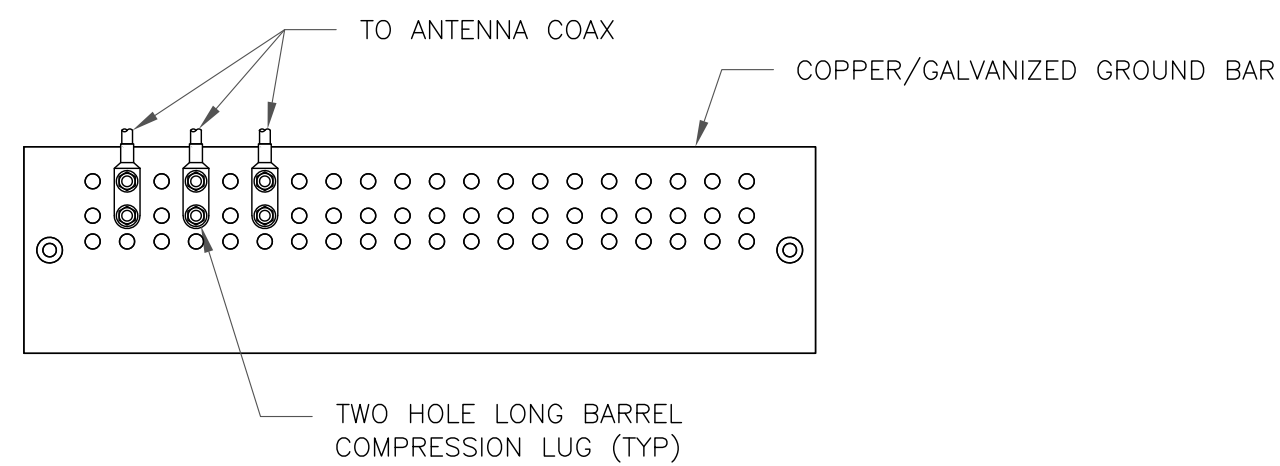


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1 GROUNDING SCHEMATIC
SCALE: NOT TO SCALE

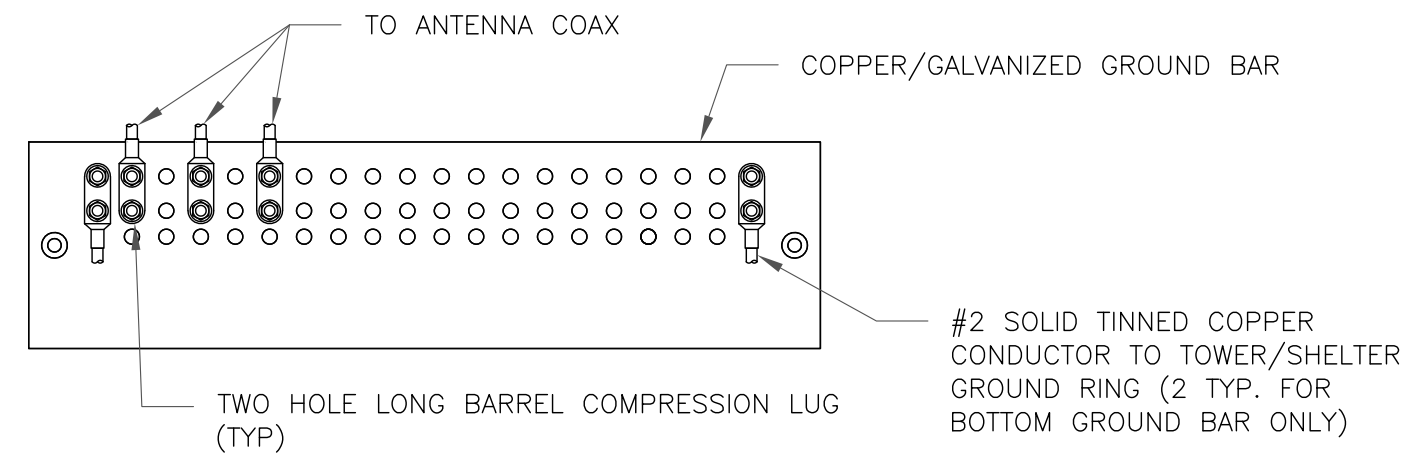
SHEET NUMBER: **G-1** REVISION: **0**



NOTES:

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

1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE

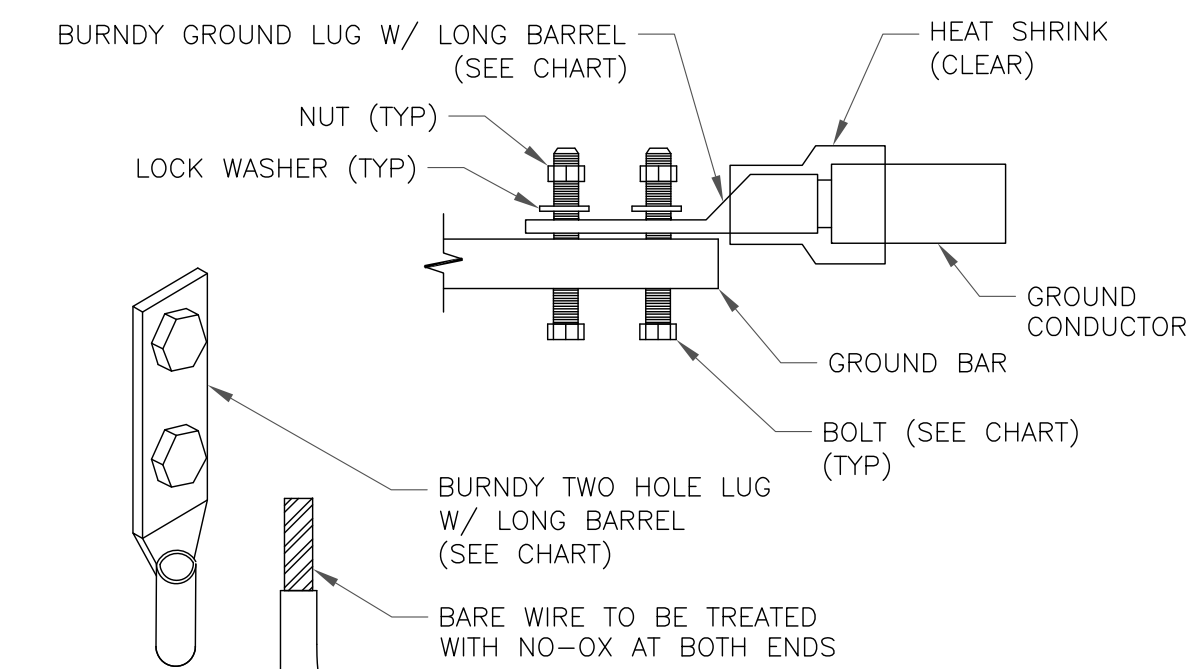


NOTES:

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

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

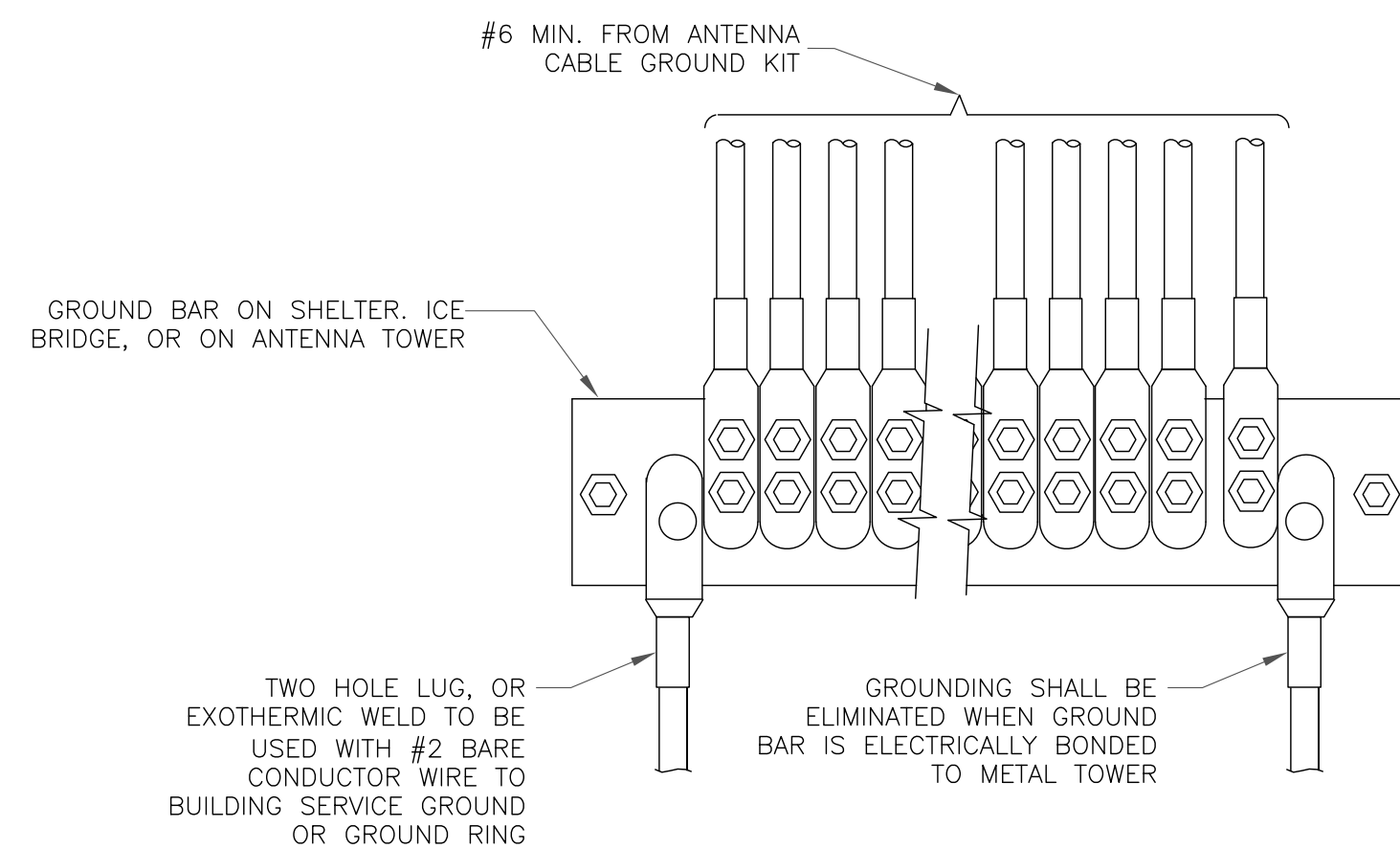
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 SOLID TINNED	YA3C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 STRANDED	YA2C-2TC38	3/8" - 16 NC SS 2 BOLT
#2/0 STRANDED	YA26-2TC38	3/8" - 16 NC SS 2 BOLT
#4/0 STRANDED	YA28-2N	1/2" - 16 NC SS 2 BOLT



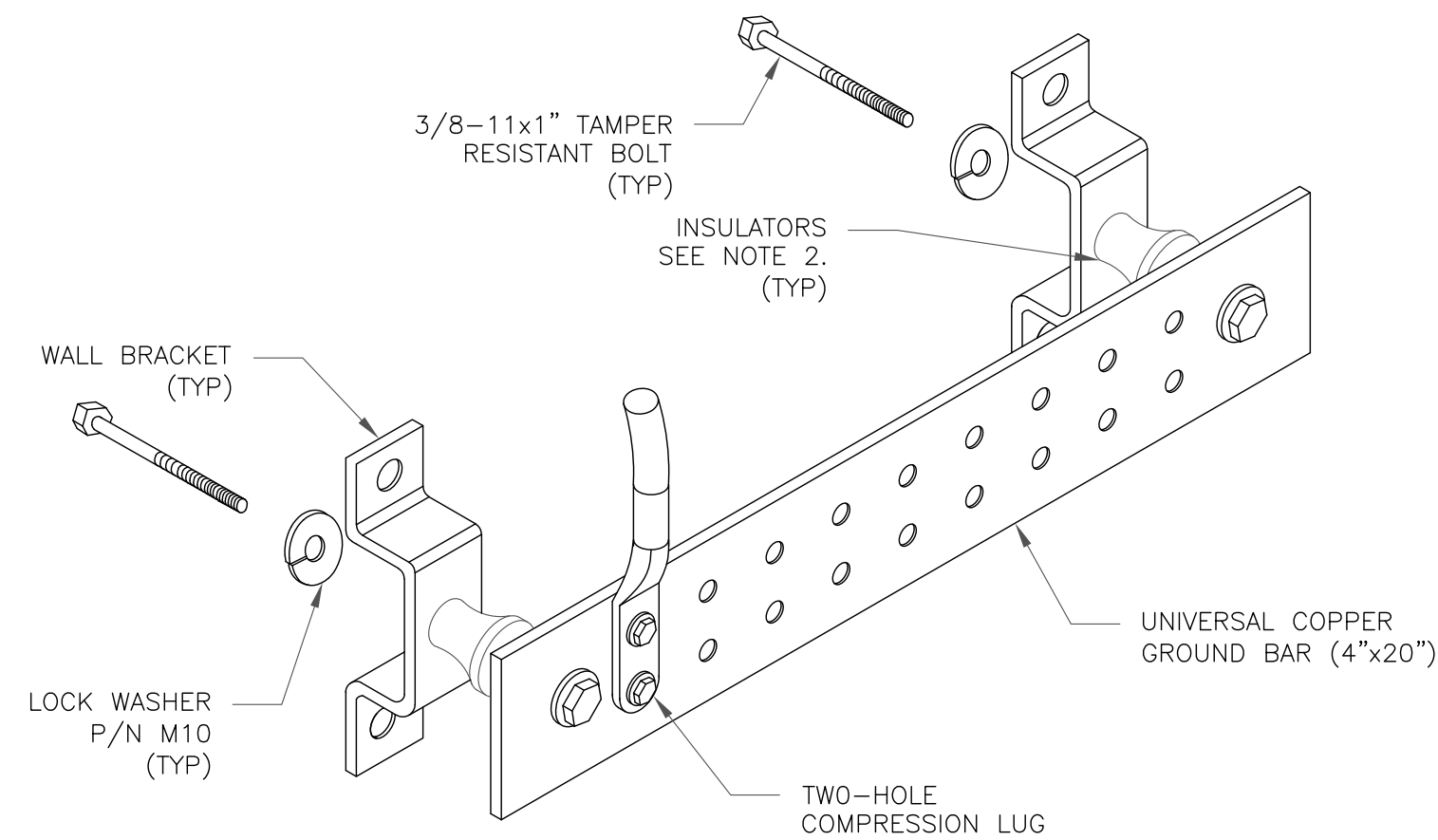
NOTE:

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

3 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



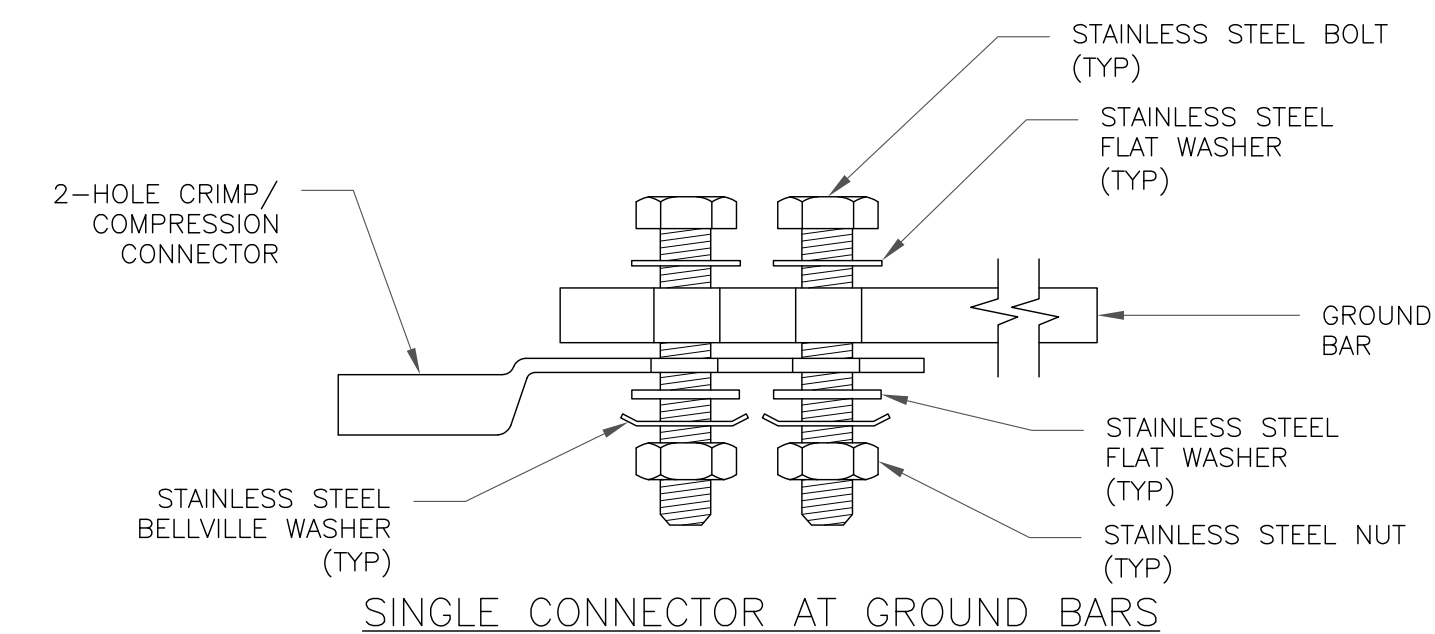
4 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



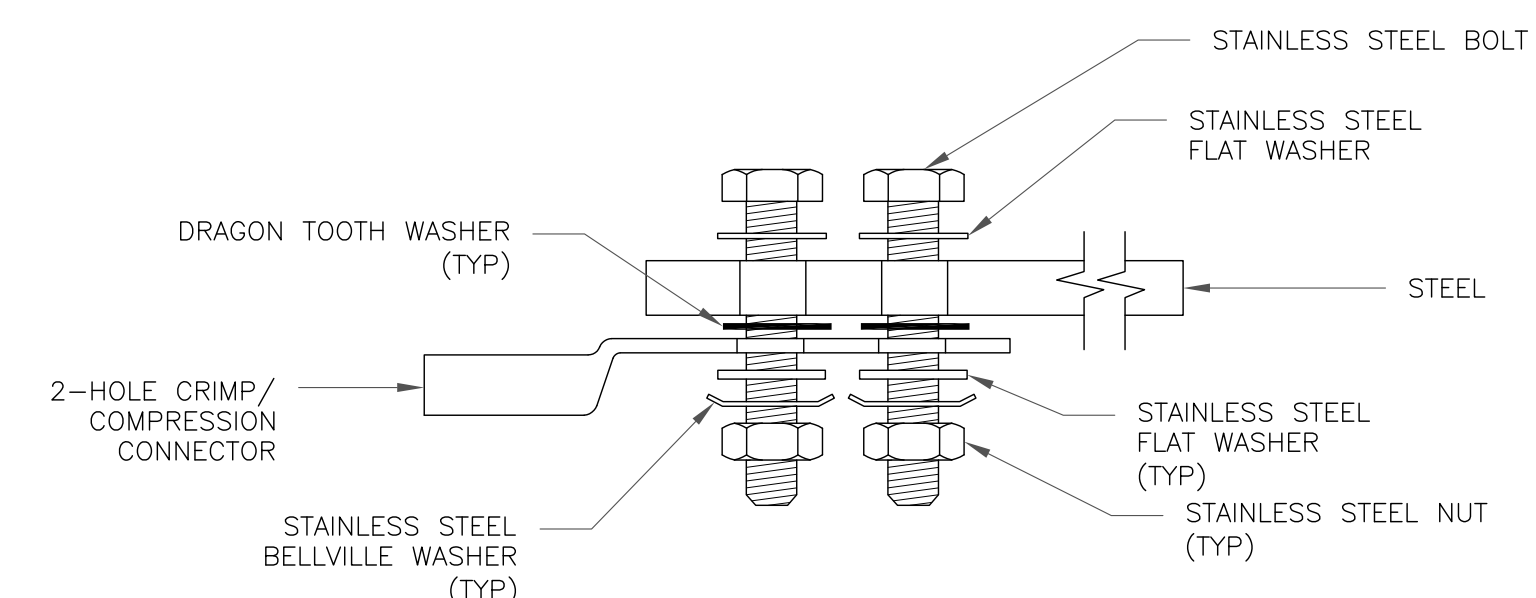
NOTES:

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

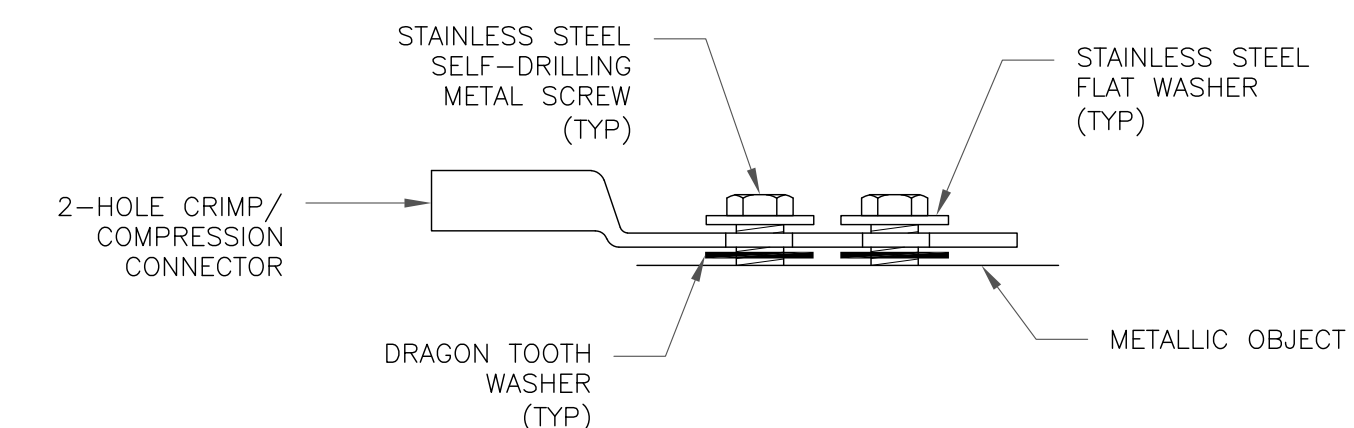
5 GROUND BAR DETAIL
SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS

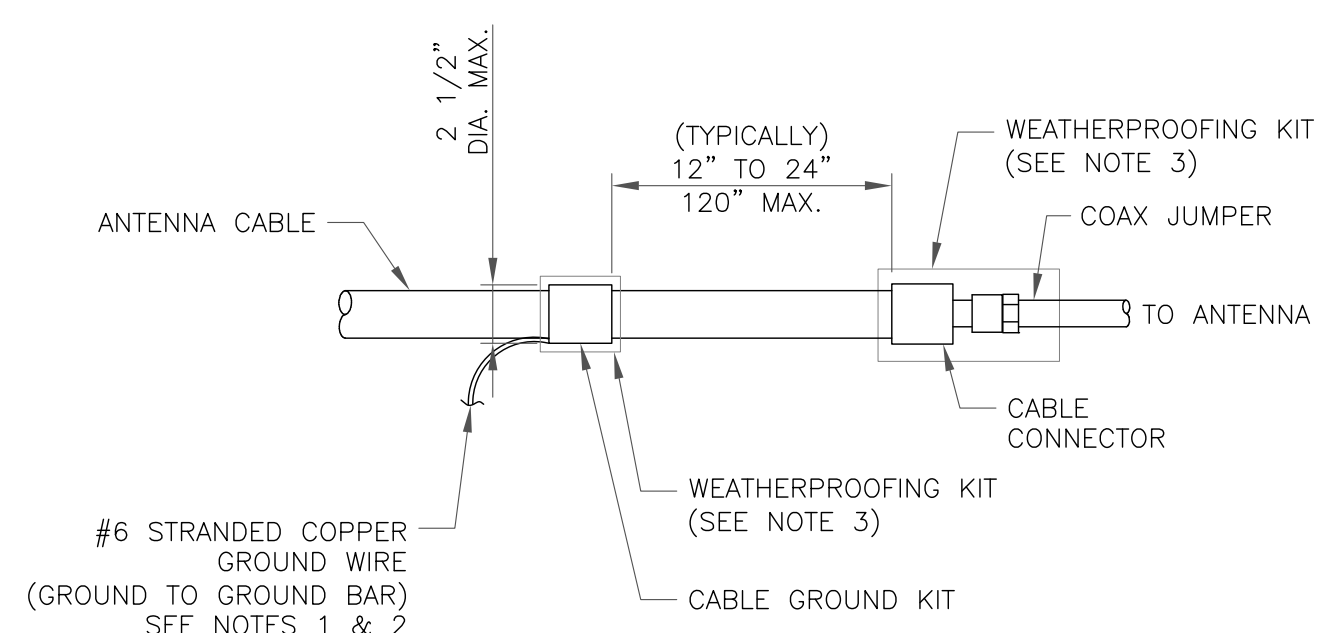


SINGLE CONNECTOR AT STEEL OBJECTS



SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

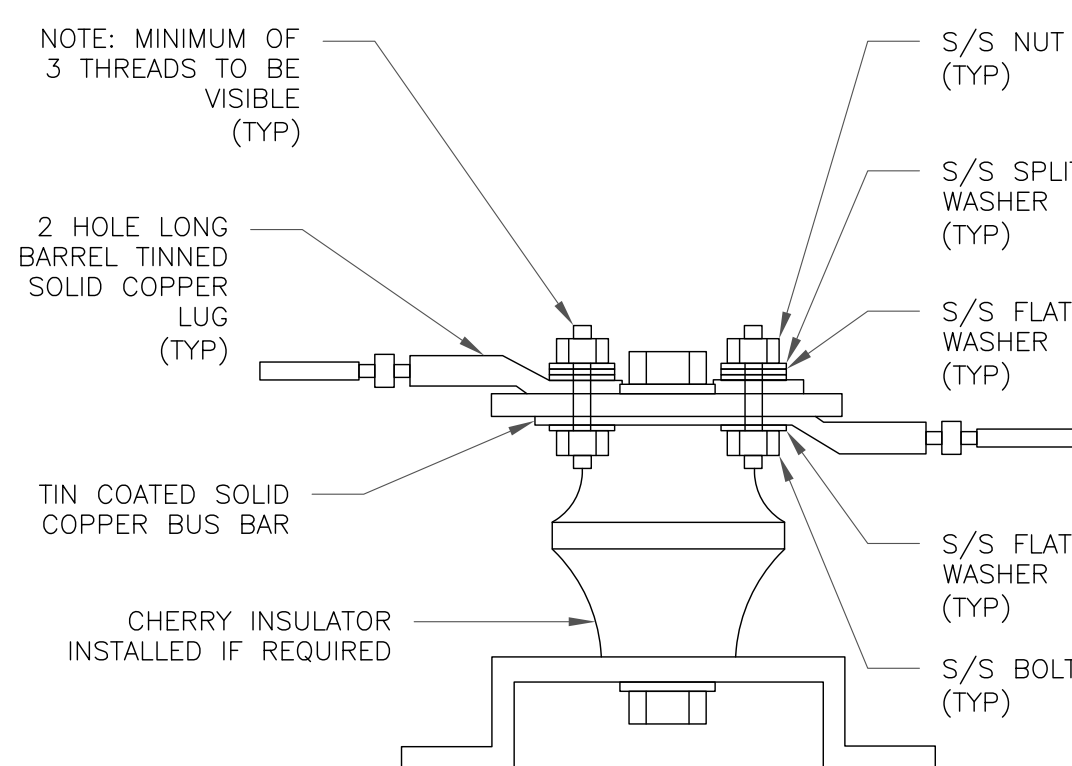
8 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



NOTES:

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

6 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE



AT&T SITE NUMBER: CT5111

BU #: 828915
WALLINGFORD/ I-91/ X14/ S

316 WOODHOUSE AVENUE
WALLINGFORD, CT 06492

EXISTING 148'-0" MONOPOLE

ISSUED FOR:

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SHEET NUMBER:

G-2

REVISION:

0

Diagram - Sector A Diagram File Name - CT5111_Descope_A_B_G_Rev.1.vsd
 Atoll Site Name - CT5111 Location Name - WALLINGFORD-POND HILL Market - CONNECTICUT Market Cluster - NEW ENGLAND
 Comments: "Important Note: For detailed radio to antenna wiring refer to the latest field notice - Antenna Radio Connection Drawings Playbook v6.0 Ericsson"

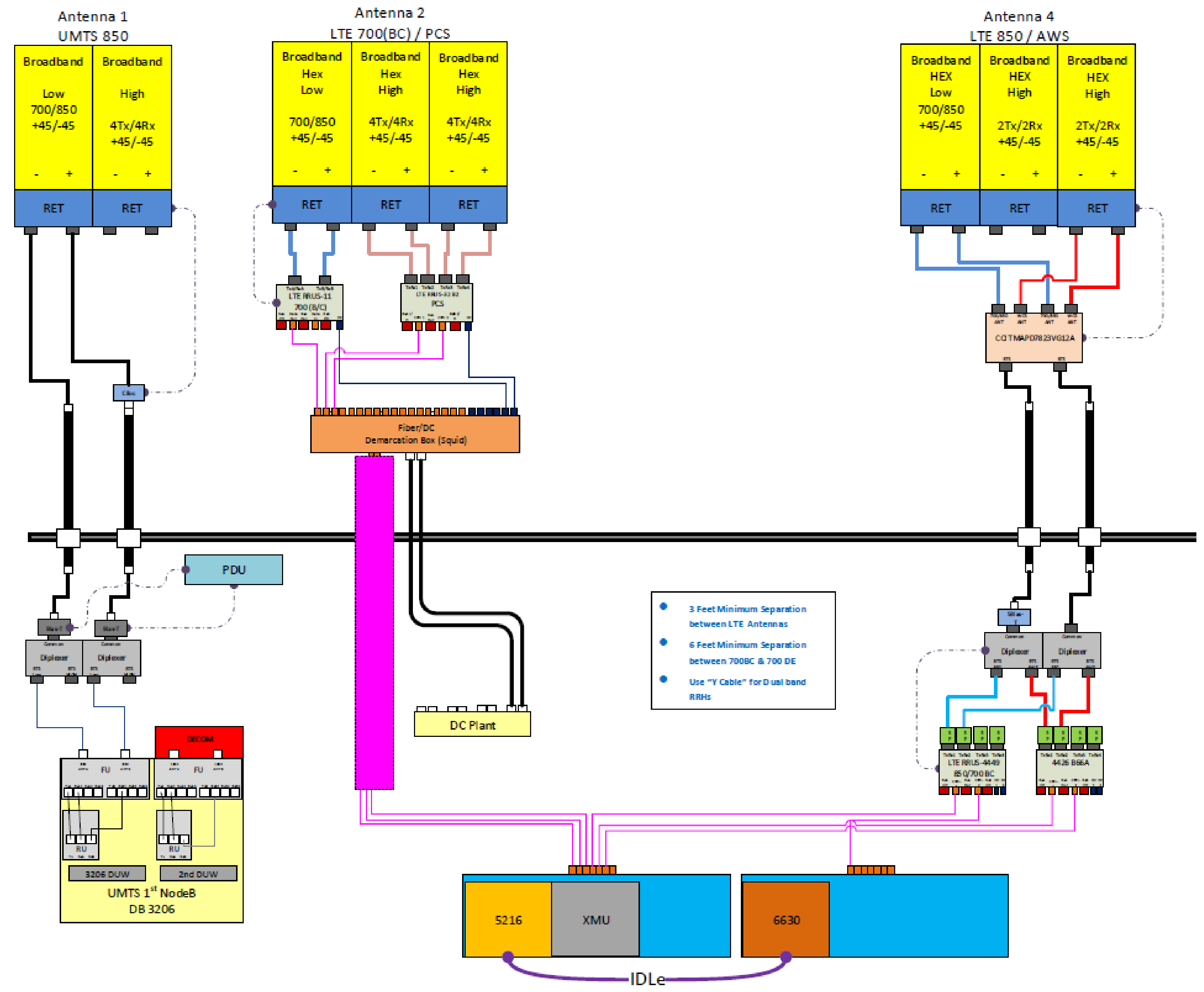


Diagram - Sector B Diagram File Name - CT5111_Descope_A_B_G_Rev.1.vsd
 Atoll Site Name - CT5111 Location Name - WALLINGFORD-POND HILL Market - CONNECTICUT Market Cluster - NEW ENGLAND
 Comments: *Important Note: For detailed radio to antenna wiring refer to the latest field notice - Antenna Radio Connection Drawings Playbook v6.0 Ericsson*

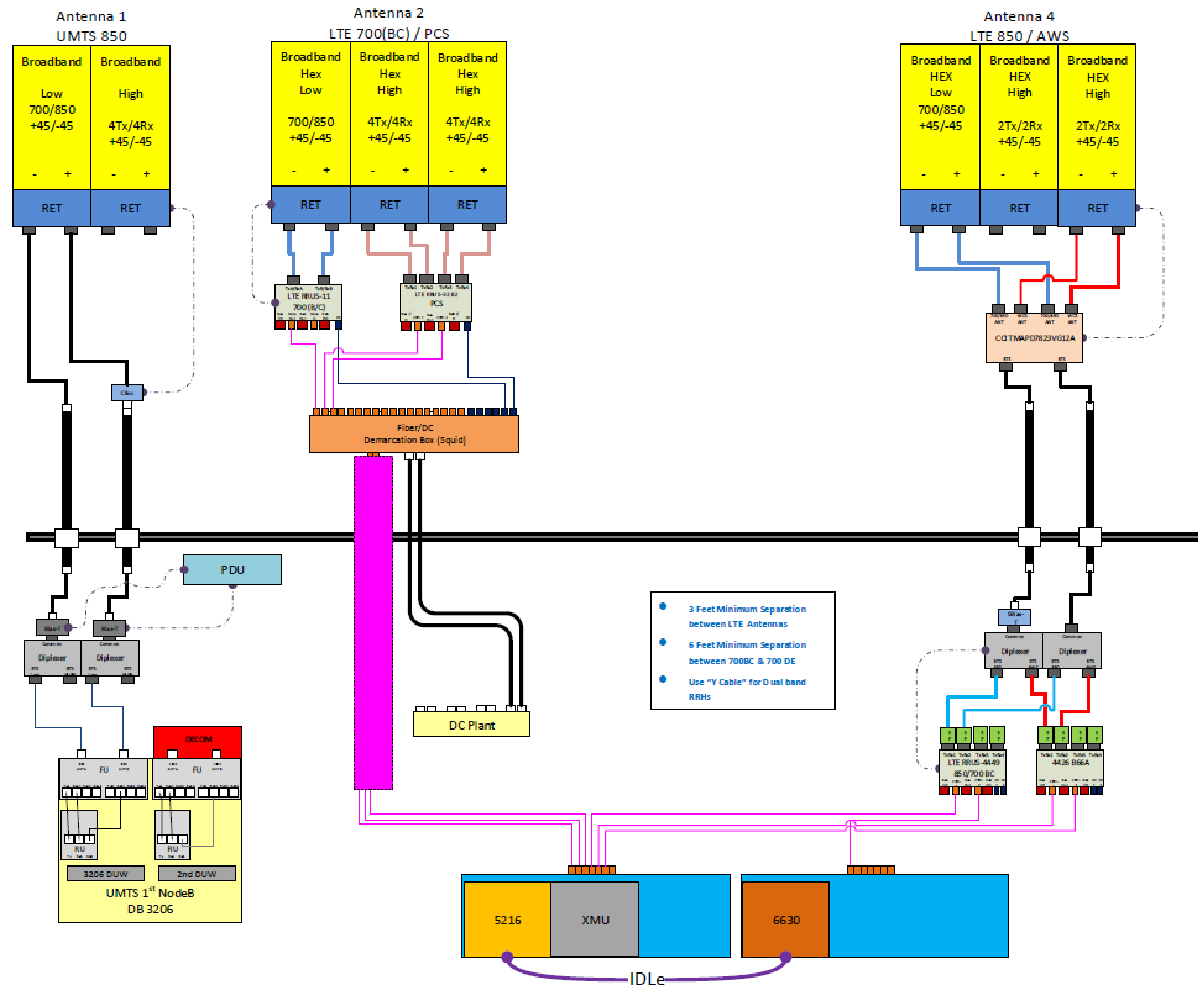


Diagram - Sector C Diagram File Name - CT5111_Descope_A_B_G_Rev.1.vsd
 Atoll Site Name - CT5111 Location Name - WALLINGFORD-POND HILL Market - CONNECTICUT Market Cluster - NEW ENGLAND
 Comments: *Important Note: For detailed radio to antenna wiring refer to the latest field notice - Antenna Radio Connection Drawings Playbook v6.0 Ericsson*

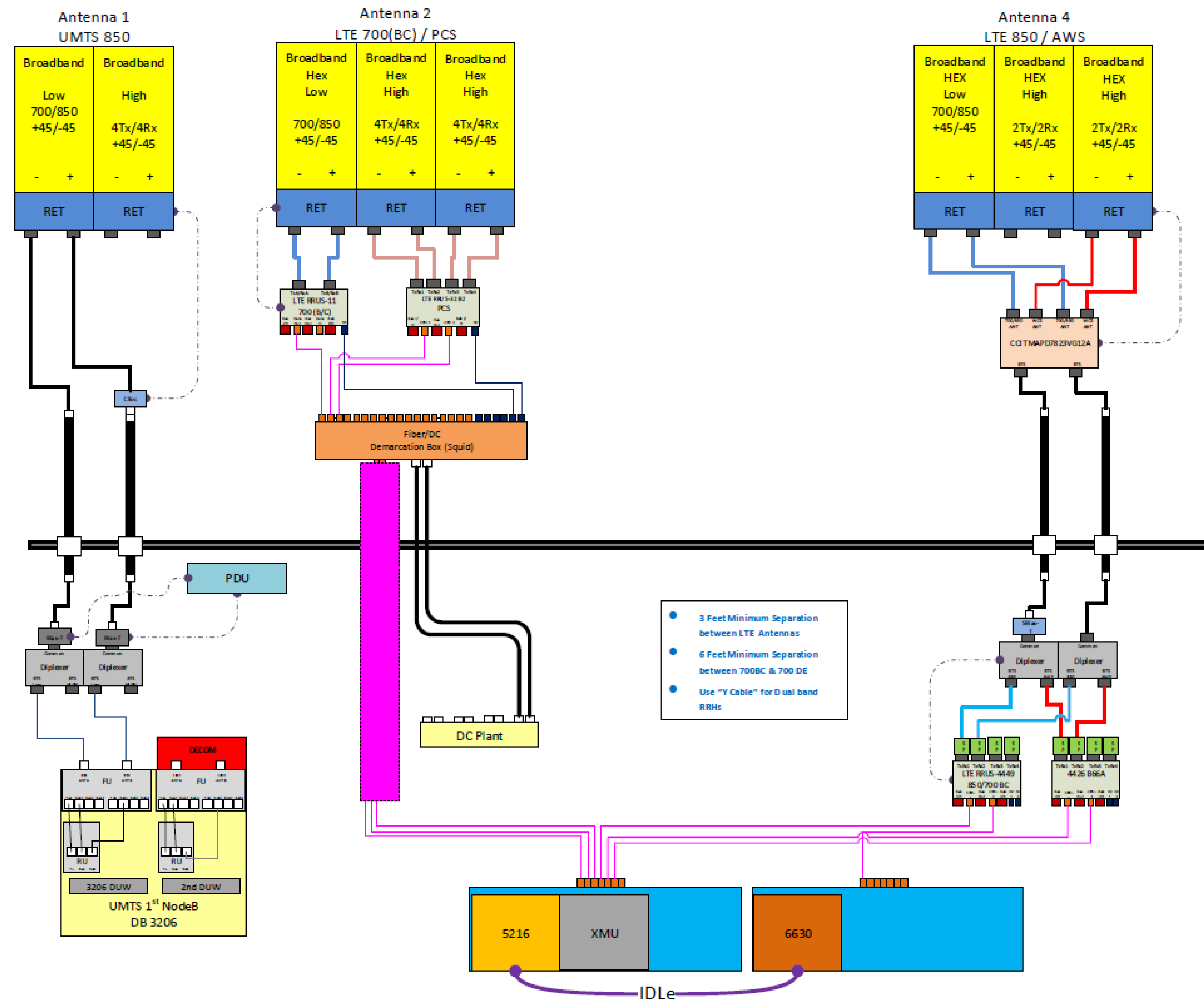


Exhibit D



Date: **March 10, 2021**

B+T Group
1717 S. Boulder, Suite 300
Tulsa, OK 74119
(918) 587-4630

Subject: **Structural Analysis Report**

Carrier Designation: **AT&T Mobility Co-Locate**
Site Number: 44020
Site Name: WALLINGFORD-POND HILL
FA Number: 10071340

Crown Castle Designation: **BU Number:** 828915
Site Name: Wallingford/ I-91/ X14/ S
JDE Job Number: 605378
Work Order Number: 1933976
Order Number: 517093 Rev. 1

Engineering Firm Designation: **B+T Group Project Number:** 126632.009.01

Site Data: **316 Woodhouse Avenue, Wallingford, New Haven County, CT**
Latitude 41° 26' 2.76", Longitude -72° 48' 5.26"
147.083 Foot - Monopole Tower

B+T Group 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-85.0%

This analysis has been performed in accordance with the 2018 Connecticut State Building Code based upon an ultimate 3-second gust wind speed of 125 mph. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Brandon Sevier, P.E.

Respectfully submitted by: B+T Engineering, Inc.
COA: PEC.0001564; Expires: 02/10/2021



Chad E. Tuttle, P.E.

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1) INTRODUCTION

This is a 147.1 ft. monopole designed by PiRod in March of 2000.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	125 mph
Exposure Category:	C
Topographic Factor:	1
Ice Thickness:	1.5 in
Wind Speed with Ice:	50 mph
Service Wind Speed:	60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
128.0	128.0	3	CCI Antennas	HPA-65R-BUU-H6	12 2 1	1-5/8 7/16 3/8
		3	CCI Antennas	HPA65R-BU6A		
		3	CCI Antennas	TMABPD7823VG12A		
		3	Ericsson	RRUS 11 B12		
		3	Ericsson	RRUS 32 B2		
		3	Kathrein	782 10254		
		6	Kathrein	860 10025		
		3	Powerwave Tech.	7770.00		
		1	Raycap	DC6-48-60-18-8F		
	1	--	Platform Mount [LP 403-1]			
	126.5	1	Site Pro1	PRK-SFS Kit		

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)
148.0	148.0	3	Ericsson	ERICSSON AIR 21 B2A B4P	12 1	1-5/8 1-1/4
		3	Commscope	LNx-6515DS-VTM		
		3	Ericsson	ERICSSON AIR 21 B4A B2P		
		3	Ericsson	KRY 112 144/1		
		1	--	Platform Mount [LP 403-1]		
	146.0	3	RFS Celwave	ATMAA1412D-1A20		
		3	Ericsson	RRUS 11 B12		
138.0	138.0	1	Andrew	VHLP1-23-DW1	4 3	1-1/4 1/2
		3	Alcatel Lucent	PCS 1900MHZ 4X45W-65MHZ		
		6	Alcatel Lucent	RRH2X50-800		
		3	Commscope	NNVV-65B-R4		
		3	Nokia	FZHN		
		3	RFS Celwave	APXVTM14-ALU-I20		
		1	--	Platform Mount [LP 404-1]		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
Tower Manufacturer Drawing	3822414	CCI Sites
Mount Analysis	9639020	CCI Sites
Mount Modification Drawing	9099406	CCI Sites
Foundation Mapping	3590825	CCI Sites
Geotech Report	3590826	CCI Sites
Antenna Configuration	Date: 02/19/2021	CCI Sites

3.1) Analysis Method

tnxTower (version 8.0.7.5), 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.
- 3) Base and flange plate design methodology of the manufacturer has been reviewed and found to be an acceptable means of designing to resist the full capacity of the bolts and shaft

This analysis may be affected if any assumptions are not valid or have been made in error. B+T Group 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)	SF*P_allow (K)	% Capacity	Pass / Fail
L1	147.083 - 136.583	Pole	TP17.688x15x0.25	1	-3.293	824.966	10.2	Pass
L2	136.583 - 101.083	Pole	TP26x16.676x0.25	2	-14.188	1219.722	65.3	Pass
L3	101.083 - 66.5	Pole	TP34.063x24.775x0.313	3	-20.571	1998.402	66.9	Pass
L4	66.5 - 32.8333	Pole	TP41.75x32.488x0.375	4	-29.043	2940.703	60.1	Pass
L5	32.8333 - 0	Pole	TP49.063x39.847x0.375	5	-40.582	3559.594	65.1	Pass
							Summary	
						Pole (L3)	66.9	Pass
						Rating =	66.9	Pass

Table 5 - Tower Component Stresses vs. Capacity – LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1,2	Splice Connection	101.083	77.4	Pass
1,2	Anchor Rods	Base	63.1	Pass
1,2,3	Base Plate	Base	65.1	Pass
1,2	Base Foundation	Base	85.0	Pass
1,2	Base Foundation Soil Interaction	Base	75.9	Pass

Structure Rating (max from all components) =	85.0%
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Notes:

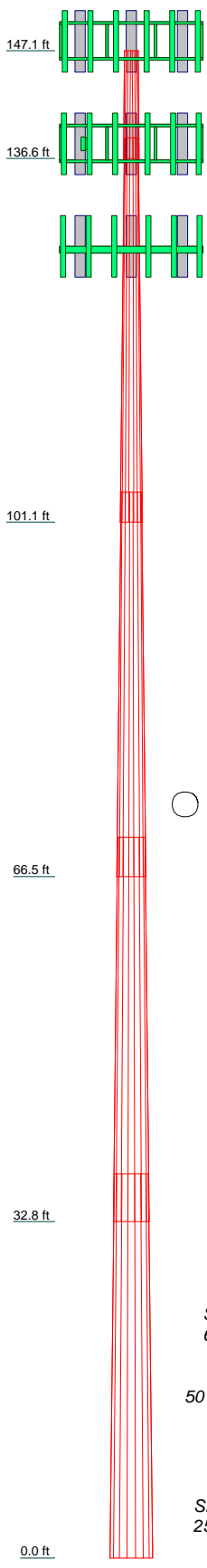
- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.
- 2) Base plate has the same capacity as its respective shaft.
- 3) Rating per TIA-222-H Section 15.5.

4.1) Recommendations

The tower and its foundations 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	5	6.7	18.6
Length (ft)	10.500	37.500	37.500	37.500	37.500	37.500	18.6
Number of Sides	18	18	18	18	18	18	
Thickness (in)	0.250	0.250	0.313	0.375	0.375	0.375	
Socket Length (ft)	2.000	2.917	3.833	4.667	39.847	49.063	
Top Dia (in)	15.000	16.676	24.775	32.488	39.847	49.063	
Bot Dia (in)	17.688	26.000	34.063	41.750	49.063	49.063	
Grade			A572-65				
Weight (K)	0.5	2.1	3.7	5.6	6.7	6.7	



MATERIAL STRENGTH

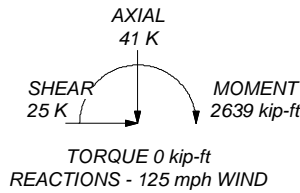
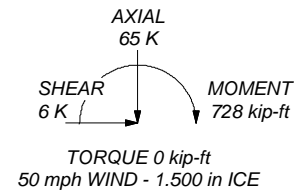
GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

1. Tower is located in New Haven County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 125 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 0.000 ft
8. TIA-222-H Annex S
9. TOWER RATING: 66.9%

147.1 ft
136.6 ft
101.1 ft
66.5 ft
32.8 ft
0.0 ft

ALL REACTIONS ARE FACTORED



B+T Group
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FAX: (918) 295-0265

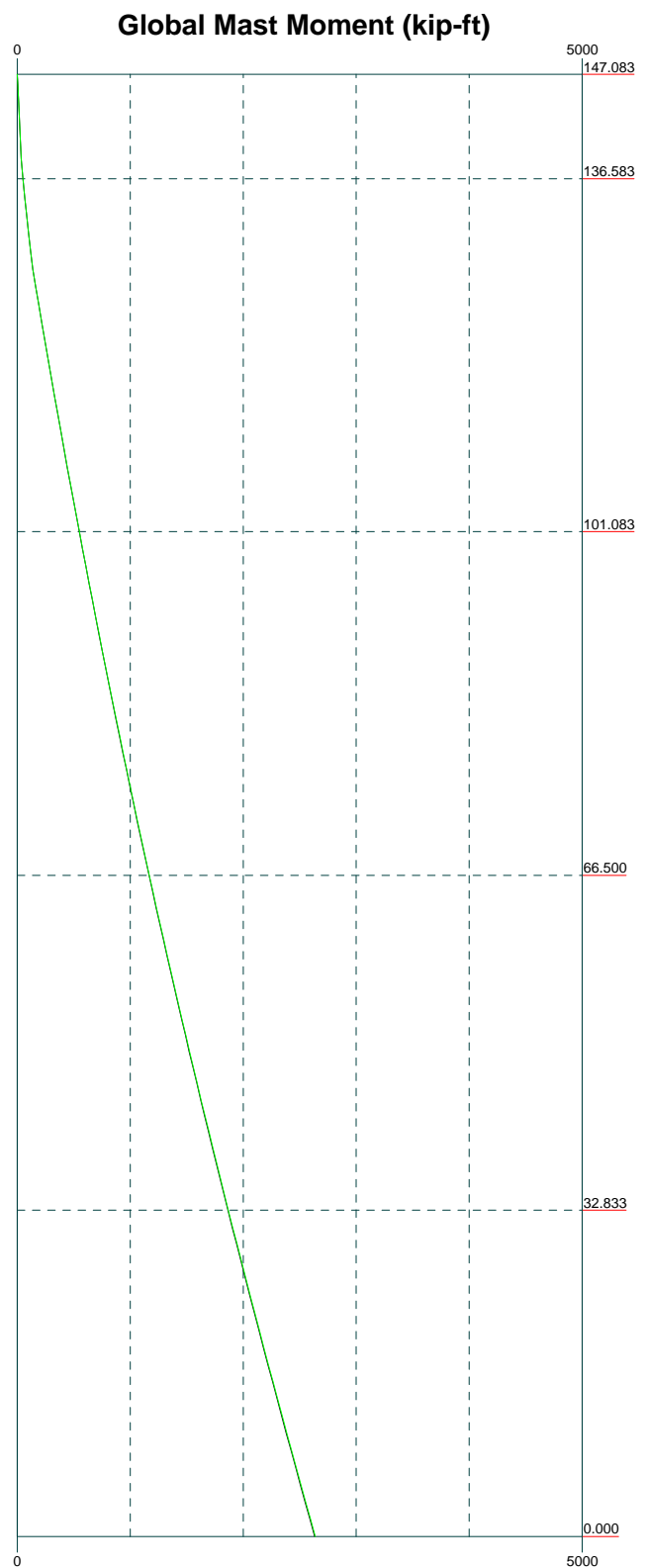
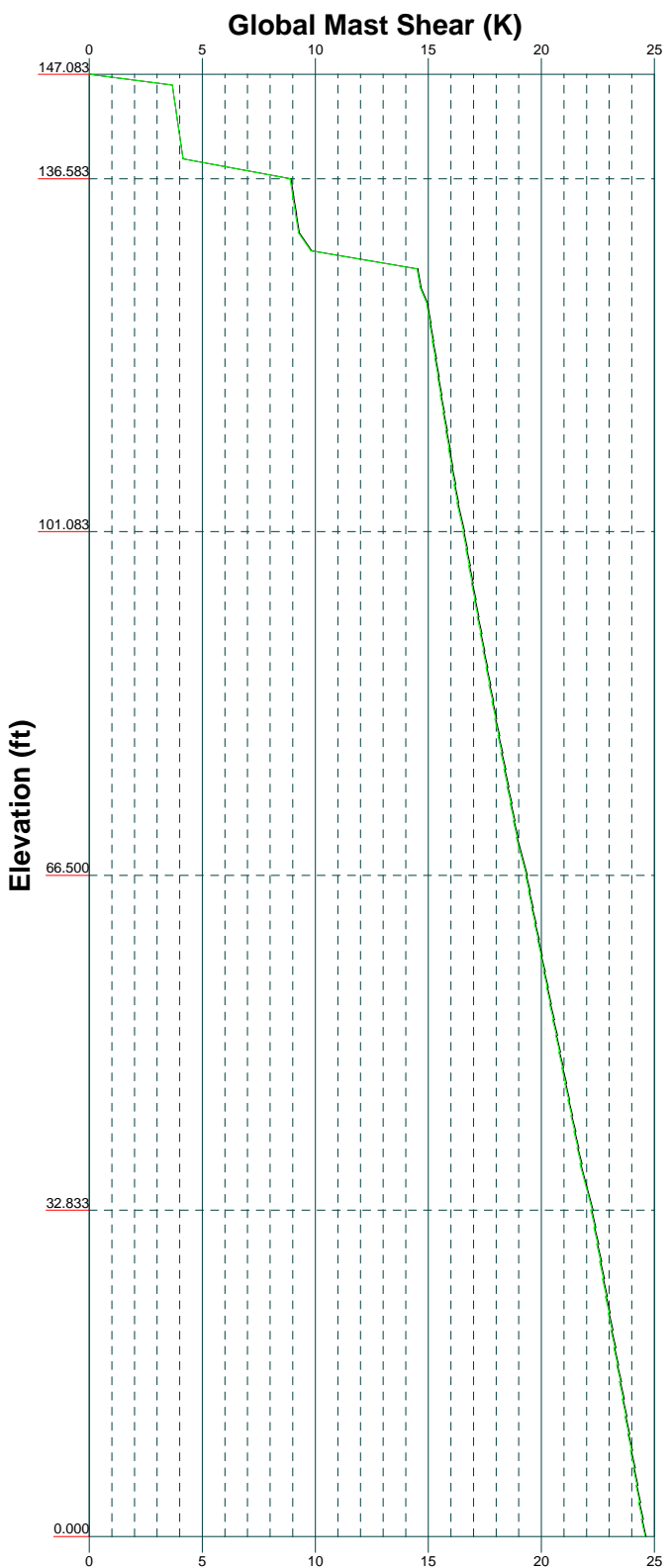
Job:	126632.009.01 - Wallingford/ I-91/ X14/ S, CT (BU# 82891)		
Project:			
Client:	Crown Castle	Drawn by:	GURUPRASAD
Code:	TIA-222-H	Date:	03/09/21
Path:			App'd:
			Scale: NTS
			Dwg No. E-1


Vx

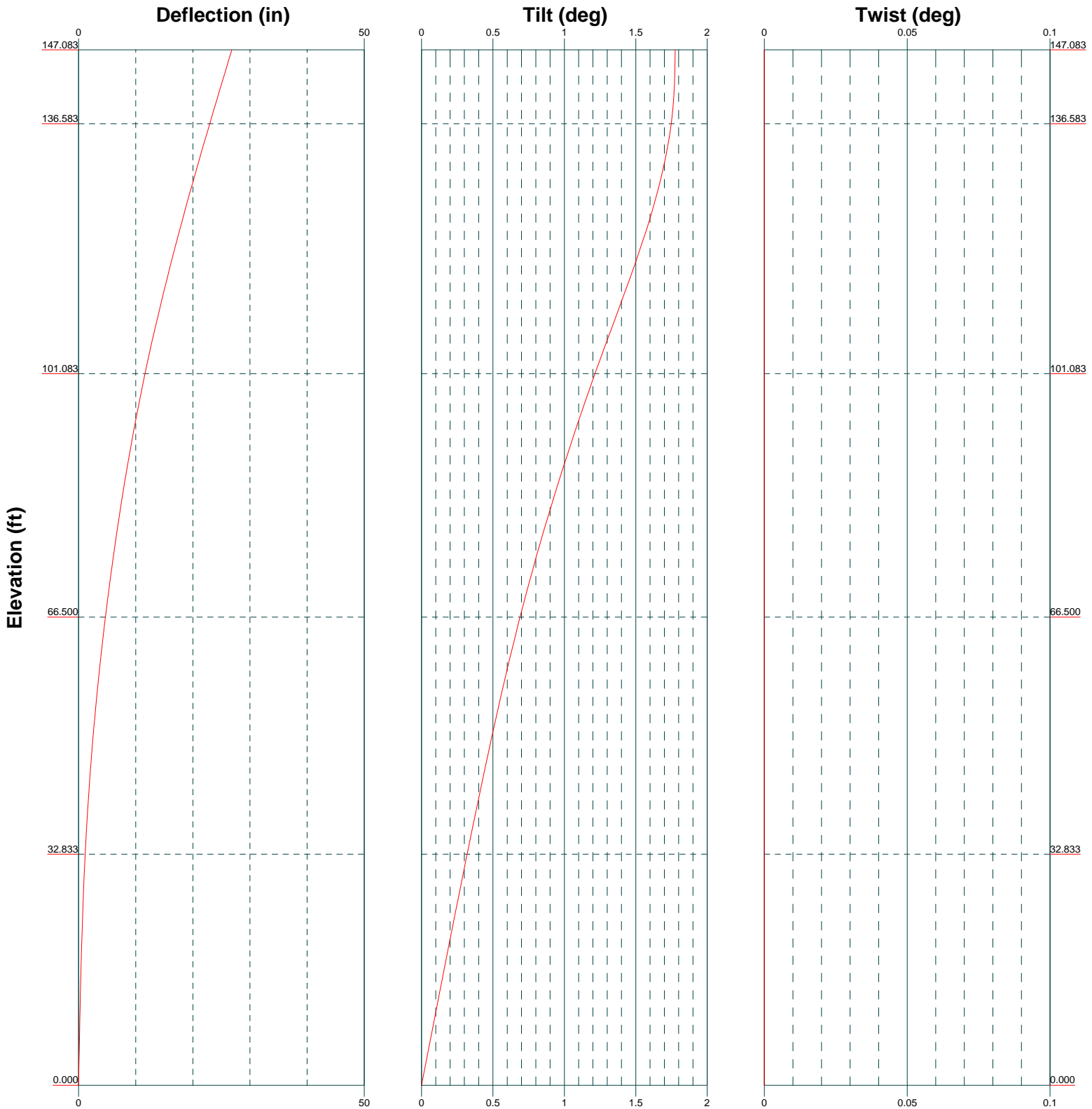
Vz

Mx

Mz



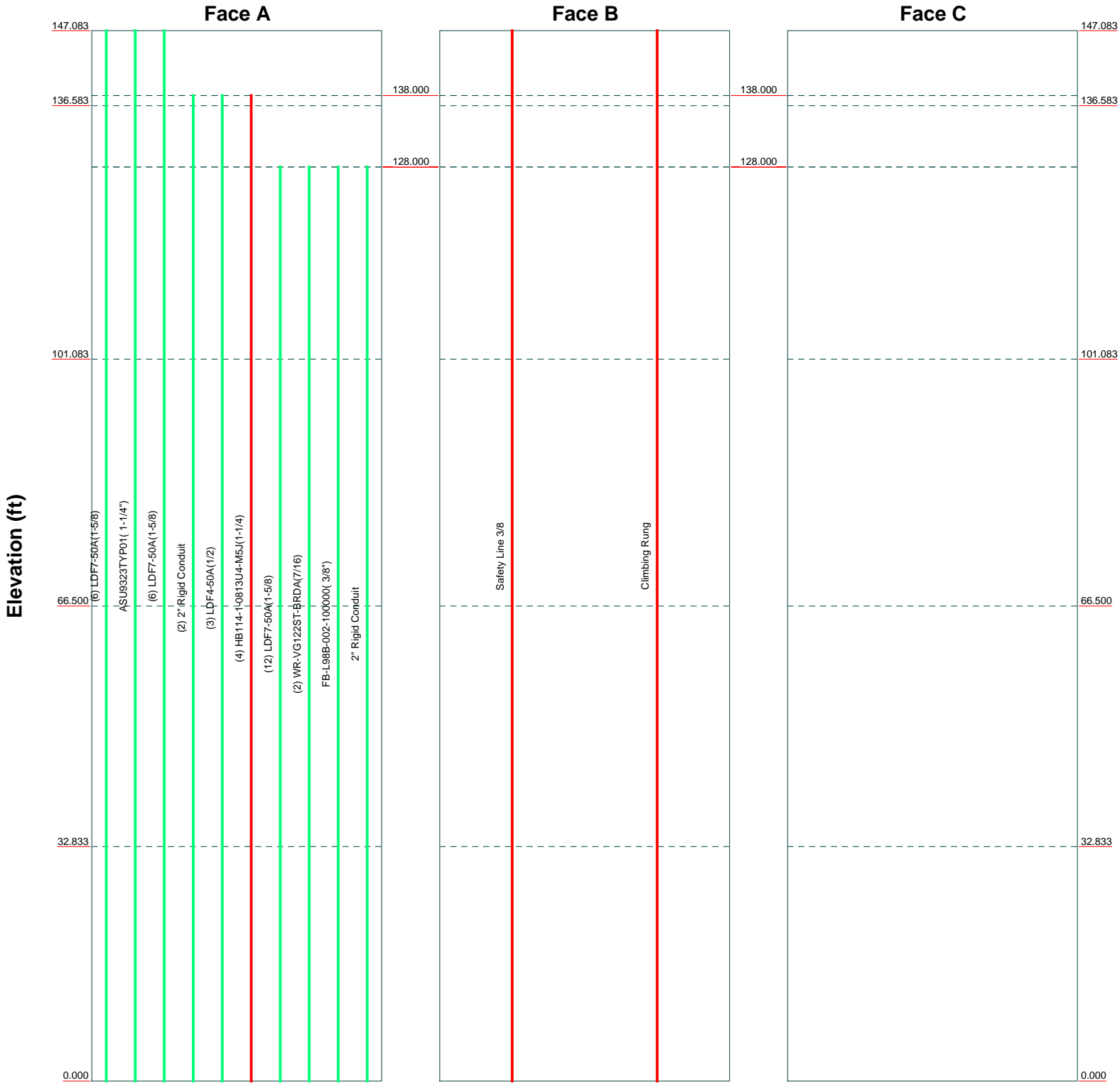
 <p>B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	<p>Job: 126632.009.01 - Wallingford/ I-91/ X14/ S, CT (BU# 82891)</p>		
	<p>Project:</p>		
	<p>Client: Crown Castle</p>	<p>Drawn by: GURUPRASAD</p>	<p>App'd:</p>
	<p>Code: TIA-222-H</p>	<p>Date: 03/09/21</p>	<p>Scale: NTS</p>
<p>Path:</p>	<p>Dwg No. E-4</p>		




Feed Line Distribution Chart

0' - 147'1"

— Round
 — Flat
 — App In Face
 — App Out Face
 — Truss Leg



 B+T GRP	B+T Group		Job: 126632.009.01 - Wallingford/ I-91/ X14/ S, CT (BU# 82891)		
	1717 S. Boulder, Suite 300		Project:		
	Tulsa, OK 74119		Client: Crown Castle	Drawn by: GURUPRASAD	App'd:
	Phone: (918) 587-4630		Code: TIA-222-H	Date: 03/09/21	Scale: NTS
FAX: (918) 295-0265		Path:	Dwg No. E-7		

<p>tnxTower</p> <p>B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	Job 126632.009.01 - Wallingford/ I-91/ X14/ S, CT (BU# 828915)	Page 1 of 20
	Project	Date 18:43:05 03/09/21
	Client Crown Castle	Designed by GURUPRASAD

Tower Input Data

The tower is a monopole.

