



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

September 9, 2020

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

RE: Notice of Exempt Modification for Crown Site BU: 806367
AT&T Site ID: CT5386
65 Maple Avenue West (aka 109 Maple Ave), Haddam, CT 06441
Latitude: 41° 29' 4.54"/ Longitude: -72° 34' 20.81"

Dear Ms. Bachman:

AT&T currently maintains twelve (12) antennas at the 87-foot mount of the existing 116-foot Monopole Tower located at 65 (aka 109) Maple Avenue West in Haddam, Connecticut. The tower is owned by Crown Castle. The property is owned by Diane and Michael Gondek. AT&T now intends to relocate three (3) RRUs already installed on the tower. AT&T is proposing to install three (3) RRUs on the ground and add a ground cabinet on their existing platform within their existing lease space.

The facility was approved by the Connecticut Siting Council in Docket No. 170 on November 15, 1995. AT&T's proposed modification will not violate the conditions set forth in the Decision and Order.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.S.C.A. § 16-50j-73, a copy of this letter is being sent to Mr. Robert McGarry, First Selectman, Town of Haddam, Gary Vivian, Building Official, as well as the property owner and Crown Castle is the tower owner.

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

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

The Foundation for a Wireless World.

CrownCastle.com

Melanie A. Bachman

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Sincerely,

Anne Marie Zsamba
Site Acquisition Specialist
3 Corporate Park Drive, Suite 101
Clifton Park, NY 12065
(201) 236-9224
annemarie.zsamba@crowncastle.com

Attachments:

cc: Robert McGarry, First Selectman (*via email only to selectman@haddam.org*)
Town of Haddam
30 Field Park Drive
Haddam, CT 06438

Gary Vivian, Building Official (*via email only to building@haddam.org*)
Town of Haddam
30 Field Park Drive
Haddam, CT 06438

Diane & Michael Gondek
109 Maple Avenue West
Higganum, CT 06441

ORIGIN ID: SCHA (518) 350-3639
ANNE MARIE ZSAMBA
CROWN CASTLE
21 HEATHER DRIVE
GANSEVOORT, NY 12831
UNITED STATES US

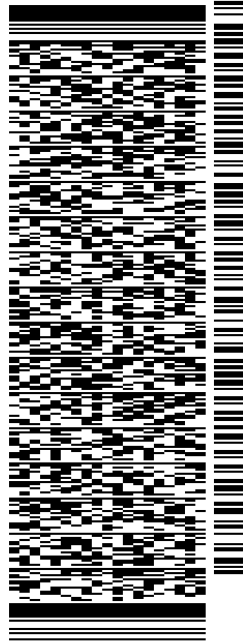
SHIP DATE: 09SEP20
ACTWGT: 1.00 LB
CAD: 104924194INNET4280
BILL SENDER

TO MICHAEL & DIANE GONDEK

109 MAPLE AVENUE WEST

HIGGANUM CT 06441

(201) 236-9224 REF: 1734.7890
INV: DEPT:
PO:



J202020071401uv

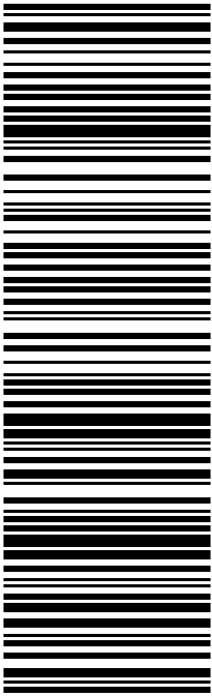
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TRK# 7714 7489 2913
0201

THU - 10 SEP 10:30A
PRIORITY OVERNIGHT

EB RSPA

06441
CT-US BDL



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From: [Zsamba, Anne Marie](#)
To: ["building@haddam.org"](mailto:building@haddam.org)
Subject: Notice of Exempt Modification - 109 (aka 65) Maple Avenue West, Haddam - AT&T
Date: Wednesday, September 9, 2020 5:51:00 AM
Attachments: [EM-AT&T-109 aka 65 MAPLE AVE WEST HADDAM-806367-notice.pdf](#)

Dear Mr. Vivian:

Attached please find AT&T's exempt modification application that is being submitted to the Connecticut Siting Council today, September 9, 2020.

In light of the present circumstances with Covid-19, The Council has advised that electronic notification of this filing is acceptable. If you could kindly confirm receipt. Thank you.

Best,
Anne Marie Zsamba

ANNE MARIE ZSAMBA
Site Acquisition Specialist
T: (201) 236-9224
M: (518) 350-3639
F: (724) 416-6112

CROWN CASTLE
3 Corporate Park Drive, Suite 101
Clifton Park, NY 12065
CrownCastle.com

From: [Zsamba, Anne Marie](#)
To: selectman@haddam.org
Subject: Notice of Exempt Modification - 109 (aka 65) Maple Avenue West, Haddam - AT&T
Date: Wednesday, September 9, 2020 5:51:00 AM
Attachments: [EM-AT&T-109 aka 65 MAPLE AVE WEST HADDAM-806367-notice.pdf](#)

Dear First Selectman McGarry:

Attached please find AT&T's exempt modification application that is being submitted to the Connecticut Siting Council today, September 9, 2020.

In light of the present circumstances with Covid-19, The Council has advised that electronic notification of this filing is acceptable. If you could kindly confirm receipt. Thank you.

Best,
Anne Marie Zsamba

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Site Acquisition Specialist
T: (201) 236-9224
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CROWN CASTLE
3 Corporate Park Drive, Suite 101
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Exhibit A

Original Facility Approval



CONNECTICUT SITING COUNCIL

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- Filing Guides
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Melanie Bachman,
Executive Director

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DOCKET NO. 170 - An application of Metro Mobile CTS of Hartford, Inc. for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance, and operation of a cellular telecommunications facility located at 109 Maple Avenue West in the Higganum section of the Town of Haddam, Connecticut.

Connecticut Siting Council

November 15, 1995

DECISION AND ORDER

Pursuant to the foregoing Findings of Fact, and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a cellular telecommunications tower and equipment building at the proposed prime site in the Higganum section of Haddam, Connecticut, including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate either alone or cumulatively with other effects when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to Bell Atlantic NYNEX Mobile, Inc. for the construction, operation, and maintenance of a cellular telecommunications tower, associated equipment, and building at the proposed prime site, located within an 88.85 acre parcel at 109 Maple Avenue West, Haddam, Connecticut. We find the effects on scenic resources and the environment from the alternate site to be more significant than the effects from the prime site, and therefore deny certification of the alternate site without prejudice.

The facility shall be constructed, operated, and maintained as a monopole substantially as specified in the Council's record in this matter, and subject to the following conditions:

1. The tower shall be constructed as a monopole, no taller than necessary to provide the proposed communications service and sufficient to accommodate tower sharing, and not to exceed a total height of 120 feet above ground level.
2. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be submitted to and approved by the Council prior to the commencement of facility construction and shall include plans for the tower and tower foundation; specifications for the placement of all antennas to be attached to this tower; plans for the equipment building, security fence, emergency generator and fuel tank; plans for the access road and utility line installation from 109 Maple Avenue West; plans for site clearing and tree trimming; and plans for water drainage and erosion and sedimentation controls consistent with the Connecticut Guidelines for Soil Erosion and Sedimentation Control, as amended.
3. Upon the establishment of any new State or federal radio frequency power density standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.
4. The Certificate Holder shall provide the Council a recalculated report of electromagnetic radio frequency power density if and when circumstances in operation cause a change in power density above the levels originally calculated and provided in the application.
5. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.
6. If the facility does not initially provide, or permanently ceases to provide, cellular services following completion of construction, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapplication for any continued or new use shall be made to the Council before any such use is made.
7. Unless otherwise approved by the Council, this Decision and Order shall be void if all construction authorized herein is not completed within three years of the effective date of this Decision and Order or within three years after all appeals to this Decision and Order have been resolved.
8. The Certificate Holder shall notify the Council upon completion of construction and provide the final cost to construct the facility.

Pursuant to General Statutes § 16-50p, we hereby direct that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in The

Hartford Courant and the Middletown Press.

By this Decision and Order, the Council disposes of the legal rights, duties, and privileges of each party named or admitted to the proceeding in accordance with Section 16-50j-17 of the Regulations of Connecticut State Agencies.

The parties and intervenors to this proceeding are:

APPLICANT

Bell Atlantic NYNEX Mobile, Inc.

ITS REPRESENTATIVES

Brian C.S. Freeman, Esq.

Kenneth C. Baldwin, Esq.

Robinson & Cole

One Commercial Plaza

Hartford, CT 06103-3597

-

David S. Malko

General Manager - Engineering

Sandy M. Ranciato

Manager - Regulatory Services

Bell Atlantic NYNEX Mobile, Inc.

20 Alexander Drive

Wallingford, CT 06492

INTERVENOR

Town of Haddam

ITS REPRESENTATIVE

The Honorable Marjorie W. DeBold

First Selectman

Town of Haddam

30 Field Park Drive

Haddam, CT 06438

INTERVENOR

Springwich Cellular Limited Partnership

ITS REPRESENTATIVE

Peter J. Tyrrell, Esq.

General Counsel - Wireless

Springwich Cellular Limited Partnership

500 Enterprise Dr., 4th floor

Rocky Hill, CT 06067

Content Last Modified on 8/9/2002 11:34:46 AM

Ten Franklin Square New Britain, CT 06051 / 860- 827-2935

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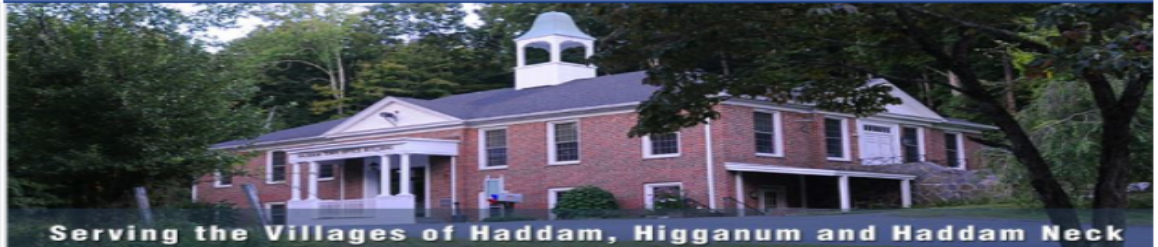
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Exhibit B

Property Card

The Assessor's office is responsible for the maintenance of records on the ownership of properties. Assessments are computed at 70% of the estimated market value of real property at the time of the last revaluation which was 2015.



Information on the Property Records for the Municipality of Haddam was last updated on 9/8/2020.

Parcel Information

Location:	109 MAPLE AVE WEST	Property Use:	Residential	Primary Use:	Residential
Unique ID:	M0380800	Map Block Lot:	15 108	Acres:	3.01
490 Acres:	0.00	Zone:	R-2A	Volume / Page:	0373/0540
Developers Map / Lot:		Census:	5901		

Value Information

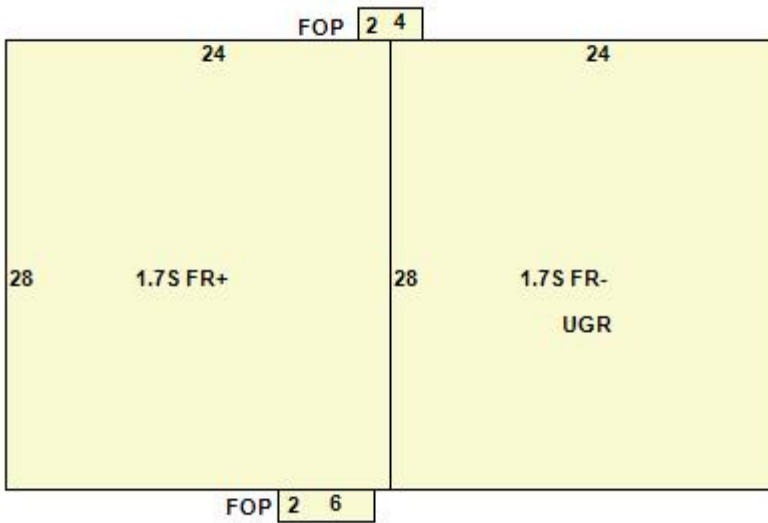
	Appraised Value	Assessed Value
Land	115,920	81,140
Buildings	165,530	116,170
Detached Outbuildings	0	0
Total	281,450	197,310

Owner's Information

Owner's Data

GONDEK MICHAEL P & DIANE M
 109 MAPLE AVE WEST
 HIGGANUM, CT 06441

Building 1



Building Use:	Single Family	Style:	Cape	Living Area:	2,284
Stories:	1.75	Construction:	Wood Frame	Year Built:	1977
Total Rooms:	7	Bedrooms:	3	Full Baths:	2

Half Baths:	0	Fireplaces:	0	Heating:	Hot Water
Fuel:	Oil	Cooling Percent:	0	Basement Area:	0
Basement Finished Area:	0	Basement Garages:	2	Roof Material:	Asphalt
Siding:	Clapboards	Units:			

Special Features

Basement	672
Fireplace	1

Attached Components

Type:	Year Built:	Area:
Garge Under	1977	672
Open Porch	1977	12
Open Porch	1977	8

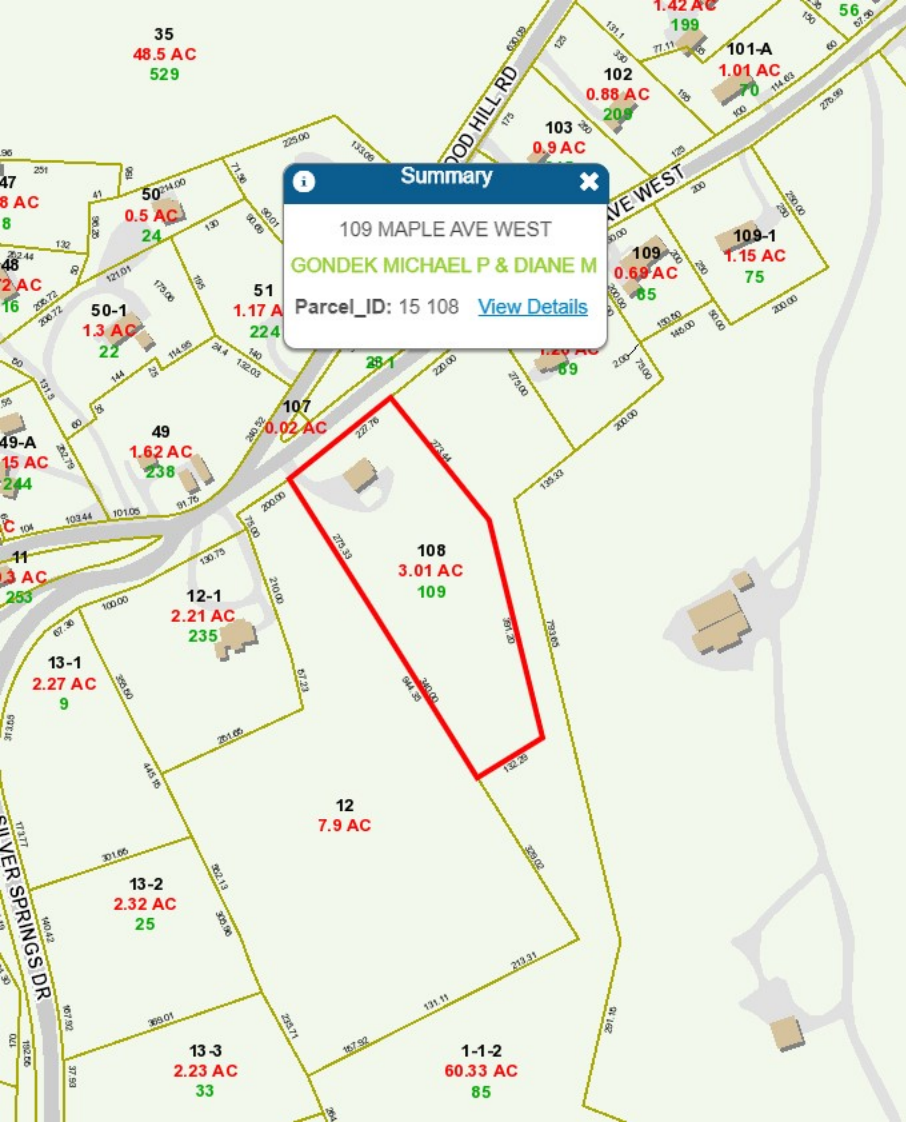
Owner History - Sales

Owner Name	Volume	Page	Sale Date	Deed Type	Valid Sale	Sale Price
GONDEK MICHAEL P & DIANE M	0373	0540	06/29/2015	Quit Claim	Yes	\$271,000
DAMICO LOUIS W SR + LOUIS W JR TRUSTEES	0336	0559	04/05/2010		No	\$0
DAMICO LOUIS W SR + LOUIS W JR	0305	0805	10/10/2006		No	\$0
DAMICO LOUIS W & MARJORY C DAMICO FAMILY	0256	0789	01/27/2003		No	\$0
DAMICO LOUIS W	0233	1040	12/21/2000		No	\$0

Building Permits

Permit Number	Permit Type	Date Opened	Date Closed	Permit Status	Reason
11400	Addition	12/31/2012			3 ANTENNAS+SUPPORT EQPT/1 CABINET TO EXST SHELTER
6366	Unknown	03/30/1999			NEW BUILDING, VEHICLE STORAGE

Information Published With Permission From The Assessor



Summary

109 MAPLE AVE WEST
GONDEK MICHAEL P & DIANE M
Parcel_ID: 15 108 [View Details](#)

35
48.5 AC
529

102
0.88 AC
205

101-A
1.01 AC
70

50
0.5 AC
24

103
0.9 AC

50-1
1.3 AC
22

51
1.17 AC
224

109
0.69 AC
85

109-1
1.15 AC
75

49-A
1.5 AC
244

49
1.62 AC
238

11
3 AC
253

13-1
2.27 AC
9

12-1
2.21 AC
235

108
3.01 AC
109

12
7.9 AC

13-2
2.32 AC
25

13-3
2.23 AC
33

1-1-2
60.33 AC
85

Exhibit C

Construction Drawings



AT&T SITE NUMBER: CT5386 **BUSINESS UNIT #:** 806367
AT&T SITE NAME: HADDAM NORTH CENTRAL **SITE ADDRESS:** 109 MAPLE AVE
AT&T FA CODE: 10091802 **HIGGANUM, CT 06441**
AT&T PACE NUMBER: MRCTB047307 **COUNTY:** MIDDLESEX
SITE TYPE: MONOPOLE **TOWER HEIGHT:** 115'-6"

PROJECT: AT&T LTE 5C



AT&T SITE NUMBER:
CT5386

BU #: 806367
HRT 046 943209

109 MAPLE AVE
HIGGANUM, CT 06441

EXISTING 115'-6"
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	6/17/20	STH	CONSTRUCTION	FWP
1	7/11/20	GEH	CONSTRUCTION	GEH
2	8/3/20	JJD	CONSTRUCTION	FWP

SITE INFORMATION

CROWN CASTLE USA INC. HRT 046 943209
SITE NAME: HADDAM NORTH CENTRAL
SITE ADDRESS: 109 MAPLE AVE, HIGGANUM, CT 06441
COUNTY: MIDDLESEX
AREA OF CONSTRUCTION: EXISTING
LATITUDE: 41.484594
LONGITUDE: -72.572447
LAT/LONG TYPE: NAD83
OCCUPANCY CLASSIFICATION: U
TYPE OF CONSTRUCTION: IIB
A.D.A. COMPLIANCE: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
TOWER OWNER: CROWN CASTLE, 2000 CORPORATE DRIVE, CANONSBURG, PA 15317
CARRIER/APPLICANT: AT&T MOBILITY, ONE AT&T WAY, BEDMINSTER, NJ 07921
CROWN CASTLE USA INC.
APPLICATION ID: 517104

DRAWING INDEX

SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1	SITE PLAN
C-2	EQUIPMENT PLAN
C-2.1	CABINET DETAILS
C-3	TOWER ELEVATIONS
C-4	ANTENNA ORIENTATION
C-5	ANTENNA SCHEDULE
C-6	ANTENNA AND RRH SPECS.
C-7	ANTENNA AND RRH DETAIL
C-8	PLUMBING DIAGRAM
C-9	COLOR CODE STANDARD
G-1	GROUNDING DETAILS
G-2	GROUNDING DETAILS

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.

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO PROPOSE AN ANTENNA MODIFICATION ON AN EXISTING WIRELESS SITE.

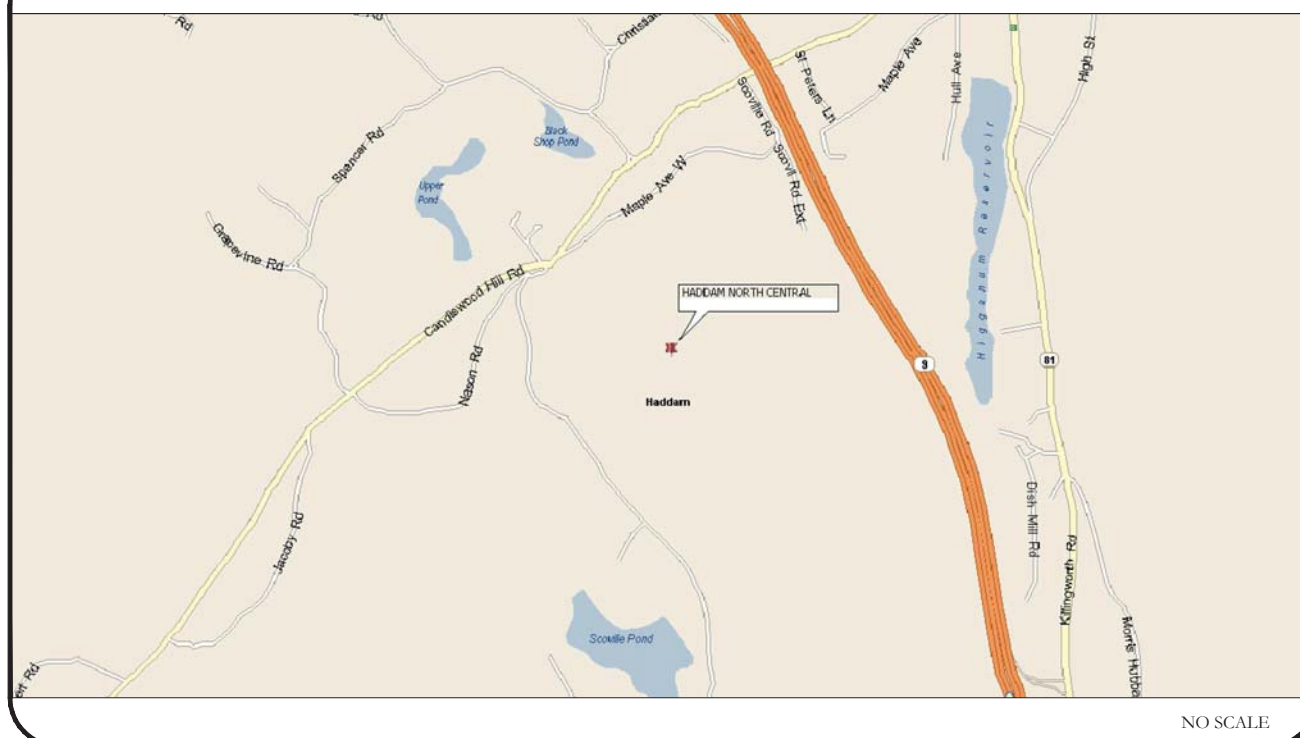
TOWER SCOPE OF WORK
 • RELOCATE (3) ERICSSON 8843 B2/B66A RRHS

GROUND SCOPE OF WORK
 • INSTALL (3) ERICSSON 4478 B14 RRHS
 • INSTALL (1) IDLe
 • INSTALL (1) PURCELL FLX12-2420 CABINET

DESIGN PACKAGE BASED ON THE RFDS
 REVISION: 1.00
 DATE: 3/25/20

DESIGN PACKAGE BASED ON THE APPLICATION
 ID: 517104
 REVISION: 0

LOCATION MAP



APPLICABLE CODES/REFERENCE DOCUMENTS

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

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

REFERENCE DOCUMENTS:
 STRUCTURAL ANALYSIS:

MOUNT ANALYSIS: TOWER ENGINEERING PROFESSIONALS
 APRIL 23, 2020

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



CALL CONNECTICUT ONE CALL
 (800) 922-4455
 CALL 3 WORKING DAYS
 BEFORE YOU DIG!



B&T ENGINEERING, INC.
 PEC.0001564
 Expires 2/10/21

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:** 2

T-1 2

SITE WORK GENERAL NOTES:

- 1. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING CAIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION.
3. ALL SITE WORK TO COMPLY WITH QAS-STD-10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE" AND LATEST VERSION OF TIA 1019 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."
4. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS.
5. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
6. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.
7. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
8. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
9. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
10. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
11. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE PROJECT SPECIFICATIONS.
12. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
13. NOTICE TO PROCEED- NO WORK TO COMMENCE PRIOR TO COMPANY'S WRITTEN NOTICE TO PROCEED AND THE ISSUANCE OF A PURCHASE ORDER.
14. ALL CONSTRUCTION MEANS AND METHODS, INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND CROWN STANDARD CED-STP-10253 INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH THE ANSI/TIA-322 (LATEST EDITION).

STRUCTURAL STEEL NOTES:

- 1. ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A36 UNLESS OTHERWISE NOTED.
2. BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE (3/4") CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
3. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" ASTM A307 BOLTS UNLESS NOTED OTHERWISE.
4. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS.

CONCRETE AND REINFORCING STEEL NOTES:

- 1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. SLAB FOUNDATION DESIGN ASSUMING ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
CONCRETE CAST AGAINST EARTH.....3 IN.
CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 AND LARGER.....2 IN.
#5 AND SMALLER & WWF.....1 1/2 IN.
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
SLAB AND WALLS.....3/4 IN.
BEAMS AND COLUMNS.....1 1/2 IN.
5. A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

MASONRY NOTES:

- 1. HOLLOW CONCRETE MASONRY UNITS SHALL MEET A.S.T.M. SPECIFICATION C90, GRADE N. TYPE 1. THE SPECIFIED DESIGN COMPRESSIVE STRENGTH OF CONCRETE MASONRY (F'm) SHALL BE 1500 PSI.
2. MORTAR SHALL MEET THE PROPERTY SPECIFICATION OF A.S.T.M. C270 TYP. "S" MORTAR AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
3. GROUT SHALL MEET A.S.T.M. SPECIFICATION C475 AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2000 PSI.
4. CONCRETE MASONRY SHALL BE LAID IN RUNNING (COMMON) BOND.
5. WALL SHALL RECEIVE TEMPORARY BRACING. TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL GROUT IS FULLY CURED.

GENERAL NOTES:

- 1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR- GENERAL CONTRACTOR (CONSTRUCTION)
SUBCONTRACTOR- AT&T
CARRIER- AT&T
TOWER OWNER- CROWN CASTLE USA INC.
OEM- ORIGINAL EQUIPMENT MANUFACTURER
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR AND CROWN CASTLE USA INC.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO SCALE AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR AND CROWN CASTLE USA INC. PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWINGS.
10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

ABBREVIATIONS AND SYMBOLS:

ABBREVIATIONS:

AGL ABOVE GRADE LEVEL
BTS BASE TRANSCIEVER STATION
EXISTING EXISTING
MIN. MINIMUM
REF REFERENCE
RF RADIO FREQUENCY
T.B.D. TO BE DETERMINED
T.B.R. TO BE RESOLVED
TYP TYPICAL
REQ REQUIRED
EGR EQUIPMENT GROUND RING
AWG AMERICAN WIRE GAUGE
MGB MASTER GROUND BAR
EG EQUIPMENT GROUND
BCW BARE COPPER WIRE
SIAD SMART INTEGRATED ACCESS DEVICE
GEN GENERATOR
IGR INTERIOR GROUND RING (HALO)
RBS RADIO BASE STATION

SYMBOLS:

ES/G+ SOLID GROUND BUS BAR
ES/N+ SOLID NEUTRAL BUS BAR
SUPPLEMENTAL GROUND CONDUCTOR
2-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
SINGLE-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
CHEMICAL GROUND ROD
TEST WELL
DISCONNECT SWITCH
METER
EXOTHERMIC WELD (CADWELD) (UNLESS OTHERWISE NOTED)
MECHANICAL CONNECTION
GROUNDING WIRE

ELECTRICAL INSTALLATION NOTES:

- 1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
2. CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC. HILTI EPOXY ANCHORS ARE REQUIRED BY CROWN CASTLE USA INC.
4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
5. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
6. EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL), THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH PLASTIC TAPE PER COLOR SCHEDULE. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (I.E. PANEL BOARD AND CIRCUIT ID'S).
8. PANEL BOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
9. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
10. POWER, CONTROL AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET & DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED UNLESS OTHERWISE SPECIFIED.
11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED UNLESS OTHERWISE SPECIFIED.
12. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION WITH OUTER JACKET LISTED OR LABELED FOR THE LOCATION USED UNLESS OTHERWISE SPECIFIED.
13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75° C (90° C IF AVAILABLE).
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
15. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E. RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
16. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT) OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
17. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
18. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
21. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER).
22. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHIN ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.
23. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL; SHALL MEET OR EXCEED UL 50 AND RATED NEMA 1 (OR BETTER) INDOORS OR NEMA 3R (OR BETTER) OUTDOORS.
24. METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
25. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
26. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
27. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
28. INSTALL PLASTIC LABEL ON THE METER CENTER TO SHOW "AT&T".
29. ALL CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

GREENFIELD GROUNDING NOTES:

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

Table with 3 columns: DESCRIPTION, PHASE/CODE LETTER, WIRE COLOR. Rows include 240/120 1Ø (LEG 1 BLACK, LEG 2 RED), AC NEUTRAL (N WHITE, G GREEN), VDC POS (+ *RED-POLARITY MARK AT TERMINATION), VDC NEG (- *BLACK-POLARITY MARK AT TERMINATION), 240V OR 208V, 3Ø (PHASE A BLACK, PHASE B RED(ORG. IF HI LEG), PHASE C BLUE), 480V, 3Ø (PHASE A BROWN, PHASE B ORANGE OR PURPLE, PHASE C YELLOW).

* SEE NEC 210.5(C)(1) AND (2)



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1717 S BOULDER
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PH: (918) 587-4630
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AT&T SITE NUMBER:
CT5386

BU #: 806367
HRT 046 943209

109 MAPLE AVE
HIGGANUM, CT 06441

EXISTING 115'-6"
MONOPOLE

ISSUED FOR:

Table with 5 columns: REV, DATE, DRWN, DESCRIPTION, DES./QA. Rows show revisions 0, 1, 2 with dates 6/17/20, 7/11/20, 8/3/20 and descriptions like STH, GEH, JJD.



B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/21

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SHEET NUMBER: REVISION:

T-2 2

AT&T SITE NUMBER:
CT5386

BU #: 806367
HRT 046 943209

109 MAPLE AVE
HIGGANUM, CT 06441

EXISTING 115'-6"
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	6/17/20	STH	CONSTRUCTION	FWP
1	7/11/20	GEH	CONSTRUCTION	GEH
2	8/3/20	JJD	CONSTRUCTION	FWP

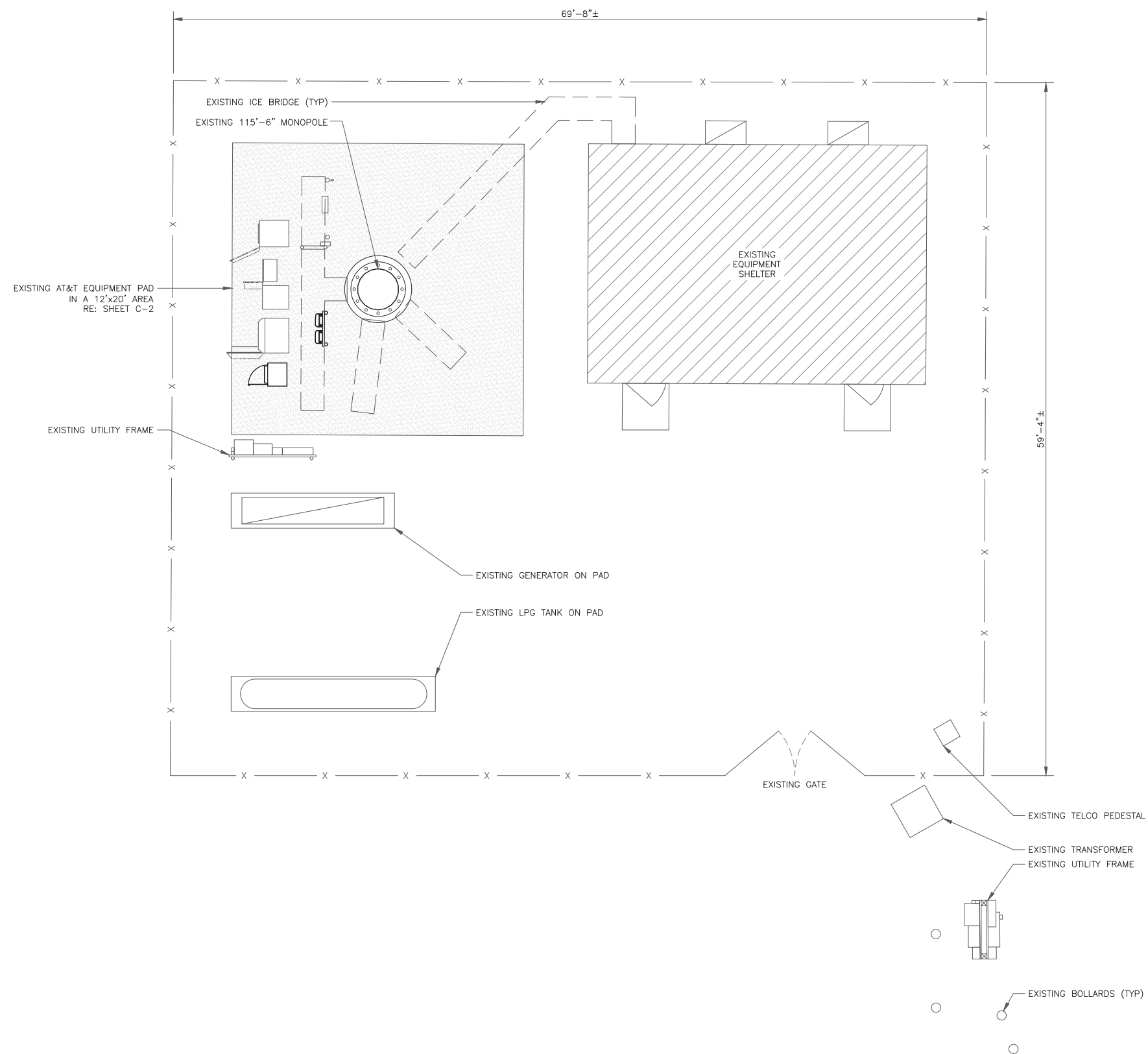


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SHEET NUMBER: REVISION:

C-1 2



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



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AT&T SITE NUMBER:
CT5386

BU #: **806367**
HRT **046 943209**

109 MAPLE AVE
HIGGANUM, CT 06441

EXISTING 115'-6"
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	6/17/20	STH	CONSTRUCTION	FWP
1	7/11/20	GEH	CONSTRUCTION	GEH
2	8/3/20	JJD	CONSTRUCTION	FWP



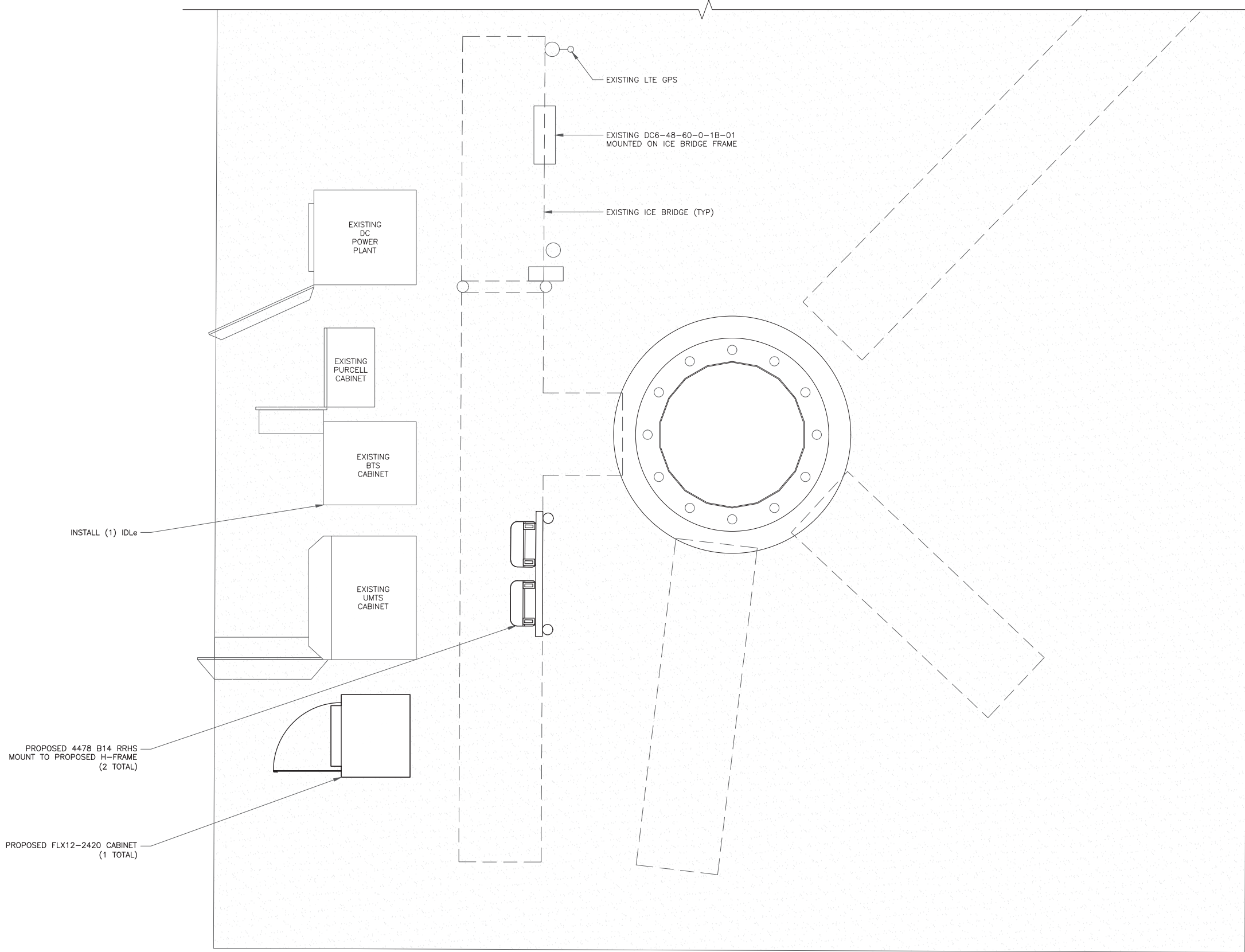
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SHEET NUMBER: REVISION:

C-2

2



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



1:42974_806367_HRT_046_943209.dwg - Sheet:C-2 - User: fperkins - Aug 03, 2020 - 12:30pm

FlexSure® FLX12-2420

Power and Equipment Enclosure Solutions



Purcell System's Flexible Enclosure (FlexSure®) solution architecture allows the rapid creation and growth of virtually any outdoor cabinet configuration by leveraging pre-engineered common interchangeable components. The FlexSure® series is available in 12, 16, 20, 25, and 36 RU equipment bay options.

FlexSure® enclosures are UL 508 Listed, and certified by independent third-party Nationally Recognized Testing Laboratories to Telcordia GR-487. A wide range of thermal management system technologies and capacities ensures that the equipment you deploy in the cabinet will operate within its design parameters with the highest reliability and lowest Total Cost of Ownership. Options include battery backup, AC/DC power termination and distribution, cross connect and line protection, equipment and enclosure mounting features.

Applications

Provides a secure, thermally-controlled environment for any electronic equipment supporting a wide-range of Cable/MSO, Energy/Utility, Land Mobile Radio, Transportation, U.S. Government/Military, and Wireless and Wireline Telecommunication applications.

Product Features:

- Telcordia GR-487 certified, UL508 Listed
- Highly flexible and scalable
- Energy efficient advanced thermal solutions
- Field upgradeable
- AC and DC power options
- Pad, pole, wall, H-frame mounting options



The Purcell Advantage

Purcell Systems designs and manufactures thermally-managed outdoor enclosures that meet the exact needs of the enclosed equipment for network operators and utilities. Our enclosures provide comparable solutions to prefabricated buildings, containers and shelters at a fraction of the cost. Both standard and custom enclosures are delivered with the following capabilities:

Choice of Options: Pre-engineered and interchangeable modules provide optimal configurations with minimal cost and lead time.

Thermal Management: The industry's widest selection of heating and cooling systems ensures the most efficient thermal management solution with the lowest energy consumption.

Lowest Total Cost of Ownership: Engineering analysis and modeling ensures your enclosure configuration minimizes installation, maintenance, repair, capital, and operational expenses.

Equipment Integration and Staging: Electronic equipment can be staged and installed in our enclosures prior to final deployment and installation.

Fanatical Service®: A national service organization with 24/7/365 access means procurement, installation, support, and warranty requests are addressed immediately.

FlexSure® FLX12-2420

Dimensions and Expansion Options		Thermal Management Systems			
Exterior Dimensions		Rack Units	Air Conditioner	Heat Exchanger	Thermoelectric Cooler
No plinth	24"W x 20"D x 23"H 610mm x 508mm x 584mm	12RU	2K BTU/585W with 500W heater	39 W/°C 741W	400W with heater
4" plinth	24"W x 20"D x 27"H 610mm x 508mm x 686mm				
14" plinth	24"W x 20"D x 37"H 610mm x 508mm x 940mm				
13" Battery Base	24"W x 20"D x 36"H 610mm x 508mm x 914mm				

Specifications		
EXTERIOR	Mounting Options	Other Options
Construction	<ul style="list-style-type: none"> • Anchor Plate Kit for Concrete Pad Mounting • Pole Mount Kit • Wall or H-Frame Mount Kit • Plinth: 4" or 14" Height, standard footprint • Corrosion inhibiting pad gasket • Stack on FLX16-2520 or FLX12-2420 for increased capacity in same footprint 	<ul style="list-style-type: none"> • Convenience Outlets: 15 or 20A, GFCI or standard • Bonding and Grounding: Copper isolated or integrated, up to 15 positions • Alarm Blocks: Up to 16 positions (includes intrusion and thermal alarms) • 400 Watts -48VDC Heater ; 240 Watts +24VDC heater • 6" high demark box • Cable access box (with battery pedestal) • Side chamber optional (left side) • Accessories: Optical fiber storage, Service light , document holder, equipment security partitions
<ul style="list-style-type: none"> • Frame: 0.125" Corrosion Resistant Aluminum; single wall construction • Finish: Ultra-light gray polyester powder coat • Weight (Base Configuration): 82 lbs 	<ul style="list-style-type: none"> • Door/Side/Top Panels • Doors: Front and rear doors, left or right open; rear hatch • Door Handles: Pad-lockable • Door Hinges: Hidden hinges 	
Cable Entry	<ul style="list-style-type: none"> • Ingress/Egress: Knockouts on bottom/sides 	<ul style="list-style-type: none"> • Second set of 19" 12RU equipment rails optional
Battery Pedestal	<ul style="list-style-type: none"> • Ventilated compartment • 13" Height; Supports up to (4) 100Ahr 12 Volt batteries • Battery heater mat: 130 Watts • Compatible with pad, pole, or wall/H-frame mount 	<ul style="list-style-type: none"> • AC Power Termination and Distribution • Load Center Location: internal to equipment bay • 6-12 position internal load centers • Up to 30 Amp Main Breaker • Surge Protection Device (SPD) • Generator Cable - 15 Amp
Side Chamber	<ul style="list-style-type: none"> • Side chamber: left side, 12" depth 	<ul style="list-style-type: none"> • DC Power Systems and Distribution • Multiple suppliers and configurations available • DC Distribution: Up to 20 positions
		<ul style="list-style-type: none"> • Agency Compliance • Telcordia GR-487 Issue 2, Issue 3 Optional • UL Listed - UL508A • NEMA 3R
		<ul style="list-style-type: none"> • Environmental • IP Protection: Designed to IP 54 • Maximum Earthquake Risk Zone-4 (as per Telcordia GR-63)
		<ul style="list-style-type: none"> • Warranty • 5 Years on Enclosure, 1 Year on Thermal System



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www.purcellsystems.com

FLX12-2420 2014-12-22
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AT&T SITE NUMBER:
CT5386

BU #: **806367**
HRT 046 943209

109 MAPLE AVE
HIGGANUM, CT 06441

EXISTING 115'-6"
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	6/17/20	STH	CONSTRUCTION	FWP
1	7/11/20	GEH	CONSTRUCTION	GEH
2	8/3/20	JJD	CONSTRUCTION	FWP



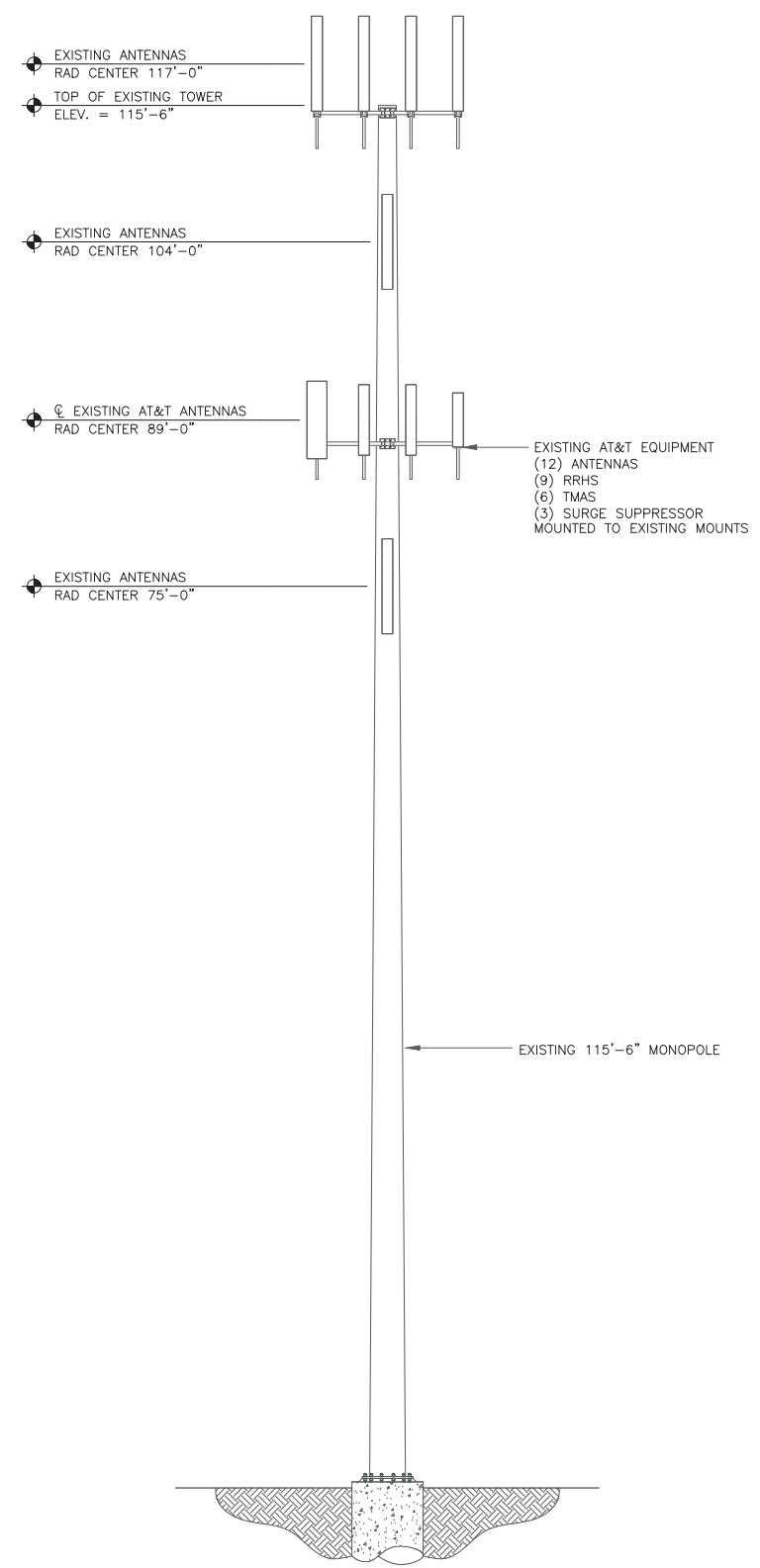
B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/21

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SHEET NUMBER: REVISION:

C-2.1 **2**

AT&T EQUIPMENT
 ANTENNA CL: 89'-0"
 MOUNT CL: 89'-0"



1 EXISTING ELEVATION
 SCALE: NOT TO SCALE

AT&T
 ONE AT&T WAY
 BEDMINSTER, NJ 07921

CROWN CASTLE
 3200 HORIZON DRIVE, SUITE 150
 KING OF PRUSSIA, PA 19406

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

AT&T SITE NUMBER:
CT5386

BU #: 806367
 HRT 046 943209

109 MAPLE AVE
 HIGGANUM, CT 06441

EXISTING 115'-6"
 MONOPOLE

ISSUED FOR:

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SHEET NUMBER: **C-3** REVISION: **2**

1:42974_806367_HRT_046_943209.dwg - Sheet: C-3 - User: fperkins - Aug 03, 2020 - 12:30pm



AT&T SITE NUMBER:
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109 MAPLE AVE
HIGGANUM, CT 06441

EXISTING 115'-6"
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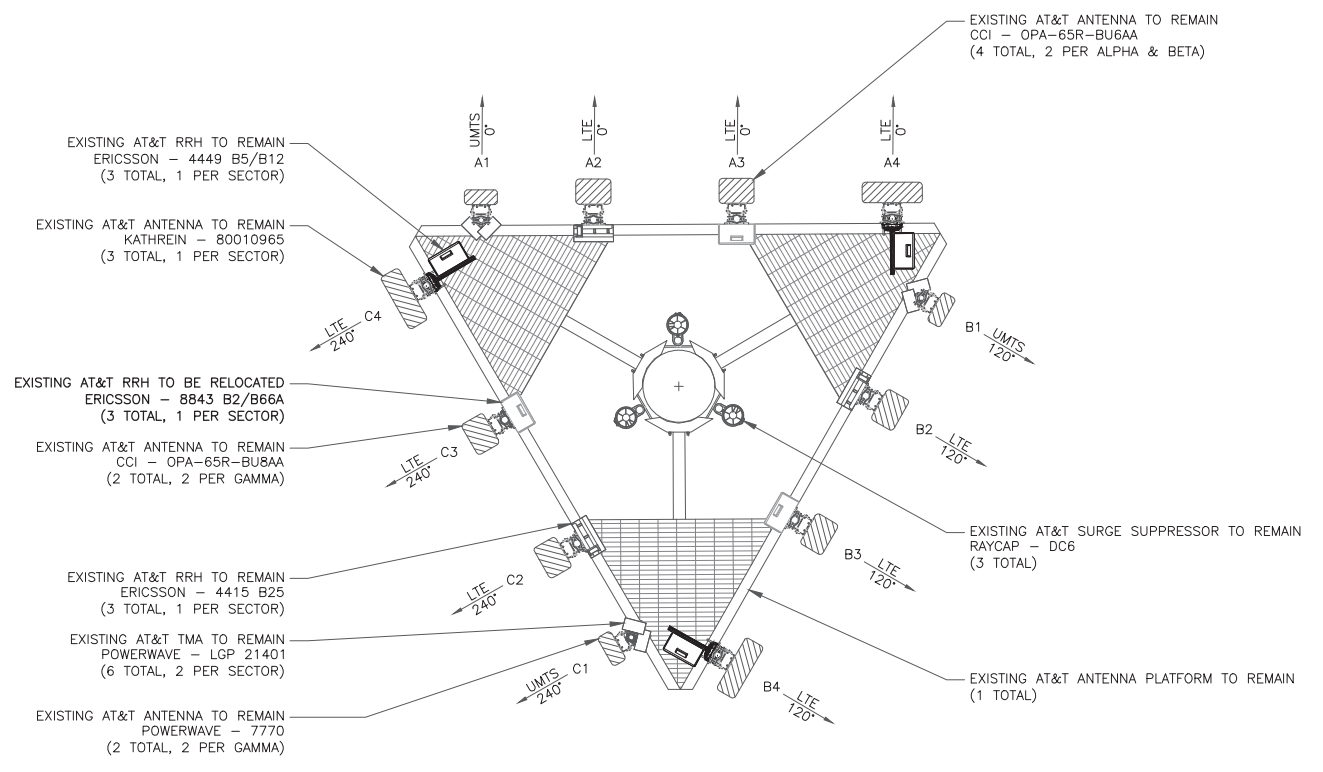


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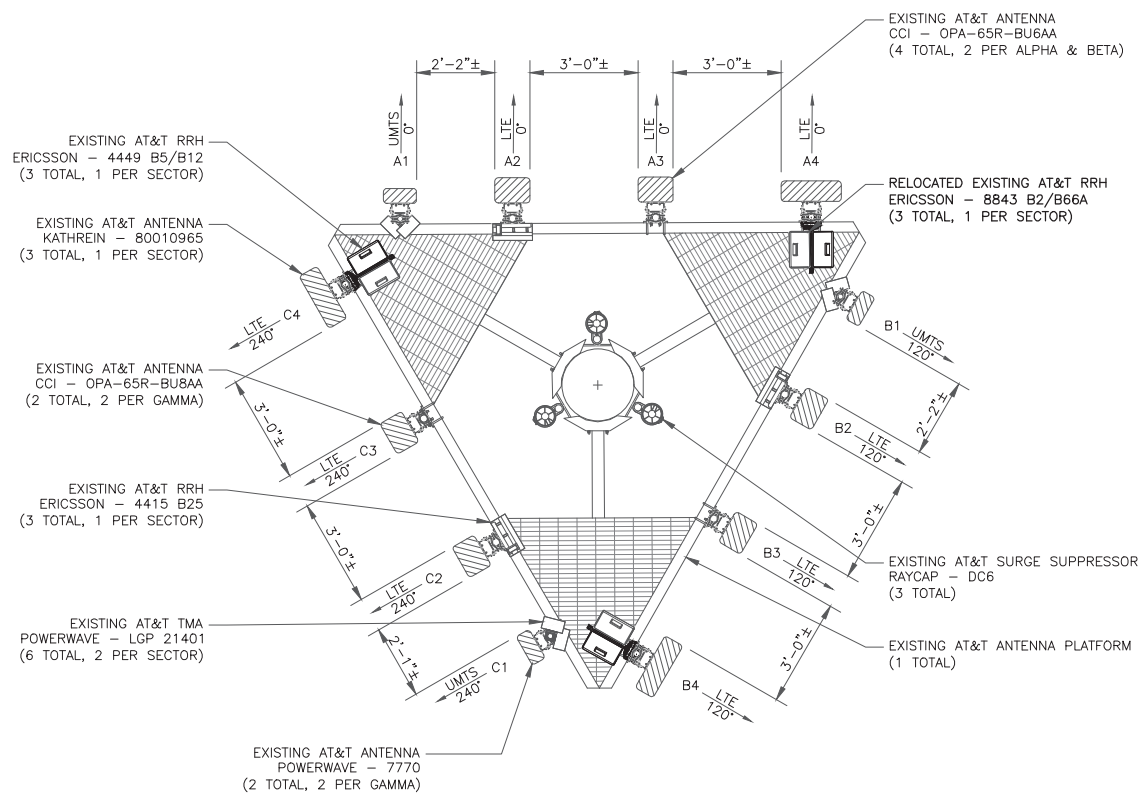
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SHEET NUMBER: REVISION:

C-4 **2**

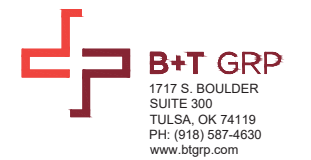


1 EXISTING ANTENNA LAYOUT
SCALE: 3/8"=1'-0" (FULL SIZE)
3/16"=1'-0" (11x17)



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

142974_806367_HRT_046_943209.dwg - Sheet: C-4 - User: fperkins - Aug 03, 2020 - 12:30pm



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BU #: **806367**
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109 MAPLE AVE
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EXISTING 115'-6"
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SHEET NUMBER: **C-5** REVISION: **2**

FINAL ANTENNA AND COAXIAL CABLE 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	RAYCAP	DC (WR-VG86ST-BRD) FIBER CABLES (FB-L98B-034-XXXXXX)	RRHS	DIPLEXER	RET CABLE
ALPHA SECTOR																
A1	UMTS	EXISTING	0°	POWERWAVE 7770	89'-0"	0°	6°	7/8"	100'-0"	4	(2) LGP 21401	DC6-48-60-18-8F	(1) FIBER (2) DC LINES	-	-	-
A2	LTE	EXISTING	0°	CCI HPA-65R-BU6AA	89'-0"	0°	2°	-	-	-	-			(1) 4415 B25	-	-
A3	LTE	EXISTING	0°	CCI HPA-65R-BU6AA	89'-0"	0°	3/2°	-	-	-	-			(1) 4478 B14 (GROUND)	-	-
A4	LTE	EXISTING	0°	KATHREIN 80010965	89'-0"	0°	3°/3°/3°/3°	-	-	-	-			(1) 4449 B5/B12 (1) 8843 B2/B66A	-	-
BETA SECTOR																
B1	UMTS	EXISTING	120°	POWERWAVE 7770	89'-0"	0°	4°	7/8"	100'-0"	4	(2) LGP 21401	DC6-48-60-18-8F	(1) FIBER (2) DC LINES	-	-	-
B2	LTE	EXISTING	120°	CCI HPA-65R-BU6AA	89'-0"	0°	6°	-	-	-	-			(1) 4415 B25	-	-
B3	LTE	EXISTING	120°	CCI HPA-65R-BU6AA	89'-0"	0°	6°/6°	-	-	-	-			(1) 4478 B14 (GROUND)	-	-
B4	LTE	EXISTING	120°	KATHREIN 80010965	89'-0"	0°	6°/6°/6°/6°	-	-	-	-			(1) 4449 B5/B12 (1) 8843 B2/B66A	-	-
GAMMA SECTOR																
C1	UMTS	EXISTING	240°	POWERWAVE 7770	89'-0"	0°	2°	7/8"	100'-0"	4	(2) LGP 21401	DC6-48-60-18-8F	(1) FIBER (2) DC LINES	-	-	-
C2	LTE	EXISTING	240°	CCI HPA-65R-BU8AA	89'-0"	0°	2°	-	-	-	-			(1) 4415 B25	-	-
C3	LTE	EXISTING	240°	CCI HPA-65R-BU8AA	89'-0"	0°	2°/2°	-	-	-	-			(1) 4478 B14 (GROUND)	-	-
C4	LTE	EXISTING	240°	KATHREIN 80010965	89'-0"	0°	1°/2°/3°/2°	-	-	-	-			(1) 4449 B5/B12 (1) 8843 B2/B66A	-	-

NOTE: BOLD DENOTES NEW EQUIPMENT

1 FINAL ANTENNA AND COAXIAL CABLE SCHEDULE
SCALE: NOT TO SCALE

1:42974_806367_HRT_046_943209.dwg - Sheet: C-5 - User: fperkins - Aug 03, 2020 - 12:30pm



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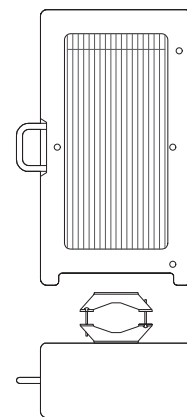
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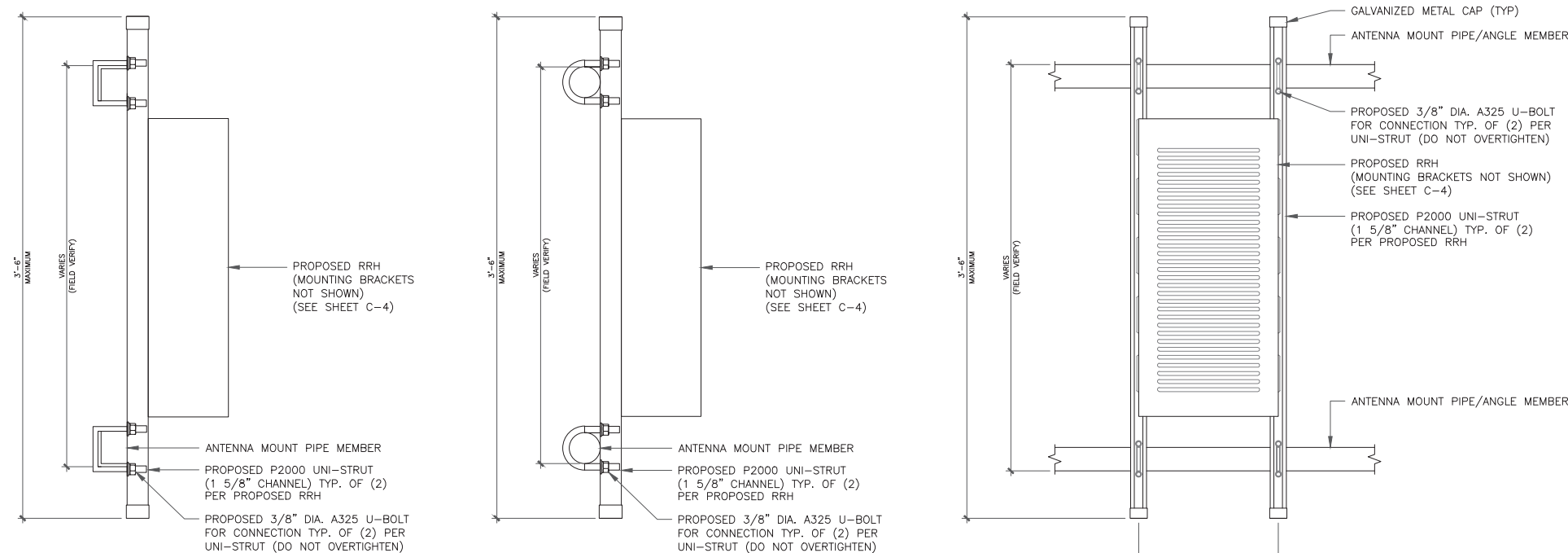
C-6

2



ERICSSON - 4478 B14
WEIGHT (FULLY EQUIPPED): 59.4 LBS
SIZE (HxWxD): 18.1x13.4x8.26 IN.

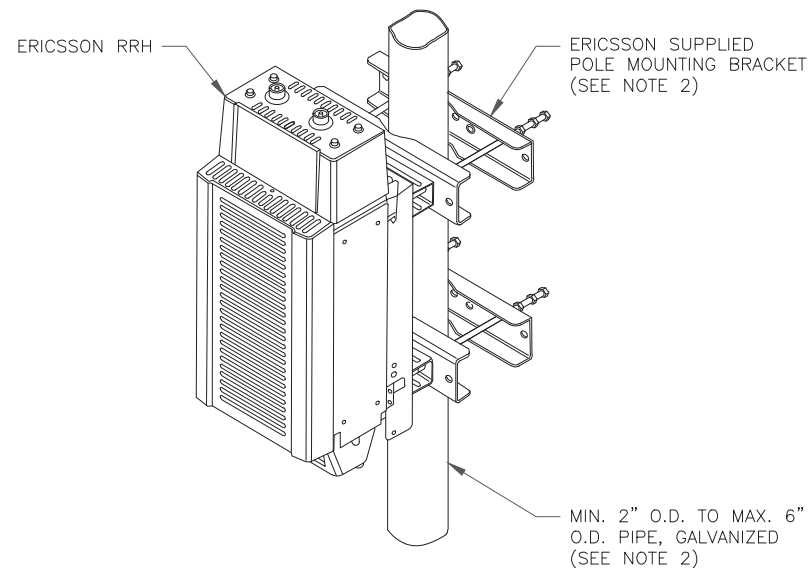
1 RRH DETAIL
SCALE: NOT TO SCALE



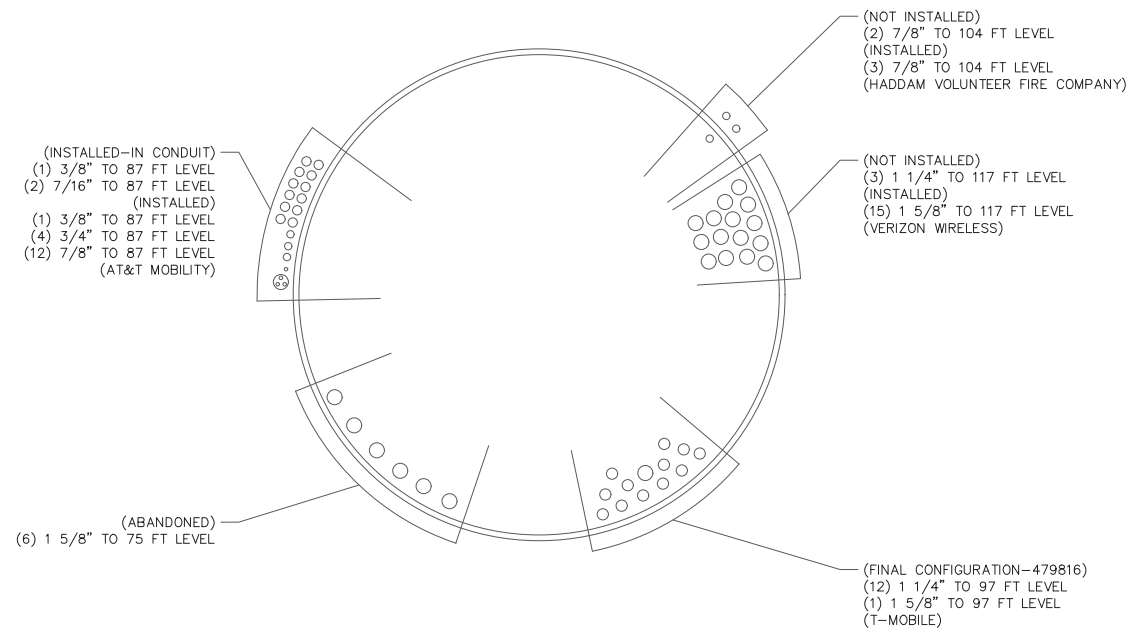
2 RRH UNISTRUT H-FRAME MOUNTING DETAILS
SCALE: N.T.S.

NOTES:

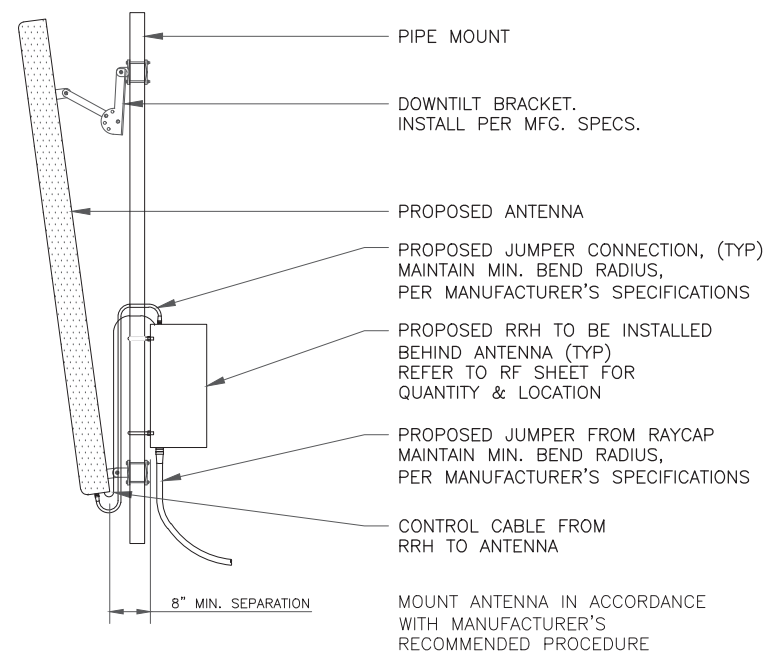
- ERICSSON VIA AT&T SUPPLIES RRH, RRH POLE-MOUNTING BRACKET. SUBCONTRACTOR SHALL SUPPLY POLE/PIPE AND INSTALL ALL MOUNTING HARDWARE INCLUDING ERICSSON RRH POLE-MOUNTING BRACKET. ERICSSON INSTALLS RRH AND MAKES CABLE TERMINATIONS.
- FOR POLE DIAMETERS FROM 6" TO 15", ERICSSON CAN SUPPLY A PAIR OF POLE MOUNTING METAL BANDS WITH BOLTING WELDMENT.
- NO PAINTING OF THE RRH OR SOLAR SHIELD IS ALLOWED



1 RRH MOUNTING DETAIL
SCALE: NOT TO SCALE



2 BASE LEVEL DRAWING
SCALE: NOT TO SCALE



3 ANTENNA MOUNTING DETAIL
SCALE: NOT TO SCALE



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SHEET NUMBER: REVISION:

C-7 2

Diagram - Sector A Diagram File Name - FN_5G NR_CT5386_A-B-C_LTE5C_R1.0.vsd
 Atoll Site Name - CT5386 Location Name - HADDAM NORTH CENTRAL 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"



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ISSUED FOR:

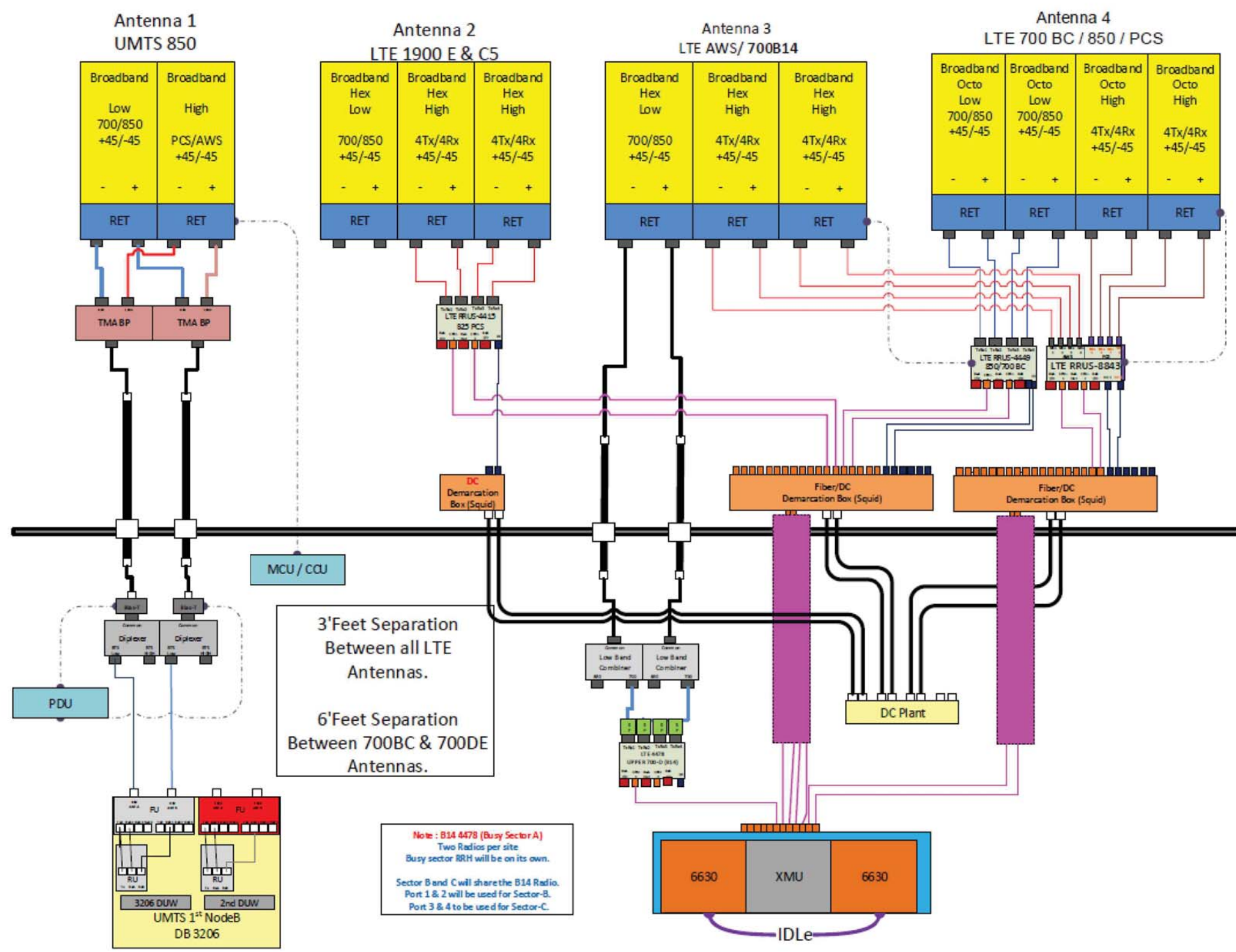
REV	DATE	DRWN	DESCRIPTION	DES./QA
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SHEET NUMBER: **C-8** REVISION: **2**



3' Feet Separation Between all LTE Antennas.
 6' Feet Separation Between 700BC & 700DE Antennas.

Note: B14 4478 (Busy Sector A)
 Two Radios per site.
 Busy sector RRH will be on its own.
 Sector Band C will share the B14 Radio.
 Port 1 & 2 will be used for Sector-B.
 Port 3 & 4 to be used for Sector-C.