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

The following design criteria apply:

- Tower is located in New Haven County, Connecticut.
- Tower base elevation above sea level: 229.000 ft.
- Basic wind speed of 125 mph.
- Risk Category II.
- Exposure Category C.
- Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- Topographic Category: 1.
- Crest Height: 0.000 ft.
- Nominal ice thickness of 1.500 in.
- Ice thickness is considered to increase with height.
- Ice density of 56.000 pcf.
- A wind speed of 50 mph is used in combination with ice.
- Temperature drop of 50.000 °F.
- Deflections calculated using a wind speed of 60 mph.
- TIA-222-H Annex S.
- A non-linear (P-delta) analysis was used.
- Pressures are calculated at each section.
- Stress ratio used in pole design is 1.05.
- Tower analysis based on target reliabilities in accordance with Annex S.
- Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
- Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

- | | | |
|--|---|---|
| <ul style="list-style-type: none"> Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification Use Code Stress Ratios √ Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use Special Wind Profile Include Bolts In Member Capacity Leg Bolts Are At Top Of Section Secondary Horizontal Braces Leg Use Diamond Inner Bracing (4 Sided) SR Members Have Cut Ends SR Members Are Concentric | <ul style="list-style-type: none"> Distribute Leg Loads As Uniform Assume Legs Pinned √ Assume Rigid Index Plate √ Use Clear Spans For Wind Area Use Clear Spans For KL/r Retension Guys To Initial Tension √ Bypass Mast Stability Checks √ Use Azimuth Dish Coefficients √ Project Wind Area of Appurt. Autocalc Torque Arm Areas Add IBC .6D+W Combination Sort Capacity Reports By Component Triangulate Diamond Inner Bracing Treat Feed Line Bundles As Cylinder Ignore KL/ry For 60 Deg. Angle Legs | <ul style="list-style-type: none"> Use ASCE 10 X-Brace Ly Rules Calculate Redundant Bracing Forces Ignore Redundant Members in FEA SR Leg Bolts Resist Compression All Leg Panels Have Same Allowable Offset Girt At Foundation √ Consider Feed Line Torque Include Angle Block Shear Check Use TIA-222-H Bracing Resist. Exemption Use TIA-222-H Tension Splice Exemption <li style="text-align: center;">Poles √ Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets Pole Without Linear Attachments Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known |
|--|---|---|

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	Project	Date 18:43:05 03/09/21
	Client Crown Castle	Designed by GURUPRASAD

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	147.083-136.583	10.500	2.000	18	15.000	17.688	0.250	1.000	A572-65 (65 ksi)
L2	136.583-101.083	37.500	2.917	18	16.676	26.000	0.250	1.000	A572-65 (65 ksi)
L3	101.083-66.500	37.500	3.833	18	24.775	34.063	0.313	1.250	A572-65 (65 ksi)
L4	66.500-32.833	37.500	4.667	18	32.488	41.750	0.375	1.500	A572-65 (65 ksi)
L5	32.833-0.000	37.500		18	39.847	49.063	0.375	1.500	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	I ² /Q in ²	w in	w/t
L1	15.193	11.704	321.707	5.236	7.620	42.219	643.837	5.853	2.200	8.8
L2	17.922	13.837	531.541	6.190	8.985	59.157	1063.782	6.920	2.673	10.692
L3	25.842	24.264	1834.360	8.684	12.586	145.751	3671.134	12.134	3.810	12.193
L4	33.893	38.223	4979.914	11.400	16.504	301.741	9966.380	19.115	5.058	13.488
L5	49.762	57.950	17355.138	17.284	24.924	696.329	34733.112	28.981	7.975	21.267

Tower Elevation ft	Gusset Area (per face) ft ²	Gusset Thickness in	Gusset Grade	Adjust. Factor A _f	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L1 147.083-136.583				1	1	1			
L2 136.583-101.083				1	1	1			
L3 101.083-66.500				1	1	1			
L4 66.500-32.833				1	1	1			
L5 32.833-0.000				1	1	1			

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	Project	Date 18:43:05 03/09/21
	Client Crown Castle	Designed by GURUPRASAD

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 klf
HB114-1-0813U4-M5J(1-1/4) *	A	No	Surface Ar (CaAa)	138.000 - 0.000	4	4	0.350 0.450	1.540		0.001
Safety Line 3/8	B	No	Surface Ar (CaAa)	147.083 - 0.000	1	1	0.040 0.050	0.375		0.000
Climbing Rung * * *	B	No	Surface Ar (CaAa)	147.083 - 0.000	1	1	0.000 0.100	1.000		0.008

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C _{AA} ft ² /ft	Weight klf
LDF7-50A(1-5/8)	A	No	No	Inside Pole	147.083 - 0.000	6	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.001 0.001 0.001 0.001
ASU9323TYP01(1-1/4")	A	No	No	Inside Pole	147.083 - 0.000	1	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.001 0.001 0.001 0.001
LDF7-50A(1-5/8) *	A	No	No	Inside Pole	147.083 - 0.000	6	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.001 0.001 0.001 0.001
2" Rigid Conduit	A	No	No	Inside Pole	138.000 - 0.000	2	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.003 0.003 0.003 0.003
LDF4-50A(1/2) *	A	No	No	Inside Pole	138.000 - 0.000	3	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000
LDF7-50A(1-5/8)	A	No	No	Inside Pole	128.000 - 0.000	12	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.001 0.001 0.001 0.001
WR-VG122ST-BRD A(7/16)	A	No	No	Inside Pole	128.000 - 0.000	2	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000
FB-L98B-002-10000 0(3/8")	A	No	No	Inside Pole	128.000 - 0.000	1	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000
2" Rigid Conduit	A	No	No	Inside Pole	128.000 - 0.000	1	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.003 0.003 0.003

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	Project	Date 18:43:05 03/09/21
	Client Crown Castle	Designed by GURUPRASAD

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	C _A A _A ft ² /ft	Weight klf
*						2" Ice	0.000	0.003

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
L1	147.083-136.583	A	0.000	0.000	0.873	0.000	0.130
		B	0.000	0.000	1.444	0.000	0.091
		C	0.000	0.000	0.000	0.000	0.000
L2	136.583-101.083	A	0.000	0.000	21.868	0.000	1.121
		B	0.000	0.000	4.881	0.000	0.306
		C	0.000	0.000	0.000	0.000	0.000
L3	101.083-66.500	A	0.000	0.000	21.303	0.000	1.201
		B	0.000	0.000	4.755	0.000	0.298
		C	0.000	0.000	0.000	0.000	0.000
L4	66.500-32.833	A	0.000	0.000	20.739	0.000	1.169
		B	0.000	0.000	4.629	0.000	0.290
		C	0.000	0.000	0.000	0.000	0.000
L5	32.833-0.000	A	0.000	0.000	20.225	0.000	1.140
		B	0.000	0.000	4.515	0.000	0.283
		C	0.000	0.000	0.000	0.000	0.000

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
L1	147.083-136.583	A	1.475	0.000	0.000	1.613	0.000	0.146
		B		0.000	0.000	7.639	0.000	0.172
		C		0.000	0.000	0.000	0.000	0.000
L2	136.583-101.083	A	1.448	0.000	0.000	40.426	0.000	1.523
		B		0.000	0.000	25.826	0.000	0.583
		C		0.000	0.000	0.000	0.000	0.000
L3	101.083-66.500	A	1.398	0.000	0.000	39.148	0.000	1.584
		B		0.000	0.000	24.785	0.000	0.559
		C		0.000	0.000	0.000	0.000	0.000
L4	66.500-32.833	A	1.327	0.000	0.000	37.694	0.000	1.527
		B		0.000	0.000	23.462	0.000	0.530
		C		0.000	0.000	0.000	0.000	0.000
L5	32.833-0.000	A	1.188	0.000	0.000	36.177	0.000	1.469
		B		0.000	0.000	21.947	0.000	0.498
		C		0.000	0.000	0.000	0.000	0.000

Feed Line Center of Pressure

tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job 126632.009.01 - Wallingford/ I-91/ X14/ S, CT (BU# 828915)	Page 5 of 20
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	Client Crown Castle	Designed by GURUPRASAD

Section	Elevation	CP _x	CP _z	CP _x Ice	CP _z Ice
	ft	in	in	in	in
L1	147.083-136.583	0.743	-1.024	1.841	-1.369
L2	136.583-101.083	-0.036	-3.645	0.949	-3.306
L3	101.083-66.500	-0.033	-3.976	1.101	-3.829
L4	66.500-32.833	-0.031	-4.189	1.183	-4.182
L5	32.833-0.000	-0.030	-4.338	1.212	-4.420

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

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L1	9	HB114-1-0813U4-M5J(1-1/4)	136.58 - 138.00	1.0000	1.0000
L1	18	Safety Line 3/8	136.58 - 147.08	1.0000	1.0000
L1	19	Climbing Rung	136.58 - 147.08	1.0000	1.0000
L2	9	HB114-1-0813U4-M5J(1-1/4)	101.08 - 136.58	1.0000	1.0000
L2	18	Safety Line 3/8	101.08 - 136.58	1.0000	1.0000
L2	19	Climbing Rung	101.08 - 136.58	1.0000	1.0000
L3	9	HB114-1-0813U4-M5J(1-1/4)	66.50 - 101.08	1.0000	1.0000
L3	18	Safety Line 3/8	66.50 - 101.08	1.0000	1.0000
L3	19	Climbing Rung	66.50 - 101.08	1.0000	1.0000
L4	9	HB114-1-0813U4-M5J(1-1/4)	32.83 - 66.50	1.0000	1.0000
L4	18	Safety Line 3/8	32.83 - 66.50	1.0000	1.0000
L4	19	Climbing Rung	32.83 - 66.50	1.0000	1.0000
L5	9	HB114-1-0813U4-M5J(1-1/4)	0.00 - 32.83	1.0000	1.0000
L5	18	Safety Line 3/8	0.00 - 32.83	1.0000	1.0000
L5	19	Climbing Rung	0.00 - 32.83	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 _A A _A Front ft ²	C _A A _A Side ft ²	Weight K	
ERICSSON AIR 21 B2A	A	From Leg	4.000	0.000	148.000	No Ice	3.140	2.590	0.112

tnxTower

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Client
 Crown Castle

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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Lateral					
B4P w/ Mount Pipe			0.000			1/2" Ice	3.450	2.880	0.164
			0.000			1" Ice	3.770	3.190	0.225
						2" Ice	4.430	3.840	0.375
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	B	From Leg	4.000	0.000	148.000	No Ice	3.140	2.590	0.112
			0.000			1/2" Ice	3.450	2.880	0.164
			0.000			1" Ice	3.770	3.190	0.225
						2" Ice	4.430	3.840	0.375
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	C	From Leg	4.000	0.000	148.000	No Ice	3.140	2.590	0.112
			0.000			1/2" Ice	3.450	2.880	0.164
			0.000			1" Ice	3.770	3.190	0.225
						2" Ice	4.430	3.840	0.375
LNx-6515DS-VTM w/ Mount Pipe	A	From Leg	4.000	0.000	148.000	No Ice	5.310	4.270	0.083
			0.000			1/2" Ice	5.800	4.750	0.165
			0.000			1" Ice	6.300	5.240	0.261
						2" Ice	7.330	6.240	0.495
LNx-6515DS-VTM w/ Mount Pipe	B	From Leg	4.000	0.000	148.000	No Ice	5.310	4.270	0.083
			0.000			1/2" Ice	5.800	4.750	0.165
			0.000			1" Ice	6.300	5.240	0.261
						2" Ice	7.330	6.240	0.495
LNx-6515DS-VTM w/ Mount Pipe	C	From Leg	4.000	0.000	148.000	No Ice	5.310	4.270	0.083
			0.000			1/2" Ice	5.800	4.750	0.165
			0.000			1" Ice	6.300	5.240	0.261
						2" Ice	7.330	6.240	0.495
ERICSSON AIR 21 B4A B2P w/ Mount Pipe	A	From Leg	4.000	0.000	148.000	No Ice	3.140	2.590	0.111
			0.000			1/2" Ice	3.450	2.880	0.163
			0.000			1" Ice	3.770	3.190	0.224
						2" Ice	4.430	3.840	0.374
ERICSSON AIR 21 B4A B2P w/ Mount Pipe	B	From Leg	4.000	0.000	148.000	No Ice	3.140	2.590	0.111
			0.000			1/2" Ice	3.450	2.880	0.163
			0.000			1" Ice	3.770	3.190	0.224
						2" Ice	4.430	3.840	0.374
ERICSSON AIR 21 B4A B2P w/ Mount Pipe	C	From Leg	4.000	0.000	148.000	No Ice	3.140	2.590	0.111
			0.000			1/2" Ice	3.450	2.880	0.163
			0.000			1" Ice	3.770	3.190	0.224
						2" Ice	4.430	3.840	0.374
ATMAA1412D-1A20	A	From Leg	4.000	0.000	148.000	No Ice	0.407	1.000	0.013
			0.000			1/2" Ice	0.497	1.126	0.021
			-2.000			1" Ice	0.593	1.259	0.030
						2" Ice	0.815	1.548	0.056
ATMAA1412D-1A20	B	From Leg	4.000	0.000	148.000	No Ice	0.407	1.000	0.013
			0.000			1/2" Ice	0.497	1.126	0.021
			-2.000			1" Ice	0.593	1.259	0.030
						2" Ice	0.815	1.548	0.056
ATMAA1412D-1A20	C	From Leg	4.000	0.000	148.000	No Ice	0.407	1.000	0.013
			0.000			1/2" Ice	0.497	1.126	0.021
			-2.000			1" Ice	0.593	1.259	0.030
						2" Ice	0.815	1.548	0.056
KRY 112 144/1	A	From Leg	4.000	0.000	148.000	No Ice	0.350	0.175	0.011
			0.000			1/2" Ice	0.426	0.234	0.014
			0.000			1" Ice	0.509	0.301	0.019
						2" Ice	0.698	0.456	0.032
KRY 112 144/1	B	From Leg	4.000	0.000	148.000	No Ice	0.350	0.175	0.011
			0.000			1/2" Ice	0.426	0.234	0.014
			0.000			1" Ice	0.509	0.301	0.019
						2" Ice	0.698	0.456	0.032
KRY 112 144/1	C	From Leg	4.000	0.000	148.000	No Ice	0.350	0.175	0.011
			0.000			1/2" Ice	0.426	0.234	0.014

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Client
 Crown Castle
 Designed by
 GURUPRASAD

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
			Horz ft	Lateral ft					
			0.000						
RRUS 11 B12	A	From Leg	4.000	0.000	148.000	1" Ice	0.509	0.301	0.019
			0.000			2" Ice	0.698	0.456	0.032
			-2.000			No Ice	2.833	1.182	0.051
						1/2" Ice	3.043	1.330	0.072
RRUS 11 B12	B	From Leg	4.000	0.000	148.000	1" Ice	3.259	1.485	0.095
			0.000			2" Ice	3.715	1.826	0.153
			-2.000			No Ice	2.833	1.182	0.051
						1/2" Ice	3.043	1.330	0.072
RRUS 11 B12	C	From Leg	4.000	0.000	148.000	1" Ice	3.259	1.485	0.095
			0.000			2" Ice	3.715	1.826	0.153
			-2.000			No Ice	2.833	1.182	0.051
						1/2" Ice	3.043	1.330	0.072
6' x 2" Mount Pipe	C	From Leg	0.500	0.000	148.000	1" Ice	3.259	1.485	0.095
			0.000			2" Ice	3.715	1.826	0.153
			0.000			No Ice	1.425	1.425	0.022
						1/2" Ice	1.925	1.925	0.033
Platform Mount [LP 403-1]	C	None		0.000	148.000	1" Ice	2.294	2.294	0.048
						2" Ice	3.060	3.060	0.090
						No Ice	18.940	18.940	1.500
						1/2" Ice	23.310	23.310	1.902
* APXVTM14-ALU-I20 w/ Mount Pipe	A	From Leg	4.000	0.000	138.000	1" Ice	27.740	27.740	2.374
			0.000			2" Ice	36.770	36.770	3.530
			0.000			No Ice	4.090	2.860	0.077
						1/2" Ice	4.480	3.230	0.127
APXVTM14-ALU-I20 w/ Mount Pipe	B	From Leg	4.000	0.000	138.000	1" Ice	4.880	3.610	0.185
			0.000			2" Ice	5.710	4.400	0.331
			0.000			No Ice	4.090	2.860	0.077
						1/2" Ice	4.480	3.230	0.127
APXVTM14-ALU-I20 w/ Mount Pipe	C	From Leg	4.000	0.000	138.000	1" Ice	4.880	3.610	0.185
			0.000			2" Ice	5.710	4.400	0.331
			0.000			No Ice	4.090	2.860	0.077
						1/2" Ice	4.480	3.230	0.127
NNVV-65B-R4 w/ Mount Pipe	A	From Leg	4.000	0.000	138.000	1" Ice	4.880	3.610	0.185
			0.000			2" Ice	5.710	4.400	0.331
			0.000			No Ice	7.550	4.230	0.110
						1/2" Ice	8.040	4.670	0.197
NNVV-65B-R4 w/ Mount Pipe	B	From Leg	4.000	0.000	138.000	1" Ice	8.530	5.120	0.296
			0.000			2" Ice	9.560	6.050	0.529
			0.000			No Ice	7.550	4.230	0.110
						1/2" Ice	8.040	4.670	0.197
NNVV-65B-R4 w/ Mount Pipe	C	From Leg	4.000	0.000	138.000	1" Ice	8.530	5.120	0.296
			0.000			2" Ice	9.560	6.050	0.529
			0.000			No Ice	7.550	4.230	0.110
						1/2" Ice	8.040	4.670	0.197
FZHN	A	From Leg	4.000	0.000	138.000	1" Ice	8.530	5.120	0.296
			0.000			2" Ice	9.560	6.050	0.529
			0.000			No Ice	2.020	0.607	0.044
						1/2" Ice	2.197	0.715	0.058
FZHN	B	From Leg	4.000	0.000	138.000	1" Ice	2.381	0.829	0.075
			0.000			2" Ice	2.772	1.089	0.116
			0.000			No Ice	2.020	0.607	0.044
						1/2" Ice	2.197	0.715	0.058
FZHN	C	From Leg	4.000	0.000	138.000	1" Ice	2.381	0.829	0.075
			0.000			2" Ice	2.772	1.089	0.116
			0.000			No Ice	2.020	0.607	0.044
						1/2" Ice	2.197	0.715	0.058

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Client
 Crown Castle

Designed by
 GURUPRASAD

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight	
			Horz	Lateral						
			Vert		°	ft	ft ²	ft ²	K	
			ft	ft						
			ft							
(2) RRH2X50-800	A	From Leg	0.000				1" Ice	2.381	0.829	0.075
			4.000	0.000	138.000	2" Ice	2.772	1.089	0.116	
			0.000			No Ice	1.701	1.282	0.053	
			0.000			1/2" Ice	1.864	1.428	0.070	
			0.000			1" Ice	2.035	1.580	0.090	
(2) RRH2X50-800	B	From Leg	4.000	0.000	138.000	2" Ice	2.398	1.908	0.138	
			0.000			No Ice	1.701	1.282	0.053	
			0.000			1/2" Ice	1.864	1.428	0.070	
			0.000			1" Ice	2.035	1.580	0.090	
			0.000			2" Ice	2.398	1.908	0.138	
(2) RRH2X50-800	C	From Leg	4.000	0.000	138.000	No Ice	1.701	1.282	0.053	
			0.000			1/2" Ice	1.864	1.428	0.070	
			0.000			1" Ice	2.035	1.580	0.090	
			0.000			2" Ice	2.398	1.908	0.138	
			0.000			No Ice	1.701	1.282	0.053	
PCS 1900MHZ 4X45W-65MHZ	A	From Leg	4.000	0.000	138.000	1/2" Ice	1.864	1.428	0.070	
			0.000			1" Ice	2.035	1.580	0.090	
			0.000			2" Ice	2.398	1.908	0.138	
			0.000			No Ice	1.701	1.282	0.053	
			0.000			1/2" Ice	1.864	1.428	0.070	
PCS 1900MHZ 4X45W-65MHZ	B	From Leg	4.000	0.000	138.000	1" Ice	2.035	1.580	0.090	
			0.000			2" Ice	2.398	1.908	0.138	
			0.000			No Ice	1.701	1.282	0.053	
			0.000			1/2" Ice	1.864	1.428	0.070	
			0.000			1" Ice	2.035	1.580	0.090	
PCS 1900MHZ 4X45W-65MHZ	C	From Leg	4.000	0.000	138.000	2" Ice	2.398	1.908	0.138	
			0.000			No Ice	1.701	1.282	0.053	
			0.000			1/2" Ice	1.864	1.428	0.070	
			0.000			1" Ice	2.035	1.580	0.090	
			0.000			2" Ice	2.398	1.908	0.138	
4' x 3" Pipe Mount	B	From Leg	4.000	0.000	138.000	No Ice	1.000	1.000	0.029	
			0.000			1/2" Ice	1.248	1.248	0.038	
			0.000			1" Ice	1.505	1.505	0.050	
			0.000			2" Ice	2.046	2.046	0.083	
			0.000			No Ice	1.000	1.000	0.029	
4' x 3" Pipe Mount	C	From Leg	4.000	0.000	138.000	1/2" Ice	1.248	1.248	0.038	
			0.000			1" Ice	1.505	1.505	0.050	
			0.000			2" Ice	2.046	2.046	0.083	
			0.000			No Ice	1.000	1.000	0.029	
			0.000			1/2" Ice	1.248	1.248	0.038	
(2) 6' x 2" Mount Pipe	A	From Leg	4.000	0.000	138.000	1" Ice	1.505	1.505	0.050	
			0.000			2" Ice	2.046	2.046	0.083	
			0.000			No Ice	1.425	1.425	0.022	
			0.000			1/2" Ice	1.925	1.925	0.033	
			0.000			1" Ice	2.294	2.294	0.048	
(2) 6' x 2" Mount Pipe	B	From Leg	4.000	0.000	138.000	2" Ice	3.060	3.060	0.090	
			0.000			No Ice	1.425	1.425	0.022	
			0.000			1/2" Ice	1.925	1.925	0.033	
			0.000			1" Ice	2.294	2.294	0.048	
			0.000			2" Ice	3.060	3.060	0.090	
(2) 6' x 2" Mount Pipe	C	From Leg	4.000	0.000	138.000	No Ice	1.425	1.425	0.022	
			0.000			1/2" Ice	1.925	1.925	0.033	
			0.000			1" Ice	2.294	2.294	0.048	
			0.000			2" Ice	3.060	3.060	0.090	
			0.000			No Ice	1.425	1.425	0.022	
6' x 2" Mount Pipe	A	From Leg	4.000	0.000	138.000	1/2" Ice	1.925	1.925	0.033	
			0.000			1" Ice	2.294	2.294	0.048	
			0.000			2" Ice	3.060	3.060	0.090	
			0.000			No Ice	1.425	1.425	0.022	
			0.000			1/2" Ice	1.925	1.925	0.033	
6' x 2" Mount Pipe	B	From Leg	4.000	0.000	138.000	1" Ice	2.294	2.294	0.048	
			0.000			2" Ice	3.060	3.060	0.090	
			0.000			No Ice	1.425	1.425	0.022	
			0.000			1/2" Ice	1.925	1.925	0.033	
			0.000			1" Ice	2.294	2.294	0.048	
6' x 2" Mount Pipe	C	From Leg	4.000	0.000	138.000	2" Ice	3.060	3.060	0.090	
			0.000			No Ice	1.425	1.425	0.022	
			0.000			1/2" Ice	1.925	1.925	0.033	
			0.000			1" Ice	2.294	2.294	0.048	
			0.000			2" Ice	3.060	3.060	0.090	

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	Client Crown Castle	Designed by GURUPRASAD

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Lateral					
Platform Mount [LP 404-1]	C	None			0.000	138.000	2" Ice 3.060 No Ice 24.600	3.060 24.600	0.090 2.043
							1/2" Ice 31.630 1" Ice 38.370 2" Ice 51.530	31.630 38.370 51.530	2.600 3.288 5.058
* 7770.00 w/ Mount Pipe	A	From Leg	4.000 0.000 0.000		0.000	128.000	No Ice 5.746 1/2" Ice 6.179 1" Ice 6.607 2" Ice 7.488	4.254 5.014 5.711 7.155	0.055 0.103 0.157 0.287
7770.00 w/ Mount Pipe	B	From Leg	4.000 0.000 0.000		0.000	128.000	No Ice 5.746 1/2" Ice 6.179 1" Ice 6.607 2" Ice 7.488	4.254 5.014 5.711 7.155	0.055 0.103 0.157 0.287
7770.00 w/ Mount Pipe	C	From Leg	4.000 0.000 0.000		0.000	128.000	No Ice 5.746 1/2" Ice 6.179 1" Ice 6.607 2" Ice 7.488	4.254 5.014 5.711 7.155	0.055 0.103 0.157 0.287
RRUS 11 B12	A	From Leg	4.000 0.000 0.000		0.000	128.000	No Ice 2.833 1/2" Ice 3.043 1" Ice 3.259 2" Ice 3.715	1.182 1.330 1.485 1.826	0.051 0.072 0.095 0.153
RRUS 11 B12	B	From Leg	4.000 0.000 0.000		0.000	128.000	No Ice 2.833 1/2" Ice 3.043 1" Ice 3.259 2" Ice 3.715	1.182 1.330 1.485 1.826	0.051 0.072 0.095 0.153
RRUS 11 B12	C	From Leg	4.000 0.000 0.000		0.000	128.000	No Ice 2.833 1/2" Ice 3.043 1" Ice 3.259 2" Ice 3.715	1.182 1.330 1.485 1.826	0.051 0.072 0.095 0.153
DC6-48-60-18-8F	A	From Leg	4.000 0.000 0.000		0.000	128.000	No Ice 1.212 1/2" Ice 1.892 1" Ice 2.105 2" Ice 2.570	1.212 1.892 2.105 2.570	0.033 0.055 0.080 0.138
HPA-65R-BUU-H6 w/ Mount Pipe	A	From Leg	4.000 0.000 0.000		0.000	128.000	No Ice 9.220 1/2" Ice 9.980 1" Ice 10.760 2" Ice 12.360	6.250 6.960 7.700 9.220	0.074 0.143 0.224 0.420
HPA-65R-BUU-H6 w/ Mount Pipe	B	From Leg	4.000 0.000 0.000		0.000	128.000	No Ice 9.220 1/2" Ice 9.980 1" Ice 10.760 2" Ice 12.360	6.250 6.960 7.700 9.220	0.074 0.143 0.224 0.420
HPA-65R-BUU-H6 w/ Mount Pipe	C	From Leg	4.000 0.000 0.000		0.000	128.000	No Ice 9.220 1/2" Ice 9.980 1" Ice 10.760 2" Ice 12.360	6.250 6.960 7.700 9.220	0.074 0.143 0.224 0.420
HPA65R-BU6A w/ Mount Pipe	A	From Leg	4.000 0.000 0.000		0.000	128.000	No Ice 5.830 1/2" Ice 6.400 1" Ice 6.990 2" Ice 8.190	5.000 5.560 6.130 7.320	0.080 0.142 0.216 0.396
HPA65R-BU6A w/ Mount Pipe	B	From Leg	4.000 0.000 0.000		0.000	128.000	No Ice 5.830 1/2" Ice 6.400 1" Ice 6.990 2" Ice 8.190	5.000 5.560 6.130 7.320	0.080 0.142 0.216 0.396
HPA65R-BU6A w/ Mount Pipe	C	From Leg	4.000 0.000 0.000		0.000	128.000	No Ice 5.830 1/2" Ice 6.400 1" Ice 6.990	5.000 5.560 6.130	0.080 0.142 0.216

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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight	
			Horz	Vert						
			ft	ft	°	ft	ft ²	ft ²	K	
(2) 860 10025	A	From Leg	4.000	0.000	0.000	128.000	2" Ice	8.190	7.320	0.396
			0.000	No Ice			0.142	0.121	0.001	
			0.000	1/2" Ice			0.196	0.173	0.003	
				1" Ice			0.259	0.231	0.005	
(2) 860 10025	B	From Leg	4.000	0.000	0.000	128.000	2" Ice	0.408	0.376	0.014
			0.000	No Ice			0.142	0.121	0.001	
			0.000	1/2" Ice			0.196	0.173	0.003	
				1" Ice			0.259	0.231	0.005	
(2) 860 10025	C	From Leg	4.000	0.000	0.000	128.000	2" Ice	0.408	0.376	0.014
			0.000	No Ice			0.142	0.121	0.001	
			0.000	1/2" Ice			0.196	0.173	0.003	
				1" Ice			0.259	0.231	0.005	
TMABPD7823VG12A	A	From Leg	4.000	0.000	0.000	128.000	2" Ice	0.408	0.376	0.014
			0.000	No Ice			1.370	0.518	0.026	
			0.000	1/2" Ice			1.517	0.621	0.036	
				1" Ice			1.671	0.730	0.048	
TMABPD7823VG12A	B	From Leg	4.000	0.000	0.000	128.000	2" Ice	2.002	0.972	0.079
			0.000	No Ice			1.370	0.518	0.026	
			0.000	1/2" Ice			1.517	0.621	0.036	
				1" Ice			1.671	0.730	0.048	
TMABPD7823VG12A	C	From Leg	4.000	0.000	0.000	128.000	2" Ice	2.002	0.972	0.079
			0.000	No Ice			1.370	0.518	0.026	
			0.000	1/2" Ice			1.517	0.621	0.036	
				1" Ice			1.671	0.730	0.048	
782 10254	A	From Leg	4.000	0.000	0.000	128.000	2" Ice	2.002	0.972	0.079
			0.000	No Ice			0.142	0.080	0.003	
			0.000	1/2" Ice			0.194	0.122	0.004	
				1" Ice			0.252	0.173	0.007	
782 10254	B	From Leg	4.000	0.000	0.000	128.000	2" Ice	0.392	0.297	0.014
			0.000	No Ice			0.142	0.080	0.003	
			0.000	1/2" Ice			0.194	0.122	0.004	
				1" Ice			0.252	0.173	0.007	
782 10254	C	From Leg	4.000	0.000	0.000	128.000	2" Ice	0.392	0.297	0.014
			0.000	No Ice			0.142	0.080	0.003	
			0.000	1/2" Ice			0.194	0.122	0.004	
				1" Ice			0.252	0.173	0.007	
RRUS 32 B2	A	From Leg	4.000	0.000	0.000	128.000	2" Ice	0.392	0.297	0.014
			0.000	No Ice			2.731	1.668	0.053	
			0.000	1/2" Ice			2.953	1.855	0.074	
				1" Ice			3.182	2.049	0.098	
RRUS 32 B2	B	From Leg	4.000	0.000	0.000	128.000	2" Ice	3.663	2.458	0.157
			0.000	No Ice			2.731	1.668	0.053	
			0.000	1/2" Ice			2.953	1.855	0.074	
				1" Ice			3.182	2.049	0.098	
RRUS 32 B2	C	From Leg	4.000	0.000	0.000	128.000	2" Ice	3.663	2.458	0.157
			0.000	No Ice			2.731	1.668	0.053	
			0.000	1/2" Ice			2.953	1.855	0.074	
				1" Ice			3.182	2.049	0.098	
(2) L 2.5x2.5x3/16x4.75'	A	From Leg	2.000	0.000	-1.500	128.000	2" Ice	3.663	2.458	0.157
			0.000	No Ice			1.250	0.005	0.025	
				1/2" Ice			1.601	0.024	0.032	
				1" Ice			1.959	0.049	0.044	
(2) L 2.5x2.5x3/16x4.75'	B	From Leg	2.000	0.000	-1.500	128.000	2" Ice	2.698	0.123	0.081
			0.000	No Ice			1.250	0.005	0.025	
				1/2" Ice			1.601	0.024	0.032	
				1" Ice			1.959	0.049	0.044	
						2" Ice	2.698	0.123	0.081	

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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight	
			Horz Lateral	Vert						ft
(2) L 2.5x2.5x3/16x4.75'	C	From Leg	2.000	0.000	0.000	128.000	No Ice	1.250	0.005	0.025
			0.000				1/2" Ice	1.601	0.024	0.032
			-1.500				1" Ice	1.959	0.049	0.044
							2" Ice	2.698	0.123	0.081
Side Arm Mount [SO 102-3]	C	None			0.000	125.000	No Ice	3.600	3.600	0.075
							1/2" Ice	4.180	4.180	0.105
							1" Ice	4.750	4.750	0.135
							2" Ice	5.900	5.900	0.195
Platform Mount [LP 403-1]	C	None			0.000	128.000	No Ice	18.940	18.940	1.500
							1/2" Ice	23.310	23.310	1.902
							1" Ice	27.740	27.740	2.374
							2" Ice	36.770	36.770	3.530
* (2) 4' x 2" Pipe Mount	A	From Leg	2.000	0.000	0.000	130.000	No Ice	0.785	0.785	0.029
			0.000				1/2" Ice	1.028	1.028	0.035
			0.000				1" Ice	1.281	1.281	0.044
							2" Ice	1.814	1.814	0.072
4' x 2" Pipe Mount	B	From Leg	2.000	0.000	0.000	130.000	No Ice	0.785	0.785	0.029
			0.000				1/2" Ice	1.028	1.028	0.035
			0.000				1" Ice	1.281	1.281	0.044
							2" Ice	1.814	1.814	0.072
4' x 2" Pipe Mount	C	From Leg	2.000	0.000	0.000	130.000	No Ice	0.785	0.785	0.029
			0.000				1/2" Ice	1.028	1.028	0.035
			0.000				1" Ice	1.281	1.281	0.044
							2" Ice	1.814	1.814	0.072
5' horizontal x 2.5" Pipe Mount	A	From Leg	2.000	0.000	0.000	130.000	No Ice	1.250	1.250	0.115
			0.000				1/2" Ice	1.601	1.601	0.245
			0.000				1" Ice	1.959	1.959	0.384
							2" Ice	2.698	2.698	0.686
Side Arm Mount [SO 102-3]	C	None			0.000	130.000	No Ice	3.600	3.600	0.075
							1/2" Ice	4.180	4.180	0.105
							1" Ice	4.750	4.750	0.135
							2" Ice	5.900	5.900	0.195

*

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets:		Azimuth Adjustment	3 dB Beam Width	Elevation	Outside Diameter	Aperture Area	Weight	
				Horz Lateral	Vert							ft
Andrew VHLP1-23-DW1	C	Paraboloid w/Shroud (HP)	From Leg	4.000	0.000	30.000		138.000	1.275	No Ice	1.280	0.000
				0.000						1/2" Ice	1.450	0.000
				0.000						1" Ice	1.630	0.000
										2" Ice	2.031	0.000

*

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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
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
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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
L1	147.083 - 136.583	Pole	Max Tension	39	0.000	-0.000	-0.000
			Max. Compression	26	-10.102	-0.017	-0.070
			Max. Mx	8	-3.294	-35.211	0.029
			Max. My	2	-3.295	-0.031	35.199
			Max. Vy	8	5.169	-26.481	-0.002
			Max. Vx	2	-5.190	-0.034	26.378
			Max. Torque	11			-0.315
L2	136.583 - 101.083	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-31.685	-0.057	3.013
			Max. Mx	8	-14.187	-501.723	0.852
			Max. My	2	-14.195	0.092	500.780
			Max. Vy	8	16.342	-501.723	0.852
			Max. Vx	2	-16.296	0.092	500.780
			Max. Torque	11			-0.494
L3	101.083 - 66.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-40.129	-0.089	4.071
			Max. Mx	8	-20.571	-1095.732	1.246
			Max. My	2	-20.576	0.195	1093.412
			Max. Vy	8	18.976	-1095.732	1.246
			Max. Vx	2	-18.930	0.195	1093.412
			Max. Torque	2			0.267
L4	66.5 - 32.8333	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-51.012	-0.128	5.100
			Max. Mx	8	-29.043	-1765.597	1.698
			Max. My	2	-29.045	0.247	1761.995
			Max. Vy	8	21.796	-1765.597	1.698
			Max. Vx	2	-21.751	0.247	1761.995
			Max. Torque	2			0.266
L5	32.8333 - 0	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-65.388	-0.181	6.259
			Max. Mx	8	-40.582	-2638.445	2.284
			Max. My	2	-40.582	0.253	2633.471
			Max. Vy	8	24.630	-2638.445	2.284
			Max. Vx	2	-24.587	0.253	2633.471
			Max. Torque	2			0.265

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	27	65.388	0.002	6.453
	Max. H _x	20	40.598	24.587	0.000
	Max. H _z	2	40.598	0.007	24.560
	Max. M _x	2	2633.471	0.007	24.560
	Max. M _z	8	2638.445	-24.604	0.000
	Max. Torsion	2	0.265	0.007	24.560
	Min. Vert	5	30.448	-12.323	21.258
	Min. H _x	8	40.598	-24.604	0.000
	Min. H _z	14	40.598	0.007	-24.560
	Min. M _x	14	-2628.937	0.007	-24.560
	Min. M _z	20	-2634.289	24.587	0.000
	Min. Torsion	14	-0.231	0.007	-24.560

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Tower Mast Reaction Summary

Load Combination	Vertical	Shear _x	Shear _z	Overturing Moment, M _x	Overturing Moment, M _z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
Dead Only	33.832	0.000	-0.000	-1.809	-0.674	0.000
1.2 Dead+1.0 Wind 0 deg - No Ice	40.598	-0.007	-24.560	-2633.471	0.253	-0.265
0.9 Dead+1.0 Wind 0 deg - No Ice	30.448	-0.007	-24.560	-2589.066	0.456	-0.264
1.2 Dead+1.0 Wind 30 deg - No Ice	40.598	12.323	-21.258	-2279.193	-1322.841	-0.118
0.9 Dead+1.0 Wind 30 deg - No Ice	30.448	12.323	-21.258	-2240.686	-1300.596	-0.121
1.2 Dead+1.0 Wind 60 deg - No Ice	40.598	21.316	-12.275	-1317.074	-2286.275	-0.088
0.9 Dead+1.0 Wind 60 deg - No Ice	30.448	21.316	-12.275	-1294.581	-2247.991	-0.094
1.2 Dead+1.0 Wind 90 deg - No Ice	40.598	24.604	0.000	-2.284	-2638.445	-0.013
0.9 Dead+1.0 Wind 90 deg - No Ice	30.448	24.604	0.000	-1.677	-2594.303	-0.020
1.2 Dead+1.0 Wind 120 deg - No Ice	40.598	21.316	12.275	1312.513	-2286.291	0.103
0.9 Dead+1.0 Wind 120 deg - No Ice	30.448	21.316	12.275	1291.233	-2248.002	0.096
1.2 Dead+1.0 Wind 150 deg - No Ice	40.598	12.323	21.258	2274.649	-1322.859	0.204
0.9 Dead+1.0 Wind 150 deg - No Ice	30.448	12.323	21.258	2237.349	-1300.608	0.200
1.2 Dead+1.0 Wind 180 deg - No Ice	40.598	-0.007	24.560	2628.937	0.254	0.231
0.9 Dead+1.0 Wind 180 deg - No Ice	30.448	-0.007	24.560	2585.736	0.457	0.230
1.2 Dead+1.0 Wind 210 deg - No Ice	40.598	-12.307	21.263	2275.373	1318.791	0.181
0.9 Dead+1.0 Wind 210 deg - No Ice	30.448	-12.307	21.263	2238.056	1297.031	0.184
1.2 Dead+1.0 Wind 240 deg - No Ice	40.598	-21.298	12.271	1311.938	2282.049	0.119
0.9 Dead+1.0 Wind 240 deg - No Ice	30.448	-21.298	12.271	1290.665	2244.250	0.125
1.2 Dead+1.0 Wind 270 deg - No Ice	40.598	-24.587	0.000	-2.283	2634.289	0.052
0.9 Dead+1.0 Wind 270 deg - No Ice	30.448	-24.587	0.000	-1.676	2590.634	0.059
1.2 Dead+1.0 Wind 300 deg - No Ice	40.598	-21.298	-12.271	-1316.497	2282.034	-0.054
0.9 Dead+1.0 Wind 300 deg - No Ice	30.448	-21.298	-12.271	-1294.012	2244.240	-0.048
1.2 Dead+1.0 Wind 330 deg - No Ice	40.598	-12.307	-21.263	-2279.916	1318.775	-0.193
0.9 Dead+1.0 Wind 330 deg - No Ice	30.448	-12.307	-21.263	-2241.392	1297.020	-0.189
1.2 Dead+1.0 Ice+1.0 Temp	65.388	0.000	-0.000	-6.259	-0.181	-0.000
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	65.388	-0.002	-6.453	-728.063	0.087	-0.069
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	65.388	3.236	-5.586	-630.943	-362.602	-0.034
1.2 Dead+1.0 Wind 60 deg+1.0	65.388	5.599	-3.225	-367.030	-626.847	-0.025

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Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
Ice+1.0 Temp						
1.2 Dead+1.0 Wind 90 deg+1.0	65.388	6.463	-0.000	-6.385	-723.454	-0.004
Ice+1.0 Temp						
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	65.388	5.599	3.225	354.261	-626.851	0.026
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	65.388	3.236	5.586	618.179	-362.607	0.052
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	65.388	-0.002	6.453	715.302	0.087	0.061
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	65.388	-3.233	5.587	618.355	361.652	0.049
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	65.388	-5.595	3.224	354.117	625.850	0.033
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	65.388	-6.459	-0.000	-6.385	722.472	0.013
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	65.388	-5.595	-3.224	-366.885	625.846	-0.015
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	65.388	-3.233	-5.587	-631.119	361.648	-0.050
Dead+Wind 0 deg - Service	33.832	-0.002	-5.330	-567.829	-0.461	-0.059
Dead+Wind 30 deg - Service	33.832	2.674	-4.613	-491.638	-285.052	-0.026
Dead+Wind 60 deg - Service	33.832	4.625	-2.664	-284.693	-492.286	-0.020
Dead+Wind 90 deg - Service	33.832	5.339	-0.000	-1.885	-568.026	-0.004
Dead+Wind 120 deg - Service	33.832	4.625	2.664	280.923	-492.286	0.022
Dead+Wind 150 deg - Service	33.832	2.674	4.613	487.869	-285.053	0.045
Dead+Wind 180 deg - Service	33.832	-0.002	5.330	564.060	-0.461	0.051
Dead+Wind 210 deg - Service	33.832	-2.671	4.614	488.022	283.145	0.041
Dead+Wind 240 deg - Service	33.832	-4.622	2.663	280.796	490.337	0.027
Dead+Wind 270 deg - Service	33.832	-5.335	-0.000	-1.885	566.094	0.012
Dead+Wind 300 deg - Service	33.832	-4.622	-2.663	-284.566	490.336	-0.011
Dead+Wind 330 deg - Service	33.832	-2.671	-4.614	-491.791	283.145	-0.043

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	0.000	-33.832	0.000	0.000	33.832	0.000	0.000%
2	-0.007	-40.598	-24.560	0.007	40.598	24.560	0.000%
3	-0.007	-30.448	-24.560	0.007	30.448	24.560	0.000%
4	12.323	-40.598	-21.258	-12.323	40.598	21.258	0.000%
5	12.323	-30.448	-21.258	-12.323	30.448	21.258	0.000%
6	21.316	-40.598	-12.275	-21.316	40.598	12.275	0.000%
7	21.316	-30.448	-12.275	-21.316	30.448	12.275	0.000%
8	24.604	-40.598	0.000	-24.604	40.598	0.000	0.000%
9	24.604	-30.448	0.000	-24.604	30.448	0.000	0.000%
10	21.316	-40.598	12.275	-21.316	40.598	-12.275	0.000%
11	21.316	-30.448	12.275	-21.316	30.448	-12.275	0.000%
12	12.323	-40.598	21.258	-12.323	40.598	-21.258	0.000%
13	12.323	-30.448	21.258	-12.323	30.448	-21.258	0.000%
14	-0.007	-40.598	24.560	0.007	40.598	-24.560	0.000%
15	-0.007	-30.448	24.560	0.007	30.448	-24.560	0.000%
16	-12.307	-40.598	21.263	12.307	40.598	-21.263	0.000%
17	-12.307	-30.448	21.263	12.307	30.448	-21.263	0.000%
18	-21.298	-40.598	12.271	21.298	40.598	-12.271	0.000%
19	-21.298	-30.448	12.271	21.298	30.448	-12.271	0.000%
20	-24.587	-40.598	0.000	24.587	40.598	0.000	0.000%
21	-24.587	-30.448	0.000	24.587	30.448	0.000	0.000%

<p>tnxTower</p> <p>B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	<p>Job 126632.009.01 - Wallingford/ I-91/ X14/ S, CT (BU# 828915)</p>	<p>Page 16 of 20</p>
	<p>Project</p>	<p>Date 18:43:05 03/09/21</p>
	<p>Client Crown Castle</p>	<p>Designed by GURUPRASAD</p>

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
22	-21.298	-40.598	-12.271	21.298	40.598	12.271	0.000%
23	-21.298	-30.448	-12.271	21.298	30.448	12.271	0.000%
24	-12.307	-40.598	-21.263	12.307	40.598	21.263	0.000%
25	-12.307	-30.448	-21.263	12.307	30.448	21.263	0.000%
26	0.000	-65.388	0.000	-0.000	65.388	0.000	0.000%
27	-0.002	-65.388	-6.453	0.002	65.388	6.453	0.000%
28	3.236	-65.388	-5.586	-3.236	65.388	5.586	0.000%
29	5.599	-65.388	-3.225	-5.599	65.388	3.225	0.000%
30	6.463	-65.388	0.000	-6.463	65.388	0.000	0.000%
31	5.599	-65.388	3.225	-5.599	65.388	-3.225	0.000%
32	3.236	-65.388	5.586	-3.236	65.388	-5.586	0.000%
33	-0.002	-65.388	6.453	0.002	65.388	-6.453	0.000%
34	-3.233	-65.388	5.587	3.233	65.388	-5.587	0.000%
35	-5.595	-65.388	3.224	5.595	65.388	-3.224	0.000%
36	-6.459	-65.388	0.000	6.459	65.388	0.000	0.000%
37	-5.595	-65.388	-3.224	5.595	65.388	3.224	0.000%
38	-3.233	-65.388	-5.587	3.233	65.388	5.587	0.000%
39	-0.002	-33.832	-5.330	0.002	33.832	5.330	0.000%
40	2.674	-33.832	-4.613	-2.674	33.832	4.613	0.000%
41	4.625	-33.832	-2.664	-4.625	33.832	2.664	0.000%
42	5.339	-33.832	0.000	-5.339	33.832	0.000	0.000%
43	4.625	-33.832	2.664	-4.625	33.832	-2.664	0.000%
44	2.674	-33.832	4.613	-2.674	33.832	-4.613	0.000%
45	-0.002	-33.832	5.330	0.002	33.832	-5.330	0.000%
46	-2.671	-33.832	4.614	2.671	33.832	-4.614	0.000%
47	-4.622	-33.832	2.663	4.622	33.832	-2.663	0.000%
48	-5.335	-33.832	0.000	5.335	33.832	0.000	0.000%
49	-4.622	-33.832	-2.663	4.622	33.832	2.663	0.000%
50	-2.671	-33.832	-4.614	2.671	33.832	4.614	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	0.00010873
3	Yes	5	0.00000001	0.00005031
4	Yes	6	0.00000001	0.00068604
5	Yes	6	0.00000001	0.00021311
6	Yes	6	0.00000001	0.00068786
7	Yes	6	0.00000001	0.00021386
8	Yes	5	0.00000001	0.00005020
9	Yes	5	0.00000001	0.00001925
10	Yes	6	0.00000001	0.00068831
11	Yes	6	0.00000001	0.00021439
12	Yes	6	0.00000001	0.00068132
13	Yes	6	0.00000001	0.00021179
14	Yes	5	0.00000001	0.00009780
15	Yes	5	0.00000001	0.00004489
16	Yes	6	0.00000001	0.00068672
17	Yes	6	0.00000001	0.00021403
18	Yes	6	0.00000001	0.00068259
19	Yes	6	0.00000001	0.00021255
20	Yes	5	0.00000001	0.00005172
21	Yes	5	0.00000001	0.00001940
22	Yes	6	0.00000001	0.00068360

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23	Yes	6	0.00000001	0.00021255
24	Yes	6	0.00000001	0.00069026
25	Yes	6	0.00000001	0.00021490
26	Yes	4	0.00000001	0.00011627
27	Yes	6	0.00000001	0.00028337
28	Yes	6	0.00000001	0.00045811
29	Yes	6	0.00000001	0.00046032
30	Yes	6	0.00000001	0.00028043
31	Yes	6	0.00000001	0.00044217
32	Yes	6	0.00000001	0.00044091
33	Yes	6	0.00000001	0.00027567
34	Yes	6	0.00000001	0.00044248
35	Yes	6	0.00000001	0.00043945
36	Yes	6	0.00000001	0.00028001
37	Yes	6	0.00000001	0.00045816
38	Yes	6	0.00000001	0.00045956
39	Yes	4	0.00000001	0.00022246
40	Yes	5	0.00000001	0.00010682
41	Yes	5	0.00000001	0.00010787
42	Yes	4	0.00000001	0.00021421
43	Yes	5	0.00000001	0.00010677
44	Yes	5	0.00000001	0.00010354
45	Yes	4	0.00000001	0.00021704
46	Yes	5	0.00000001	0.00010594
47	Yes	5	0.00000001	0.00010389
48	Yes	4	0.00000001	0.00021294
49	Yes	5	0.00000001	0.00010577
50	Yes	5	0.00000001	0.00010879

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	147.083 - 136.583	26.824	41	1.779	0.001
L2	138.583 - 101.083	23.673	41	1.756	0.001
L3	104 - 66.5	12.400	41	1.264	0.000
L4	70.3333 - 32.8333	5.292	41	0.741	0.000
L5	37.5 - 0	1.466	41	0.364	0.000

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
148.000	ERICSSON AIR 21 B2A B4P w/ Mount Pipe	41	26.824	1.779	0.001	13703
138.000	Andrew VHLP1-23-DW1	41	23.459	1.753	0.001	8126
130.000	(2) 4' x 2" Pipe Mount	41	20.590	1.684	0.001	5655
128.000	7770.00 w/ Mount Pipe	41	19.893	1.660	0.001	5289
125.000	Side Arm Mount [SO 102-3]	41	18.864	1.620	0.001	4821