1 PLUMBING DIAGRAM
 SCALE: NOT TO SCALE

142974_806367_HRT_046_943209.dwg - Sheet: C-8 - User: fperkins - Aug 03, 2020 - 12:30pm

SECTOR	TECHNOLOGY	FREQUENCY BAND	COLOR CODE - SECTOR DESIGNATION FOR SECTOR SPLIT	COLOR CODE - SECTOR (AMOUNT OF BANDS BASED ON POSITION)	COLOR CODE - FREQUENCY	45 + COAX	45 - COAX
A	LTE	700 (B/C)	BLANK	GREEN	VIOLET	YELLOW	BLANK
A	LTE	850	BLANK	GREEN	YELLOW	YELLOW	BLANK
A	LTE	850 - 2ND BLOCK	BLANK	GREEN	YELLOW	YELLOW	BLANK
A	LTE	1900 (PCS)	BLANK	GREEN	RED	RED	BLANK
A	LTE	1900 (PCS) - 2ND BLOCK	BLANK	GREEN	RED	RED	BLANK
A	LTE	2100 (AWS)	BLANK	GREEN	ORANGE	ORANGE	BLANK
A	LTE	2100 (AWS) - 2ND BLOCK	BLANK	GREEN	ORANGE	ORANGE	BLANK
A	LTE	2300 (WCS)	BLANK	GREEN	SLATE	SLATE	BLANK
A	LTE	2300 (WCS) - 2ND BLOCK	BLANK	GREEN	SLATE	SLATE	BLANK
A	LTE	2300 (WCS) - SW REPEATER	BLANK	GREEN	BROWN	BROWN	BLANK
A	LTE	700 (D/E)	BLANK	GREEN	VIOLET	BLUE	BLANK
A	LTE	700 FIRSTNET	BLANK	GREEN	BROWN	BROWN	BLANK
A	LTE	700 (B/C) / 700 FIRSTNET (DUAL RRH)	BLANK	GREEN	VIOLET	BLUE	BLANK
A	LTE	1900 (PCS) / 2100 (AWS) (DUAL RRH)	BLANK	GREEN	RED	ORANGE	BLANK
A	LTE	8500 / 700 D/E (DUAL RRH)	BLANK	GREEN	YELLOW	SLATE	BLANK
A - SPLIT	LTE	700 (B/C)	GREEN	ORANGE	VIOLET	YELLOW	BLANK
A - SPLIT	LTE	850	GREEN	ORANGE	YELLOW	YELLOW	BLANK
A - SPLIT	LTE	850 - 2ND BLOCK	GREEN	ORANGE	YELLOW	YELLOW	BLANK
A - SPLIT	LTE	1900 (PCS)	GREEN	ORANGE	RED	RED	BLANK
A - SPLIT	LTE	1900 (PCS) - 2ND BLOCK	GREEN	ORANGE	RED	RED	BLANK
A - SPLIT	LTE	2100 (AWS)	GREEN	ORANGE	ORANGE	ORANGE	BLANK
A - SPLIT	LTE	2100 (AWS) - 2ND BLOCK	GREEN	ORANGE	ORANGE	ORANGE	BLANK
A - SPLIT	LTE	2300 (WCS)	GREEN	ORANGE	SLATE	SLATE	BLANK
A - SPLIT	LTE	2300 (WCS) - 2ND BLOCK	GREEN	ORANGE	BROWN	BROWN	BLANK
A - SPLIT	LTE	2300 (WCS) - SW REPEATER	GREEN	ORANGE	BROWN	BROWN	BLANK
A - SPLIT	LTE	700 (D/E)	GREEN	ORANGE	BROWN	BROWN	BLANK
A - SPLIT	LTE	700 FIRSTNET	GREEN	ORANGE	BROWN	BROWN	BLANK
A - SPLIT	LTE	700 (B/C) / 700 FIRSTNET (DUAL RRH)	GREEN	ORANGE	VIOLET	BLUE	BLANK
A - SPLIT	LTE	1900 (PCS) / 2100 (AWS) (DUAL RRH)	GREEN	ORANGE	RED	ORANGE	BLANK
A - SPLIT	LTE	8500 / 700 D/E (DUAL RRH)	GREEN	ORANGE	YELLOW	SLATE	BLANK
B	LTE	700 (B/C)	BLANK	BLUE	VIOLET	YELLOW	BLANK
B	LTE	850	BLANK	BLUE	YELLOW	YELLOW	BLANK
B	LTE	850 - 2ND BLOCK	BLANK	BLUE	YELLOW	YELLOW	BLANK
B	LTE	1900 (PCS)	BLANK	BLUE	YELLOW	RED	BLANK
B	LTE	1900 (PCS) - 2ND BLOCK	BLANK	BLUE	YELLOW	RED	BLANK
B	LTE	2100 (AWS)	BLANK	BLUE	ORANGE	ORANGE	BLANK
B	LTE	2100 (AWS) - 2ND BLOCK	BLANK	BLUE	ORANGE	ORANGE	BLANK
B	LTE	2300 (WCS)	BLANK	BLUE	SLATE	SLATE	BLANK
B	LTE	2300 (WCS) - 2ND BLOCK	BLANK	BLUE	BROWN	BROWN	BLANK
B	LTE	2300 (WCS) - SW REPEATER	BLANK	BLUE	BROWN	BROWN	BLANK
B	LTE	700 (D/E)	BLANK	BLUE	VIOLET	BLUE	BLANK
B	LTE	700 FIRSTNET	BLANK	BLUE	BROWN	BROWN	BLANK
B	LTE	700 (B/C) / 700 FIRSTNET (DUAL RRH)	BLANK	BLUE	VIOLET	BLUE	BLANK
B	LTE	1900 (PCS) / 2100 (AWS) (DUAL RRH)	BLANK	BLUE	RED	ORANGE	BLANK
B	LTE	8500 / 700 D/E (DUAL RRH)	BLANK	BLUE	YELLOW	SLATE	BLANK
B - SPLIT	LTE	700 (B/C)	BROWN	BLUE	VIOLET	YELLOW	BLANK
B - SPLIT	LTE	850	BROWN	BLUE	YELLOW	YELLOW	BLANK
B - SPLIT	LTE	850 - 2ND BLOCK	BROWN	BLUE	YELLOW	YELLOW	BLANK
B - SPLIT	LTE	1900 (PCS)	BROWN	BLUE	YELLOW	RED	BLANK
B - SPLIT	LTE	1900 (PCS) - 2ND BLOCK	BROWN	BLUE	YELLOW	RED	BLANK
B - SPLIT	LTE	2100 (AWS)	BROWN	BLUE	ORANGE	ORANGE	BLANK
B - SPLIT	LTE	2100 (AWS) - 2ND BLOCK	BROWN	BLUE	ORANGE	ORANGE	BLANK
B - SPLIT	LTE	2300 (WCS)	BROWN	BLUE	SLATE	SLATE	BLANK
B - SPLIT	LTE	2300 (WCS) - 2ND BLOCK	BROWN	BLUE	BROWN	BROWN	BLANK
B - SPLIT	LTE	2300 (WCS) - SW REPEATER	BROWN	BLUE	BROWN	BROWN	BLANK
B - SPLIT	LTE	700 (D/E)	BROWN	BLUE	VIOLET	BLUE	BLANK
B - SPLIT	LTE	700 FIRSTNET	BROWN	BLUE	BROWN	BROWN	BLANK
B - SPLIT	LTE	700 (B/C) / 700 FIRSTNET (DUAL RRH)	BROWN	BLUE	VIOLET	BLUE	BLANK
B - SPLIT	LTE	1900 (PCS) / 2100 (AWS) (DUAL RRH)	BROWN	BLUE	RED	ORANGE	BLANK
B - SPLIT	LTE	8500 / 700 D/E (DUAL RRH)	BROWN	BLUE	YELLOW	SLATE	BLANK
C	LTE	700 (B/C)	BLANK	WHITE	VIOLET	YELLOW	BLANK
C	LTE	850	BLANK	WHITE	YELLOW	YELLOW	BLANK
C	LTE	850 - 2ND BLOCK	BLANK	WHITE	YELLOW	YELLOW	BLANK
C	LTE	1900 (PCS)	BLANK	WHITE	RED	RED	BLANK
C	LTE	1900 (PCS) - 2ND BLOCK	BLANK	WHITE	RED	RED	BLANK
C	LTE	2100 (AWS)	BLANK	WHITE	ORANGE	ORANGE	BLANK
C	LTE	2100 (AWS) - 2ND BLOCK	BLANK	WHITE	ORANGE	ORANGE	BLANK
C	LTE	2300 (WCS)	BLANK	WHITE	SLATE	SLATE	BLANK
C	LTE	2300 (WCS) - 2ND BLOCK	BLANK	WHITE	BROWN	BROWN	BLANK
C	LTE	2300 (WCS) - SW REPEATER	BLANK	WHITE	BROWN	BROWN	BLANK
C	LTE	700 (D/E)	BLANK	WHITE	VIOLET	BLUE	BLANK
C	LTE	700 FIRSTNET	BLANK	WHITE	VIOLET	BLUE	BLANK
C	LTE	700 (B/C) / 700 FIRSTNET (DUAL RRH)	BLANK	WHITE	VIOLET	BLUE	BLANK
C	LTE	1900 (PCS) / 2100 (AWS) (DUAL RRH)	BLANK	WHITE	RED	ORANGE	BLANK
C	LTE	8500 / 700 D/E (DUAL RRH)	BLANK	WHITE	YELLOW	SLATE	BLANK
C - SPLIT	LTE	700 (B/C)	WHITE	VIOLET	VIOLET	YELLOW	BLANK
C - SPLIT	LTE	850	WHITE	VIOLET	YELLOW	YELLOW	BLANK
C - SPLIT	LTE	850 - 2ND BLOCK	WHITE	VIOLET	YELLOW	YELLOW	BLANK
C - SPLIT	LTE	1900 (PCS)	WHITE	VIOLET	RED	RED	BLANK
C - SPLIT	LTE	1900 (PCS) - 2ND BLOCK	WHITE	VIOLET	RED	RED	BLANK
C - SPLIT	LTE	2100 (AWS)	WHITE	VIOLET	ORANGE	ORANGE	BLANK
C - SPLIT	LTE	2100 (AWS) - 2ND BLOCK	WHITE	VIOLET	ORANGE	ORANGE	BLANK
C - SPLIT	LTE	2300 (WCS)	WHITE	VIOLET	SLATE	SLATE	BLANK
C - SPLIT	LTE	2300 (WCS) - 2ND BLOCK	WHITE	VIOLET	BROWN	BROWN	BLANK
C - SPLIT	LTE	2300 (WCS) - SW REPEATER	WHITE	VIOLET	BROWN	BROWN	BLANK
C - SPLIT	LTE	700 (D/E)	WHITE	VIOLET	BROWN	BROWN	BLANK
C - SPLIT	LTE	700 FIRSTNET	WHITE	VIOLET	BLUE	BLUE	BLANK
C - SPLIT	LTE	700 (B/C) / 700 FIRSTNET (DUAL RRH)	WHITE	VIOLET	VIOLET	BLUE	BLANK
C - SPLIT	LTE	1900 (PCS) / 2100 (AWS) (DUAL RRH)	WHITE	VIOLET	RED	ORANGE	BLANK
C - SPLIT	LTE	8500 / 700 D/E (DUAL RRH)	WHITE	VIOLET	YELLOW	SLATE	BLANK
D	LTE	700 (B/C)	BLANK	ORANGE	VIOLET	YELLOW	BLANK
D	LTE	850	BLANK	ORANGE	YELLOW	YELLOW	BLANK
D	LTE	850 - 2ND BLOCK	BLANK	ORANGE	YELLOW	YELLOW	BLANK
D	LTE	1900 (PCS)	BLANK	ORANGE	RED	RED	BLANK
D	LTE	1900 (PCS) - 2ND BLOCK	BLANK	ORANGE	RED	RED	BLANK
D	LTE	2100 (AWS)	BLANK	ORANGE	ORANGE	ORANGE	BLANK
D	LTE	2100 (AWS) - 2ND BLOCK	BLANK	ORANGE	ORANGE	ORANGE	BLANK
D	LTE	2300 (WCS)	BLANK	ORANGE	SLATE	SLATE	BLANK
D	LTE	2300 (WCS) - 2ND BLOCK	BLANK	ORANGE	BROWN	BROWN	BLANK
D	LTE	2300 (WCS) - SW REPEATER	BLANK	ORANGE	BROWN	BROWN	BLANK
D	LTE	700 (D/E)	BLANK	ORANGE	VIOLET	BLUE	BLANK
D	LTE	700 FIRSTNET	BLANK	ORANGE	VIOLET	BLUE	BLANK
D	LTE	700 (B/C) / 700 FIRSTNET (DUAL RRH)	BLANK	ORANGE	VIOLET	BLUE	BLANK
D	LTE	1900 (PCS) / 2100 (AWS) (DUAL RRH)	BLANK	ORANGE	RED	ORANGE	BLANK
D	LTE	8500 / 700 D/E (DUAL RRH)	BLANK	ORANGE	YELLOW	SLATE	BLANK
E	LTE	700 (B/C)	BLANK	BROWN	VIOLET	YELLOW	BLANK
E	LTE	850	BLANK	BROWN	YELLOW	YELLOW	BLANK
E	LTE	850 - 2ND BLOCK	BLANK	BROWN	YELLOW	YELLOW	BLANK
E	LTE	1900 (PCS)	BLANK	BROWN	RED	RED	BLANK
E	LTE	1900 (PCS) - 2ND BLOCK	BLANK	BROWN	RED	RED	BLANK
E	LTE	2100 (AWS)	BLANK	BROWN	ORANGE	ORANGE	BLANK
E	LTE	2100 (AWS) - 2ND BLOCK	BLANK	BROWN	ORANGE	ORANGE	BLANK
E	LTE	2300 (WCS)	BLANK	BROWN	SLATE	SLATE	BLANK
E	LTE	2300 (WCS) - 2ND BLOCK	BLANK	BROWN	BROWN	BROWN	BLANK
E	LTE	2300 (WCS) - SW REPEATER	BLANK	BROWN	BROWN	BROWN	BLANK
E	LTE	700 (D/E)	BLANK	BROWN	VIOLET	BLUE	BLANK
E	LTE	700 FIRSTNET	BLANK	BROWN	BROWN	BROWN	BLANK
E	LTE	700 (B/C) / 700 FIRSTNET (DUAL RRH)	BLANK	BROWN	VIOLET	BLUE	BLANK
E	LTE	1900 (PCS) / 2100 (AWS) (DUAL RRH)	BLANK	BROWN	RED	ORANGE	BLANK
E	LTE	8500 / 700 D/E (DUAL RRH)	BLANK	BROWN	YELLOW	SLATE	BLANK
F	LTE	700 (B/C)	BLANK	VIOLET	VIOLET	YELLOW	BLANK
F	LTE	850	BLANK	VIOLET	YELLOW	YELLOW	BLANK
F	LTE	850 - 2ND BLOCK	BLANK	VIOLET	YELLOW	YELLOW	BLANK
F	LTE	1900 (PCS)	BLANK	VIOLET	RED	RED	BLANK
F	LTE	1900 (PCS) - 2ND BLOCK	BLANK	VIOLET	RED	RED	BLANK
F	LTE	2100 (AWS)	BLANK	VIOLET	ORANGE	ORANGE	BLANK
F	LTE	2100 (AWS) - 2ND BLOCK	BLANK	VIOLET	ORANGE	ORANGE	BLANK
F	LTE	2300 (WCS)	BLANK	VIOLET	SLATE	SLATE	BLANK
F	LTE	2300 (WCS) - 2ND BLOCK	BLANK	VIOLET	BROWN	BROWN	BLANK
F	LTE	2300 (WCS) - SW REPEATER	BLANK	VIOLET	BROWN	BROWN	BLANK
F	LTE	700 (D/E)	BLANK	VIOLET	BROWN	BLUE	BLANK
F	LTE	700 FIRSTNET	BLANK	VIOLET	BROWN	BLUE	BLANK
F	LTE	700 (B/C) / 700 FIRSTNET (DUAL RRH)	BLANK	VIOLET	VIOLET	BLUE	BLANK
F	LTE	1900 (PCS) / 2100 (AWS) (DUAL RRH)	BLANK	VIOLET	RED	ORANGE	BLANK
F	LTE	8500 / 700 D/E (DUAL RRH)	BLANK	VIOLET	YELLOW	SLATE	BLANK

NOTE 1: PRODUCTS ARE ONLY TO BE USED WHEN ADEQUATE PHYSICAL SPACE EXISTS FOR PROPER INSTALLATION.

NOTE 2: HEAT SHRINK MAY ONLY BE USED AT GROUND LEVEL OR ROOFTOP SITES WHEN APPLIED WITH A HEAT GUN. USE ON TOWERS OR INSTALLING WITH AN OPEN FLAME DEVICE, SUCH AS A TORCH, IS PROHIBITED DUE TO POTENTIAL DAMAGE TO CONNECTORS AND CABLES. HEAT SHRINK IS NOT ALLOWED ON CONNECTIONS TO TOWER TOP EQUIPMENT EVEN IF THE HEAT SHRINK IS APPLIED ON THE GROUND PRIOR TO INSTALLING THE EQUIPMENT ON THE TOWER TOP.

NOTE 3: HEAT SHRINK IS NOT TO BE USED ON RET/AISG CONNECTORS FOUND ON RF DEVICES (RRH/RRU, ANTENNAS, ETC.), DUE TO POSSIBLE DAMAGE BEING CAUSED TO THE DEVICE. IT MAY BE USED ON CONNECTORS ATTACHED TO RET SURGE PROTECTORS.

NOTE 4: WHEN GAMMA ELECTRONICS COLD SHRINK IS USED ON FULLY THREADED DIN CONNECTORS THE THREADS MUST HAVE EITHER ROSENBERGER THREAD ADAPTER OR BUTYL APPLIED PRIOR TO THE COLD SHRINK BEING INSTALLED. REFER TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS INCLUDED WITH THE PRODUCT FOR DETAILS.

TABLE 1: E/ PA / S. NJ / DE - COAX COLOR CODE

SECTOR	ALPHA	GREEN	ORANGE	BLANK
A-SPLIT		GREEN	ORANGE	BLANK
BETA		BLUE	ORANGE	BLANK
B-SPLIT		BROWN	BROWN	BLANK
GAMMA		WHITE	VIOLET	BLANK
C-SPLIT		WHITE	VIOLET	BLANK
D		ORANGE	BROWN	BLANK
E		BROWN	BROWN	BLANK
F		VIOLET	VIOLET	BLANK

FREQUENCY BAND	DC TRUCK / DC JUMPER / FIRST FIBER JUMPER	GREEN	ORANGE	BLANK
700 (B/C)		VIOLET	YELLOW	BLANK
850		YELLOW	YELLOW	BLANK
850 - 2ND BLOCK		YELLOW	YELLOW	BLANK
1900 (PCS)		RED	RED	BLANK
1900 (PCS) - 2ND BLOCK		RED	RED	BLANK
2100 (AWS)		ORANGE	ORANGE	BLANK
2100 (AWS) - 2ND BLOCK		ORANGE	ORANGE	BLANK
2300 (WCS)		BROWN	BROWN	BLANK
2300 (WCS) - 2ND BLOCK		BROWN	BROWN	BLANK
2300 (WCS) - SW REPEATER		BROWN	BROWN	BLANK
700 (D/E)		SLATE	SLATE	BLANK
700 FIRSTNET		VIOLET	BLUE	BLANK
700 (B/C) / 700 FIRSTNET (DUAL RRH)		VIOLET	BLUE	BLANK
1900 (PCS) / 2100 (AWS) (DUAL RRH)		RED	ORANGE	BLANK
8500 / 700 D/E (DUAL RRH)		YELLOW	SLATE	BLANK

WEATHERPROOFING PRODUCT APPLICATION TABLE

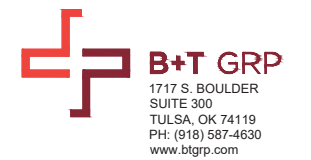
PRODUCT	APPLICATION					
	HARDLINE TO JUMPER CONNECTION	7-16 DIN RF CONNECTOR	4.3-10 RF CONNECTOR	RRH/RRU DC CONNECTOR	RRH/RRU FIBER CONNECTOR	RET/AISG
TAPE & BUTYL	YES	YES (1)	YES (1)	NO	NO	NO
SELF-FUSING TAPE	YES	YES (1)	YES (1)	YES	NO	YES
JUMPER BOOT	NO	YES	YES	NO	NO	NO

TORQUE VALUES FOR CONNECTORS

CONNECTOR TYPE	TORQUE Ft-lbs	TORQUE In-lbs
7-16 DIN	19-22	221-265
4.3-10	3.67	44
N	1.25	15
SMA	0.42	5
TNC	0.42	5
RET/AISG	HAND TIGHTEN	HAND TIGHTEN

MINIMUM BENDING RADIUS FOR GROUNDING CONDUCTORS

GROUNDING CONDUCTOR SIZE	MINIMUM BENDING RADIUS (INCHES)
6 AWG	2
4 AWG	3
2 AWG	3
1/0 AWG	4
4/0 AWG	4
750 KCML	7



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HRT 046 943209

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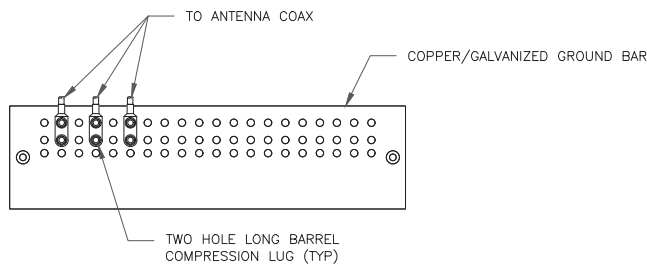
EXISTING 115'-6"
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
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1	7/11/20	GEH	CONSTRUCTION	GEH
2	8/3/20	JJD	CONSTRUCTION	FWP



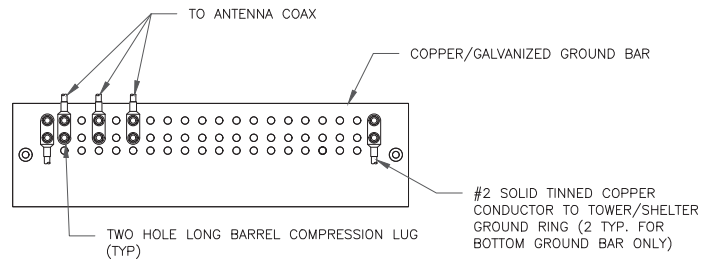
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NOTES:

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

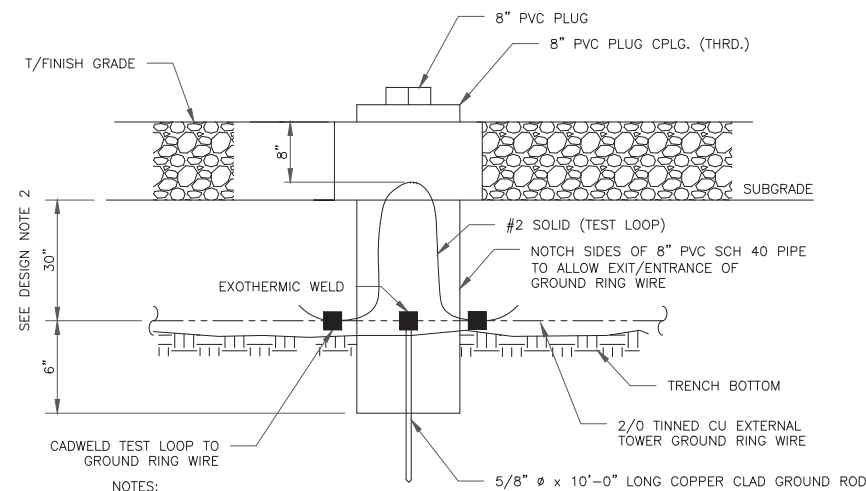
1 ANTENNA GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

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

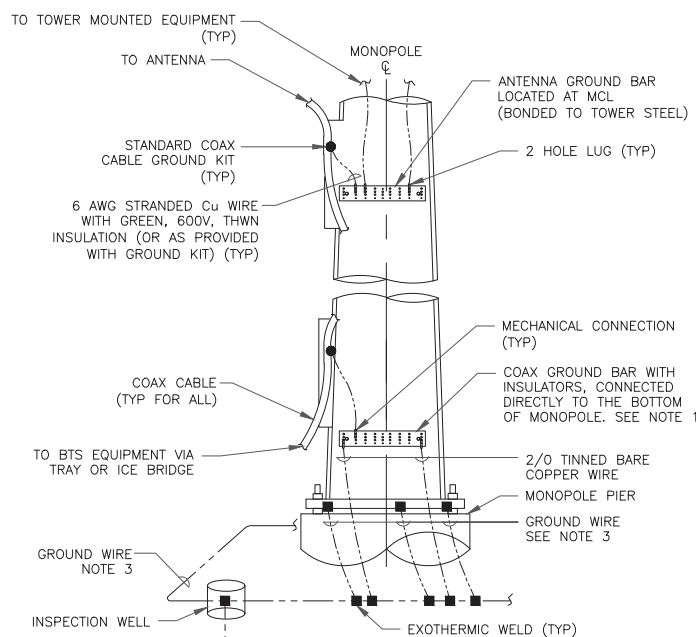
2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

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

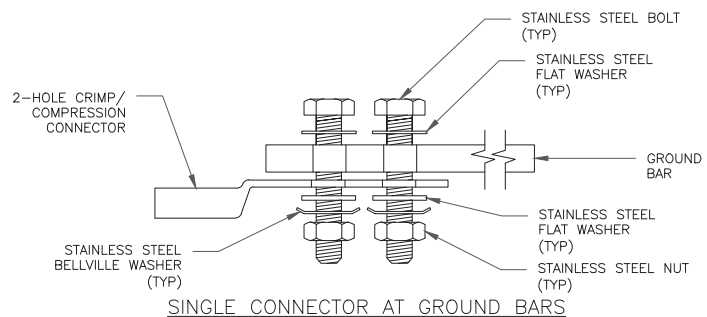
3 INSPECTION WELL DETAIL
SCALE: NOT TO SCALE



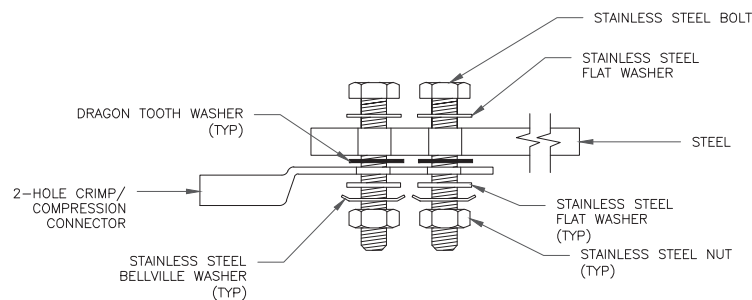
NOTES:

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

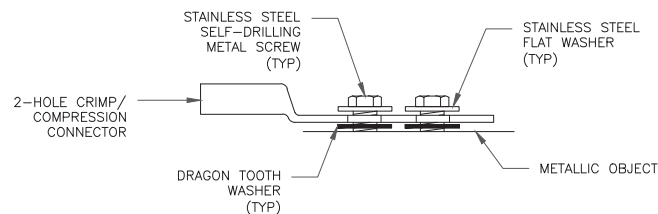
4 TYPICAL ANTENNA CABLE GROUNDING
SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS

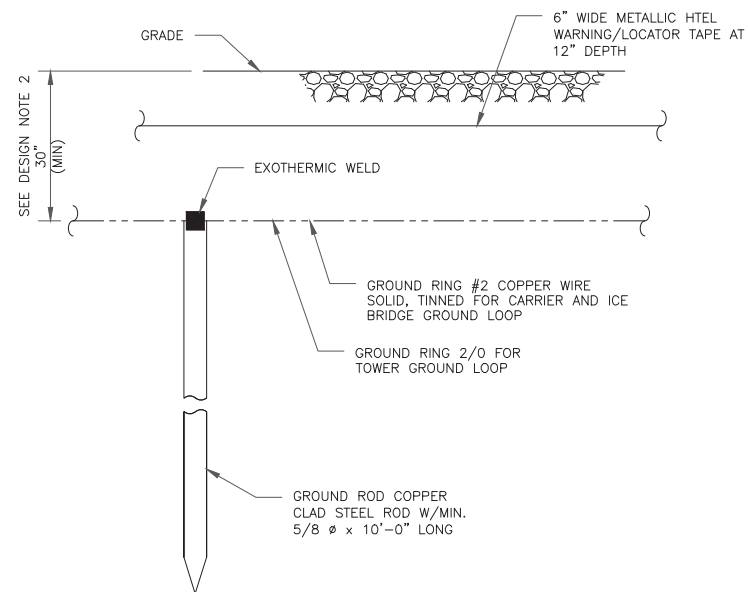


SINGLE CONNECTOR AT STEEL OBJECTS



SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

5 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



NOTES:

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

6 GROUND ROD DETAIL
SCALE: NOT TO SCALE



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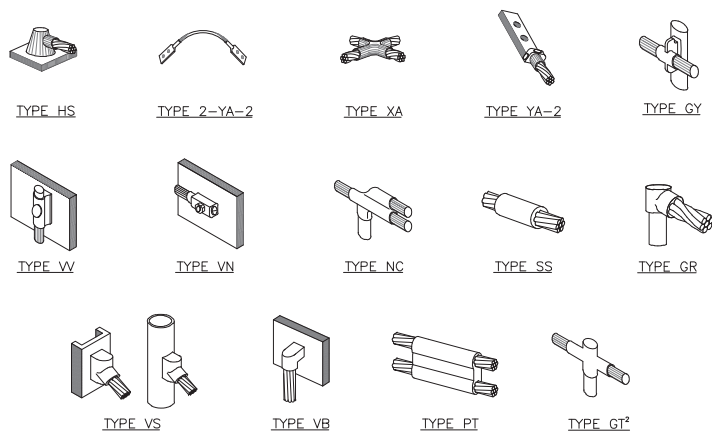


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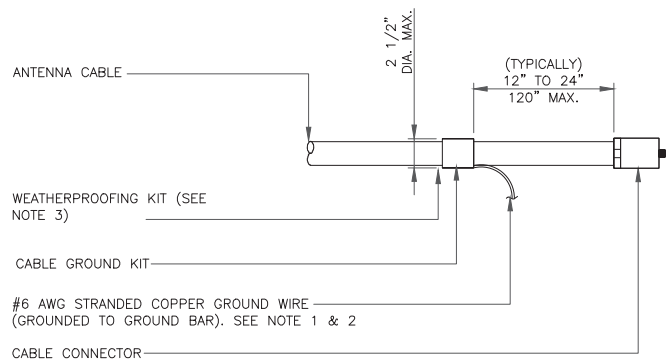
142974_806367_HRT_046_943209.dwg - Sheet:G-1 - User: fperkins - Aug 03, 2020 - 12:30pm



NOTE:

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

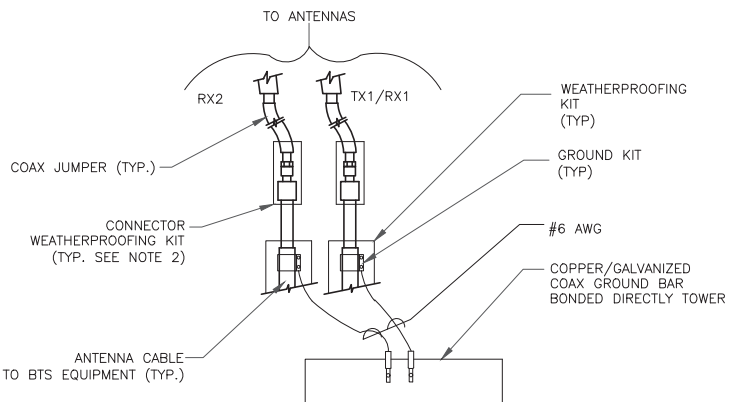
1 CADWELD GROUNDING CONNECTIONS
SCALE: NOT TO SCALE



NOTES:

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

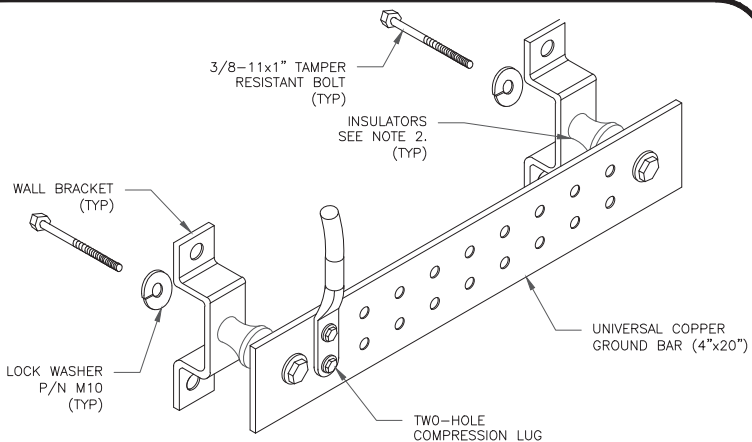
3 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



NOTES:

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

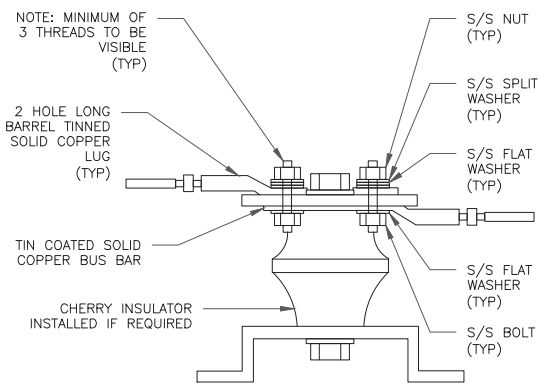
4 GROUND CABLE CONNECTION
SCALE: NOT TO SCALE



NOTES:

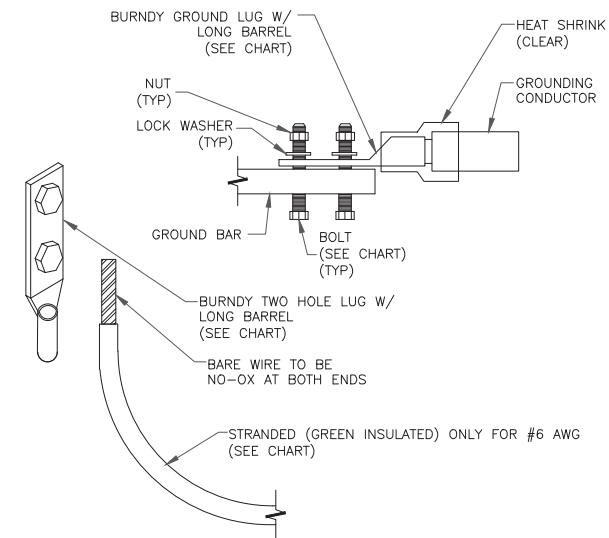
1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091, NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
2. OMIT INSULATOR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

6 GROUND BAR DETAIL
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE

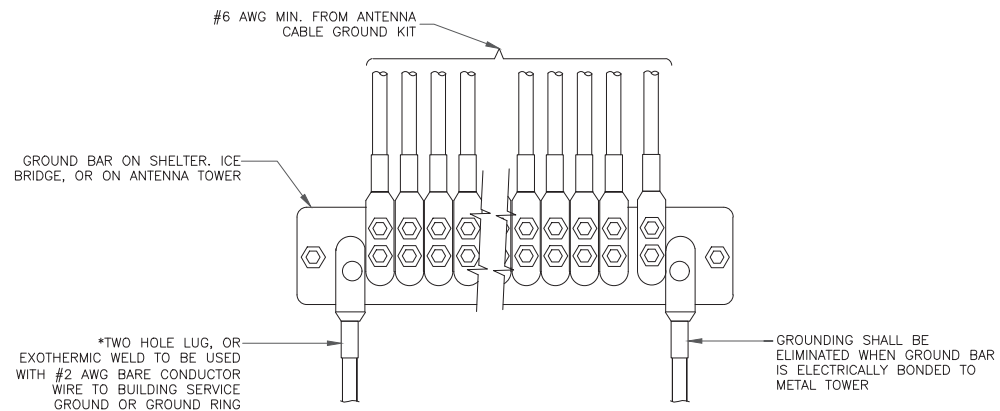
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



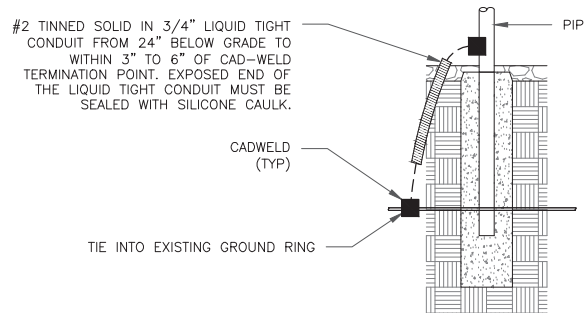
NOTES:

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

2 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



5 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



8 TRANSITIONING GROUND DETAIL
SCALE: NOT TO SCALE



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Exhibit D

Structural Analysis Report

Date: **March 29, 2019**

Amanda D Brown
Crown Castle
3530 Toringdon Way
Charlotte, NC 28277

Paul J. Ford and Company
250 East Broad St., Suite 600
Columbus, OH 43215
(614) 221-6679

Subject: Structural Analysis Report

Carrier Designation: AT&T Mobility Co-Locate
Carrier Site Number: CT5386
Carrier Site Name: CT5386

Crown Castle Designation: Crown Castle BU Number: 806367
Crown Castle Site Name: HRT 046 943209
Crown Castle JDE Job Number: 556168
Crown Castle Work Order Number: 1714117
Crown Castle Order Number: 477393 Rev. 0

Engineering Firm Designation: Paul J. Ford and Company Project Number: 37519-1174.001.7805

Site Data: MAPLE AVE WEST, HADDAM, Middlesex County, CT
Latitude 41° 29' 4.54", Longitude -72° 34' 20.81"
115.5 Foot - Monopole Tower

Dear Amanda D Brown,

Paul J. Ford and Company 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:

LC5: Proposed Equipment Configuration

Sufficient Capacity

This analysis utilizes an ultimate 3-second gust wind speed of 130 mph as required by the 2018 Connecticut State Building Code and Appendix N. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Respectfully submitted by:

Allen R Bonham, EI
Structural Designer
abonham@pauljford.com

RMF

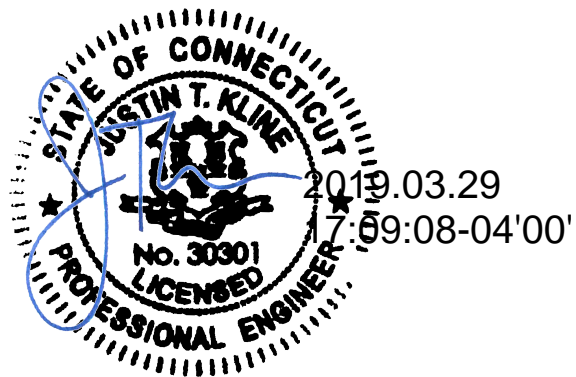


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tnxTower Output

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7) APPENDIX C

Additional Calculations

1) INTRODUCTION

This tower is a 115.5 ft Monopole tower designed by FWT INC. in March of 1996.

2) ANALYSIS CRITERIA

TIA-222 Revision: TIA-222-H
Risk Category: II
Wind Speed: 130 mph
Exposure Category: C
Topographic Factor: 1
Ice Thickness: 1.5 in
Wind Speed with Ice: 40 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)
87.0	89.0	4	cci antennas	HPA65R-BU6A w/ Mount Pipe	2 2 4 12 1	3/8 7/16 3/4 7/8 2" Conduit
		2	cci antennas	HPA65R-BU8A w/ Mount Pipe		
		3	ericsson	RRUS 4415 B25		
		3	ericsson	RRUS 4449 B5/B12		
		3	ericsson	RRUS 8843 B2/B66A		
		2	kathrein	80010965 w/ Mount Pipe		
		1	kathrein	80010966 w/ Mount Pipe		
		3	powerwave technologies	7770.00 w/ Mount Pipe		
		2	raycap	DC6-48-60-18-8C-EV		
	1	raycap	DC6-48-60-18-8F			
	87.0	87.0	6	powerwave technologies			LGP21401
1			tower mounts	Platform Mount [LP 304-1]		
85.0	85.0	3	ericsson	RRUS 11 B12	--	--
		1	tower mounts	Side Arm Mount [SO 102-3]		

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)
117.0	119.0	3	antel	BXA-171063-8BF-2 w/ Mount Pipe	15	1 5/8
		3	antel	BXA-70063/6CF w/ MP		
		4	antel	LPA-80063/6CF w/ MP		
		2	antel	LPA-80080/6CF w/ MP		
		6	rfs celwave	FD9R6004/2C-3L		
	117.0	1	tower mounts	Platform Mount [LP 1001-1]		
104.0	109.0	2	decibel	DB411-A	3	7/8
	107.0	1	maxrad	MFB4505		
	104.0	1	tower mounts	Side Arm Mount [SO 702-3]		
97.0	97.0	3	ems wireless	RR90-17-02DP w/ Mount Pipe	12	1 1/4
		3	commscope	ATBT-BOTTOM-24V		
		3	commscope	LNx-6515DS-VTM w/ Mount Pipe		
		3	ericsson	KRY 112 489/2		
		1	tower mounts	Side Arm Mount [SO 702-3]		
75.0	77.0	3	kathrein	742 213 w/ Mount Pipe	6	1 5/8
	75.0	1	tower mounts	Pipe Mount [PM 601-3]		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Remarks	Reference	Source
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	PJF, 1927396, 3/1/1996	2200141	CCISITES
4-TOWER MANUFACTURER DRAWINGS	PJF, 1927396, 3/1/1996	997499	CCISITES
4-GEOTECHNICAL REPORTS	FDH, 08-02135G, 3/18/2008	2225355	CCISITES

3.1) Analysis Method

tnxTower (version 8.0.5.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A.

3.2) Assumptions

- 1) Tower and structures were built in accordance with the manufacturer's specifications.
- 2) The tower and structures have been maintained in accordance with the manufacturer's specification.

- 3) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.
- 4) The existing base plate grout was not considered in this analysis.

This analysis may be affected if any assumptions are not valid or have been made in error. Paul J. Ford and Company 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	115.5 - 83.92	Pole	TP40.829x32.25x0.25	1	-8.32	1790.03	21.7	Pass
L2	83.92 - 41.25	Pole	TP51.92x38.8811x0.3125	2	-22.15	2808.03	48.6	Pass
L3	41.25 - 0	Pole	TP62.5x49.4614x0.375	3	-38.95	4073.37	59.6	Pass
							Summary	
						Pole (L3)	59.6	Pass
						Rating =	59.6	Pass

Table 5 - Tower Component Stresses vs. Capacity – LC5

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	0	68.0	Pass
1	Base Plate	0	61.7	Pass
1	Base Foundation Structural Steel	0	36.4	Pass
1	Base Foundation Soil Interaction	0	74.7	Pass

Structure Rating (max from all components) =	74.7%
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Notes:

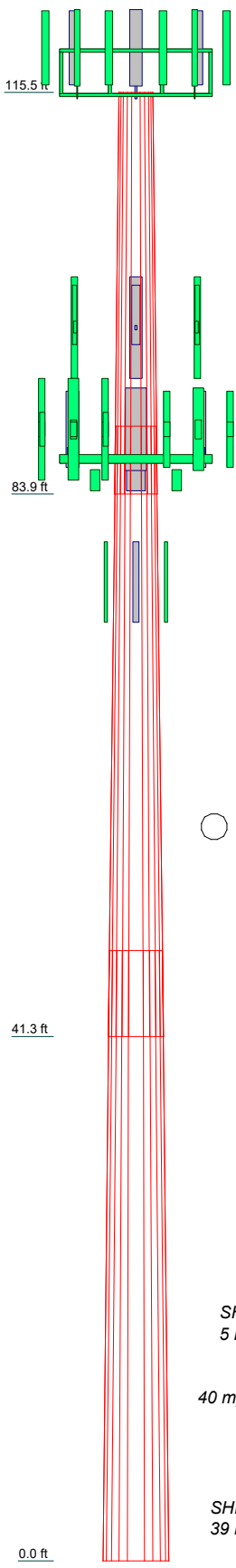
- All structural ratings are per TIA-222-H Section 15.5
- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.

4.1) Recommendations

The monopole and its foundation have sufficient capacity to carry the proposed loading configuration. No modifications are required at this time.

APPENDIX A
TNXTOWER OUTPUT

Section	1	2	3	21.5
Length (ft)	31.58	48.00	48.00	
Number of Sides	12	12	12	
Thickness (in)	0.2500	0.3125	0.3750	
Socket Length (ft)	5.33	6.75	49.4614	
Top Dia (in)	32.2500	38.8811	62.5000	
Bot Dia (in)	40.8290	51.9200		
Grade		A572-65		
Weight (K)	3.1	7.4	11.0	



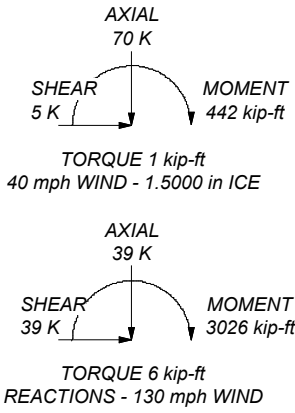
MATERIAL STRENGTH

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

TOWER DESIGN NOTES

1. Tower is located in Middlesex County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 130 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 40 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TIA-222-H Annex S
9. TOWER RATING: 59.6%

ALL REACTIONS ARE FACTORED



Paul J. Ford and Company
 250 East Broad st., Suite 600
 Columbus, OH 43215
 Phone: (614) 221-6679
 FAX:

Job: 116' ft Monopole / HRT 046943209		
Project: 37519-1174.001.7805 / BU 806367		
Client: Crown Castle	Drawn by: Allen R. Bonham, EI	App'd:
Code: TIA-222-H	Date: 03/29/19	Scale: NTS
Path:		Dwg No. E-1

G:\CROWN\375 Crown Castle\2019\37519-1174_806367_HRT 046 943209\37519-1174.001.7805_SA_171411737519-1174.001.7805.dwg

Tower Input Data

The tower is a monopole.

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

The following design criteria apply:

- 1) Tower is located in Middlesex County, Connecticut.
- 2) Tower base elevation above sea level: 474.00 ft.
- 3) Basic wind speed of 130 mph.
- 4) Risk Category II.
- 5) Exposure Category C.
- 6) Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- 7) Topographic Category: 1.
- 8) Crest Height: 0.00 ft.
- 9) Nominal ice thickness of 1.5000 in.
- 10) Ice thickness is considered to increase with height.
- 11) Ice density of 56 pcf.
- 12) A wind speed of 40 mph is used in combination with ice.
- 13) Temperature drop of 50 °F.
- 14) Deflections calculated using a wind speed of 60 mph.
- 15) TIA-222-H Annex S.
- 16) A non-linear (P-delta) analysis was used.
- 17) Pressures are calculated at each section.
- 18) Stress ratio used in pole design is 1.05.
- 19) Tower analysis based on target reliabilities in accordance with Annex S.
- 20) Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
- 21) Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

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	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	Use ASCE 10 X-Brace Ly Rules Calculate Redundant Bracing Forces Ignore Redundant Members in FEA SR Leg Bolts Resist Compression All Leg Panels Have Same Allowable Offset Girt At Foundation ✓ Consider Feed Line Torque Include Angle Block Shear Check Use TIA-222-H Bracing Resist. Exemption Use TIA-222-H Tension Splice Exemption <div style="text-align: center; background-color: #e0e0e0; padding: 2px;">Poles</div> ✓ 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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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	115.50-83.92	31.58	5.33	12	32.2500	40.8290	0.2500	1.0000	A572-65 (65 ksi)
L2	83.92-41.25	48.00	6.75	12	38.8811	51.9200	0.3125	1.2500	A572-65 (65 ksi)
L3	41.25-0.00	48.00		12	49.4614	62.5000	0.3750	1.5000	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	It/Q in ²	w in	w/t
L1	33.2995	25.7600	3366.9120	11.4560	16.7055	201.5451	6822.2765	12.6783	7.9730	31.892
	42.1811	32.6661	6865.7163	14.5273	21.1494	324.6290	13911.802	16.0773	10.2722	41.089
L2	41.6413	38.8096	7368.7188	13.8075	20.1404	365.8678	14931.022	19.1009	9.5826	30.664
	53.6413	51.9300	17653.479	18.4755	26.8946	656.3959	35770.734	25.5584	13.0771	41.847
L3	52.9722	59.2718	18228.738	17.5729	25.6210	711.4763	36936.365	29.1718	12.2507	32.668
	64.5725	75.0159	36954.922	22.2407	32.3750	1141.4648	74880.691	36.9206	15.7450	41.987

Tower Elevation ft	Gusset Area (per face) ft ²	Gusset Thickness in	Gusset Grade	Adjust. Factor A _r	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontal in	Double Angle Stitch Bolt Spacing Redundants in
L1 115.50-83.92				1	1	1			
L2 83.92-41.25				1	1	1			
L3 41.25-0.00				1	1	1			

Feed Line/Linear Appurtenances - Entered As Area

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
LDF7-50A(1-5/8")	C	No	No	Inside Pole	115.50 - 0.00	15	No Ice	0.00
							1/2" Ice	0.00
							1" Ice	0.00
							2" Ice	0.00
**								
LCF78-50J(7/8")	C	No	No	Inside Pole	104.00 - 0.00	1	No Ice	0.00
							1/2" Ice	0.00
							1" Ice	0.00
							2" Ice	0.00
LCF78-50J(7/8")	C	No	No	CaAa (Out Of Face)	104.00 - 0.00	1	No Ice	0.11
							1/2" Ice	0.21
							1" Ice	0.31
							2" Ice	0.51
LCF78-50J(7/8")	C	No	No	CaAa (Out Of Face)	104.00 - 0.00	1	No Ice	0.00
							1/2" Ice	0.00
							1" Ice	0.00
							2" Ice	0.00
**								
FLC 114-50J(1-1/4")	C	No	No	Inside Pole	97.00 - 0.00	6	No Ice	0.00
							1/2" Ice	0.00

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C _{AA} ft ² /ft	Weight klf
							1" Ice	0.00	0.00
							2" Ice	0.00	0.00
**									
2" (Nominal) Conduit	C	No	No	CaAa (Out Of Face)	87.00 - 0.00	1	No Ice	0.00	0.00
							1/2" Ice	0.00	0.00
							1" Ice	0.00	0.00
LDF5-50A(7/8)	C	No	No	CaAa (Out Of Face)	87.00 - 0.00	2	2" Ice	0.00	0.01
							No Ice	0.10	0.00
							1/2" Ice	0.20	0.00
							1" Ice	0.30	0.00
LDF5-50A(7/8)	C	No	No	CaAa (Out Of Face)	87.00 - 0.00	10	2" Ice	0.50	0.01
							No Ice	0.00	0.00
							1/2" Ice	0.00	0.00
							1" Ice	0.00	0.00
FB-L98B-002-75000(3/8)	C	No	No	CaAa (Out Of Face)	87.00 - 0.00	1	2" Ice	0.00	0.01
							No Ice	0.00	0.00
							1/2" Ice	0.00	0.00
							1" Ice	0.00	0.00
WR-VG122ST-BRDA(7/16)	C	No	No	CaAa (Out Of Face)	87.00 - 0.00	2	2" Ice	0.00	0.01
							No Ice	0.00	0.00
							1/2" Ice	0.00	0.00
							1" Ice	0.00	0.00
FB-L98B-034-XXX(3/8)	C	No	No	CaAa (Out Of Face)	87.00 - 0.00	1	2" Ice	0.00	0.01
							No Ice	0.00	0.00
							1/2" Ice	0.00	0.00
							1" Ice	0.00	0.00
WR-VG86ST-BRD(3/4)	C	No	No	CaAa (Out Of Face)	87.00 - 0.00	4	2" Ice	0.00	0.01
							No Ice	0.00	0.00
							1/2" Ice	0.00	0.00
							1" Ice	0.00	0.00
**							2" Ice	0.00	0.01
AVA7-50(1-5/8)	C	No	No	Inside Pole	75.00 - 0.00	6	No Ice	0.00	0.00
							1/2" Ice	0.00	0.00
							1" Ice	0.00	0.00
							2" Ice	0.00	0.00

Feed Line/Linear Appurtenances Section Areas

Tower Sectio n	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight K
L1	115.50-83.92	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	2.843	0.50
L2	83.92-41.25	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	13.484	1.23
L3	41.25-0.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	13.035	1.23

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Sectio n	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight K
L1	115.50-83.92	A	1.423	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	10.313	0.97

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
L2	83.92-41.25	A	1.358	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	49.925	5.57
L3	41.25-0.00	A	1.217	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	46.649	5.12

Feed Line Center of Pressure

Section	Elevation ft	CP _X in	CP _Z in	CP _X Ice in	CP _Z Ice in
L1	115.50-83.92	-0.4892	0.2824	-1.2459	0.7193
L2	83.92-41.25	-1.5440	0.8914	-3.7577	2.1695
L3	41.25-0.00	-1.5669	0.9046	-3.8274	2.2097

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
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Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustmen t °	Placement ft	C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K	
BXA-171063-8BF-2 w/ Mount Pipe	A	From Leg	4.00	0.0000	117.00	No Ice	3.18	3.35	0.03
			0.00			1/2"	3.56	3.97	0.06
			2.00			Ice	3.93	4.60	0.10
						1" Ice	4.69	5.89	0.19
						2" Ice			
BXA-171063-8BF-2 w/ Mount Pipe	B	From Leg	4.00	0.0000	117.00	No Ice	3.18	3.35	0.03
			0.00			1/2"	3.56	3.97	0.06
			2.00			Ice	3.93	4.60	0.10
						1" Ice	4.69	5.89	0.19
						2" Ice			
BXA-171063-8BF-2 w/ Mount Pipe	C	From Leg	4.00	0.0000	117.00	No Ice	3.18	3.35	0.03
			0.00			1/2"	3.56	3.97	0.06
			2.00			Ice	3.93	4.60	0.10
						1" Ice	4.69	5.89	0.19
						2" Ice			
BXA-70063/6CF w/ Mount Pipe	A	From Leg	4.00	0.0000	117.00	No Ice	7.82	5.41	0.04
			0.00			1/2"	8.37	6.56	0.10
			2.00			Ice	8.89	7.42	0.17
						1" Ice	9.94	9.20	0.33
						2" Ice			
BXA-70063/6CF w/ Mount Pipe	B	From Leg	4.00	0.0000	117.00	No Ice	7.82	5.41	0.04
			0.00			1/2"	8.37	6.56	0.10
			2.00			Ice	8.89	7.42	0.17

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	ft ²	ft ²	K	
BXA-70063/6CF w/ Mount Pipe	C	From Leg	4.00	0.00	0.0000	117.00	1" Ice	9.94	9.20	0.33
							2" Ice			
							No Ice	7.82	5.41	0.04
							1/2" Ice	8.37	6.56	0.10
(2) LPA-80080/6CF w/ Mount Pipe	A	From Leg	4.00	0.00	0.0000	117.00	1/2" Ice	8.89	7.42	0.17
							1" Ice	9.94	9.20	0.33
							2" Ice			
							No Ice	4.56	10.26	0.05
(2) LPA-80063/6CF w/ Mount Pipe	B	From Leg	4.00	0.00	0.0000	117.00	1/2" Ice	5.11	11.43	0.11
							1" Ice	5.61	12.31	0.19
							2" Ice	6.65	14.13	0.36
							No Ice	9.83	10.22	0.05
(2) LPA-80063/6CF w/ Mount Pipe	C	From Leg	4.00	0.00	0.0000	117.00	1/2" Ice	10.40	11.38	0.14
							1" Ice	10.93	12.27	0.25
							2" Ice	12.03	14.09	0.48
							No Ice	9.83	10.22	0.05
(2) FD9R6004/2C-3L	A	From Leg	4.00	0.00	0.0000	117.00	1/2" Ice	10.40	11.38	0.14
							1" Ice	10.93	12.27	0.25
							2" Ice	12.03	14.09	0.48
							No Ice	0.31	0.08	0.00
(2) FD9R6004/2C-3L	B	From Leg	4.00	0.00	0.0000	117.00	1/2" Ice	0.39	0.12	0.01
							1" Ice	0.47	0.17	0.01
							2" Ice	0.65	0.29	0.02
							No Ice	0.31	0.08	0.00
(2) FD9R6004/2C-3L	C	From Leg	4.00	0.00	0.0000	117.00	1/2" Ice	0.39	0.12	0.01
							1" Ice	0.47	0.17	0.01
							2" Ice	0.65	0.29	0.02
							No Ice	0.31	0.08	0.00
(3) 2.375" OD x 4' Mount Pipe	A	From Leg	4.00	0.00	0.0000	117.00	1/2" Ice	0.87	0.87	0.02
							1" Ice	1.11	1.11	0.03
							2" Ice	1.36	1.36	0.04
							No Ice	1.90	1.90	0.06
(3) 2.375" OD x 4' Mount Pipe	B	From Leg	4.00	0.00	0.0000	117.00	1/2" Ice	1.11	1.11	0.03
							1" Ice	1.36	1.36	0.04
							2" Ice	1.90	1.90	0.06
							No Ice	0.87	0.87	0.02
(3) 2.375" OD x 4' Mount Pipe	C	From Leg	4.00	0.00	0.0000	117.00	1/2" Ice	1.11	1.11	0.03
							1" Ice	1.36	1.36	0.04
							2" Ice	1.90	1.90	0.06
							No Ice	0.87	0.87	0.02
Platform Mount [LP 1001-1]	C	None			0.0000	117.00	1/2" Ice	59.50	59.50	3.62
							1" Ice	71.30	71.30	4.22
							2" Ice	94.90	94.90	5.43
							No Ice	47.70	47.70	3.02
** DB411-A	A	From Leg	4.00	0.00	0.0000	104.00	1/2" Ice	2.70	2.70	0.03
							1" Ice	3.90	3.90	0.04
							2" Ice	6.30	6.30	0.06
							No Ice	1.50	1.50	0.03
MFB4505	B	From Leg	4.00	0.00	0.0000	104.00	1/2" Ice	1.50	1.50	0.01
							No Ice	0.84	0.84	0.00

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
			3.00			Ice 2.13	2.13	0.02
						1" Ice 2.94	2.94	0.06
						2" Ice		
DB411-A	B	From Leg	4.00	0.0000	104.00	No Ice 1.50	1.50	0.03
			0.00			1/2" 2.70	2.70	0.03
			5.00			Ice 3.90	3.90	0.04
						1" Ice 6.30	6.30	0.06
						2" Ice		
Side Arm Mount [SO 702-3]	C	None		0.0000	104.00	No Ice 3.22	3.22	0.08
						1/2" 4.15	4.15	0.11
						Ice 5.08	5.08	0.15
						1" Ice 6.94	6.94	0.21
						2" Ice		
**								
LNx-6515DS-VTM w/ Mount Pipe	A	From Leg	4.00	0.0000	97.00	No Ice 11.68	9.84	0.08
			0.00			1/2" 12.40	11.37	0.17
			0.00			Ice 13.14	12.91	0.27
						1" Ice 14.51	15.27	0.51
						2" Ice		
LNx-6515DS-VTM w/ Mount Pipe	B	From Leg	4.00	0.0000	97.00	No Ice 11.68	9.84	0.08
			0.00			1/2" 12.40	11.37	0.17
			0.00			Ice 13.14	12.91	0.27
						1" Ice 14.51	15.27	0.51
						2" Ice		
LNx-6515DS-VTM w/ Mount Pipe	C	From Leg	4.00	0.0000	97.00	No Ice 11.68	9.84	0.08
			0.00			1/2" 12.40	11.37	0.17
			0.00			Ice 13.14	12.91	0.27
						1" Ice 14.51	15.27	0.51
						2" Ice		
RR90-17-02DP w/ Mount Pipe	A	From Leg	4.00	0.0000	97.00	No Ice 4.59	3.32	0.03
			0.00			1/2" 5.02	4.09	0.07
			1.00			Ice 5.44	4.78	0.12
						1" Ice 6.30	6.23	0.22
						2" Ice		
RR90-17-02DP w/ Mount Pipe	B	From Leg	4.00	0.0000	97.00	No Ice 4.59	3.32	0.03
			0.00			1/2" 5.02	4.09	0.07
			1.00			Ice 5.44	4.78	0.12
						1" Ice 6.30	6.23	0.22
						2" Ice		
RR90-17-02DP w/ Mount Pipe	C	From Leg	4.00	0.0000	97.00	No Ice 4.59	3.32	0.03
			0.00			1/2" 5.02	4.09	0.07
			1.00			Ice 5.44	4.78	0.12
						1" Ice 6.30	6.23	0.22
						2" Ice		
ATBT-BOTTOM-24V	A	From Leg	4.00	0.0000	97.00	No Ice 0.10	0.06	0.00
			0.00			1/2" 0.15	0.10	0.00
			0.00			Ice 0.20	0.15	0.01
						1" Ice 0.32	0.26	0.01
						2" Ice		
ATBT-BOTTOM-24V	B	From Leg	4.00	0.0000	97.00	No Ice 0.10	0.06	0.00
			0.00			1/2" 0.15	0.10	0.00
			0.00			Ice 0.20	0.15	0.01
						1" Ice 0.32	0.26	0.01
						2" Ice		
ATBT-BOTTOM-24V	C	From Leg	4.00	0.0000	97.00	No Ice 0.10	0.06	0.00
			0.00			1/2" 0.15	0.10	0.00
			0.00			Ice 0.20	0.15	0.01
						1" Ice 0.32	0.26	0.01
						2" Ice		
KRY 112 489/2	A	From Leg	4.00	0.0000	97.00	No Ice 0.56	0.37	0.02
			0.00			1/2" 0.66	0.45	0.02
			0.00			Ice 0.76	0.54	0.03
						1" Ice 1.00	0.75	0.05
						2" Ice		
KRY 112 489/2	B	From Leg	4.00	0.0000	97.00	No Ice 0.56	0.37	0.02

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	ft ²	ft ²	K
			0.00			1/2"	0.66	0.45	0.02
			0.00			Ice	0.76	0.54	0.03
						1" Ice	1.00	0.75	0.05
						2" Ice			
KRY 112 489/2	C	From Leg	4.00	0.0000	97.00	No Ice	0.56	0.37	0.02
			0.00			1/2"	0.66	0.45	0.02
			0.00			Ice	0.76	0.54	0.03
						1" Ice	1.00	0.75	0.05
						2" Ice			
Side Arm Mount [SO 702-3]	C	None		0.0000	97.00	No Ice	3.22	3.22	0.08
						1/2"	4.15	4.15	0.11
						Ice	5.08	5.08	0.15
						1" Ice	6.94	6.94	0.21
						2" Ice			
**									
7770.00 w/ Mount Pipe	A	From Leg	4.00	0.0000	87.00	No Ice	5.75	4.25	0.06
			0.00			1/2"	6.18	5.01	0.10
			2.00			Ice	6.61	5.71	0.16
						1" Ice	7.49	7.16	0.29
						2" Ice			
7770.00 w/ Mount Pipe	B	From Leg	4.00	0.0000	87.00	No Ice	5.75	4.25	0.06
			0.00			1/2"	6.18	5.01	0.10
			2.00			Ice	6.61	5.71	0.16
						1" Ice	7.49	7.16	0.29
						2" Ice			
7770.00 w/ Mount Pipe	C	From Leg	4.00	0.0000	87.00	No Ice	5.75	4.25	0.06
			0.00			1/2"	6.18	5.01	0.10
			2.00			Ice	6.61	5.71	0.16
						1" Ice	7.49	7.16	0.29
						2" Ice			
(2) LGP21401	A	From Leg	4.00	0.0000	87.00	No Ice	1.10	0.35	0.01
			0.00			1/2"	1.24	0.44	0.02
			0.00			Ice	1.38	0.54	0.03
						1" Ice	1.69	0.77	0.05
						2" Ice			
(2) LGP21401	B	From Leg	4.00	0.0000	87.00	No Ice	1.10	0.35	0.01
			0.00			1/2"	1.24	0.44	0.02
			0.00			Ice	1.38	0.54	0.03
						1" Ice	1.69	0.77	0.05
						2" Ice			
(2) LGP21401	C	From Leg	4.00	0.0000	87.00	No Ice	1.10	0.35	0.01
			0.00			1/2"	1.24	0.44	0.02
			0.00			Ice	1.38	0.54	0.03
						1" Ice	1.69	0.77	0.05
						2" Ice			
DC6-48-60-18-8F	B	From Leg	4.00	0.0000	87.00	No Ice	1.21	1.21	0.03
			0.00			1/2"	1.89	1.89	0.05
			2.00			Ice	2.11	2.11	0.08
						1" Ice	2.57	2.57	0.14
						2" Ice			
80010965 w/ Mount Pipe	A	From Leg	4.00	0.0000	87.00	No Ice	14.05	7.63	0.13
			0.00			1/2"	14.69	8.90	0.22
			2.00			Ice	15.30	9.96	0.33
						1" Ice	16.53	11.92	0.57
						2" Ice			
80010965 w/ Mount Pipe	B	From Leg	4.00	0.0000	87.00	No Ice	14.05	7.63	0.13
			0.00			1/2"	14.69	8.90	0.22
			2.00			Ice	15.30	9.96	0.33
						1" Ice	16.53	11.92	0.57
						2" Ice			
80010966 w/ Mount Pipe	C	From Leg	4.00	0.0000	87.00	No Ice	17.60	9.64	0.15
			0.00			1/2"	18.33	11.15	0.26
			2.00			Ice	19.07	12.70	0.39
						1" Ice	20.49	15.03	0.68
						2" Ice			

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Lateral						ft	ft
			ft	ft	°	ft	ft ²	ft ²	K
(2) HPA65R-BU6A w/ Mount Pipe	A	From Leg	4.00	0.0000	87.00	No Ice	8.09	7.19	0.07
			0.00			1/2"	8.64	8.36	0.14
			2.00			Ice	9.16	9.24	0.21
						1" Ice	10.22	11.05	0.39
						2" Ice			
(2) HPA65R-BU6A w/ Mount Pipe	B	From Leg	4.00	0.0000	87.00	No Ice	8.09	7.19	0.07
			0.00			1/2"	8.64	8.36	0.14
			2.00			Ice	9.16	9.24	0.21
						1" Ice	10.22	11.05	0.39
						2" Ice			
(2) HPA65R-BU8A w/ Mount Pipe	C	From Leg	4.00	0.0000	87.00	No Ice	11.47	10.18	0.09
			0.00			1/2"	12.19	11.70	0.18
			2.00			Ice	12.92	13.25	0.28
						1" Ice	14.29	15.59	0.51
						2" Ice			
RRUS 4449 B5/B12	A	From Leg	4.00	0.0000	87.00	No Ice	1.97	1.41	0.07
			0.00			1/2"	2.14	1.56	0.09
			2.00			Ice	2.33	1.73	0.11
						1" Ice	2.72	2.07	0.16
						2" Ice			
RRUS 4449 B5/B12	B	From Leg	4.00	0.0000	87.00	No Ice	1.97	1.41	0.07
			0.00			1/2"	2.14	1.56	0.09
			2.00			Ice	2.33	1.73	0.11
						1" Ice	2.72	2.07	0.16
						2" Ice			
RRUS 4449 B5/B12	C	From Leg	4.00	0.0000	87.00	No Ice	1.97	1.41	0.07
			0.00			1/2"	2.14	1.56	0.09
			2.00			Ice	2.33	1.73	0.11
						1" Ice	2.72	2.07	0.16
						2" Ice			
(2) RRUS 4415 B25	B	From Leg	4.00	0.0000	87.00	No Ice	1.64	0.68	0.04
			0.00			1/2"	1.80	0.79	0.06
			2.00			Ice	1.97	0.91	0.07
						1" Ice	2.33	1.18	0.11
						2" Ice			
RRUS 4415 B25	C	From Leg	4.00	0.0000	87.00	No Ice	1.64	0.68	0.04
			0.00			1/2"	1.80	0.79	0.06
			2.00			Ice	1.97	0.91	0.07
						1" Ice	2.33	1.18	0.11
						2" Ice			
(3) RRUS 8843 B2/B66A	C	From Leg	4.00	0.0000	87.00	No Ice	1.64	1.35	0.07
			0.00			1/2"	1.80	1.50	0.09
			2.00			Ice	1.97	1.65	0.11
						1" Ice	2.32	1.99	0.16
						2" Ice			
(2) DC6-48-60-18-8C-EV	C	From Leg	4.00	0.0000	87.00	No Ice	2.74	2.74	0.03
			0.00			1/2"	2.96	2.96	0.05
			2.00			Ice	3.20	3.20	0.08
						1" Ice	3.68	3.68	0.15
						2" Ice			
Platform Mount [LP 304-1]	C	None		0.0000	87.00	No Ice	17.46	17.46	1.35
						1/2"	22.44	22.44	1.62
						Ice	27.42	27.42	1.90
						1" Ice	37.38	37.38	2.45
						2" Ice			
** RRUS 11 B12	A	From Leg	2.00	0.0000	85.00	No Ice	2.83	1.18	0.05
			0.00			1/2"	3.04	1.33	0.07
			0.00			Ice	3.26	1.48	0.10
						1" Ice	3.71	1.83	0.15
						2" Ice			
RRUS 11 B12	B	From Leg	2.00	0.0000	85.00	No Ice	2.83	1.18	0.05
			0.00			1/2"	3.04	1.33	0.07
			0.00			Ice	3.26	1.48	0.10
						1" Ice	3.71	1.83	0.15
						2" Ice			

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
RRUS 11 B12	C	From Leg	2.00 0.00 0.00	0.0000	85.00	2" Ice			
						No Ice	2.83	1.18	0.05
						1/2"	3.04	1.33	0.07
						Ice	3.26	1.48	0.10
						1" Ice	3.71	1.83	0.15
Side Arm Mount [SO 102-3]	C	None		0.0000	85.00	2" Ice			
						No Ice	3.00	3.00	0.08
						1/2"	3.48	3.48	0.11
						Ice	3.96	3.96	0.14
						1" Ice	4.92	4.92	0.20
** 742 213 w/ Mount Pipe	A	From Leg	1.00 0.00 2.00	0.0000	75.00	2" Ice			
						No Ice	5.37	4.62	0.05
						1/2"	5.95	6.00	0.09
						Ice	6.50	6.98	0.15
						1" Ice	7.61	8.85	0.28
742 213 w/ Mount Pipe	B	From Leg	1.00 0.00 2.00	0.0000	75.00	2" Ice			
						No Ice	5.37	4.62	0.05
						1/2"	5.95	6.00	0.09
						Ice	6.50	6.98	0.15
						1" Ice	7.61	8.85	0.28
742 213 w/ Mount Pipe	C	From Leg	1.00 0.00 2.00	0.0000	75.00	2" Ice			
						No Ice	5.37	4.62	0.05
						1/2"	5.95	6.00	0.09
						Ice	6.50	6.98	0.15
						1" Ice	7.61	8.85	0.28
Pipe Mount [PM 601-3]	C	None		0.0000	75.00	2" Ice			
						No Ice	4.39	4.39	0.20
						1/2"	5.48	5.48	0.24
						Ice	6.57	6.57	0.28
						1" Ice	8.75	8.75	0.36

Tower Pressures - No Ice

$G_H = 1.100$

Section Elevation ft	z ft	K _z	q _z ksf	A _G ft ²	F a c e	A _F ft ²	A _R ft ²	A _{leg} ft ²	Leg %	C _A A _A In Face ft ²	C _A A _A Out Face ft ²
L1 115.50-83.92	99.22	1.264	0	99.320	A	0.000	99.320	99.320	100.00	0.000	0.000
					B	0.000	99.320		100.00	0.000	0.000
					C	0.000	99.320		100.00	0.000	2.843
L2 83.92-41.25	62.08	1.145	0	169.405	A	0.000	169.405	169.405	100.00	0.000	0.000
					B	0.000	169.405		100.00	0.000	0.000
					C	0.000	169.405		100.00	0.000	13.484
L3 41.25-0.00	20.72	0.909	0	202.030	A	0.000	202.030	202.030	100.00	0.000	0.000
					B	0.000	202.030		100.00	0.000	0.000
					C	0.000	202.030		100.00	0.000	13.035

Tower Pressure - With Ice

$G_H = 1.100$

Section Elevation ft	z ft	K _z	q _z ksf	t _z in	A _G ft ²	F a c e	A _F ft ²	A _R ft ²	A _{leg} ft ²	Leg %	C _A A _A In Face ft ²	C _A A _A Out Face ft ²
L1 115.50-83.92	99.22	1.264	0	1.4234	106.812	A	0.000	106.812	106.812	100.00	0.000	0.000
						B	0.000	106.812	106.812	100.00	0.000	0.000
						C	0.000	106.812	106.812	100.00	0.000	10.313
L2 83.92-41.25	62.08	1.145	0	1.3582	179.527	A	0.000	179.527	179.527	100.00	0.000	0.000
						B	0.000	179.527	179.527	100.00	0.000	0.000
						C	0.000	179.527	179.527	100.00	0.000	49.925
L3 41.25-0.00	20.72	0.909	0	1.2170	211.367	A	0.000	211.367	211.367	100.00	0.000	0.000
						B	0.000	211.367	211.367	100.00	0.000	0.000
						C	0.000	211.367	211.367	100.00	0.000	46.649

Tower Pressure - Service

G_H = 1.100

Section Elevation ft	z ft	K _z	q _z ksf	A _G ft ²	F a c e	A _F ft ²	A _R ft ²	A _{leg} ft ²	Leg %	C _A A _A In Face ft ²	C _A A _A Out Face ft ²
L1 115.50-83.92	99.22	1.264	0	99.320	A	0.000	99.320	99.320	100.00	0.000	0.000
					B	0.000	99.320	99.320	100.00	0.000	0.000
					C	0.000	99.320	99.320	100.00	0.000	2.843
L2 83.92-41.25	62.08	1.145	0	169.405	A	0.000	169.405	169.405	100.00	0.000	0.000
					B	0.000	169.405	169.405	100.00	0.000	0.000
					C	0.000	169.405	169.405	100.00	0.000	13.484
L3 41.25-0.00	20.72	0.909	0	202.030	A	0.000	202.030	202.030	100.00	0.000	0.000
					B	0.000	202.030	202.030	100.00	0.000	0.000
					C	0.000	202.030	202.030	100.00	0.000	13.035