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Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	147.083 - 136.583	124.534	8	8.278	0.007
L2	138.583 - 101.083	109.922	8	8.172	0.006
L3	104 - 66.5	57.610	8	5.883	0.002
L4	70.3333 - 32.8333	24.585	8	3.444	0.001
L5	37.5 - 0	6.810	8	1.690	0.000

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
148.000	ERICSSON AIR 21 B2A B4P w/ Mount Pipe	8	124.534	8.278	0.007	3063
138.000	Andrew VHLPI-23-DW1	8	108.932	8.158	0.006	1814
130.000	(2) 4' x 2" Pipe Mount	8	95.624	7.837	0.005	1257
128.000	7770.00 w/ Mount Pipe	8	92.388	7.725	0.005	1175
125.000	Side Arm Mount [SO 102-3]	8	87.614	7.539	0.004	1069

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
L1	147.083 - 136.583 (1)	TP17.688x15x0.25	10.500	0.000	0.0	13.431	-3.293	785.682	0.004
L2	136.583 - 101.083 (2)	TP26x16.676x0.25	37.500	0.000	0.0	19.857	-14.188	1161.640	0.012
L3	101.083 - 66.5 (3)	TP34.063x24.775x0.313	37.500	0.000	0.0	32.534	-20.571	1903.240	0.011
L4	66.5 - 32.8333 (4)	TP41.75x32.488x0.375	37.500	0.000	0.0	47.875	-29.043	2800.670	0.010
L5	32.8333 - 0 (5)	TP49.063x39.847x0.375	37.500	0.000	0.0	57.950	-40.582	3390.090	0.012

Pole Bending Design Data

Section No.	Elevation ft	Size	M _{ux} kip-ft	φM _{ux} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M _{uy} kip-ft	φM _{uy} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L1	147.083 - 136.583 (1)	TP17.688x15x0.25	35.220	344.921	0.102	0.000	344.921	0.000
L2	136.583 -	TP26x16.676x0.25	501.882	748.000	0.671	0.000	748.000	0.000

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Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L3	101.083 (2) 101.083 - 66.5	TP34.063x24.775x0.313	1095.825	1587.217	0.690	0.000	1587.217	0.000
L4	66.5 - 32.8333 (3) 66.5 - 32.8333	TP41.75x32.488x0.375	1765.658	2847.767	0.620	0.000	2847.767	0.000
L5	32.8333 - 0 (5) 32.8333 - 0 (5)	TP49.063x39.847x0.375	2638.508	3935.250	0.670	0.000	3935.250	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	147.083 - 136.583 (1) 147.083 - 136.583 (1)	TP17.688x15x0.25	4.155	235.705	0.018	0.000	349.375	0.000
L2	136.583 - 101.083 (2) 136.583 - 101.083 (2)	TP26x16.676x0.25	16.337	348.493	0.047	0.089	763.737	0.000
L3	101.083 - 66.5 (3) 101.083 - 66.5 (3)	TP34.063x24.775x0.313	18.970	570.973	0.033	0.088	1640.125	0.000
L4	66.5 - 32.8333 (4) 66.5 - 32.8333 (4)	TP41.75x32.488x0.375	21.790	840.201	0.026	0.088	2959.592	0.000
L5	32.8333 - 0 (5) 32.8333 - 0 (5)	TP49.063x39.847x0.375	24.624	1017.030	0.024	0.088	4336.408	0.000

Pole Interaction Design Data

Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	147.083 - 136.583 (1) 147.083 - 136.583 (1)	0.004	0.102	0.000	0.018	0.000	0.107	1.050	4.8.2 ✓
L2	136.583 - 101.083 (2) 136.583 - 101.083 (2)	0.012	0.671	0.000	0.047	0.000	0.685	1.050	4.8.2 ✓
L3	101.083 - 66.5 (3) 101.083 - 66.5 (3)	0.011	0.690	0.000	0.033	0.000	0.702	1.050	4.8.2 ✓
L4	66.5 - 32.8333 (4) 66.5 - 32.8333 (4)	0.010	0.620	0.000	0.026	0.000	0.631	1.050	4.8.2 ✓
L5	32.8333 - 0 (5) 32.8333 - 0 (5)	0.012	0.670	0.000	0.024	0.000	0.683	1.050	4.8.2 ✓

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Section Capacity Table

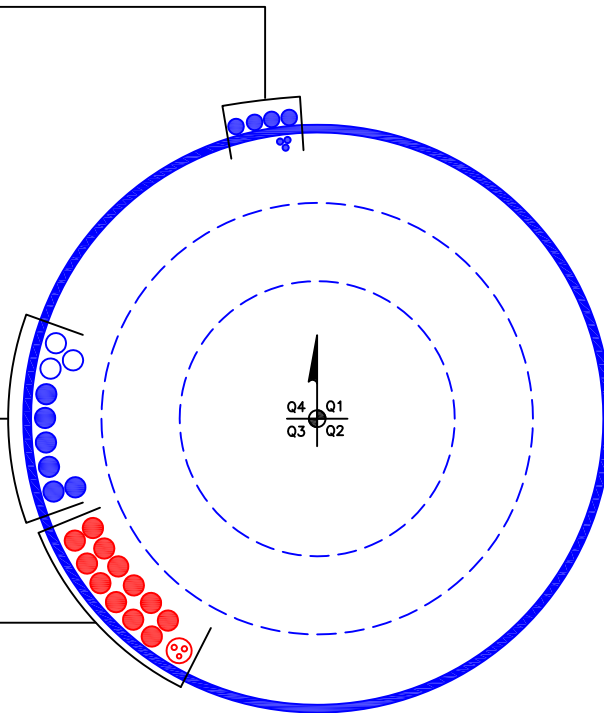
Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail	
L1	147.083 - 136.583	Pole	TP17.688x15x0.25	1	-3.293	824.966	10.2	Pass	
L2	136.583 - 101.083	Pole	TP26x16.676x0.25	2	-14.188	1219.722	65.3	Pass	
L3	101.083 - 66.5	Pole	TP34.063x24.775x0.313	3	-20.571	1998.402	66.9	Pass	
L4	66.5 - 32.8333	Pole	TP41.75x32.488x0.375	4	-29.043	2940.703	60.1	Pass	
L5	32.8333 - 0	Pole	TP49.063x39.847x0.375	5	-40.582	3559.594	65.1	Pass	
							Summary		
							Pole (L3)	66.9	Pass
							RATING =	66.9	Pass

APPENDIX B
BASE LEVEL DRAWING

(OTHER CONSIDERED EQUIPMENT)
(3) 1/2" TO 138 FT LEVEL
(4) 1-1/4" TO 138 FT LEVEL

(OTHER CONSIDERED EQUIPMENT)
(9) 1-5/8" TO 148 FT LEVEL

(PROPOSED EQUIPMENT CONFIGURATION)
(12) 1-5/8" TO 128 FT LEVEL
(PROPOSED EQUIPMENT CONFIGURATION--IN CONDUIT)
(1) 3/8" TO 128 FT LEVEL
(2) 7/16" TO 128 FT LEVEL



BUSINESS UNIT: 828915

APPENDIX C
ADDITIONAL CALCULATIONS

PROJECT	126632.009.01 - Wallingford/ I-91/ X14/ S, CT
SUBJECT	Pole Splice Check
DATE	03/09/21



Pole Lap Splice Analysis

Input - trnTower

REV H

Section	Tip Dia. (in)	Area (in ²)	I (in ⁴)	r (in)	C (in)	I/C (in ³)	J (in ⁴)	It/Q (In ²)	w (in)	w/t
L1	17.922	13.837	531.541	6.19	8.985	59.157	1063.782	6.92	2.673	10.692
L2	26.363	20.433	1711.654	9.141	13.208	129.592	3425.561	10.218	4.136	16.544
L3	34.54	33.476	4817.433	11.981	17.304	278.404	9641.206	16.741	5.445	17.424
L4	42.336	49.247	10650.982	14.688	21.209	502.192	21315.979	24.628	6.688	17.835
L5	49.762	57.95	17355.138	17.284	24.924	696.329	34733.112	28.981	7.975	21.267

Section	Lap Splice Length (in)	Number of Sides	Pole Grade (ksi)	Base Diameter (in)	Thickness (in)
L1	24	18	65	17.688	0.25
L2	35.004	18	65	26	0.25
L3	45.996	18	65	34.063	0.313
L4	56.004	18	65	41.75	0.375
L5					

Results

Section	Elevation (ft)	Inner Base Diameter (in)	1.5*Inner Base Diameter (in)	Results
L1	136.583	17.188	25.782	Not Adequate, See Below
L2	101.083	25.500	38.250	Not Adequate, See Below
L3	66.500	33.437	50.156	Not Adequate, See Below
L4	32.833	41.000	61.500	Not Adequate, See Below
L5				

TIA method - Pole shaft stress ratio for the installed slip splicelength

Section	Pu (k)	ΦPn (k)	Mu (k-ft)	ΦMn (k-ft)	Vu (k)	ΦVn (k)	F'y (ksi)	ISL in Terms of Inner Diam.	Stress Ratio of Splice
L1	3.923	725.542	62.207	328.283	4.155	217.662	82.550	1.396	18.60%
L2	14.741	1043.172	553.343	695.045	16.337	312.952	81.942	1.373	77.43%
L3	21.560	1714.731	1174.021	1479.205	18.970	514.419	80.907	1.376	76.92%
L4	30.479	2494.762	1874.288	2623.052	21.790	748.429	80.423	1.366	69.30%
L5					24.6239005				

Monopole Base Plate Connection

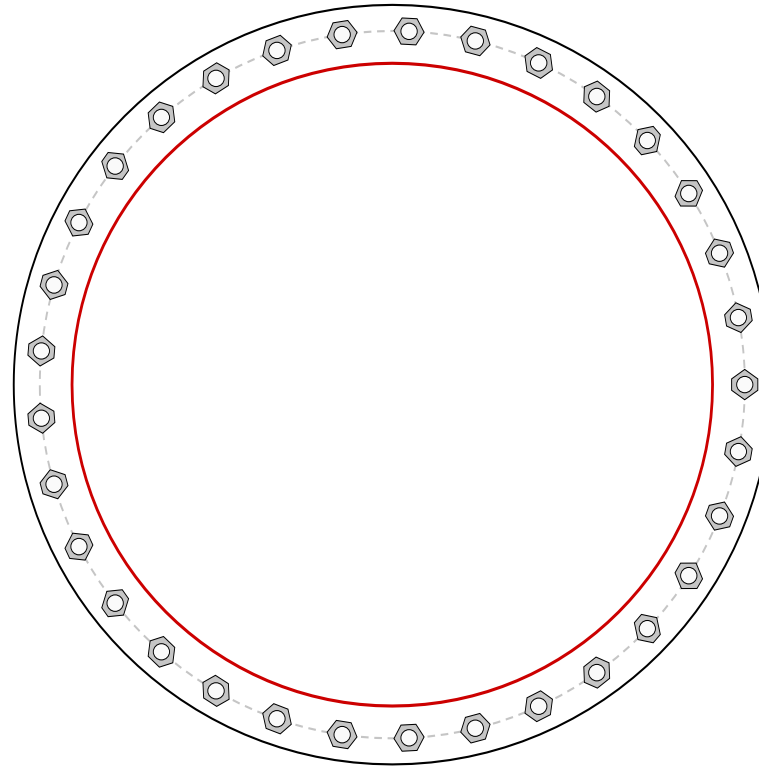


Site Info	
BU #	828915
Site Name	allingford/ I-91/ X14/ S
Order #	517093 Rev#0

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
l_{ar} (in)	2.5

Applied Loads	
Moment (kip-ft)	2638.51
Axial Force (kips)	40.58
Shear Force (kips)	24.62

*TIA-222-H Section 15.5 Applied



Connection Properties	Analysis Results																								
Anchor Rod Data <hr/> (33) 1-1/4" ϕ bolts (A687 N; $F_y=105$ ksi, $F_u=125$ ksi) on 54" BC <hr/> Base Plate Data 58" OD x 1.5" Plate (A572-50; $F_y=50$ ksi, $F_u=65$ ksi) <hr/> Stiffener Data N/A <hr/> Pole Data 49.0625" x 0.375" 18-sided pole (A572-65; $F_y=65$ ksi, $F_u=80$ ksi)	<table border="0"> <tr> <td colspan="3">Anchor Rod Summary</td> <td style="text-align: right;"><i>(units of kips, kip-in)</i></td> </tr> <tr> <td>$P_{u_c} = 72.29$</td> <td>$\phi P_{n_c} = 115.97$</td> <td></td> <td style="text-align: right;">Stress Rating</td> </tr> <tr> <td>$V_u = 0.75$</td> <td>$\phi V_n = 52.19$</td> <td></td> <td style="text-align: right;">63.1%</td> </tr> <tr> <td>$M_u = 1.21$</td> <td>$\phi M_n = 30.76$</td> <td></td> <td style="text-align: right;">Pass</td> </tr> </table> <table border="0"> <tr> <td colspan="2">Base Plate Summary</td> </tr> <tr> <td>Max Stress (ksi):</td> <td>-</td> </tr> <tr> <td>Allowable Stress (ksi):</td> <td>-</td> </tr> <tr> <td>Stress Rating:</td> <td>Pi rod OK</td> </tr> </table>	Anchor Rod Summary			<i>(units of kips, kip-in)</i>	$P_{u_c} = 72.29$	$\phi P_{n_c} = 115.97$		Stress Rating	$V_u = 0.75$	$\phi V_n = 52.19$		63.1%	$M_u = 1.21$	$\phi M_n = 30.76$		Pass	Base Plate Summary		Max Stress (ksi):	-	Allowable Stress (ksi):	-	Stress Rating:	Pi rod OK
Anchor Rod Summary			<i>(units of kips, kip-in)</i>																						
$P_{u_c} = 72.29$	$\phi P_{n_c} = 115.97$		Stress Rating																						
$V_u = 0.75$	$\phi V_n = 52.19$		63.1%																						
$M_u = 1.21$	$\phi M_n = 30.76$		Pass																						
Base Plate Summary																									
Max Stress (ksi):	-																								
Allowable Stress (ksi):	-																								
Stress Rating:	Pi rod OK																								

Pier and Pad Foundation



BU #: 828915
 Site Name: Wallingford/ I-91/ X
 App. Number: 517093 Rev#0

TIA-222 Revision: H
 Tower Type: Monopole

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

Superstructure Analysis Reactions		
Compression, P_{comp} :	40.6	kips
Base Shear, V_u_{comp} :	24.6	kips
Moment, M_u :	2638.51	ft-kips
Tower Height, H :	147.08	ft
BP Dist. Above Fdn, bp_{dist} :	3.75	in

Foundation Analysis Checks				
	Capacity	Demand	Rating*	Check
<i>Lateral (Sliding) (kips)</i>	315.72	24.60	7.4%	Pass
<i>Bearing Pressure (ksf)</i>	61.43	6.94	11.3%	Pass
<i>Overturning (kip*ft)</i>	3780.32	2867.60	75.9%	Pass
<i>Pier Flexure (Comp.) (kip*ft)</i>	3121.70	2786.11	85.0%	Pass
<i>Pier Compression (kip)</i>	17996.05	71.14	0.4%	Pass
<i>Pad Flexure (kip*ft)</i>	2017.24	1567.23	74.0%	Pass
<i>Pad Shear - 1-way (kips)</i>	613.25	281.09	43.7%	Pass
<i>Pad Shear - 2-way (Comp) (ksi)</i>	0.190	0.000	0.0%	Pass
<i>Flexural 2-way (Comp) (kip*ft)</i>	3147.97	1671.67	50.6%	Pass

Pier Properties		
Pier Shape:	Circular	
Pier Diameter, $dpier$:	6	ft
Ext. Above Grade, E :	0.7	ft
Pier Rebar Size, Sc :	8	
Pier Rebar Quantity, mc :	28	
Pier Tie/Spiral Size, St :	4	
Pier Tie/Spiral Quantity, mt :	10	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier} :	3	in

*Rating per TIA-222-H Section 15.5

Soil Rating*:	75.9%
Structural Rating*:	85.0%

Pad Properties		
Depth, D :	8.3	ft
Pad Width, W_1 :	19	ft
Pad Width, W_2 :	17	ft
Pad Thickness, T :	3	ft
Pad Rebar Size (Bottom dir. 1), Sp_1 :	7	
Pad Rebar Quantity (Bottom dir. 1), mp_1 :	24	
Pad Rebar Size (Bottom dir. 2), Sp_2 :	7	
Pad Rebar Quantity (Bottom dir. 2), mp_2 :	24	
Pad Clear Cover, cc_{pad} :	3	in

Material Properties		
Rebar Grade, F_y :	60	ksi
Concrete Compressive Strength, F'_c :	4	ksi
Dry Concrete Density, δ_c :	150	pcf

Soil Properties		
Total Soil Unit Weight, γ :	113	pcf
Ultimate Gross Bearing, Q_{ult} :	81.900	ksf
Cohesion, C_u :	0.000	ksf
Friction Angle, ϕ :	44	degrees
SPT Blow Count, N_{blows} :		
Base Friction, μ :	0.5	
Neglected Depth, N :	3.33	ft
Foundation Bearing on Rock?	Yes	
Groundwater Depth, gw :	N/A	ft

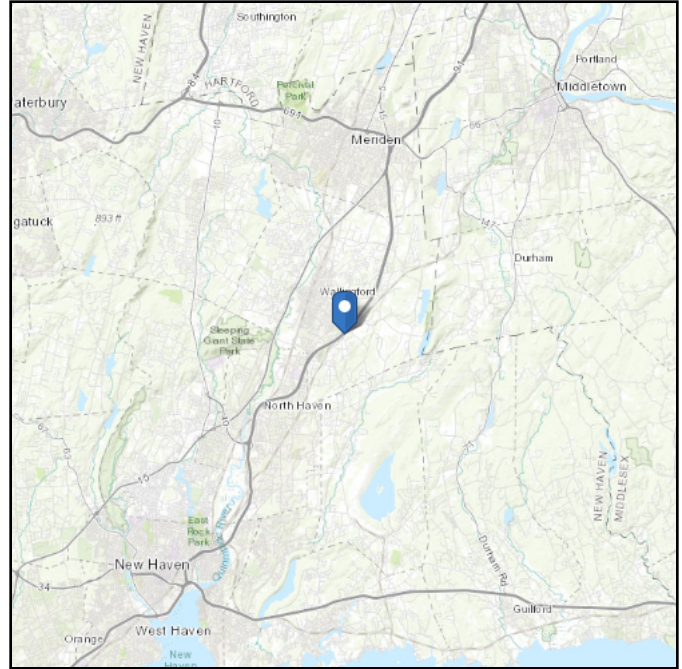
<--Toggle between Gross and Net

ASCE 7 Hazards Report

Address:
No Address at This
Location

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

Elevation: 229.22 ft (NAVD 88)
Latitude: 41.4341
Longitude: -72.801461

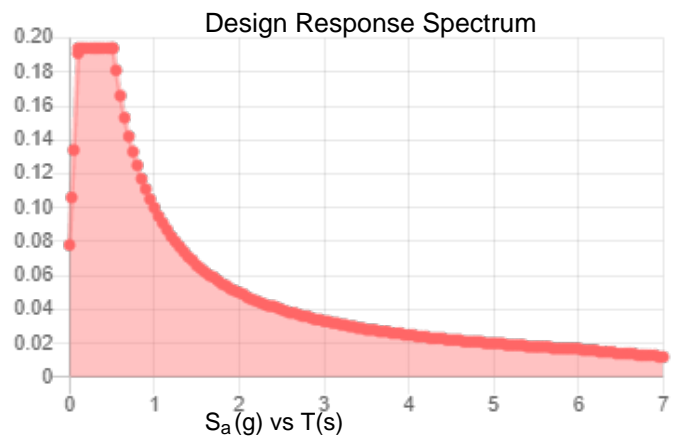
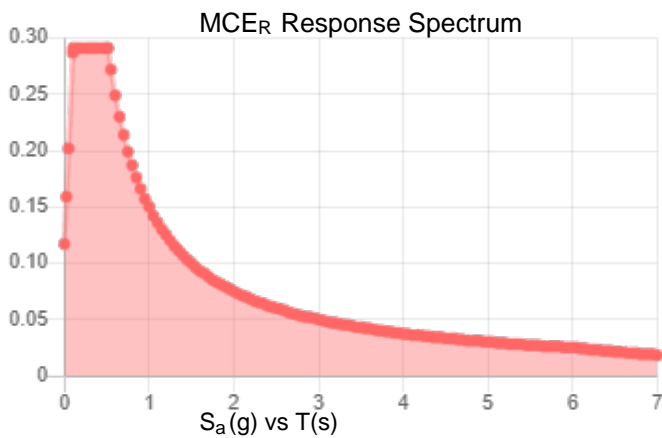


Site Soil Class: D - Stiff Soil

Results:

S_S :	0.182	S_{DS} :	0.194
S_1 :	0.062	S_{D1} :	0.1
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.094
S_{MS} :	0.291	PGA _M :	0.15
S_{M1} :	0.15	F _{PGA} :	1.6
		I_e :	1

Seismic Design Category B



Data Accessed:

Wed Mar 03 2021

Date Source:

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

Ice

Results:

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

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

Date Accessed: Wed Mar 03 2021

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

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

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

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

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

Exhibit E

February 24, 2021

Kevin Morrow
Crown Castle
3530 Toringdon Way, Suite 300
Charlotte, NC 28277
(704) 405-6619



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

Subject: Mount Analysis

Carrier Designation: AT&T Mobility Reconfiguration
Client Site Number: 44020
Client Site Name: WALLINGFORD-POND HILL
FA Location Code: 10071340

Crown Castle Designation: **Crown Castle BU Number:** 828915
Crown Castle Site Name: Wallingford/ I91/ X14/ S
Crown Castle JDE Job Number: 605378
Crown Castle Order Number: 517093 Rev. 1

Engineering Firm Designation: **TEP Project Number:** 83248.504882

Site Data: 316 Woodhouse Ave., Wallingford, New Haven County, CT 06492
Latitude 41° 26' 2.76", Longitude -72° 48' 5.26"

Structure Information: **Tower Height & Type:** 148.0± ft Monopole
Mount Elevation: 128.0 ft
Mount Width & Type: 13.5 ft Low Profile Platform

Dear Kevin Morrow,

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:

Low Profile Platform Mount

Sufficient Capacity*

*Sufficient upon completion of the changes listed in the 'Recommendations' section of this report.

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

Structural analysis prepared by: G. Hunter Morrow, E.I.

Respectfully submitted by:

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



Electronic Copy

02/24/2021

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1) INTRODUCTION

The mount is an existing 13.5-ft, 3-sector Low Profile Platform mount, designed by SitePro. The mount is installed at the 128.0 ft elevation on the 148.0± ft Monopole.

2) ANALYSIS CRITERIA

Building Code:	2018 IBC
TIA-222 Revision:	TIA-222-H
Risk Category:	II
Ultimate Wind Speed:	120 mph
Exposure Category:	C
Topographic Category at Base:	1.0
Topographic Category at Mount:	1.0
Ice Thickness:	1.0 in
Wind Speed with Ice:	50 mph
Seismic Design Category:	B
Seismic S_s:	0.206
Seismic S₁:	0.055
Live Loading Wind Speed:	30 mph
Live Loading at Mid/End-Points:	250 lb
Man Live Loading at Mount Pipes:	500 lb

Table 1 - Proposed Equipment Configuration

Mount Centerline (ft)	Antenna Centerline (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Mount / Modification Details
128.0	128.0	3	CCI ANTENNAS	HPA-65R-BUU-H6	Low Profile Platform Mount
		3	CCI ANTENNAS	HPA65R-BU6A	
		3	POWERWAVE TECHNOLOGIES	7770.00	
		3	ERICSSON	RRUS 11 B12	
		3	ERICSSON	RRUS 32 B2	
		6	KATHREIN	860 10025	
		1	RAYCAP	DC6-48-60-18-8F	
		3	CCI ANTENNAS	TMABPD7823VG12A	
		3	KATHREIN	782 10254	

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

Document	Remarks	Reference	Source
Previous Mount Modification Drawings	Tower Engineering Professionals	9099406	CCIsites
Previous Mount Analysis	Tower Engineering Professionals	9099407	CCIsites
Mount Manufacturer Drawings	SitePro	QMSP	TEP
Loading Application	AT&T Mobility	Order 517093 Rev. 1	CCIsites

3.1) Analysis Method

RISA-3D (Version 17.0.2), 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 C)*.

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 collar mount connection to the pole and assumes it to have sufficient structural capacity to transfer the applied forces from the mount to the tower.
- 6) All material grades used for this analysis, unless verified by mount manufacturer design, were assumed per AISC Table 2-4, 15th Edition. See RISA-3D output for confirmation on grades used in this analysis.

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

4) ANALYSIS RESULTS

Table 3 - Mount Component Stresses vs. Capacity (Low Profile Platform Mount)

Notes	Component	Critical Member	Mount Centerline (ft)	% Capacity	Pass / Fail
1	Face Horizontals	FFTH-1	128.0	14.8	Pass
1	Support Horizontals	SA-1	128.0	15.4	Pass
1	Internals	GSI-2A	128.0	27.8	Pass
1	Mount Pipes	MP-2	128.0	28.6	Pass
1	Kickers	K6	128.0	15.8	Pass
2	Connection Bolts	-	128.0	13.6	Pass
2	Connection Plate	-	128.0	8.0	Pass

Structure Rating (max from all components) =	28.6%
---	--------------

Notes:

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

Table 4 - Tieback Connection Data Table

Tower Connection Node No.	Existing/ Proposed	Resultant End Reaction (lb)	Connected Member Type	Connected Member Size	Member Compressive Capacity (lb) ³	Notes
-	-	-	-	-	-	-

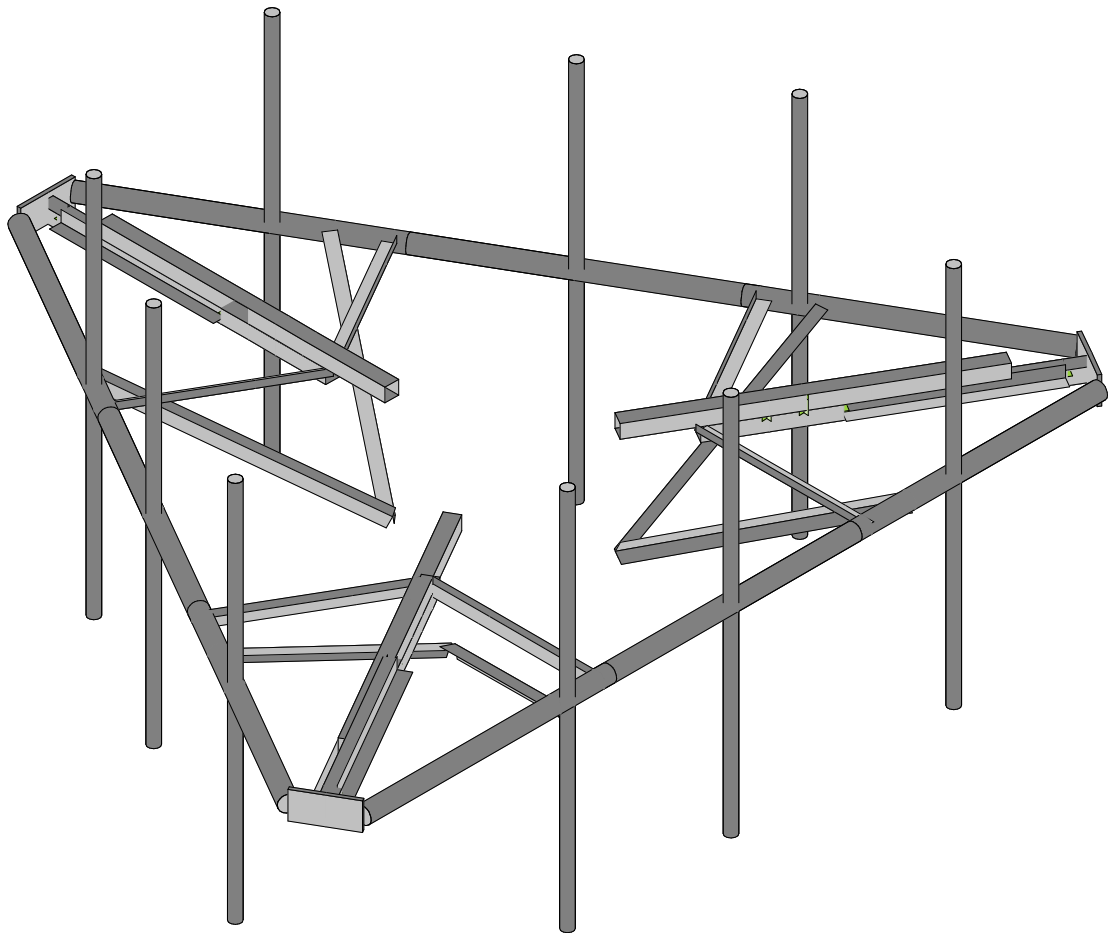
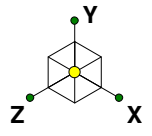
Notes:

- 1) Tieback connection point is within 25% of either end of the connected tower member.
- 2) Tower connection point is NOT within 25% of either end of the connected tower member.
- 3) Reduced member compressive capacity according to CED-STD-10294 *Standard for Installation of Mounts and Appurtenances*.

4.1) Recommendations

- 1) If the load differs from that described in Table 1 of this report or the provisions of this analysis are found to be invalid, another structural analysis should be performed.
- 2) The mount and its connection have sufficient capacity to carry the proposed loading configuration. In order for the results of this analysis to be valid, the mount modifications listed below must be completed:
 - a) Install (1) SitePro PRK-SFS Reinforcement Kit, or approved equivalent, as shown in the previous mount modification drawings listed in Table 2 of this report.

APPENDIX A
WIRE FRAME AND RENDERED MODELS



Envelope Only Solution

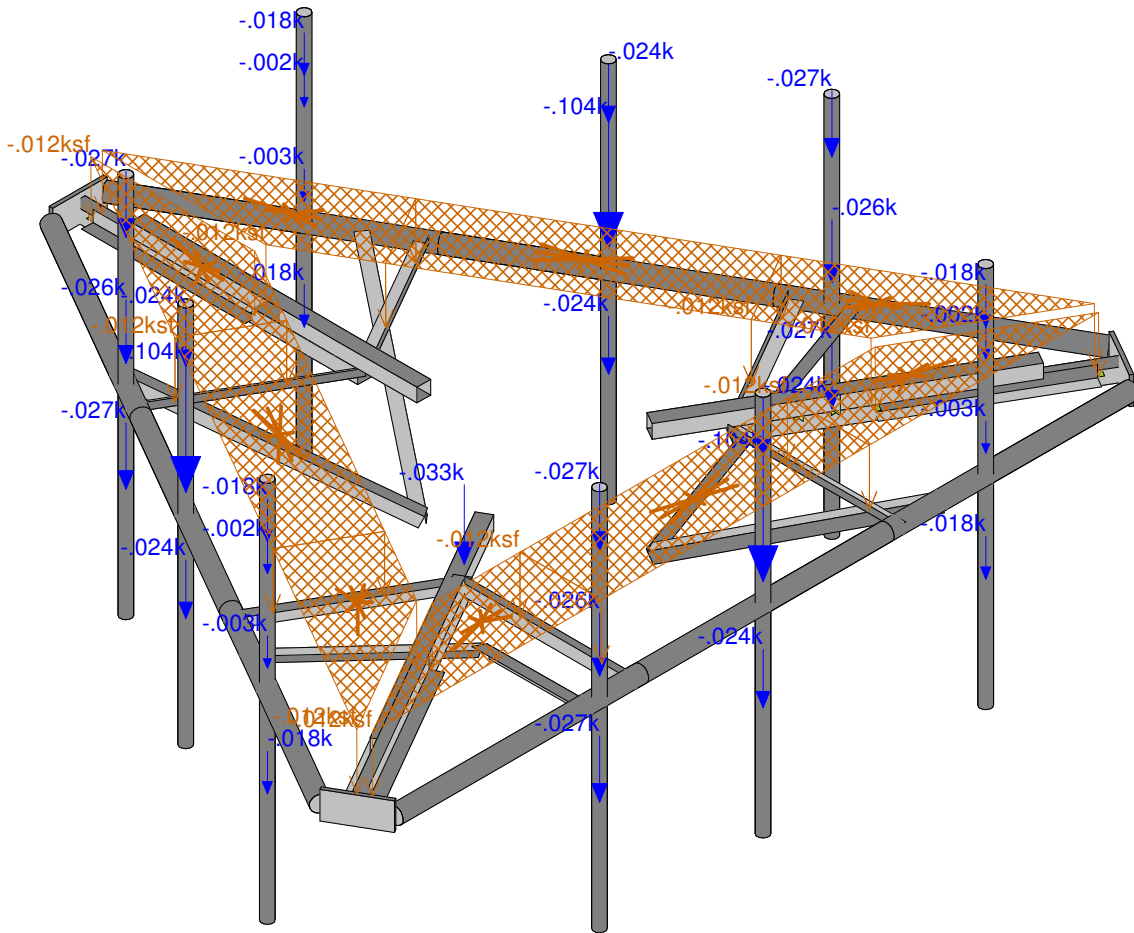
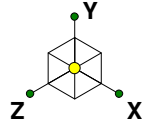
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GHM
TEP No. 83248.504882

CCI BU No 828915

SK - 1

Feb 24, 2021 at 10:17 AM

Mount Rev H.r3d

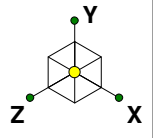


Loads: BLC 1, Dead
Envelope Only Solution

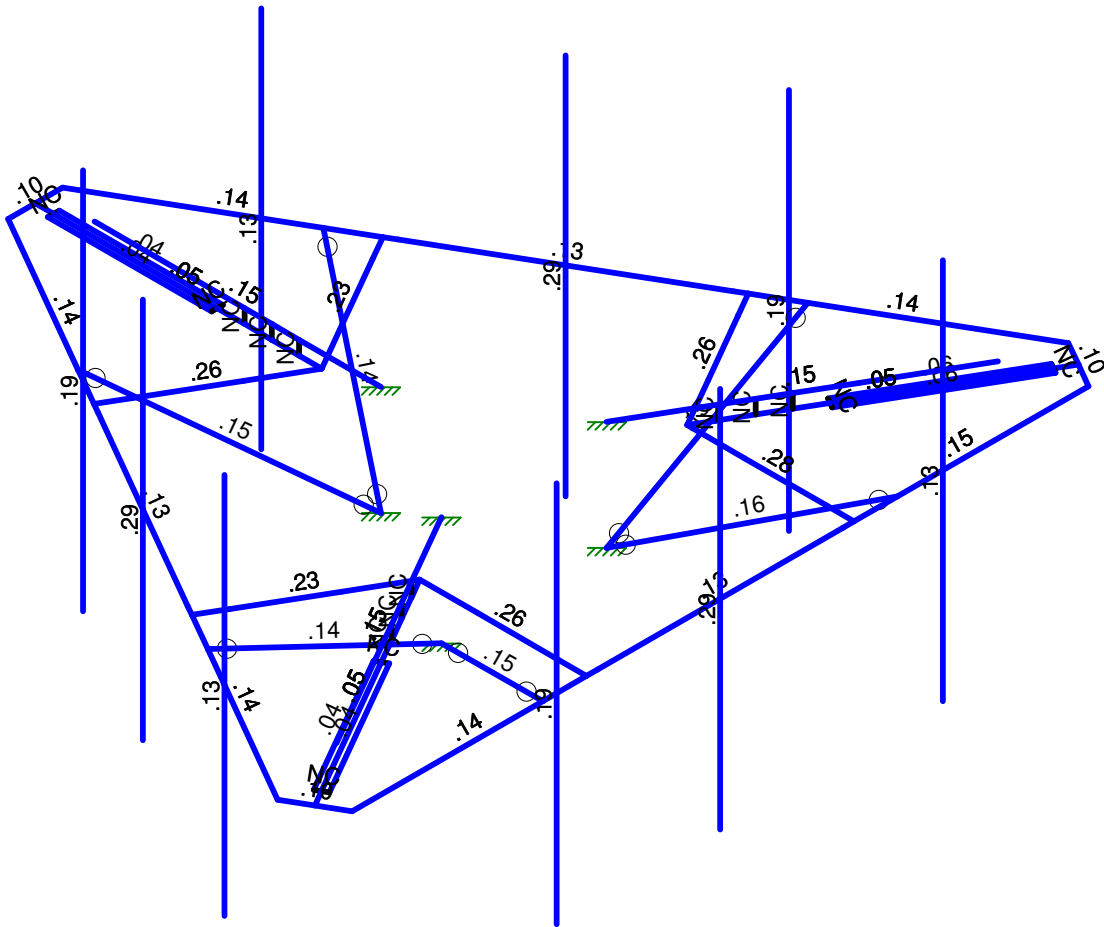
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GHM
TEP No. 83248.504882

CCI BU No 828915

SK - 2
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Mount Rev H.r3d

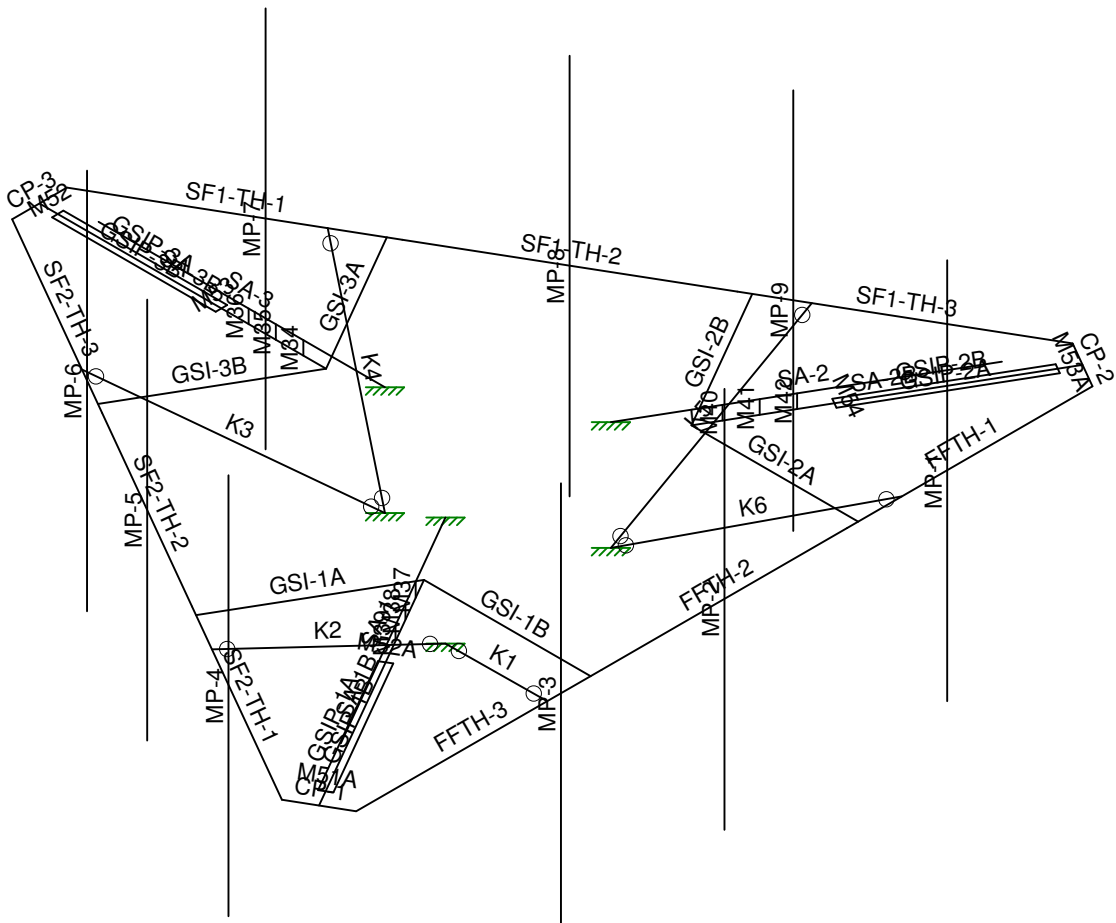
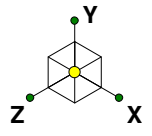


Code Check (Env)	
Black	No Calc
Red	> 1.0
Magenta	.90-1.0
Green	.75-.90
Cyan	.50-.75
Blue	0-.50



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

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GHM		Feb 24, 2021 at 10:17 AM
TEP No. 83248.504882		Mount Rev H.r3d



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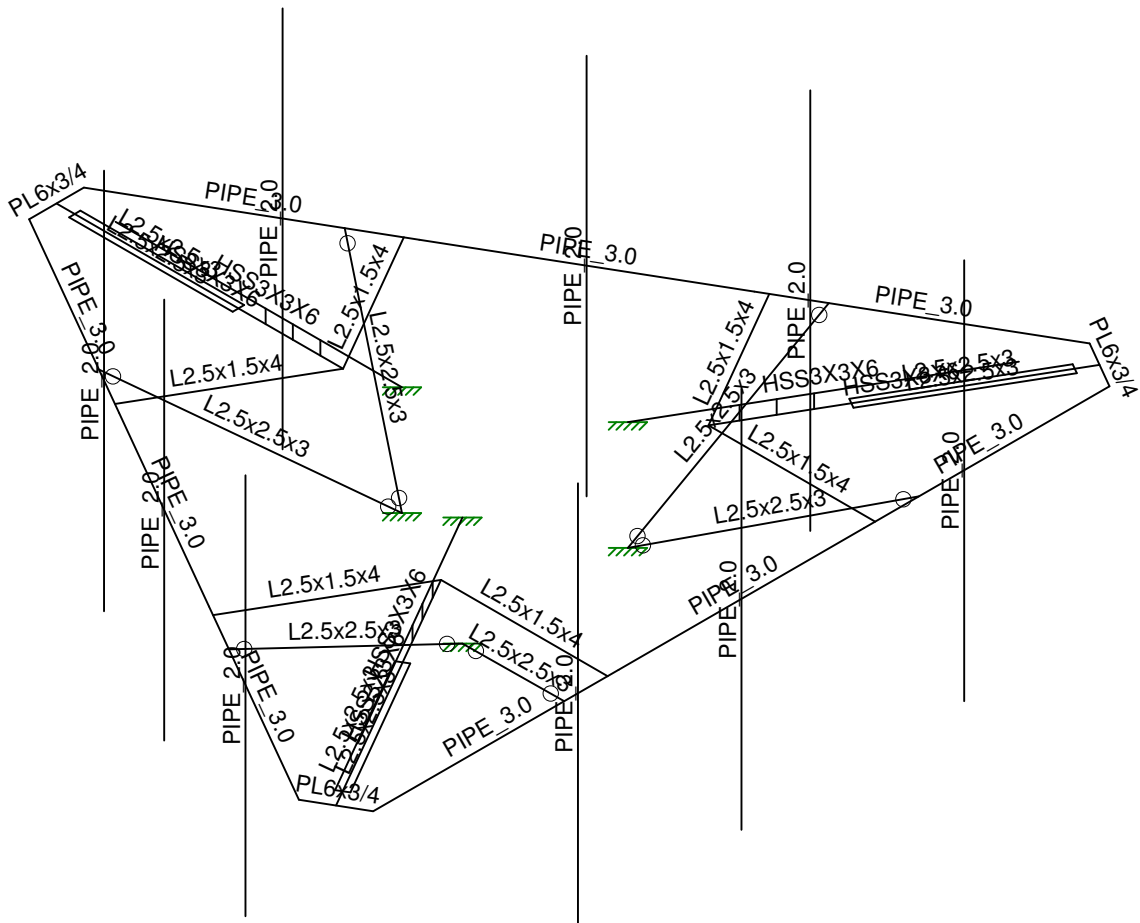
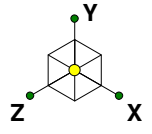
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 GHM
 TEP No. 83248.504882

CCI BU No 828915

SK - 4

Feb 24, 2021 at 10:18 AM

Mount Rev H.r3d



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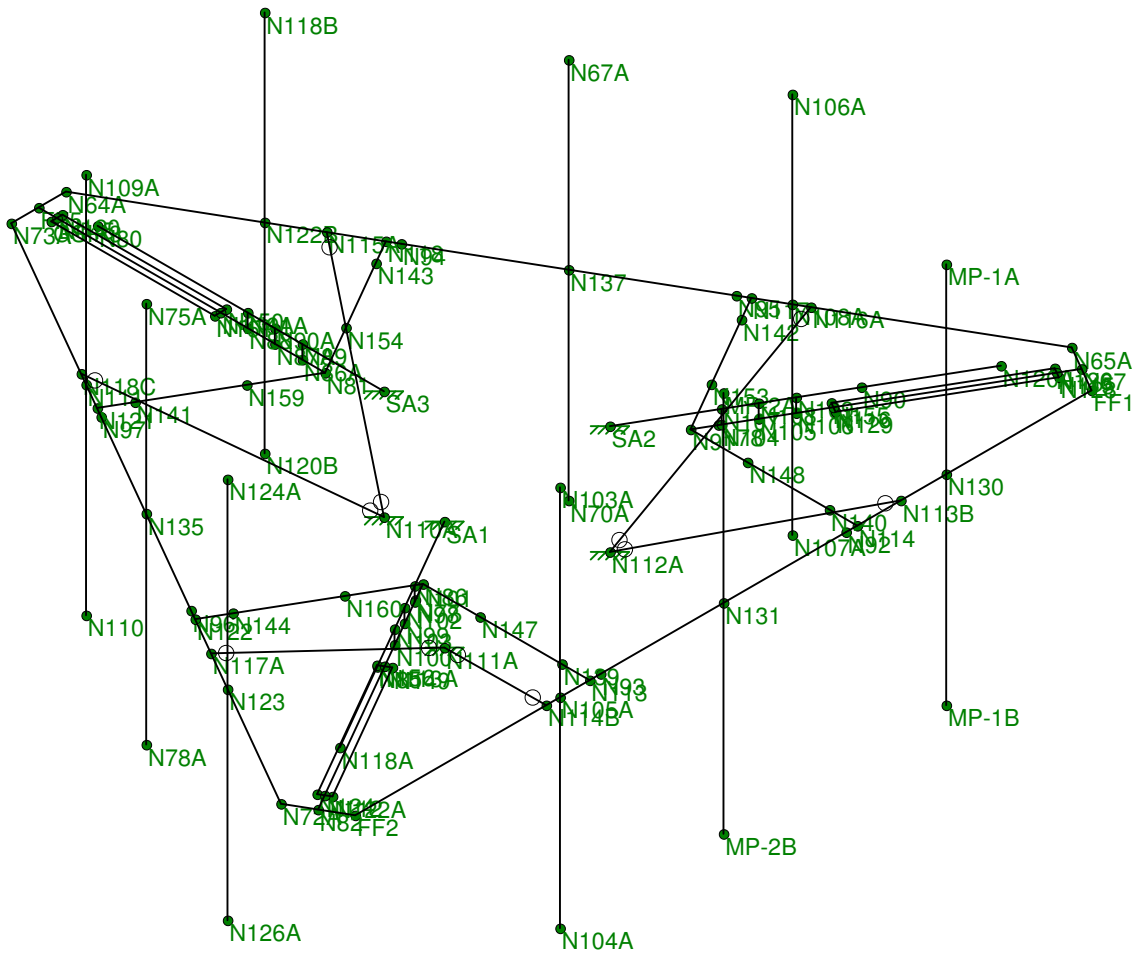
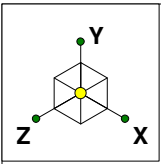
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 GHM
 TEP No. 83248.504882

CCI BU No 828915

SK - 5

Feb 24, 2021 at 10:18 AM

Mount Rev H.r3d



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CCI BU No 828915

SK - 6

Feb 24, 2021 at 10:18 AM

Mount Rev H.r3d

APPENDIX B
SOFTWARE INPUT CALCULATIONS



Code Revisions:	TIA-222-H	IBC 2018
Tower Type:	Monopole	

Wind Inputs:

Ult. Wind Velocity:	120.0	mph
Live Load Velocity:	30.0	mph
Ice Wind Velocity:	50.0	mph
Base Ice Thickness:	1.00	inches
Mount Centerline:	128.0	ft
Antenna Centerline:	128.0	ft
Exposure Category:	C	
Topo Category:	1	
Risk Category:	II	
Ground Elevation:	229	ft

Wind Calculations:

K_{zt} :	1.000	Section 2.6.6
K_d :	0.950	
$K_{z-Mount}$:	1.333	Section 2.6.5.2
$K_{z-Antenna}$:	1.333	Section 2.6.5.2
K_{iz} :	1.145	Section 2.6.10
Ice Thickness:	1.145	inches - Section 2.6.10

Without Ice - (psf)	With Ice - (psf)
$(q_z G_h)_{Mount}$: 46.30	$(q_z G_h)_{Mount}$: 8.04
$(q_z G_h)_{Antenna}$: 46.30	$(q_z G_h)_{Antenna}$: 8.04

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

Seismic Input

S_{DS} :	0.219	Design Short Period Spectral Accel.
I_p :	1.0	Importance Factor
R_p :	2.0	Response Modification Factor
ρ :	1.0	
A_s :	1.0	Applification Factor - TIA-222-H Section 2.7.8.1
S_1 :	0.055	Spectral Acceleration at a Period of 1 Second

Seismic Design Force

Cs:	0.110	kips/kip	TIA-H Sec 2.7.7.1.1
Cs-min:	0.030	kips/kip	TIA-H Sec 2.7.7.1.1



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

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

MFR	Model	Height (in)	Width (in)	Depth (in)	Wt. (lbs)	Azimuth°	Qty	Shape	Member Label	Distance from start node of the member		
										Location #1 (ft,%)	Location #2 (ft,%)	Location #3 (ft,%)
POWERWAVE TECHNOLOGIES	7770.00	55.00	11.00	5.00	35.00	0.00	1	Flat	MP-1	1.00	5.00	
KATHREIN	860 10025	7.00	2.30	1.90	1.16	90.00	2	Flat	MP-1	1.50		
KATHREIN	782 10254	4.30	3.00	1.70	2.90	0.00	1	Flat	MP-1	3.00		
CCI ANTENNAS	HPA-65R-BUU-H6	72.00	14.80	9.00	47.90	0.00	1	Flat	MP-2	1.00	5.00	
ERICSSON	RRUS 11 B12	19.70	17.00	7.20	50.70	90.00	1	Flat	MP-2	3.00		
ERICSSON	RRUS 32 B2	27.20	12.05	7.00	52.90	90.00	1	Flat	MP-2	3.00		
CCI ANTENNAS	HPA65R-BU6A	71.10	11.70	7.60	54.50	0.00	1	Flat	MP-3	1.00	5.00	
CCI ANTENNAS	TMABPD7823VG12A	14.22	11.56	4.24	26.00	0.00	1	Flat	MP-3	3.00		
POWERWAVE TECHNOLOGIES	7770.00	55.00	11.00	5.00	35.00	120.00	1	Flat	MP-4	1.00	5.00	
KATHREIN	860 10025	7.00	2.30	1.90	1.16	210.00	2	Flat	MP-4	1.50		
KATHREIN	782 10254	4.30	3.00	1.70	2.90	120.00	1	Flat	MP-4	3.00		
CCI ANTENNAS	HPA-65R-BUU-H6	72.00	14.80	9.00	47.90	120.00	1	Flat	MP-5	1.00	5.00	
ERICSSON	RRUS 11 B12	19.70	17.00	7.20	50.70	210.00	1	Flat	MP-5	3.00		
ERICSSON	RRUS 32 B2	27.20	12.05	7.00	52.90	210.00	1	Flat	MP-5	3.00		
CCI ANTENNAS	HPA65R-BU6A	71.10	11.70	7.60	54.50	120.00	1	Flat	MP-6	1.00	5.00	
CCI ANTENNAS	TMABPD7823VG12A	14.22	11.56	4.24	26.00	120.00	1	Flat	MP-6	3.00		
POWERWAVE TECHNOLOGIES	7770.00	55.00	11.00	5.00	35.00	240.00	1	Flat	MP-7	1.00	5.00	
KATHREIN	860 10025	7.00	2.30	1.90	1.16	330.00	2	Flat	MP-7	1.50		
KATHREIN	782 10254	4.30	3.00	1.70	2.90	240.00	1	Flat	MP-7	3.00		
CCI ANTENNAS	HPA-65R-BUU-H6	72.00	14.80	9.00	47.90	240.00	1	Flat	MP-8	1.00	5.00	
ERICSSON	RRUS 11 B12	19.70	17.00	7.20	50.70	330.00	1	Flat	MP-8	3.00		
ERICSSON	RRUS 32 B2	27.20	12.05	7.00	52.90	330.00	1	Flat	MP-8	3.00		
CCI ANTENNAS	HPA65R-BU6A	71.10	11.70	7.60	54.50	240.00	1	Flat	MP-9	1.00	5.00	
CCI ANTENNAS	TMABPD7823VG12A	14.22	11.56	4.24	26.00	240.00	1	Flat	MP-9	3.00		
RAYCAP	DC6-48-60-18-8F	31.25	11.00	11.00	32.80	0.00	1	Round	SA-1	1.00		



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

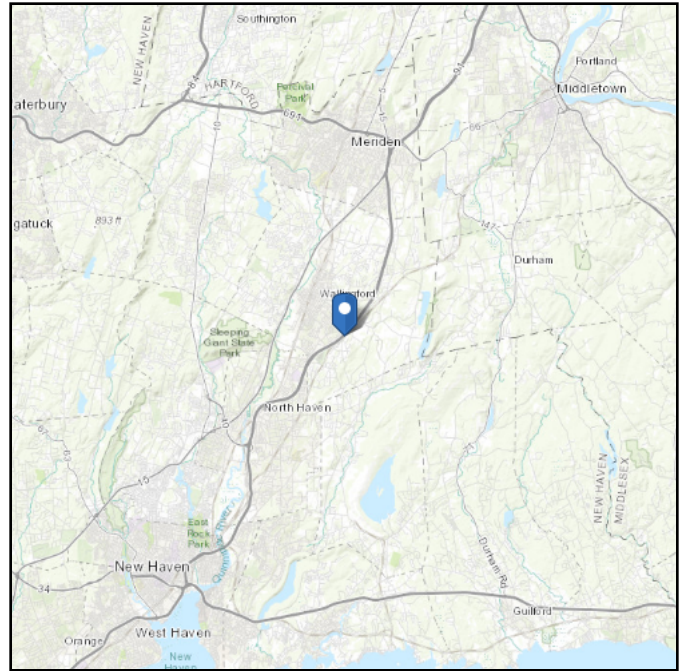
Member Name	Wind Proj. (in)	Length (in)	Shape	θ (°)	Perimeter (in)
CP-1	6.000	12.00	Flat	30.00	12.75
CP-2	6.000	12.00	Flat	-30.00	12.75
CP-3	6.000	12.00	Flat	90.00	12.75
FFTH-1	3.500	54.00	Round	90.00	11.00
FFTH-2	3.500	54.00	Round	90.00	11.00
FFTH-3	3.500	54.00	Round	90.00	11.00
SF1-TH-1	3.500	54.00	Round	30.00	11.00
SF1-TH-2	3.500	54.00	Round	30.00	11.00
SF1-TH-3	3.500	54.00	Round	30.00	11.00
SF2-TH-1	3.500	54.00	Round	-30.00	11.00
SF2-TH-2	3.500	54.00	Round	-30.00	11.00
SF2-TH-3	3.500	54.00	Round	-30.00	11.00
GSIP-1A	2.500	36.00	Flat	-60.00	10.00
GSIP-1B	2.500	36.00	Flat	-60.00	10.00
GSIP-2A	2.500	36.00	Flat	60.00	10.00
GSIP-2B	2.500	36.00	Flat	60.00	10.00
GSIP-3A	2.500	36.00	Flat	0.00	10.00
GSIP-3B	2.500	36.00	Flat	0.00	10.00
GSI-1A	1.500	36.70	Flat	60.00	8.00
GSI-1B	1.500	36.70	Flat	0.00	8.00
GSI-2A	1.500	36.70	Flat	0.00	8.00
GSI-2B	1.500	36.70	Flat	-60.00	8.00
GSI-3A	1.500	36.70	Flat	-60.00	8.00
GSI-3B	1.500	36.70	Flat	60.00	8.00
MP-1	2.375	84.00	Round		7.46
MP-2	2.375	84.00	Round		7.46
MP-3	2.375	84.00	Round		7.46
MP-4	2.375	84.00	Round		7.46
MP-5	2.375	84.00	Round		7.46
MP-6	2.375	84.00	Round		7.46
MP-7	2.375	84.00	Round		7.46
MP-8	2.375	84.00	Round		7.46
MP-9	2.375	84.00	Round		7.46
SA-1	3.000	63.01	Flat	-60.00	12.00
SA-1B	3.000	63.01	Flat	-60.00	12.00
SA-2	3.000	63.01	Flat	60.00	12.00
SA-2B	3.000	63.01	Flat	60.00	12.00
SA-3	3.000	63.01	Flat	0.00	12.00
SA-3B	3.000	63.01	Flat	0.00	12.00
K1	2.500	52.34	Flat		10.00
K2	2.500	52.34	Flat		10.00
K3	2.500	52.34	Flat		10.00
K4	2.500	52.34	Flat		10.00
K5	2.500	52.34	Flat		10.00
K6	2.500	52.34	Flat		10.00

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: 229.22 ft (NAVD 88)
Latitude: 41.4341
Longitude: -72.801461



Wind

Results:

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

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1-CC.2-4

Date Accessed: Wed Apr 22 2020

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.

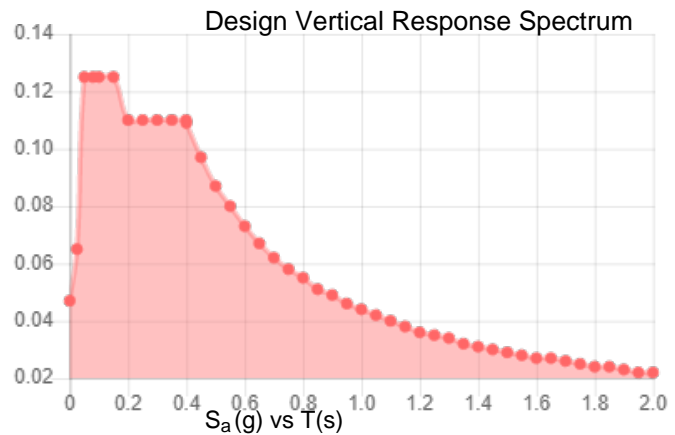
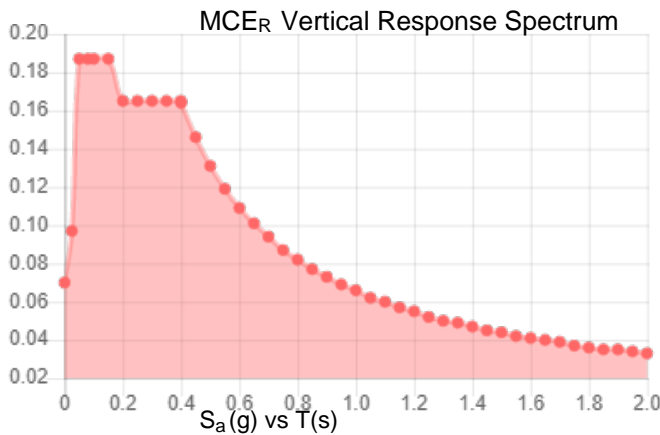
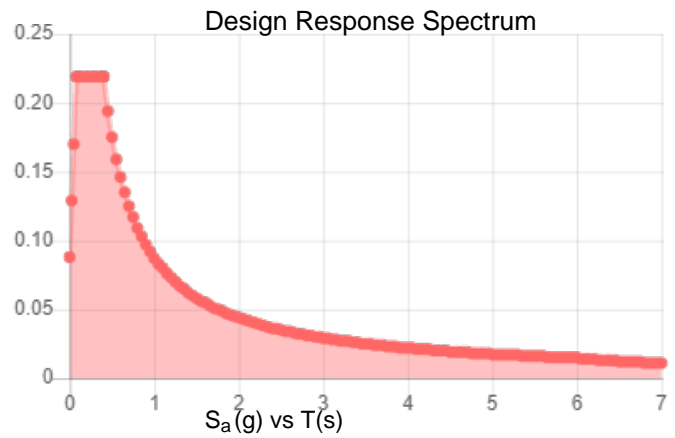
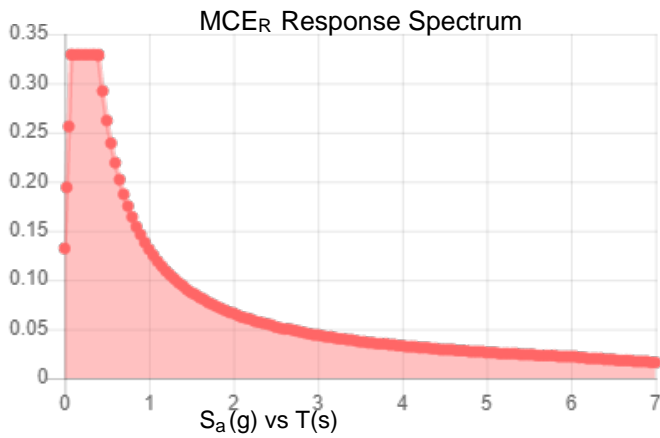
Mountainous terrain, gorges, ocean promontories, and special wind regions should be examined for unusual wind conditions.

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

Results:

S_s :	0.206	S_{D1} :	0.087
S_1 :	0.055	T_L :	6
F_a :	1.6	PGA :	0.115
F_v :	2.4	PGA _M :	0.18
S_{MS} :	0.329	F_{PGA} :	1.57
S_{M1} :	0.131	I_e :	1
S_{DS} :	0.219	C_v :	0.711

Seismic Design Category B



Data Accessed:

Wed Apr 22 2020

Date Source:

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

Ice

Results:

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

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

Date Accessed: Wed Apr 22 2020

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

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

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

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APPENDIX C
SOFTWARE ANALYSIS OUTPUT



Company : Tower Engineering Professionals
 Designer : GHM
 Job Number : TEP No. 83248.504882
 Model Name : CCI BU No 828915

Feb 24, 2021
 10:18 AM
 Checked By: JWS

(Global) Model Settings

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

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

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



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

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iy [in4]	Izz [in4]	J [in4]
1	Face Horiz	PIPE 3.0	None	None	A53-B-35	Typical	2.07	2.85	2.85	5.69
2	Mount Pipes	PIPE 2.0	None	None	A53-B-35	Typical	1.02	.627	.627	1.25
3	Support Horiz	HSS3X3X6	None	None	A500 Gr.46	Typical	3.39	3.78	3.78	6.64
4	Internal	L2.5x1.5x4	None	None	A36 Gr.36	Typical	.947	.16	.594	.021
5	Grating Support	L2.5x2.5x3	None	None	A36 Gr.36	Typical	.901	.535	.535	.011
6	CP	PL6x3/4	None	None	A36 Gr.36	Typical	4.5	.211	13.5	.777
7	PRK-SFS	L2.5x2.5x3	None	None	A36 Gr.36	Typical	.901	.535	.535	.011

Cold Formed Steel Section Sets

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iy [in4]	Izz [in4]	J [in4]
1	CF1A	1.5CU1.25X035	Beam	None	A570 Gr.33	Typical	.131	.022	.052	5.4e-5

Material Takeoff

	Material	Size	Pieces	Length[ft]	Weight[K]
1	General				
2	RIGID		15	3.5	0
3	Total General		15	3.5	0



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Material Takeoff (Continued)

	Material	Size	Pieces	Length(ft)	Weight(K)
4					
5	Hot Rolled Steel				
6	A36 Gr.36	L2.5x1.5x4	6	18.3	0
7	A36 Gr.36	L2.5x2.5x3	12	44.2	.1
8	A36 Gr.36	PL6x3/4	3	3	0
9	A500 Gr.46	HSS3X3X6	6	31.5	4
10	A53-B-35	PIPE 2.0	9	63	.2
11	A53-B-35	PIPE 3.0	9	40.5	.3
12	Total HR Steel		45	200.5	1.1

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 SA3	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
2 SA1	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
3 SA2	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
4 N110A	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
5 N111A	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
6 N112A	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction

Member Primary Data

Label	I Joint	J Joint	K Joint	Rotate(d...)	Section/Shape	Type	Design List	Material	Design Ru...
1 CP-1	N72A	FF2			CP	None	None	A36 Gr.36	Typical
2 CP-2	FF1	N65A			CP	None	None	A36 Gr.36	Typical
3 CP-3	N64A	N73A			CP	None	None	A36 Gr.36	Typical
4 FFTH-1	FF1	N92			Face Horiz	None	None	A53-B-35	Typical
5 FFTH-2	N92	N93			Face Horiz	None	None	A53-B-35	Typical
6 FFTH-3	N93	FF2			Face Horiz	None	None	A53-B-35	Typical
7 SF1-TH-1	N64A	N94			Face Horiz	None	None	A53-B-35	Typical
8 SF1-TH-2	N94	N95			Face Horiz	None	None	A53-B-35	Typical
9 SF1-TH-3	N95	N65A			Face Horiz	None	None	A53-B-35	Typical
10 SF2-TH-1	N72A	N96			Face Horiz	None	None	A53-B-35	Typical
11 SF2-TH-2	N96	N97			Face Horiz	None	None	A53-B-35	Typical
12 SF2-TH-3	N97	N73A			Face Horiz	None	None	A53-B-35	Typical
13 GSIP-1A	N124	N156		270	Grating Support	None	None	A36 Gr.36	Typical
14 GSIP-1B	N122A	N149			Grating Support	None	None	A36 Gr.36	Typical
15 GSIP-2A	N128	N129		270	Grating Support	None	None	A36 Gr.36	Typical
16 GSIP-2B	N126	N155			Grating Support	None	None	A36 Gr.36	Typical
17 GSIP-3A	N120	N150		270	Grating Support	None	None	A36 Gr.36	Typical
18 GSIP-3B	GSIP3	N161			Grating Support	None	None	A36 Gr.36	Typical
19 GSI-1A	N86	N122		270	Internal	None	None	A36 Gr.36	Typical
20 GSI-1B	N113	N86		270	Internal	None	None	A36 Gr.36	Typical
21 GSI-2A	N91	N114		270	Internal	None	None	A36 Gr.36	Typical
22 GSI-2B	N117	N91		270	Internal	None	None	A36 Gr.36	Typical
23 GSI-3A	N81	N118		270	Internal	None	None	A36 Gr.36	Typical
24 GSI-3B	N121	N81		270	Internal	None	None	A36 Gr.36	Typical
25 MP-1	MP-1A	MP-1B			Mount Pipes	None	None	A53-B-35	Typical
26 MP-2	MP-2A	MP-2B			Mount Pipes	None	None	A53-B-35	Typical
27 MP-3	N103A	N104A			Mount Pipes	None	None	A53-B-35	Typical
28 MP-4	N124A	N126A			Mount Pipes	None	None	A53-B-35	Typical
29 MP-5	N75A	N78A			Mount Pipes	None	None	A53-B-35	Typical
30 MP-6	N109A	N110			Mount Pipes	None	None	A53-B-35	Typical
31 MP-7	N118B	N120B			Mount Pipes	None	None	A53-B-35	Typical
32 MP-8	N67A	N70A			Mount Pipes	None	None	A53-B-35	Typical
33 MP-9	N106A	N107A			Mount Pipes	None	None	A53-B-35	Typical



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Member Primary Data (Continued)

Label	I Joint	J Joint	K Joint	Rotate(d...)	Section/Shape	Type	Design List	Material	Design Ru...
34 M34	N86A	N89			RIGID	None	None	RIGID	Typical
35 M35	N87A	N90A			RIGID	None	None	RIGID	Typical
36 M36	N88	N91A			RIGID	None	None	RIGID	Typical
37 M37	N98	N101			RIGID	None	None	RIGID	Typical
38 M38	N99	N102			RIGID	None	None	RIGID	Typical
39 M39	N100	N103			RIGID	None	None	RIGID	Typical
40 M40	N104	N107			RIGID	None	None	RIGID	Typical
41 M41	N105	N108			RIGID	None	None	RIGID	Typical
42 M42	N106	N109			RIGID	None	None	RIGID	Typical
43 M51A	N124	N122A			RIGID	None	None	RIGID	Typical
44 M52	N120	GSIP3			RIGID	None	None	RIGID	Typical
45 M52A	N156	N149			RIGID	None	None	RIGID	Typical
46 M53	N150	N161			RIGID	None	None	RIGID	Typical
47 M53A	N128	N126			RIGID	None	None	RIGID	Typical
48 M54	N129	N155			RIGID	None	None	RIGID	Typical
49 SA-1	SA1	N118A			Support Horiz	None	None	A500 Gr.46	Typical
50 SA-1B	N86	N82			Support Horiz	None	None	A500 Gr.46	Typical
51 SA-2	SA2	N120A			Support Horiz	None	None	A500 Gr.46	Typical
52 SA-2B	N91	N87			Support Horiz	None	None	A500 Gr.46	Typical
53 SA-3	SA3	FF5			Support Horiz	None	None	A500 Gr.46	Typical
54 SA-3B	N81	FF5			Support Horiz	None	None	A500 Gr.46	Typical
55 K1	N114B	N111A		180	PRK-SFS	None	None	A36 Gr.36	Typical
56 K2	N117A	N111A		90	PRK-SFS	None	None	A36 Gr.36	Typical
57 K3	N118C	N110A		180	PRK-SFS	None	None	A36 Gr.36	Typical
58 K4	N115A	N110A		90	PRK-SFS	None	None	A36 Gr.36	Typical
59 K5	N116A	N112A		180	PRK-SFS	None	None	A36 Gr.36	Typical
60 K6	N113B	N112A		90	PRK-SFS	None	None	A36 Gr.36	Typical

Member Advanced Data

Label	I Release	J Release	I Offset(in)	J Offset(in)	T/C Only	Physical	Defl Ratio	Options	Analysis ...	Inactive	Seismi...
1 CP-1						Yes	** NA **				None
2 CP-2						Yes	** NA **				None
3 CP-3						Yes	** NA **				None
4 FFTH-1						Yes	** NA **				None
5 FFTH-2						Yes	** NA **				None
6 FFTH-3						Yes	** NA **				None
7 SF1-TH-1						Yes	** NA **				None
8 SF1-TH-2						Yes	** NA **				None
9 SF1-TH-3						Yes	** NA **				None
10 SF2-TH-1						Yes	** NA **				None
11 SF2-TH-2						Yes	** NA **				None
12 SF2-TH-3						Yes	** NA **				None
13 GSIP-1A						Yes	** NA **				None
14 GSIP-1B						Yes	** NA **				None
15 GSIP-2A						Yes	** NA **				None
16 GSIP-2B						Yes	** NA **				None
17 GSIP-3A						Yes	** NA **				None
18 GSIP-3B						Yes	** NA **				None
19 GSI-1A						Yes	** NA **				None
20 GSI-1B						Yes	** NA **				None
21 GSI-2A						Yes	** NA **				None
22 GSI-2B						Yes	** NA **				None
23 GSI-3A						Yes	** NA **				None
24 GSI-3B						Yes	** NA **				None
25 MP-1						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	Ratio Options	Analysis	Inactive	Seismi...
26	MP-2					Yes	** NA **			None
27	MP-3					Yes	** NA **			None
28	MP-4					Yes	** NA **			None
29	MP-5					Yes	** NA **			None
30	MP-6					Yes	** NA **			None
31	MP-7					Yes	** NA **			None
32	MP-8					Yes	** NA **			None
33	MP-9					Yes	** NA **			None
34	M34					Yes	** NA **			None
35	M35					Yes	** NA **			None
36	M36					Yes	** NA **			None
37	M37					Yes	** NA **			None
38	M38					Yes	** NA **			None
39	M39					Yes	** NA **			None
40	M40					Yes	** NA **			None
41	M41					Yes	** NA **			None
42	M42					Yes	** NA **			None
43	M51A					Yes	** NA **			None
44	M52					Yes	** NA **			None
45	M52A					Yes	** NA **			None
46	M53					Yes	** NA **			None
47	M53A					Yes	** NA **			None
48	M54					Yes	** NA **			None
49	SA-1					Yes	** NA **			None
50	SA-1B					Yes	** NA **			None
51	SA-2					Yes	** NA **			None
52	SA-2B					Yes	** NA **			None
53	SA-3					Yes	** NA **			None
54	SA-3B					Yes	** NA **			None
55	K1	BenPIN	BenPIN			Yes	** NA **			None
56	K2	BenPIN	BenPIN			Yes	** NA **			None
57	K3	BenPIN	BenPIN			Yes	** NA **			None
58	K4	BenPIN	BenPIN			Yes	** NA **			None
59	K5	BenPIN	BenPIN			Yes	** NA **			None
60	K6	BenPIN	BenPIN			Yes	** NA **			None

Hot Rolled Steel Design Parameters

Label	Shape	Length(ft)	Lbyy(ft)	Lbzz(ft)	Lcomp top(ft)	Lcomp bot(ft)	L-torque(ft)	Kyy	Kzz	Cb	Functi...
1	CP-1	CP	1					1	1		Lateral
2	CP-2	CP	1					1	1		Lateral
3	CP-3	CP	1					1	1		Lateral
4	FFTH-1	Face Horiz	4.5					.65	.65		Lateral
5	FFTH-2	Face Horiz	4.5					.65	.65		Lateral
6	FFTH-3	Face Horiz	4.5					.65	.65		Lateral
7	SF1-TH-1	Face Horiz	4.5					.65	.65		Lateral
8	SF1-TH-2	Face Horiz	4.5					.65	.65		Lateral
9	SF1-TH-3	Face Horiz	4.5					.65	.65		Lateral
10	SF2-TH-1	Face Horiz	4.5					.65	.65		Lateral
11	SF2-TH-2	Face Horiz	4.5					.65	.65		Lateral
12	SF2-TH-3	Face Horiz	4.5					.65	.65		Lateral
13	GSIP-1A	Grating Support	3					1	1		Lateral
14	GSIP-1B	Grating Support	3					1	1		Lateral
15	GSIP-2A	Grating Support	3					1	1		Lateral
16	GSIP-2B	Grating Support	3					1	1		Lateral
17	GSIP-3A	Grating Support	3					1	1		Lateral



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 Designer : GHM
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Hot Rolled Steel Design Parameters (Continued)

Label	Shape	Length(ft)	Lbyy(ft)	Lbzz(ft)	Lcomp top(ft)	Lcomp bot(ft)	L-torque(ft)	Kyy	Kzz	Cb	Functi...
18	GSIP-3B	Grating Support	3					1	1		Lateral
19	GSI-1A	Internal	3.058					.65	.65		Lateral
20	GSI-1B	Internal	3.058					.65	.65		Lateral
21	GSI-2A	Internal	3.058					.65	.65		Lateral
22	GSI-2B	Internal	3.058					.65	.65		Lateral
23	GSI-3A	Internal	3.058					.65	.65		Lateral
24	GSI-3B	Internal	3.058					.65	.65		Lateral
25	MP-1	Mount Pipes	7	Segment	Segment			2.1	2.1		Lateral
26	MP-2	Mount Pipes	7	Segment	Segment			2.1	2.1		Lateral
27	MP-3	Mount Pipes	7	Segment	Segment			2.1	2.1		Lateral
28	MP-4	Mount Pipes	7	Segment	Segment			2.1	2.1		Lateral
29	MP-5	Mount Pipes	7	Segment	Segment			2.1	2.1		Lateral
30	MP-6	Mount Pipes	7	Segment	Segment			2.1	2.1		Lateral
31	MP-7	Mount Pipes	7	Segment	Segment			2.1	2.1		Lateral
32	MP-8	Mount Pipes	7	Segment	Segment			2.1	2.1		Lateral
33	MP-9	Mount Pipes	7	Segment	Segment			2.1	2.1		Lateral
34	SA-1	Support Horiz	5.25					2.1	2.1		Lateral
35	SA-1B	Support Horiz	5.25					2.1	2.1		Lateral
36	SA-2	Support Horiz	5.25					2.1	2.1		Lateral
37	SA-2B	Support Horiz	5.25					2.1	2.1		Lateral
38	SA-3	Support Horiz	5.25					2.1	2.1		Lateral
39	SA-3B	Support Horiz	5.25					2.1	2.1		Lateral
40	K1	PRK-SFS	4.362					1	1		Lateral
41	K2	PRK-SFS	4.362					1	1		Lateral
42	K3	PRK-SFS	4.362					1	1		Lateral
43	K4	PRK-SFS	4.362					1	1		Lateral
44	K5	PRK-SFS	4.362					1	1		Lateral
45	K6	PRK-SFS	4.362					1	1		Lateral

Cold Formed Steel Design Parameters

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

Basic Load Cases

BLC	Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
1	Dead	None		-1			34		9	
2	0 Wind - No Ice	None					34	45		
3	30 Wind - No Ice	None					68	90		
4	45 Wind - No Ice	None					68	90		
5	60 Wind - No Ice	None					68	90		
6	90 Wind - No Ice	None					34	45		
7	120 Wind - No Ice	None					68	90		
8	135 Wind - No Ice	None					68	90		
9	150 Wind - No Ice	None					68	90		
10	180 Wind - No Ice	None					34	45		
11	210 Wind - No Ice	None					68	90		
12	225 Wind - No Ice	None					68	90		
13	240 Wind - No Ice	None					68	90		
14	270 Wind - No Ice	None					34	45		
15	300 Wind - No Ice	None					68	90		
16	315 Wind - No Ice	None					68	90		
17	330 Wind - No Ice	None					68	90		
18	Ice Weight	None					34	45	9	
19	0 Wind - Ice	None					34	45		



Load Combinations (Continued)

	Description	Solve	PDe	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...
89	(0.9-0.2Sds)*DL+1.0...	Yes	Y	1	.856	E...	.077	ELZ	.077										
90	(0.9-0.2Sds)*DL+1.0...	Yes	Y	1	.856	E...	.095	ELZ	.055										
91	(0.9-0.2Sds)*DL+1.0...	Yes	Y	1	.856	E...	.11	0											
92	(0.9-0.2Sds)*DL+1.0...	Yes	Y	1	.856	E...	.095	ELZ	.055										
93	(0.9-0.2Sds)*DL+1.0...	Yes	Y	1	.856	E...	.077	ELZ	.077										
94	(0.9-0.2Sds)*DL+1.0...	Yes	Y	1	.856	E...	.055	ELZ	.095										
95	(0.9-0.2Sds)*DL+1.0...	Yes	Y	1	.856	0		ELZ	.11										
96	(0.9-0.2Sds)*DL+1.0...	Yes	Y	1	.856	E...	.055	ELZ	.095										
97	(0.9-0.2Sds)*DL+1.0...	Yes	Y	1	.856	E...	.077	ELZ	.077										
98	(0.9-0.2Sds)*DL+1.0...	Yes	Y	1	.856	E...	.095	ELZ	.055										

Joint Loads and Enforced Displacements (BLC 35 : Lm)

	Joint Label	L,D,M	Direction	Magnitude(k,k-ft), (in.rad), (k*s^2/ft..)
1	N130	L	Y	-5

Joint Loads and Enforced Displacements (BLC 36 : Lv)

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

Member Point Loads (BLC 1 : Dead)

	Member Label	Direction	Magnitude(k,k-ft)	Location(ft.%)
1	MP-1	Y	-0.18	1
2	MP-1	Y	-0.02	1.5
3	MP-1	Y	-0.03	3
4	MP-2	Y	-0.24	1
5	MP-2	Y	-0.51	3
6	MP-2	Y	-0.53	3
7	MP-3	Y	-0.27	1
8	MP-3	Y	-0.26	3
9	MP-4	Y	-0.18	1
10	MP-4	Y	-0.02	1.5
11	MP-4	Y	-0.03	3
12	MP-5	Y	-0.24	1
13	MP-5	Y	-0.51	3
14	MP-5	Y	-0.53	3
15	MP-6	Y	-0.27	1
16	MP-6	Y	-0.26	3
17	MP-7	Y	-0.18	1
18	MP-7	Y	-0.02	1.5
19	MP-7	Y	-0.03	3
20	MP-8	Y	-0.24	1
21	MP-8	Y	-0.51	3
22	MP-8	Y	-0.53	3
23	MP-9	Y	-0.27	1
24	MP-9	Y	-0.26	3
25	SA-1	Y	-0.33	1
26	MP-1	Y	-0.18	5
27	MP-2	Y	-0.24	5
28	MP-3	Y	-0.27	5
29	MP-4	Y	-0.18	5
30	MP-5	Y	-0.24	5
31	MP-6	Y	-0.27	5
32	MP-7	Y	-0.18	5



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

	Member Label	Direction	Magnitude(k,k-ft)	Location(ft.%)
33	MP-8	Y	-0.24	5
34	MP-9	Y	-0.27	5

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

	Member Label	Direction	Magnitude(k,k-ft)	Location(ft.%)
1	MP-1	X	-0.71	1
2	MP-1	X	-0.1	1.5
3	MP-1	X	-0.04	3
4	MP-2	X	-1.92	1
5	MP-2	X	-0.5	3
6	MP-2	X	-0.7	3
7	MP-3	X	-1.23	1
8	MP-3	X	-0.57	3
9	MP-4	X	-0.42	1
10	MP-4	X	-0.11	1.5
11	MP-4	X	-0.03	3
12	MP-5	X	-1.21	1
13	MP-5	X	-1	3
14	MP-5	X	-1.03	3
15	MP-6	X	-0.9	1
16	MP-6	X	-0.3	3
17	MP-7	X	-0.42	1
18	MP-7	X	-0.11	1.5
19	MP-7	X	-0.03	3
20	MP-8	X	-1.21	1
21	MP-8	X	-1	3
22	MP-8	X	-1.03	3
23	MP-9	X	-0.9	1
24	MP-9	X	-0.3	3
25	SA-1	X	-0.5	1
26	MP-1	X	-0.71	5
27	MP-2	X	-1.92	5
28	MP-3	X	-1.23	5
29	MP-4	X	-0.42	5
30	MP-5	X	-1.21	5
31	MP-6	X	-0.9	5
32	MP-7	X	-0.42	5
33	MP-8	X	-1.21	5
34	MP-9	X	-0.9	5

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

	Member Label	Direction	Magnitude(k,k-ft)	Location(ft.%)
1	MP-1	X	-0.53	1
2	MP-1	X	-0.09	1.5
3	MP-1	X	-0.03	3
4	MP-2	X	-1.46	1
5	MP-2	X	-0.57	3
6	MP-2	X	-0.7	3
7	MP-3	X	-0.97	1
8	MP-3	X	-0.42	3
9	MP-4	X	-0.28	1
10	MP-4	X	-0.1	1.5
11	MP-4	X	-0.02	3
12	MP-5	X	-0.84	1
13	MP-5	X	-1.01	3
14	MP-5	X	-0.99	3



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
15	MP-6	X	-0.069	1
16	MP-6	X	-0.19	3
17	MP-7	X	-0.053	1
18	MP-7	X	-0.009	1.5
19	MP-7	X	-0.003	3
20	MP-8	X	-0.146	1
21	MP-8	X	-0.057	3
22	MP-8	X	-0.07	3
23	MP-9	X	-0.097	1
24	MP-9	X	-0.042	3
25	SA-1	X	-0.044	1
26	MP-1	X	-0.053	5
27	MP-2	X	-0.146	5
28	MP-3	X	-0.097	5
29	MP-4	X	-0.028	5
30	MP-5	X	-0.084	5
31	MP-6	X	-0.069	5
32	MP-7	X	-0.053	5
33	MP-8	X	-0.146	5
34	MP-9	X	-0.097	5
35	MP-1	Z	-0.031	1
36	MP-1	Z	-0.005	1.5
37	MP-1	Z	-0.002	3
38	MP-2	Z	-0.084	1
39	MP-2	Z	-0.033	3
40	MP-2	Z	-0.04	3
41	MP-3	Z	-0.056	1
42	MP-3	Z	-0.024	3
43	MP-4	Z	-0.016	1
44	MP-4	Z	-0.006	1.5
45	MP-4	Z	-0.001	3
46	MP-5	Z	-0.048	1
47	MP-5	Z	-0.058	3
48	MP-5	Z	-0.057	3
49	MP-6	Z	-0.04	1
50	MP-6	Z	-0.011	3
51	MP-7	Z	-0.031	1
52	MP-7	Z	-0.005	1.5
53	MP-7	Z	-0.002	3
54	MP-8	Z	-0.084	1
55	MP-8	Z	-0.033	3
56	MP-8	Z	-0.04	3
57	MP-9	Z	-0.056	1
58	MP-9	Z	-0.024	3
59	SA-1	Z	-0.025	1
60	MP-1	Z	-0.031	5
61	MP-2	Z	-0.084	5
62	MP-3	Z	-0.056	5
63	MP-4	Z	-0.016	5
64	MP-5	Z	-0.048	5
65	MP-6	Z	-0.04	5
66	MP-7	Z	-0.031	5
67	MP-8	Z	-0.084	5
68	MP-9	Z	-0.056	5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
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Member Point Loads (BLC 4 : 45 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-0.037	1
2	MP-1	X	-0.007	1.5
3	MP-1	X	-0.002	3
4	MP-2	X	-0.102	1
5	MP-2	X	-0.059	3
6	MP-2	X	-0.065	3
7	MP-3	X	-0.071	1
8	MP-3	X	-0.028	3
9	MP-4	X	-0.025	1
10	MP-4	X	-0.008	1.5
11	MP-4	X	-0.002	3
12	MP-5	X	-0.073	1
13	MP-5	X	-0.079	3
14	MP-5	X	-0.078	3
15	MP-6	X	-0.058	1
16	MP-6	X	-0.017	3
17	MP-7	X	-0.049	1
18	MP-7	X	-0.007	1.5
19	MP-7	X	-0.003	3
20	MP-8	X	-0.131	1
21	MP-8	X	-0.038	3
22	MP-8	X	-0.051	3
23	MP-9	X	-0.085	1
24	MP-9	X	-0.039	3
25	SA-1	X	-0.036	1
26	MP-1	X	-0.037	5
27	MP-2	X	-0.102	5
28	MP-3	X	-0.071	5
29	MP-4	X	-0.025	5
30	MP-5	X	-0.073	5
31	MP-6	X	-0.058	5
32	MP-7	X	-0.049	5
33	MP-8	X	-0.131	5
34	MP-9	X	-0.085	5
35	MP-1	Z	-0.037	1
36	MP-1	Z	-0.007	1.5
37	MP-1	Z	-0.002	3
38	MP-2	Z	-0.102	1
39	MP-2	Z	-0.059	3
40	MP-2	Z	-0.065	3
41	MP-3	Z	-0.071	1
42	MP-3	Z	-0.028	3
43	MP-4	Z	-0.025	1
44	MP-4	Z	-0.008	1.5
45	MP-4	Z	-0.002	3
46	MP-5	Z	-0.073	1
47	MP-5	Z	-0.079	3
48	MP-5	Z	-0.078	3
49	MP-6	Z	-0.058	1
50	MP-6	Z	-0.017	3
51	MP-7	Z	-0.049	1
52	MP-7	Z	-0.007	1.5
53	MP-7	Z	-0.003	3
54	MP-8	Z	-0.131	1
55	MP-8	Z	-0.038	3
56	MP-8	Z	-0.051	3
57	MP-9	Z	-0.085	1



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
58	MP-9	Z	-0.39	3
59	SA-1	Z	-0.36	1
60	MP-1	Z	-0.37	5
61	MP-2	Z	-1.02	5
62	MP-3	Z	-0.71	5
63	MP-4	Z	-0.25	5
64	MP-5	Z	-0.73	5
65	MP-6	Z	-0.58	5
66	MP-7	Z	-0.49	5
67	MP-8	Z	-1.31	5
68	MP-9	Z	-0.85	5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-0.21	1
2	MP-1	X	-0.05	1.5
3	MP-1	X	-0.02	3
4	MP-2	X	-0.06	1
5	MP-2	X	-0.05	3
6	MP-2	X	-0.51	3
7	MP-3	X	-0.45	1
8	MP-3	X	-0.15	3
9	MP-4	X	-0.21	1
10	MP-4	X	-0.05	1.5
11	MP-4	X	-0.02	3
12	MP-5	X	-0.06	1
13	MP-5	X	-0.05	3
14	MP-5	X	-0.51	3
15	MP-6	X	-0.45	1
16	MP-6	X	-0.15	3
17	MP-7	X	-0.36	1
18	MP-7	X	-0.05	1.5
19	MP-7	X	-0.02	3
20	MP-8	X	-0.96	1
21	MP-8	X	-0.25	3
22	MP-8	X	-0.35	3
23	MP-9	X	-0.61	1
24	MP-9	X	-0.29	3
25	SA-1	X	-0.25	1
26	MP-1	X	-0.21	5
27	MP-2	X	-0.06	5
28	MP-3	X	-0.45	5
29	MP-4	X	-0.21	5
30	MP-5	X	-0.06	5
31	MP-6	X	-0.45	5
32	MP-7	X	-0.36	5
33	MP-8	X	-0.96	5
34	MP-9	X	-0.61	5
35	MP-1	Z	-0.37	1
36	MP-1	Z	-0.09	1.5
37	MP-1	Z	-0.03	3
38	MP-2	Z	-1.05	1
39	MP-2	Z	-0.86	3
40	MP-2	Z	-0.89	3
41	MP-3	Z	-0.78	1
42	MP-3	Z	-0.26	3



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
43	MP-4	Z	-0.37	1
44	MP-4	Z	-0.09	1.5
45	MP-4	Z	-0.03	3
46	MP-5	Z	-1.05	1
47	MP-5	Z	-0.86	3
48	MP-5	Z	-0.89	3
49	MP-6	Z	-0.78	1
50	MP-6	Z	-0.26	3
51	MP-7	Z	-0.62	1
52	MP-7	Z	-0.08	1.5
53	MP-7	Z	-0.04	3
54	MP-8	Z	-1.66	1
55	MP-8	Z	-0.43	3
56	MP-8	Z	-0.06	3
57	MP-9	Z	-1.06	1
58	MP-9	Z	-0.49	3
59	SA-1	Z	-0.44	1
60	MP-1	Z	-0.37	5
61	MP-2	Z	-1.05	5
62	MP-3	Z	-0.78	5
63	MP-4	Z	-0.37	5
64	MP-5	Z	-1.05	5
65	MP-6	Z	-0.78	5
66	MP-7	Z	-0.62	5
67	MP-8	Z	-1.66	5
68	MP-9	Z	-1.06	5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Z	-0.33	1
2	MP-1	Z	-0.11	1.5
3	MP-1	Z	-0.03	3
4	MP-2	Z	-0.97	1
5	MP-2	Z	-1.16	3
6	MP-2	Z	-1.14	3
7	MP-3	Z	-0.08	1
8	MP-3	Z	-0.22	3
9	MP-4	Z	-0.62	1
10	MP-4	Z	-0.01	1.5
11	MP-4	Z	-0.04	3
12	MP-5	Z	-1.68	1
13	MP-5	Z	-0.66	3
14	MP-5	Z	-0.81	3
15	MP-6	Z	-1.12	1
16	MP-6	Z	-0.48	3
17	MP-7	Z	-0.62	1
18	MP-7	Z	-0.01	1.5
19	MP-7	Z	-0.04	3
20	MP-8	Z	-1.68	1
21	MP-8	Z	-0.66	3
22	MP-8	Z	-0.81	3
23	MP-9	Z	-1.12	1
24	MP-9	Z	-0.48	3
25	SA-1	Z	-0.05	1
26	MP-1	Z	-0.33	5
27	MP-2	Z	-0.97	5



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
28	MP-3	Z	-08	5
29	MP-4	Z	-062	5
30	MP-5	Z	-168	5
31	MP-6	Z	-112	5
32	MP-7	Z	-062	5
33	MP-8	Z	-168	5
34	MP-9	Z	-112	5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.021	1
2	MP-1	X	.005	1.5
3	MP-1	X	.002	3
4	MP-2	X	.06	1
5	MP-2	X	.05	3
6	MP-2	X	.051	3
7	MP-3	X	.045	1
8	MP-3	X	.015	3
9	MP-4	X	.036	1
10	MP-4	X	.005	1.5
11	MP-4	X	.002	3
12	MP-5	X	.096	1
13	MP-5	X	.025	3
14	MP-5	X	.035	3
15	MP-6	X	.061	1
16	MP-6	X	.029	3
17	MP-7	X	.021	1
18	MP-7	X	.005	1.5
19	MP-7	X	.002	3
20	MP-8	X	.06	1
21	MP-8	X	.05	3
22	MP-8	X	.051	3
23	MP-9	X	.045	1
24	MP-9	X	.015	3
25	SA-1	X	.025	1
26	MP-1	X	.021	5
27	MP-2	X	.06	5
28	MP-3	X	.045	5
29	MP-4	X	.036	5
30	MP-5	X	.096	5
31	MP-6	X	.061	5
32	MP-7	X	.021	5
33	MP-8	X	.06	5
34	MP-9	X	.045	5
35	MP-1	Z	-.037	1
36	MP-1	Z	-.009	1.5
37	MP-1	Z	-.003	3
38	MP-2	Z	-.105	1
39	MP-2	Z	-.086	3
40	MP-2	Z	-.089	3
41	MP-3	Z	-.078	1
42	MP-3	Z	-.026	3
43	MP-4	Z	-.062	1
44	MP-4	Z	-.008	1.5
45	MP-4	Z	-.004	3
46	MP-5	Z	-.166	1



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
47	MP-5	Z	-.043	3
48	MP-5	Z	-.06	3
49	MP-6	Z	-.106	1
50	MP-6	Z	-.049	3
51	MP-7	Z	-.037	1
52	MP-7	Z	-.009	1.5
53	MP-7	Z	-.003	3
54	MP-8	Z	-.105	1
55	MP-8	Z	-.086	3
56	MP-8	Z	-.089	3
57	MP-9	Z	-.078	1
58	MP-9	Z	-.026	3
59	SA-1	Z	-.044	1
60	MP-1	Z	-.037	5
61	MP-2	Z	-.105	5
62	MP-3	Z	-.078	5
63	MP-4	Z	-.062	5
64	MP-5	Z	-.166	5
65	MP-6	Z	-.106	5
66	MP-7	Z	-.037	5
67	MP-8	Z	-.105	5
68	MP-9	Z	-.078	5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.037	1
2	MP-1	X	.007	1.5
3	MP-1	X	.002	3
4	MP-2	X	.102	1
5	MP-2	X	.059	3
6	MP-2	X	.065	3
7	MP-3	X	.071	1
8	MP-3	X	.028	3
9	MP-4	X	.049	1
10	MP-4	X	.007	1.5
11	MP-4	X	.003	3
12	MP-5	X	.131	1
13	MP-5	X	.038	3
14	MP-5	X	.051	3
15	MP-6	X	.085	1
16	MP-6	X	.039	3
17	MP-7	X	.025	1
18	MP-7	X	.008	1.5
19	MP-7	X	.002	3
20	MP-8	X	.073	1
21	MP-8	X	.079	3
22	MP-8	X	.078	3
23	MP-9	X	.058	1
24	MP-9	X	.017	3
25	SA-1	X	.036	1
26	MP-1	X	.037	5
27	MP-2	X	.102	5
28	MP-3	X	.071	5
29	MP-4	X	.049	5
30	MP-5	X	.131	5
31	MP-6	X	.085	5



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
32	MP-7	X	.025	5
33	MP-8	X	.073	5
34	MP-9	X	.058	5
35	MP-1	Z	-.037	1
36	MP-1	Z	-.007	1.5
37	MP-1	Z	-.002	3
38	MP-2	Z	-.102	1
39	MP-2	Z	-.059	3
40	MP-2	Z	-.065	3
41	MP-3	Z	-.071	1
42	MP-3	Z	-.028	3
43	MP-4	Z	-.049	1
44	MP-4	Z	-.007	1.5
45	MP-4	Z	-.003	3
46	MP-5	Z	-.131	1
47	MP-5	Z	-.038	3
48	MP-5	Z	-.051	3
49	MP-6	Z	-.085	1
50	MP-6	Z	-.039	3
51	MP-7	Z	-.025	1
52	MP-7	Z	-.008	1.5
53	MP-7	Z	-.002	3
54	MP-8	Z	-.073	1
55	MP-8	Z	-.079	3
56	MP-8	Z	-.078	3
57	MP-9	Z	-.058	1
58	MP-9	Z	-.017	3
59	SA-1	Z	-.036	1
60	MP-1	Z	-.037	5
61	MP-2	Z	-.102	5
62	MP-3	Z	-.071	5
63	MP-4	Z	-.049	5
64	MP-5	Z	-.131	5
65	MP-6	Z	-.085	5
66	MP-7	Z	-.025	5
67	MP-8	Z	-.073	5
68	MP-9	Z	-.058	5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.053	1
2	MP-1	X	.009	1.5
3	MP-1	X	.003	3
4	MP-2	X	.146	1
5	MP-2	X	.057	3
6	MP-2	X	.07	3
7	MP-3	X	.097	1
8	MP-3	X	.042	3
9	MP-4	X	.053	1
10	MP-4	X	.009	1.5
11	MP-4	X	.003	3
12	MP-5	X	.146	1
13	MP-5	X	.057	3
14	MP-5	X	.07	3
15	MP-6	X	.097	1
16	MP-6	X	.042	3



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
17	MP-7	X	.028	1
18	MP-7	X	.01	1.5
19	MP-7	X	.002	3
20	MP-8	X	.084	1
21	MP-8	X	-.101	3
22	MP-8	X	.099	3
23	MP-9	X	.069	1
24	MP-9	X	.019	3
25	SA-1	X	.044	1
26	MP-1	X	.053	5
27	MP-2	X	.146	5
28	MP-3	X	.097	5
29	MP-4	X	.053	5
30	MP-5	X	.146	5
31	MP-6	X	.097	5
32	MP-7	X	.028	5
33	MP-8	X	.084	5
34	MP-9	X	.069	5
35	MP-1	Z	-.031	1
36	MP-1	Z	-.005	1.5
37	MP-1	Z	-.002	3
38	MP-2	Z	-.084	1
39	MP-2	Z	-.033	3
40	MP-2	Z	-.04	3
41	MP-3	Z	-.056	1
42	MP-3	Z	-.024	3
43	MP-4	Z	-.031	1
44	MP-4	Z	-.005	1.5
45	MP-4	Z	-.002	3
46	MP-5	Z	-.084	1
47	MP-5	Z	-.033	3
48	MP-5	Z	-.04	3
49	MP-6	Z	-.056	1
50	MP-6	Z	-.024	3
51	MP-7	Z	-.016	1
52	MP-7	Z	-.006	1.5
53	MP-7	Z	-.001	3
54	MP-8	Z	-.048	1
55	MP-8	Z	-.058	3
56	MP-8	Z	-.057	3
57	MP-9	Z	-.04	1
58	MP-9	Z	-.011	3
59	SA-1	Z	-.025	1
60	MP-1	Z	-.031	5
61	MP-2	Z	-.084	5
62	MP-3	Z	-.056	5
63	MP-4	Z	-.031	5
64	MP-5	Z	-.084	5
65	MP-6	Z	-.056	5
66	MP-7	Z	-.016	5
67	MP-8	Z	-.048	5
68	MP-9	Z	-.04	5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.071	1



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
2	MP-1	X	.01	1.5
3	MP-1	X	.004	3
4	MP-2	X	.192	1
5	MP-2	X	.05	3
6	MP-2	X	.07	3
7	MP-3	X	.123	1
8	MP-3	X	.057	3
9	MP-4	X	.042	1
10	MP-4	X	.011	1.5
11	MP-4	X	.003	3
12	MP-5	X	.121	1
13	MP-5	X	.1	3
14	MP-5	X	.103	3
15	MP-6	X	.09	1
16	MP-6	X	.03	3
17	MP-7	X	.042	1
18	MP-7	X	.011	1.5
19	MP-7	X	.003	3
20	MP-8	X	.121	1
21	MP-8	X	.1	3
22	MP-8	X	.103	3
23	MP-9	X	.09	1
24	MP-9	X	.03	3
25	SA-1	X	.05	1
26	MP-1	X	.071	5
27	MP-2	X	.192	5
28	MP-3	X	.123	5
29	MP-4	X	.042	5
30	MP-5	X	.121	5
31	MP-6	X	.09	5
32	MP-7	X	.042	5
33	MP-8	X	.121	5
34	MP-9	X	.09	5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.053	1
2	MP-1	X	.009	1.5
3	MP-1	X	.003	3
4	MP-2	X	.146	1
5	MP-2	X	.057	3
6	MP-2	X	.07	3
7	MP-3	X	.097	1
8	MP-3	X	.042	3
9	MP-4	X	.028	1
10	MP-4	X	.01	1.5
11	MP-4	X	.002	3
12	MP-5	X	.084	1
13	MP-5	X	.101	3
14	MP-5	X	.099	3
15	MP-6	X	.069	1
16	MP-6	X	.019	3
17	MP-7	X	.053	1
18	MP-7	X	.009	1.5
19	MP-7	X	.003	3
20	MP-8	X	.146	1



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
21	MP-8	X	.057	3
22	MP-8	X	.07	3
23	MP-9	X	.097	1
24	MP-9	X	.042	3
25	SA-1	X	.044	1
26	MP-1	X	.053	5
27	MP-2	X	.146	5
28	MP-3	X	.097	5
29	MP-4	X	.028	5
30	MP-5	X	.084	5
31	MP-6	X	.069	5
32	MP-7	X	.053	5
33	MP-8	X	.146	5
34	MP-9	X	.097	5
35	MP-1	Z	.031	1
36	MP-1	Z	.005	1.5
37	MP-1	Z	.002	3
38	MP-2	Z	.084	1
39	MP-2	Z	.033	3
40	MP-2	Z	.04	3
41	MP-3	Z	.056	1
42	MP-3	Z	.024	3
43	MP-4	Z	.016	1
44	MP-4	Z	.006	1.5
45	MP-4	Z	.001	3
46	MP-5	Z	.048	1
47	MP-5	Z	.058	3
48	MP-5	Z	.057	3
49	MP-6	Z	.04	1
50	MP-6	Z	.011	3
51	MP-7	Z	.031	1
52	MP-7	Z	.005	1.5
53	MP-7	Z	.002	3
54	MP-8	Z	.084	1
55	MP-8	Z	.033	3
56	MP-8	Z	.04	3
57	MP-9	Z	.056	1
58	MP-9	Z	.024	3
59	SA-1	Z	.025	1
60	MP-1	Z	.031	5
61	MP-2	Z	.084	5
62	MP-3	Z	.056	5
63	MP-4	Z	.016	5
64	MP-5	Z	.048	5
65	MP-6	Z	.04	5
66	MP-7	Z	.031	5
67	MP-8	Z	.084	5
68	MP-9	Z	.056	5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.037	1
2	MP-1	X	.007	1.5
3	MP-1	X	.002	3
4	MP-2	X	.102	1
5	MP-2	X	.059	3



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
6	MP-2	X	.065	3
7	MP-3	X	.071	1
8	MP-3	X	.028	3
9	MP-4	X	.025	1
10	MP-4	X	.008	1.5
11	MP-4	X	.002	3
12	MP-5	X	.073	1
13	MP-5	X	.079	3
14	MP-5	X	.078	3
15	MP-6	X	.058	1
16	MP-6	X	.017	3
17	MP-7	X	.049	1
18	MP-7	X	.007	1.5
19	MP-7	X	.003	3
20	MP-8	X	.131	1
21	MP-8	X	.038	3
22	MP-8	X	.051	3
23	MP-9	X	.085	1
24	MP-9	X	.039	3
25	SA-1	X	.036	1
26	MP-1	X	.037	5
27	MP-2	X	.102	5
28	MP-3	X	.071	5
29	MP-4	X	.025	5
30	MP-5	X	.073	5
31	MP-6	X	.058	5
32	MP-7	X	.049	5
33	MP-8	X	.131	5
34	MP-9	X	.085	5
35	MP-1	Z	.037	1
36	MP-1	Z	.007	1.5
37	MP-1	Z	.002	3
38	MP-2	Z	.102	1
39	MP-2	Z	.059	3
40	MP-2	Z	.065	3
41	MP-3	Z	.071	1
42	MP-3	Z	.028	3
43	MP-4	Z	.025	1
44	MP-4	Z	.008	1.5
45	MP-4	Z	.002	3
46	MP-5	Z	.073	1
47	MP-5	Z	.079	3
48	MP-5	Z	.078	3
49	MP-6	Z	.058	1
50	MP-6	Z	.017	3
51	MP-7	Z	.049	1
52	MP-7	Z	.007	1.5
53	MP-7	Z	.003	3
54	MP-8	Z	.131	1
55	MP-8	Z	.038	3
56	MP-8	Z	.051	3
57	MP-9	Z	.085	1
58	MP-9	Z	.039	3
59	SA-1	Z	.036	1
60	MP-1	Z	.037	5
61	MP-2	Z	.102	5
62	MP-3	Z	.071	5



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
63	MP-4	Z	.025	5
64	MP-5	Z	.073	5
65	MP-6	Z	.058	5
66	MP-7	Z	.049	5
67	MP-8	Z	.131	5
68	MP-9	Z	.085	5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.021	1
2	MP-1	X	.005	1.5
3	MP-1	X	.002	3
4	MP-2	X	.06	1
5	MP-2	X	.05	3
6	MP-2	X	.051	3
7	MP-3	X	.045	1
8	MP-3	X	.015	3
9	MP-4	X	.021	1
10	MP-4	X	.005	1.5
11	MP-4	X	.002	3
12	MP-5	X	.06	1
13	MP-5	X	.05	3
14	MP-5	X	.051	3
15	MP-6	X	.045	1
16	MP-6	X	.015	3
17	MP-7	X	.036	1
18	MP-7	X	.005	1.5
19	MP-7	X	.002	3
20	MP-8	X	.096	1
21	MP-8	X	.025	3
22	MP-8	X	.035	3
23	MP-9	X	.061	1
24	MP-9	X	.029	3
25	SA-1	X	.025	1
26	MP-1	X	.021	5
27	MP-2	X	.06	5
28	MP-3	X	.045	5
29	MP-4	X	.021	5
30	MP-5	X	.06	5
31	MP-6	X	.045	5
32	MP-7	X	.036	5
33	MP-8	X	.096	5
34	MP-9	X	.061	5
35	MP-1	Z	.037	1
36	MP-1	Z	.009	1.5
37	MP-1	Z	.003	3
38	MP-2	Z	.105	1
39	MP-2	Z	.086	3
40	MP-2	Z	.089	3
41	MP-3	Z	.078	1
42	MP-3	Z	.026	3
43	MP-4	Z	.037	1
44	MP-4	Z	.009	1.5
45	MP-4	Z	.003	3
46	MP-5	Z	.105	1
47	MP-5	Z	.086	3



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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-5	Z	.089	3
49	MP-6	Z	.078	1
50	MP-6	Z	.026	3
51	MP-7	Z	.062	1
52	MP-7	Z	.008	1.5
53	MP-7	Z	.004	3
54	MP-8	Z	.166	1
55	MP-8	Z	.043	3
56	MP-8	Z	.06	3
57	MP-9	Z	.106	1
58	MP-9	Z	.049	3
59	SA-1	Z	.044	1
60	MP-1	Z	.037	5
61	MP-2	Z	.105	5
62	MP-3	Z	.078	5
63	MP-4	Z	.037	5
64	MP-5	Z	.105	5
65	MP-6	Z	.078	5
66	MP-7	Z	.062	5
67	MP-8	Z	.166	5
68	MP-9	Z	.106	5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Z	.033	1
2	MP-1	Z	.011	1.5
3	MP-1	Z	.003	3
4	MP-2	Z	.097	1
5	MP-2	Z	.116	3
6	MP-2	Z	.114	3
7	MP-3	Z	.08	1
8	MP-3	Z	.022	3
9	MP-4	Z	.062	1
10	MP-4	Z	.01	1.5
11	MP-4	Z	.004	3
12	MP-5	Z	.168	1
13	MP-5	Z	.066	3
14	MP-5	Z	.081	3
15	MP-6	Z	.112	1
16	MP-6	Z	.048	3
17	MP-7	Z	.062	1
18	MP-7	Z	.01	1.5
19	MP-7	Z	.004	3
20	MP-8	Z	.168	1
21	MP-8	Z	.066	3
22	MP-8	Z	.081	3
23	MP-9	Z	.112	1
24	MP-9	Z	.048	3
25	SA-1	Z	.05	1
26	MP-1	Z	.033	5
27	MP-2	Z	.097	5
28	MP-3	Z	.08	5
29	MP-4	Z	.062	5
30	MP-5	Z	.168	5
31	MP-6	Z	.112	5
32	MP-7	Z	.062	5



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
33	MP-8	Z	.168	5
34	MP-9	Z	.112	5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.021	1
2	MP-1	X	-.005	1.5
3	MP-1	X	-.002	3
4	MP-2	X	-.06	1
5	MP-2	X	-.05	3
6	MP-2	X	-.051	3
7	MP-3	X	-.045	1
8	MP-3	X	-.015	3
9	MP-4	X	-.036	1
10	MP-4	X	-.005	1.5
11	MP-4	X	-.002	3
12	MP-5	X	-.096	1
13	MP-5	X	-.025	3
14	MP-5	X	-.035	3
15	MP-6	X	-.061	1
16	MP-6	X	-.029	3
17	MP-7	X	-.021	1
18	MP-7	X	-.005	1.5
19	MP-7	X	-.002	3
20	MP-8	X	-.06	1
21	MP-8	X	-.05	3
22	MP-8	X	-.051	3
23	MP-9	X	-.045	1
24	MP-9	X	-.015	3
25	SA-1	X	-.025	1
26	MP-1	X	-.021	5
27	MP-2	X	-.06	5
28	MP-3	X	-.045	5
29	MP-4	X	-.036	5
30	MP-5	X	-.096	5
31	MP-6	X	-.061	5
32	MP-7	X	-.021	5
33	MP-8	X	-.06	5
34	MP-9	X	-.045	5
35	MP-1	Z	.037	1
36	MP-1	Z	.009	1.5
37	MP-1	Z	.003	3
38	MP-2	Z	.105	1
39	MP-2	Z	.086	3
40	MP-2	Z	.089	3
41	MP-3	Z	.078	1
42	MP-3	Z	.026	3
43	MP-4	Z	.062	1
44	MP-4	Z	.008	1.5
45	MP-4	Z	.004	3
46	MP-5	Z	.166	1
47	MP-5	Z	.043	3
48	MP-5	Z	.06	3
49	MP-6	Z	.106	1
50	MP-6	Z	.049	3
51	MP-7	Z	.037	1



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
52	MP-7	Z	.009	1.5
53	MP-7	Z	.003	3
54	MP-8	Z	.105	1
55	MP-8	Z	.086	3
56	MP-8	Z	.089	3
57	MP-9	Z	.078	1
58	MP-9	Z	.026	3
59	SA-1	Z	.044	1
60	MP-1	Z	.037	5
61	MP-2	Z	.105	5
62	MP-3	Z	.078	5
63	MP-4	Z	.062	5
64	MP-5	Z	.166	5
65	MP-6	Z	.106	5
66	MP-7	Z	.037	5
67	MP-8	Z	.105	5
68	MP-9	Z	.078	5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.037	1
2	MP-1	X	-.007	1.5
3	MP-1	X	-.002	3
4	MP-2	X	-.102	1
5	MP-2	X	-.059	3
6	MP-2	X	-.065	3
7	MP-3	X	-.071	1
8	MP-3	X	-.028	3
9	MP-4	X	-.049	1
10	MP-4	X	-.007	1.5
11	MP-4	X	-.003	3
12	MP-5	X	-.131	1
13	MP-5	X	-.038	3
14	MP-5	X	-.051	3
15	MP-6	X	-.085	1
16	MP-6	X	-.039	3
17	MP-7	X	-.025	1
18	MP-7	X	-.008	1.5
19	MP-7	X	-.002	3
20	MP-8	X	-.073	1
21	MP-8	X	-.079	3
22	MP-8	X	-.078	3
23	MP-9	X	-.058	1
24	MP-9	X	-.017	3
25	SA-1	X	-.036	1
26	MP-1	X	-.037	5
27	MP-2	X	-.102	5
28	MP-3	X	-.071	5
29	MP-4	X	-.049	5
30	MP-5	X	-.131	5
31	MP-6	X	-.085	5
32	MP-7	X	-.025	5
33	MP-8	X	-.073	5
34	MP-9	X	-.058	5
35	MP-1	Z	.037	1
36	MP-1	Z	.007	1.5



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
37	MP-1	Z	.002	3
38	MP-2	Z	.102	1
39	MP-2	Z	.059	3
40	MP-2	Z	.065	3
41	MP-3	Z	.071	1
42	MP-3	Z	.028	3
43	MP-4	Z	.049	1
44	MP-4	Z	.007	1.5
45	MP-4	Z	.003	3
46	MP-5	Z	.131	1
47	MP-5	Z	.038	3
48	MP-5	Z	.051	3
49	MP-6	Z	.085	1
50	MP-6	Z	.039	3
51	MP-7	Z	.025	1
52	MP-7	Z	.008	1.5
53	MP-7	Z	.002	3
54	MP-8	Z	.073	1
55	MP-8	Z	.079	3
56	MP-8	Z	.078	3
57	MP-9	Z	.058	1
58	MP-9	Z	.017	3
59	SA-1	Z	.036	1
60	MP-1	Z	.037	5
61	MP-2	Z	.102	5
62	MP-3	Z	.071	5
63	MP-4	Z	.049	5
64	MP-5	Z	.131	5
65	MP-6	Z	.085	5
66	MP-7	Z	.025	5
67	MP-8	Z	.073	5
68	MP-9	Z	.058	5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.053	1
2	MP-1	X	-.009	1.5
3	MP-1	X	-.003	3
4	MP-2	X	-.146	1
5	MP-2	X	-.057	3
6	MP-2	X	-.07	3
7	MP-3	X	-.097	1
8	MP-3	X	-.042	3
9	MP-4	X	-.053	1
10	MP-4	X	-.009	1.5
11	MP-4	X	-.003	3
12	MP-5	X	-.146	1
13	MP-5	X	-.057	3
14	MP-5	X	-.07	3
15	MP-6	X	-.097	1
16	MP-6	X	-.042	3
17	MP-7	X	-.028	1
18	MP-7	X	-.01	1.5
19	MP-7	X	-.002	3
20	MP-8	X	-.084	1
21	MP-8	X	-.101	3