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

Comb. No.	Description
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	115.5 - 83.92	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-17.17	0.27	-1.29
			Max. Mx	8	-8.32	-302.51	-0.00
			Max. My	2	-8.36	-0.06	284.74
			Max. Vy	20	-14.51	302.31	-0.01
			Max. Vx	14	13.92	-0.05	-284.69
			Max. Torque	25			2.64
L2	83.92 - 41.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-43.89	10.91	-9.18
			Max. Mx	20	-22.15	1361.68	-3.65
			Max. My	14	-22.18	3.74	-1313.87
			Max. Vy	20	-30.07	1361.68	-3.65
			Max. Vx	14	29.34	3.74	-1313.87
			Max. Torque	25			4.80
L3	41.25 - 0	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-69.54	21.09	-15.07
			Max. Mx	20	-38.95	3026.17	-6.17
			Max. My	14	-38.95	6.68	-2943.26
			Max. Vy	20	-39.00	3026.17	-6.17
			Max. Vx	14	38.29	6.68	-2943.26
			Max. Torque	25			6.21

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	26	69.54	-0.00	0.00
	Max. H _x	21	29.23	38.99	-0.04
	Max. H _z	2	38.97	-0.04	38.27
	Max. M _x	2	2938.14	-0.04	38.27
	Max. M _z	8	3020.03	-38.98	0.04
	Max. Torsion	25	6.21	19.46	33.12
	Min. Vert	21	29.23	38.99	-0.04

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
	Min. H _x	9	29.23	-38.99	0.04
	Min. H _z	14	38.97	0.04	-38.27
	Min. M _x	14	-2943.26	0.04	-38.27
	Min. M _z	20	-3026.17	38.98	-0.04
	Min. Torsion	13	-6.16	-19.46	-33.12

Tower Mast Reaction Summary

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
Dead Only	32.48	-0.00	0.00	2.10	2.52	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	38.97	0.04	-38.27	-2938.14	-0.54	-5.02
0.9 Dead+1.0 Wind 0 deg - No Ice	29.23	0.04	-38.27	-2929.70	-1.31	-5.02
1.2 Dead+1.0 Wind 30 deg - No Ice	38.97	19.53	-33.16	-2545.95	-1511.66	-2.49
0.9 Dead+1.0 Wind 30 deg - No Ice	29.23	19.53	-33.16	-2538.77	-1507.76	-2.50
1.2 Dead+1.0 Wind 60 deg - No Ice	38.97	33.78	-19.17	-1470.90	-2616.90	0.69
0.9 Dead+1.0 Wind 60 deg - No Ice	29.23	33.78	-19.17	-1467.02	-2609.57	0.69
1.2 Dead+1.0 Wind 90 deg - No Ice	38.97	38.98	-0.04	-1.05	-3020.03	3.67
0.9 Dead+1.0 Wind 90 deg - No Ice	29.23	38.99	-0.04	-1.68	-3011.49	3.67
1.2 Dead+1.0 Wind 120 deg - No Ice	38.97	33.74	19.10	1469.78	-2613.29	5.66
0.9 Dead+1.0 Wind 120 deg - No Ice	29.23	33.74	19.10	1464.62	-2605.98	5.67
1.2 Dead+1.0 Wind 150 deg - No Ice	38.97	19.46	33.12	2547.47	-1505.41	6.16
0.9 Dead+1.0 Wind 150 deg - No Ice	29.23	19.46	33.12	2539.00	-1501.53	6.16
1.2 Dead+1.0 Wind 180 deg - No Ice	38.97	-0.04	38.27	2943.26	6.67	5.02
0.9 Dead+1.0 Wind 180 deg - No Ice	29.23	-0.04	38.27	2933.53	5.89	5.02
1.2 Dead+1.0 Wind 210 deg - No Ice	38.97	-19.53	33.16	2551.09	1517.80	2.53
0.9 Dead+1.0 Wind 210 deg - No Ice	29.23	-19.53	33.16	2542.60	1512.34	2.53
1.2 Dead+1.0 Wind 240 deg - No Ice	38.97	-33.78	19.17	1476.03	2623.03	-0.64
0.9 Dead+1.0 Wind 240 deg - No Ice	29.23	-33.78	19.17	1470.85	2614.15	-0.65
1.2 Dead+1.0 Wind 270 deg - No Ice	38.97	-38.98	0.04	6.17	3026.17	-3.66
0.9 Dead+1.0 Wind 270 deg - No Ice	29.23	-38.99	0.04	5.51	3016.07	-3.67
1.2 Dead+1.0 Wind 300 deg - No Ice	38.97	-33.74	-19.10	-1464.65	2619.41	-5.70
0.9 Dead+1.0 Wind 300 deg - No Ice	29.23	-33.74	-19.10	-1460.79	2610.56	-5.71
1.2 Dead+1.0 Wind 330 deg - No Ice	38.97	-19.46	-33.12	-2542.36	1511.55	-6.20
0.9 Dead+1.0 Wind 330 deg - No Ice	29.23	-19.46	-33.12	-2535.18	1506.11	-6.21
1.2 Dead+1.0 Ice+1.0 Temp	69.54	0.00	-0.00	15.07	21.09	-0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	69.54	0.00	-5.29	-394.87	21.22	-1.04
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	69.54	2.68	-4.58	-339.94	-187.68	-0.53

Load Combination	Vertical	Shear _x	Shear _z	Overturning Moment, M _x	Overturning Moment, M _z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	69.54	4.64	-2.65	-189.86	-340.59	0.13
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	69.54	5.36	-0.00	15.16	-396.56	0.75
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	69.54	4.64	2.65	220.20	-340.57	1.17
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	69.54	2.68	4.58	370.30	-187.63	1.28
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	69.54	-0.00	5.29	425.25	21.27	1.04
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	69.54	-2.68	4.58	370.32	230.17	0.53
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	69.54	-4.64	2.65	220.24	383.08	-0.13
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	69.54	-5.36	0.00	15.21	439.05	-0.75
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	69.54	-4.64	-2.65	-189.82	383.06	-1.17
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	69.54	-2.68	-4.58	-339.92	230.13	-1.28
Dead+Wind 0 deg - Service	32.48	0.01	-7.68	-586.67	1.83	-1.01
Dead+Wind 30 deg - Service	32.48	3.92	-6.65	-508.15	-300.73	-0.50
Dead+Wind 60 deg - Service	32.48	6.78	-3.85	-292.89	-522.03	0.13
Dead+Wind 90 deg - Service	32.48	7.82	-0.01	1.41	-602.76	0.74
Dead+Wind 120 deg - Service	32.48	6.77	3.83	295.91	-521.31	1.14
Dead+Wind 150 deg - Service	32.48	3.90	6.64	511.69	-299.48	1.24
Dead+Wind 180 deg - Service	32.48	-0.01	7.68	590.93	3.27	1.01
Dead+Wind 210 deg - Service	32.48	-3.92	6.65	512.41	305.84	0.51
Dead+Wind 240 deg - Service	32.48	-6.78	3.85	297.16	527.13	-0.13
Dead+Wind 270 deg - Service	32.48	-7.82	0.01	2.85	607.87	-0.74
Dead+Wind 300 deg - Service	32.48	-6.77	-3.83	-291.64	526.41	-1.14
Dead+Wind 330 deg - Service	32.48	-3.90	-6.64	-507.42	304.58	-1.24

Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.00	-32.48	0.00	0.00	32.48	-0.00	0.000%
2	0.04	-38.97	-38.27	-0.04	38.97	38.27	0.000%
3	0.04	-29.23	-38.27	-0.04	29.23	38.27	0.001%
4	19.53	-38.97	-33.16	-19.53	38.97	33.16	0.000%
5	19.53	-29.23	-33.16	-19.53	29.23	33.16	0.000%
6	33.78	-38.97	-19.17	-33.78	38.97	19.17	0.000%
7	33.78	-29.23	-19.17	-33.78	29.23	19.17	0.000%
8	38.99	-38.97	-0.04	-38.98	38.97	0.04	0.002%
9	38.99	-29.23	-0.04	-38.99	29.23	0.04	0.001%
10	33.74	-38.97	19.10	-33.74	38.97	-19.10	0.000%
11	33.74	-29.23	19.10	-33.74	29.23	-19.10	0.000%
12	19.46	-38.97	33.12	-19.46	38.97	-33.12	0.000%
13	19.46	-29.23	33.12	-19.46	29.23	-33.12	0.000%
14	-0.04	-38.97	38.27	0.04	38.97	-38.27	0.000%
15	-0.04	-29.23	38.27	0.04	29.23	-38.27	0.001%
16	-19.53	-38.97	33.16	19.53	38.97	-33.16	0.000%
17	-19.53	-29.23	33.16	19.53	29.23	-33.16	0.000%
18	-33.78	-38.97	19.17	33.78	38.97	-19.17	0.000%
19	-33.78	-29.23	19.17	33.78	29.23	-19.17	0.000%
20	-38.99	-38.97	0.04	38.98	38.97	-0.04	0.002%

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
21	-38.99	-29.23	0.04	38.99	29.23	-0.04	0.001%
22	-33.74	-38.97	-19.10	33.74	38.97	19.10	0.000%
23	-33.74	-29.23	-19.10	33.74	29.23	19.10	0.000%
24	-19.46	-38.97	-33.12	19.46	38.97	33.12	0.000%
25	-19.46	-29.23	-33.12	19.46	29.23	33.12	0.000%
26	0.00	-69.54	0.00	-0.00	69.54	0.00	0.001%
27	0.00	-69.54	-5.29	-0.00	69.54	5.29	0.000%
28	2.68	-69.54	-4.58	-2.68	69.54	4.58	0.000%
29	4.64	-69.54	-2.65	-4.64	69.54	2.65	0.000%
30	5.36	-69.54	-0.00	-5.36	69.54	0.00	0.000%
31	4.64	-69.54	2.65	-4.64	69.54	-2.65	0.000%
32	2.68	-69.54	4.58	-2.68	69.54	-4.58	0.000%
33	-0.00	-69.54	5.29	0.00	69.54	-5.29	0.000%
34	-2.68	-69.54	4.58	2.68	69.54	-4.58	0.000%
35	-4.64	-69.54	2.65	4.64	69.54	-2.65	0.000%
36	-5.36	-69.54	0.00	5.36	69.54	-0.00	0.000%
37	-4.64	-69.54	-2.65	4.64	69.54	2.65	0.000%
38	-2.68	-69.54	-4.58	2.68	69.54	4.58	0.000%
39	0.01	-32.48	-7.68	-0.01	32.48	7.68	0.002%
40	3.92	-32.48	-6.65	-3.92	32.48	6.65	0.002%
41	6.78	-32.48	-3.85	-6.78	32.48	3.85	0.002%
42	7.82	-32.48	-0.01	-7.82	32.48	0.01	0.002%
43	6.77	-32.48	3.83	-6.77	32.48	-3.83	0.002%
44	3.90	-32.48	6.65	-3.90	32.48	-6.64	0.002%
45	-0.01	-32.48	7.68	0.01	32.48	-7.68	0.002%
46	-3.92	-32.48	6.65	3.92	32.48	-6.65	0.002%
47	-6.78	-32.48	3.85	6.78	32.48	-3.85	0.002%
48	-7.82	-32.48	0.01	7.82	32.48	-0.01	0.002%
49	-6.77	-32.48	-3.83	6.77	32.48	3.83	0.002%
50	-3.90	-32.48	-6.65	3.90	32.48	6.64	0.002%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	6	0.00000001	0.00000001
2	Yes	10	0.00000001	0.00004395
3	Yes	9	0.00000001	0.00014029
4	Yes	10	0.00000001	0.00014881
5	Yes	10	0.00000001	0.00011816
6	Yes	11	0.00000001	0.00003377
7	Yes	10	0.00000001	0.00012300
8	Yes	9	0.00000001	0.00014541
9	Yes	9	0.00000001	0.00011957
10	Yes	11	0.00000001	0.00004173
11	Yes	11	0.00000001	0.00003269
12	Yes	10	0.00000001	0.00013952
13	Yes	10	0.00000001	0.00011068
14	Yes	10	0.00000001	0.00004487
15	Yes	9	0.00000001	0.00014289
16	Yes	11	0.00000001	0.00003692
17	Yes	10	0.00000001	0.00013467
18	Yes	11	0.00000001	0.00003614
19	Yes	10	0.00000001	0.00013153
20	Yes	9	0.00000001	0.00014875
21	Yes	9	0.00000001	0.00012217
22	Yes	10	0.00000001	0.00013876
23	Yes	10	0.00000001	0.00010982
24	Yes	11	0.00000001	0.00004117
25	Yes	11	0.00000001	0.00003231
26	Yes	6	0.00000001	0.00002013
27	Yes	9	0.00000001	0.00011353
28	Yes	9	0.00000001	0.00011294
29	Yes	9	0.00000001	0.00011392
30	Yes	9	0.00000001	0.00011504

31	Yes	9	0.0000001	0.00012061
32	Yes	9	0.0000001	0.00012318
33	Yes	9	0.0000001	0.00012467
34	Yes	9	0.0000001	0.00013059
35	Yes	9	0.0000001	0.00013222
36	Yes	9	0.0000001	0.00012847
37	Yes	9	0.0000001	0.00012628
38	Yes	9	0.0000001	0.00012110
39	Yes	8	0.0000001	0.00009106
40	Yes	8	0.0000001	0.00008061
41	Yes	8	0.0000001	0.00008224
42	Yes	8	0.0000001	0.00009268
43	Yes	8	0.0000001	0.00009217
44	Yes	8	0.0000001	0.00008441
45	Yes	8	0.0000001	0.00009211
46	Yes	8	0.0000001	0.00008441
47	Yes	8	0.0000001	0.00008464
48	Yes	8	0.0000001	0.00009377
49	Yes	8	0.0000001	0.00008526
50	Yes	8	0.0000001	0.00009091

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	115.5 - 83.92	5.788	48	0.4043	0.0016
L2	89.25 - 41.25	3.656	48	0.3609	0.0017
L3	48 - 0	1.109	48	0.2058	0.0007

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
117.00	BXA-171063-8BF-2 w/ Mount Pipe	48	5.788	0.4043	0.0016	124938
104.00	DB411-A	48	4.833	0.3891	0.0017	54321
97.00	LNx-6515DS-VTM w/ Mount Pipe	48	4.265	0.3776	0.0017	33767
87.00	7770.00 w/ Mount Pipe	48	3.484	0.3550	0.0017	22187
85.00	RRUS 11 B12	48	3.334	0.3495	0.0016	20903
75.00	742 213 w/ Mount Pipe	48	2.621	0.3170	0.0014	16251

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	115.5 - 83.92	28.789	20	2.0114	0.0083
L2	89.25 - 41.25	18.187	20	1.7941	0.0085
L3	48 - 0	5.520	20	1.0242	0.0034

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
117.00	BXA-171063-8BF-2 w/ Mount Pipe	20	28.789	2.0114	0.0083	25177
104.00	DB411-A	20	24.043	1.9352	0.0087	10946
97.00	LNx-6515DS-VTM w/ Mount Pipe	20	21.215	1.8773	0.0087	6804
87.00	7770.00 w/ Mount Pipe	20	17.334	1.7651	0.0084	4470
85.00	RRUS 11 B12	20	16.588	1.7375	0.0082	4211
75.00	742 213 w/ Mount Pipe	20	13.038	1.5761	0.0072	3273

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L_u ft	KI/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
L1	115.5 - 83.92 (1)	TP40.829x32.25x0.25	31.58	0.00	0.0	31.500 5	-8.32	1704.79	0.005
L2	83.92 - 41.25 (2)	TP51.92x38.8811x0.3125	48.00	0.00	0.0	50.085 0	-22.15	2674.31	0.008
L3	41.25 - 0 (3)	TP62.5x49.4614x0.375	48.00	0.00	0.0	75.015 9	-38.95	3879.40	0.010

Pole Bending Design Data

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L1	115.5 - 83.92 (1)	TP40.829x32.25x0.25	302.51	1361.13	0.222	0.00	1361.13	0.000
L2	83.92 - 41.25 (2)	TP51.92x38.8811x0.3125	1361.68	2716.25	0.501	0.00	2716.25	0.000
L3	41.25 - 0 (3)	TP62.5x49.4614x0.375	3026.18	4919.18	0.615	0.00	4919.18	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	115.5 - 83.92 (1)	TP40.829x32.25x0.25	14.51	552.83	0.026	0.01	1902.90	0.000
L2	83.92 - 41.25 (2)	TP51.92x38.8811x0.3125	30.07	878.99	0.034	2.96	3848.45	0.001
L3	41.25 - 0 (3)	TP62.5x49.4614x0.375	39.00	1316.53	0.030	3.66	7194.44	0.001

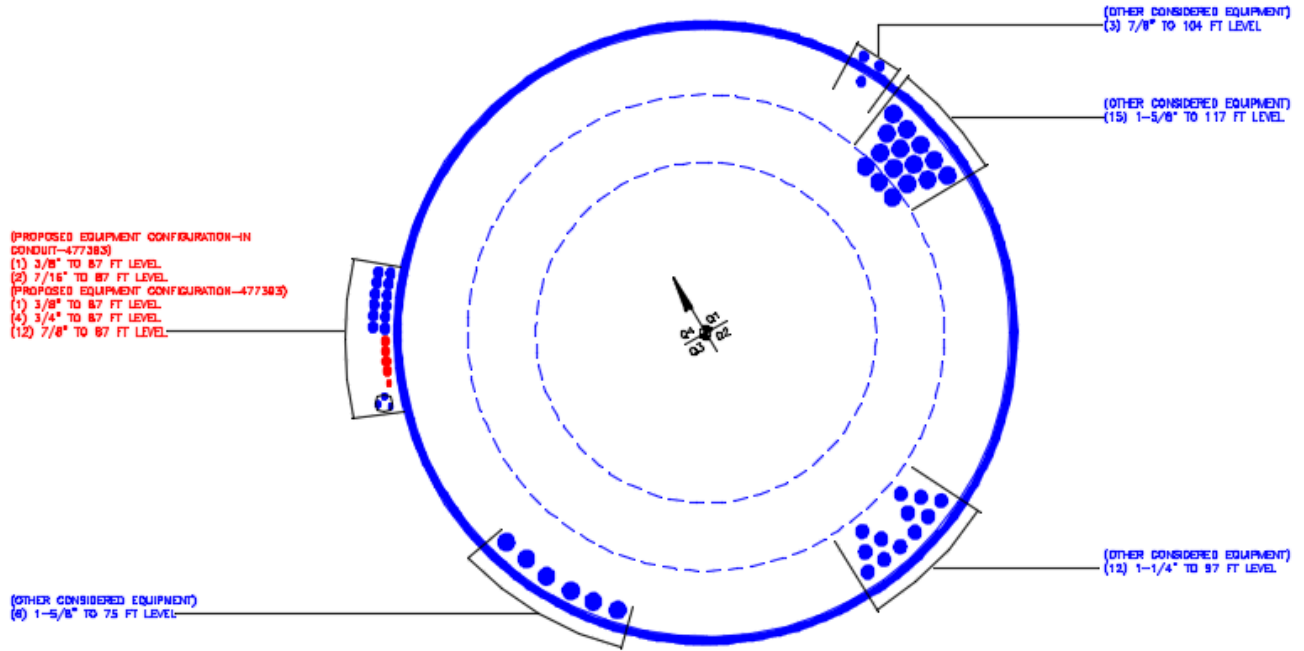
Pole Interaction Design Data

Section No.	Elevation ft	Ratio P_u ϕP_n	Ratio M_{ux} ϕM_{nx}	Ratio M_{uy} ϕM_{ny}	Ratio V_u ϕV_n	Ratio T_u ϕT_n	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	115.5 - 83.92 (1)	0.005	0.222	0.000	0.026	0.000	0.228 ✓	1.050	4.8.2 ✓
L2	83.92 - 41.25 (2)	0.008	0.501	0.000	0.034	0.001	0.511 ✓	1.050	4.8.2 ✓
L3	41.25 - 0 (3)	0.010	0.615	0.000	0.030	0.001	0.626 ✓	1.050	4.8.2 ✓

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	115.5 - 83.92	Pole	TP40.829x32.25x0.25	1	-8.32	1790.03	21.7	Pass
L2	83.92 - 41.25	Pole	TP51.92x38.8811x0.3125	2	-22.15	2808.03	48.6	Pass
L3	41.25 - 0	Pole	TP62.5x49.4614x0.375	3	-38.95	4073.37	59.6	Pass
Summary								
Pole (L3)							59.6	Pass
RATING =							59.6	Pass

APPENDIX B
BASE LEVEL DRAWING



BUSINESS UNIT: 806367 TOWER ID: C_BASELEVEL

APPENDIX C
ADDITIONAL CALCULATIONS

Monopole Base Plate Connection

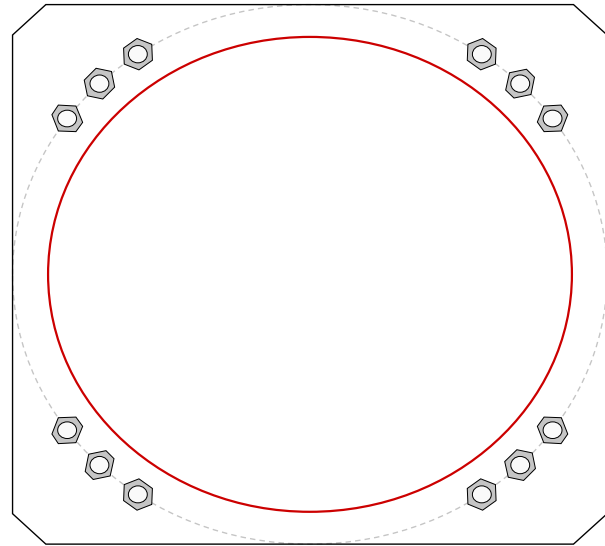


Site Info	
BU #	806367
Site Name	HRT 046
Order #	

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
l_{ar} (in)	1.75

Applied Loads	
Moment (kip-ft)	3026.17
Axial Force (kips)	38.95
Shear Force (kips)	39.00

*TIA-222-H Section 15.5 Applied



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

Anchor Rod Data
(12) 2-1/4" ϕ bolts (A615-75 X; $F_y=75$ ksi, $F_u=100$ ksi) on 71" BC <i>Anchor Spacing: 6 in</i>
Base Plate Data
71" OD x 2.5" Plate (A572-60; $F_y=60$ ksi, $F_u=75$ ksi)
Stiffener Data
N/A
Pole Data
62.5" x 0.375" 12-sided pole (A572-65; $F_y=65$ ksi, $F_u=80$ ksi)

Anchor Rod Summary	<i>(units of kips, kip-in)</i>	
$Pu_c = 173.66$	$\phi Pn_c = 243.75$	Stress Rating
$Vu = 3.25$	$\phi Vn = 73.13$	68.0%
$Mu = n/a$	$\phi Mn = n/a$	Pass
Base Plate Summary		
Max Stress (ksi):	34.98	(Flexural)
Allowable Stress (ksi):	54	
Stress Rating:	61.7%	Pass

Pier and Pad Foundation



BU #: 806367
 Site Name:
 App. Number:

TIA-222 Revision: H
 Tower Type: Monopole

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

Superstructure Analysis Reactions		
Compression, P_{comp} :	39	kips
Base Shear, V_{u_comp} :	39	kips
Moment, M_u :	3026	ft-kips
Tower Height, H :	115.5	ft
BP Dist. Above Fdn, bp_{dist} :	6	in
Bolt Circle / Bearing Plate Width, BC :	71	in

Foundation Analysis Checks				
	Capacity	Demand	Rating*	Check
<i>Lateral (Sliding) (kips)</i>	115.06	39.00	32.3%	Pass
<i>Bearing Pressure (ksf)</i>	9.00	2.29	25.4%	Pass
<i>Overtuning (kip*ft)</i>	4285.90	3201.50	74.7%	Pass
<i>Pad Flexure (kip*ft)</i>	3946.25	1507.29	36.4%	Pass
<i>Pad Shear - 1-way (kips)</i>	1072.17	203.45	18.1%	Pass
<i>Pad Shear - 2-way (Comp) (ksi)</i>	0.164	0.002	1.1%	Pass
<i>Flexural 2-way (Comp) (kip*ft)</i>	3730.81	0.00	0.0%	Pass

*Rating per TIA-222-H Section 15.5

Soil Rating*:	74.7%
Structural Rating*:	36.4%

Pad Properties		
Depth, D :	3.5	ft
Pad Width, W :	25	ft
Pad Thickness, T :	4	ft
Pad Rebar Size (Bottom), Sp :	8	
Pad Rebar Quantity (Bottom), mp :	26	
Pad Clear Cover, cc_{pad} :	3	in

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

Soil Properties		
Total Soil Unit Weight, γ :	120	pcf
Ultimate Gross Bearing, Q_{ult} :	12.000	ksf
Cohesion, C_u :		ksf
Friction Angle, ϕ :	36	degrees
SPT Blow Count, N_{blows} :	33	
Base Friction, μ :	0.4	
Neglected Depth, N :	3.33	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, gw :	8	ft

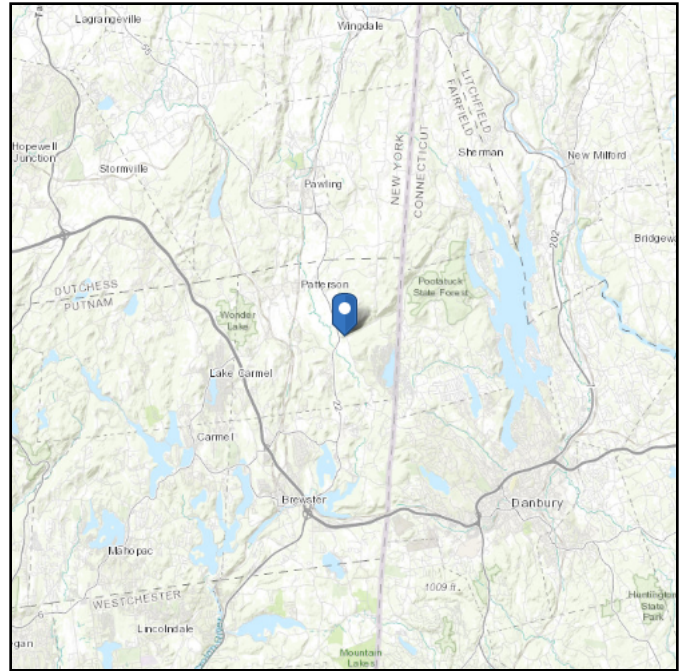
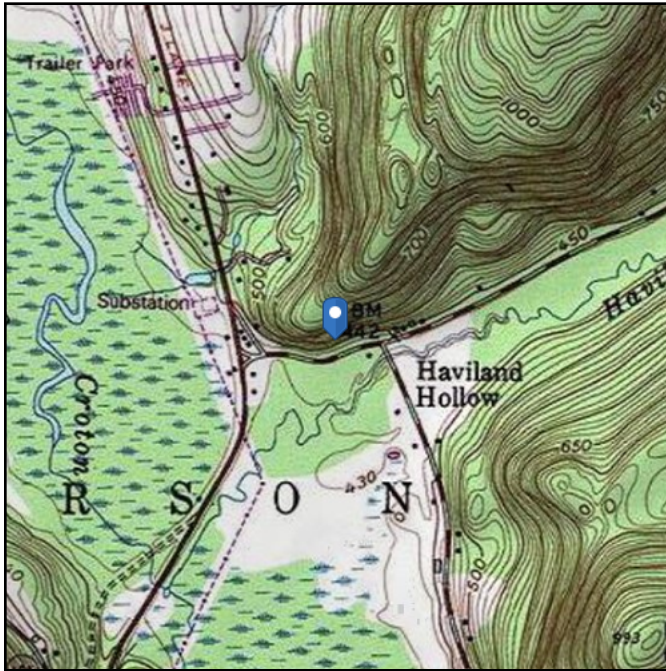
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ASCE 7 Hazards Report

Address:
No Address at This Location

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

Elevation: 484.48 ft (NAVD 88)
Latitude: 41.484594
Longitude: -73.572447



Wind

Results:

Wind Speed:	115 Vmph
10-year MRI	76 Vmph
25-year MRI	84 Vmph
50-year MRI	90 Vmph
100-year MRI	96 Vmph

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

Date Accessed: Wed Mar 27 2019

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

Site is not in a hurricane-prone region as defined in ASCE/SEI 7-10 Section 26.2.

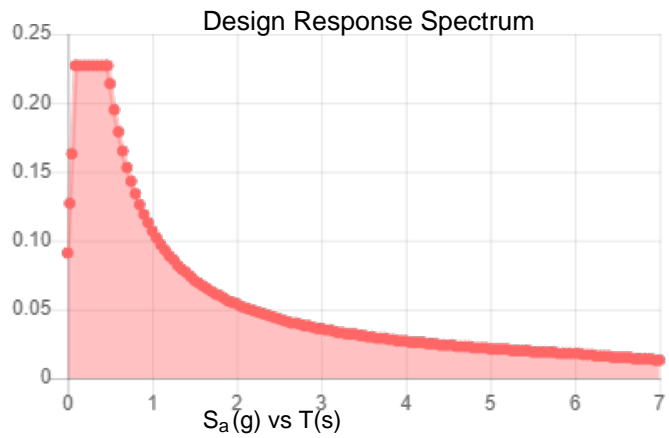
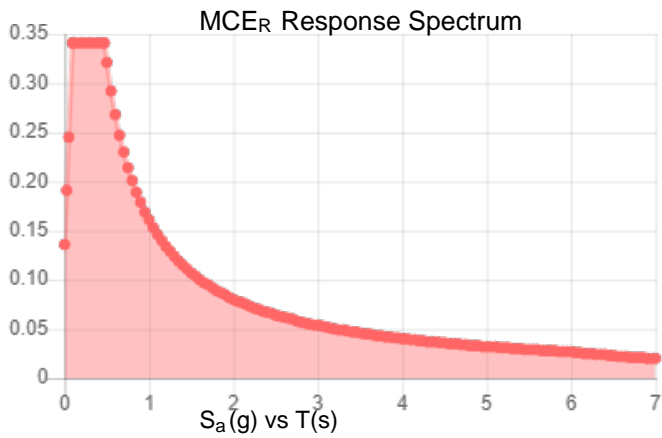
Mountainous terrain, gorges, ocean promontories, and special wind regions should be examined for unusual wind conditions.

Site Soil Class: D - Stiff Soil

Results:

S_s :	0.213	S_{DS} :	0.227
S_1 :	0.067	S_{D1} :	0.107
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.115
S_{MS} :	0.341	PGA _M :	0.181
S_{M1} :	0.161	F _{PGA} :	1.569
		I_e :	1

Seismic Design Category B



Data Accessed:

Wed Mar 27 2019

Date Source:

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

Ice

Results:

Ice Thickness: 0.75 in.

Concurrent Temperature: 15 F

Gust Speed: 40 mph

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

Date Accessed: Wed Mar 27 2019

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

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

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

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Exhibit E

Mount Analysis

April 23, 2020

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
Structures@tepgroup.net

Subject: Mount Analysis

Carrier Designation:

AT&T Mobility Reconfiguration

Client Site Number: CT5386

Client Site Name: CT5386

Crown Castle Designation:

Crown Castle BU Number: 806367

Crown Castle Site Name: HRT 046 943209

Crown Castle JDE Job Number: 605363

Crown Castle Order Number: 517104 Rev. 0

Engineering Firm Designation:

TEP Project Number: 217454.407803

Site Data:

Maple Ave West, Haddam, Middlesex County, CT 06441

Latitude 41° 29' 4.54", Longitude -72° 34' 20.81"

Structure Information:

Tower Height & Type: 115.5± ft Monopole

Mount Elevation: 87.0 ft

Mount Width & Type: 14.5 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

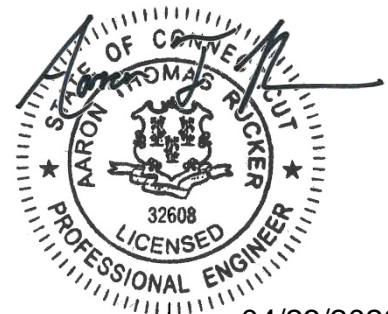
Sufficient Capacity

The analysis has been performed in accordance with the 2018 International Building Code based upon an ultimate 3-second gust wind speed of 130 mph. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Daniel Cisneros, E.I. / SDJ

Respectfully submitted by:

Aaron T. Rucker, P.E.
Structural Division Manager



04/23/2020

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ASCE7 Hazard Tool Wind Maps

1) INTRODUCTION

The mount is an existing 14.5-ft Low Profile Platform mount, mapped by Jacobs Engineering Group, Inc.

2) ANALYSIS CRITERIA

Building Code:	2018 IBC
TIA-222 Revision:	TIA-222-H
Risk Category:	II
Ultimate Wind Speed:	130 mph
Exposure Category:	B
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:	0.214
Seismic S₁:	0.056
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
87.0	89.0	3	Powerwave Technologies	7770.00	Low Profile Platform
		4	CCI Antennas	HPA-65R-BU6A	
		2	CCI Antennas	HPA-65R-BU8A	
		2	Kathrein	800-10965	
		1	Kathrein	800-10966	
		3	Ericsson	RRUS 4415 B25	
		3	Ericsson	RRUS 4449 B5/B12	
		3	Ericsson	RRUS 8843 B2/B66A	
		2	Raycap	DC6-48-60-18-8C-EV	
		1	Raycap	DC6-48-60-18-8F	
		6	Powerwave Technologies	LGP21401	

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

Document	Remarks	Reference	Source
Mount Mapping	Jacobs Engineering Group	8252668	CCIsites
Previous Mount Analysis	Jacobs Engineering Group	8300344	CCIsites
Loading Application	AT&T Mobility	Order 517104 Rev. 0	CCIsites

3.1) Analysis Method

RISA-3D (Version 17.0.1), 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 Directive – R14.1*.