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
22	MP-8	X	-0.99	3
23	MP-9	X	-0.69	1
24	MP-9	X	-0.19	3
25	SA-1	X	-0.44	1
26	MP-1	X	-0.53	5
27	MP-2	X	-1.46	5
28	MP-3	X	-0.97	5
29	MP-4	X	-0.53	5
30	MP-5	X	-1.46	5
31	MP-6	X	-0.97	5
32	MP-7	X	-0.28	5
33	MP-8	X	-0.84	5
34	MP-9	X	-0.69	5
35	MP-1	Z	.031	1
36	MP-1	Z	.005	1.5
37	MP-1	Z	.002	3
38	MP-2	Z	.084	1
39	MP-2	Z	.033	3
40	MP-2	Z	.04	3
41	MP-3	Z	.056	1
42	MP-3	Z	.024	3
43	MP-4	Z	.031	1
44	MP-4	Z	.005	1.5
45	MP-4	Z	.002	3
46	MP-5	Z	.084	1
47	MP-5	Z	.033	3
48	MP-5	Z	.04	3
49	MP-6	Z	.056	1
50	MP-6	Z	.024	3
51	MP-7	Z	.016	1
52	MP-7	Z	.006	1.5
53	MP-7	Z	.001	3
54	MP-8	Z	.048	1
55	MP-8	Z	.058	3
56	MP-8	Z	.057	3
57	MP-9	Z	.04	1
58	MP-9	Z	.011	3
59	SA-1	Z	.025	1
60	MP-1	Z	.031	5
61	MP-2	Z	.084	5
62	MP-3	Z	.056	5
63	MP-4	Z	.031	5
64	MP-5	Z	.084	5
65	MP-6	Z	.056	5
66	MP-7	Z	.016	5
67	MP-8	Z	.048	5
68	MP-9	Z	.04	5

Member Point Loads (BLC 18 : Ice Weight)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Y	-0.41	1
2	MP-1	Y	-0.1	1.5
3	MP-1	Y	-0.04	3
4	MP-2	Y	-0.77	1
5	MP-2	Y	-0.52	3
6	MP-2	Y	-0.53	3



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
7	MP-3	Y	-0.62	1
8	MP-3	Y	-0.26	3
9	MP-4	Y	-0.41	1
10	MP-4	Y	-0.1	1.5
11	MP-4	Y	-0.04	3
12	MP-5	Y	-0.77	1
13	MP-5	Y	-0.52	3
14	MP-5	Y	-0.53	3
15	MP-6	Y	-0.62	1
16	MP-6	Y	-0.26	3
17	MP-7	Y	-0.41	1
18	MP-7	Y	-0.1	1.5
19	MP-7	Y	-0.04	3
20	MP-8	Y	-0.77	1
21	MP-8	Y	-0.52	3
22	MP-8	Y	-0.53	3
23	MP-9	Y	-0.62	1
24	MP-9	Y	-0.26	3
25	SA-1	Y	-0.47	1
26	MP-1	Y	-0.41	5
27	MP-2	Y	-0.77	5
28	MP-3	Y	-0.62	5
29	MP-4	Y	-0.41	5
30	MP-5	Y	-0.77	5
31	MP-6	Y	-0.62	5
32	MP-7	Y	-0.41	5
33	MP-8	Y	-0.77	5
34	MP-9	Y	-0.62	5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-0.2	1
2	MP-1	X	-0.05	1.5
3	MP-1	X	-0.02	3
4	MP-2	X	-0.39	1
5	MP-2	X	-0.26	3
6	MP-2	X	-0.25	3
7	MP-3	X	-0.26	1
8	MP-3	X	-0.14	3
9	MP-4	X	-0.2	1
10	MP-4	X	-0.05	1.5
11	MP-4	X	-0.02	3
12	MP-5	X	-0.39	1
13	MP-5	X	-0.26	3
14	MP-5	X	-0.25	3
15	MP-6	X	-0.26	1
16	MP-6	X	-0.14	3
17	MP-7	X	-0.2	1
18	MP-7	X	-0.05	1.5
19	MP-7	X	-0.02	3
20	MP-8	X	-0.39	1
21	MP-8	X	-0.26	3
22	MP-8	X	-0.25	3
23	MP-9	X	-0.26	1
24	MP-9	X	-0.14	3
25	SA-1	X	-0.11	1



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
26	MP-1	X	-02	5
27	MP-2	X	-039	5
28	MP-3	X	-026	5
29	MP-4	X	-02	5
30	MP-5	X	-039	5
31	MP-6	X	-026	5
32	MP-7	X	-02	5
33	MP-8	X	-039	5
34	MP-9	X	-026	5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-015	1
2	MP-1	X	-004	1.5
3	MP-1	X	-002	3
4	MP-2	X	-03	1
5	MP-2	X	-014	3
6	MP-2	X	-017	3
7	MP-3	X	-02	1
8	MP-3	X	-01	3
9	MP-4	X	-009	1
10	MP-4	X	-004	1.5
11	MP-4	X	-001	3
12	MP-5	X	-019	1
13	MP-5	X	-022	3
14	MP-5	X	-022	3
15	MP-6	X	-016	1
16	MP-6	X	-006	3
17	MP-7	X	-015	1
18	MP-7	X	-004	1.5
19	MP-7	X	-002	3
20	MP-8	X	-03	1
21	MP-8	X	-014	3
22	MP-8	X	-017	3
23	MP-9	X	-02	1
24	MP-9	X	-01	3
25	SA-1	X	-01	1
26	MP-1	X	-015	5
27	MP-2	X	-03	5
28	MP-3	X	-02	5
29	MP-4	X	-009	5
30	MP-5	X	-019	5
31	MP-6	X	-016	5
32	MP-7	X	-015	5
33	MP-8	X	-03	5
34	MP-9	X	-02	5
35	MP-1	Z	-009	1
36	MP-1	Z	-002	1.5
37	MP-1	Z	-000986	3
38	MP-2	Z	-017	1
39	MP-2	Z	-008	3
40	MP-2	Z	-01	3
41	MP-3	Z	-012	1
42	MP-3	Z	-006	3
43	MP-4	Z	-005	1
44	MP-4	Z	-003	1.5



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
45	MP-4	Z	-000793	3
46	MP-5	Z	-011	1
47	MP-5	Z	-013	3
48	MP-5	Z	-013	3
49	MP-6	Z	-009	1
50	MP-6	Z	-003	3
51	MP-7	Z	-009	1
52	MP-7	Z	-002	1.5
53	MP-7	Z	-000986	3
54	MP-8	Z	-017	1
55	MP-8	Z	-008	3
56	MP-8	Z	-01	3
57	MP-9	Z	-012	1
58	MP-9	Z	-006	3
59	SA-1	Z	-006	1
60	MP-1	Z	-009	5
61	MP-2	Z	-017	5
62	MP-3	Z	-012	5
63	MP-4	Z	-005	5
64	MP-5	Z	-011	5
65	MP-6	Z	-009	5
66	MP-7	Z	-009	5
67	MP-8	Z	-017	5
68	MP-9	Z	-012	5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-011	1
2	MP-1	X	-003	1.5
3	MP-1	X	-001	3
4	MP-2	X	-022	1
5	MP-2	X	-013	3
6	MP-2	X	-015	3
7	MP-3	X	-015	1
8	MP-3	X	-007	3
9	MP-4	X	-008	1
10	MP-4	X	-004	1.5
11	MP-4	X	-001	3
12	MP-5	X	-016	1
13	MP-5	X	-017	3
14	MP-5	X	-018	3
15	MP-6	X	-013	1
16	MP-6	X	-005	3
17	MP-7	X	-014	1
18	MP-7	X	-003	1.5
19	MP-7	X	-001	3
20	MP-8	X	-027	1
21	MP-8	X	-01	3
22	MP-8	X	-012	3
23	MP-9	X	-018	1
24	MP-9	X	-009	3
25	SA-1	X	-008	1
26	MP-1	X	-011	5
27	MP-2	X	-022	5
28	MP-3	X	-015	5
29	MP-4	X	-008	5



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
30	MP-5	X	-0.16	5
31	MP-6	X	-0.13	5
32	MP-7	X	-0.14	5
33	MP-8	X	-0.27	5
34	MP-9	X	-0.18	5
35	MP-1	Z	-0.11	1
36	MP-1	Z	-0.03	1.5
37	MP-1	Z	-0.01	3
38	MP-2	Z	-0.22	1
39	MP-2	Z	-0.13	3
40	MP-2	Z	-0.15	3
41	MP-3	Z	-0.15	1
42	MP-3	Z	-0.07	3
43	MP-4	Z	-0.08	1
44	MP-4	Z	-0.04	1.5
45	MP-4	Z	-0.01	3
46	MP-5	Z	-0.16	1
47	MP-5	Z	-0.17	3
48	MP-5	Z	-0.18	3
49	MP-6	Z	-0.13	1
50	MP-6	Z	-0.05	3
51	MP-7	Z	-0.14	1
52	MP-7	Z	-0.03	1.5
53	MP-7	Z	-0.01	3
54	MP-8	Z	-0.27	1
55	MP-8	Z	-0.1	3
56	MP-8	Z	-0.12	3
57	MP-9	Z	-0.18	1
58	MP-9	Z	-0.09	3
59	SA-1	Z	-0.08	1
60	MP-1	Z	-0.11	5
61	MP-2	Z	-0.22	5
62	MP-3	Z	-0.15	5
63	MP-4	Z	-0.08	5
64	MP-5	Z	-0.16	5
65	MP-6	Z	-0.13	5
66	MP-7	Z	-0.14	5
67	MP-8	Z	-0.27	5
68	MP-9	Z	-0.18	5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-0.06	1
2	MP-1	X	-0.03	1.5
3	MP-1	X	-0.00857	3
4	MP-2	X	-0.13	1
5	MP-2	X	-0.11	3
6	MP-2	X	-0.12	3
7	MP-3	X	-0.1	1
8	MP-3	X	-0.04	3
9	MP-4	X	-0.06	1
10	MP-4	X	-0.03	1.5
11	MP-4	X	-0.00857	3
12	MP-5	X	-0.13	1
13	MP-5	X	-0.11	3
14	MP-5	X	-0.12	3



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
15	MP-6	X	-0.1	1
16	MP-6	X	-0.004	3
17	MP-7	X	-0.1	1
18	MP-7	X	-0.002	1.5
19	MP-7	X	-0.01	3
20	MP-8	X	-0.2	1
21	MP-8	X	-0.006	3
22	MP-8	X	-0.008	3
23	MP-9	X	-0.13	1
24	MP-9	X	-0.007	3
25	SA-1	X	-0.006	1
26	MP-1	X	-0.006	5
27	MP-2	X	-0.13	5
28	MP-3	X	-0.1	5
29	MP-4	X	-0.006	5
30	MP-5	X	-0.13	5
31	MP-6	X	-0.1	5
32	MP-7	X	-0.1	5
33	MP-8	X	-0.2	5
34	MP-9	X	-0.13	5
35	MP-1	Z	-0.11	1
36	MP-1	Z	-0.04	1.5
37	MP-1	Z	-0.01	3
38	MP-2	Z	-0.23	1
39	MP-2	Z	-0.19	3
40	MP-2	Z	-0.2	3
41	MP-3	Z	-0.17	1
42	MP-3	Z	-0.07	3
43	MP-4	Z	-0.11	1
44	MP-4	Z	-0.04	1.5
45	MP-4	Z	-0.01	3
46	MP-5	Z	-0.23	1
47	MP-5	Z	-0.19	3
48	MP-5	Z	-0.2	3
49	MP-6	Z	-0.17	1
50	MP-6	Z	-0.07	3
51	MP-7	Z	-0.17	1
52	MP-7	Z	-0.04	1.5
53	MP-7	Z	-0.02	3
54	MP-8	Z	-0.34	1
55	MP-8	Z	-0.11	3
56	MP-8	Z	-0.15	3
57	MP-9	Z	-0.22	1
58	MP-9	Z	-0.12	3
59	SA-1	Z	-0.1	1
60	MP-1	Z	-0.11	5
61	MP-2	Z	-0.23	5
62	MP-3	Z	-0.17	5
63	MP-4	Z	-0.11	5
64	MP-5	Z	-0.23	5
65	MP-6	Z	-0.17	5
66	MP-7	Z	-0.17	5
67	MP-8	Z	-0.34	5
68	MP-9	Z	-0.22	5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
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Member Point Loads (BLC 23 : 90 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Z	-0.11	1
2	MP-1	Z	-0.005	1.5
3	MP-1	Z	-0.002	3
4	MP-2	Z	-0.022	1
5	MP-2	Z	-0.13	3
6	MP-2	Z	-0.17	3
7	MP-3	Z	-0.18	1
8	MP-3	Z	-0.07	3
9	MP-4	Z	-0.11	1
10	MP-4	Z	-0.005	1.5
11	MP-4	Z	-0.002	3
12	MP-5	Z	-0.022	1
13	MP-5	Z	-0.13	3
14	MP-5	Z	-0.17	3
15	MP-6	Z	-0.18	1
16	MP-6	Z	-0.07	3
17	MP-7	Z	-0.11	1
18	MP-7	Z	-0.005	1.5
19	MP-7	Z	-0.002	3
20	MP-8	Z	-0.022	1
21	MP-8	Z	-0.13	3
22	MP-8	Z	-0.17	3
23	MP-9	Z	-0.18	1
24	MP-9	Z	-0.07	3
25	SA-1	Z	-0.11	1
26	MP-1	Z	-0.11	5
27	MP-2	Z	-0.022	5
28	MP-3	Z	-0.18	5
29	MP-4	Z	-0.11	5
30	MP-5	Z	-0.022	5
31	MP-6	Z	-0.18	5
32	MP-7	Z	-0.11	5
33	MP-8	Z	-0.022	5
34	MP-9	Z	-0.18	5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.006	1
2	MP-1	X	.003	1.5
3	MP-1	X	.000857	3
4	MP-2	X	.013	1
5	MP-2	X	.011	3
6	MP-2	X	.012	3
7	MP-3	X	.01	1
8	MP-3	X	.004	3
9	MP-4	X	.01	1
10	MP-4	X	.002	1.5
11	MP-4	X	.001	3
12	MP-5	X	.02	1
13	MP-5	X	.006	3
14	MP-5	X	.008	3
15	MP-6	X	.013	1
16	MP-6	X	.007	3
17	MP-7	X	.006	1
18	MP-7	X	.003	1.5
19	MP-7	X	.000857	3



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
20	MP-8	X	.013	1
21	MP-8	X	.011	3
22	MP-8	X	.012	3
23	MP-9	X	.01	1
24	MP-9	X	.004	3
25	SA-1	X	.006	1
26	MP-1	X	.006	5
27	MP-2	X	.013	5
28	MP-3	X	.01	5
29	MP-4	X	.01	5
30	MP-5	X	.02	5
31	MP-6	X	.013	5
32	MP-7	X	.006	5
33	MP-8	X	.013	5
34	MP-9	X	.01	5
35	MP-1	Z	-0.11	1
36	MP-1	Z	-0.004	1.5
37	MP-1	Z	-0.001	3
38	MP-2	Z	-0.023	1
39	MP-2	Z	-0.19	3
40	MP-2	Z	-0.02	3
41	MP-3	Z	-0.17	1
42	MP-3	Z	-0.07	3
43	MP-4	Z	-0.17	1
44	MP-4	Z	-0.004	1.5
45	MP-4	Z	-0.002	3
46	MP-5	Z	-0.034	1
47	MP-5	Z	-0.11	3
48	MP-5	Z	-0.15	3
49	MP-6	Z	-0.022	1
50	MP-6	Z	-0.12	3
51	MP-7	Z	-0.11	1
52	MP-7	Z	-0.004	1.5
53	MP-7	Z	-0.001	3
54	MP-8	Z	-0.023	1
55	MP-8	Z	-0.19	3
56	MP-8	Z	-0.02	3
57	MP-9	Z	-0.17	1
58	MP-9	Z	-0.007	3
59	SA-1	Z	-0.01	1
60	MP-1	Z	-0.11	5
61	MP-2	Z	-0.023	5
62	MP-3	Z	-0.17	5
63	MP-4	Z	-0.17	5
64	MP-5	Z	-0.034	5
65	MP-6	Z	-0.022	5
66	MP-7	Z	-0.11	5
67	MP-8	Z	-0.023	5
68	MP-9	Z	-0.17	5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.011	1
2	MP-1	X	.003	1.5
3	MP-1	X	.001	3
4	MP-2	X	.022	1



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
5	MP-2	X	.013	3
6	MP-2	X	.015	3
7	MP-3	X	.015	1
8	MP-3	X	.007	3
9	MP-4	X	.014	1
10	MP-4	X	.003	1.5
11	MP-4	X	.001	3
12	MP-5	X	.027	1
13	MP-5	X	.01	3
14	MP-5	X	.012	3
15	MP-6	X	.018	1
16	MP-6	X	.009	3
17	MP-7	X	.008	1
18	MP-7	X	.004	1.5
19	MP-7	X	.001	3
20	MP-8	X	.016	1
21	MP-8	X	.017	3
22	MP-8	X	.018	3
23	MP-9	X	.013	1
24	MP-9	X	.005	3
25	SA-1	X	.008	1
26	MP-1	X	.011	5
27	MP-2	X	.022	5
28	MP-3	X	.015	5
29	MP-4	X	.014	5
30	MP-5	X	.027	5
31	MP-6	X	.018	5
32	MP-7	X	.008	5
33	MP-8	X	.016	5
34	MP-9	X	.013	5
35	MP-1	Z	-.011	1
36	MP-1	Z	-.003	1.5
37	MP-1	Z	-.001	3
38	MP-2	Z	-.022	1
39	MP-2	Z	-.013	3
40	MP-2	Z	-.015	3
41	MP-3	Z	-.015	1
42	MP-3	Z	-.007	3
43	MP-4	Z	-.014	1
44	MP-4	Z	-.003	1.5
45	MP-4	Z	-.001	3
46	MP-5	Z	-.027	1
47	MP-5	Z	-.01	3
48	MP-5	Z	-.012	3
49	MP-6	Z	-.018	1
50	MP-6	Z	-.009	3
51	MP-7	Z	-.008	1
52	MP-7	Z	-.004	1.5
53	MP-7	Z	-.001	3
54	MP-8	Z	-.016	1
55	MP-8	Z	-.017	3
56	MP-8	Z	-.018	3
57	MP-9	Z	-.013	1
58	MP-9	Z	-.005	3
59	SA-1	Z	-.008	1
60	MP-1	Z	-.011	5
61	MP-2	Z	-.022	5



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
62	MP-3	Z	-.015	5
63	MP-4	Z	-.014	5
64	MP-5	Z	-.027	5
65	MP-6	Z	-.018	5
66	MP-7	Z	-.008	5
67	MP-8	Z	-.016	5
68	MP-9	Z	-.013	5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.015	1
2	MP-1	X	.004	1.5
3	MP-1	X	.002	3
4	MP-2	X	.03	1
5	MP-2	X	.014	3
6	MP-2	X	.017	3
7	MP-3	X	.02	1
8	MP-3	X	.01	3
9	MP-4	X	.015	1
10	MP-4	X	.004	1.5
11	MP-4	X	.002	3
12	MP-5	X	.03	1
13	MP-5	X	.014	3
14	MP-5	X	.017	3
15	MP-6	X	.02	1
16	MP-6	X	.01	3
17	MP-7	X	.009	1
18	MP-7	X	.004	1.5
19	MP-7	X	.001	3
20	MP-8	X	.019	1
21	MP-8	X	.022	3
22	MP-8	X	.022	3
23	MP-9	X	.016	1
24	MP-9	X	.006	3
25	SA-1	X	.01	1
26	MP-1	X	.015	5
27	MP-2	X	.03	5
28	MP-3	X	.02	5
29	MP-4	X	.015	5
30	MP-5	X	.03	5
31	MP-6	X	.02	5
32	MP-7	X	.009	5
33	MP-8	X	.019	5
34	MP-9	X	.016	5
35	MP-1	Z	-.009	1
36	MP-1	Z	-.002	1.5
37	MP-1	Z	-.000986	3
38	MP-2	Z	-.017	1
39	MP-2	Z	-.008	3
40	MP-2	Z	-.01	3
41	MP-3	Z	-.012	1
42	MP-3	Z	-.006	3
43	MP-4	Z	-.009	1
44	MP-4	Z	-.002	1.5
45	MP-4	Z	-.000986	3
46	MP-5	Z	-.017	1



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
47	MP-5	Z	-0.08	3
48	MP-5	Z	-0.01	3
49	MP-6	Z	-0.12	1
50	MP-6	Z	-0.06	3
51	MP-7	Z	-0.05	1
52	MP-7	Z	-0.003	1.5
53	MP-7	Z	-0.00793	3
54	MP-8	Z	-0.11	1
55	MP-8	Z	-0.13	3
56	MP-8	Z	-0.13	3
57	MP-9	Z	-0.09	1
58	MP-9	Z	-0.003	3
59	SA-1	Z	-0.06	1
60	MP-1	Z	-0.09	5
61	MP-2	Z	-0.17	5
62	MP-3	Z	-0.12	5
63	MP-4	Z	-0.09	5
64	MP-5	Z	-0.17	5
65	MP-6	Z	-0.12	5
66	MP-7	Z	-0.05	5
67	MP-8	Z	-0.11	5
68	MP-9	Z	-0.09	5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.02	1
2	MP-1	X	.005	1.5
3	MP-1	X	.002	3
4	MP-2	X	.039	1
5	MP-2	X	.026	3
6	MP-2	X	.025	3
7	MP-3	X	.026	1
8	MP-3	X	.014	3
9	MP-4	X	.02	1
10	MP-4	X	.005	1.5
11	MP-4	X	.002	3
12	MP-5	X	.039	1
13	MP-5	X	.026	3
14	MP-5	X	.025	3
15	MP-6	X	.026	1
16	MP-6	X	.014	3
17	MP-7	X	.02	1
18	MP-7	X	.005	1.5
19	MP-7	X	.002	3
20	MP-8	X	.039	1
21	MP-8	X	.026	3
22	MP-8	X	.025	3
23	MP-9	X	.026	1
24	MP-9	X	.014	3
25	SA-1	X	.011	1
26	MP-1	X	.02	5
27	MP-2	X	.039	5
28	MP-3	X	.026	5
29	MP-4	X	.02	5
30	MP-5	X	.039	5
31	MP-6	X	.026	5



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
32	MP-7	X	.02	5
33	MP-8	X	.039	5
34	MP-9	X	.026	5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.015	1
2	MP-1	X	.004	1.5
3	MP-1	X	.002	3
4	MP-2	X	.03	1
5	MP-2	X	.014	3
6	MP-2	X	.017	3
7	MP-3	X	.02	1
8	MP-3	X	.01	3
9	MP-4	X	.009	1
10	MP-4	X	.004	1.5
11	MP-4	X	.001	3
12	MP-5	X	.019	1
13	MP-5	X	.022	3
14	MP-5	X	.022	3
15	MP-6	X	.016	1
16	MP-6	X	.006	3
17	MP-7	X	.015	1
18	MP-7	X	.004	1.5
19	MP-7	X	.002	3
20	MP-8	X	.03	1
21	MP-8	X	.014	3
22	MP-8	X	.017	3
23	MP-9	X	.02	1
24	MP-9	X	.01	3
25	SA-1	X	.01	1
26	MP-1	X	.015	5
27	MP-2	X	.03	5
28	MP-3	X	.02	5
29	MP-4	X	.009	5
30	MP-5	X	.019	5
31	MP-6	X	.016	5
32	MP-7	X	.015	5
33	MP-8	X	.03	5
34	MP-9	X	.02	5
35	MP-1	Z	.009	1
36	MP-1	Z	.002	1.5
37	MP-1	Z	.000986	3
38	MP-2	Z	.017	1
39	MP-2	Z	.008	3
40	MP-2	Z	.01	3
41	MP-3	Z	.012	1
42	MP-3	Z	.006	3
43	MP-4	Z	.005	1
44	MP-4	Z	.003	1.5
45	MP-4	Z	.000793	3
46	MP-5	Z	.011	1
47	MP-5	Z	.013	3
48	MP-5	Z	.013	3
49	MP-6	Z	.009	1
50	MP-6	Z	.003	3



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
51	MP-7	Z	.009	1
52	MP-7	Z	.002	1.5
53	MP-7	Z	.000986	3
54	MP-8	Z	.017	1
55	MP-8	Z	.008	3
56	MP-8	Z	.01	3
57	MP-9	Z	.012	1
58	MP-9	Z	.006	3
59	SA-1	Z	.006	1
60	MP-1	Z	.009	5
61	MP-2	Z	.017	5
62	MP-3	Z	.012	5
63	MP-4	Z	.005	5
64	MP-5	Z	.011	5
65	MP-6	Z	.009	5
66	MP-7	Z	.009	5
67	MP-8	Z	.017	5
68	MP-9	Z	.012	5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.011	1
2	MP-1	X	.003	1.5
3	MP-1	X	.001	3
4	MP-2	X	.022	1
5	MP-2	X	.013	3
6	MP-2	X	.015	3
7	MP-3	X	.015	1
8	MP-3	X	.007	3
9	MP-4	X	.008	1
10	MP-4	X	.004	1.5
11	MP-4	X	.001	3
12	MP-5	X	.016	1
13	MP-5	X	.017	3
14	MP-5	X	.018	3
15	MP-6	X	.013	1
16	MP-6	X	.005	3
17	MP-7	X	.014	1
18	MP-7	X	.003	1.5
19	MP-7	X	.001	3
20	MP-8	X	.027	1
21	MP-8	X	.01	3
22	MP-8	X	.012	3
23	MP-9	X	.018	1
24	MP-9	X	.009	3
25	SA-1	X	.008	1
26	MP-1	X	.011	5
27	MP-2	X	.022	5
28	MP-3	X	.015	5
29	MP-4	X	.008	5
30	MP-5	X	.016	5
31	MP-6	X	.013	5
32	MP-7	X	.014	5
33	MP-8	X	.027	5
34	MP-9	X	.018	5
35	MP-1	Z	.011	1



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
36	MP-1	Z	.003	1.5
37	MP-1	Z	.001	3
38	MP-2	Z	.022	1
39	MP-2	Z	.013	3
40	MP-2	Z	.015	3
41	MP-3	Z	.015	1
42	MP-3	Z	.007	3
43	MP-4	Z	.008	1
44	MP-4	Z	.004	1.5
45	MP-4	Z	.001	3
46	MP-5	Z	.016	1
47	MP-5	Z	.017	3
48	MP-5	Z	.018	3
49	MP-6	Z	.013	1
50	MP-6	Z	.005	3
51	MP-7	Z	.014	1
52	MP-7	Z	.003	1.5
53	MP-7	Z	.001	3
54	MP-8	Z	.027	1
55	MP-8	Z	.01	3
56	MP-8	Z	.012	3
57	MP-9	Z	.018	1
58	MP-9	Z	.009	3
59	SA-1	Z	.008	1
60	MP-1	Z	.011	5
61	MP-2	Z	.022	5
62	MP-3	Z	.015	5
63	MP-4	Z	.008	5
64	MP-5	Z	.016	5
65	MP-6	Z	.013	5
66	MP-7	Z	.014	5
67	MP-8	Z	.027	5
68	MP-9	Z	.018	5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.006	1
2	MP-1	X	.003	1.5
3	MP-1	X	.000857	3
4	MP-2	X	.013	1
5	MP-2	X	.011	3
6	MP-2	X	.012	3
7	MP-3	X	.01	1
8	MP-3	X	.004	3
9	MP-4	X	.006	1
10	MP-4	X	.003	1.5
11	MP-4	X	.000857	3
12	MP-5	X	.013	1
13	MP-5	X	.011	3
14	MP-5	X	.012	3
15	MP-6	X	.01	1
16	MP-6	X	.004	3
17	MP-7	X	.01	1
18	MP-7	X	.002	1.5
19	MP-7	X	.001	3
20	MP-8	X	.02	1



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
21	MP-8	X	.006	3
22	MP-8	X	.008	3
23	MP-9	X	.013	1
24	MP-9	X	.007	3
25	SA-1	X	.006	1
26	MP-1	X	.006	5
27	MP-2	X	.013	5
28	MP-3	X	.01	5
29	MP-4	X	.006	5
30	MP-5	X	.013	5
31	MP-6	X	.01	5
32	MP-7	X	.01	5
33	MP-8	X	.02	5
34	MP-9	X	.013	5
35	MP-1	Z	.011	1
36	MP-1	Z	.004	1.5
37	MP-1	Z	.001	3
38	MP-2	Z	.023	1
39	MP-2	Z	.019	3
40	MP-2	Z	.02	3
41	MP-3	Z	.017	1
42	MP-3	Z	.007	3
43	MP-4	Z	.011	1
44	MP-4	Z	.004	1.5
45	MP-4	Z	.001	3
46	MP-5	Z	.023	1
47	MP-5	Z	.019	3
48	MP-5	Z	.02	3
49	MP-6	Z	.017	1
50	MP-6	Z	.007	3
51	MP-7	Z	.017	1
52	MP-7	Z	.004	1.5
53	MP-7	Z	.002	3
54	MP-8	Z	.034	1
55	MP-8	Z	.011	3
56	MP-8	Z	.015	3
57	MP-9	Z	.022	1
58	MP-9	Z	.012	3
59	SA-1	Z	.01	1
60	MP-1	Z	.011	5
61	MP-2	Z	.023	5
62	MP-3	Z	.017	5
63	MP-4	Z	.011	5
64	MP-5	Z	.023	5
65	MP-6	Z	.017	5
66	MP-7	Z	.017	5
67	MP-8	Z	.034	5
68	MP-9	Z	.022	5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Z	.011	1
2	MP-1	Z	.005	1.5
3	MP-1	Z	.002	3
4	MP-2	Z	.022	1
5	MP-2	Z	.013	3



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
6	MP-2	Z	.017	3
7	MP-3	Z	.018	1
8	MP-3	Z	.007	3
9	MP-4	Z	.011	1
10	MP-4	Z	.005	1.5
11	MP-4	Z	.002	3
12	MP-5	Z	.022	1
13	MP-5	Z	.013	3
14	MP-5	Z	.017	3
15	MP-6	Z	.018	1
16	MP-6	Z	.007	3
17	MP-7	Z	.011	1
18	MP-7	Z	.005	1.5
19	MP-7	Z	.002	3
20	MP-8	Z	.022	1
21	MP-8	Z	.013	3
22	MP-8	Z	.017	3
23	MP-9	Z	.018	1
24	MP-9	Z	.007	3
25	SA-1	Z	.011	1
26	MP-1	Z	.011	5
27	MP-2	Z	.022	5
28	MP-3	Z	.018	5
29	MP-4	Z	.011	5
30	MP-5	Z	.022	5
31	MP-6	Z	.018	5
32	MP-7	Z	.011	5
33	MP-8	Z	.022	5
34	MP-9	Z	.018	5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.006	1
2	MP-1	X	-.003	1.5
3	MP-1	X	-.000857	3
4	MP-2	X	-.013	1
5	MP-2	X	-.011	3
6	MP-2	X	-.012	3
7	MP-3	X	-.01	1
8	MP-3	X	-.004	3
9	MP-4	X	-.01	1
10	MP-4	X	-.002	1.5
11	MP-4	X	-.001	3
12	MP-5	X	-.02	1
13	MP-5	X	-.006	3
14	MP-5	X	-.008	3
15	MP-6	X	-.013	1
16	MP-6	X	-.007	3
17	MP-7	X	-.006	1
18	MP-7	X	-.003	1.5
19	MP-7	X	-.000857	3
20	MP-8	X	-.013	1
21	MP-8	X	-.011	3
22	MP-8	X	-.012	3
23	MP-9	X	-.01	1
24	MP-9	X	-.004	3



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
25	SA-1	X	-006	1
26	MP-1	X	-006	5
27	MP-2	X	-013	5
28	MP-3	X	-.01	5
29	MP-4	X	-.01	5
30	MP-5	X	-.02	5
31	MP-6	X	-013	5
32	MP-7	X	-006	5
33	MP-8	X	-013	5
34	MP-9	X	-.01	5
35	MP-1	Z	.011	1
36	MP-1	Z	.004	1.5
37	MP-1	Z	.001	3
38	MP-2	Z	.023	1
39	MP-2	Z	.019	3
40	MP-2	Z	.02	3
41	MP-3	Z	.017	1
42	MP-3	Z	.007	3
43	MP-4	Z	.017	1
44	MP-4	Z	.004	1.5
45	MP-4	Z	.002	3
46	MP-5	Z	.034	1
47	MP-5	Z	.011	3
48	MP-5	Z	.015	3
49	MP-6	Z	.022	1
50	MP-6	Z	.012	3
51	MP-7	Z	.011	1
52	MP-7	Z	.004	1.5
53	MP-7	Z	.001	3
54	MP-8	Z	.023	1
55	MP-8	Z	.019	3
56	MP-8	Z	.02	3
57	MP-9	Z	.017	1
58	MP-9	Z	.007	3
59	SA-1	Z	.01	1
60	MP-1	Z	.011	5
61	MP-2	Z	.023	5
62	MP-3	Z	.017	5
63	MP-4	Z	.017	5
64	MP-5	Z	.034	5
65	MP-6	Z	.022	5
66	MP-7	Z	.011	5
67	MP-8	Z	.023	5
68	MP-9	Z	.017	5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-011	1
2	MP-1	X	-003	1.5
3	MP-1	X	-.001	3
4	MP-2	X	-.022	1
5	MP-2	X	-.013	3
6	MP-2	X	-.015	3
7	MP-3	X	-.015	1
8	MP-3	X	-.007	3
9	MP-4	X	-.014	1



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
10	MP-4	X	-003	1.5
11	MP-4	X	-.001	3
12	MP-5	X	-.027	1
13	MP-5	X	-.01	3
14	MP-5	X	-.012	3
15	MP-6	X	-.018	1
16	MP-6	X	-.009	3
17	MP-7	X	-.008	1
18	MP-7	X	-.004	1.5
19	MP-7	X	-.001	3
20	MP-8	X	-.016	1
21	MP-8	X	-.017	3
22	MP-8	X	-.018	3
23	MP-9	X	-.013	1
24	MP-9	X	-.005	3
25	SA-1	X	-.008	1
26	MP-1	X	-.011	5
27	MP-2	X	-.022	5
28	MP-3	X	-.015	5
29	MP-4	X	-.014	5
30	MP-5	X	-.027	5
31	MP-6	X	-.018	5
32	MP-7	X	-.008	5
33	MP-8	X	-.016	5
34	MP-9	X	-.013	5
35	MP-1	Z	.011	1
36	MP-1	Z	.003	1.5
37	MP-1	Z	.001	3
38	MP-2	Z	.022	1
39	MP-2	Z	.013	3
40	MP-2	Z	.015	3
41	MP-3	Z	.015	1
42	MP-3	Z	.007	3
43	MP-4	Z	.014	1
44	MP-4	Z	.003	1.5
45	MP-4	Z	.001	3
46	MP-5	Z	.027	1
47	MP-5	Z	.01	3
48	MP-5	Z	.012	3
49	MP-6	Z	.018	1
50	MP-6	Z	.009	3
51	MP-7	Z	.008	1
52	MP-7	Z	.004	1.5
53	MP-7	Z	.001	3
54	MP-8	Z	.016	1
55	MP-8	Z	.017	3
56	MP-8	Z	.018	3
57	MP-9	Z	.013	1
58	MP-9	Z	.005	3
59	SA-1	Z	.008	1
60	MP-1	Z	.011	5
61	MP-2	Z	.022	5
62	MP-3	Z	.015	5
63	MP-4	Z	.014	5
64	MP-5	Z	.027	5
65	MP-6	Z	.018	5
66	MP-7	Z	.008	5



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
67	MP-8	Z	.016	5
68	MP-9	Z	.013	5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.015	1
2	MP-1	X	-.004	1.5
3	MP-1	X	-.002	3
4	MP-2	X	-.03	1
5	MP-2	X	-.014	3
6	MP-2	X	-.017	3
7	MP-3	X	-.02	1
8	MP-3	X	-.01	3
9	MP-4	X	-.015	1
10	MP-4	X	-.004	1.5
11	MP-4	X	-.002	3
12	MP-5	X	-.03	1
13	MP-5	X	-.014	3
14	MP-5	X	-.017	3
15	MP-6	X	-.02	1
16	MP-6	X	-.01	3
17	MP-7	X	-.009	1
18	MP-7	X	-.004	1.5
19	MP-7	X	-.001	3
20	MP-8	X	-.019	1
21	MP-8	X	-.022	3
22	MP-8	X	-.022	3
23	MP-9	X	-.016	1
24	MP-9	X	-.006	3
25	SA-1	X	-.01	1
26	MP-1	X	-.015	5
27	MP-2	X	-.03	5
28	MP-3	X	-.02	5
29	MP-4	X	-.015	5
30	MP-5	X	-.03	5
31	MP-6	X	-.02	5
32	MP-7	X	-.009	5
33	MP-8	X	-.019	5
34	MP-9	X	-.016	5
35	MP-1	Z	.009	1
36	MP-1	Z	.002	1.5
37	MP-1	Z	.000986	3
38	MP-2	Z	.017	1
39	MP-2	Z	.008	3
40	MP-2	Z	.01	3
41	MP-3	Z	.012	1
42	MP-3	Z	.006	3
43	MP-4	Z	.009	1
44	MP-4	Z	.002	1.5
45	MP-4	Z	.000986	3
46	MP-5	Z	.017	1
47	MP-5	Z	.008	3
48	MP-5	Z	.01	3
49	MP-6	Z	.012	1
50	MP-6	Z	.006	3
51	MP-7	Z	.005	1



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
52	MP-7	Z	.003	1.5
53	MP-7	Z	.000793	3
54	MP-8	Z	.011	1
55	MP-8	Z	.013	3
56	MP-8	Z	.013	3
57	MP-9	Z	.009	1
58	MP-9	Z	.003	3
59	SA-1	Z	.006	1
60	MP-1	Z	.009	5
61	MP-2	Z	.017	5
62	MP-3	Z	.012	5
63	MP-4	Z	.009	5
64	MP-5	Z	.017	5
65	MP-6	Z	.012	5
66	MP-7	Z	.005	5
67	MP-8	Z	.011	5
68	MP-9	Z	.009	5

Member Point Loads (BLC 37 : Seismic Load X)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.018	1
2	MP-1	X	-.002	1.5
3	MP-1	X	-.003	3
4	MP-2	X	-.024	1
5	MP-2	X	-.051	3
6	MP-2	X	-.053	3
7	MP-3	X	-.027	1
8	MP-3	X	-.026	3
9	MP-4	X	-.018	1
10	MP-4	X	-.002	1.5
11	MP-4	X	-.003	3
12	MP-5	X	-.024	1
13	MP-5	X	-.051	3
14	MP-5	X	-.053	3
15	MP-6	X	-.027	1
16	MP-6	X	-.026	3
17	MP-7	X	-.018	1
18	MP-7	X	-.002	1.5
19	MP-7	X	-.003	3
20	MP-8	X	-.024	1
21	MP-8	X	-.051	3
22	MP-8	X	-.053	3
23	MP-9	X	-.027	1
24	MP-9	X	-.026	3
25	SA-1	X	-.033	1
26	MP-1	X	-.018	5
27	MP-2	X	-.024	5
28	MP-3	X	-.027	5
29	MP-4	X	-.018	5
30	MP-5	X	-.024	5
31	MP-6	X	-.027	5
32	MP-7	X	-.018	5
33	MP-8	X	-.024	5
34	MP-9	X	-.027	5



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Member Point Loads (BLC 38 : Seismic Load Z)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft.%]
1	MP-1	Z	-0.18	1
2	MP-1	Z	-0.02	1.5
3	MP-1	Z	-0.03	3
4	MP-2	Z	-0.24	1
5	MP-2	Z	-0.51	3
6	MP-2	Z	-0.53	3
7	MP-3	Z	-0.27	1
8	MP-3	Z	-0.26	3
9	MP-4	Z	-0.18	1
10	MP-4	Z	-0.02	1.5
11	MP-4	Z	-0.03	3
12	MP-5	Z	-0.24	1
13	MP-5	Z	-0.51	3
14	MP-5	Z	-0.53	3
15	MP-6	Z	-0.27	1
16	MP-6	Z	-0.26	3
17	MP-7	Z	-0.18	1
18	MP-7	Z	-0.02	1.5
19	MP-7	Z	-0.03	3
20	MP-8	Z	-0.24	1
21	MP-8	Z	-0.51	3
22	MP-8	Z	-0.53	3
23	MP-9	Z	-0.27	1
24	MP-9	Z	-0.26	3
25	SA-1	Z	-0.33	1
26	MP-1	Z	-0.18	5
27	MP-2	Z	-0.24	5
28	MP-3	Z	-0.27	5
29	MP-4	Z	-0.18	5
30	MP-5	Z	-0.24	5
31	MP-6	Z	-0.27	5
32	MP-7	Z	-0.18	5
33	MP-8	Z	-0.24	5
34	MP-9	Z	-0.27	5

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft.%]	End Location[ft.%]
1	CP-1	X	-0.13	-0.13	0	%100
2	CP-2	X	-0.13	-0.13	0	%100
3	CP-3	X	-0.25	-0.25	0	%100
4	FFTH-1	X	-0.09	-0.09	0	%100
5	FFTH-2	X	-0.09	-0.09	0	%100
6	FFTH-3	X	-0.09	-0.09	0	%100
7	SF1-TH-1	X	-0.03	-0.03	0	%100
8	SF1-TH-2	X	-0.03	-0.03	0	%100
9	SF1-TH-3	X	-0.03	-0.03	0	%100
10	SF2-TH-1	X	-0.03	-0.03	0	%100
11	SF2-TH-2	X	-0.03	-0.03	0	%100
12	SF2-TH-3	X	-0.03	-0.03	0	%100
13	GSIP-1A	X	-0.12	-0.12	0	%100
14	GSIP-1B	X	-0.12	-0.12	0	%100
15	GSIP-2A	X	-0.12	-0.12	0	%100
16	GSIP-2B	X	-0.12	-0.12	0	%100
17	GSIP-3A	X	0	0	0	%100
18	GSIP-3B	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft.%]	End Location[ft.%]
19	GSI-1A	X	-0.08	-0.08	0	%100
20	GSI-1B	X	0	0	0	%100
21	GSI-2A	X	0	0	0	%100
22	GSI-2B	X	-0.08	-0.08	0	%100
23	GSI-3A	X	-0.08	-0.08	0	%100
24	GSI-3B	X	-0.08	-0.08	0	%100
25	MP-1	X	-0.01	-0.01	0	%100
26	MP-2	X	-0.01	-0.01	0	%100
27	MP-3	X	-0.01	-0.01	0	%100
28	MP-4	X	-0.01	-0.01	0	%100
29	MP-5	X	-0.01	-0.01	0	%100
30	MP-6	X	-0.01	-0.01	0	%100
31	MP-7	X	-0.01	-0.01	0	%100
32	MP-8	X	-0.01	-0.01	0	%100
33	MP-9	X	-0.01	-0.01	0	%100
34	SA-1	X	-0.16	-0.16	0	%100
35	SA-1B	X	-0.16	-0.16	0	%100
36	SA-2	X	-0.16	-0.16	0	%100
37	SA-2B	X	-0.16	-0.16	0	%100
38	SA-3	X	0	0	0	%100
39	SA-3B	X	0	0	0	%100
40	K1	X	-0.16	-0.16	0	%100
41	K2	X	-0.16	-0.16	0	%100
42	K3	X	-0.16	-0.16	0	%100
43	K4	X	-0.16	-0.16	0	%100
44	K5	X	-0.16	-0.16	0	%100
45	K6	X	-0.16	-0.16	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft.%]	End Location[ft.%]
1	CP-1	X	-0.19	-0.19	0	%100
2	CP-2	X	0	0	0	%100
3	CP-3	X	-0.19	-0.19	0	%100
4	FFTH-1	X	-0.07	-0.07	0	%100
5	FFTH-2	X	-0.07	-0.07	0	%100
6	FFTH-3	X	-0.07	-0.07	0	%100
7	SF1-TH-1	X	-0.05	-0.05	0	%100
8	SF1-TH-2	X	-0.05	-0.05	0	%100
9	SF1-TH-3	X	-0.05	-0.05	0	%100
10	SF2-TH-1	X	0	0	0	%100
11	SF2-TH-2	X	0	0	0	%100
12	SF2-TH-3	X	0	0	0	%100
13	GSIP-1A	X	-0.06	-0.06	0	%100
14	GSIP-1B	X	-0.06	-0.06	0	%100
15	GSIP-2A	X	-0.12	-0.12	0	%100
16	GSIP-2B	X	-0.12	-0.12	0	%100
17	GSIP-3A	X	-0.05	-0.05	0	%100
18	GSIP-3B	X	-0.05	-0.05	0	%100
19	GSI-1A	X	-0.08	-0.08	0	%100
20	GSI-1B	X	-0.03	-0.03	0	%100
21	GSI-2A	X	-0.03	-0.03	0	%100
22	GSI-2B	X	-0.04	-0.04	0	%100
23	GSI-3A	X	-0.04	-0.04	0	%100
24	GSI-3B	X	-0.08	-0.08	0	%100
25	MP-1	X	-0.09	-0.09	0	%100
26	MP-2	X	-0.09	-0.09	0	%100



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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
27	MP-3	X	-0.09	-0.09	0	%100
28	MP-4	X	-0.09	-0.09	0	%100
29	MP-5	X	-0.09	-0.09	0	%100
30	MP-6	X	-0.09	-0.09	0	%100
31	MP-7	X	-0.09	-0.09	0	%100
32	MP-8	X	-0.09	-0.09	0	%100
33	MP-9	X	-0.09	-0.09	0	%100
34	SA-1	X	-0.08	-0.08	0	%100
35	SA-1B	X	-0.08	-0.08	0	%100
36	SA-2	X	-0.16	-0.16	0	%100
37	SA-2B	X	-0.16	-0.16	0	%100
38	SA-3	X	-0.05	-0.05	0	%100
39	SA-3B	X	-0.05	-0.05	0	%100
40	K1	X	-0.14	-0.14	0	%100
41	K2	X	-0.14	-0.14	0	%100
42	K3	X	-0.14	-0.14	0	%100
43	K4	X	-0.14	-0.14	0	%100
44	K5	X	-0.14	-0.14	0	%100
45	K6	X	-0.14	-0.14	0	%100
46	CP-1	Z	-0.11	-0.11	0	%100
47	CP-2	Z	0	0	0	%100
48	CP-3	Z	-0.11	-0.11	0	%100
49	FFTH-1	Z	-0.04	-0.04	0	%100
50	FFTH-2	Z	-0.04	-0.04	0	%100
51	FFTH-3	Z	-0.04	-0.04	0	%100
52	SF1-TH-1	Z	-0.04	-0.04	0	%100
53	SF1-TH-2	Z	-0.04	-0.04	0	%100
54	SF1-TH-3	Z	-0.04	-0.04	0	%100
55	SF2-TH-1	Z	0	0	0	%100
56	SF2-TH-2	Z	0	0	0	%100
57	SF2-TH-3	Z	0	0	0	%100
58	GSIP-1A	Z	-0.03	-0.03	0	%100
59	GSIP-1B	Z	-0.03	-0.03	0	%100
60	GSIP-2A	Z	-0.06	-0.06	0	%100
61	GSIP-2B	Z	-0.06	-0.06	0	%100
62	GSIP-3A	Z	-0.04	-0.04	0	%100
63	GSIP-3B	Z	-0.04	-0.04	0	%100
64	GSI-1A	Z	-0.04	-0.04	0	%100
65	GSI-1B	Z	-0.03	-0.03	0	%100
66	GSI-2A	Z	-0.03	-0.03	0	%100
67	GSI-2B	Z	-0.02	-0.02	0	%100
68	GSI-3A	Z	-0.02	-0.02	0	%100
69	GSI-3B	Z	-0.04	-0.04	0	%100
70	MP-1	Z	-0.05	-0.05	0	%100
71	MP-2	Z	-0.05	-0.05	0	%100
72	MP-3	Z	-0.05	-0.05	0	%100
73	MP-4	Z	-0.05	-0.05	0	%100
74	MP-5	Z	-0.05	-0.05	0	%100
75	MP-6	Z	-0.05	-0.05	0	%100
76	MP-7	Z	-0.05	-0.05	0	%100
77	MP-8	Z	-0.05	-0.05	0	%100
78	MP-9	Z	-0.05	-0.05	0	%100
79	SA-1	Z	-0.04	-0.04	0	%100
80	SA-1B	Z	-0.04	-0.04	0	%100
81	SA-2	Z	-0.08	-0.08	0	%100
82	SA-2B	Z	-0.08	-0.08	0	%100
83	SA-3	Z	-0.05	-0.05	0	%100



Company : Tower Engineering Professionals
 Designer : GHM
 Job Number : TEP No. 83248.504882
 Model Name : CCI BU No 828915

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
84	SA-3B	Z	-0.05	-0.05	0	%100
85	K1	Z	-0.08	-0.08	0	%100
86	K2	Z	-0.08	-0.08	0	%100
87	K3	Z	-0.08	-0.08	0	%100
88	K4	Z	-0.08	-0.08	0	%100
89	K5	Z	-0.08	-0.08	0	%100
90	K6	Z	-0.08	-0.08	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	-0.17	-0.17	0	%100
2	CP-2	X	-0.05	-0.05	0	%100
3	CP-3	X	-0.13	-0.13	0	%100
4	FFTH-1	X	-0.05	-0.05	0	%100
5	FFTH-2	X	-0.05	-0.05	0	%100
6	FFTH-3	X	-0.05	-0.05	0	%100
7	SF1-TH-1	X	-0.05	-0.05	0	%100
8	SF1-TH-2	X	-0.05	-0.05	0	%100
9	SF1-TH-3	X	-0.05	-0.05	0	%100
10	SF2-TH-1	X	-0.01	-0.01	0	%100
11	SF2-TH-2	X	-0.01	-0.01	0	%100
12	SF2-TH-3	X	-0.01	-0.01	0	%100
13	GSIP-1A	X	-0.03	-0.03	0	%100
14	GSIP-1B	X	-0.03	-0.03	0	%100
15	GSIP-2A	X	-0.09	-0.09	0	%100
16	GSIP-2B	X	-0.09	-0.09	0	%100
17	GSIP-3A	X	-0.05	-0.05	0	%100
18	GSIP-3B	X	-0.05	-0.05	0	%100
19	GSI-1A	X	-0.07	-0.07	0	%100
20	GSI-1B	X	-0.03	-0.03	0	%100
21	GSI-2A	X	-0.03	-0.03	0	%100
22	GSI-2B	X	-0.02	-0.02	0	%100
23	GSI-3A	X	-0.02	-0.02	0	%100
24	GSI-3B	X	-0.07	-0.07	0	%100
25	MP-1	X	-0.07	-0.07	0	%100
26	MP-2	X	-0.07	-0.07	0	%100
27	MP-3	X	-0.07	-0.07	0	%100
28	MP-4	X	-0.07	-0.07	0	%100
29	MP-5	X	-0.07	-0.07	0	%100
30	MP-6	X	-0.07	-0.07	0	%100
31	MP-7	X	-0.07	-0.07	0	%100
32	MP-8	X	-0.07	-0.07	0	%100
33	MP-9	X	-0.07	-0.07	0	%100
34	SA-1	X	-0.03	-0.03	0	%100
35	SA-1B	X	-0.03	-0.03	0	%100
36	SA-2	X	-0.13	-0.13	0	%100
37	SA-2B	X	-0.13	-0.13	0	%100
38	SA-3	X	-0.06	-0.06	0	%100
39	SA-3B	X	-0.06	-0.06	0	%100
40	K1	X	-0.11	-0.11	0	%100
41	K2	X	-0.11	-0.11	0	%100
42	K3	X	-0.11	-0.11	0	%100
43	K4	X	-0.11	-0.11	0	%100
44	K5	X	-0.11	-0.11	0	%100
45	K6	X	-0.11	-0.11	0	%100
46	CP-1	Z	-0.17	-0.17	0	%100



Company : Tower Engineering Professionals
 Designer : GHM
 Job Number : TEP No. 83248.504882
 Model Name : CCI BU No 828915

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
47	CP-2	Z	-0.05	-0.05	0	%100
48	CP-3	Z	-0.13	-0.13	0	%100
49	FFTH-1	Z	-0.05	-0.05	0	%100
50	FFTH-2	Z	-0.05	-0.05	0	%100
51	FFTH-3	Z	-0.05	-0.05	0	%100
52	SF1-TH-1	Z	-0.06	-0.06	0	%100
53	SF1-TH-2	Z	-0.06	-0.06	0	%100
54	SF1-TH-3	Z	-0.06	-0.06	0	%100
55	SF2-TH-1	Z	-0.02	-0.02	0	%100
56	SF2-TH-2	Z	-0.02	-0.02	0	%100
57	SF2-TH-3	Z	-0.02	-0.02	0	%100
58	GSIP-1A	Z	-0.02	-0.02	0	%100
59	GSIP-1B	Z	-0.02	-0.02	0	%100
60	GSIP-2A	Z	-0.08	-0.08	0	%100
61	GSIP-2B	Z	-0.08	-0.08	0	%100
62	GSIP-3A	Z	-0.07	-0.07	0	%100
63	GSIP-3B	Z	-0.07	-0.07	0	%100
64	GSI-1A	Z	-0.06	-0.06	0	%100
65	GSI-1B	Z	-0.05	-0.05	0	%100
66	GSI-2A	Z	-0.05	-0.05	0	%100
67	GSI-2B	Z	-0.02	-0.02	0	%100
68	GSI-3A	Z	-0.02	-0.02	0	%100
69	GSI-3B	Z	-0.06	-0.06	0	%100
70	MP-1	Z	-0.07	-0.07	0	%100
71	MP-2	Z	-0.07	-0.07	0	%100
72	MP-3	Z	-0.07	-0.07	0	%100
73	MP-4	Z	-0.07	-0.07	0	%100
74	MP-5	Z	-0.07	-0.07	0	%100
75	MP-6	Z	-0.07	-0.07	0	%100
76	MP-7	Z	-0.07	-0.07	0	%100
77	MP-8	Z	-0.07	-0.07	0	%100
78	MP-9	Z	-0.07	-0.07	0	%100
79	SA-1	Z	-0.03	-0.03	0	%100
80	SA-1B	Z	-0.03	-0.03	0	%100
81	SA-2	Z	-0.11	-0.11	0	%100
82	SA-2B	Z	-0.11	-0.11	0	%100
83	SA-3	Z	-0.1	-0.1	0	%100
84	SA-3B	Z	-0.1	-0.1	0	%100
85	K1	Z	-0.11	-0.11	0	%100
86	K2	Z	-0.11	-0.11	0	%100
87	K3	Z	-0.11	-0.11	0	%100
88	K4	Z	-0.11	-0.11	0	%100
89	K5	Z	-0.11	-0.11	0	%100
90	K6	Z	-0.11	-0.11	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	-0.13	-0.13	0	%100
2	CP-2	X	-0.06	-0.06	0	%100
3	CP-3	X	-0.06	-0.06	0	%100
4	FFTH-1	X	-0.02	-0.02	0	%100
5	FFTH-2	X	-0.02	-0.02	0	%100
6	FFTH-3	X	-0.02	-0.02	0	%100
7	SF1-TH-1	X	-0.03	-0.03	0	%100
8	SF1-TH-2	X	-0.03	-0.03	0	%100
9	SF1-TH-3	X	-0.03	-0.03	0	%100



Company : Tower Engineering Professionals
 Designer : GHM
 Job Number : TEP No. 83248.504882
 Model Name : CCI BU No 828915

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
10	SF2-TH-1	X	-0.02	-0.02	0	%100
11	SF2-TH-2	X	-0.02	-0.02	0	%100
12	SF2-TH-3	X	-0.02	-0.02	0	%100
13	GSIP-1A	X	0	0	0	%100
14	GSIP-1B	X	0	0	0	%100
15	GSIP-2A	X	-0.06	-0.06	0	%100
16	GSIP-2B	X	-0.06	-0.06	0	%100
17	GSIP-3A	X	-0.05	-0.05	0	%100
18	GSIP-3B	X	-0.05	-0.05	0	%100
19	GSI-1A	X	-0.04	-0.04	0	%100
20	GSI-1B	X	-0.03	-0.03	0	%100
21	GSI-2A	X	-0.03	-0.03	0	%100
22	GSI-2B	X	0	0	0	%100
23	GSI-3A	X	0	0	0	%100
24	GSI-3B	X	-0.04	-0.04	0	%100
25	MP-1	X	-0.05	-0.05	0	%100
26	MP-2	X	-0.05	-0.05	0	%100
27	MP-3	X	-0.05	-0.05	0	%100
28	MP-4	X	-0.05	-0.05	0	%100
29	MP-5	X	-0.05	-0.05	0	%100
30	MP-6	X	-0.05	-0.05	0	%100
31	MP-7	X	-0.05	-0.05	0	%100
32	MP-8	X	-0.05	-0.05	0	%100
33	MP-9	X	-0.05	-0.05	0	%100
34	SA-1	X	0	0	0	%100
35	SA-1B	X	0	0	0	%100
36	SA-2	X	-0.08	-0.08	0	%100
37	SA-2B	X	-0.08	-0.08	0	%100
38	SA-3	X	-0.05	-0.05	0	%100
39	SA-3B	X	-0.05	-0.05	0	%100
40	K1	X	-0.08	-0.08	0	%100
41	K2	X	-0.08	-0.08	0	%100
42	K3	X	-0.08	-0.08	0	%100
43	K4	X	-0.08	-0.08	0	%100
44	K5	X	-0.08	-0.08	0	%100
45	K6	X	-0.08	-0.08	0	%100
46	CP-1	Z	-0.22	-0.22	0	%100
47	CP-2	Z	-0.11	-0.11	0	%100
48	CP-3	Z	-0.11	-0.11	0	%100
49	FFTH-1	Z	-0.04	-0.04	0	%100
50	FFTH-2	Z	-0.04	-0.04	0	%100
51	FFTH-3	Z	-0.04	-0.04	0	%100
52	SF1-TH-1	Z	-0.07	-0.07	0	%100
53	SF1-TH-2	Z	-0.07	-0.07	0	%100
54	SF1-TH-3	Z	-0.07	-0.07	0	%100
55	SF2-TH-1	Z	-0.04	-0.04	0	%100
56	SF2-TH-2	Z	-0.04	-0.04	0	%100
57	SF2-TH-3	Z	-0.04	-0.04	0	%100
58	GSIP-1A	Z	0	0	0	%100
59	GSIP-1B	Z	0	0	0	%100
60	GSIP-2A	Z	-0.09	-0.09	0	%100
61	GSIP-2B	Z	-0.09	-0.09	0	%100
62	GSIP-3A	Z	-0.11	-0.11	0	%100
63	GSIP-3B	Z	-0.11	-0.11	0	%100
64	GSI-1A	Z	-0.06	-0.06	0	%100
65	GSI-1B	Z	-0.08	-0.08	0	%100
66	GSI-2A	Z	-0.08	-0.08	0	%100



Company : Tower Engineering Professionals
 Designer : GHM
 Job Number : TEP No. 83248.504882
 Model Name : CCI BU No 828915

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
67	GSI-2B	Z	0	0	%100
68	GSI-3A	Z	0	0	%100
69	GSI-3B	Z	-0.006	-0.006	%100
70	MP-1	Z	-0.009	-0.009	%100
71	MP-2	Z	-0.009	-0.009	%100
72	MP-3	Z	-0.009	-0.009	%100
73	MP-4	Z	-0.009	-0.009	%100
74	MP-5	Z	-0.009	-0.009	%100
75	MP-6	Z	-0.009	-0.009	%100
76	MP-7	Z	-0.009	-0.009	%100
77	MP-8	Z	-0.009	-0.009	%100
78	MP-9	Z	-0.009	-0.009	%100
79	SA-1	Z	0	0	%100
80	SA-1B	Z	0	0	%100
81	SA-2	Z	-0.012	-0.012	%100
82	SA-2B	Z	-0.012	-0.012	%100
83	SA-3	Z	-0.015	-0.015	%100
84	SA-3B	Z	-0.015	-0.015	%100
85	K1	Z	-0.014	-0.014	%100
86	K2	Z	-0.014	-0.014	%100
87	K3	Z	-0.014	-0.014	%100
88	K4	Z	-0.014	-0.014	%100
89	K5	Z	-0.014	-0.014	%100
90	K6	Z	-0.014	-0.014	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
1	CP-1	Z	-0.022	-0.022	%100
2	CP-2	Z	-0.022	-0.022	%100
3	CP-3	Z	0	0	%100
4	FFTH-1	Z	0	0	%100
5	FFTH-2	Z	0	0	%100
6	FFTH-3	Z	0	0	%100
7	SF1-TH-1	Z	-0.007	-0.007	%100
8	SF1-TH-2	Z	-0.007	-0.007	%100
9	SF1-TH-3	Z	-0.007	-0.007	%100
10	SF2-TH-1	Z	-0.007	-0.007	%100
11	SF2-TH-2	Z	-0.007	-0.007	%100
12	SF2-TH-3	Z	-0.007	-0.007	%100
13	GSIP-1A	Z	-0.006	-0.006	%100
14	GSIP-1B	Z	-0.006	-0.006	%100
15	GSIP-2A	Z	-0.006	-0.006	%100
16	GSIP-2B	Z	-0.006	-0.006	%100
17	GSIP-3A	Z	-0.014	-0.014	%100
18	GSIP-3B	Z	-0.014	-0.014	%100
19	GSI-1A	Z	-0.004	-0.004	%100
20	GSI-1B	Z	-0.01	-0.01	%100
21	GSI-2A	Z	-0.01	-0.01	%100
22	GSI-2B	Z	-0.004	-0.004	%100
23	GSI-3A	Z	-0.004	-0.004	%100
24	GSI-3B	Z	-0.004	-0.004	%100
25	MP-1	Z	-0.01	-0.01	%100
26	MP-2	Z	-0.01	-0.01	%100
27	MP-3	Z	-0.01	-0.01	%100
28	MP-4	Z	-0.01	-0.01	%100
29	MP-5	Z	-0.01	-0.01	%100



Company : Tower Engineering Professionals
 Designer : GHM
 Job Number : TEP No. 83248.504882
 Model Name : CCI BU No 828915

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
30	MP-6	Z	-0.01	-0.01	%100
31	MP-7	Z	-0.01	-0.01	%100
32	MP-8	Z	-0.01	-0.01	%100
33	MP-9	Z	-0.01	-0.01	%100
34	SA-1	Z	-0.008	-0.008	%100
35	SA-1B	Z	-0.008	-0.008	%100
36	SA-2	Z	-0.008	-0.008	%100
37	SA-2B	Z	-0.008	-0.008	%100
38	SA-3	Z	-0.019	-0.019	%100
39	SA-3B	Z	-0.019	-0.019	%100
40	K1	Z	-0.016	-0.016	%100
41	K2	Z	-0.016	-0.016	%100
42	K3	Z	-0.016	-0.016	%100
43	K4	Z	-0.016	-0.016	%100
44	K5	Z	-0.016	-0.016	%100
45	K6	Z	-0.016	-0.016	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
1	CP-1	X	.006	.006	%100
2	CP-2	X	.013	.013	%100
3	CP-3	X	.006	.006	%100
4	FFTH-1	X	.002	.002	%100
5	FFTH-2	X	.002	.002	%100
6	FFTH-3	X	.002	.002	%100
7	SF1-TH-1	X	.002	.002	%100
8	SF1-TH-2	X	.002	.002	%100
9	SF1-TH-3	X	.002	.002	%100
10	SF2-TH-1	X	.003	.003	%100
11	SF2-TH-2	X	.003	.003	%100
12	SF2-TH-3	X	.003	.003	%100
13	GSIP-1A	X	.006	.006	%100
14	GSIP-1B	X	.006	.006	%100
15	GSIP-2A	X	0	0	%100
16	GSIP-2B	X	0	0	%100
17	GSIP-3A	X	.005	.005	%100
18	GSIP-3B	X	.005	.005	%100
19	GSI-1A	X	0	0	%100
20	GSI-1B	X	.003	.003	%100
21	GSI-2A	X	.003	.003	%100
22	GSI-2B	X	.004	.004	%100
23	GSI-3A	X	.004	.004	%100
24	GSI-3B	X	0	0	%100
25	MP-1	X	.005	.005	%100
26	MP-2	X	.005	.005	%100
27	MP-3	X	.005	.005	%100
28	MP-4	X	.005	.005	%100
29	MP-5	X	.005	.005	%100
30	MP-6	X	.005	.005	%100
31	MP-7	X	.005	.005	%100
32	MP-8	X	.005	.005	%100
33	MP-9	X	.005	.005	%100
34	SA-1	X	.008	.008	%100
35	SA-1B	X	.008	.008	%100
36	SA-2	X	0	0	%100
37	SA-2B	X	0	0	%100



Company : Tower Engineering Professionals
 Designer : GHM
 Job Number : TEP No. 83248.504882
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Member Distributed Loads (BLC 7 : 120 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,...	Start Location[ft, %]	End Location[ft, %]
38	SA-3	X	.005	.005	0 %100
39	SA-3B	X	.005	.005	0 %100
40	K1	X	.008	.008	0 %100
41	K2	X	.008	.008	0 %100
42	K3	X	.008	.008	0 %100
43	K4	X	.008	.008	0 %100
44	K5	X	.008	.008	0 %100
45	K6	X	.008	.008	0 %100
46	CP-1	Z	-.011	-.011	0 %100
47	CP-2	Z	-.022	-.022	0 %100
48	CP-3	Z	-.011	-.011	0 %100
49	FFTH-1	Z	-.004	-.004	0 %100
50	FFTH-2	Z	-.004	-.004	0 %100
51	FFTH-3	Z	-.004	-.004	0 %100
52	SF1-TH-1	Z	-.004	-.004	0 %100
53	SF1-TH-2	Z	-.004	-.004	0 %100
54	SF1-TH-3	Z	-.004	-.004	0 %100
55	SF2-TH-1	Z	-.007	-.007	0 %100
56	SF2-TH-2	Z	-.007	-.007	0 %100
57	SF2-TH-3	Z	-.007	-.007	0 %100
58	GSIP-1A	Z	-.009	-.009	0 %100
59	GSIP-1B	Z	-.009	-.009	0 %100
60	GSIP-2A	Z	0	0	0 %100
61	GSIP-2B	Z	0	0	0 %100
62	GSIP-3A	Z	-.011	-.011	0 %100
63	GSIP-3B	Z	-.011	-.011	0 %100
64	GSI-1A	Z	0	0	0 %100
65	GSI-1B	Z	-.008	-.008	0 %100
66	GSI-2A	Z	-.008	-.008	0 %100
67	GSI-2B	Z	-.006	-.006	0 %100
68	GSI-3A	Z	-.006	-.006	0 %100
69	GSI-3B	Z	0	0	0 %100
70	MP-1	Z	-.009	-.009	0 %100
71	MP-2	Z	-.009	-.009	0 %100
72	MP-3	Z	-.009	-.009	0 %100
73	MP-4	Z	-.009	-.009	0 %100
74	MP-5	Z	-.009	-.009	0 %100
75	MP-6	Z	-.009	-.009	0 %100
76	MP-7	Z	-.009	-.009	0 %100
77	MP-8	Z	-.009	-.009	0 %100
78	MP-9	Z	-.009	-.009	0 %100
79	SA-1	Z	-.012	-.012	0 %100
80	SA-1B	Z	-.012	-.012	0 %100
81	SA-2	Z	0	0	0 %100
82	SA-2B	Z	0	0	0 %100
83	SA-3	Z	-.015	-.015	0 %100
84	SA-3B	Z	-.015	-.015	0 %100
85	K1	Z	-.014	-.014	0 %100
86	K2	Z	-.014	-.014	0 %100
87	K3	Z	-.014	-.014	0 %100
88	K4	Z	-.014	-.014	0 %100
89	K5	Z	-.014	-.014	0 %100
90	K6	Z	-.014	-.014	0 %100

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

Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,...	Start Location[ft, %]	End Location[ft, %]
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Member Distributed Loads (BLC 8 : 135 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,...	Start Location[ft, %]	End Location[ft, %]
1	CP-1	X	.005	.005	0 %100
2	CP-2	X	.017	.017	0 %100
3	CP-3	X	.013	.013	0 %100
4	FFTH-1	X	.005	.005	0 %100
5	FFTH-2	X	.005	.005	0 %100
6	FFTH-3	X	.005	.005	0 %100
7	SF1-TH-1	X	.001	.001	0 %100
8	SF1-TH-2	X	.001	.001	0 %100
9	SF1-TH-3	X	.001	.001	0 %100
10	SF2-TH-1	X	.005	.005	0 %100
11	SF2-TH-2	X	.005	.005	0 %100
12	SF2-TH-3	X	.005	.005	0 %100
13	GSIP-1A	X	.009	.009	0 %100
14	GSIP-1B	X	.009	.009	0 %100
15	GSIP-2A	X	.003	.003	0 %100
16	GSIP-2B	X	.003	.003	0 %100
17	GSIP-3A	X	.005	.005	0 %100
18	GSIP-3B	X	.005	.005	0 %100
19	GSI-1A	X	.002	.002	0 %100
20	GSI-1B	X	.003	.003	0 %100
21	GSI-2A	X	.003	.003	0 %100
22	GSI-2B	X	.007	.007	0 %100
23	GSI-3A	X	.007	.007	0 %100
24	GSI-3B	X	.002	.002	0 %100
25	MP-1	X	.007	.007	0 %100
26	MP-2	X	.007	.007	0 %100
27	MP-3	X	.007	.007	0 %100
28	MP-4	X	.007	.007	0 %100
29	MP-5	X	.007	.007	0 %100
30	MP-6	X	.007	.007	0 %100
31	MP-7	X	.007	.007	0 %100
32	MP-8	X	.007	.007	0 %100
33	MP-9	X	.007	.007	0 %100
34	SA-1	X	.013	.013	0 %100
35	SA-1B	X	.013	.013	0 %100
36	SA-2	X	.003	.003	0 %100
37	SA-2B	X	.003	.003	0 %100
38	SA-3	X	.006	.006	0 %100
39	SA-3B	X	.006	.006	0 %100
40	K1	X	.011	.011	0 %100
41	K2	X	.011	.011	0 %100
42	K3	X	.011	.011	0 %100
43	K4	X	.011	.011	0 %100
44	K5	X	.011	.011	0 %100
45	K6	X	.011	.011	0 %100
46	CP-1	Z	-.005	-.005	0 %100
47	CP-2	Z	-.017	-.017	0 %100
48	CP-3	Z	-.013	-.013	0 %100
49	FFTH-1	Z	-.005	-.005	0 %100
50	FFTH-2	Z	-.005	-.005	0 %100
51	FFTH-3	Z	-.005	-.005	0 %100
52	SF1-TH-1	Z	-.002	-.002	0 %100
53	SF1-TH-2	Z	-.002	-.002	0 %100
54	SF1-TH-3	Z	-.002	-.002	0 %100
55	SF2-TH-1	Z	-.006	-.006	0 %100
56	SF2-TH-2	Z	-.006	-.006	0 %100
57	SF2-TH-3	Z	-.006	-.006	0 %100



Company : Tower Engineering Professionals
 Designer : GHM
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Member Distributed Loads (BLC 8 : 135 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
58	GSIP-1A	Z	-0.08	-0.08	0	%100
59	GSIP-1B	Z	-0.08	-0.08	0	%100
60	GSIP-2A	Z	-0.02	-0.02	0	%100
61	GSIP-2B	Z	-0.02	-0.02	0	%100
62	GSIP-3A	Z	-0.07	-0.07	0	%100
63	GSIP-3B	Z	-0.07	-0.07	0	%100
64	GSI-1A	Z	-0.02	-0.02	0	%100
65	GSI-1B	Z	-0.05	-0.05	0	%100
66	GSI-2A	Z	-0.05	-0.05	0	%100
67	GSI-2B	Z	-0.06	-0.06	0	%100
68	GSI-3A	Z	-0.06	-0.06	0	%100
69	GSI-3B	Z	-0.02	-0.02	0	%100
70	MP-1	Z	-0.07	-0.07	0	%100
71	MP-2	Z	-0.07	-0.07	0	%100
72	MP-3	Z	-0.07	-0.07	0	%100
73	MP-4	Z	-0.07	-0.07	0	%100
74	MP-5	Z	-0.07	-0.07	0	%100
75	MP-6	Z	-0.07	-0.07	0	%100
76	MP-7	Z	-0.07	-0.07	0	%100
77	MP-8	Z	-0.07	-0.07	0	%100
78	MP-9	Z	-0.07	-0.07	0	%100
79	SA-1	Z	-0.11	-0.11	0	%100
80	SA-1B	Z	-0.11	-0.11	0	%100
81	SA-2	Z	-0.03	-0.03	0	%100
82	SA-2B	Z	-0.03	-0.03	0	%100
83	SA-3	Z	-0.1	-0.1	0	%100
84	SA-3B	Z	-0.1	-0.1	0	%100
85	K1	Z	-0.11	-0.11	0	%100
86	K2	Z	-0.11	-0.11	0	%100
87	K3	Z	-0.11	-0.11	0	%100
88	K4	Z	-0.11	-0.11	0	%100
89	K5	Z	-0.11	-0.11	0	%100
90	K6	Z	-0.11	-0.11	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	0	0	0	%100
2	CP-2	X	0.19	0.19	0	%100
3	CP-3	X	0.19	0.19	0	%100
4	FFTH-1	X	0.07	0.07	0	%100
5	FFTH-2	X	0.07	0.07	0	%100
6	FFTH-3	X	0.07	0.07	0	%100
7	SF1-TH-1	X	0	0	0	%100
8	SF1-TH-2	X	0	0	0	%100
9	SF1-TH-3	X	0	0	0	%100
10	SF2-TH-1	X	0.05	0.05	0	%100
11	SF2-TH-2	X	0.05	0.05	0	%100
12	SF2-TH-3	X	0.05	0.05	0	%100
13	GSIP-1A	X	0.12	0.12	0	%100
14	GSIP-1B	X	0.12	0.12	0	%100
15	GSIP-2A	X	0.06	0.06	0	%100
16	GSIP-2B	X	0.06	0.06	0	%100
17	GSIP-3A	X	0.05	0.05	0	%100
18	GSIP-3B	X	0.05	0.05	0	%100
19	GSI-1A	X	0.04	0.04	0	%100
20	GSI-1B	X	0.03	0.03	0	%100



Company : Tower Engineering Professionals
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Member Distributed Loads (BLC 9 : 150 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
21	GSI-2A	X	0.03	0.03	0	%100
22	GSI-2B	X	0.08	0.08	0	%100
23	GSI-3A	X	0.08	0.08	0	%100
24	GSI-3B	X	0.04	0.04	0	%100
25	MP-1	X	0.09	0.09	0	%100
26	MP-2	X	0.09	0.09	0	%100
27	MP-3	X	0.09	0.09	0	%100
28	MP-4	X	0.09	0.09	0	%100
29	MP-5	X	0.09	0.09	0	%100
30	MP-6	X	0.09	0.09	0	%100
31	MP-7	X	0.09	0.09	0	%100
32	MP-8	X	0.09	0.09	0	%100
33	MP-9	X	0.09	0.09	0	%100
34	SA-1	X	0.16	0.16	0	%100
35	SA-1B	X	0.16	0.16	0	%100
36	SA-2	X	0.08	0.08	0	%100
37	SA-2B	X	0.08	0.08	0	%100
38	SA-3	X	0.05	0.05	0	%100
39	SA-3B	X	0.05	0.05	0	%100
40	K1	X	0.14	0.14	0	%100
41	K2	X	0.14	0.14	0	%100
42	K3	X	0.14	0.14	0	%100
43	K4	X	0.14	0.14	0	%100
44	K5	X	0.14	0.14	0	%100
45	K6	X	0.14	0.14	0	%100
46	CP-1	Z	0	0	0	%100
47	CP-2	Z	-0.11	-0.11	0	%100
48	CP-3	Z	-0.11	-0.11	0	%100
49	FFTH-1	Z	-0.04	-0.04	0	%100
50	FFTH-2	Z	-0.04	-0.04	0	%100
51	FFTH-3	Z	-0.04	-0.04	0	%100
52	SF1-TH-1	Z	0	0	0	%100
53	SF1-TH-2	Z	0	0	0	%100
54	SF1-TH-3	Z	0	0	0	%100
55	SF2-TH-1	Z	-0.04	-0.04	0	%100
56	SF2-TH-2	Z	-0.04	-0.04	0	%100
57	SF2-TH-3	Z	-0.04	-0.04	0	%100
58	GSIP-1A	Z	-0.06	-0.06	0	%100
59	GSIP-1B	Z	-0.06	-0.06	0	%100
60	GSIP-2A	Z	-0.03	-0.03	0	%100
61	GSIP-2B	Z	-0.03	-0.03	0	%100
62	GSIP-3A	Z	-0.04	-0.04	0	%100
63	GSIP-3B	Z	-0.04	-0.04	0	%100
64	GSI-1A	Z	-0.02	-0.02	0	%100
65	GSI-1B	Z	-0.03	-0.03	0	%100
66	GSI-2A	Z	-0.03	-0.03	0	%100
67	GSI-2B	Z	-0.04	-0.04	0	%100
68	GSI-3A	Z	-0.04	-0.04	0	%100
69	GSI-3B	Z	-0.02	-0.02	0	%100
70	MP-1	Z	-0.05	-0.05	0	%100
71	MP-2	Z	-0.05	-0.05	0	%100
72	MP-3	Z	-0.05	-0.05	0	%100
73	MP-4	Z	-0.05	-0.05	0	%100
74	MP-5	Z	-0.05	-0.05	0	%100
75	MP-6	Z	-0.05	-0.05	0	%100
76	MP-7	Z	-0.05	-0.05	0	%100
77	MP-8	Z	-0.05	-0.05	0	%100



Company : Tower Engineering Professionals
 Designer : GHM
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Member Distributed Loads (BLC 9 : 150 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
78	MP-9	Z	-.005	-.005	0	%100
79	SA-1	Z	-.008	-.008	0	%100
80	SA-1B	Z	-.008	-.008	0	%100
81	SA-2	Z	-.004	-.004	0	%100
82	SA-2B	Z	-.004	-.004	0	%100
83	SA-3	Z	-.005	-.005	0	%100
84	SA-3B	Z	-.005	-.005	0	%100
85	K1	Z	-.008	-.008	0	%100
86	K2	Z	-.008	-.008	0	%100
87	K3	Z	-.008	-.008	0	%100
88	K4	Z	-.008	-.008	0	%100
89	K5	Z	-.008	-.008	0	%100
90	K6	Z	-.008	-.008	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	.013	.013	0	%100
2	CP-2	X	.013	.013	0	%100
3	CP-3	X	.025	.025	0	%100
4	FFTH-1	X	.009	.009	0	%100
5	FFTH-2	X	.009	.009	0	%100
6	FFTH-3	X	.009	.009	0	%100
7	SF1-TH-1	X	.003	.003	0	%100
8	SF1-TH-2	X	.003	.003	0	%100
9	SF1-TH-3	X	.003	.003	0	%100
10	SF2-TH-1	X	.003	.003	0	%100
11	SF2-TH-2	X	.003	.003	0	%100
12	SF2-TH-3	X	.003	.003	0	%100
13	GSIP-1A	X	.012	.012	0	%100
14	GSIP-1B	X	.012	.012	0	%100
15	GSIP-2A	X	.012	.012	0	%100
16	GSIP-2B	X	.012	.012	0	%100
17	GSIP-3A	X	0	0	0	%100
18	GSIP-3B	X	0	0	0	%100
19	GSI-1A	X	.008	.008	0	%100
20	GSI-1B	X	0	0	0	%100
21	GSI-2A	X	0	0	0	%100
22	GSI-2B	X	.008	.008	0	%100
23	GSI-3A	X	.008	.008	0	%100
24	GSI-3B	X	.008	.008	0	%100
25	MP-1	X	.01	.01	0	%100
26	MP-2	X	.01	.01	0	%100
27	MP-3	X	.01	.01	0	%100
28	MP-4	X	.01	.01	0	%100
29	MP-5	X	.01	.01	0	%100
30	MP-6	X	.01	.01	0	%100
31	MP-7	X	.01	.01	0	%100
32	MP-8	X	.01	.01	0	%100
33	MP-9	X	.01	.01	0	%100
34	SA-1	X	.016	.016	0	%100
35	SA-1B	X	.016	.016	0	%100
36	SA-2	X	.016	.016	0	%100
37	SA-2B	X	.016	.016	0	%100
38	SA-3	X	0	0	0	%100
39	SA-3B	X	0	0	0	%100
40	K1	X	.016	.016	0	%100



Company : Tower Engineering Professionals
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Member Distributed Loads (BLC 10 : 180 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
41	K2	X	.016	.016	0	%100
42	K3	X	.016	.016	0	%100
43	K4	X	.016	.016	0	%100
44	K5	X	.016	.016	0	%100
45	K6	X	.016	.016	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	.019	.019	0	%100
2	CP-2	X	0	0	0	%100
3	CP-3	X	.019	.019	0	%100
4	FFTH-1	X	.007	.007	0	%100
5	FFTH-2	X	.007	.007	0	%100
6	FFTH-3	X	.007	.007	0	%100
7	SF1-TH-1	X	.005	.005	0	%100
8	SF1-TH-2	X	.005	.005	0	%100
9	SF1-TH-3	X	.005	.005	0	%100
10	SF2-TH-1	X	0	0	0	%100
11	SF2-TH-2	X	0	0	0	%100
12	SF2-TH-3	X	0	0	0	%100
13	GSIP-1A	X	.006	.006	0	%100
14	GSIP-1B	X	.006	.006	0	%100
15	GSIP-2A	X	.012	.012	0	%100
16	GSIP-2B	X	.012	.012	0	%100
17	GSIP-3A	X	.005	.005	0	%100
18	GSIP-3B	X	.005	.005	0	%100
19	GSI-1A	X	.008	.008	0	%100
20	GSI-1B	X	.003	.003	0	%100
21	GSI-2A	X	.003	.003	0	%100
22	GSI-2B	X	.004	.004	0	%100
23	GSI-3A	X	.004	.004	0	%100
24	GSI-3B	X	.008	.008	0	%100
25	MP-1	X	.009	.009	0	%100
26	MP-2	X	.009	.009	0	%100
27	MP-3	X	.009	.009	0	%100
28	MP-4	X	.009	.009	0	%100
29	MP-5	X	.009	.009	0	%100
30	MP-6	X	.009	.009	0	%100
31	MP-7	X	.009	.009	0	%100
32	MP-8	X	.009	.009	0	%100
33	MP-9	X	.009	.009	0	%100
34	SA-1	X	.008	.008	0	%100
35	SA-1B	X	.008	.008	0	%100
36	SA-2	X	.016	.016	0	%100
37	SA-2B	X	.016	.016	0	%100
38	SA-3	X	.005	.005	0	%100
39	SA-3B	X	.005	.005	0	%100
40	K1	X	.014	.014	0	%100
41	K2	X	.014	.014	0	%100
42	K3	X	.014	.014	0	%100
43	K4	X	.014	.014	0	%100
44	K5	X	.014	.014	0	%100
45	K6	X	.014	.014	0	%100
46	CP-1	Z	.011	.011	0	%100
47	CP-2	Z	0	0	0	%100
48	CP-3	Z	.011	.011	0	%100



Company : Tower Engineering Professionals
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 Model Name : CCI BU No 828915

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
49	FFTH-1	Z	.004	.004	0	%100
50	FFTH-2	Z	.004	.004	0	%100
51	FFTH-3	Z	.004	.004	0	%100
52	SF1-TH-1	Z	.004	.004	0	%100
53	SF1-TH-2	Z	.004	.004	0	%100
54	SF1-TH-3	Z	.004	.004	0	%100
55	SF2-TH-1	Z	0	0	0	%100
56	SF2-TH-2	Z	0	0	0	%100
57	SF2-TH-3	Z	0	0	0	%100
58	GSIP-1A	Z	.003	.003	0	%100
59	GSIP-1B	Z	.003	.003	0	%100
60	GSIP-2A	Z	.006	.006	0	%100
61	GSIP-2B	Z	.006	.006	0	%100
62	GSIP-3A	Z	.004	.004	0	%100
63	GSIP-3B	Z	.004	.004	0	%100
64	GSI-1A	Z	.004	.004	0	%100
65	GSI-1B	Z	.003	.003	0	%100
66	GSI-2A	Z	.003	.003	0	%100
67	GSI-2B	Z	.002	.002	0	%100
68	GSI-3A	Z	.002	.002	0	%100
69	GSI-3B	Z	.004	.004	0	%100
70	MP-1	Z	.005	.005	0	%100
71	MP-2	Z	.005	.005	0	%100
72	MP-3	Z	.005	.005	0	%100
73	MP-4	Z	.005	.005	0	%100
74	MP-5	Z	.005	.005	0	%100
75	MP-6	Z	.005	.005	0	%100
76	MP-7	Z	.005	.005	0	%100
77	MP-8	Z	.005	.005	0	%100
78	MP-9	Z	.005	.005	0	%100
79	SA-1	Z	.004	.004	0	%100
80	SA-1B	Z	.004	.004	0	%100
81	SA-2	Z	.008	.008	0	%100
82	SA-2B	Z	.008	.008	0	%100
83	SA-3	Z	.005	.005	0	%100
84	SA-3B	Z	.005	.005	0	%100
85	K1	Z	.008	.008	0	%100
86	K2	Z	.008	.008	0	%100
87	K3	Z	.008	.008	0	%100
88	K4	Z	.008	.008	0	%100
89	K5	Z	.008	.008	0	%100
90	K6	Z	.008	.008	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	.017	.017	0	%100
2	CP-2	X	.005	.005	0	%100
3	CP-3	X	.013	.013	0	%100
4	FFTH-1	X	.005	.005	0	%100
5	FFTH-2	X	.005	.005	0	%100
6	FFTH-3	X	.005	.005	0	%100
7	SF1-TH-1	X	.005	.005	0	%100
8	SF1-TH-2	X	.005	.005	0	%100
9	SF1-TH-3	X	.005	.005	0	%100
10	SF2-TH-1	X	.001	.001	0	%100
11	SF2-TH-2	X	.001	.001	0	%100



Company : Tower Engineering Professionals
 Designer : GHM
 Job Number : TEP No. 83248.504882
 Model Name : CCI BU No 828915

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
12	SF2-TH-3	X	.001	.001	0	%100
13	GSIP-1A	X	.003	.003	0	%100
14	GSIP-1B	X	.003	.003	0	%100
15	GSIP-2A	X	.009	.009	0	%100
16	GSIP-2B	X	.009	.009	0	%100
17	GSIP-3A	X	.005	.005	0	%100
18	GSIP-3B	X	.005	.005	0	%100
19	GSI-1A	X	.007	.007	0	%100
20	GSI-1B	X	.003	.003	0	%100
21	GSI-2A	X	.003	.003	0	%100
22	GSI-2B	X	.002	.002	0	%100
23	GSI-3A	X	.002	.002	0	%100
24	GSI-3B	X	.007	.007	0	%100
25	MP-1	X	.007	.007	0	%100
26	MP-2	X	.007	.007	0	%100
27	MP-3	X	.007	.007	0	%100
28	MP-4	X	.007	.007	0	%100
29	MP-5	X	.007	.007	0	%100
30	MP-6	X	.007	.007	0	%100
31	MP-7	X	.007	.007	0	%100
32	MP-8	X	.007	.007	0	%100
33	MP-9	X	.007	.007	0	%100
34	SA-1	X	.003	.003	0	%100
35	SA-1B	X	.003	.003	0	%100
36	SA-2	X	.013	.013	0	%100
37	SA-2B	X	.013	.013	0	%100
38	SA-3	X	.006	.006	0	%100
39	SA-3B	X	.006	.006	0	%100
40	K1	X	.011	.011	0	%100
41	K2	X	.011	.011	0	%100
42	K3	X	.011	.011	0	%100
43	K4	X	.011	.011	0	%100
44	K5	X	.011	.011	0	%100
45	K6	X	.011	.011	0	%100
46	CP-1	Z	.017	.017	0	%100
47	CP-2	Z	.005	.005	0	%100
48	CP-3	Z	.013	.013	0	%100
49	FFTH-1	Z	.005	.005	0	%100
50	FFTH-2	Z	.005	.005	0	%100
51	FFTH-3	Z	.005	.005	0	%100
52	SF1-TH-1	Z	.006	.006	0	%100
53	SF1-TH-2	Z	.006	.006	0	%100
54	SF1-TH-3	Z	.006	.006	0	%100
55	SF2-TH-1	Z	.002	.002	0	%100
56	SF2-TH-2	Z	.002	.002	0	%100
57	SF2-TH-3	Z	.002	.002	0	%100
58	GSIP-1A	Z	.002	.002	0	%100
59	GSIP-1B	Z	.002	.002	0	%100
60	GSIP-2A	Z	.008	.008	0	%100
61	GSIP-2B	Z	.008	.008	0	%100
62	GSIP-3A	Z	.007	.007	0	%100
63	GSIP-3B	Z	.007	.007	0	%100
64	GSI-1A	Z	.006	.006	0	%100
65	GSI-1B	Z	.005	.005	0	%100
66	GSI-2A	Z	.005	.005	0	%100
67	GSI-2B	Z	.002	.002	0	%100
68	GSI-3A	Z	.002	.002	0	%100



Company : Tower Engineering Professionals
 Designer : GHM
 Job Number : TEP No. 83248.504882
 Model Name : CCI BU No 828915

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
69	GSI-3B	Z	.006	.006	0	%100
70	MP-1	Z	.007	.007	0	%100
71	MP-2	Z	.007	.007	0	%100
72	MP-3	Z	.007	.007	0	%100
73	MP-4	Z	.007	.007	0	%100
74	MP-5	Z	.007	.007	0	%100
75	MP-6	Z	.007	.007	0	%100
76	MP-7	Z	.007	.007	0	%100
77	MP-8	Z	.007	.007	0	%100
78	MP-9	Z	.007	.007	0	%100
79	SA-1	Z	.003	.003	0	%100
80	SA-1B	Z	.003	.003	0	%100
81	SA-2	Z	.011	.011	0	%100
82	SA-2B	Z	.011	.011	0	%100
83	SA-3	Z	.01	.01	0	%100
84	SA-3B	Z	.01	.01	0	%100
85	K1	Z	.011	.011	0	%100
86	K2	Z	.011	.011	0	%100
87	K3	Z	.011	.011	0	%100
88	K4	Z	.011	.011	0	%100
89	K5	Z	.011	.011	0	%100
90	K6	Z	.011	.011	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	.013	.013	0	%100
2	CP-2	X	.006	.006	0	%100
3	CP-3	X	.006	.006	0	%100
4	FFTH-1	X	.002	.002	0	%100
5	FFTH-2	X	.002	.002	0	%100
6	FFTH-3	X	.002	.002	0	%100
7	SF1-TH-1	X	.003	.003	0	%100
8	SF1-TH-2	X	.003	.003	0	%100
9	SF1-TH-3	X	.003	.003	0	%100
10	SF2-TH-1	X	.002	.002	0	%100
11	SF2-TH-2	X	.002	.002	0	%100
12	SF2-TH-3	X	.002	.002	0	%100
13	GSIP-1A	X	0	0	0	%100
14	GSIP-1B	X	0	0	0	%100
15	GSIP-2A	X	.006	.006	0	%100
16	GSIP-2B	X	.006	.006	0	%100
17	GSIP-3A	X	.005	.005	0	%100
18	GSIP-3B	X	.005	.005	0	%100
19	GSI-1A	X	.004	.004	0	%100
20	GSI-1B	X	.003	.003	0	%100
21	GSI-2A	X	.003	.003	0	%100
22	GSI-2B	X	0	0	0	%100
23	GSI-3A	X	0	0	0	%100
24	GSI-3B	X	.004	.004	0	%100
25	MP-1	X	.005	.005	0	%100
26	MP-2	X	.005	.005	0	%100
27	MP-3	X	.005	.005	0	%100
28	MP-4	X	.005	.005	0	%100
29	MP-5	X	.005	.005	0	%100
30	MP-6	X	.005	.005	0	%100
31	MP-7	X	.005	.005	0	%100



Company : Tower Engineering Professionals
 Designer : GHM
 Job Number : TEP No. 83248.504882
 Model Name : CCI BU No 828915

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
32	MP-8	X	.005	.005	0	%100
33	MP-9	X	.005	.005	0	%100
34	SA-1	X	0	0	0	%100
35	SA-1B	X	0	0	0	%100
36	SA-2	X	.008	.008	0	%100
37	SA-2B	X	.008	.008	0	%100
38	SA-3	X	.005	.005	0	%100
39	SA-3B	X	.005	.005	0	%100
40	K1	X	.008	.008	0	%100
41	K2	X	.008	.008	0	%100
42	K3	X	.008	.008	0	%100
43	K4	X	.008	.008	0	%100
44	K5	X	.008	.008	0	%100
45	K6	X	.008	.008	0	%100
46	CP-1	Z	.022	.022	0	%100
47	CP-2	Z	.011	.011	0	%100
48	CP-3	Z	.011	.011	0	%100
49	FFTH-1	Z	.004	.004	0	%100
50	FFTH-2	Z	.004	.004	0	%100
51	FFTH-3	Z	.004	.004	0	%100
52	SF1-TH-1	Z	.007	.007	0	%100
53	SF1-TH-2	Z	.007	.007	0	%100
54	SF1-TH-3	Z	.007	.007	0	%100
55	SF2-TH-1	Z	.004	.004	0	%100
56	SF2-TH-2	Z	.004	.004	0	%100
57	SF2-TH-3	Z	.004	.004	0	%100
58	GSIP-1A	Z	0	0	0	%100
59	GSIP-1B	Z	0	0	0	%100
60	GSIP-2A	Z	.009	.009	0	%100
61	GSIP-2B	Z	.009	.009	0	%100
62	GSIP-3A	Z	.011	.011	0	%100
63	GSIP-3B	Z	.011	.011	0	%100
64	GSI-1A	Z	.006	.006	0	%100
65	GSI-1B	Z	.008	.008	0	%100
66	GSI-2A	Z	.008	.008	0	%100
67	GSI-2B	Z	0	0	0	%100
68	GSI-3A	Z	0	0	0	%100
69	GSI-3B	Z	.006	.006	0	%100
70	MP-1	Z	.009	.009	0	%100
71	MP-2	Z	.009	.009	0	%100
72	MP-3	Z	.009	.009	0	%100
73	MP-4	Z	.009	.009	0	%100
74	MP-5	Z	.009	.009	0	%100
75	MP-6	Z	.009	.009	0	%100
76	MP-7	Z	.009	.009	0	%100
77	MP-8	Z	.009	.009	0	%100
78	MP-9	Z	.009	.009	0	%100
79	SA-1	Z	0	0	0	%100
80	SA-1B	Z	0	0	0	%100
81	SA-2	Z	.012	.012	0	%100
82	SA-2B	Z	.012	.012	0	%100
83	SA-3	Z	.015	.015	0	%100
84	SA-3B	Z	.015	.015	0	%100
85	K1	Z	.014	.014	0	%100
86	K2	Z	.014	.014	0	%100
87	K3	Z	.014	.014	0	%100
88	K4	Z	.014	.014	0	%100



Company : Tower Engineering Professionals
 Designer : GHM
 Job Number : TEP No. 83248.504882
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Member Distributed Loads (BLC 13 : 240 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
89	K5	Z	.014	.014	0	%100
90	K6	Z	.014	.014	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	Z	.022	.022	0	%100
2	CP-2	Z	.022	.022	0	%100
3	CP-3	Z	0	0	0	%100
4	FFTH-1	Z	0	0	0	%100
5	FFTH-2	Z	0	0	0	%100
6	FFTH-3	Z	0	0	0	%100
7	SF1-TH-1	Z	.007	.007	0	%100
8	SF1-TH-2	Z	.007	.007	0	%100
9	SF1-TH-3	Z	.007	.007	0	%100
10	SF2-TH-1	Z	.007	.007	0	%100
11	SF2-TH-2	Z	.007	.007	0	%100
12	SF2-TH-3	Z	.007	.007	0	%100
13	GSIP-1A	Z	.006	.006	0	%100
14	GSIP-1B	Z	.006	.006	0	%100
15	GSIP-2A	Z	.006	.006	0	%100
16	GSIP-2B	Z	.006	.006	0	%100
17	GSIP-3A	Z	.014	.014	0	%100
18	GSIP-3B	Z	.014	.014	0	%100
19	GSI-1A	Z	.004	.004	0	%100
20	GSI-1B	Z	.01	.01	0	%100
21	GSI-2A	Z	.01	.01	0	%100
22	GSI-2B	Z	.004	.004	0	%100
23	GSI-3A	Z	.004	.004	0	%100
24	GSI-3B	Z	.004	.004	0	%100
25	MP-1	Z	.01	.01	0	%100
26	MP-2	Z	.01	.01	0	%100
27	MP-3	Z	.01	.01	0	%100
28	MP-4	Z	.01	.01	0	%100
29	MP-5	Z	.01	.01	0	%100
30	MP-6	Z	.01	.01	0	%100
31	MP-7	Z	.01	.01	0	%100
32	MP-8	Z	.01	.01	0	%100
33	MP-9	Z	.01	.01	0	%100
34	SA-1	Z	.008	.008	0	%100
35	SA-1B	Z	.008	.008	0	%100
36	SA-2	Z	.008	.008	0	%100
37	SA-2B	Z	.008	.008	0	%100
38	SA-3	Z	.019	.019	0	%100
39	SA-3B	Z	.019	.019	0	%100
40	K1	Z	.016	.016	0	%100
41	K2	Z	.016	.016	0	%100
42	K3	Z	.016	.016	0	%100
43	K4	Z	.016	.016	0	%100
44	K5	Z	.016	.016	0	%100
45	K6	Z	.016	.016	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	-.006	-.006	0	%100
2	CP-2	X	-.013	-.013	0	%100
3	CP-3	X	-.006	-.006	0	%100



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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
4	FFTH-1	X	-.002	-.002	0	%100
5	FFTH-2	X	-.002	-.002	0	%100
6	FFTH-3	X	-.002	-.002	0	%100
7	SF1-TH-1	X	-.002	-.002	0	%100
8	SF1-TH-2	X	-.002	-.002	0	%100
9	SF1-TH-3	X	-.002	-.002	0	%100
10	SF2-TH-1	X	-.003	-.003	0	%100
11	SF2-TH-2	X	-.003	-.003	0	%100
12	SF2-TH-3	X	-.003	-.003	0	%100
13	GSIP-1A	X	-.006	-.006	0	%100
14	GSIP-1B	X	-.006	-.006	0	%100
15	GSIP-2A	X	0	0	0	%100
16	GSIP-2B	X	0	0	0	%100
17	GSIP-3A	X	-.005	-.005	0	%100
18	GSIP-3B	X	-.005	-.005	0	%100
19	GSI-1A	X	0	0	0	%100
20	GSI-1B	X	-.003	-.003	0	%100
21	GSI-2A	X	-.003	-.003	0	%100
22	GSI-2B	X	-.004	-.004	0	%100
23	GSI-3A	X	-.004	-.004	0	%100
24	GSI-3B	X	0	0	0	%100
25	MP-1	X	-.005	-.005	0	%100
26	MP-2	X	-.005	-.005	0	%100
27	MP-3	X	-.005	-.005	0	%100
28	MP-4	X	-.005	-.005	0	%100
29	MP-5	X	-.005	-.005	0	%100
30	MP-6	X	-.005	-.005	0	%100
31	MP-7	X	-.005	-.005	0	%100
32	MP-8	X	-.005	-.005	0	%100
33	MP-9	X	-.005	-.005	0	%100
34	SA-1	X	-.008	-.008	0	%100
35	SA-1B	X	-.008	-.008	0	%100
36	SA-2	X	0	0	0	%100
37	SA-2B	X	0	0	0	%100
38	SA-3	X	-.005	-.005	0	%100
39	SA-3B	X	-.005	-.005	0	%100
40	K1	X	-.008	-.008	0	%100
41	K2	X	-.008	-.008	0	%100
42	K3	X	-.008	-.008	0	%100
43	K4	X	-.008	-.008	0	%100
44	K5	X	-.008	-.008	0	%100
45	K6	X	-.008	-.008	0	%100
46	CP-1	Z	.011	.011	0	%100
47	CP-2	Z	.022	.022	0	%100
48	CP-3	Z	.011	.011	0	%100
49	FFTH-1	Z	.004	.004	0	%100
50	FFTH-2	Z	.004	.004	0	%100
51	FFTH-3	Z	.004	.004	0	%100
52	SF1-TH-1	Z	.004	.004	0	%100
53	SF1-TH-2	Z	.004	.004	0	%100
54	SF1-TH-3	Z	.004	.004	0	%100
55	SF2-TH-1	Z	.007	.007	0	%100
56	SF2-TH-2	Z	.007	.007	0	%100
57	SF2-TH-3	Z	.007	.007	0	%100
58	GSIP-1A	Z	.009	.009	0	%100
59	GSIP-1B	Z	.009	.009	0	%100
60	GSIP-2A	Z	0	0	0	%100



Company : Tower Engineering Professionals
 Designer : GHM
 Job Number : TEP No. 83248.504882
 Model Name : CCI BU No 828915

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
61	GSIP-2B	Z	0	0	%100	
62	GSIP-3A	Z	.011	.011	0	%100
63	GSIP-3B	Z	.011	.011	0	%100
64	GSI-1A	Z	0	0	0	%100
65	GSI-1B	Z	.008	.008	0	%100
66	GSI-2A	Z	.008	.008	0	%100
67	GSI-2B	Z	.006	.006	0	%100
68	GSI-3A	Z	.006	.006	0	%100
69	GSI-3B	Z	0	0	0	%100
70	MP-1	Z	.009	.009	0	%100
71	MP-2	Z	.009	.009	0	%100
72	MP-3	Z	.009	.009	0	%100
73	MP-4	Z	.009	.009	0	%100
74	MP-5	Z	.009	.009	0	%100
75	MP-6	Z	.009	.009	0	%100
76	MP-7	Z	.009	.009	0	%100
77	MP-8	Z	.009	.009	0	%100
78	MP-9	Z	.009	.009	0	%100
79	SA-1	Z	.012	.012	0	%100
80	SA-1B	Z	.012	.012	0	%100
81	SA-2	Z	0	0	0	%100
82	SA-2B	Z	0	0	0	%100
83	SA-3	Z	.015	.015	0	%100
84	SA-3B	Z	.015	.015	0	%100
85	K1	Z	.014	.014	0	%100
86	K2	Z	.014	.014	0	%100
87	K3	Z	.014	.014	0	%100
88	K4	Z	.014	.014	0	%100
89	K5	Z	.014	.014	0	%100
90	K6	Z	.014	.014	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	-.005	-.005	0	%100
2	CP-2	X	-.017	-.017	0	%100
3	CP-3	X	-.013	-.013	0	%100
4	FFTH-1	X	-.005	-.005	0	%100
5	FFTH-2	X	-.005	-.005	0	%100
6	FFTH-3	X	-.005	-.005	0	%100
7	SF1-TH-1	X	-.001	-.001	0	%100
8	SF1-TH-2	X	-.001	-.001	0	%100
9	SF1-TH-3	X	-.001	-.001	0	%100
10	SF2-TH-1	X	-.005	-.005	0	%100
11	SF2-TH-2	X	-.005	-.005	0	%100
12	SF2-TH-3	X	-.005	-.005	0	%100
13	GSIP-1A	X	-.009	-.009	0	%100
14	GSIP-1B	X	-.009	-.009	0	%100
15	GSIP-2A	X	-.003	-.003	0	%100
16	GSIP-2B	X	-.003	-.003	0	%100
17	GSIP-3A	X	-.005	-.005	0	%100
18	GSIP-3B	X	-.005	-.005	0	%100
19	GSI-1A	X	-.002	-.002	0	%100
20	GSI-1B	X	-.003	-.003	0	%100
21	GSI-2A	X	-.003	-.003	0	%100
22	GSI-2B	X	-.007	-.007	0	%100
23	GSI-3A	X	-.007	-.007	0	%100



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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
24	GSI-3B	X	-.002	-.002	0	%100
25	MP-1	X	-.007	-.007	0	%100
26	MP-2	X	-.007	-.007	0	%100
27	MP-3	X	-.007	-.007	0	%100
28	MP-4	X	-.007	-.007	0	%100
29	MP-5	X	-.007	-.007	0	%100
30	MP-6	X	-.007	-.007	0	%100
31	MP-7	X	-.007	-.007	0	%100
32	MP-8	X	-.007	-.007	0	%100
33	MP-9	X	-.007	-.007	0	%100
34	SA-1	X	-.013	-.013	0	%100
35	SA-1B	X	-.013	-.013	0	%100
36	SA-2	X	-.003	-.003	0	%100
37	SA-2B	X	-.003	-.003	0	%100
38	SA-3	X	-.006	-.006	0	%100
39	SA-3B	X	-.006	-.006	0	%100
40	K1	X	-.011	-.011	0	%100
41	K2	X	-.011	-.011	0	%100
42	K3	X	-.011	-.011	0	%100
43	K4	X	-.011	-.011	0	%100
44	K5	X	-.011	-.011	0	%100
45	K6	X	-.011	-.011	0	%100
46	CP-1	Z	.005	.005	0	%100
47	CP-2	Z	.017	.017	0	%100
48	CP-3	Z	.013	.013	0	%100
49	FFTH-1	Z	.005	.005	0	%100
50	FFTH-2	Z	.005	.005	0	%100
51	FFTH-3	Z	.005	.005	0	%100
52	SF1-TH-1	Z	.002	.002	0	%100
53	SF1-TH-2	Z	.002	.002	0	%100
54	SF1-TH-3	Z	.002	.002	0	%100
55	SF2-TH-1	Z	.006	.006	0	%100
56	SF2-TH-2	Z	.006	.006	0	%100
57	SF2-TH-3	Z	.006	.006	0	%100
58	GSIP-1A	Z	.008	.008	0	%100
59	GSIP-1B	Z	.008	.008	0	%100
60	GSIP-2A	Z	.002	.002	0	%100
61	GSIP-2B	Z	.002	.002	0	%100
62	GSIP-3A	Z	.007	.007	0	%100
63	GSIP-3B	Z	.007	.007	0	%100
64	GSI-1A	Z	.002	.002	0	%100
65	GSI-1B	Z	.005	.005	0	%100
66	GSI-2A	Z	.005	.005	0	%100
67	GSI-2B	Z	.006	.006	0	%100
68	GSI-3A	Z	.006	.006	0	%100
69	GSI-3B	Z	.002	.002	0	%100
70	MP-1	Z	.007	.007	0	%100
71	MP-2	Z	.007	.007	0	%100
72	MP-3	Z	.007	.007	0	%100
73	MP-4	Z	.007	.007	0	%100
74	MP-5	Z	.007	.007	0	%100
75	MP-6	Z	.007	.007	0	%100
76	MP-7	Z	.007	.007	0	%100
77	MP-8	Z	.007	.007	0	%100
78	MP-9	Z	.007	.007	0	%100
79	SA-1	Z	.011	.011	0	%100
80	SA-1B	Z	.011	.011	0	%100



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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
81	SA-2	Z	.003	.003	0	%100
82	SA-2B	Z	.003	.003	0	%100
83	SA-3	Z	.01	.01	0	%100
84	SA-3B	Z	.01	.01	0	%100
85	K1	Z	.011	.011	0	%100
86	K2	Z	.011	.011	0	%100
87	K3	Z	.011	.011	0	%100
88	K4	Z	.011	.011	0	%100
89	K5	Z	.011	.011	0	%100
90	K6	Z	.011	.011	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	0	0	0	%100
2	CP-2	X	-.019	-.019	0	%100
3	CP-3	X	-.019	-.019	0	%100
4	FFTH-1	X	-.007	-.007	0	%100
5	FFTH-2	X	-.007	-.007	0	%100
6	FFTH-3	X	-.007	-.007	0	%100
7	SF1-TH-1	X	0	0	0	%100
8	SF1-TH-2	X	0	0	0	%100
9	SF1-TH-3	X	0	0	0	%100
10	SF2-TH-1	X	-.005	-.005	0	%100
11	SF2-TH-2	X	-.005	-.005	0	%100
12	SF2-TH-3	X	-.005	-.005	0	%100
13	GSIP-1A	X	-.012	-.012	0	%100
14	GSIP-1B	X	-.012	-.012	0	%100
15	GSIP-2A	X	-.006	-.006	0	%100
16	GSIP-2B	X	-.006	-.006	0	%100
17	GSIP-3A	X	-.005	-.005	0	%100
18	GSIP-3B	X	-.005	-.005	0	%100
19	GSI-1A	X	-.004	-.004	0	%100
20	GSI-1B	X	-.003	-.003	0	%100
21	GSI-2A	X	-.003	-.003	0	%100
22	GSI-2B	X	-.008	-.008	0	%100
23	GSI-3A	X	-.008	-.008	0	%100
24	GSI-3B	X	-.004	-.004	0	%100
25	MP-1	X	-.009	-.009	0	%100
26	MP-2	X	-.009	-.009	0	%100
27	MP-3	X	-.009	-.009	0	%100
28	MP-4	X	-.009	-.009	0	%100
29	MP-5	X	-.009	-.009	0	%100
30	MP-6	X	-.009	-.009	0	%100
31	MP-7	X	-.009	-.009	0	%100
32	MP-8	X	-.009	-.009	0	%100
33	MP-9	X	-.009	-.009	0	%100
34	SA-1	X	-.016	-.016	0	%100
35	SA-1B	X	-.016	-.016	0	%100
36	SA-2	X	-.008	-.008	0	%100
37	SA-2B	X	-.008	-.008	0	%100
38	SA-3	X	-.005	-.005	0	%100
39	SA-3B	X	-.005	-.005	0	%100
40	K1	X	-.014	-.014	0	%100
41	K2	X	-.014	-.014	0	%100
42	K3	X	-.014	-.014	0	%100
43	K4	X	-.014	-.014	0	%100



Company : Tower Engineering Professionals
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Member Distributed Loads (BLC 17 : 330 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
44	K5	X	-.014	-.014	0	%100
45	K6	X	-.014	-.014	0	%100
46	CP-1	Z	0	0	0	%100
47	CP-2	Z	.011	.011	0	%100
48	CP-3	Z	.011	.011	0	%100
49	FFTH-1	Z	.004	.004	0	%100
50	FFTH-2	Z	.004	.004	0	%100
51	FFTH-3	Z	.004	.004	0	%100
52	SF1-TH-1	Z	0	0	0	%100
53	SF1-TH-2	Z	0	0	0	%100
54	SF1-TH-3	Z	0	0	0	%100
55	SF2-TH-1	Z	.004	.004	0	%100
56	SF2-TH-2	Z	.004	.004	0	%100
57	SF2-TH-3	Z	.004	.004	0	%100
58	GSIP-1A	Z	.006	.006	0	%100
59	GSIP-1B	Z	.006	.006	0	%100
60	GSIP-2A	Z	.003	.003	0	%100
61	GSIP-2B	Z	.003	.003	0	%100
62	GSIP-3A	Z	.004	.004	0	%100
63	GSIP-3B	Z	.004	.004	0	%100
64	GSI-1A	Z	.002	.002	0	%100
65	GSI-1B	Z	.003	.003	0	%100
66	GSI-2A	Z	.003	.003	0	%100
67	GSI-2B	Z	.004	.004	0	%100
68	GSI-3A	Z	.004	.004	0	%100
69	GSI-3B	Z	.002	.002	0	%100
70	MP-1	Z	.005	.005	0	%100
71	MP-2	Z	.005	.005	0	%100
72	MP-3	Z	.005	.005	0	%100
73	MP-4	Z	.005	.005	0	%100
74	MP-5	Z	.005	.005	0	%100
75	MP-6	Z	.005	.005	0	%100
76	MP-7	Z	.005	.005	0	%100
77	MP-8	Z	.005	.005	0	%100
78	MP-9	Z	.005	.005	0	%100
79	SA-1	Z	.008	.008	0	%100
80	SA-1B	Z	.008	.008	0	%100
81	SA-2	Z	.004	.004	0	%100
82	SA-2B	Z	.004	.004	0	%100
83	SA-3	Z	.005	.005	0	%100
84	SA-3B	Z	.005	.005	0	%100
85	K1	Z	.008	.008	0	%100
86	K2	Z	.008	.008	0	%100
87	K3	Z	.008	.008	0	%100
88	K4	Z	.008	.008	0	%100
89	K5	Z	.008	.008	0	%100
90	K6	Z	.008	.008	0	%100

Member Distributed Loads (BLC 18 : Ice Weight)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	Y	-.007	-.007	0	%100
2	CP-2	Y	-.007	-.007	0	%100
3	CP-3	Y	-.007	-.007	0	%100
4	FFTH-1	Y	-.007	-.007	0	%100
5	FFTH-2	Y	-.007	-.007	0	%100
6	FFTH-3	Y	-.007	-.007	0	%100