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	FF-TH	87.0	21.1	Pass
1	Support Arms	SA-3	87.0	52.2	Pass
1	Grating Support	GSIP-3A	87.0	20.5	Pass
1	Internals	GSI-3A	87.0	18.3	Pass
1	Mount Pipes	MP-12	87.0	55.9	Pass
1	Threaded Rods	TR-3	87.0	63.2	Pass
2	Connection Bolts	-	87.0	81.5	Pass
2	Connection Plate	-	87.0	43.0	Pass

Structure Rating (max from all components) =	81.5%
---	--------------

Notes:

- 1) See additional documentation in "Appendix C - 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
-	-	-	-	-	-	-

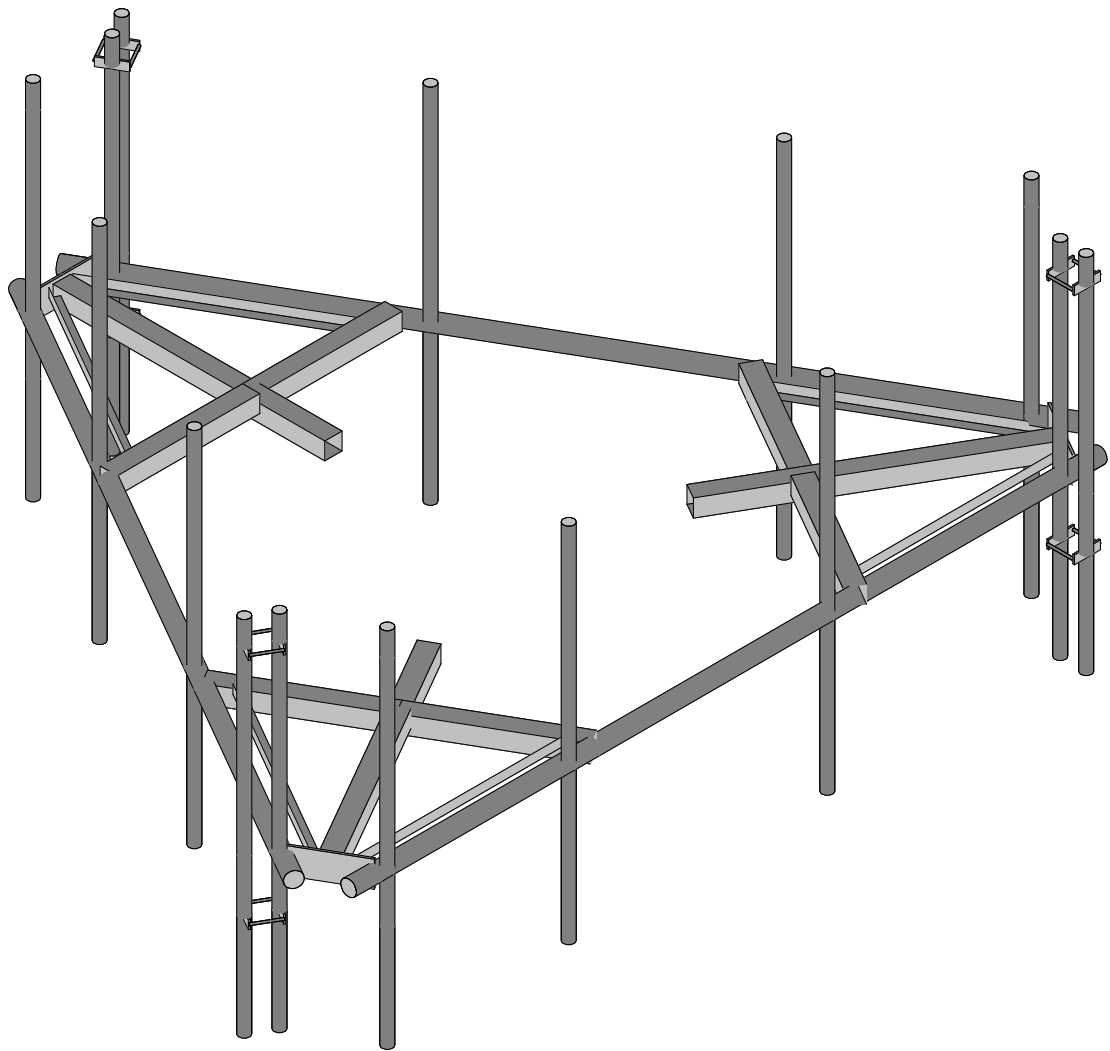
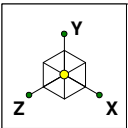
Notes:

- 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

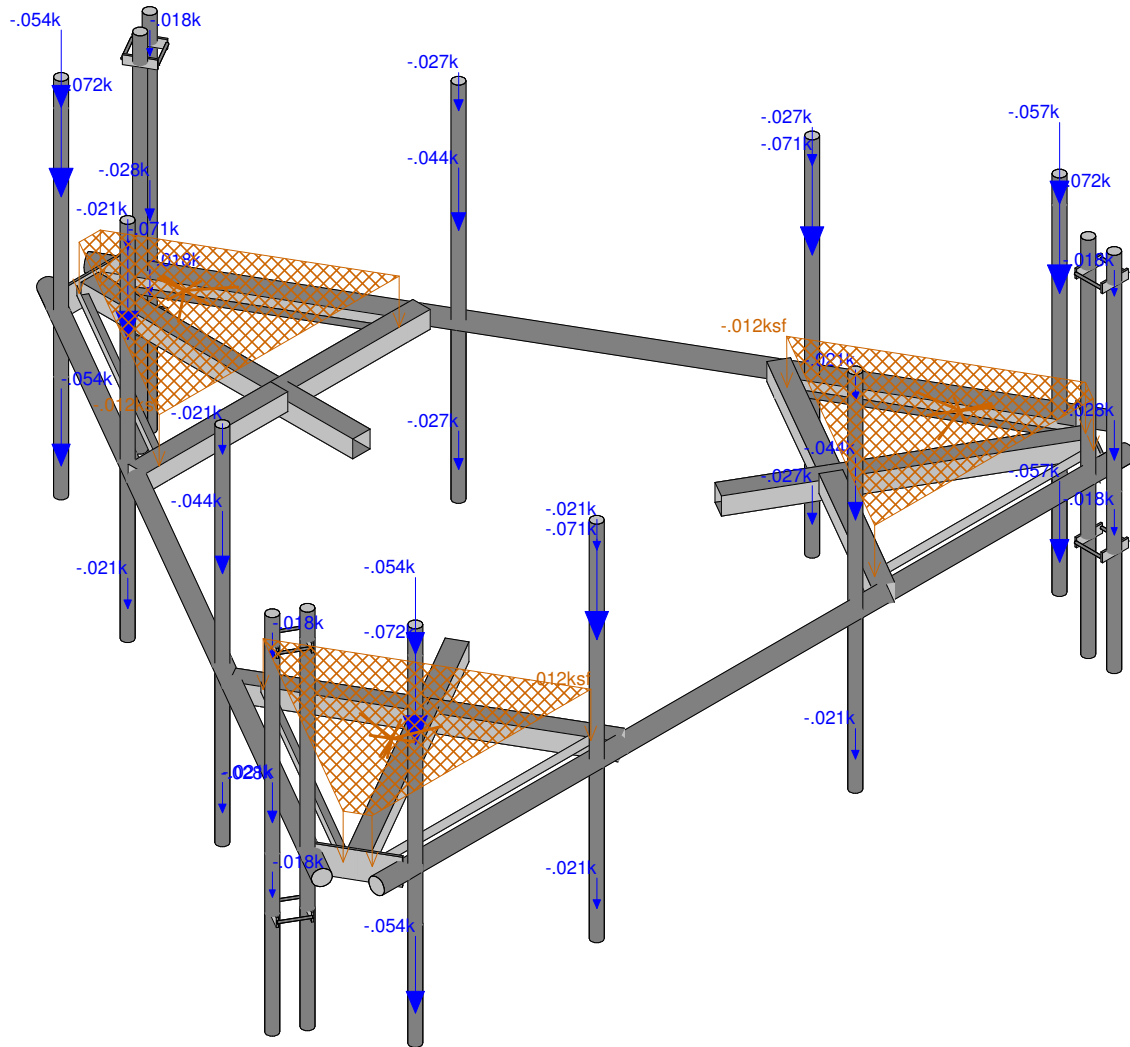
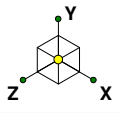
- 1) If the load differs from that described in Table 1 of this report or the provisions of this analysis are found to be invalid, another structural analysis should be performed.
- 2) The mount and its connection have sufficient capacity to carry the proposed loading configuration. No modifications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

APPENDIX A
WIRE FRAME AND RENDERED MODELS



Envelope Only Solution

Tower Engineering Profes...	CCI BU No. 806367	SK - 1
DC		Apr 23, 2020 at 1:34 PM
TEP No. 217454.407803		Mount Rev H.r3d

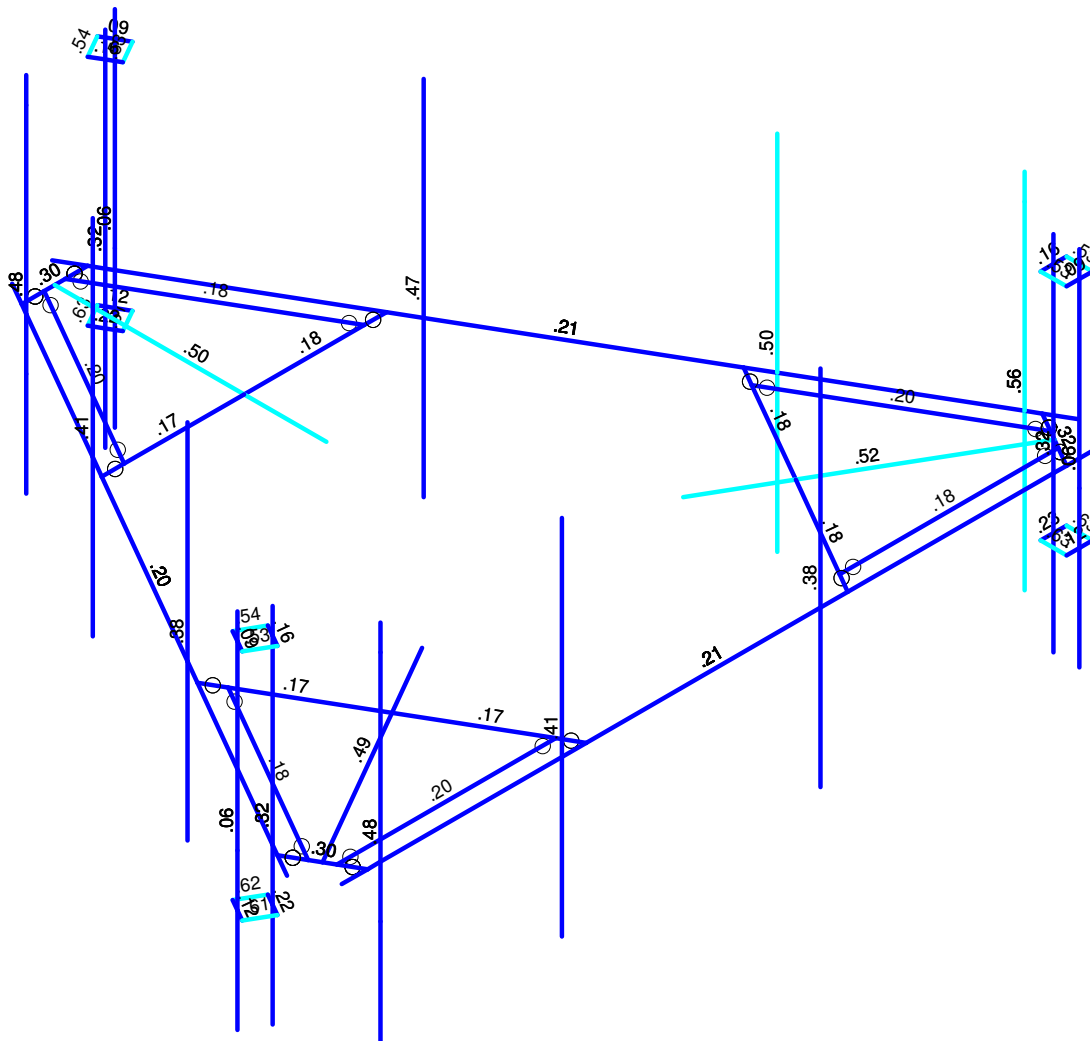
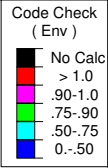
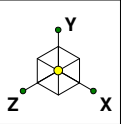


Loads: BLC 1, Dead
Envelope Only Solution

Tower Engineering Profes...
DC
TEP No. 217454.407803

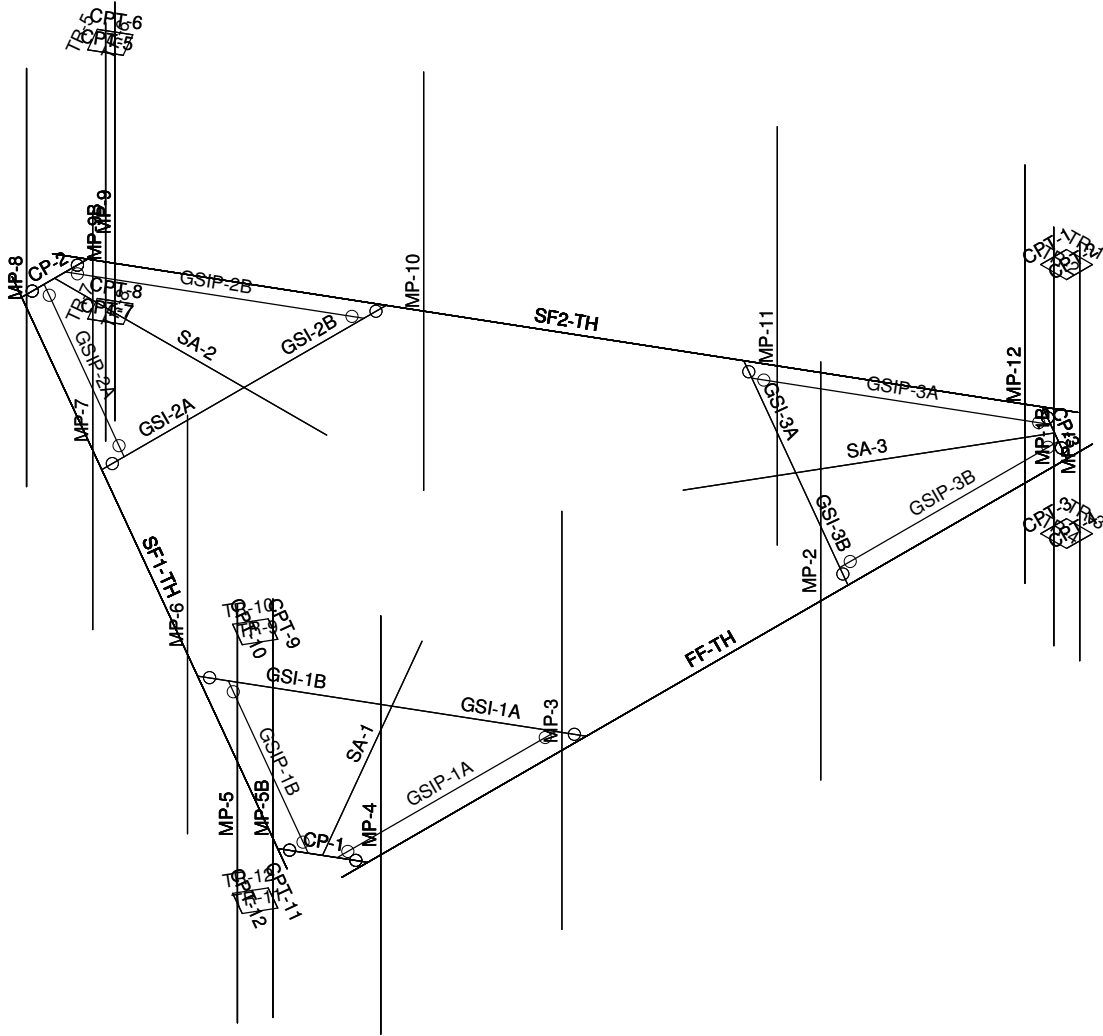
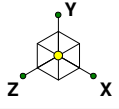
CCI BU No. 806367

SK - 2
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Mount Rev H.r3d



Member Code Checks Displayed (Enveloped)
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Tower Engineering Profes...	CCI BU No. 806367	SK - 3
DC		Apr 23, 2020 at 1:35 PM
TEP No. 217454.407803		Mount Rev H.r3d



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Tower Engineering Profes...

DC

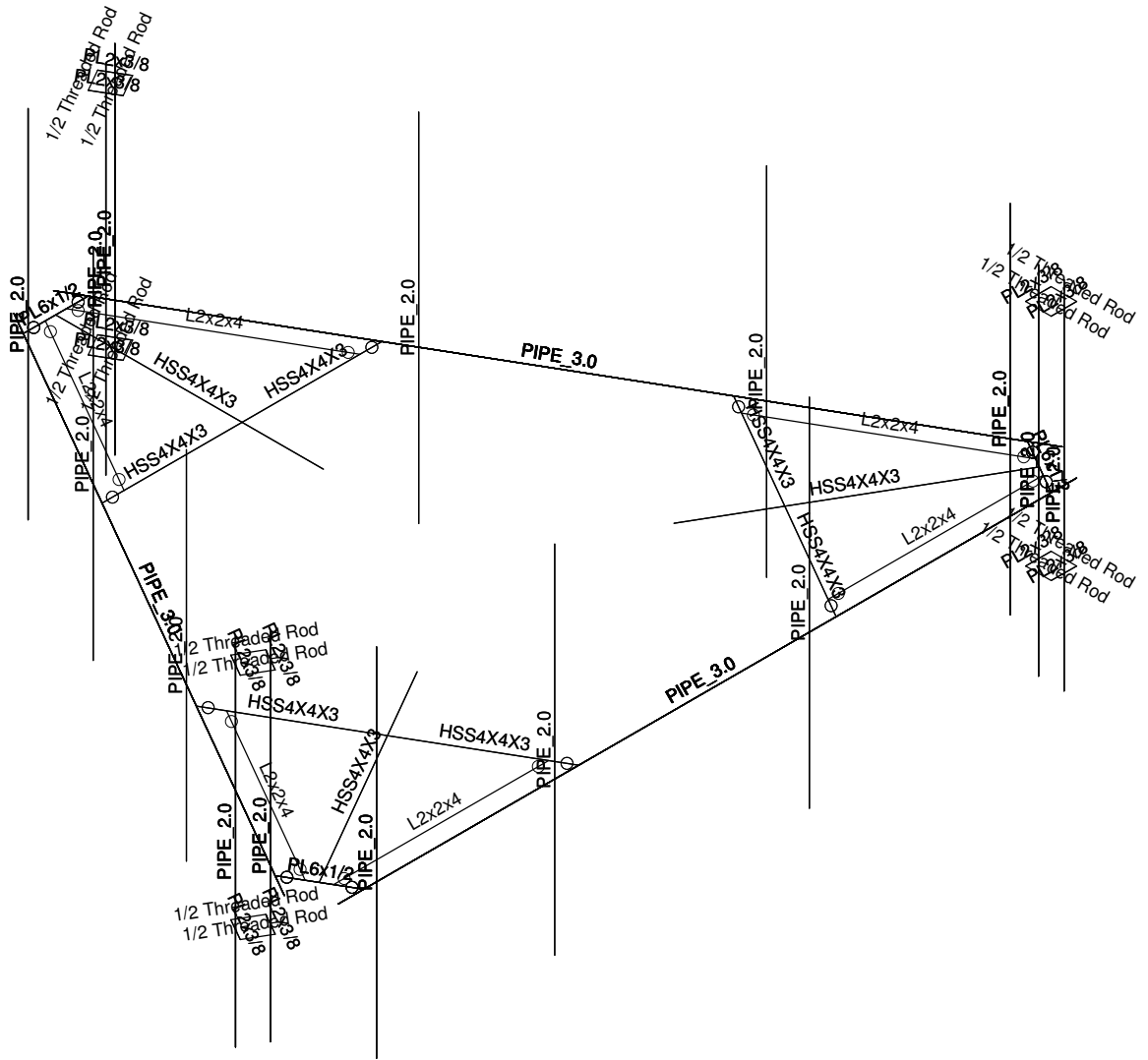
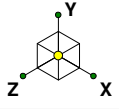
TEP No. 217454.407803

CCI BU No. 806367

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Apr 23, 2020 at 1:35 PM

Mount Rev H.r3d



Envelope Only Solution

Tower Engineering Profes...

DC

TEP No. 217454.407803

CCI BU No. 806367

SK - 5

Apr 23, 2020 at 1:35 PM

Mount Rev H.r3d

APPENDIX B
SOFTWARE INPUT CALCULATIONS



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

Wind Inputs:

Ult. Wind Velocity:	130.0	mph
Live Load Velocity:	30.0	mph
Ice Wind Velocity:	50.0	mph
Base Ice Thickness:	1.00	inches
Mount Centerline:	87.0	ft
Antenna Centerline:	89.0	ft
Exposure Category:	B	
Topo Category:	1	
Risk Category:	II	
Ground Elevation:	515	ft

Wind Calculations:

K_{zt} :	1.000	Section 2.6.6
K_d :	0.950	
$K_{z-Mount}$:	0.950	Section 2.6.5.2
$K_{z-Antenna}$:	0.956	Section 2.6.5.2
K_{iz} :	1.103	Section 2.6.10
Ice Thickness:	1.103	inches - Section 2.6.10

Without Ice - (psf)		With Ice - (psf)	
$(q_z G_h)_{Mount}$:	38.31	$(q_z G_h)_{Mount}$:	5.67
$(q_z G_h)_{Antenna}$:	38.56	$(q_z G_h)_{Antenna}$:	5.70



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	0.75	4.75	
POWERWAVE TECHNOLOGIES	LGP21401	14.40	9.20	2.60	14.10	0.00	2	Flat	MP-1	3.50		
CCI ANTENNAS	HPA-65R-BUU-H6	71.20	11.70	8.40	43.00	0.00	1	Flat	MP-2	0.50	6.50	
ERICSSON	RRUS 4415 B25	14.96	13.19	5.39	44.00	0.00	1	Flat	MP-2	2.50		
CCI ANTENNAS	HPA-65R-BUU-H6	71.20	11.70	8.40	43.00	0.00	1	Flat	MP-3	0.50	6.50	
KATHREIN	80010965	78.70	20.00	6.90	108.60	0.00	1	Flat	MP-4	0.50	6.50	
ERICSSON	RRUS 4449 B5/B12	17.90	13.19	9.44	71.00	0.00	1	Flat	MP-3	2.00		
ERICSSON	RRUS 8843 B2/B66A	14.90	13.20	10.90	72.00	90.00	1	Flat	MP-4	2.00		
POWERWAVE TECHNOLOGIES	7770.00	55.00	11.00	5.00	35.00	120.00	1	Flat	MP-5	0.75	4.75	
POWERWAVE TECHNOLOGIES	LGP21401	14.40	9.20	2.60	14.10	120.00	2	Flat	MP-5	3.50		
CCI ANTENNAS	HPA-65R-BUU-H6	71.20	11.70	8.40	43.00	120.00	1	Flat	MP-6	0.50	6.50	
ERICSSON	RRUS 4415 B25	14.96	13.19	5.39	44.00	120.00	1	Flat	MP-6	2.50		
CCI ANTENNAS	HPA-65R-BUU-H6	71.20	11.70	8.40	43.00	120.00	1	Flat	MP-7	0.50	6.50	
KATHREIN	80010965	78.70	20.00	6.90	108.60	120.00	1	Flat	MP-8	0.50	6.50	
ERICSSON	RRUS 4449 B5/B12	17.90	13.19	9.44	71.00	120.00	1	Flat	MP-7	2.00		
ERICSSON	RRUS 8843 B2/B66A	14.90	13.20	10.90	72.00	210.00	1	Flat	MP-8	2.00		
POWERWAVE TECHNOLOGIES	7770.00	55.00	11.00	5.00	35.00	240.00	1	Flat	MP-9	0.75	4.75	
POWERWAVE TECHNOLOGIES	LGP21401	14.40	9.20	2.60	14.10	240.00	2	Flat	MP-9	3.50		
CCI ANTENNAS	HPA-65R-BUU-H8	96.00	11.70	7.60	54.00	240.00	1	Flat	MP-10	0.50	6.50	
ERICSSON	RRUS 4415 B25	14.96	13.19	5.39	44.00	240.00	1	Flat	MP-10	2.50		
CCI ANTENNAS	HPA-65R-BUU-H8	96.00	11.70	7.60	54.00	240.00	1	Flat	MP-11	0.50	6.50	
KATHREIN	80010966	96.00	20.00	6.90	114.60	240.00	1	Flat	MP-12	0.50	6.50	
ERICSSON	RRUS 4449 B5/B12	17.90	13.19	9.44	71.00	240.00	1	Flat	MP-11	2.00		
ERICSSON	RRUS 8843 B2/B66A	14.90	13.20	10.90	72.00	330.00	1	Flat	MP-12	2.00		



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	15.30	Flat	30.00	13.00
CP-2	6.000	15.30	Flat	90.00	13.00
CP-3	6.000	15.30	Flat	-30.00	13.00
CPT-1	2.000	6.00	Flat	90.00	4.75
CPT-2	2.000	6.00	Flat	90.00	4.75
CPT-3	2.000	6.00	Flat	90.00	4.75
CPT-4	2.000	6.00	Flat	90.00	4.75
CPT-5	2.000	6.00	Flat	30.00	4.75
CPT-6	2.000	6.00	Flat	30.00	4.75
CPT-7	2.000	6.00	Flat	30.00	4.75
CPT-8	2.000	6.00	Flat	30.00	4.75
CPT-9	2.000	6.00	Flat	-30.00	4.75
CPT-10	2.000	6.00	Flat	-30.00	4.75
CPT-11	2.000	6.00	Flat	-30.00	4.75
CPT-12	2.000	6.00	Flat	-30.00	4.75
FF-TH	3.500	174.00	Round	90.00	11.00
GSI-1A	4.000	33.00	Flat	30.00	16.00
GSI-1B	4.000	33.00	Flat	30.00	16.00
GSI-2A	4.000	33.00	Flat	90.00	16.00
GSI-2B	4.000	33.00	Flat	90.00	16.00
GSI-3A	4.000	33.00	Flat	-30.00	16.00
GSI-3B	4.000	33.00	Flat	-30.00	16.00
GSIP-1A	2.000	50.70	Flat	90.00	8.00
GSIP-1B	2.000	50.70	Flat	-30.00	8.00
GSIP-2A	2.000	50.70	Flat	-30.00	8.00
GSIP-2B	2.000	50.70	Flat	30.00	8.00
GSIP-3A	2.000	50.70	Flat	30.00	8.00
GSIP-3B	2.000	50.70	Flat	90.00	8.00
MP-1	2.375	84.00	Round		7.46
MP-1B	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-5B	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
MP-9B	2.375	84.00	Round		7.46
MP-10	2.375	84.00	Round		7.46
MP-11	2.375	84.00	Round		7.46
MP-12	2.375	84.00	Round		7.46
SA-1	4.000	63.00	Flat	-60.00	16.00
SA-2	4.000	63.00	Flat	0.00	16.00
SA-3	4.000	63.00	Flat	60.00	16.00
SF1-TH	3.500	174.00	Round	-30.00	11.00
SF2-TH	3.500	174.00	Round	30.00	11.00
TR-1	0.425	6.00	Round	0.00	1.34
TR-2	0.425	6.00	Round	0.00	1.34
TR-3	0.425	6.00	Round	0.00	1.34
TR-4	0.425	6.00	Round	0.00	1.34
TR-5	0.425	6.00	Round	-60.00	1.34
TR-6	0.425	6.00	Round	-60.00	1.34
TR-7	0.425	6.00	Round	-60.00	1.34
TR-8	0.425	6.00	Round	-60.00	1.34
TR-9	0.425	6.00	Round	60.00	1.34
TR-10	0.425	6.00	Round	60.00	1.34
TR-11	0.425	6.00	Round	60.00	1.34
TR-12	0.425	6.00	Round	60.00	1.34

APPENDIX C
SOFTWARE ANALYSIS OUTPUT



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

Apr 23, 2020
 1:36 PM
 Checked By: SDJ

(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



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

Apr 23, 2020
 1:36 PM
 Checked By: SDJ

(Global) Model Settings, Continued

Seismic Code	ASCE 7-05
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
Occupancy Cat	I or II
Drift Cat	Other
Om Z	1
Om X	1
Cd Z	4
Cd X	4
Rho Z	1
Rho X	1

Hot Rolled Steel Properties

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

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horizontal	PIPE 3.0	None	None	A53-B-35	Typical	2.07	2.85	2.85	5.69
2	Support Arm	HSS4X4X3	None	None	A500 Gr.46	Typical	2.58	6.21	6.21	10
3	Internal	HSS4X4X3	None	None	A500 Gr.46	Typical	2.58	6.21	6.21	10
4	Grating Support	L2x2x4	None	None	A36 Gr.36	Typical	.944	.346	.346	.021
5	Corner Plate	PL 6x1/2	None	None	A36 Gr.36	Typical	.3	.063	.9	.237
6	Mount Pipe	PIPE 2.0	None	None	A53-B-35	Typical	1.02	.627	.627	1.25
7	Threaded Rods	1/2 Threa...	None	None	A36 Gr.36	Typical	.142	.002	.002	.003
8	MP Plate	PL2x3/8	None	None	A36 Gr.36	Typical	.75	.009	.25	.031

Cold Formed Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rul...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	CF1A	1.5CU1.25X035	Beam	CU	A570 Gr.33	Typical	.131	.022	.052	5.4e-5



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Material Takeoff

	Material	Size	Pieces	Length[ft]	Weight[K]
1	Hot Rolled Steel				
2	A36 Gr.36	1/2 Threaded Rod	12	6	.003
3	A36 Gr.36	L2x2x4	6	25.3	.081
4	A36 Gr.36	PL2x3/8	12	6	.015
5	A36 Gr.36	PL6x1/2	3	3.8	.039
6	A500 Gr.46	HSS4X4X3	9	32.2	.283
7	A53-B-35	PIPE 2.0	15	105	.364
8	A53-B-35	PIPE 3.0	3	43.5	.306
9	Total HR Steel		60	221.9	1.093

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	N2	Reaction	Reaction	Reaction	Reaction	Reaction
2	N4	Reaction	Reaction	Reaction	Reaction	Reaction
3	N6	Reaction	Reaction	Reaction	Reaction	Reaction

Member Primary Data

Label	I Joint	J Joint	K Joint	Rotate[de...]	Section/Shape	Type	Design List	Material	Design Rules
1	CP-1	N41	N44		Corner Plate	None	None	A36 Gr.36	Typical
2	CP-2	N45	N42		Corner Plate	None	None	A36 Gr.36	Typical
3	CP-3	N43	N40		Corner Plate	None	None	A36 Gr.36	Typical
4	CPT-1	N122	N118		MP Plate	None	None	A36 Gr.36	Typical
5	CPT-2	N123	N119		MP Plate	None	None	A36 Gr.36	Typical
6	CPT-3	N124	N120		MP Plate	None	None	A36 Gr.36	Typical
7	CPT-4	N125	N121		MP Plate	None	None	A36 Gr.36	Typical
8	CPT-5	N132	N128		MP Plate	None	None	A36 Gr.36	Typical
9	CPT-6	N133	N129		MP Plate	None	None	A36 Gr.36	Typical
10	CPT-7	N134	N130		MP Plate	None	None	A36 Gr.36	Typical
11	CPT-8	N135	N131		MP Plate	None	None	A36 Gr.36	Typical
12	CPT-9	N138	N134A		MP Plate	None	None	A36 Gr.36	Typical
13	CPT-10	N139	N135A		MP Plate	None	None	A36 Gr.36	Typical
14	CPT-11	N140	N137		MP Plate	None	None	A36 Gr.36	Typical
15	CPT-12	N141	N137		MP Plate	None	None	A36 Gr.36	Typical
16	FF-TH	FF-1	FF-2		Face Horizontal	None	None	A53-B-35	Typical
17	GSI-1A	GSI1-A	GSI1-B		Internal	None	None	A500 Gr.46	Typical
18	GSI-1B	GSI1-B	GSI1-C		Internal	None	None	A500 Gr.46	Typical
19	GSI-2A	GSI2-A	GSI2-B		Internal	None	None	A500 Gr.46	Typical
20	GSI-2B	GSI2-B	GSI2-C		Internal	None	None	A500 Gr.46	Typical
21	GSI-3A	GSI3-A	GSI3-B		Internal	None	None	A500 Gr.46	Typical
22	GSI-3B	GSI3-B	GSI3-C		Internal	None	None	A500 Gr.46	Typical
23	GSIP-1A	P1	P2		Grating Support	None	None	A36 Gr.36	Typical
24	GSIP-1B	P3	P4		Grating Support	None	None	A36 Gr.36	Typical
25	GSIP-2A	P5	P6		Grating Support	None	None	A36 Gr.36	Typical
26	GSIP-2B	P7	P8		Grating Support	None	None	A36 Gr.36	Typical
27	GSIP-3A	P9	P10		Grating Support	None	None	A36 Gr.36	Typical
28	GSIP-3B	P11	P12		Grating Support	None	None	A36 Gr.36	Typical
29	MP-1	N51	N53		Mount Pipe	None	None	A53-B-35	Typical
30	MP-1B	N43A	N46		Mount Pipe	None	None	A53-B-35	Typical
31	MP-2	N110	N111		Mount Pipe	None	None	A53-B-35	Typical
32	MP-3	N44A	N47		Mount Pipe	None	None	A53-B-35	Typical
33	MP-4	N45A	N48		Mount Pipe	None	None	A53-B-35	Typical
34	MP-5	N74	N76		Mount Pipe	None	None	A53-B-35	Typical
35	MP-5B	N66	N69		Mount Pipe	None	None	A53-B-35	Typical
36	MP-6	N116	N117		Mount Pipe	None	None	A53-B-35	Typical



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Member Primary Data (Continued)

Label	I Joint	J Joint	K Joint	Rotate[de...]	Section/Shape	Type	Design List	Material	Design Rules
37	MP-7	N67	N70		Mount Pipe	None	None	A53-B-35	Typical
38	MP-8	N68	N71		Mount Pipe	None	None	A53-B-35	Typical
39	MP-9	N97	N99		Mount Pipe	None	None	A53-B-35	Typical
40	MP-9B	N89	N92		Mount Pipe	None	None	A53-B-35	Typical
41	MP-10	N113	N114		Mount Pipe	None	None	A53-B-35	Typical
42	MP-11	N90	N93		Mount Pipe	None	None	A53-B-35	Typical
43	MP-12	N91	N94		Mount Pipe	None	None	A53-B-35	Typical
44	SA-1	N4	N3		Support Arm	None	None	A500 Gr.46	Typical
45	SA-2	N2	N1		Support Arm	None	None	A500 Gr.46	Typical
46	SA-3	N6	N5		Support Arm	None	None	A500 Gr.46	Typical
47	SF1-TH	SF1-1	SF1-3		Face Horizontal	None	None	A53-B-35	Typical
48	SF2-TH	SF2-1	SF2-3		Face Horizontal	None	None	A53-B-35	Typical
49	TR-1	N118	N119		Threaded Rods	None	None	A36 Gr.36	Typical
50	TR-2	N122	N123		Threaded Rods	None	None	A36 Gr.36	Typical
51	TR-3	N120	N121		Threaded Rods	None	None	A36 Gr.36	Typical
52	TR-4	N124	N125		Threaded Rods	None	None	A36 Gr.36	Typical
53	TR-5	N128	N129		Threaded Rods	None	None	A36 Gr.36	Typical
54	TR-6	N132	N133		Threaded Rods	None	None	A36 Gr.36	Typical
55	TR-7	N130	N131		Threaded Rods	None	None	A36 Gr.36	Typical
56	TR-8	N134	N135		Threaded Rods	None	None	A36 Gr.36	Typical
57	TR-9	N134A	N135A		Threaded Rods	None	None	A36 Gr.36	Typical
58	TR-10	N138	N139		Threaded Rods	None	None	A36 Gr.36	Typical
59	TR-11	N136	N137		Threaded Rods	None	None	A36 Gr.36	Typical
60	TR-12	N140	N141		Threaded Rods	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	Opti...	Analysis ...	Inactive	Seismic...
1	CP-1	BenPIN	BenPIN			Yes	** NA **				None
2	CP-2	BenPIN	BenPIN			Yes	** NA **				None
3	CP-3	BenPIN	BenPIN			Yes	** NA **				None
4	CPT-1					Yes	** NA **				None
5	CPT-2					Yes	** NA **				None
6	CPT-3					Yes	** NA **				None
7	CPT-4					Yes	** NA **				None
8	CPT-5					Yes	** NA **				None
9	CPT-6					Yes	** NA **				None
10	CPT-7					Yes	** NA **				None
11	CPT-8					Yes	** NA **				None
12	CPT-9					Yes	** NA **				None
13	CPT-10					Yes	** NA **				None
14	CPT-11					Yes	** NA **				None
15	CPT-12					Yes	** NA **				None
16	FF-TH					Yes	** NA **				None
17	GSI-1A	BenPIN				Yes	** NA **				None
18	GSI-1B		BenPIN			Yes	** NA **				None
19	GSI-2A	BenPIN				Yes	** NA **				None
20	GSI-2B		BenPIN			Yes	** NA **				None
21	GSI-3A	BenPIN				Yes	** NA **				None
22	GSI-3B		BenPIN			Yes	** NA **				None
23	GSIP-1A	BenPIN	BenPIN			Yes	** NA **				None
24	GSIP-1B	BenPIN	BenPIN			Yes	** NA **				None
25	GSIP-2A	BenPIN	BenPIN			Yes	** NA **				None
26	GSIP-2B	BenPIN	BenPIN			Yes	** NA **				None
27	GSIP-3A	BenPIN	BenPIN			Yes	** NA **				None
28	GSIP-3B	BenPIN	BenPIN			Yes	** NA **				None



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Member Advanced Data (Continued)

Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Ratio	Opti...	Analysis ...	Inactive	Seismic...
29	MP-1					Yes	** NA **				None
30	MP-1B					Yes	** NA **				None
31	MP-2					Yes	** NA **				None
32	MP-3					Yes	** NA **				None
33	MP-4					Yes	** NA **				None
34	MP-5					Yes	** NA **				None
35	MP-5B					Yes	** NA **				None
36	MP-6					Yes	** NA **				None
37	MP-7					Yes	** NA **				None
38	MP-8					Yes	** NA **				None
39	MP-9					Yes	** NA **				None
40	MP-9B					Yes	** NA **				None
41	MP-10					Yes	** NA **				None
42	MP-11					Yes	** NA **				None
43	MP-12					Yes	** NA **				None
44	SA-1					Yes	** NA **				None
45	SA-2					Yes	** NA **				None
46	SA-3					Yes	** NA **				None
47	SF1-TH					Yes	** NA **				None
48	SF2-TH					Yes	** NA **				None
49	TR-1					Yes	** NA **				None
50	TR-2					Yes	** NA **				None
51	TR-3					Yes	** NA **				None
52	TR-4					Yes	** NA **				None
53	TR-5					Yes	** NA **				None
54	TR-6					Yes	** NA **				None
55	TR-7					Yes	** NA **				None
56	TR-8					Yes	** NA **				None
57	TR-9					Yes	** NA **				None
58	TR-10					Yes	** NA **				None
59	TR-11					Yes	** NA **				None
60	TR-12					Yes	** NA **				None

Hot Rolled Steel Design Parameters

Label	Shape	Length[ft]	Lby[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[...]	L-torg...	Kyy	Kzz	Cb	Function
1	CP-1	Corner Plate	1.275	.637	.637			1	1		Lateral
2	CP-2	Corner Plate	1.275	.637	.637			1	1		Lateral
3	CP-3	Corner Plate	1.275	.637	.637			1	1		Lateral
4	CPT-1	MP Plate	.5					2.1	2.1		Lateral
5	CPT-2	MP Plate	.5					2.1	2.1		Lateral
6	CPT-3	MP Plate	.5					2.1	2.1		Lateral
7	CPT-4	MP Plate	.5					2.1	2.1		Lateral
8	CPT-5	MP Plate	.5					2.1	2.1		Lateral
9	CPT-6	MP Plate	.5					2.1	2.1		Lateral
10	CPT-7	MP Plate	.5					2.1	2.1		Lateral
11	CPT-8	MP Plate	.5					2.1	2.1		Lateral
12	CPT-9	MP Plate	.5					2.1	2.1		Lateral
13	CPT-10	MP Plate	.5					2.1	2.1		Lateral
14	CPT-11	MP Plate	.5					2.1	2.1		Lateral
15	CPT-12	MP Plate	.5					2.1	2.1		Lateral
16	FF-TH	Face Horiz...	14.5	5.051				2.1	2.1		Lateral
17	GSI-1A	Internal	2.75					.8	.8		Lateral
18	GSI-1B	Internal	2.75					.8	.8		Lateral
19	GSI-2A	Internal	2.75					.8	.8		Lateral
20	GSI-2B	Internal	2.75					.8	.8		Lateral



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Hot Rolled Steel Design Parameters (Continued)

Label	Shape	Length[ft]	Lby[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[...]	L-torg...	Kyy	Kzz	Cb	Function
21	GSI-3A	Internal	2.75					.8	.8		Lateral
22	GSI-3B	Internal	2.75					.8	.8		Lateral
23	GSIP-1A	Grating Su...	4.225					1	1		Lateral
24	GSIP-1B	Grating Su...	4.225					1	1		Lateral
25	GSIP-2A	Grating Su...	4.225					1	1		Lateral
26	GSIP-2B	Grating Su...	4.225					1	1		Lateral
27	GSIP-3A	Grating Su...	4.225					1	1		Lateral
28	GSIP-3B	Grating Su...	4.225					1	1		Lateral
29	MP-1	Mount Pipe	7		Segment	Segment		2.1	2.1		Lateral
30	MP-1B	Mount Pipe	7		Segment	Segment		2.1	2.1		Lateral
31	MP-2	Mount Pipe	7		Segment	Segment		2.1	2.1		Lateral
32	MP-3	Mount Pipe	7		Segment	Segment		2.1	2.1		Lateral
33	MP-4	Mount Pipe	7		Segment	Segment		2.1	2.1		Lateral
34	MP-5	Mount Pipe	7		Segment	Segment		2.1	2.1		Lateral
35	MP-5B	Mount Pipe	7		Segment	Segment		2.1	2.1		Lateral
36	MP-6	Mount Pipe	7		Segment	Segment		2.1	2.1		Lateral
37	MP-7	Mount Pipe	7		Segment	Segment		2.1	2.1		Lateral
38	MP-8	Mount Pipe	7		Segment	Segment		2.1	2.1		Lateral
39	MP-9	Mount Pipe	7		Segment	Segment		2.1	2.1		Lateral
40	MP-9B	Mount Pipe	7		Segment	Segment		2.1	2.1		Lateral
41	MP-10	Mount Pipe	7		Segment	Segment		2.1	2.1		Lateral
42	MP-11	Mount Pipe	7		Segment	Segment		2.1	2.1		Lateral
43	MP-12	Mount Pipe	7		Segment	Segment		2.1	2.1		Lateral
44	SA-1	Support Arm	5.25	3.659				2.1	2.1		Lateral
45	SA-2	Support Arm	5.25	3.659				2.1	2.1		Lateral
46	SA-3	Support Arm	5.25	3.659				2.1	2.1		Lateral
47	SF1-TH	Face Horiz...	14.5	5.051				2.1	2.1		Lateral
48	SF2-TH	Face Horiz...	14.5	5.051				2.1	2.1		Lateral
49	TR-1	Threaded ...	.5					1	1		Lateral
50	TR-2	Threaded ...	.5					1	1		Lateral
51	TR-3	Threaded ...	.5					1	1		Lateral
52	TR-4	Threaded ...	.5					1	1		Lateral
53	TR-5	Threaded ...	.5					1	1		Lateral
54	TR-6	Threaded ...	.5					1	1		Lateral
55	TR-7	Threaded ...	.5					1	1		Lateral
56	TR-8	Threaded ...	.5					1	1		Lateral
57	TR-9	Threaded ...	.5					1	1		Lateral
58	TR-10	Threaded ...	.5					1	1		Lateral
59	TR-11	Threaded ...	.5					1	1		Lateral
60	TR-12	Threaded ...	.5					1	1		Lateral

Cold Formed Steel Design Parameters

Label	Shape	Length...	Lby[ft]	Lbzz[ft]	Lcomp to...	Lcomp b...	Kyy	Kzz	Cm-yy	Cm-zz	Cb	R	y sway	z sway
No Data to Print ...														

Basic Load Cases

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
1	Dead	None				36		
2	0 Wind - No Ice	None				36	60	3
3	30 Wind - No Ice	None				72	120	
4	45 Wind - No Ice	None				72	120	
5	60 Wind - No Ice	None				72	120	
6	90 Wind - No Ice	None				36	60	
7	120 Wind - No Ice	None				72	120	



Basic Load Cases (Continued)

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...)	Surface(P...
8 135 Wind - No Ice	None					72	120	
9 150 Wind - No Ice	None					72	120	
10 180 Wind - No Ice	None					36	60	
11 210 Wind - No Ice	None					72	120	
12 225 Wind - No Ice	None					72	120	
13 240 Wind - No Ice	None					72	120	
14 270 Wind - No Ice	None					36	60	
15 300 Wind - No Ice	None					72	120	
16 315 Wind - No Ice	None					72	120	
17 330 Wind - No Ice	None					72	120	
18 Ice Weight	None					36	60	3
19 0 Wind - Ice	None					36	60	
20 30 Wind - Ice	None					72	120	
21 45 Wind - Ice	None					72	120	
22 60 Wind - Ice	None					72	120	
23 90 Wind - Ice	None					36	60	
24 120 Wind - Ice	None					72	120	
25 135 Wind - Ice	None					72	120	
26 150 Wind - Ice	None					72	120	
27 180 Wind - Ice	None					36	60	
28 210 Wind - Ice	None					72	120	
29 225 Wind - Ice	None					72	120	
30 240 Wind - Ice	None					72	120	
31 270 Wind - Ice	None					36	60	
32 300 Wind - Ice	None					72	120	
33 315 Wind - Ice	None					72	120	
34 330 Wind - Ice	None					72	120	
35 Lm	None				1			
36 Lv	None				1			
37 BLC 1 Transient Area...	None						54	
38 BLC 18 Transient Are...	None						54	

Load Combinations

Description	Solve	PDelta	S...	BLC	Fa...	BLC	Factor	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...
1 1.4D	Yes	Y		1	1.4													
2 0.9D+1.0 0-W...	Yes	Y		1	.9	2	1											
3 0.9D+1.0 30-...	Yes	Y		1	.9	3	1											
4 0.9D+1.0 45-...	Yes	Y		1	.9	4	1											
5 0.9D+1.0 60-...	Yes	Y		1	.9	5	1											
6 0.9D+1.0 90-...	Yes	Y		1	.9	6	1											
7 0.9D+1.0 120-...	Yes	Y		1	.9	7	1											
8 0.9D+1.0 135-...	Yes	Y		1	.9	8	1											
9 0.9D+1.0 150-...	Yes	Y		1	.9	9	1											
10 0.9D+1.0 180-...	Yes	Y		1	.9	10	1											
11 0.9D+1.0 210-...	Yes	Y		1	.9	11	1											
12 0.9D+1.0 225-...	Yes	Y		1	.9	12	1											
13 0.9D+1.0 240-...	Yes	Y		1	.9	13	1											
14 0.9D+1.0 270-...	Yes	Y		1	.9	14	1											
15 0.9D+1.0 300-...	Yes	Y		1	.9	15	1											
16 0.9D+1.0 315-...	Yes	Y		1	.9	16	1											
17 0.9D+1.0 330-...	Yes	Y		1	.9	17	1											
18 1.2D+1.0 0-W...	Yes	Y		1	1.2	2	1											
19 1.2D+1.0 30-...	Yes	Y		1	1.2	3	1											
20 1.2D+1.0 45-...	Yes	Y		1	1.2	4	1											
21 1.2D+1.0 60-...	Yes	Y		1	1.2	5	1											



Load Combinations (Continued)

Description	Solve	PDelta	S...	BLC	Fa...	BLC	Factor	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...
22 1.2D+1.0 90-...	Yes	Y		1	1.2	6	1											
23 1.2D+1.0 120-...	Yes	Y		1	1.2	7	1											
24 1.2D+1.0 135-...	Yes	Y		1	1.2	8	1											
25 1.2D+1.0 150-...	Yes	Y		1	1.2	9	1											
26 1.2D+1.0 180-...	Yes	Y		1	1.2	10	1											
27 1.2D+1.0 210-...	Yes	Y		1	1.2	11	1											
28 1.2D+1.0 225-...	Yes	Y		1	1.2	12	1											
29 1.2D+1.0 240-...	Yes	Y		1	1.2	13	1											
30 1.2D+1.0 270-...	Yes	Y		1	1.2	14	1											
31 1.2D+1.0 300-...	Yes	Y		1	1.2	15	1											
32 1.2D+1.0 315-...	Yes	Y		1	1.2	16	1											
33 1.2D+1.0 330-...	Yes	Y		1	1.2	17	1											
34 1.2D+1.0Di+1...	Yes	Y		1	1.2	18	1	19	1									
35 1.2D+1.0Di+1...	Yes	Y		1	1.2	18	1	20	1									
36 1.2D+1.0Di+1...	Yes	Y		1	1.2	18	1	21	1									
37 1.2D+1.0Di+1...	Yes	Y		1	1.2	18	1	22	1									
38 1.2D+1.0Di+1...	Yes	Y		1	1.2	18	1	23	1									
39 1.2D+1.0Di+1...	Yes	Y		1	1.2	18	1	24	1									
40 1.2D+1.0Di+1...	Yes	Y		1	1.2	18	1	25	1									
41 1.2D+1.0Di+1...	Yes	Y		1	1.2	18	1	26	1									
42 1.2D+1.0Di+1...	Yes	Y		1	1.2	18	1	27	1									
43 1.2D+1.0Di+1...	Yes	Y		1	1.2	18	1	28	1									
44 1.2D+1.0Di+1...	Yes	Y		1	1.2	18	1	29	1									
45 1.2D+1.0Di+1...	Yes	Y		1	1.2	18	1	30	1									
46 1.2D+1.0Di+1...	Yes	Y		1	1.2	18	1	31	1									
47 1.2D+1.0Di+1...	Yes	Y		1	1.2	18	1	32	1									
48 1.2D+1.0Di+1...	Yes	Y		1	1.2	18	1	33	1									
49 1.2D+1.0Di+1...	Yes	Y		1	1.2	18	1	34	1									
50 1.2D+1.5Lv	Yes	Y		36	1.5	1	1.2											
51 1.2D+1.5Lm+...	Yes	Y		1	1.2	2	.053	35	1.5									
52 1.2D+1.5Lm+...	Yes	Y		1	1.2	3	.053	35	1.5									
53 1.2D+1.5Lm+...	Yes	Y		1	1.2	4	.053	35	1.5									
54 1.2D+1.5Lm+...	Yes	Y		1	1.2	5	.053	35	1.5									
55 1.2D+1.5Lm+...	Yes	Y		1	1.2	6	.053	35	1.5									
56 1.2D+1.5Lm+...	Yes	Y		1	1.2	7	.053	35	1.5									
57 1.2D+1.5Lm+...	Yes	Y		1	1.2	8	.053	35	1.5									
58 1.2D+1.5Lm+...	Yes	Y		1	1.2	9	.053	35	1.5									
59 1.2D+1.5Lm+...	Yes	Y		1	1.2	10	.053	35	1.5									
60 1.2D+1.5Lm+...	Yes	Y		1	1.2	11	.053	35	1.5									
61 1.2D+1.5Lm+...	Yes	Y		1	1.2	12	.053	35	1.5									
62 1.2D+1.5Lm+...	Yes	Y		1	1.2	13	.053	35	1.5									
63 1.2D+1.5Lm+...	Yes	Y		1	1.2	14	.053	35	1.5									
64 1.2D+1.5Lm+...	Yes	Y		1	1.2	15	.053	35	1.5									
65 1.2D+1.5Lm+...	Yes	Y		1	1.2	16	.053	35	1.5									
66 1.2D+1.5Lm+...	Yes	Y		1	1.2	17	.053	35	1.5									

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 X1	L	Y	-5

Joint Loads and Enforced Displacements (BLC 36 : Lv)

Joint Label	L,D,M	Direction	Magnitude[(k.k-ft), (in.rad), (k's°2/ft...
1 FF-1	L	Y	-.25



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Member Point Loads (BLC 1 : Dead)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Y	-.018	.75
2	MP-1	Y	-.028	3.5
3	MP-2	Y	-.021	.5
4	MP-2	Y	-.044	2.5
5	MP-3	Y	-.021	.5
6	MP-4	Y	-.054	.5
7	MP-3	Y	-.071	2
8	MP-4	Y	-.072	2
9	MP-5	Y	-.018	.75
10	MP-5	Y	-.028	3.5
11	MP-6	Y	-.021	.5
12	MP-6	Y	-.044	2.5
13	MP-7	Y	-.021	.5
14	MP-8	Y	-.054	.5
15	MP-7	Y	-.071	2
16	MP-8	Y	-.072	2
17	MP-9	Y	-.018	.75
18	MP-9	Y	-.028	3.5
19	MP-10	Y	-.027	.5
20	MP-10	Y	-.044	2.5
21	MP-11	Y	-.027	.5
22	MP-12	Y	-.057	.5
23	MP-11	Y	-.071	2
24	MP-12	Y	-.072	2
25	MP-1	Y	-.018	4.75
26	MP-2	Y	-.021	6.5
27	MP-3	Y	-.021	6.5
28	MP-4	Y	-.054	6.5
29	MP-5	Y	-.018	4.75
30	MP-6	Y	-.021	6.5
31	MP-7	Y	-.021	6.5
32	MP-8	Y	-.054	6.5
33	MP-9	Y	-.018	4.75
34	MP-10	Y	-.027	6.5
35	MP-11	Y	-.027	6.5
36	MP-12	Y	-.057	6.5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.096	.75
2	MP-1	X	-.077	3.5
3	MP-2	X	-.16	.5
4	MP-2	X	-.057	2.5
5	MP-3	X	-.16	.5
6	MP-4	X	-.212	.5
7	MP-3	X	-.068	2
8	MP-4	X	-.047	2
9	MP-5	X	-.062	.75
10	MP-5	X	-.037	3.5
11	MP-6	X	-.101	.5
12	MP-6	X	-.032	2.5
13	MP-7	X	-.101	.5
14	MP-8	X	-.108	.5
15	MP-7	X	-.054	2
16	MP-8	X	-.054	2



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
17	MP-9	X	-.062	.75
18	MP-9	X	-.037	3.5
19	MP-10	X	-.135	.5
20	MP-10	X	-.032	2.5
21	MP-11	X	-.135	.5
22	MP-12	X	-.129	.5
23	MP-11	X	-.054	2
24	MP-12	X	-.054	2
25	MP-1	X	-.096	4.75
26	MP-2	X	-.16	6.5
27	MP-3	X	-.16	6.5
28	MP-4	X	-.212	6.5
29	MP-5	X	-.062	4.75
30	MP-6	X	-.101	6.5
31	MP-7	X	-.101	6.5
32	MP-8	X	-.108	6.5
33	MP-9	X	-.062	4.75
34	MP-10	X	-.135	6.5
35	MP-11	X	-.135	6.5
36	MP-12	X	-.129	6.5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.073	.75
2	MP-1	X	-.055	3.5
3	MP-2	X	-.121	.5
4	MP-2	X	-.042	2.5
5	MP-3	X	-.121	.5
6	MP-4	X	-.154	.5
7	MP-3	X	-.055	2
8	MP-4	X	-.043	2
9	MP-5	X	-.044	.75
10	MP-5	X	-.021	3.5
11	MP-6	X	-.07	.5
12	MP-6	X	-.02	2.5
13	MP-7	X	-.07	.5
14	MP-8	X	-.063	.5
15	MP-7	X	-.042	2
16	MP-8	X	-.049	2
17	MP-9	X	-.073	.75
18	MP-9	X	-.055	3.5
19	MP-10	X	-.162	.5
20	MP-10	X	-.042	2.5
21	MP-11	X	-.162	.5
22	MP-12	X	-.183	.5
23	MP-11	X	-.055	2
24	MP-12	X	-.043	2
25	MP-1	X	-.073	4.75
26	MP-2	X	-.121	6.5
27	MP-3	X	-.121	6.5
28	MP-4	X	-.154	6.5
29	MP-5	X	-.044	4.75
30	MP-6	X	-.07	6.5
31	MP-7	X	-.07	6.5
32	MP-8	X	-.063	6.5
33	MP-9	X	-.073	4.75



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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
34	MP-10	X	-162 6.5
35	MP-11	X	-162 6.5
36	MP-12	X	-183 6.5
37	MP-1	Z	-.042 .75
38	MP-1	Z	-.032 3.5
39	MP-2	Z	-.07 .5
40	MP-2	Z	-.024 2.5
41	MP-3	Z	-.07 .5
42	MP-4	Z	-.089 .5
43	MP-3	Z	-.032 2
44	MP-4	Z	-.025 2
45	MP-5	Z	-.025 .75
46	MP-5	Z	-.012 3.5
47	MP-6	Z	-.04 .5
48	MP-6	Z	-.012 2.5
49	MP-7	Z	-.04 .5
50	MP-8	Z	-.037 .5
51	MP-7	Z	-.024 2
52	MP-8	Z	-.028 2
53	MP-9	Z	-.042 .75
54	MP-9	Z	-.032 3.5
55	MP-10	Z	-.093 .5
56	MP-10	Z	-.024 2.5
57	MP-11	Z	-.093 .5
58	MP-12	Z	-.106 .5
59	MP-11	Z	-.032 2
60	MP-12	Z	-.025 2
61	MP-1	Z	-.042 4.75
62	MP-2	Z	-.07 6.5
63	MP-3	Z	-.07 6.5
64	MP-4	Z	-.089 6.5
65	MP-5	Z	-.025 4.75
66	MP-6	Z	-.04 6.5
67	MP-7	Z	-.04 6.5
68	MP-8	Z	-.037 6.5
69	MP-9	Z	-.042 4.75
70	MP-10	Z	-.093 6.5
71	MP-11	Z	-.093 6.5
72	MP-12	Z	-.106 6.5

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.052 .75
2	MP-1	X	-.036 3.5
3	MP-2	X	-.085 .5
4	MP-2	X	-.029 2.5
5	MP-3	X	-.085 .5
6	MP-4	X	-.101 .5
7	MP-3	X	-.041 2
8	MP-4	X	-.037 2
9	MP-5	X	-.038 .75
10	MP-5	X	-.02 3.5
11	MP-6	X	-.061 .5
12	MP-6	X	-.018 2.5
13	MP-7	X	-.061 .5
14	MP-8	X	-.058 .5



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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
15	MP-7	X	-.035 2
16	MP-8	X	-.04 2
17	MP-9	X	-.065 .75
18	MP-9	X	-.052 3.5
19	MP-10	X	-.146 .5
20	MP-10	X	-.039 2.5
21	MP-11	X	-.146 .5
22	MP-12	X	-.171 .5
23	MP-11	X	-.047 2
24	MP-12	X	-.034 2
25	MP-1	X	-.052 4.75
26	MP-2	X	-.085 6.5
27	MP-3	X	-.085 6.5
28	MP-4	X	-.101 6.5
29	MP-5	X	-.038 4.75
30	MP-6	X	-.061 6.5
31	MP-7	X	-.061 6.5
32	MP-8	X	-.058 6.5
33	MP-9	X	-.065 4.75
34	MP-10	X	-.146 6.5
35	MP-11	X	-.146 6.5
36	MP-12	X	-.171 6.5
37	MP-1	Z	-.052 .75
38	MP-1	Z	-.036 3.5
39	MP-2	Z	-.085 .5
40	MP-2	Z	-.029 2.5
41	MP-3	Z	-.085 .5
42	MP-4	Z	-.101 .5
43	MP-3	Z	-.041 2
44	MP-4	Z	-.037 2
45	MP-5	Z	-.038 .75
46	MP-5	Z	-.02 3.5
47	MP-6	Z	-.061 .5
48	MP-6	Z	-.018 2.5
49	MP-7	Z	-.061 .5
50	MP-8	Z	-.058 .5
51	MP-7	Z	-.035 2
52	MP-8	Z	-.04 2
53	MP-9	Z	-.065 .75
54	MP-9	Z	-.052 3.5
55	MP-10	Z	-.146 .5
56	MP-10	Z	-.039 2.5
57	MP-11	Z	-.146 .5
58	MP-12	Z	-.171 .5
59	MP-11	Z	-.047 2
60	MP-12	Z	-.034 2
61	MP-1	Z	-.052 4.75
62	MP-2	Z	-.085 6.5
63	MP-3	Z	-.085 6.5
64	MP-4	Z	-.101 6.5
65	MP-5	Z	-.038 4.75
66	MP-6	Z	-.061 6.5
67	MP-7	Z	-.061 6.5
68	MP-8	Z	-.058 6.5
69	MP-9	Z	-.065 4.75
70	MP-10	Z	-.146 6.5
71	MP-11	Z	-.146 6.5



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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
72	MP-12	Z	-0.171 6.5

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-0.31 .75
2	MP-1	X	-0.19 3.5
3	MP-2	X	-0.5 .5
4	MP-2	X	-0.16 2.5
5	MP-3	X	-0.5 .5
6	MP-4	X	-0.54 .5
7	MP-3	X	-0.27 2
8	MP-4	X	-0.27 2
9	MP-5	X	-0.31 .75
10	MP-5	X	-0.19 3.5
11	MP-6	X	-0.5 .5
12	MP-6	X	-0.16 2.5
13	MP-7	X	-0.5 .5
14	MP-8	X	-0.54 .5
15	MP-7	X	-0.27 2
16	MP-8	X	-0.27 2
17	MP-9	X	-0.48 .75
18	MP-9	X	-0.38 3.5
19	MP-10	X	-1.06 .5
20	MP-10	X	-0.29 2.5
21	MP-11	X	-1.06 .5
22	MP-12	X	-1.27 .5
23	MP-11	X	-0.34 2
24	MP-12	X	-0.23 2
25	MP-1	X	-0.31 4.75
26	MP-2	X	-0.5 6.5
27	MP-3	X	-0.5 6.5
28	MP-4	X	-0.54 6.5
29	MP-5	X	-0.31 4.75
30	MP-6	X	-0.5 6.5
31	MP-7	X	-0.5 6.5
32	MP-8	X	-0.54 6.5
33	MP-9	X	-0.48 4.75
34	MP-10	X	-1.06 6.5
35	MP-11	X	-1.06 6.5
36	MP-12	X	-1.27 6.5
37	MP-1	Z	-0.54 .75
38	MP-1	Z	-0.32 3.5
39	MP-2	Z	-0.87 .5
40	MP-2	Z	-0.28 2.5
41	MP-3	Z	-0.87 .5
42	MP-4	Z	-0.93 .5
43	MP-3	Z	-0.47 2
44	MP-4	Z	-0.47 2
45	MP-5	Z	-0.54 .75
46	MP-5	Z	-0.32 3.5
47	MP-6	Z	-0.87 .5
48	MP-6	Z	-0.28 2.5
49	MP-7	Z	-0.87 .5
50	MP-8	Z	-0.93 .5
51	MP-7	Z	-0.47 2
52	MP-8	Z	-0.47 2



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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
53	MP-9	Z	-0.83 .75
54	MP-9	Z	-0.66 3.5
55	MP-10	Z	-1.84 .5
56	MP-10	Z	-0.49 2.5
57	MP-11	Z	-1.84 .5
58	MP-12	Z	-2.19 .5
59	MP-11	Z	-0.59 2
60	MP-12	Z	-0.41 2
61	MP-1	Z	-0.54 4.75
62	MP-2	Z	-0.87 6.5
63	MP-3	Z	-0.87 6.5
64	MP-4	Z	-0.93 6.5
65	MP-5	Z	-0.54 4.75
66	MP-6	Z	-0.87 6.5
67	MP-7	Z	-0.87 6.5
68	MP-8	Z	-0.93 6.5
69	MP-9	Z	-0.83 4.75
70	MP-10	Z	-1.84 6.5
71	MP-11	Z	-1.84 6.5
72	MP-12	Z	-2.19 6.5

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Z	-0.51 .75
2	MP-1	Z	-0.24 3.5
3	MP-2	Z	-0.81 .5
4	MP-2	Z	-0.24 2.5
5	MP-3	Z	-0.81 .5
6	MP-4	Z	-0.73 .5
7	MP-3	Z	-0.49 2
8	MP-4	Z	-0.57 2
9	MP-5	Z	-0.84 .75
10	MP-5	Z	-0.63 3.5
11	MP-6	Z	-1.4 .5
12	MP-6	Z	-0.49 2.5
13	MP-7	Z	-1.4 .5
14	MP-8	Z	-1.77 .5
15	MP-7	Z	-0.63 2
16	MP-8	Z	-0.49 2
17	MP-9	Z	-0.84 .75
18	MP-9	Z	-0.63 3.5
19	MP-10	Z	-1.87 .5
20	MP-10	Z	-0.49 2.5
21	MP-11	Z	-1.87 .5
22	MP-12	Z	-2.12 .5
23	MP-11	Z	-0.63 2
24	MP-12	Z	-0.49 2
25	MP-1	Z	-0.51 4.75
26	MP-2	Z	-0.81 6.5
27	MP-3	Z	-0.81 6.5
28	MP-4	Z	-0.73 6.5
29	MP-5	Z	-0.84 4.75
30	MP-6	Z	-1.4 6.5
31	MP-7	Z	-1.4 6.5
32	MP-8	Z	-1.77 6.5
33	MP-9	Z	-0.84 4.75



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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
34	MP-10	Z	-187	6.5
35	MP-11	Z	-187	6.5
36	MP-12	Z	-212	6.5

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-1	X	.031	.75
2	MP-1	X	.019	3.5
3	MP-2	X	.05	.5
4	MP-2	X	.016	2.5
5	MP-3	X	.05	.5
6	MP-4	X	.054	.5
7	MP-3	X	.027	2
8	MP-4	X	.027	2
9	MP-5	X	.048	.75
10	MP-5	X	.038	3.5
11	MP-6	X	.08	.5
12	MP-6	X	.029	2.5
13	MP-7	X	.08	.5
14	MP-8	X	.106	.5
15	MP-7	X	.034	2
16	MP-8	X	.023	2
17	MP-9	X	.031	.75
18	MP-9	X	.019	3.5
19	MP-10	X	.068	.5
20	MP-10	X	.016	2.5
21	MP-11	X	.068	.5
22	MP-12	X	.064	.5
23	MP-11	X	.027	2
24	MP-12	X	.027	2
25	MP-1	X	.031	4.75
26	MP-2	X	.05	6.5
27	MP-3	X	.05	6.5
28	MP-4	X	.054	6.5
29	MP-5	X	.048	4.75
30	MP-6	X	.08	6.5
31	MP-7	X	.08	6.5
32	MP-8	X	.106	6.5
33	MP-9	X	.031	4.75
34	MP-10	X	.068	6.5
35	MP-11	X	.068	6.5
36	MP-12	X	.064	6.5
37	MP-1	Z	-.054	.75
38	MP-1	Z	-.032	3.5
39	MP-2	Z	-.087	.5
40	MP-2	Z	-.028	2.5
41	MP-3	Z	-.087	.5
42	MP-4	Z	-.093	.5
43	MP-3	Z	-.047	2
44	MP-4	Z	-.047	2
45	MP-5	Z	-.083	.75
46	MP-5	Z	-.066	3.5
47	MP-6	Z	-.139	.5
48	MP-6	Z	-.049	2.5
49	MP-7	Z	-.139	.5
50	MP-8	Z	-.184	.5



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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
51	MP-7	Z	-.059	2
52	MP-8	Z	-.041	2
53	MP-9	Z	-.054	.75
54	MP-9	Z	-.032	3.5
55	MP-10	Z	-.117	.5
56	MP-10	Z	-.028	2.5
57	MP-11	Z	-.117	.5
58	MP-12	Z	-.112	.5
59	MP-11	Z	-.047	2
60	MP-12	Z	-.047	2
61	MP-1	Z	-.054	4.75
62	MP-2	Z	-.087	6.5
63	MP-3	Z	-.087	6.5
64	MP-4	Z	-.093	6.5
65	MP-5	Z	-.083	4.75
66	MP-6	Z	-.139	6.5
67	MP-7	Z	-.139	6.5
68	MP-8	Z	-.184	6.5
69	MP-9	Z	-.054	4.75
70	MP-10	Z	-.117	6.5
71	MP-11	Z	-.117	6.5
72	MP-12	Z	-.112	6.5

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-1	X	.052	.75
2	MP-1	X	.036	3.5
3	MP-2	X	.085	.5
4	MP-2	X	.029	2.5
5	MP-3	X	.085	.5
6	MP-4	X	.101	.5
7	MP-3	X	.041	2
8	MP-4	X	.037	2
9	MP-5	X	.065	.75
10	MP-5	X	.052	3.5
11	MP-6	X	.109	.5
12	MP-6	X	.039	2.5
13	MP-7	X	.109	.5
14	MP-8	X	.143	.5
15	MP-7	X	.047	2
16	MP-8	X	.034	2
17	MP-9	X	.038	.75
18	MP-9	X	.02	3.5
19	MP-10	X	.082	.5
20	MP-10	X	.018	2.5
21	MP-11	X	.082	.5
22	MP-12	X	.07	.5
23	MP-11	X	.035	2
24	MP-12	X	.04	2
25	MP-1	X	.052	4.75
26	MP-2	X	.085	6.5
27	MP-3	X	.085	6.5
28	MP-4	X	.101	6.5
29	MP-5	X	.065	4.75
30	MP-6	X	.109	6.5
31	MP-7	X	.109	6.5



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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-8	X	.143	6.5
33	MP-9	X	.038	4.75
34	MP-10	X	.082	6.5
35	MP-11	X	.082	6.5
36	MP-12	X	.07	6.5
37	MP-1	Z	-.052	.75
38	MP-1	Z	-.036	3.5
39	MP-2	Z	-.085	.5
40	MP-2	Z	-.029	2.5
41	MP-3	Z	-.085	.5
42	MP-4	Z	-.101	.5
43	MP-3	Z	-.041	2
44	MP-4	Z	-.037	2
45	MP-5	Z	-.065	.75
46	MP-5	Z	-.052	3.5
47	MP-6	Z	-.109	.5
48	MP-6	Z	-.039	2.5
49	MP-7	Z	-.109	.5
50	MP-8	Z	-.143	.5
51	MP-7	Z	-.047	2
52	MP-8	Z	-.034	2
53	MP-9	Z	-.038	.75
54	MP-9	Z	-.02	3.5
55	MP-10	Z	-.082	.5
56	MP-10	Z	-.018	2.5
57	MP-11	Z	-.082	.5
58	MP-12	Z	-.07	.5
59	MP-11	Z	-.035	2
60	MP-12	Z	-.04	2
61	MP-1	Z	-.052	4.75
62	MP-2	Z	-.085	6.5
63	MP-3	Z	-.085	6.5
64	MP-4	Z	-.101	6.5
65	MP-5	Z	-.065	4.75
66	MP-6	Z	-.109	6.5
67	MP-7	Z	-.109	6.5
68	MP-8	Z	-.143	6.5
69	MP-9	Z	-.038	4.75
70	MP-10	Z	-.082	6.5
71	MP-11	Z	-.082	6.5
72	MP-12	Z	-.07	6.5

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-1	X	.073	.75
2	MP-1	X	.055	3.5
3	MP-2	X	.121	.5
4	MP-2	X	.042	2.5
5	MP-3	X	.121	.5
6	MP-4	X	.154	.5
7	MP-3	X	.055	2
8	MP-4	X	.043	2
9	MP-5	X	.073	.75
10	MP-5	X	.055	3.5
11	MP-6	X	.121	.5
12	MP-6	X	.042	2.5



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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
13	MP-7	X	.121	.5
14	MP-8	X	.154	.5
15	MP-7	X	.055	2
16	MP-8	X	.043	2
17	MP-9	X	.044	.75
18	MP-9	X	.021	3.5
19	MP-10	X	.095	.5
20	MP-10	X	.02	2.5
21	MP-11	X	.095	.5
22	MP-12	X	.076	.5
23	MP-11	X	.042	2
24	MP-12	X	.049	2
25	MP-1	X	.073	4.75
26	MP-2	X	.121	6.5
27	MP-3	X	.121	6.5
28	MP-4	X	.154	6.5
29	MP-5	X	.073	4.75
30	MP-6	X	.121	6.5
31	MP-7	X	.121	6.5
32	MP-8	X	.154	6.5
33	MP-9	X	.044	4.75
34	MP-10	X	.095	6.5
35	MP-11	X	.095	6.5
36	MP-12	X	.076	6.5
37	MP-1	Z	-.042	.75
38	MP-1	Z	-.032	3.5
39	MP-2	Z	-.07	.5
40	MP-2	Z	-.024	2.5
41	MP-3	Z	-.07	.5
42	MP-4	Z	-.089	.5
43	MP-3	Z	-.032	2
44	MP-4	Z	-.025	2
45	MP-5	Z	-.042	.75
46	MP-5	Z	-.032	3.5
47	MP-6	Z	-.07	.5
48	MP-6	Z	-.024	2.5
49	MP-7	Z	-.07	.5
50	MP-8	Z	-.089	.5
51	MP-7	Z	-.032	2
52	MP-8	Z	-.025	2
53	MP-9	Z	-.025	.75
54	MP-9	Z	-.012	3.5
55	MP-10	Z	-.055	.5
56	MP-10	Z	-.012	2.5
57	MP-11	Z	-.055	.5
58	MP-12	Z	-.044	.5
59	MP-11	Z	-.024	2
60	MP-12	Z	-.028	2
61	MP-1	Z	-.042	4.75
62	MP-2	Z	-.07	6.5
63	MP-3	Z	-.07	6.5
64	MP-4	Z	-.089	6.5
65	MP-5	Z	-.042	4.75
66	MP-6	Z	-.07	6.5
67	MP-7	Z	-.07	6.5
68	MP-8	Z	-.089	6.5
69	MP-9	Z	-.025	4.75



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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
70	MP-10	Z	-055 6.5
71	MP-11	Z	-055 6.5
72	MP-12	Z	-044 6.5

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.096 .75
2	MP-1	X	.077 3.5
3	MP-2	X	.16 .5
4	MP-2	X	.057 2.5
5	MP-3	X	.16 .5
6	MP-4	X	.212 .5
7	MP-3	X	.068 2
8	MP-4	X	.047 2
9	MP-5	X	.062 .75
10	MP-5	X	.037 3.5
11	MP-6	X	.101 .5
12	MP-6	X	.032 2.5
13	MP-7	X	.101 .5
14	MP-8	X	.108 .5
15	MP-7	X	.054 2
16	MP-8	X	.054 2
17	MP-9	X	.062 .75
18	MP-9	X	.037 3.5
19	MP-10	X	.135 .5
20	MP-10	X	.032 2.5
21	MP-11	X	.135 .5
22	MP-12	X	.129 .5
23	MP-11	X	.054 2
24	MP-12	X	.054 2
25	MP-1	X	.096 4.75
26	MP-2	X	.16 6.5
27	MP-3	X	.16 6.5
28	MP-4	X	.212 6.5
29	MP-5	X	.062 4.75
30	MP-6	X	.101 6.5
31	MP-7	X	.101 6.5
32	MP-8	X	.108 6.5
33	MP-9	X	.062 4.75
34	MP-10	X	.135 6.5
35	MP-11	X	.135 6.5
36	MP-12	X	.129 6.5

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.073 .75
2	MP-1	X	.055 3.5
3	MP-2	X	.121 .5
4	MP-2	X	.042 2.5
5	MP-3	X	.121 .5
6	MP-4	X	.154 .5
7	MP-3	X	.055 2
8	MP-4	X	.043 2
9	MP-5	X	.044 .75
10	MP-5	X	.021 3.5
11	MP-6	X	.07 .5



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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
12	MP-6	X	.02 2.5
13	MP-7	X	.07 .5
14	MP-8	X	.063 .5
15	MP-7	X	.042 2
16	MP-8	X	.049 2
17	MP-9	X	.073 .75
18	MP-9	X	.055 3.5
19	MP-10	X	.162 .5
20	MP-10	X	.042 2.5
21	MP-11	X	.162 .5
22	MP-12	X	.183 .5
23	MP-11	X	.055 2
24	MP-12	X	.043 2
25	MP-1	X	.073 4.75
26	MP-2	X	.121 6.5
27	MP-3	X	.121 6.5
28	MP-4	X	.154 6.5
29	MP-5	X	.044 4.75
30	MP-6	X	.07 6.5
31	MP-7	X	.07 6.5
32	MP-8	X	.063 6.5
33	MP-9	X	.073 4.75
34	MP-10	X	.162 6.5
35	MP-11	X	.162 6.5
36	MP-12	X	.183 6.5
37	MP-1	Z	.042 .75
38	MP-1	Z	.032 3.5
39	MP-2	Z	.07 .5
40	MP-2	Z	.024 2.5
41	MP-3	Z	.07 .5
42	MP-4	Z	.089 .5
43	MP-3	Z	.032 2
44	MP-4	Z	.025 2
45	MP-5	Z	.025 .75
46	MP-5	Z	.012 3.5
47	MP-6	Z	.04 .5
48	MP-6	Z	.012 2.5
49	MP-7	Z	.04 .5
50	MP-8	Z	.037 .5
51	MP-7	Z	.024 2
52	MP-8	Z	.028 2
53	MP-9	Z	.042 .75
54	MP-9	Z	.032 3.5
55	MP-10	Z	.093 .5
56	MP-10	Z	.024 2.5
57	MP-11	Z	.093 .5
58	MP-12	Z	.106 .5
59	MP-11	Z	.032 2
60	MP-12	Z	.025 2
61	MP-1	Z	.042 4.75
62	MP-2	Z	.07 6.5
63	MP-3	Z	.07 6.5
64	MP-4	Z	.089 6.5
65	MP-5	Z	.025 4.75
66	MP-6	Z	.04 6.5
67	MP-7	Z	.04 6.5
68	MP-8	Z	.037 6.5