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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
7	SF1-TH-1	Y	-0.07	-0.07	0	%100
8	SF1-TH-2	Y	-0.07	-0.07	0	%100
9	SF1-TH-3	Y	-0.07	-0.07	0	%100
10	SF2-TH-1	Y	-0.07	-0.07	0	%100
11	SF2-TH-2	Y	-0.07	-0.07	0	%100
12	SF2-TH-3	Y	-0.07	-0.07	0	%100
13	GSIP-1A	Y	-0.05	-0.05	0	%100
14	GSIP-1B	Y	-0.05	-0.05	0	%100
15	GSIP-2A	Y	-0.05	-0.05	0	%100
16	GSIP-2B	Y	-0.05	-0.05	0	%100
17	GSIP-3A	Y	-0.05	-0.05	0	%100
18	GSIP-3B	Y	-0.05	-0.05	0	%100
19	GSI-1A	Y	-0.04	-0.04	0	%100
20	GSI-1B	Y	-0.04	-0.04	0	%100
21	GSI-2A	Y	-0.04	-0.04	0	%100
22	GSI-2B	Y	-0.04	-0.04	0	%100
23	GSI-3A	Y	-0.04	-0.04	0	%100
24	GSI-3B	Y	-0.04	-0.04	0	%100
25	MP-1	Y	-0.05	-0.05	0	%100
26	MP-2	Y	-0.05	-0.05	0	%100
27	MP-3	Y	-0.05	-0.05	0	%100
28	MP-4	Y	-0.05	-0.05	0	%100
29	MP-5	Y	-0.05	-0.05	0	%100
30	MP-6	Y	-0.05	-0.05	0	%100
31	MP-7	Y	-0.05	-0.05	0	%100
32	MP-8	Y	-0.05	-0.05	0	%100
33	MP-9	Y	-0.05	-0.05	0	%100
34	SA-1	Y	-0.06	-0.06	0	%100
35	SA-1B	Y	-0.06	-0.06	0	%100
36	SA-2	Y	-0.06	-0.06	0	%100
37	SA-2B	Y	-0.06	-0.06	0	%100
38	SA-3	Y	-0.06	-0.06	0	%100
39	SA-3B	Y	-0.06	-0.06	0	%100
40	K1	Y	-0.05	-0.05	0	%100
41	K2	Y	-0.05	-0.05	0	%100
42	K3	Y	-0.05	-0.05	0	%100
43	K4	Y	-0.05	-0.05	0	%100
44	K5	Y	-0.05	-0.05	0	%100
45	K6	Y	-0.05	-0.05	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	-0.07	-0.07	0	%100
2	CP-2	X	-0.07	-0.07	0	%100
3	CP-3	X	-0.07	-0.07	0	%100
4	FFTH-1	X	-0.03	-0.03	0	%100
5	FFTH-2	X	-0.03	-0.03	0	%100
6	FFTH-3	X	-0.03	-0.03	0	%100
7	SF1-TH-1	X	-0.03	-0.03	0	%100
8	SF1-TH-2	X	-0.03	-0.03	0	%100
9	SF1-TH-3	X	-0.03	-0.03	0	%100
10	SF2-TH-1	X	-0.03	-0.03	0	%100
11	SF2-TH-2	X	-0.03	-0.03	0	%100
12	SF2-TH-3	X	-0.03	-0.03	0	%100
13	GSIP-1A	X	-0.04	-0.04	0	%100
14	GSIP-1B	X	-0.04	-0.04	0	%100



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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
15	GSIP-2A	X	-0.04	-0.04	0	%100
16	GSIP-2B	X	-0.04	-0.04	0	%100
17	GSIP-3A	X	-0.04	-0.04	0	%100
18	GSIP-3B	X	-0.04	-0.04	0	%100
19	GSI-1A	X	-0.04	-0.04	0	%100
20	GSI-1B	X	-0.03	-0.03	0	%100
21	GSI-2A	X	-0.03	-0.03	0	%100
22	GSI-2B	X	-0.04	-0.04	0	%100
23	GSI-3A	X	-0.04	-0.04	0	%100
24	GSI-3B	X	-0.04	-0.04	0	%100
25	MP-1	X	-0.03	-0.03	0	%100
26	MP-2	X	-0.03	-0.03	0	%100
27	MP-3	X	-0.03	-0.03	0	%100
28	MP-4	X	-0.03	-0.03	0	%100
29	MP-5	X	-0.03	-0.03	0	%100
30	MP-6	X	-0.03	-0.03	0	%100
31	MP-7	X	-0.03	-0.03	0	%100
32	MP-8	X	-0.03	-0.03	0	%100
33	MP-9	X	-0.03	-0.03	0	%100
34	SA-1	X	-0.05	-0.05	0	%100
35	SA-1B	X	-0.05	-0.05	0	%100
36	SA-2	X	-0.05	-0.05	0	%100
37	SA-2B	X	-0.05	-0.05	0	%100
38	SA-3	X	-0.04	-0.04	0	%100
39	SA-3B	X	-0.04	-0.04	0	%100
40	K1	X	-0.04	-0.04	0	%100
41	K2	X	-0.04	-0.04	0	%100
42	K3	X	-0.04	-0.04	0	%100
43	K4	X	-0.04	-0.04	0	%100
44	K5	X	-0.04	-0.04	0	%100
45	K6	X	-0.04	-0.04	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	-0.05	-0.05	0	%100
2	CP-2	X	0	0	0	%100
3	CP-3	X	-0.05	-0.05	0	%100
4	FFTH-1	X	-0.02	-0.02	0	%100
5	FFTH-2	X	-0.02	-0.02	0	%100
6	FFTH-3	X	-0.02	-0.02	0	%100
7	SF1-TH-1	X	-0.02	-0.02	0	%100
8	SF1-TH-2	X	-0.02	-0.02	0	%100
9	SF1-TH-3	X	-0.02	-0.02	0	%100
10	SF2-TH-1	X	0	0	0	%100
11	SF2-TH-2	X	0	0	0	%100
12	SF2-TH-3	X	0	0	0	%100
13	GSIP-1A	X	-0.02	-0.02	0	%100
14	GSIP-1B	X	-0.02	-0.02	0	%100
15	GSIP-2A	X	-0.04	-0.04	0	%100
16	GSIP-2B	X	-0.04	-0.04	0	%100
17	GSIP-3A	X	-0.02	-0.02	0	%100
18	GSIP-3B	X	-0.02	-0.02	0	%100
19	GSI-1A	X	-0.03	-0.03	0	%100
20	GSI-1B	X	-0.01	-0.01	0	%100
21	GSI-2A	X	-0.01	-0.01	0	%100
22	GSI-2B	X	-0.02	-0.02	0	%100



Company : Tower Engineering Professionals
 Designer : GHM
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Member Distributed Loads (BLC 20 : 30 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
23	GSI-3A	X	-0.02	-0.02	0	%100
24	GSI-3B	X	-0.003	-0.003	0	%100
25	MP-1	X	-0.002	-0.002	0	%100
26	MP-2	X	-0.002	-0.002	0	%100
27	MP-3	X	-0.002	-0.002	0	%100
28	MP-4	X	-0.002	-0.002	0	%100
29	MP-5	X	-0.002	-0.002	0	%100
30	MP-6	X	-0.002	-0.002	0	%100
31	MP-7	X	-0.002	-0.002	0	%100
32	MP-8	X	-0.002	-0.002	0	%100
33	MP-9	X	-0.002	-0.002	0	%100
34	SA-1	X	-0.002	-0.002	0	%100
35	SA-1B	X	-0.002	-0.002	0	%100
36	SA-2	X	-0.004	-0.004	0	%100
37	SA-2B	X	-0.004	-0.004	0	%100
38	SA-3	X	-0.002	-0.002	0	%100
39	SA-3B	X	-0.002	-0.002	0	%100
40	K1	X	-0.004	-0.004	0	%100
41	K2	X	-0.004	-0.004	0	%100
42	K3	X	-0.004	-0.004	0	%100
43	K4	X	-0.004	-0.004	0	%100
44	K5	X	-0.004	-0.004	0	%100
45	K6	X	-0.004	-0.004	0	%100
46	CP-1	Z	-0.003	-0.003	0	%100
47	CP-2	Z	0	0	0	%100
48	CP-3	Z	-0.003	-0.003	0	%100
49	FFTH-1	Z	-0.001	-0.001	0	%100
50	FFTH-2	Z	-0.001	-0.001	0	%100
51	FFTH-3	Z	-0.001	-0.001	0	%100
52	SF1-TH-1	Z	-0.001	-0.001	0	%100
53	SF1-TH-2	Z	-0.001	-0.001	0	%100
54	SF1-TH-3	Z	-0.001	-0.001	0	%100
55	SF2-TH-1	Z	0	0	0	%100
56	SF2-TH-2	Z	0	0	0	%100
57	SF2-TH-3	Z	0	0	0	%100
58	GSIP-1A	Z	-0.000981	-0.000981	0	%100
59	GSIP-1B	Z	-0.000981	-0.000981	0	%100
60	GSIP-2A	Z	-0.002	-0.002	0	%100
61	GSIP-2B	Z	-0.002	-0.002	0	%100
62	GSIP-3A	Z	-0.001	-0.001	0	%100
63	GSIP-3B	Z	-0.001	-0.001	0	%100
64	GSI-1A	Z	-0.002	-0.002	0	%100
65	GSI-1B	Z	-0.000916	-0.000916	0	%100
66	GSI-2A	Z	-0.000916	-0.000916	0	%100
67	GSI-2B	Z	-0.000808	-0.000808	0	%100
68	GSI-3A	Z	-0.000808	-0.000808	0	%100
69	GSI-3B	Z	-0.002	-0.002	0	%100
70	MP-1	Z	-0.002	-0.002	0	%100
71	MP-2	Z	-0.002	-0.002	0	%100
72	MP-3	Z	-0.002	-0.002	0	%100
73	MP-4	Z	-0.002	-0.002	0	%100
74	MP-5	Z	-0.002	-0.002	0	%100
75	MP-6	Z	-0.002	-0.002	0	%100
76	MP-7	Z	-0.002	-0.002	0	%100
77	MP-8	Z	-0.002	-0.002	0	%100
78	MP-9	Z	-0.002	-0.002	0	%100
79	SA-1	Z	-0.001	-0.001	0	%100



Company : Tower Engineering Professionals
 Designer : GHM
 Job Number : TEP No. 83248.504882
 Model Name : CCI BU No 828915

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
80	SA-1B	Z	-0.001	-0.001	0	%100
81	SA-2	Z	-0.002	-0.002	0	%100
82	SA-2B	Z	-0.002	-0.002	0	%100
83	SA-3	Z	-0.001	-0.001	0	%100
84	SA-3B	Z	-0.001	-0.001	0	%100
85	K1	Z	-0.002	-0.002	0	%100
86	K2	Z	-0.002	-0.002	0	%100
87	K3	Z	-0.002	-0.002	0	%100
88	K4	Z	-0.002	-0.002	0	%100
89	K5	Z	-0.002	-0.002	0	%100
90	K6	Z	-0.002	-0.002	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	-0.005	-0.005	0	%100
2	CP-2	X	-0.001	-0.001	0	%100
3	CP-3	X	-0.004	-0.004	0	%100
4	FFTH-1	X	-0.002	-0.002	0	%100
5	FFTH-2	X	-0.002	-0.002	0	%100
6	FFTH-3	X	-0.002	-0.002	0	%100
7	SF1-TH-1	X	-0.002	-0.002	0	%100
8	SF1-TH-2	X	-0.002	-0.002	0	%100
9	SF1-TH-3	X	-0.002	-0.002	0	%100
10	SF2-TH-1	X	-0.000504	-0.000504	0	%100
11	SF2-TH-2	X	-0.000504	-0.000504	0	%100
12	SF2-TH-3	X	-0.000504	-0.000504	0	%100
13	GSIP-1A	X	-0.000787	-0.000787	0	%100
14	GSIP-1B	X	-0.000787	-0.000787	0	%100
15	GSIP-2A	X	-0.003	-0.003	0	%100
16	GSIP-2B	X	-0.003	-0.003	0	%100
17	GSIP-3A	X	-0.002	-0.002	0	%100
18	GSIP-3B	X	-0.002	-0.002	0	%100
19	GSI-1A	X	-0.002	-0.002	0	%100
20	GSI-1B	X	-0.001	-0.001	0	%100
21	GSI-2A	X	-0.001	-0.001	0	%100
22	GSI-2B	X	-0.000652	-0.000652	0	%100
23	GSI-3A	X	-0.000652	-0.000652	0	%100
24	GSI-3B	X	-0.002	-0.002	0	%100
25	MP-1	X	-0.002	-0.002	0	%100
26	MP-2	X	-0.002	-0.002	0	%100
27	MP-3	X	-0.002	-0.002	0	%100
28	MP-4	X	-0.002	-0.002	0	%100
29	MP-5	X	-0.002	-0.002	0	%100
30	MP-6	X	-0.002	-0.002	0	%100
31	MP-7	X	-0.002	-0.002	0	%100
32	MP-8	X	-0.002	-0.002	0	%100
33	MP-9	X	-0.002	-0.002	0	%100
34	SA-1	X	-0.000922	-0.000922	0	%100
35	SA-1B	X	-0.000922	-0.000922	0	%100
36	SA-2	X	-0.003	-0.003	0	%100
37	SA-2B	X	-0.003	-0.003	0	%100
38	SA-3	X	-0.002	-0.002	0	%100
39	SA-3B	X	-0.002	-0.002	0	%100
40	K1	X	-0.003	-0.003	0	%100
41	K2	X	-0.003	-0.003	0	%100
42	K3	X	-0.003	-0.003	0	%100



Company : Tower Engineering Professionals
 Designer : GHM
 Job Number : TEP No. 83248.504882
 Model Name : CCI BU No 828915

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
43	K4	X	-0.003	-0.003	0	%100
44	K5	X	-0.003	-0.003	0	%100
45	K6	X	-0.003	-0.003	0	%100
46	CP-1	Z	-0.005	-0.005	0	%100
47	CP-2	Z	-0.001	-0.001	0	%100
48	CP-3	Z	-0.003	-0.003	0	%100
49	FFTH-1	Z	-0.001	-0.001	0	%100
50	FFTH-2	Z	-0.001	-0.001	0	%100
51	FFTH-3	Z	-0.001	-0.001	0	%100
52	SF1-TH-1	Z	-0.002	-0.002	0	%100
53	SF1-TH-2	Z	-0.002	-0.002	0	%100
54	SF1-TH-3	Z	-0.002	-0.002	0	%100
55	SF2-TH-1	Z	-0.000555	-0.000555	0	%100
56	SF2-TH-2	Z	-0.000555	-0.000555	0	%100
57	SF2-TH-3	Z	-0.000555	-0.000555	0	%100
58	GSIP-1A	Z	-0.000718	-0.000718	0	%100
59	GSIP-1B	Z	-0.000718	-0.000718	0	%100
60	GSIP-2A	Z	-0.003	-0.003	0	%100
61	GSIP-2B	Z	-0.003	-0.003	0	%100
62	GSIP-3A	Z	-0.002	-0.002	0	%100
63	GSIP-3B	Z	-0.002	-0.002	0	%100
64	GSI-1A	Z	-0.002	-0.002	0	%100
65	GSI-1B	Z	-0.002	-0.002	0	%100
66	GSI-2A	Z	-0.002	-0.002	0	%100
67	GSI-2B	Z	-0.000591	-0.000591	0	%100
68	GSI-3A	Z	-0.000591	-0.000591	0	%100
69	GSI-3B	Z	-0.002	-0.002	0	%100
70	MP-1	Z	-0.002	-0.002	0	%100
71	MP-2	Z	-0.002	-0.002	0	%100
72	MP-3	Z	-0.002	-0.002	0	%100
73	MP-4	Z	-0.002	-0.002	0	%100
74	MP-5	Z	-0.002	-0.002	0	%100
75	MP-6	Z	-0.002	-0.002	0	%100
76	MP-7	Z	-0.002	-0.002	0	%100
77	MP-8	Z	-0.002	-0.002	0	%100
78	MP-9	Z	-0.002	-0.002	0	%100
79	SA-1	Z	-0.00083	-0.00083	0	%100
80	SA-1B	Z	-0.00083	-0.00083	0	%100
81	SA-2	Z	-0.003	-0.003	0	%100
82	SA-2B	Z	-0.003	-0.003	0	%100
83	SA-3	Z	-0.003	-0.003	0	%100
84	SA-3B	Z	-0.003	-0.003	0	%100
85	K1	Z	-0.003	-0.003	0	%100
86	K2	Z	-0.003	-0.003	0	%100
87	K3	Z	-0.003	-0.003	0	%100
88	K4	Z	-0.003	-0.003	0	%100
89	K5	Z	-0.003	-0.003	0	%100
90	K6	Z	-0.003	-0.003	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	-0.004	-0.004	0	%100
2	CP-2	X	-0.002	-0.002	0	%100
3	CP-3	X	-0.002	-0.002	0	%100
4	FFTH-1	X	-0.000783	-0.000783	0	%100
5	FFTH-2	X	-0.000783	-0.000783	0	%100



Company : Tower Engineering Professionals
 Designer : GHM
 Job Number : TEP No. 83248.504882
 Model Name : CCI BU No 828915

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
6	FFTH-3	X	-0.000783	-0.000783	0	%100
7	SF1-TH-1	X	-0.001	-0.001	0	%100
8	SF1-TH-2	X	-0.001	-0.001	0	%100
9	SF1-TH-3	X	-0.001	-0.001	0	%100
10	SF2-TH-1	X	-0.000689	-0.000689	0	%100
11	SF2-TH-2	X	-0.000689	-0.000689	0	%100
12	SF2-TH-3	X	-0.000689	-0.000689	0	%100
13	GSIP-1A	X	0	0	0	%100
14	GSIP-1B	X	0	0	0	%100
15	GSIP-2A	X	-0.002	-0.002	0	%100
16	GSIP-2B	X	-0.002	-0.002	0	%100
17	GSIP-3A	X	-0.002	-0.002	0	%100
18	GSIP-3B	X	-0.002	-0.002	0	%100
19	GSI-1A	X	-0.002	-0.002	0	%100
20	GSI-1B	X	-0.001	-0.001	0	%100
21	GSI-2A	X	-0.001	-0.001	0	%100
22	GSI-2B	X	0	0	0	%100
23	GSI-3A	X	0	0	0	%100
24	GSI-3B	X	-0.002	-0.002	0	%100
25	MP-1	X	-0.001	-0.001	0	%100
26	MP-2	X	-0.001	-0.001	0	%100
27	MP-3	X	-0.001	-0.001	0	%100
28	MP-4	X	-0.001	-0.001	0	%100
29	MP-5	X	-0.001	-0.001	0	%100
30	MP-6	X	-0.001	-0.001	0	%100
31	MP-7	X	-0.001	-0.001	0	%100
32	MP-8	X	-0.001	-0.001	0	%100
33	MP-9	X	-0.001	-0.001	0	%100
34	SA-1	X	0	0	0	%100
35	SA-1B	X	0	0	0	%100
36	SA-2	X	-0.002	-0.002	0	%100
37	SA-2B	X	-0.002	-0.002	0	%100
38	SA-3	X	-0.002	-0.002	0	%100
39	SA-3B	X	-0.002	-0.002	0	%100
40	K1	X	-0.002	-0.002	0	%100
41	K2	X	-0.002	-0.002	0	%100
42	K3	X	-0.002	-0.002	0	%100
43	K4	X	-0.002	-0.002	0	%100
44	K5	X	-0.002	-0.002	0	%100
45	K6	X	-0.002	-0.002	0	%100
46	CP-1	Z	-0.006	-0.006	0	%100
47	CP-2	Z	-0.003	-0.003	0	%100
48	CP-3	Z	-0.003	-0.003	0	%100
49	FFTH-1	Z	-0.001	-0.001	0	%100
50	FFTH-2	Z	-0.001	-0.001	0	%100
51	FFTH-3	Z	-0.001	-0.001	0	%100
52	SF1-TH-1	Z	-0.003	-0.003	0	%100
53	SF1-TH-2	Z	-0.003	-0.003	0	%100
54	SF1-TH-3	Z	-0.003	-0.003	0	%100
55	SF2-TH-1	Z	-0.001	-0.001	0	%100
56	SF2-TH-2	Z	-0.001	-0.001	0	%100
57	SF2-TH-3	Z	-0.001	-0.001	0	%100
58	GSIP-1A	Z	0	0	0	%100
59	GSIP-1B	Z	0	0	0	%100
60	GSIP-2A	Z	-0.003	-0.003	0	%100
61	GSIP-2B	Z	-0.003	-0.003	0	%100
62	GSIP-3A	Z	-0.003	-0.003	0	%100



Company : Tower Engineering Professionals
 Designer : GHM
 Job Number : TEP No. 83248.504882
 Model Name : CCI BU No 828915

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
63	GSIP-3B	Z	-0.03	-0.03	0	%100
64	GSI-1A	Z	-0.02	-0.02	0	%100
65	GSI-1B	Z	-0.03	-0.03	0	%100
66	GSI-2A	Z	-0.03	-0.03	0	%100
67	GSI-2B	Z	0	0	0	%100
68	GSI-3A	Z	0	0	0	%100
69	GSI-3B	Z	-0.02	-0.02	0	%100
70	MP-1	Z	-0.03	-0.03	0	%100
71	MP-2	Z	-0.03	-0.03	0	%100
72	MP-3	Z	-0.03	-0.03	0	%100
73	MP-4	Z	-0.03	-0.03	0	%100
74	MP-5	Z	-0.03	-0.03	0	%100
75	MP-6	Z	-0.03	-0.03	0	%100
76	MP-7	Z	-0.03	-0.03	0	%100
77	MP-8	Z	-0.03	-0.03	0	%100
78	MP-9	Z	-0.03	-0.03	0	%100
79	SA-1	Z	0	0	0	%100
80	SA-1B	Z	0	0	0	%100
81	SA-2	Z	-0.03	-0.03	0	%100
82	SA-2B	Z	-0.03	-0.03	0	%100
83	SA-3	Z	-0.04	-0.04	0	%100
84	SA-3B	Z	-0.04	-0.04	0	%100
85	K1	Z	-0.04	-0.04	0	%100
86	K2	Z	-0.04	-0.04	0	%100
87	K3	Z	-0.04	-0.04	0	%100
88	K4	Z	-0.04	-0.04	0	%100
89	K5	Z	-0.04	-0.04	0	%100
90	K6	Z	-0.04	-0.04	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	Z	-0.06	-0.06	0	%100
2	CP-2	Z	-0.06	-0.06	0	%100
3	CP-3	Z	0	0	0	%100
4	FFTH-1	Z	0	0	0	%100
5	FFTH-2	Z	0	0	0	%100
6	FFTH-3	Z	0	0	0	%100
7	SF1-TH-1	Z	-0.03	-0.03	0	%100
8	SF1-TH-2	Z	-0.03	-0.03	0	%100
9	SF1-TH-3	Z	-0.03	-0.03	0	%100
10	SF2-TH-1	Z	-0.03	-0.03	0	%100
11	SF2-TH-2	Z	-0.03	-0.03	0	%100
12	SF2-TH-3	Z	-0.03	-0.03	0	%100
13	GSIP-1A	Z	-0.02	-0.02	0	%100
14	GSIP-1B	Z	-0.02	-0.02	0	%100
15	GSIP-2A	Z	-0.02	-0.02	0	%100
16	GSIP-2B	Z	-0.02	-0.02	0	%100
17	GSIP-3A	Z	-0.04	-0.04	0	%100
18	GSIP-3B	Z	-0.04	-0.04	0	%100
19	GSI-1A	Z	-0.02	-0.02	0	%100
20	GSI-1B	Z	-0.04	-0.04	0	%100
21	GSI-2A	Z	-0.04	-0.04	0	%100
22	GSI-2B	Z	-0.02	-0.02	0	%100
23	GSI-3A	Z	-0.02	-0.02	0	%100
24	GSI-3B	Z	-0.02	-0.02	0	%100
25	MP-1	Z	-0.03	-0.03	0	%100



Company : Tower Engineering Professionals
 Designer : GHM
 Job Number : TEP No. 83248.504882
 Model Name : CCI BU No 828915

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
26	MP-2	Z	-0.03	-0.03	0	%100
27	MP-3	Z	-0.03	-0.03	0	%100
28	MP-4	Z	-0.03	-0.03	0	%100
29	MP-5	Z	-0.03	-0.03	0	%100
30	MP-6	Z	-0.03	-0.03	0	%100
31	MP-7	Z	-0.03	-0.03	0	%100
32	MP-8	Z	-0.03	-0.03	0	%100
33	MP-9	Z	-0.03	-0.03	0	%100
34	SA-1	Z	-0.02	-0.02	0	%100
35	SA-1B	Z	-0.02	-0.02	0	%100
36	SA-2	Z	-0.02	-0.02	0	%100
37	SA-2B	Z	-0.02	-0.02	0	%100
38	SA-3	Z	-0.05	-0.05	0	%100
39	SA-3B	Z	-0.05	-0.05	0	%100
40	K1	Z	-0.05	-0.05	0	%100
41	K2	Z	-0.05	-0.05	0	%100
42	K3	Z	-0.05	-0.05	0	%100
43	K4	Z	-0.05	-0.05	0	%100
44	K5	Z	-0.05	-0.05	0	%100
45	K6	Z	-0.05	-0.05	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	.002	.002	0	%100
2	CP-2	X	.004	.004	0	%100
3	CP-3	X	.002	.002	0	%100
4	FFTH-1	X	.000783	.000783	0	%100
5	FFTH-2	X	.000783	.000783	0	%100
6	FFTH-3	X	.000783	.000783	0	%100
7	SF1-TH-1	X	.000689	.000689	0	%100
8	SF1-TH-2	X	.000689	.000689	0	%100
9	SF1-TH-3	X	.000689	.000689	0	%100
10	SF2-TH-1	X	.001	.001	0	%100
11	SF2-TH-2	X	.001	.001	0	%100
12	SF2-TH-3	X	.001	.001	0	%100
13	GSIP-1A	X	.002	.002	0	%100
14	GSIP-1B	X	.002	.002	0	%100
15	GSIP-2A	X	0	0	0	%100
16	GSIP-2B	X	0	0	0	%100
17	GSIP-3A	X	.002	.002	0	%100
18	GSIP-3B	X	.002	.002	0	%100
19	GSI-1A	X	0	0	0	%100
20	GSI-1B	X	.001	.001	0	%100
21	GSI-2A	X	.001	.001	0	%100
22	GSI-2B	X	.002	.002	0	%100
23	GSI-3A	X	.002	.002	0	%100
24	GSI-3B	X	0	0	0	%100
25	MP-1	X	.001	.001	0	%100
26	MP-2	X	.001	.001	0	%100
27	MP-3	X	.001	.001	0	%100
28	MP-4	X	.001	.001	0	%100
29	MP-5	X	.001	.001	0	%100
30	MP-6	X	.001	.001	0	%100
31	MP-7	X	.001	.001	0	%100
32	MP-8	X	.001	.001	0	%100
33	MP-9	X	.001	.001	0	%100



Company : Tower Engineering Professionals
 Designer : GHM
 Job Number : TEP No. 83248.504882
 Model Name : CCI BU No 828915

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
34	SA-1	X	.002	.002	0	%100
35	SA-1B	X	.002	.002	0	%100
36	SA-2	X	0	0	0	%100
37	SA-2B	X	0	0	0	%100
38	SA-3	X	.002	.002	0	%100
39	SA-3B	X	.002	.002	0	%100
40	K1	X	.002	.002	0	%100
41	K2	X	.002	.002	0	%100
42	K3	X	.002	.002	0	%100
43	K4	X	.002	.002	0	%100
44	K5	X	.002	.002	0	%100
45	K6	X	.002	.002	0	%100
46	CP-1	Z	-.003	-.003	0	%100
47	CP-2	Z	-.006	-.006	0	%100
48	CP-3	Z	-.003	-.003	0	%100
49	FFTH-1	Z	-.001	-.001	0	%100
50	FFTH-2	Z	-.001	-.001	0	%100
51	FFTH-3	Z	-.001	-.001	0	%100
52	SF1-TH-1	Z	-.001	-.001	0	%100
53	SF1-TH-2	Z	-.001	-.001	0	%100
54	SF1-TH-3	Z	-.001	-.001	0	%100
55	SF2-TH-1	Z	-.003	-.003	0	%100
56	SF2-TH-2	Z	-.003	-.003	0	%100
57	SF2-TH-3	Z	-.003	-.003	0	%100
58	GSIP-1A	Z	-.003	-.003	0	%100
59	GSIP-1B	Z	-.003	-.003	0	%100
60	GSIP-2A	Z	0	0	0	%100
61	GSIP-2B	Z	0	0	0	%100
62	GSIP-3A	Z	-.003	-.003	0	%100
63	GSIP-3B	Z	-.003	-.003	0	%100
64	GSI-1A	Z	0	0	0	%100
65	GSI-1B	Z	-.003	-.003	0	%100
66	GSI-2A	Z	-.003	-.003	0	%100
67	GSI-2B	Z	-.002	-.002	0	%100
68	GSI-3A	Z	-.002	-.002	0	%100
69	GSI-3B	Z	0	0	0	%100
70	MP-1	Z	-.003	-.003	0	%100
71	MP-2	Z	-.003	-.003	0	%100
72	MP-3	Z	-.003	-.003	0	%100
73	MP-4	Z	-.003	-.003	0	%100
74	MP-5	Z	-.003	-.003	0	%100
75	MP-6	Z	-.003	-.003	0	%100
76	MP-7	Z	-.003	-.003	0	%100
77	MP-8	Z	-.003	-.003	0	%100
78	MP-9	Z	-.003	-.003	0	%100
79	SA-1	Z	-.003	-.003	0	%100
80	SA-1B	Z	-.003	-.003	0	%100
81	SA-2	Z	0	0	0	%100
82	SA-2B	Z	0	0	0	%100
83	SA-3	Z	-.004	-.004	0	%100
84	SA-3B	Z	-.004	-.004	0	%100
85	K1	Z	-.004	-.004	0	%100
86	K2	Z	-.004	-.004	0	%100
87	K3	Z	-.004	-.004	0	%100
88	K4	Z	-.004	-.004	0	%100
89	K5	Z	-.004	-.004	0	%100
90	K6	Z	-.004	-.004	0	%100



Company : Tower Engineering Professionals
 Designer : GHM
 Job Number : TEP No. 83248.504882
 Model Name : CCI BU No 828915

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	.001	.001	0	%100
2	CP-2	X	.005	.005	0	%100
3	CP-3	X	.004	.004	0	%100
4	FFTH-1	X	.002	.002	0	%100
5	FFTH-2	X	.002	.002	0	%100
6	FFTH-3	X	.002	.002	0	%100
7	SF1-TH-1	X	.000504	.000504	0	%100
8	SF1-TH-2	X	.000504	.000504	0	%100
9	SF1-TH-3	X	.000504	.000504	0	%100
10	SF2-TH-1	X	.002	.002	0	%100
11	SF2-TH-2	X	.002	.002	0	%100
12	SF2-TH-3	X	.002	.002	0	%100
13	GSIP-1A	X	.003	.003	0	%100
14	GSIP-1B	X	.003	.003	0	%100
15	GSIP-2A	X	.000787	.000787	0	%100
16	GSIP-2B	X	.000787	.000787	0	%100
17	GSIP-3A	X	.002	.002	0	%100
18	GSIP-3B	X	.002	.002	0	%100
19	GSI-1A	X	.000652	.000652	0	%100
20	GSI-1B	X	.001	.001	0	%100
21	GSI-2A	X	.001	.001	0	%100
22	GSI-2B	X	.002	.002	0	%100
23	GSI-3A	X	.002	.002	0	%100
24	GSI-3B	X	.000652	.000652	0	%100
25	MP-1	X	.002	.002	0	%100
26	MP-2	X	.002	.002	0	%100
27	MP-3	X	.002	.002	0	%100
28	MP-4	X	.002	.002	0	%100
29	MP-5	X	.002	.002	0	%100
30	MP-6	X	.002	.002	0	%100
31	MP-7	X	.002	.002	0	%100
32	MP-8	X	.002	.002	0	%100
33	MP-9	X	.002	.002	0	%100
34	SA-1	X	.003	.003	0	%100
35	SA-1B	X	.003	.003	0	%100
36	SA-2	X	.000922	.000922	0	%100
37	SA-2B	X	.000922	.000922	0	%100
38	SA-3	X	.002	.002	0	%100
39	SA-3B	X	.002	.002	0	%100
40	K1	X	.003	.003	0	%100
41	K2	X	.003	.003	0	%100
42	K3	X	.003	.003	0	%100
43	K4	X	.003	.003	0	%100
44	K5	X	.003	.003	0	%100
45	K6	X	.003	.003	0	%100
46	CP-1	Z	-.001	-.001	0	%100
47	CP-2	Z	-.005	-.005	0	%100
48	CP-3	Z	-.003	-.003	0	%100
49	FFTH-1	Z	-.001	-.001	0	%100
50	FFTH-2	Z	-.001	-.001	0	%100
51	FFTH-3	Z	-.001	-.001	0	%100
52	SF1-TH-1	Z	-.000555	-.000555	0	%100
53	SF1-TH-2	Z	-.000555	-.000555	0	%100
54	SF1-TH-3	Z	-.000555	-.000555	0	%100
55	SF2-TH-1	Z	-.002	-.002	0	%100
56	SF2-TH-2	Z	-.002	-.002	0	%100
57	SF2-TH-3	Z	-.002	-.002	0	%100



Company : Tower Engineering Professionals
 Designer : GHM
 Job Number : TEP No. 83248.504882
 Model Name : CCI BU No 828915

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
58	GSIP-1A	Z	-0.003	-0.003	0	%100
59	GSIP-1B	Z	-0.003	-0.003	0	%100
60	GSIP-2A	Z	-0.000718	-0.000718	0	%100
61	GSIP-2B	Z	-0.000718	-0.000718	0	%100
62	GSIP-3A	Z	-0.002	-0.002	0	%100
63	GSIP-3B	Z	-0.002	-0.002	0	%100
64	GSI-1A	Z	-0.000591	-0.000591	0	%100
65	GSI-1B	Z	-0.002	-0.002	0	%100
66	GSI-2A	Z	-0.002	-0.002	0	%100
67	GSI-2B	Z	-0.002	-0.002	0	%100
68	GSI-3A	Z	-0.002	-0.002	0	%100
69	GSI-3B	Z	-0.000591	-0.000591	0	%100
70	MP-1	Z	-0.002	-0.002	0	%100
71	MP-2	Z	-0.002	-0.002	0	%100
72	MP-3	Z	-0.002	-0.002	0	%100
73	MP-4	Z	-0.002	-0.002	0	%100
74	MP-5	Z	-0.002	-0.002	0	%100
75	MP-6	Z	-0.002	-0.002	0	%100
76	MP-7	Z	-0.002	-0.002	0	%100
77	MP-8	Z	-0.002	-0.002	0	%100
78	MP-9	Z	-0.002	-0.002	0	%100
79	SA-1	Z	-0.003	-0.003	0	%100
80	SA-1B	Z	-0.003	-0.003	0	%100
81	SA-2	Z	-0.00083	-0.00083	0	%100
82	SA-2B	Z	-0.00083	-0.00083	0	%100
83	SA-3	Z	-0.003	-0.003	0	%100
84	SA-3B	Z	-0.003	-0.003	0	%100
85	K1	Z	-0.003	-0.003	0	%100
86	K2	Z	-0.003	-0.003	0	%100
87	K3	Z	-0.003	-0.003	0	%100
88	K4	Z	-0.003	-0.003	0	%100
89	K5	Z	-0.003	-0.003	0	%100
90	K6	Z	-0.003	-0.003	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	0	0	0	%100
2	CP-2	X	0.005	0.005	0	%100
3	CP-3	X	0.005	0.005	0	%100
4	FFTH-1	X	0.002	0.002	0	%100
5	FFTH-2	X	0.002	0.002	0	%100
6	FFTH-3	X	0.002	0.002	0	%100
7	SF1-TH-1	X	0	0	0	%100
8	SF1-TH-2	X	0	0	0	%100
9	SF1-TH-3	X	0	0	0	%100
10	SF2-TH-1	X	0.002	0.002	0	%100
11	SF2-TH-2	X	0.002	0.002	0	%100
12	SF2-TH-3	X	0.002	0.002	0	%100
13	GSIP-1A	X	0.004	0.004	0	%100
14	GSIP-1B	X	0.004	0.004	0	%100
15	GSIP-2A	X	0.002	0.002	0	%100
16	GSIP-2B	X	0.002	0.002	0	%100
17	GSIP-3A	X	0.002	0.002	0	%100
18	GSIP-3B	X	0.002	0.002	0	%100
19	GSI-1A	X	0.002	0.002	0	%100
20	GSI-1B	X	0.001	0.001	0	%100



Company : Tower Engineering Professionals
 Designer : GHM
 Job Number : TEP No. 83248.504882
 Model Name : CCI BU No 828915

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
21	GSI-2A	X	0.001	0.001	0	%100
22	GSI-2B	X	0.003	0.003	0	%100
23	GSI-3A	X	0.003	0.003	0	%100
24	GSI-3B	X	0.002	0.002	0	%100
25	MP-1	X	0.002	0.002	0	%100
26	MP-2	X	0.002	0.002	0	%100
27	MP-3	X	0.002	0.002	0	%100
28	MP-4	X	0.002	0.002	0	%100
29	MP-5	X	0.002	0.002	0	%100
30	MP-6	X	0.002	0.002	0	%100
31	MP-7	X	0.002	0.002	0	%100
32	MP-8	X	0.002	0.002	0	%100
33	MP-9	X	0.002	0.002	0	%100
34	SA-1	X	0.004	0.004	0	%100
35	SA-1B	X	0.004	0.004	0	%100
36	SA-2	X	0.002	0.002	0	%100
37	SA-2B	X	0.002	0.002	0	%100
38	SA-3	X	0.002	0.002	0	%100
39	SA-3B	X	0.002	0.002	0	%100
40	K1	X	0.004	0.004	0	%100
41	K2	X	0.004	0.004	0	%100
42	K3	X	0.004	0.004	0	%100
43	K4	X	0.004	0.004	0	%100
44	K5	X	0.004	0.004	0	%100
45	K6	X	0.004	0.004	0	%100
46	CP-1	Z	0	0	0	%100
47	CP-2	Z	-0.003	-0.003	0	%100
48	CP-3	Z	-0.003	-0.003	0	%100
49	FFTH-1	Z	-0.001	-0.001	0	%100
50	FFTH-2	Z	-0.001	-0.001	0	%100
51	FFTH-3	Z	-0.001	-0.001	0	%100
52	SF1-TH-1	Z	0	0	0	%100
53	SF1-TH-2	Z	0	0	0	%100
54	SF1-TH-3	Z	0	0	0	%100
55	SF2-TH-1	Z	-0.001	-0.001	0	%100
56	SF2-TH-2	Z	-0.001	-0.001	0	%100
57	SF2-TH-3	Z	-0.001	-0.001	0	%100
58	GSIP-1A	Z	-0.002	-0.002	0	%100
59	GSIP-1B	Z	-0.002	-0.002	0	%100
60	GSIP-2A	Z	-0.000981	-0.000981	0	%100
61	GSIP-2B	Z	-0.000981	-0.000981	0	%100
62	GSIP-3A	Z	-0.001	-0.001	0	%100
63	GSIP-3B	Z	-0.001	-0.001	0	%100
64	GSI-1A	Z	-0.000808	-0.000808	0	%100
65	GSI-1B	Z	-0.000916	-0.000916	0	%100
66	GSI-2A	Z	-0.000916	-0.000916	0	%100
67	GSI-2B	Z	-0.002	-0.002	0	%100
68	GSI-3A	Z	-0.002	-0.002	0	%100
69	GSI-3B	Z	-0.000808	-0.000808	0	%100
70	MP-1	Z	-0.002	-0.002	0	%100
71	MP-2	Z	-0.002	-0.002	0	%100
72	MP-3	Z	-0.002	-0.002	0	%100
73	MP-4	Z	-0.002	-0.002	0	%100
74	MP-5	Z	-0.002	-0.002	0	%100
75	MP-6	Z	-0.002	-0.002	0	%100
76	MP-7	Z	-0.002	-0.002	0	%100
77	MP-8	Z	-0.002	-0.002	0	%100



Company : Tower Engineering Professionals
 Designer : GHM
 Job Number : TEP No. 83248.504882
 Model Name : CCI BU No 828915

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
78	MP-9	Z	-.002	-.002	0	%100
79	SA-1	Z	-.002	-.002	0	%100
80	SA-1B	Z	-.002	-.002	0	%100
81	SA-2	Z	-.001	-.001	0	%100
82	SA-2B	Z	-.001	-.001	0	%100
83	SA-3	Z	-.001	-.001	0	%100
84	SA-3B	Z	-.001	-.001	0	%100
85	K1	Z	-.002	-.002	0	%100
86	K2	Z	-.002	-.002	0	%100
87	K3	Z	-.002	-.002	0	%100
88	K4	Z	-.002	-.002	0	%100
89	K5	Z	-.002	-.002	0	%100
90	K6	Z	-.002	-.002	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	.007	.007	0	%100
2	CP-2	X	.007	.007	0	%100
3	CP-3	X	.007	.007	0	%100
4	FFTH-1	X	.003	.003	0	%100
5	FFTH-2	X	.003	.003	0	%100
6	FFTH-3	X	.003	.003	0	%100
7	SF1-TH-1	X	.003	.003	0	%100
8	SF1-TH-2	X	.003	.003	0	%100
9	SF1-TH-3	X	.003	.003	0	%100
10	SF2-TH-1	X	.003	.003	0	%100
11	SF2-TH-2	X	.003	.003	0	%100
12	SF2-TH-3	X	.003	.003	0	%100
13	GSIP-1A	X	.004	.004	0	%100
14	GSIP-1B	X	.004	.004	0	%100
15	GSIP-2A	X	.004	.004	0	%100
16	GSIP-2B	X	.004	.004	0	%100
17	GSIP-3A	X	.004	.004	0	%100
18	GSIP-3B	X	.004	.004	0	%100
19	GSI-1A	X	.004	.004	0	%100
20	GSI-1B	X	.003	.003	0	%100
21	GSI-2A	X	.003	.003	0	%100
22	GSI-2B	X	.004	.004	0	%100
23	GSI-3A	X	.004	.004	0	%100
24	GSI-3B	X	.004	.004	0	%100
25	MP-1	X	.003	.003	0	%100
26	MP-2	X	.003	.003	0	%100
27	MP-3	X	.003	.003	0	%100
28	MP-4	X	.003	.003	0	%100
29	MP-5	X	.003	.003	0	%100
30	MP-6	X	.003	.003	0	%100
31	MP-7	X	.003	.003	0	%100
32	MP-8	X	.003	.003	0	%100
33	MP-9	X	.003	.003	0	%100
34	SA-1	X	.005	.005	0	%100
35	SA-1B	X	.005	.005	0	%100
36	SA-2	X	.005	.005	0	%100
37	SA-2B	X	.005	.005	0	%100
38	SA-3	X	.004	.004	0	%100
39	SA-3B	X	.004	.004	0	%100
40	K1	X	.004	.004	0	%100



Company : Tower Engineering Professionals
 Designer : GHM
 Job Number : TEP No. 83248.504882
 Model Name : CCI BU No 828915

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
41	K2	X	.004	.004	0	%100
42	K3	X	.004	.004	0	%100
43	K4	X	.004	.004	0	%100
44	K5	X	.004	.004	0	%100
45	K6	X	.004	.004	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	.005	.005	0	%100
2	CP-2	X	0	0	0	%100
3	CP-3	X	.005	.005	0	%100
4	FFTH-1	X	.002	.002	0	%100
5	FFTH-2	X	.002	.002	0	%100
6	FFTH-3	X	.002	.002	0	%100
7	SF1-TH-1	X	.002	.002	0	%100
8	SF1-TH-2	X	.002	.002	0	%100
9	SF1-TH-3	X	.002	.002	0	%100
10	SF2-TH-1	X	0	0	0	%100
11	SF2-TH-2	X	0	0	0	%100
12	SF2-TH-3	X	0	0	0	%100
13	GSIP-1A	X	.002	.002	0	%100
14	GSIP-1B	X	.002	.002	0	%100
15	GSIP-2A	X	.004	.004	0	%100
16	GSIP-2B	X	.004	.004	0	%100
17	GSIP-3A	X	.002	.002	0	%100
18	GSIP-3B	X	.002	.002	0	%100
19	GSI-1A	X	.003	.003	0	%100
20	GSI-1B	X	.001	.001	0	%100
21	GSI-2A	X	.001	.001	0	%100
22	GSI-2B	X	.002	.002	0	%100
23	GSI-3A	X	.002	.002	0	%100
24	GSI-3B	X	.003	.003	0	%100
25	MP-1	X	.002	.002	0	%100
26	MP-2	X	.002	.002	0	%100
27	MP-3	X	.002	.002	0	%100
28	MP-4	X	.002	.002	0	%100
29	MP-5	X	.002	.002	0	%100
30	MP-6	X	.002	.002	0	%100
31	MP-7	X	.002	.002	0	%100
32	MP-8	X	.002	.002	0	%100
33	MP-9	X	.002	.002	0	%100
34	SA-1	X	.002	.002	0	%100
35	SA-1B	X	.002	.002	0	%100
36	SA-2	X	.004	.004	0	%100
37	SA-2B	X	.004	.004	0	%100
38	SA-3	X	.002	.002	0	%100
39	SA-3B	X	.002	.002	0	%100
40	K1	X	.004	.004	0	%100
41	K2	X	.004	.004	0	%100
42	K3	X	.004	.004	0	%100
43	K4	X	.004	.004	0	%100
44	K5	X	.004	.004	0	%100
45	K6	X	.004	.004	0	%100
46	CP-1	Z	.003	.003	0	%100
47	CP-2	Z	0	0	0	%100
48	CP-3	Z	.003	.003	0	%100



Company : Tower Engineering Professionals
 Designer : GHM
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Member Distributed Loads (BLC 28 : 210 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
49	FFTH-1	Z	.001	.001	0	%100
50	FFTH-2	Z	.001	.001	0	%100
51	FFTH-3	Z	.001	.001	0	%100
52	SF1-TH-1	Z	.001	.001	0	%100
53	SF1-TH-2	Z	.001	.001	0	%100
54	SF1-TH-3	Z	.001	.001	0	%100
55	SF2-TH-1	Z	0	0	0	%100
56	SF2-TH-2	Z	0	0	0	%100
57	SF2-TH-3	Z	0	0	0	%100
58	GSIP-1A	Z	.000981	.000981	0	%100
59	GSIP-1B	Z	.000981	.000981	0	%100
60	GSIP-2A	Z	.002	.002	0	%100
61	GSIP-2B	Z	.002	.002	0	%100
62	GSIP-3A	Z	.001	.001	0	%100
63	GSIP-3B	Z	.001	.001	0	%100
64	GSI-1A	Z	.002	.002	0	%100
65	GSI-1B	Z	.000916	.000916	0	%100
66	GSI-2A	Z	.000916	.000916	0	%100
67	GSI-2B	Z	.000808	.000808	0	%100
68	GSI-3A	Z	.000808	.000808	0	%100
69	GSI-3B	Z	.002	.002	0	%100
70	MP-1	Z	.002	.002	0	%100
71	MP-2	Z	.002	.002	0	%100
72	MP-3	Z	.002	.002	0	%100
73	MP-4	Z	.002	.002	0	%100
74	MP-5	Z	.002	.002	0	%100
75	MP-6	Z	.002	.002	0	%100
76	MP-7	Z	.002	.002	0	%100
77	MP-8	Z	.002	.002	0	%100
78	MP-9	Z	.002	.002	0	%100
79	SA-1	Z	.001	.001	0	%100
80	SA-1B	Z	.001	.001	0	%100
81	SA-2	Z	.002	.002	0	%100
82	SA-2B	Z	.002	.002	0	%100
83	SA-3	Z	.001	.001	0	%100
84	SA-3B	Z	.001	.001	0	%100
85	K1	Z	.002	.002	0	%100
86	K2	Z	.002	.002	0	%100
87	K3	Z	.002	.002	0	%100
88	K4	Z	.002	.002	0	%100
89	K5	Z	.002	.002	0	%100
90	K6	Z	.002	.002	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	.005	.005	0	%100
2	CP-2	X	.001	.001	0	%100
3	CP-3	X	.004	.004	0	%100
4	FFTH-1	X	.002	.002	0	%100
5	FFTH-2	X	.002	.002	0	%100
6	FFTH-3	X	.002	.002	0	%100
7	SF1-TH-1	X	.002	.002	0	%100
8	SF1-TH-2	X	.002	.002	0	%100
9	SF1-TH-3	X	.002	.002	0	%100
10	SF2-TH-1	X	.000504	.000504	0	%100
11	SF2-TH-2	X	.000504	.000504	0	%100



Company : Tower Engineering Professionals
 Designer : GHM
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Member Distributed Loads (BLC 29 : 225 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
12	SF2-TH-3	X	.000504	.000504	0	%100
13	GSIP-1A	X	.000787	.000787	0	%100
14	GSIP-1B	X	.000787	.000787	0	%100
15	GSIP-2A	X	.003	.003	0	%100
16	GSIP-2B	X	.003	.003	0	%100
17	GSIP-3A	X	.002	.002	0	%100
18	GSIP-3B	X	.002	.002	0	%100
19	GSI-1A	X	.002	.002	0	%100
20	GSI-1B	X	.001	.001	0	%100
21	GSI-2A	X	.001	.001	0	%100
22	GSI-2B	X	.000652	.000652	0	%100
23	GSI-3A	X	.000652	.000652	0	%100
24	GSI-3B	X	.002	.002	0	%100
25	MP-1	X	.002	.002	0	%100
26	MP-2	X	.002	.002	0	%100
27	MP-3	X	.002	.002	0	%100
28	MP-4	X	.002	.002	0	%100
29	MP-5	X	.002	.002	0	%100
30	MP-6	X	.002	.002	0	%100
31	MP-7	X	.002	.002	0	%100
32	MP-8	X	.002	.002	0	%100
33	MP-9	X	.002	.002	0	%100
34	SA-1	X	.000922	.000922	0	%100
35	SA-1B	X	.000922	.000922	0	%100
36	SA-2	X	.003	.003	0	%100
37	SA-2B	X	.003	.003	0	%100
38	SA-3	X	.002	.002	0	%100
39	SA-3B	X	.002	.002	0	%100
40	K1	X	.003	.003	0	%100
41	K2	X	.003	.003	0	%100
42	K3	X	.003	.003	0	%100
43	K4	X	.003	.003	0	%100
44	K5	X	.003	.003	0	%100
45	K6	X	.003	.003	0	%100
46	CP-1	Z	.005	.005	0	%100
47	CP-2	Z	.001	.001	0	%100
48	CP-3	Z	.003	.003	0	%100
49	FFTH-1	Z	.001	.001	0	%100
50	FFTH-2	Z	.001	.001	0	%100
51	FFTH-3	Z	.001	.001	0	%100
52	SF1-TH-1	Z	.002	.002	0	%100
53	SF1-TH-2	Z	.002	.002	0	%100
54	SF1-TH-3	Z	.002	.002	0	%100
55	SF2-TH-1	Z	.000555	.000555	0	%100
56	SF2-TH-2	Z	.000555	.000555	0	%100
57	SF2-TH-3	Z	.000555	.000555	0	%100
58	GSIP-1A	Z	.000718	.000718	0	%100
59	GSIP-1B	Z	.000718	.000718	0	%100
60	GSIP-2A	Z	.003	.003	0	%100
61	GSIP-2B	Z	.003	.003	0	%100
62	GSIP-3A	Z	.002	.002	0	%100
63	GSIP-3B	Z	.002	.002	0	%100
64	GSI-1A	Z	.002	.002	0	%100
65	GSI-1B	Z	.002	.002	0	%100
66	GSI-2A	Z	.002	.002	0	%100
67	GSI-2B	Z	.000591	.000591	0	%100
68	GSI-3A	Z	.000591	.000591	0	%100



Company : Tower Engineering Professionals
 Designer : GHM
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Member Distributed Loads (BLC 29 : 225 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
69	GSI-3B	Z	.002	.002	0	%100
70	MP-1	Z	.002	.002	0	%100
71	MP-2	Z	.002	.002	0	%100
72	MP-3	Z	.002	.002	0	%100
73	MP-4	Z	.002	.002	0	%100
74	MP-5	Z	.002	.002	0	%100
75	MP-6	Z	.002	.002	0	%100
76	MP-7	Z	.002	.002	0	%100
77	MP-8	Z	.002	.002	0	%100
78	MP-9	Z	.002	.002	0	%100
79	SA-1	Z	.00083	.00083	0	%100
80	SA-1B	Z	.00083	.00083	0	%100
81	SA-2	Z	.003	.003	0	%100
82	SA-2B	Z	.003	.003	0	%100
83	SA-3	Z	.003	.003	0	%100
84	SA-3B	Z	.003	.003	0	%100
85	K1	Z	.003	.003	0	%100
86	K2	Z	.003	.003	0	%100
87	K3	Z	.003	.003	0	%100
88	K4	Z	.003	.003	0	%100
89	K5	Z	.003	.003	0	%100
90	K6	Z	.003	.003	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	.004	.004	0	%100
2	CP-2	X	.002	.002	0	%100
3	CP-3	X	.002	.002	0	%100
4	FFTH-1	X	.000783	.000783	0	%100
5	FFTH-2	X	.000783	.000783	0	%100
6	FFTH-3	X	.000783	.000783	0	%100
7	SF1-TH-1	X	.001	.001	0	%100
8	SF1-TH-2	X	.001	.001	0	%100
9	SF1-TH-3	X	.001	.001	0	%100
10	SF2-TH-1	X	.000689	.000689	0	%100
11	SF2-TH-2	X	.000689	.000689	0	%100
12	SF2-TH-3	X	.000689	.000689	0	%100
13	GSIP-1A	X	0	0	0	%100
14	GSIP-1B	X	0	0	0	%100
15	GSIP-2A	X	.002	.002	0	%100
16	GSIP-2B	X	.002	.002	0	%100
17	GSIP-3A	X	.002	.002	0	%100
18	GSIP-3B	X	.002	.002	0	%100
19	GSI-1A	X	.002	.002	0	%100
20	GSI-1B	X	.001	.001	0	%100
21	GSI-2A	X	.001	.001	0	%100
22	GSI-2B	X	0	0	0	%100
23	GSI-3A	X	0	0	0	%100
24	GSI-3B	X	.002	.002	0	%100
25	MP-1	X	.001	.001	0	%100
26	MP-2	X	.001	.001	0	%100
27	MP-3	X	.001	.001	0	%100
28	MP-4	X	.001	.001	0	%100
29	MP-5	X	.001	.001	0	%100
30	MP-6	X	.001	.001	0	%100
31	MP-7	X	.001	.001	0	%100



Company : Tower Engineering Professionals
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Member Distributed Loads (BLC 30 : 240 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
32	MP-8	X	.001	.001	0	%100
33	MP-9	X	.001	.001	0	%100
34	SA-1	X	0	0	0	%100
35	SA-1B	X	0	0	0	%100
36	SA-2	X	.002	.002	0	%100
37	SA-2B	X	.002	.002	0	%100
38	SA-3	X	.002	.002	0	%100
39	SA-3B	X	.002	.002	0	%100
40	K1	X	.002	.002	0	%100
41	K2	X	.002	.002	0	%100
42	K3	X	.002	.002	0	%100
43	K4	X	.002	.002	0	%100
44	K5	X	.002	.002	0	%100
45	K6	X	.002	.002	0	%100
46	CP-1	Z	.006	.006	0	%100
47	CP-2	Z	.003	.003	0	%100
48	CP-3	Z	.003	.003	0	%100
49	FFTH-1	Z	.001	.001	0	%100
50	FFTH-2	Z	.001	.001	0	%100
51	FFTH-3	Z	.001	.001	0	%100
52	SF1-TH-1	Z	.003	.003	0	%100
53	SF1-TH-2	Z	.003	.003	0	%100
54	SF1-TH-3	Z	.003	.003	0	%100
55	SF2-TH-1	Z	.001	.001	0	%100
56	SF2-TH-2	Z	.001	.001	0	%100
57	SF2-TH-3	Z	.001	.001	0	%100
58	GSIP-1A	Z	0	0	0	%100
59	GSIP-1B	Z	0	0	0	%100
60	GSIP-2A	Z	.003	.003	0	%100
61	GSIP-2B	Z	.003	.003	0	%100
62	GSIP-3A	Z	.003	.003	0	%100
63	GSIP-3B	Z	.003	.003	0	%100
64	GSI-1A	Z	.002	.002	0	%100
65	GSI-1B	Z	.003	.003	0	%100
66	GSI-2A	Z	.003	.003	0	%100
67	GSI-2B	Z	0	0	0	%100
68	GSI-3A	Z	0	0	0	%100
69	GSI-3B	Z	.002	.002	0	%100
70	MP-1	Z	.003	.003	0	%100
71	MP-2	Z	.003	.003	0	%100
72	MP-3	Z	.003	.003	0	%100
73	MP-4	Z	.003	.003	0	%100
74	MP-5	Z	.003	.003	0	%100
75	MP-6	Z	.003	.003	0	%100
76	MP-7	Z	.003	.003	0	%100
77	MP-8	Z	.003	.003	0	%100
78	MP-9	Z	.003	.003	0	%100
79	SA-1	Z	0	0	0	%100
80	SA-1B	Z	0	0	0	%100
81	SA-2	Z	.003	.003	0	%100
82	SA-2B	Z	.003	.003	0	%100
83	SA-3	Z	.004	.004	0	%100
84	SA-3B	Z	.004	.004	0	%100
85	K1	Z	.004	.004	0	%100
86	K2	Z	.004	.004	0	%100
87	K3	Z	.004	.004	0	%100
88	K4	Z	.004	.004	0	%100



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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
89	K5	Z	.004	.004	0	%100
90	K6	Z	.004	.004	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	Z	.006	.006	0	%100
2	CP-2	Z	.006	.006	0	%100
3	CP-3	Z	0	0	0	%100
4	FFTH-1	Z	0	0	0	%100
5	FFTH-2	Z	0	0	0	%100
6	FFTH-3	Z	0	0	0	%100
7	SF1-TH-1	Z	.003	.003	0	%100
8	SF1-TH-2	Z	.003	.003	0	%100
9	SF1-TH-3	Z	.003	.003	0	%100
10	SF2-TH-1	Z	.003	.003	0	%100
11	SF2-TH-2	Z	.003	.003	0	%100
12	SF2-TH-3	Z	.003	.003	0	%100
13	GSIP-1A	Z	.002	.002	0	%100
14	GSIP-1B	Z	.002	.002	0	%100
15	GSIP-2A	Z	.002	.002	0	%100
16	GSIP-2B	Z	.002	.002	0	%100
17	GSIP-3A	Z	.004	.004	0	%100
18	GSIP-3B	Z	.004	.004	0	%100
19	GSI-1A	Z	.002	.002	0	%100
20	GSI-1B	Z	.004	.004	0	%100
21	GSI-2A	Z	.004	.004	0	%100
22	GSI-2B	Z	.002	.002	0	%100
23	GSI-3A	Z	.002	.002	0	%100
24	GSI-3B	Z	.002	.002	0	%100
25	MP-1	Z	.003	.003	0	%100
26	MP-2	Z	.003	.003	0	%100
27	MP-3	Z	.003	.003	0	%100
28	MP-4	Z	.003	.003	0	%100
29	MP-5	Z	.003	.003	0	%100
30	MP-6	Z	.003	.003	0	%100
31	MP-7	Z	.003	.003	0	%100
32	MP-8	Z	.003	.003	0	%100
33	MP-9	Z	.003	.003	0	%100
34	SA-1	Z	.002	.002	0	%100
35	SA-1B	Z	.002	.002	0	%100
36	SA-2	Z	.002	.002	0	%100
37	SA-2B	Z	.002	.002	0	%100
38	SA-3	Z	.005	.005	0	%100
39	SA-3B	Z	.005	.005	0	%100
40	K1	Z	.005	.005	0	%100
41	K2	Z	.005	.005	0	%100
42	K3	Z	.005	.005	0	%100
43	K4	Z	.005	.005	0	%100
44	K5	Z	.005	.005	0	%100
45	K6	Z	.005	.005	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	-.002	-.002	0	%100
2	CP-2	X	-.004	-.004	0	%100
3	CP-3	X	-.002	-.002	0	%100



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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
4	FFTH-1	X	-.000783	-.000783	0	%100
5	FFTH-2	X	-.000783	-.000783	0	%100
6	FFTH-3	X	-.000783	-.000783	0	%100
7	SF1-TH-1	X	-.000689	-.000689	0	%100
8	SF1-TH-2	X	-.000689	-.000689	0	%100
9	SF1-TH-3	X	-.000689	-.000689	0	%100
10	SF2-TH-1	X	-.001	-.001	0	%100
11	SF2-TH-2	X	-.001	-.001	0	%100
12	SF2-TH-3	X	-.001	-.001	0	%100
13	GSIP-1A	X	-.002	-.002	0	%100
14	GSIP-1B	X	-.002	-.002	0	%100
15	GSIP-2A	X	0	0	0	%100
16	GSIP-2B	X	0	0	0	%100
17	GSIP-3A	X	-.002	-.002	0	%100
18	GSIP-3B	X	-.002	-.002	0	%100
19	GSI-1A	X	0	0	0	%100
20	GSI-1B	X	-.001	-.001	0	%100
21	GSI-2A	X	-.001	-.001	0	%100
22	GSI-2B	X	-.002	-.002	0	%100
23	GSI-3A	X	-.002	-.002	0	%100
24	GSI-3B	X	0	0	0	%100
25	MP-1	X	-.001	-.001	0	%100
26	MP-2	X	-.001	-.001	0	%100
27	MP-3	X	-.001	-.001	0	%100
28	MP-4	X	-.001	-.001	0	%100
29	MP-5	X	-.001	-.001	0	%100
30	MP-6	X	-.001	-.001	0	%100
31	MP-7	X	-.001	-.001	0	%100
32	MP-8	X	-.001	-.001	0	%100
33	MP-9	X	-.001	-.001	0	%100
34	SA-1	X	-.002	-.002	0	%100
35	SA-1B	X	-.002	-.002	0	%100
36	SA-2	X	0	0	0	%100
37	SA-2B	X	0	0	0	%100
38	SA-3	X	-.002	-.002	0	%100
39	SA-3B	X	-.002	-.002	0	%100
40	K1	X	-.002	-.002	0	%100
41	K2	X	-.002	-.002	0	%100
42	K3	X	-.002	-.002	0	%100
43	K4	X	-.002	-.002	0	%100
44	K5	X	-.002	-.002	0	%100
45	K6	X	-.002	-.002	0	%100
46	CP-1	Z	.003	.003	0	%100
47	CP-2	Z	.006	.006	0	%100
48	CP-3	Z	.003	.003	0	%100
49	FFTH-1	Z	.001	.001	0	%100
50	FFTH-2	Z	.001	.001	0	%100
51	FFTH-3	Z	.001	.001	0	%100
52	SF1-TH-1	Z	.001	.001	0	%100
53	SF1-TH-2	Z	.001	.001	0	%100
54	SF1-TH-3	Z	.001	.001	0	%100
55	SF2-TH-1	Z	.003	.003	0	%100
56	SF2-TH-2	Z	.003	.003	0	%100
57	SF2-TH-3	Z	.003	.003	0	%100
58	GSIP-1A	Z	.003	.003	0	%100
59	GSIP-1B	Z	.003	.003	0	%100
60	GSIP-2A	Z	0	0	0	%100



Company : Tower Engineering Professionals
 Designer : GHM
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Member Distributed Loads (BLC 32 : 300 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
61	GSIP-2B	Z	0	0	%100	
62	GSIP-3A	Z	.003	.003	0	%100
63	GSIP-3B	Z	.003	.003	0	%100
64	GSI-1A	Z	0	0	0	%100
65	GSI-1B	Z	.003	.003	0	%100
66	GSI-2A	Z	.003	.003	0	%100
67	GSI-2B	Z	.002	.002	0	%100
68	GSI-3A	Z	.002	.002	0	%100
69	GSI-3B	Z	0	0	0	%100
70	MP-1	Z	.003	.003	0	%100
71	MP-2	Z	.003	.003	0	%100
72	MP-3	Z	.003	.003	0	%100
73	MP-4	Z	.003	.003	0	%100
74	MP-5	Z	.003	.003	0	%100
75	MP-6	Z	.003	.003	0	%100
76	MP-7	Z	.003	.003	0	%100
77	MP-8	Z	.003	.003	0	%100
78	MP-9	Z	.003	.003	0	%100
79	SA-1	Z	.003	.003	0	%100
80	SA-1B	Z	.003	.003	0	%100
81	SA-2	Z	0	0	0	%100
82	SA-2B	Z	0	0	0	%100
83	SA-3	Z	.004	.004	0	%100
84	SA-3B	Z	.004	.004	0	%100
85	K1	Z	.004	.004	0	%100
86	K2	Z	.004	.004	0	%100
87	K3	Z	.004	.004	0	%100
88	K4	Z	.004	.004	0	%100
89	K5	Z	.004	.004	0	%100
90	K6	Z	.004	.004	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	-.001	-.001	0	%100
2	CP-2	X	-.005	-.005	0	%100
3	CP-3	X	-.004	-.004	0	%100
4	FFTH-1	X	-.002	-.002	0	%100
5	FFTH-2	X	-.002	-.002	0	%100
6	FFTH-3	X	-.002	-.002	0	%100
7	SF1-TH-1	X	-.000504	-.000504	0	%100
8	SF1-TH-2	X	-.000504	-.000504	0	%100
9	SF1-TH-3	X	-.000504	-.000504	0	%100
10	SF2-TH-1	X	-.002	-.002	0	%100
11	SF2-TH-2	X	-.002	-.002	0	%100
12	SF2-TH-3	X	-.002	-.002	0	%100
13	GSIP-1A	X	-.003	-.003	0	%100
14	GSIP-1B	X	-.003	-.003	0	%100
15	GSIP-2A	X	-.000787	-.000787	0	%100
16	GSIP-2B	X	-.000787	-.000787	0	%100
17	GSIP-3A	X	-.002	-.002	0	%100
18	GSIP-3B	X	-.002	-.002	0	%100
19	GSI-1A	X	-.000652	-.000652	0	%100
20	GSI-1B	X	-.001	-.001	0	%100
21	GSI-2A	X	-.001	-.001	0	%100
22	GSI-2B	X	-.002	-.002	0	%100
23	GSI-3A	X	-.002	-.002	0	%100



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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
24	GSI-3B	X	-.000652	-.000652	0	%100
25	MP-1	X	-.002	-.002	0	%100
26	MP-2	X	-.002	-.002	0	%100
27	MP-3	X	-.002	-.002	0	%100
28	MP-4	X	-.002	-.002	0	%100
29	MP-5	X	-.002	-.002	0	%100
30	MP-6	X	-.002	-.002	0	%100
31	MP-7	X	-.002	-.002	0	%100
32	MP-8	X	-.002	-.002	0	%100
33	MP-9	X	-.002	-.002	0	%100
34	SA-1	X	-.003	-.003	0	%100
35	SA-1B	X	-.003	-.003	0	%100
36	SA-2	X	-.000922	-.000922	0	%100
37	SA-2B	X	-.000922	-.000922	0	%100
38	SA-3	X	-.002	-.002	0	%100
39	SA-3B	X	-.002	-.002	0	%100
40	K1	X	-.003	-.003	0	%100
41	K2	X	-.003	-.003	0	%100
42	K3	X	-.003	-.003	0	%100
43	K4	X	-.003	-.003	0	%100
44	K5	X	-.003	-.003	0	%100
45	K6	X	-.003	-.003	0	%100
46	CP-1	Z	.001	.001	0	%100
47	CP-2	Z	.005	.005	0	%100
48	CP-3	Z	.003	.003	0	%100
49	FFTH-1	Z	.001	.001	0	%100
50	FFTH-2	Z	.001	.001	0	%100
51	FFTH-3	Z	.001	.001	0	%100
52	SF1-TH-1	Z	.000555	.000555	0	%100
53	SF1-TH-2	Z	.000555	.000555	0	%100
54	SF1-TH-3	Z	.000555	.000555	0	%100
55	SF2-TH-1	Z	.002	.002	0	%100
56	SF2-TH-2	Z	.002	.002	0	%100
57	SF2-TH-3	Z	.002	.002	0	%100
58	GSIP-1A	Z	.003	.003	0	%100
59	GSIP-1B	Z	.003	.003	0	%100
60	GSIP-2A	Z	.000718	.000718	0	%100
61	GSIP-2B	Z	.000718	.000718	0	%100
62	GSIP-3A	Z	.002	.002	0	%100
63	GSIP-3B	Z	.002	.002	0	%100
64	GSI-1A	Z	.000591	.000591	0	%100
65	GSI-1B	Z	.002	.002	0	%100
66	GSI-2A	Z	.002	.002	0	%100
67	GSI-2B	Z	.002	.002	0	%100
68	GSI-3A	Z	.002	.002	0	%100
69	GSI-3B	Z	.000591	.000591	0	%100
70	MP-1	Z	.002	.002	0	%100
71	MP-2	Z	.002	.002	0	%100
72	MP-3	Z	.002	.002	0	%100
73	MP-4	Z	.002	.002	0	%100
74	MP-5	Z	.002	.002	0	%100
75	MP-6	Z	.002	.002	0	%100
76	MP-7	Z	.002	.002	0	%100
77	MP-8	Z	.002	.002	0	%100
78	MP-9	Z	.002	.002	0	%100
79	SA-1	Z	.003	.003	0	%100
80	SA-1B	Z	.003	.003	0	%100



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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
81	SA-2	Z	.00083	.00083	0	%100
82	SA-2B	Z	.00083	.00083	0	%100
83	SA-3	Z	.003	.003	0	%100
84	SA-3B	Z	.003	.003	0	%100
85	K1	Z	.003	.003	0	%100
86	K2	Z	.003	.003	0	%100
87	K3	Z	.003	.003	0	%100
88	K4	Z	.003	.003	0	%100
89	K5	Z	.003	.003	0	%100
90	K6	Z	.003	.003	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	0	0	0	%100
2	CP-2	X	-.005	-.005	0	%100
3	CP-3	X	-.005	-.005	0	%100
4	FFTH-1	X	-.002	-.002	0	%100
5	FFTH-2	X	-.002	-.002	0	%100
6	FFTH-3	X	-.002	-.002	0	%100
7	SF1-TH-1	X	0	0	0	%100
8	SF1-TH-2	X	0	0	0	%100
9	SF1-TH-3	X	0	0	0	%100
10	SF2-TH-1	X	-.002	-.002	0	%100
11	SF2-TH-2	X	-.002	-.002	0	%100
12	SF2-TH-3	X	-.002	-.002	0	%100
13	GSIP-1A	X	-.004	-.004	0	%100
14	GSIP-1B	X	-.004	-.004	0	%100
15	GSIP-2A	X	-.002	-.002	0	%100
16	GSIP-2B	X	-.002	-.002	0	%100
17	GSIP-3A	X	-.002	-.002	0	%100
18	GSIP-3B	X	-.002	-.002	0	%100
19	GSI-1A	X	-.002	-.002	0	%100
20	GSI-1B	X	-.001	-.001	0	%100
21	GSI-2A	X	-.001	-.001	0	%100
22	GSI-2B	X	-.003	-.003	0	%100
23	GSI-3A	X	-.003	-.003	0	%100
24	GSI-3B	X	-.002	-.002	0	%100
25	MP-1	X	-.002	-.002	0	%100
26	MP-2	X	-.002	-.002	0	%100
27	MP-3	X	-.002	-.002	0	%100
28	MP-4	X	-.002	-.002	0	%100
29	MP-5	X	-.002	-.002	0	%100
30	MP-6	X	-.002	-.002	0	%100
31	MP-7	X	-.002	-.002	0	%100
32	MP-8	X	-.002	-.002	0	%100
33	MP-9	X	-.002	-.002	0	%100
34	SA-1	X	-.004	-.004	0	%100
35	SA-1B	X	-.004	-.004	0	%100
36	SA-2	X	-.002	-.002	0	%100
37	SA-2B	X	-.002	-.002	0	%100
38	SA-3	X	-.002	-.002	0	%100
39	SA-3B	X	-.002	-.002	0	%100
40	K1	X	-.004	-.004	0	%100
41	K2	X	-.004	-.004	0	%100
42	K3	X	-.004	-.004	0	%100
43	K4	X	-.004	-.004	0	%100



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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
44	K5	X	-.004	-.004	0	%100
45	K6	X	-.004	-.004	0	%100
46	CP-1	Z	0	0	0	%100
47	CP-2	Z	.003	.003	0	%100
48	CP-3	Z	.003	.003	0	%100
49	FFTH-1	Z	.001	.001	0	%100
50	FFTH-2	Z	.001	.001	0	%100
51	FFTH-3	Z	.001	.001	0	%100
52	SF1-TH-1	Z	0	0	0	%100
53	SF1-TH-2	Z	0	0	0	%100
54	SF1-TH-3	Z	0	0	0	%100
55	SF2-TH-1	Z	.001	.001	0	%100
56	SF2-TH-2	Z	.001	.001	0	%100
57	SF2-TH-3	Z	.001	.001	0	%100
58	GSIP-1A	Z	.002	.002	0	%100
59	GSIP-1B	Z	.002	.002	0	%100
60	GSIP-2A	Z	.000981	.000981	0	%100
61	GSIP-2B	Z	.000981	.000981	0	%100
62	GSIP-3A	Z	.001	.001	0	%100
63	GSIP-3B	Z	.001	.001	0	%100
64	GSI-1A	Z	.000808	.000808	0	%100
65	GSI-1B	Z	.000916	.000916	0	%100
66	GSI-2A	Z	.000916	.000916	0	%100
67	GSI-2B	Z	.002	.002	0	%100
68	GSI-3A	Z	.002	.002	0	%100
69	GSI-3B	Z	.000808	.000808	0	%100
70	MP-1	Z	.002	.002	0	%100
71	MP-2	Z	.002	.002	0	%100
72	MP-3	Z	.002	.002	0	%100
73	MP-4	Z	.002	.002	0	%100
74	MP-5	Z	.002	.002	0	%100
75	MP-6	Z	.002	.002	0	%100
76	MP-7	Z	.002	.002	0	%100
77	MP-8	Z	.002	.002	0	%100
78	MP-9	Z	.002	.002	0	%100
79	SA-1	Z	.002	.002	0	%100
80	SA-1B	Z	.002	.002	0	%100
81	SA-2	Z	.001	.001	0	%100
82	SA-2B	Z	.001	.001	0	%100
83	SA-3	Z	.001	.001	0	%100
84	SA-3B	Z	.001	.001	0	%100
85	K1	Z	.002	.002	0	%100
86	K2	Z	.002	.002	0	%100
87	K3	Z	.002	.002	0	%100
88	K4	Z	.002	.002	0	%100
89	K5	Z	.002	.002	0	%100
90	K6	Z	.002	.002	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	FFTH-3	Y	-.008	-.008	1.029	2.481
2	GSIP-1B	Y	-.001	-.007	0	1
3	GSIP-1B	Y	-.007	-.011	1	2
4	GSIP-1B	Y	-.011	-.015	2	3
5	GSI-1B	Y	-.024	-.024	.507	2.007
6	FFTH-2	Y	-.006	-.015	.615	1.432



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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
7	FFTH-2	Y	-0.15	-0.19	1.432	2.25
8	FFTH-2	Y	-0.19	-0.15	2.25	3.068
9	FFTH-2	Y	-0.15	-0.06	3.068	3.885
10	GSI-2A	Y	-0.24	-0.24	1.049	2.549
11	FFTH-1	Y	-0.08	-0.08	2.019	3.471
12	GSIP-2A	Y	-0.01	-0.07	0	1
13	GSIP-2A	Y	-0.07	-0.11	1	2
14	GSIP-2A	Y	-0.11	-0.15	2	3
15	SF1-TH-3	Y	-0.08	-0.08	1.029	2.481
16	GSIP-2B	Y	-0.01	-0.07	0	1
17	GSIP-2B	Y	-0.07	-0.11	1	2
18	GSIP-2B	Y	-0.11	-0.15	2	3
19	GSI-2B	Y	-0.24	-0.24	5.07	2.007
20	SF1-TH-2	Y	-0.06	-0.15	6.15	1.432
21	SF1-TH-2	Y	-0.15	-0.19	1.432	2.25
22	SF1-TH-2	Y	-0.19	-0.15	2.25	3.068
23	SF1-TH-2	Y	-0.15	-0.06	3.068	3.885
24	GSI-3A	Y	-0.24	-0.24	1.049	2.549
25	SF1-TH-1	Y	-0.08	-0.08	2.019	3.471
26	GSIP-3A	Y	-0.01	-0.07	0	1
27	GSIP-3A	Y	-0.07	-0.11	1	2
28	GSIP-3A	Y	-0.11	-0.15	2	3
29	SF2-TH-3	Y	-0.08	-0.08	1.029	2.481
30	GSIP-3B	Y	-0.01	-0.07	0	1
31	GSIP-3B	Y	-0.07	-0.11	1	2
32	GSIP-3B	Y	-0.11	-0.15	2	3
33	GSI-3B	Y	-0.24	-0.24	5.07	2.007
34	SF2-TH-2	Y	-0.06	-0.15	6.15	1.432
35	SF2-TH-2	Y	-0.15	-0.19	1.432	2.25
36	SF2-TH-2	Y	-0.19	-0.15	2.25	3.068
37	SF2-TH-2	Y	-0.15	-0.06	3.068	3.885
38	GSI-1A	Y	-0.24	-0.24	1.049	2.549
39	SF2-TH-1	Y	-0.08	-0.08	2.019	3.471
40	GSIP-1A	Y	-0.01	-0.07	0	1
41	GSIP-1A	Y	-0.07	-0.11	1	2
42	GSIP-1A	Y	-0.11	-0.15	2	3

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	FFTH-3	Y	-0.03	-0.03	1.029	2.481
2	GSIP-1B	Y	-0.005967	-0.03	0	1
3	GSIP-1B	Y	-0.03	-0.05	1	2
4	GSIP-1B	Y	-0.05	-0.06	2	3
5	GSI-1B	Y	-0.1	-0.1	5.07	2.007
6	FFTH-2	Y	-0.02	-0.06	6.15	1.432
7	FFTH-2	Y	-0.06	-0.08	1.432	2.25
8	FFTH-2	Y	-0.08	-0.06	2.25	3.068
9	FFTH-2	Y	-0.06	-0.02	3.068	3.885
10	GSI-2A	Y	-0.1	-0.1	1.049	2.549
11	FFTH-1	Y	-0.03	-0.03	2.019	3.471
12	GSIP-2A	Y	-0.005967	-0.03	0	1
13	GSIP-2A	Y	-0.03	-0.05	1	2
14	GSIP-2A	Y	-0.05	-0.06	2	3
15	SF1-TH-3	Y	-0.03	-0.03	1.029	2.481
16	GSIP-2B	Y	-0.005967	-0.03	0	1
17	GSIP-2B	Y	-0.03	-0.05	1	2



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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
18	GSIP-2B	Y	-0.05	-0.06	2	3
19	GSI-2B	Y	-0.1	-0.1	5.07	2.007
20	SF1-TH-2	Y	-0.02	-0.06	6.15	1.432
21	SF1-TH-2	Y	-0.06	-0.08	1.432	2.25
22	SF1-TH-2	Y	-0.08	-0.06	2.25	3.068
23	SF1-TH-2	Y	-0.06	-0.02	3.068	3.885
24	GSI-3A	Y	-0.1	-0.1	1.049	2.549
25	SF1-TH-1	Y	-0.03	-0.03	2.019	3.471
26	GSIP-3A	Y	-0.005967	-0.03	0	1
27	GSIP-3A	Y	-0.03	-0.05	1	2
28	GSIP-3A	Y	-0.05	-0.06	2	3
29	SF2-TH-3	Y	-0.03	-0.03	1.029	2.481
30	GSIP-3B	Y	-0.005967	-0.03	0	1
31	GSIP-3B	Y	-0.03	-0.05	1	2
32	GSIP-3B	Y	-0.05	-0.06	2	3
33	GSI-3B	Y	-0.1	-0.1	5.07	2.007
34	SF2-TH-2	Y	-0.02	-0.06	6.15	1.432
35	SF2-TH-2	Y	-0.06	-0.08	1.432	2.25
36	SF2-TH-2	Y	-0.08	-0.06	2.25	3.068
37	SF2-TH-2	Y	-0.06	-0.02	3.068	3.885
38	GSI-1A	Y	-0.1	-0.1	1.049	2.549
39	SF2-TH-1	Y	-0.03	-0.03	2.019	3.471
40	GSIP-1A	Y	-0.005967	-0.03	0	1
41	GSIP-1A	Y	-0.03	-0.05	1	2
42	GSIP-1A	Y	-0.05	-0.06	2	3

Member Area Loads (BLC 1 : Dead)

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]	
1	N122A	N149	N147	N139	Y	Two Way	-0.12
2	N147	N148	N140	N139	Y	Two Way	-0.12
3	N148	N129	N128	N140	Y	Two Way	-0.12
4	N155	N126	N142	N153	Y	Two Way	-0.12
5	N153	N142	N143	N154	Y	Two Way	-0.12
6	N150	N154	N143	N120	Y	Two Way	-0.12
7	GSIP3	N161	N159	N141	Y	Two Way	-0.12
8	N141	N159	N160	N144	Y	Two Way	-0.12
9	N124	N156	N160	N144	Y	Two Way	-0.12

Member Area Loads (BLC 18 : Ice Weight)

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]	
1	N122A	N149	N147	N139	Y	Two Way	-0.05
2	N147	N148	N140	N139	Y	Two Way	-0.05
3	N148	N129	N128	N140	Y	Two Way	-0.05
4	N155	N126	N142	N153	Y	Two Way	-0.05
5	N153	N142	N143	N154	Y	Two Way	-0.05
6	N150	N154	N143	N120	Y	Two Way	-0.05
7	GSIP3	N161	N159	N141	Y	Two Way	-0.05
8	N141	N159	N160	N144	Y	Two Way	-0.05
9	N124	N156	N160	N144	Y	Two Way	-0.05



Company : Tower Engineering Professionals
 Designer : GHM
 Job Number : TEP No. 83248.504882
 Model Name : CCI BU No 828915

Feb 24, 2021
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Envelope Joint Reactions

Joint	X [k]	Y [k]	Z [k]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
1 SA3 max	2.427	18.442	34.1232	6.134	14.1296	6.23
2 SA1 min	-1.01	10.13	10.-1.276	30.-137	22.-1308	30.-585
3 SA1 max	1.006	2.519	45.907	6.-204	16.1284	17.345
4 SA2 min	-1.758	26.158	5.-2.12	30.-561	41.-1.296	25.038
5 SA2 max	.888	2.437	39.2192	22.713	50.1243	11.451
6 N110A min	-1.615	59.13	15.-943	14.172	4.-1.256	19.032
7 N110A max	-.941	2.1529	42.147	24.0	7.0	31.0
8 N111A min	-2.839	42.531	83.-097	16.0	31.0	7.0
9 N111A max	1.501	35.1535	38.2449	38.0	26.0	26.0
10 N112A min	.395	11.533	94.763	14.0	2.0	2.0
11 N112A max	1.815	66.1528	46.-773	6.0	50.0	21.0
12 Totals min	.366	9.531	88.-2501	46.0	25.0	13.0
13 Totals max	4.415	18.5909	40.4451	22.0		
14 Totals min	-4.415	10.2171	97.-4451	14.0		

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

Member	Shape	Code Check	Loc [ft]	LC	Shear Check	Loc [ft]	Dir	LC	phi*Pnc	phi*Pnt	phi*Mn y-y	phi*Mn z-z	Cb	Eqn
1 MP-2	PIPE 2.0	.286	3.281	26	.037	3.281	30	17.855	32.13	1.872	1.872	2	1	H1-1b
2 MP-5	PIPE 2.0	.286	3.281	31	.037	3.281	19	17.855	32.13	1.872	1.872	2	1	H1-1b
3 MP-8	PIPE 2.0	.286	3.281	21	.037	3.281	25	17.855	32.13	1.872	1.872	2	1	H1-1b
4 GSI-2A	L2.5x1.5x4	.278	3.058	58	.016	0	z	44	22.942	30.683	.461	1.597	2	H2-1
5 GSI-1B	L2.5x1.5x4	.261	3.058	42	.017	3.058	z	40	22.942	30.683	.461	1.597	2	H2-1
6 GSI-2B	L2.5x1.5x4	.261	3.058	37	.017	3.058	z	38	22.942	30.683	.461	1.597	2	H2-1
7 GSI-3B	L2.5x1.5x4	.261	3.058	48	.017	3.058	z	46	22.942	30.683	.461	1.597	2	H2-1
8 GSI-3A	L2.5x1.5x4	.229	0	37	.016	0	z	38	22.942	30.683	.461	1.597	2	H2-1
9 GSI-1A	L2.5x1.5x4	.227	0	47	.016	0	z	46	22.942	30.683	.461	1.597	2	H2-1
10 MP-3	PIPE 2.0	.189	3.281	26	.022	3.281	26	17.855	32.13	1.872	1.872	1	1	H1-1b
11 MP-9	PIPE 2.0	.189	3.281	21	.022	3.281	21	17.855	32.13	1.872	1.872	1	1	H1-1b
12 MP-6	PIPE 2.0	.189	3.281	31	.022	3.281	31	17.855	32.13	1.872	1.872	1	1	H1-1b
13 K6	L2.5x2.5x3	.158	2.181	55	.005	0	v	29	15.69	29.192	.873	1.677	1	H2-1
14 SA-1	HSS3X3X6	.154	0	25	.051	0	z	25	48.779	140.346	11.213	11.213	3	H1-1b
15 SA-3	HSS3X3X6	.153	0	30	.051	0	z	30	48.779	140.346	11.213	11.213	3	H1-1b
16 K1	L2.5x2.5x3	.151	2.181	46	.005	4.362	z	23	15.69	29.192	.873	1.677	1	H2-1
17 K5	L2.5x2.5x3	.151	2.181	40	.005	0	z	18	15.69	29.192	.873	1.677	1	H2-1
18 K3	L2.5x2.5x3	.151	2.181	35	.005	0	z	29	15.69	29.192	.873	1.677	1	H2-1
19 SA-2	HSS3X3X6	.148	0	19	.049	0	z	19	48.779	140.346	11.213	11.213	3.57	H1-1b
20 FFTH-1	PIPE 3.0	.148	3.516	51	.088	3.516	59	62.286	65.205	5.749	5.749	1	1	H1-1b
21 K2	L2.5x2.5x3	.144	2.181	44	.005	0	v	18	15.69	29.192	.873	1.677	1	H2-1
22 K4	L2.5x2.5x3	.143	2.181	49	.005	0	v	23	15.69	29.192	.873	1.677	1	H2-1
23 SF2-TH-1	PIPE 3.0	.142	3.516	39	.084	3.516	47	62.286	65.205	5.749	5.749	1	1	H1-1b
24 SF1-TH-1	PIPE 3.0	.141	3.516	45	.084	3.516	37	62.286	65.205	5.749	5.749	1.72	1	H1-1b
25 SF2-TH-3	PIPE 3.0	.138	.984	42	.094	.984	47	62.286	65.205	5.749	5.749	1	1	H1-1b
26 FFTH-3	PIPE 3.0	.137	.984	34	.095	.984	42	62.286	65.205	5.749	5.749	1	1	H1-1b
27 SF1-TH-3	PIPE 3.0	.136	.984	47	.094	.984	37	62.286	65.205	5.749	5.749	1	1	H1-1b
28 MP-4	PIPE 2.0	.126	3.281	31	.012	3.281	31	17.855	32.13	1.872	1.872	1	1	H1-1b
29 MP-7	PIPE 2.0	.126	3.281	21	.012	3.281	21	17.855	32.13	1.872	1.872	1	1	H1-1b
30 MP-1	PIPE 2.0	.126	3.281	26	.012	3.281	26	17.855	32.13	1.872	1.872	1	1	H1-1b
31 FFTH-2	PIPE 3.0	.126	2.25	34	.037	0	26	62.286	65.205	5.749	5.749	1	1	H1-1b
32 SF2-TH-2	PIPE 3.0	.126	2.25	42	.036	0	31	62.286	65.205	5.749	5.749	1	1	H1-1b
33 SF1-TH-2	PIPE 3.0	.125	2.25	42	.037	0	21	62.286	65.205	5.749	5.749	1	1	H1-1b
34 CP-2	PL6x3/4	.104	.5	24	.061	.5	v	50	124.029	145.8	2.278	18.225	1.06	H1-1b
35 CP-1	PL6x3/4	.103	.5	29	.034	.5	v	18	124.029	145.8	2.278	18.225	1	H1-1b
36 CP-3	PL6x3/4	.103	.5	18	.034	.5	v	23	124.029	145.8	2.278	18.225	1.03	H1-1b
37 GSIP-2A	L2.5x2.5x3	.062	3	50	.006	3	z	59	21.764	29.192	.873	1.949	1	H2-1
38 GSIP-2B	L2.5x2.5x3	.057	3	50	.006	3	v	59	21.764	29.192	.873	1.931	1	H2-1



Company : Tower Engineering Professionals
 Designer : GHM
 Job Number : TEP No. 83248.504882
 Model Name : CCI BU No 828915

Feb 24, 2021
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Envelope AISC 15th(360-16): LRFD Steel Code Checks (Continued)

Member	Shape	Code Check	Loc [ft]	LC	Shear Check	Loc [ft]	Dir	LC	phi*Pnc	phi*Pnt	phi*Mn y-y	phi*Mn z-z	Cb	Eqn
39 SA-3B	HSS3X3X6	.052	.383	30	.035	.383	z	30	48.779	140.346	11.213	11.213	1	H1-1b
40 SA-1B	HSS3X3X6	.051	.383	25	.035	.383	z	25	48.779	140.346	11.213	11.213	1.63	H1-1b
41 SA-2B	HSS3X3X6	.051	1.422	50	.035	.383	z	19	48.779	140.346	11.213	11.213	2.15	H1-1b
42 GSIP-3A	L2.5x2.5x3	.037	0	29	.005	3	z	31	21.764	29.192	.873	1.943	1	H2-1
43 GSIP-1A	L2.5x2.5x3	.036	0	24	.005	3	z	42	21.764	29.192	.873	1.852	1	H2-1
44 GSIP-3B	L2.5x2.5x3	.036	3	33	.005	3	v	47	21.764	29.192	.873	1.904	1	H2-1
45 GSIP-1B	L2.5x2.5x3	.036	3	27	.005	3	v	42	21.764	29.192	.873	1.886	1	H2-1

Envelope None Cold Formed Steel Code Checks

Member	Shape	Code Check	Loc [ft]	LC	Shear Check	Loc [ft]	Dir	LC	Pn[k]	Tn[k]	Mnyy[k...Mnzz[k...]	Cb	Cmyy	Cmzz	Eqn
No Data to Print ...															

APPENDIX D
ADDITIONAL CALCULATIONS



CCI BU No 828915

TEP No. 83248.504882

Analysis By: GHM 2/24/2021

Checked By: JWS 2/24/2021

Moment Bolt Group - Support Arm

Code Revisions:	ANSI/TIA-222-H
Bolt Type:	Headed Bolts

Connection Inputs:

Bolt Size:	0.625	in
# Bolts:	4	
Plate Width:	6.00	in
Plate Height:	6.00	in
Bolt H Gap:	4.00	in
Bolt V Gap:	4.00	in
Plate T:	0.750	in
Slip Member Ø:	N/A	in
Bolt Grade:	A325N	

Capacities:

Bolt Capacity=	13.6%	PASS
Plate Capacity=	8.0%	PASS

Bolt Properties:

$F_{y_{bolt}}$:	92.0	ksi
$F_{u_{bolt}}$:	120.0	ksi
r:	2.8	in
J:	32.0	in ⁴ /in ²
A_{bolt} :	0.3	in ²
$A_{bolt, Net Tensile}$:	0.2	in ²
Pretension:	19.0	kips

Member Properties:

Member Shape:	Flat	
Plate F_y :	36.0	ksi
Plate F_u :	58.0	ksi
Member Height:	3.0	in
Member Width:	3.0	in

Exhibit F



RF EMISSIONS COMPLIANCE REPORT

Crown Castle on behalf of AT&T Mobility, LLC

Crown Castle Site BU Number: 828915
Crown Castle Site Name: Wallingford/ I-91/ X14/ S
AT&T Mobility, LLC FA #: 10071340
AT&T Mobility, LLC USID: 44020
AT&T Mobility, LLC Site Name: WALLINGORD-POND HILL
Application ID: 517093
316 Woodhouse Avenue
Wallingford, CT
3/23/2021

Report Status:

AT&T Mobility, LLC is Compliant

Signed 23 March 2021

Prepared By:

Site Safe, LLC

Engineering Statement in Re:
Electromagnetic Energy Analysis
Crown Castle
Wallingford, CT

My signature on the cover of this document indicates:

That I am registered as a Professional Engineer in the jurisdiction indicated; and

That I have extensive professional experience in the wireless communications engineering industry; and

That I am an employee of Site Safe, LLC in Vienna, Virginia; and

That I am thoroughly familiar with the Rules and Regulations of the Federal Communications Commission ("the FCC" and "the FCC Rules") both in general and specifically as they apply to the FCC's Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields; and

That the technical information serving as the basis for this report was supplied by Crown Castle on behalf of AT&T Mobility, LLC (see attached Site Summary and Carrier documents) and that AT&T Mobility, LLC's installation involves communications equipment, antennas and associated technical equipment at a location referred to as "Wallingford/ I-91/ X14/ S" ("the site"); and

That AT&T Mobility, LLC proposes to operate at the site with transmit antennas listed in the carrier summary and with a maximum effective radiated power as specified by AT&T Mobility, LLC and shown on the worksheet and that worst-case 100% duty cycle has been assumed; and

That in addition to the emitters specified in the worksheet, there are additional collocated point-to-point microwave facilities on this structure, and the antennas used are highly directional and oriented at angles at or just below the horizontal, and that the energy present at ground level is typically so low as to be considered insignificant and has not been included in this analysis (a list of microwave antennas is included); and

That this analysis has been performed with the assumption that the ground immediately surrounding the tower is primarily flat or falling; and

That at this time, the FCC requires that certain licensees address specific levels of radio frequency energy to which workers or members of the public might possibly be exposed (at §1.1307(b) of the FCC Rules); and

That such consideration of possible exposure of humans to radio frequency energy must utilize the standards set by the FCC, which is the federal agency having jurisdiction over communications facilities; and

That the FCC rules define two tiers of permissible exposure guidelines: 1) "uncontrolled environments," which defines situations in which persons may not be aware of (the "general public"), or may not be able to control their exposure to a transmission facility; and 2) "controlled environments," which defines situations in which persons are aware of their potential for exposure (industry personnel); and

That this statement specifically addresses the uncontrolled environment (which is more conservative than the controlled environment) and the limit set forth in the FCC rules for licensees of AT&T Mobility, LLC's operating frequencies as shown on the attached antenna worksheet; and

That when applying the uncontrolled environment standards, the predicted Maximum Power Density at two meters above ground level from the proposed AT&T Mobility, LLC operation is no more than 2.759% of the maximum permissible exposure limits in any accessible area on the ground; and

That it is understood per FCC Guidelines and OET 65 Appendix A, that regardless of the existent radio frequency environment, only those licensees whose contributions exceed 5% of the exposure limit pertinent to their operation(s) bear any responsibility for bringing any non-compliant area(s) into compliance; and

That when applying the uncontrolled environment standards, the cumulative predicted energy density from the proposed operation is no more than 4.021% of the maximum in any accessible area up to two meters above the ground per OET 65; and

That the calculations provided in this report are based on data provided by the client and antenna pattern data supplied by the antenna manufacturer, in accordance with FCC guidelines listed in OET 65. Horizontal and vertical antenna patterns are combined for modeling purposes to accurately reflect the energy two meters above ground level where on-axis energy refers to maximum energy two meters above the ground along the azimuth of the antenna and where area energy refers to the maximum energy anywhere two meters above the ground regardless of the antenna azimuth, accounting for cumulative energy from multiple antennas for the carrier(s) and frequency range(s) indicated; and

That the Occupational Safety and Health Administration has policies in place which address worker safety in and around communications sites, thus individual companies will be responsible for their employees' training regarding radio frequency safety; and

In summary, it is stated here that the proposed operation at the site will not result in exposure of the public to excessive levels of radio frequency energy as defined in the FCC Rules and Regulations, specifically 47 CFR 1.1307(b), and that AT&T Mobility, LLC's proposed operation is completely compliant.

Finally, it is stated that access to the tower should be restricted to communication industry professionals and approved contractor personnel trained in radio frequency safety and that this instant analysis addresses exposure levels at two meters above ground level and does not address exposure levels on the tower or in the immediate proximity of the antennas.

**Crown Castle
Wallingford/ I-91/ X14/ S
Site Summary**

Carrier	Area Maximum Percentage MPE
AT&T Mobility, LLC	0.914 %
AT&T Mobility, LLC	0.353 %
AT&T Mobility, LLC	0.154 %
AT&T Mobility, LLC (Proposed)	0.785 %
AT&T Mobility, LLC (Proposed)	0.553 %
Clearwire	0.158 %
Clearwire	0.158 %
Clearwire	0.185 %
Clearwire	0.289 %
T-Mobile	0.166 %
T-Mobile	0.140 %
T-Mobile	0.166 %
 Composite Site MPE:	 4.021 %

AT&T Mobility, LLC
Wallingford/ I-91/ X14/ S
Carrier Summary

Frequency: 1900 MHz
Maximum Permissible Exposure (MPE): 1000 $\mu\text{W}/\text{cm}^2$
Maximum power density at ground level: 9.14164 $\mu\text{W}/\text{cm}^2$
Highest percentage of Maximum Permissible Exposure: 0.91416 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE	Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
CCI Antennas	HPA-65R-BUU-H6	128	20	4530	7.306287	0.730629	8.990119	0.899012
CCI Antennas	HPA-65R-BUU-H6	128	150	4530	6.306785	0.630679	7.653104	0.765310
CCI Antennas	HPA-65R-BUU-H6	128	260	4530	7.306287	0.730629	8.990119	0.899012

AT&T Mobility, LLC
Wallingford/ I-91/ X14/ S
Carrier Summary

Frequency: 737 MHz
Maximum Permissible Exposure (MPE): 491.33 $\mu\text{W}/\text{cm}^2$
Maximum power density at ground level: 1.73501 $\mu\text{W}/\text{cm}^2$
Highest percentage of Maximum Permissible Exposure: 0.35312 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE	Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
CCI Antennas	HPA-65R-BUU-H6	128	20	881	1.703876	0.346786	1.704050	0.346822
CCI Antennas	HPA-65R-BUU-H6	128	150	881	0.754474	0.153556	1.011547	0.205878
CCI Antennas	HPA-65R-BUU-H6	128	260	881	1.703876	0.346786	1.704050	0.346822

AT&T Mobility, LLC
Wallingford/ I-91/ X14/ S
Carrier Summary

Frequency: 850 MHz
Maximum Permissible Exposure (MPE): 566.67 $\mu\text{W}/\text{cm}^2$
Maximum power density at ground level: 0.87456 $\mu\text{W}/\text{cm}^2$
Highest percentage of Maximum Permissible Exposure: 0.15433 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE	Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
Powerwave	7770	128	20	547	0.581890	0.102686	0.599329	0.105764
Powerwave	7770	128	150	547	0.443885	0.078333	0.541947	0.095638
Powerwave	7770	128	260	547	0.751267	0.132577	0.761859	0.134446

AT&T Mobility, LLC (Proposed)
Wallingford/ I-91/ X14/ S
Carrier Summary

Frequency: 2100 MHz
Maximum Permissible Exposure (MPE): 1000 $\mu\text{W}/\text{cm}^2$
Maximum power density at ground level: 7.85087 $\mu\text{W}/\text{cm}^2$
Highest percentage of Maximum Permissible Exposure: 0.78509 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE	Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
CCI Antennas	HPA65R-BU6A	128	20	5497	5.283283	0.528328	7.748139	0.774814
CCI Antennas	HPA65R-BU6A	128	150	5497	4.480223	0.448022	6.491587	0.649159
CCI Antennas	HPA65R-BU6A	128	260	5497	5.283283	0.528328	7.748139	0.774814

AT&T Mobility, LLC (Proposed)
Wallingford/ I-91/ X14/ S
Carrier Summary

Frequency: 850 MHz
Maximum Permissible Exposure (MPE): 566.67 $\mu\text{W}/\text{cm}^2$
Maximum power density at ground level: 3.13371 $\mu\text{W}/\text{cm}^2$
Highest percentage of Maximum Permissible Exposure: 0.55301 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE	Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
CCI Antennas	HPA65R-BU6A	128	20	2631	3.097277	0.546578	3.121163	0.550793
CCI Antennas	HPA65R-BU6A	128	150	2631	1.629144	0.287496	1.652869	0.291683
CCI Antennas	HPA65R-BU6A	128	260	2631	3.097277	0.546578	3.121163	0.550793

**Clearwire
Wallingford/ I-91/ X14/ S
Carrier Summary**

Frequency: 1990 MHz
 Maximum Permissible Exposure (MPE): 1000 $\mu\text{W}/\text{cm}^2$
 Maximum power density at ground level: 1.58231 $\mu\text{W}/\text{cm}^2$
 Highest percentage of Maximum Permissible Exposure: 0.15823 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE	Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
Commscope	NNVV-65B-R4	138	0	2781	1.222025	0.122203	1.569387	0.156939
Commscope	NNVV-65B-R4	138	120	2781	1.222025	0.122203	1.569387	0.156939
Commscope	NNVV-65B-R4	138	240	2781	1.222025	0.122203	1.569387	0.156939

**Clearwire
Wallingford/ I-91/ X14/ S
Carrier Summary**

Frequency: 1900 MHz
 Maximum Permissible Exposure (MPE): 1000 $\mu\text{W}/\text{cm}^2$
 Maximum power density at ground level: 1.58231 $\mu\text{W}/\text{cm}^2$
 Highest percentage of Maximum Permissible Exposure: 0.15823 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE	Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
Commscope	NNVV-65B-R4	138	0	2781	1.222025	0.122203	1.569387	0.156939
Commscope	NNVV-65B-R4	138	120	2781	1.222025	0.122203	1.569387	0.156939
Commscope	NNVV-65B-R4	138	240	2781	1.222025	0.122203	1.569387	0.156939

**Clearwire
Wallingford/ I-91/ X14/ S
Carrier Summary**

Frequency: 862 MHz
 Maximum Permissible Exposure (MPE): 574.67 $\mu\text{W}/\text{cm}^2$
 Maximum power density at ground level: 1.06269 $\mu\text{W}/\text{cm}^2$
 Highest percentage of Maximum Permissible Exposure: 0.18492 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE	Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
Commscope	NNVV-65B-R4	138	0	1901	0.951711	0.165611	0.971308	0.169021
Commscope	NNVV-65B-R4	138	120	1901	0.951711	0.165611	0.971308	0.169021
Commscope	NNVV-65B-R4	138	240	1901	0.951711	0.165611	0.971308	0.169021

**Clearwire
Wallingford/ I-91/ X14/ S
Carrier Summary**

Frequency: 2500 MHz
 Maximum Permissible Exposure (MPE): 1000 $\mu\text{W}/\text{cm}^2$
 Maximum power density at ground level: 2.88585 $\mu\text{W}/\text{cm}^2$
 Highest percentage of Maximum Permissible Exposure: 0.28859 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE	Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
RFS	APXVTM14-C-I20	138	0	6168	1.178331	0.117833	2.236287	0.223629
RFS	APXVTM14-C-I20	138	120	6168	1.178331	0.117833	2.236287	0.223629
RFS	APXVTM14-C-I20	138	240	6168	1.178331	0.117833	2.236287	0.223629

**T-Mobile
Wallingford/ I-91/ X14/ S
Carrier Summary**

Frequency: 2100 MHz
 Maximum Permissible Exposure (MPE): 1000 $\mu\text{W}/\text{cm}^2$
 Maximum power density at ground level: 1.65885 $\mu\text{W}/\text{cm}^2$
 Highest percentage of Maximum Permissible Exposure: 0.16588 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE	Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
Ericsson	AIR 21 B4A B2P	148	20	4123	0.910622	0.091062	1.040237	0.104024
Ericsson	AIR 21 B4A B2P	148	132	4123	0.910622	0.091062	1.040237	0.104024
Ericsson	AIR 21 B4A B2P	148	275	4123	0.910622	0.091062	1.040237	0.104024

**T-Mobile
Wallingford/ I-91/ X14/ S
Carrier Summary**

Frequency: 700 MHz
 Maximum Permissible Exposure (MPE): 466.67 $\mu\text{W}/\text{cm}^2$
 Maximum power density at ground level: 0.65426 $\mu\text{W}/\text{cm}^2$
 Highest percentage of Maximum Permissible Exposure: 0.14020 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE	Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
ANDREW	LNx-6515DS-VTM	148	20	1715	0.455099	0.097521	0.464772	0.099594
ANDREW	LNx-6515DS-VTM	148	132	1715	0.455099	0.097521	0.464772	0.099594
ANDREW	LNx-6515DS-VTM	148	275	1715	0.455099	0.097521	0.464772	0.099594

**T-Mobile
Wallingford/ I-91/ X14/ S
Carrier Summary**


Frequency: 1900 MHz
Maximum Permissible Exposure (MPE): 1000 $\mu\text{W}/\text{cm}^2$
Maximum power density at ground level: 1.65885 $\mu\text{W}/\text{cm}^2$
Highest percentage of Maximum Permissible Exposure: 0.16588 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE	Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
Ericsson	AIR 21 B2A B4P	148	20	4123	0.910622	0.091062	1.040237	0.104024
Ericsson	AIR 21 B2A B4P	148	132	4123	0.910622	0.091062	1.040237	0.104024
Ericsson	AIR 21 B2A B4P	148	275	4123	0.910622	0.091062	1.040237	0.104024

Wallingford/ I-91/ X14/ S
Composite Microwave Antenna Summary

Carrier	Antenna Make/Model	Height (feet)
Clearwire	Andrew VHLP1-23-DW1	138

Exhibit G



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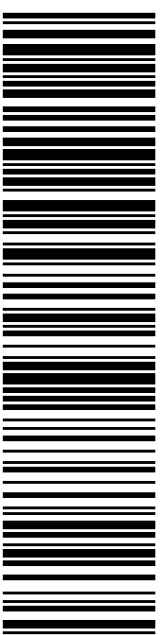
Expected Delivery Date: 04/08/21
 Ref#: CR-828915
0006

DEBORAH CHASE
 NORTHEAST SITE SOLUTIONS, LLC
 420 MAIN ST STE 2
 STURBRIDGE MA 01566-1359

C006

SHIP
 TO: LISA MATTHEWS
 CT SITING COUNCIL
 10 FRANKLIN SQ
 NEW BRITAIN CT 06051-2655

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Ship Date: 04/05/2021	
Expected Delivery Date: 04/08/2021	


From: DEBORAH CHASE Ref#: CR-828915
 NORTHEAST SITE SOLUTIONS, LLC
 420 MAIN ST STE 2
 STURBRIDGE MA 01566-1359

To: LISA MATTHEWS
 CT SITING COUNCIL
 10 FRANKLIN SQ
 NEW BRITAIN CT 06051-2655

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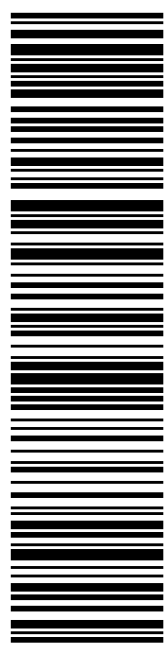
SHIP TO:

DEBORAH CHASE
 NORTH EAST SITE SOLUTIONS, LLC
 420 MAIN ST STE 2
 STURBRIDGE MA 01566-1359

R032

ANNE MARIE ZSAMBA
 3 CORPORATE DR
 HALFMOON NY 12065-8635

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Print Date: 04/02/2021	Total: \$7.95
Ship Date: 04/05/2021	
Expected Delivery Date: 04/08/2021	


From: DEBORAH CHASE Ref#: CC-828915
 NORTH EAST SITE SOLUTIONS, LLC
 420 MAIN ST STE 2
 STURBRIDGE MA 01566-1359

To: ANNE MARIE ZSAMBA
 3 CORPORATE DR
 HALFMOON NY 12065-8635

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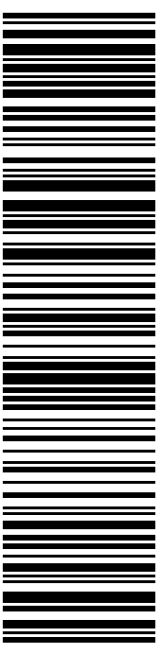
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 WILLIAM A DICKINSON
 45 S MAIN ST
 WALLINGFORD CT 06492-4201

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Trans. #: 529541243	Priority Mail® Postage: \$7.95
Print Date: 04/02/2021	Total: \$7.95
Ship Date: 04/05/2021	
Expected Delivery Date: 04/08/2021	


From: DEBORAH CHASE Ref#: CR-828915
 NORTHEAST SITE SOLUTIONS, LLC
 420 MAIN ST STE 2
 STURBRIDGE MA 01566-1359

To: WILLIAM A DICKINSON
 45 S MAIN ST
 WALLINGFORD CT 06492-4201

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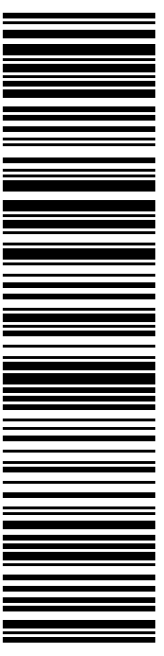
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 Ref#: CT-828915
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SHIP TO:

AMY TORRE
 45 S MAIN ST
 WALLINGFORD CT 06492-4201

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Trans. #: 529541243	Priority Mail® Postage: \$7.95
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Ship Date: 04/05/2021	
Expected Delivery Date: 04/08/2021	

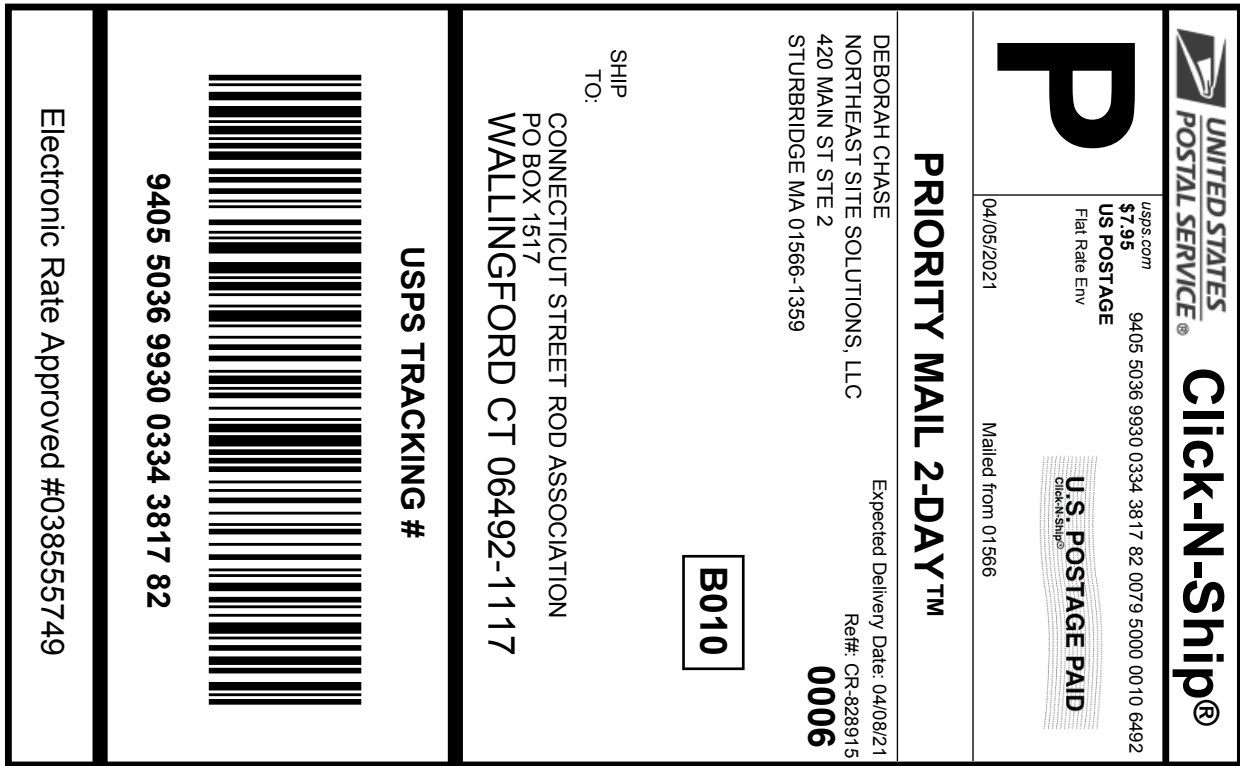
From: DEBORAH CHASE Ref#: CT-828915
 NORTHEAST SITE SOLUTIONS, LLC
 420 MAIN ST STE 2
 STURBRIDGE MA 01566-1359

To: AMY TORRE
 45 S MAIN ST
 WALLINGFORD CT 06492-4201

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Trans. #:	529541243	Priority Mail® Postage:	\$7.95
Print Date:	04/02/2021	Total:	\$7.95
Ship Date:	04/05/2021		
Expected			
Delivery Date:	04/08/2021		

From: DEBORAH CHASE Ref#: CR-828915
NORTHEAST SITE SOLUTIONS, LLC
420 MAIN ST STE 2
STURBRIDGE MA 01566-1359

To: CONNECTICUT STREET ROD ASSOCIATION
PO BOX 1517
WALLINGFORD CT 06492-1117

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