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
69	MP-9	Z	.042	4.75
70	MP-10	Z	.093	6.5
71	MP-11	Z	.093	6.5
72	MP-12	Z	.106	6.5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.052	.75
2	MP-1	X	.036	3.5
3	MP-2	X	.085	.5
4	MP-2	X	.029	2.5
5	MP-3	X	.085	.5
6	MP-4	X	.101	.5
7	MP-3	X	.041	2
8	MP-4	X	.037	2
9	MP-5	X	.038	.75
10	MP-5	X	.02	3.5
11	MP-6	X	.061	.5
12	MP-6	X	.018	2.5
13	MP-7	X	.061	.5
14	MP-8	X	.058	.5
15	MP-7	X	.035	2
16	MP-8	X	.04	2
17	MP-9	X	.065	.75
18	MP-9	X	.052	3.5
19	MP-10	X	.146	.5
20	MP-10	X	.039	2.5
21	MP-11	X	.146	.5
22	MP-12	X	.171	.5
23	MP-11	X	.047	2
24	MP-12	X	.034	2
25	MP-1	X	.052	4.75
26	MP-2	X	.085	6.5
27	MP-3	X	.085	6.5
28	MP-4	X	.101	6.5
29	MP-5	X	.038	4.75
30	MP-6	X	.061	6.5
31	MP-7	X	.061	6.5
32	MP-8	X	.058	6.5
33	MP-9	X	.065	4.75
34	MP-10	X	.146	6.5
35	MP-11	X	.146	6.5
36	MP-12	X	.171	6.5
37	MP-1	Z	.052	.75
38	MP-1	Z	.036	3.5
39	MP-2	Z	.085	.5
40	MP-2	Z	.029	2.5
41	MP-3	Z	.085	.5
42	MP-4	Z	.101	.5
43	MP-3	Z	.041	2
44	MP-4	Z	.037	2
45	MP-5	Z	.038	.75
46	MP-5	Z	.02	3.5
47	MP-6	Z	.061	.5
48	MP-6	Z	.018	2.5
49	MP-7	Z	.061	.5



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
50	MP-8	Z	.058	.5
51	MP-7	Z	.035	2
52	MP-8	Z	.04	2
53	MP-9	Z	.065	.75
54	MP-9	Z	.052	3.5
55	MP-10	Z	.146	.5
56	MP-10	Z	.039	2.5
57	MP-11	Z	.146	.5
58	MP-12	Z	.171	.5
59	MP-11	Z	.047	2
60	MP-12	Z	.034	2
61	MP-1	Z	.052	4.75
62	MP-2	Z	.085	6.5
63	MP-3	Z	.085	6.5
64	MP-4	Z	.101	6.5
65	MP-5	Z	.038	4.75
66	MP-6	Z	.061	6.5
67	MP-7	Z	.061	6.5
68	MP-8	Z	.058	6.5
69	MP-9	Z	.065	4.75
70	MP-10	Z	.146	6.5
71	MP-11	Z	.146	6.5
72	MP-12	Z	.171	6.5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.031	.75
2	MP-1	X	.019	3.5
3	MP-2	X	.05	.5
4	MP-2	X	.016	2.5
5	MP-3	X	.05	.5
6	MP-4	X	.054	.5
7	MP-3	X	.027	2
8	MP-4	X	.027	2
9	MP-5	X	.031	.75
10	MP-5	X	.019	3.5
11	MP-6	X	.05	.5
12	MP-6	X	.016	2.5
13	MP-7	X	.05	.5
14	MP-8	X	.054	.5
15	MP-7	X	.027	2
16	MP-8	X	.027	2
17	MP-9	X	.048	.75
18	MP-9	X	.038	3.5
19	MP-10	X	.106	.5
20	MP-10	X	.029	2.5
21	MP-11	X	.106	.5
22	MP-12	X	.127	.5
23	MP-11	X	.034	2
24	MP-12	X	.023	2
25	MP-1	X	.031	4.75
26	MP-2	X	.05	6.5
27	MP-3	X	.05	6.5
28	MP-4	X	.054	6.5
29	MP-5	X	.031	4.75
30	MP-6	X	.05	6.5



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
31	MP-7	X	.05	6.5
32	MP-8	X	.054	6.5
33	MP-9	X	.048	4.75
34	MP-10	X	.106	6.5
35	MP-11	X	.106	6.5
36	MP-12	X	.127	6.5
37	MP-1	Z	.054	.75
38	MP-1	Z	.032	3.5
39	MP-2	Z	.087	.5
40	MP-2	Z	.028	2.5
41	MP-3	Z	.087	.5
42	MP-4	Z	.093	.5
43	MP-3	Z	.047	2
44	MP-4	Z	.047	2
45	MP-5	Z	.054	.75
46	MP-5	Z	.032	3.5
47	MP-6	Z	.087	.5
48	MP-6	Z	.028	2.5
49	MP-7	Z	.087	.5
50	MP-8	Z	.093	.5
51	MP-7	Z	.047	2
52	MP-8	Z	.047	2
53	MP-9	Z	.083	.75
54	MP-9	Z	.066	3.5
55	MP-10	Z	.184	.5
56	MP-10	Z	.049	2.5
57	MP-11	Z	.184	.5
58	MP-12	Z	.219	.5
59	MP-11	Z	.059	2
60	MP-12	Z	.041	2
61	MP-1	Z	.054	4.75
62	MP-2	Z	.087	6.5
63	MP-3	Z	.087	6.5
64	MP-4	Z	.093	6.5
65	MP-5	Z	.054	4.75
66	MP-6	Z	.087	6.5
67	MP-7	Z	.087	6.5
68	MP-8	Z	.093	6.5
69	MP-9	Z	.083	4.75
70	MP-10	Z	.184	6.5
71	MP-11	Z	.184	6.5
72	MP-12	Z	.219	6.5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Z	.051	.75
2	MP-1	Z	.024	3.5
3	MP-2	Z	.081	.5
4	MP-2	Z	.024	2.5
5	MP-3	Z	.081	.5
6	MP-4	Z	.073	.5
7	MP-3	Z	.049	2
8	MP-4	Z	.057	2
9	MP-5	Z	.084	.75
10	MP-5	Z	.063	3.5
11	MP-6	Z	.14	.5



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
12	MP-6	Z	.049	2.5
13	MP-7	Z	.14	.5
14	MP-8	Z	.177	.5
15	MP-7	Z	.063	2
16	MP-8	Z	.049	2
17	MP-9	Z	.084	.75
18	MP-9	Z	.063	3.5
19	MP-10	Z	.187	.5
20	MP-10	Z	.049	2.5
21	MP-11	Z	.187	.5
22	MP-12	Z	.212	.5
23	MP-11	Z	.063	2
24	MP-12	Z	.049	2
25	MP-1	Z	.051	4.75
26	MP-2	Z	.081	6.5
27	MP-3	Z	.081	6.5
28	MP-4	Z	.073	6.5
29	MP-5	Z	.084	4.75
30	MP-6	Z	.14	6.5
31	MP-7	Z	.14	6.5
32	MP-8	Z	.177	6.5
33	MP-9	Z	.084	4.75
34	MP-10	Z	.187	6.5
35	MP-11	Z	.187	6.5
36	MP-12	Z	.212	6.5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.031	.75
2	MP-1	X	-.019	3.5
3	MP-2	X	-.05	.5
4	MP-2	X	-.016	2.5
5	MP-3	X	-.05	.5
6	MP-4	X	-.054	.5
7	MP-3	X	-.027	2
8	MP-4	X	-.027	2
9	MP-5	X	-.048	.75
10	MP-5	X	-.038	3.5
11	MP-6	X	-.08	.5
12	MP-6	X	-.029	2.5
13	MP-7	X	-.08	.5
14	MP-8	X	-.106	.5
15	MP-7	X	-.034	2
16	MP-8	X	-.023	2
17	MP-9	X	-.031	.75
18	MP-9	X	-.019	3.5
19	MP-10	X	-.068	.5
20	MP-10	X	-.016	2.5
21	MP-11	X	-.068	.5
22	MP-12	X	-.064	.5
23	MP-11	X	-.027	2
24	MP-12	X	-.027	2
25	MP-1	X	-.031	4.75
26	MP-2	X	-.05	6.5
27	MP-3	X	-.05	6.5
28	MP-4	X	-.054	6.5



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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
29	MP-5	X	-0.48	4.75
30	MP-6	X	-.08	6.5
31	MP-7	X	-.08	6.5
32	MP-8	X	-.106	6.5
33	MP-9	X	-.031	4.75
34	MP-10	X	-.068	6.5
35	MP-11	X	-.068	6.5
36	MP-12	X	-.064	6.5
37	MP-1	Z	.054	.75
38	MP-1	Z	.032	3.5
39	MP-2	Z	.087	.5
40	MP-2	Z	.028	2.5
41	MP-3	Z	.087	.5
42	MP-4	Z	.093	.5
43	MP-3	Z	.047	2
44	MP-4	Z	.047	2
45	MP-5	Z	.083	.75
46	MP-5	Z	.066	3.5
47	MP-6	Z	.139	.5
48	MP-6	Z	.049	2.5
49	MP-7	Z	.139	.5
50	MP-8	Z	.184	.5
51	MP-7	Z	.059	2
52	MP-8	Z	.041	2
53	MP-9	Z	.054	.75
54	MP-9	Z	.032	3.5
55	MP-10	Z	.117	.5
56	MP-10	Z	.028	2.5
57	MP-11	Z	.117	.5
58	MP-12	Z	.112	.5
59	MP-11	Z	.047	2
60	MP-12	Z	.047	2
61	MP-1	Z	.054	4.75
62	MP-2	Z	.087	6.5
63	MP-3	Z	.087	6.5
64	MP-4	Z	.093	6.5
65	MP-5	Z	.083	4.75
66	MP-6	Z	.139	6.5
67	MP-7	Z	.139	6.5
68	MP-8	Z	.184	6.5
69	MP-9	Z	.054	4.75
70	MP-10	Z	.117	6.5
71	MP-11	Z	.117	6.5
72	MP-12	Z	.112	6.5

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-1	X	-.052	.75
2	MP-1	X	-.036	3.5
3	MP-2	X	-.085	.5
4	MP-2	X	-.029	2.5
5	MP-3	X	-.085	.5
6	MP-4	X	-.101	.5
7	MP-3	X	-.041	2
8	MP-4	X	-.037	2
9	MP-5	X	-.065	.75



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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
10	MP-5	X	-.052	3.5
11	MP-6	X	-.109	.5
12	MP-6	X	-.039	2.5
13	MP-7	X	-.109	.5
14	MP-8	X	-.143	.5
15	MP-7	X	-.047	2
16	MP-8	X	-.034	2
17	MP-9	X	-.038	.75
18	MP-9	X	-.02	3.5
19	MP-10	X	-.082	.5
20	MP-10	X	-.018	2.5
21	MP-11	X	-.082	.5
22	MP-12	X	-.07	.5
23	MP-11	X	-.035	2
24	MP-12	X	-.04	2
25	MP-1	X	-.052	4.75
26	MP-2	X	-.085	6.5
27	MP-3	X	-.085	6.5
28	MP-4	X	-.101	6.5
29	MP-5	X	-.065	4.75
30	MP-6	X	-.109	6.5
31	MP-7	X	-.109	6.5
32	MP-8	X	-.143	6.5
33	MP-9	X	-.038	4.75
34	MP-10	X	-.082	6.5
35	MP-11	X	-.082	6.5
36	MP-12	X	-.07	6.5
37	MP-1	Z	.052	.75
38	MP-1	Z	.036	3.5
39	MP-2	Z	.085	.5
40	MP-2	Z	.029	2.5
41	MP-3	Z	.085	.5
42	MP-4	Z	.101	.5
43	MP-3	Z	.041	2
44	MP-4	Z	.037	2
45	MP-5	Z	.065	.75
46	MP-5	Z	.052	3.5
47	MP-6	Z	.109	.5
48	MP-6	Z	.039	2.5
49	MP-7	Z	.109	.5
50	MP-8	Z	.143	.5
51	MP-7	Z	.047	2
52	MP-8	Z	.034	2
53	MP-9	Z	.038	.75
54	MP-9	Z	.02	3.5
55	MP-10	Z	.082	.5
56	MP-10	Z	.018	2.5
57	MP-11	Z	.082	.5
58	MP-12	Z	.07	.5
59	MP-11	Z	.035	2
60	MP-12	Z	.04	2
61	MP-1	Z	.052	4.75
62	MP-2	Z	.085	6.5
63	MP-3	Z	.085	6.5
64	MP-4	Z	.101	6.5
65	MP-5	Z	.065	4.75
66	MP-6	Z	.109	6.5



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
67	MP-7	Z	.109	6.5
68	MP-8	Z	.143	6.5
69	MP-9	Z	.038	4.75
70	MP-10	Z	.082	6.5
71	MP-11	Z	.082	6.5
72	MP-12	Z	.07	6.5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.073	.75
2	MP-1	X	-.055	3.5
3	MP-2	X	-.121	.5
4	MP-2	X	-.042	2.5
5	MP-3	X	-.121	.5
6	MP-4	X	-.154	.5
7	MP-3	X	-.055	2
8	MP-4	X	-.043	2
9	MP-5	X	-.073	.75
10	MP-5	X	-.055	3.5
11	MP-6	X	-.121	.5
12	MP-6	X	-.042	2.5
13	MP-7	X	-.121	.5
14	MP-8	X	-.154	.5
15	MP-7	X	-.055	2
16	MP-8	X	-.043	2
17	MP-9	X	-.044	.75
18	MP-9	X	-.021	3.5
19	MP-10	X	-.095	.5
20	MP-10	X	-.02	2.5
21	MP-11	X	-.095	.5
22	MP-12	X	-.076	.5
23	MP-11	X	-.042	2
24	MP-12	X	-.049	2
25	MP-1	X	-.073	4.75
26	MP-2	X	-.121	6.5
27	MP-3	X	-.121	6.5
28	MP-4	X	-.154	6.5
29	MP-5	X	-.073	4.75
30	MP-6	X	-.121	6.5
31	MP-7	X	-.121	6.5
32	MP-8	X	-.154	6.5
33	MP-9	X	-.044	4.75
34	MP-10	X	-.095	6.5
35	MP-11	X	-.095	6.5
36	MP-12	X	-.076	6.5
37	MP-1	Z	.042	.75
38	MP-1	Z	.032	3.5
39	MP-2	Z	.07	.5
40	MP-2	Z	.024	2.5
41	MP-3	Z	.07	.5
42	MP-4	Z	.089	.5
43	MP-3	Z	.032	2
44	MP-4	Z	.025	2
45	MP-5	Z	.042	.75
46	MP-5	Z	.032	3.5
47	MP-6	Z	.07	.5



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
48	MP-6	Z	.024	2.5
49	MP-7	Z	.07	.5
50	MP-8	Z	.089	.5
51	MP-7	Z	.032	2
52	MP-8	Z	.025	2
53	MP-9	Z	.025	.75
54	MP-9	Z	.012	3.5
55	MP-10	Z	.055	.5
56	MP-10	Z	.012	2.5
57	MP-11	Z	.055	.5
58	MP-12	Z	.044	.5
59	MP-11	Z	.024	2
60	MP-12	Z	.028	2
61	MP-1	Z	.042	4.75
62	MP-2	Z	.07	6.5
63	MP-3	Z	.07	6.5
64	MP-4	Z	.089	6.5
65	MP-5	Z	.042	4.75
66	MP-6	Z	.07	6.5
67	MP-7	Z	.07	6.5
68	MP-8	Z	.089	6.5
69	MP-9	Z	.025	4.75
70	MP-10	Z	.055	6.5
71	MP-11	Z	.055	6.5
72	MP-12	Z	.044	6.5

Member Point Loads (BLC 18 : Ice Weight)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Y	-.039	.75
2	MP-1	Y	-.037	3.5
3	MP-2	Y	-.062	.5
4	MP-2	Y	-.031	2.5
5	MP-3	Y	-.062	.5
6	MP-4	Y	-.089	.5
7	MP-3	Y	-.045	2
8	MP-4	Y	-.042	2
9	MP-5	Y	-.039	.75
10	MP-5	Y	-.037	3.5
11	MP-6	Y	-.062	.5
12	MP-6	Y	-.031	2.5
13	MP-7	Y	-.062	.5
14	MP-8	Y	-.089	.5
15	MP-7	Y	-.045	2
16	MP-8	Y	-.042	2
17	MP-9	Y	-.039	.75
18	MP-9	Y	-.037	3.5
19	MP-10	Y	-.079	.5
20	MP-10	Y	-.031	2.5
21	MP-11	Y	-.079	.5
22	MP-12	Y	-.107	.5
23	MP-11	Y	-.045	2
24	MP-12	Y	-.042	2
25	MP-1	Y	-.039	4.75
26	MP-2	Y	-.062	6.5
27	MP-3	Y	-.062	6.5
28	MP-4	Y	-.089	6.5



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
29	MP-5	Y	-0.39	4.75
30	MP-6	Y	-0.62	6.5
31	MP-7	Y	-0.62	6.5
32	MP-8	Y	-0.89	6.5
33	MP-9	Y	-0.39	4.75
34	MP-10	Y	-0.79	6.5
35	MP-11	Y	-0.79	6.5
36	MP-12	Y	-1.07	6.5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-0.17	.75
2	MP-1	X	-0.16	3.5
3	MP-2	X	-0.28	.5
4	MP-2	X	-0.11	2.5
5	MP-3	X	-0.28	.5
6	MP-4	X	-0.35	.5
7	MP-3	X	-0.13	2
8	MP-4	X	-0.11	2
9	MP-5	X	-0.17	.75
10	MP-5	X	-0.16	3.5
11	MP-6	X	-0.28	.5
12	MP-6	X	-0.11	2.5
13	MP-7	X	-0.28	.5
14	MP-8	X	-0.35	.5
15	MP-7	X	-0.13	2
16	MP-8	X	-0.11	2
17	MP-9	X	-0.17	.75
18	MP-9	X	-0.16	3.5
19	MP-10	X	-0.36	.5
20	MP-10	X	-0.11	2.5
21	MP-11	X	-0.36	.5
22	MP-12	X	-0.42	.5
23	MP-11	X	-0.13	2
24	MP-12	X	-0.11	2
25	MP-1	X	-0.17	4.75
26	MP-2	X	-0.28	6.5
27	MP-3	X	-0.28	6.5
28	MP-4	X	-0.35	6.5
29	MP-5	X	-0.17	4.75
30	MP-6	X	-0.28	6.5
31	MP-7	X	-0.28	6.5
32	MP-8	X	-0.35	6.5
33	MP-9	X	-0.17	4.75
34	MP-10	X	-0.36	6.5
35	MP-11	X	-0.36	6.5
36	MP-12	X	-0.42	6.5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-0.13	.75
2	MP-1	X	-0.12	3.5
3	MP-2	X	-0.21	.5
4	MP-2	X	-0.09	2.5
5	MP-3	X	-0.21	.5
6	MP-4	X	-0.26	.5



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
7	MP-3	X	-0.11	2
8	MP-4	X	-0.09	2
9	MP-5	X	-0.09	.75
10	MP-5	X	-0.06	3.5
11	MP-6	X	-0.14	.5
12	MP-6	X	-0.05	2.5
13	MP-7	X	-0.14	.5
14	MP-8	X	-0.12	.5
15	MP-7	X	-0.09	2
16	MP-8	X	-0.01	2
17	MP-9	X	-0.13	.75
18	MP-9	X	-0.12	3.5
19	MP-10	X	-0.28	.5
20	MP-10	X	-0.09	2.5
21	MP-11	X	-0.28	.5
22	MP-12	X	-0.31	.5
23	MP-11	X	-0.11	2
24	MP-12	X	-0.09	2
25	MP-1	X	-0.13	4.75
26	MP-2	X	-0.21	6.5
27	MP-3	X	-0.21	6.5
28	MP-4	X	-0.26	6.5
29	MP-5	X	-0.09	4.75
30	MP-6	X	-0.14	6.5
31	MP-7	X	-0.14	6.5
32	MP-8	X	-0.12	6.5
33	MP-9	X	-0.13	4.75
34	MP-10	X	-0.28	6.5
35	MP-11	X	-0.28	6.5
36	MP-12	X	-0.31	6.5
37	MP-1	Z	-0.08	.75
38	MP-1	Z	-0.07	3.5
39	MP-2	Z	-0.12	.5
40	MP-2	Z	-0.05	2.5
41	MP-3	Z	-0.12	.5
42	MP-4	Z	-0.15	.5
43	MP-3	Z	-0.06	2
44	MP-4	Z	-0.05	2
45	MP-5	Z	-0.05	.75
46	MP-5	Z	-0.04	3.5
47	MP-6	Z	-0.08	.5
48	MP-6	Z	-0.03	2.5
49	MP-7	Z	-0.08	.5
50	MP-8	Z	-0.07	.5
51	MP-7	Z	-0.05	2
52	MP-8	Z	-0.06	2
53	MP-9	Z	-0.08	.75
54	MP-9	Z	-0.07	3.5
55	MP-10	Z	-0.16	.5
56	MP-10	Z	-0.05	2.5
57	MP-11	Z	-0.16	.5
58	MP-12	Z	-0.18	.5
59	MP-11	Z	-0.06	2
60	MP-12	Z	-0.05	2
61	MP-1	Z	-0.08	4.75
62	MP-2	Z	-0.12	6.5
63	MP-3	Z	-0.12	6.5



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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
64	MP-4	Z	6.5
65	MP-5	Z	4.75
66	MP-6	Z	6.5
67	MP-7	Z	6.5
68	MP-8	Z	6.5
69	MP-9	Z	4.75
70	MP-10	Z	6.5
71	MP-11	Z	6.5
72	MP-12	Z	6.5

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.75
2	MP-1	X	3.5
3	MP-2	X	.5
4	MP-2	X	2.5
5	MP-3	X	.5
6	MP-4	X	.5
7	MP-3	X	2
8	MP-4	X	2
9	MP-5	X	.75
10	MP-5	X	3.5
11	MP-6	X	.5
12	MP-6	X	2.5
13	MP-7	X	.5
14	MP-8	X	.5
15	MP-7	X	2
16	MP-8	X	2
17	MP-9	X	.75
18	MP-9	X	3.5
19	MP-10	X	.5
20	MP-10	X	2.5
21	MP-11	X	.5
22	MP-12	X	.5
23	MP-11	X	2
24	MP-12	X	2
25	MP-1	X	4.75
26	MP-2	X	6.5
27	MP-3	X	6.5
28	MP-4	X	6.5
29	MP-5	X	4.75
30	MP-6	X	6.5
31	MP-7	X	6.5
32	MP-8	X	6.5
33	MP-9	X	4.75
34	MP-10	X	6.5
35	MP-11	X	6.5
36	MP-12	X	6.5
37	MP-1	Z	.75
38	MP-1	Z	3.5
39	MP-2	Z	.5
40	MP-2	Z	2.5
41	MP-3	Z	.5
42	MP-4	Z	.5
43	MP-3	Z	2
44	MP-4	Z	2



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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
45	MP-5	Z	.75
46	MP-5	Z	3.5
47	MP-6	Z	.5
48	MP-6	Z	2.5
49	MP-7	Z	.5
50	MP-8	Z	.5
51	MP-7	Z	2
52	MP-8	Z	2
53	MP-9	Z	.75
54	MP-9	Z	3.5
55	MP-10	Z	.5
56	MP-10	Z	2.5
57	MP-11	Z	.5
58	MP-12	Z	.5
59	MP-11	Z	2
60	MP-12	Z	2
61	MP-1	Z	4.75
62	MP-2	Z	6.5
63	MP-3	Z	6.5
64	MP-4	Z	6.5
65	MP-5	Z	4.75
66	MP-6	Z	6.5
67	MP-7	Z	6.5
68	MP-8	Z	6.5
69	MP-9	Z	4.75
70	MP-10	Z	6.5
71	MP-11	Z	6.5
72	MP-12	Z	6.5

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.75
2	MP-1	X	3.5
3	MP-2	X	.5
4	MP-2	X	2.5
5	MP-3	X	.5
6	MP-4	X	.5
7	MP-3	X	2
8	MP-4	X	2
9	MP-5	X	.75
10	MP-5	X	3.5
11	MP-6	X	.5
12	MP-6	X	2.5
13	MP-7	X	.5
14	MP-8	X	.5
15	MP-7	X	2
16	MP-8	X	2
17	MP-9	X	.75
18	MP-9	X	3.5
19	MP-10	X	.5
20	MP-10	X	2.5
21	MP-11	X	.5
22	MP-12	X	.5
23	MP-11	X	2
24	MP-12	X	2
25	MP-1	X	4.75



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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
26	MP-2	X	6.5
27	MP-3	X	6.5
28	MP-4	X	6.5
29	MP-5	X	4.75
30	MP-6	X	6.5
31	MP-7	X	6.5
32	MP-8	X	6.5
33	MP-9	X	4.75
34	MP-10	X	6.5
35	MP-11	X	6.5
36	MP-12	X	6.5
37	MP-1	Z	.75
38	MP-1	Z	3.5
39	MP-2	Z	.5
40	MP-2	Z	2.5
41	MP-3	Z	.5
42	MP-4	Z	.5
43	MP-3	Z	2
44	MP-4	Z	2
45	MP-5	Z	.75
46	MP-5	Z	3.5
47	MP-6	Z	.5
48	MP-6	Z	2.5
49	MP-7	Z	.5
50	MP-8	Z	.5
51	MP-7	Z	2
52	MP-8	Z	2
53	MP-9	Z	.75
54	MP-9	Z	3.5
55	MP-10	Z	.5
56	MP-10	Z	2.5
57	MP-11	Z	.5
58	MP-12	Z	.5
59	MP-11	Z	2
60	MP-12	Z	2
61	MP-1	Z	4.75
62	MP-2	Z	.5
63	MP-3	Z	6.5
64	MP-4	Z	6.5
65	MP-5	Z	4.75
66	MP-6	Z	6.5
67	MP-7	Z	6.5
68	MP-8	Z	6.5
69	MP-9	Z	4.75
70	MP-10	Z	6.5
71	MP-11	Z	6.5
72	MP-12	Z	6.5

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Z	.75
2	MP-1	Z	3.5
3	MP-2	Z	.5
4	MP-2	Z	2.5
5	MP-3	Z	.5
6	MP-4	Z	.5



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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
7	MP-3	Z	.01
8	MP-4	Z	.01
9	MP-5	Z	.011
10	MP-5	Z	.007
11	MP-6	Z	.016
12	MP-6	Z	.006
13	MP-7	Z	.016
14	MP-8	Z	.014
15	MP-7	Z	.01
16	MP-8	Z	.01
17	MP-9	Z	.011
18	MP-9	Z	.007
19	MP-10	Z	.021
20	MP-10	Z	.006
21	MP-11	Z	.021
22	MP-12	Z	.017
23	MP-11	Z	.01
24	MP-12	Z	.01
25	MP-1	Z	.011
26	MP-2	Z	.016
27	MP-3	Z	.016
28	MP-4	Z	.014
29	MP-5	Z	.011
30	MP-6	Z	.016
31	MP-7	Z	.016
32	MP-8	Z	.014
33	MP-9	Z	.011
34	MP-10	Z	.021
35	MP-11	Z	.021
36	MP-12	Z	.017

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.006
2	MP-1	X	.005
3	MP-2	X	.009
4	MP-2	X	.004
5	MP-3	X	.009
6	MP-4	X	.01
7	MP-3	X	.005
8	MP-4	X	.005
9	MP-5	X	.009
10	MP-5	X	.008
11	MP-6	X	.014
12	MP-6	X	.006
13	MP-7	X	.014
14	MP-8	X	.018
15	MP-7	X	.007
16	MP-8	X	.005
17	MP-9	X	.006
18	MP-9	X	.005
19	MP-10	X	.012
20	MP-10	X	.004
21	MP-11	X	.012
22	MP-12	X	.012
23	MP-11	X	.005



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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
24	MP-12	X	.005	2
25	MP-1	X	.006	4.75
26	MP-2	X	.009	6.5
27	MP-3	X	.009	6.5
28	MP-4	X	.01	6.5
29	MP-5	X	.009	4.75
30	MP-6	X	.014	6.5
31	MP-7	X	.014	6.5
32	MP-8	X	.018	6.5
33	MP-9	X	.006	4.75
34	MP-10	X	.012	6.5
35	MP-11	X	.012	6.5
36	MP-12	X	.012	6.5
37	MP-1	Z	-.011	.75
38	MP-1	Z	-.008	3.5
39	MP-2	Z	-.016	.5
40	MP-2	Z	-.006	2.5
41	MP-3	Z	-.016	.5
42	MP-4	Z	-.017	.5
43	MP-3	Z	-.009	2
44	MP-4	Z	-.009	2
45	MP-5	Z	-.015	.75
46	MP-5	Z	-.014	3.5
47	MP-6	Z	-.024	.5
48	MP-6	Z	-.01	2.5
49	MP-7	Z	-.024	.5
50	MP-8	Z	-.031	.5
51	MP-7	Z	-.011	2
52	MP-8	Z	-.008	2
53	MP-9	Z	-.011	.75
54	MP-9	Z	-.008	3.5
55	MP-10	Z	-.021	.5
56	MP-10	Z	-.006	2.5
57	MP-11	Z	-.021	.5
58	MP-12	Z	-.02	.5
59	MP-11	Z	-.009	2
60	MP-12	Z	-.009	2
61	MP-1	Z	-.011	4.75
62	MP-2	Z	-.016	6.5
63	MP-3	Z	-.016	6.5
64	MP-4	Z	-.017	6.5
65	MP-5	Z	-.015	4.75
66	MP-6	Z	-.024	6.5
67	MP-7	Z	-.024	6.5
68	MP-8	Z	-.031	6.5
69	MP-9	Z	-.011	4.75
70	MP-10	Z	-.021	6.5
71	MP-11	Z	-.021	6.5
72	MP-12	Z	-.02	6.5

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-1	X	.01	.75
2	MP-1	X	.008	3.5
3	MP-2	X	.015	.5
4	MP-2	X	.006	2.5



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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
5	MP-3	X	.015	.5
6	MP-4	X	.018	.5
7	MP-3	X	.008	2
8	MP-4	X	.007	2
9	MP-5	X	.012	.75
10	MP-5	X	.011	3.5
11	MP-6	X	.019	.5
12	MP-6	X	.008	2.5
13	MP-7	X	.019	.5
14	MP-8	X	.024	.5
15	MP-7	X	.009	2
16	MP-8	X	.007	2
17	MP-9	X	.008	.75
18	MP-9	X	.005	3.5
19	MP-10	X	.015	.5
20	MP-10	X	.004	2.5
21	MP-11	X	.015	.5
22	MP-12	X	.013	.5
23	MP-11	X	.007	2
24	MP-12	X	.008	2
25	MP-1	X	.01	4.75
26	MP-2	X	.015	6.5
27	MP-3	X	.015	6.5
28	MP-4	X	.018	6.5
29	MP-5	X	.012	4.75
30	MP-6	X	.019	6.5
31	MP-7	X	.019	6.5
32	MP-8	X	.024	6.5
33	MP-9	X	.008	4.75
34	MP-10	X	.015	6.5
35	MP-11	X	.015	6.5
36	MP-12	X	.013	6.5
37	MP-1	Z	-.01	.75
38	MP-1	Z	-.008	3.5
39	MP-2	Z	-.015	.5
40	MP-2	Z	-.006	2.5
41	MP-3	Z	-.015	.5
42	MP-4	Z	-.018	.5
43	MP-3	Z	-.008	2
44	MP-4	Z	-.007	2
45	MP-5	Z	-.012	.75
46	MP-5	Z	-.011	3.5
47	MP-6	Z	-.019	.5
48	MP-6	Z	-.008	2.5
49	MP-7	Z	-.019	.5
50	MP-8	Z	-.024	.5
51	MP-7	Z	-.009	2
52	MP-8	Z	-.007	2
53	MP-9	Z	-.008	.75
54	MP-9	Z	-.005	3.5
55	MP-10	Z	-.015	.5
56	MP-10	Z	-.004	2.5
57	MP-11	Z	-.015	.5
58	MP-12	Z	-.013	.5
59	MP-11	Z	-.007	2
60	MP-12	Z	-.008	2
61	MP-1	Z	-.01	4.75



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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
62	MP-2	Z	-0.15	6.5
63	MP-3	Z	-0.15	6.5
64	MP-4	Z	-0.18	6.5
65	MP-5	Z	-0.12	4.75
66	MP-6	Z	-0.19	6.5
67	MP-7	Z	-0.19	6.5
68	MP-8	Z	-0.24	6.5
69	MP-9	Z	-0.08	4.75
70	MP-10	Z	-0.15	6.5
71	MP-11	Z	-0.15	6.5
72	MP-12	Z	-0.13	6.5

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-1	X	.013	.75
2	MP-1	X	.012	3.5
3	MP-2	X	.021	.5
4	MP-2	X	.009	2.5
5	MP-3	X	.021	.5
6	MP-4	X	.026	.5
7	MP-3	X	.011	2
8	MP-4	X	.009	2
9	MP-5	X	.013	.75
10	MP-5	X	.012	3.5
11	MP-6	X	.021	.5
12	MP-6	X	.009	2.5
13	MP-7	X	.021	.5
14	MP-8	X	.026	.5
15	MP-7	X	.011	2
16	MP-8	X	.009	2
17	MP-9	X	.009	.75
18	MP-9	X	.006	3.5
19	MP-10	X	.018	.5
20	MP-10	X	.005	2.5
21	MP-11	X	.018	.5
22	MP-12	X	.015	.5
23	MP-11	X	.009	2
24	MP-12	X	.01	2
25	MP-1	X	.013	4.75
26	MP-2	X	.021	6.5
27	MP-3	X	.021	6.5
28	MP-4	X	.026	6.5
29	MP-5	X	.013	4.75
30	MP-6	X	.021	6.5
31	MP-7	X	.021	6.5
32	MP-8	X	.026	6.5
33	MP-9	X	.009	4.75
34	MP-10	X	.018	6.5
35	MP-11	X	.018	6.5
36	MP-12	X	.015	6.5
37	MP-1	Z	-.008	.75
38	MP-1	Z	-.007	3.5
39	MP-2	Z	-.012	.5
40	MP-2	Z	-.005	2.5
41	MP-3	Z	-.012	.5
42	MP-4	Z	-.015	.5



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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
43	MP-3	Z	-.006	2
44	MP-4	Z	-.005	2
45	MP-5	Z	-.008	.75
46	MP-5	Z	-.007	3.5
47	MP-6	Z	-.012	.5
48	MP-6	Z	-.005	2.5
49	MP-7	Z	-.012	.5
50	MP-8	Z	-.015	.5
51	MP-7	Z	-.006	2
52	MP-8	Z	-.005	2
53	MP-9	Z	-.005	.75
54	MP-9	Z	-.004	3.5
55	MP-10	Z	-.01	.5
56	MP-10	Z	-.003	2.5
57	MP-11	Z	-.01	.5
58	MP-12	Z	-.008	.5
59	MP-11	Z	-.005	2
60	MP-12	Z	-.006	2
61	MP-1	Z	-.008	4.75
62	MP-2	Z	-.012	6.5
63	MP-3	Z	-.012	6.5
64	MP-4	Z	-.015	6.5
65	MP-5	Z	-.008	4.75
66	MP-6	Z	-.012	6.5
67	MP-7	Z	-.012	6.5
68	MP-8	Z	-.015	6.5
69	MP-9	Z	-.005	4.75
70	MP-10	Z	-.01	6.5
71	MP-11	Z	-.01	6.5
72	MP-12	Z	-.008	6.5

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-1	X	.017	.75
2	MP-1	X	.016	3.5
3	MP-2	X	.028	.5
4	MP-2	X	.011	2.5
5	MP-3	X	.028	.5
6	MP-4	X	.035	.5
7	MP-3	X	.013	2
8	MP-4	X	.011	2
9	MP-5	X	.017	.75
10	MP-5	X	.016	3.5
11	MP-6	X	.028	.5
12	MP-6	X	.011	2.5
13	MP-7	X	.028	.5
14	MP-8	X	.035	.5
15	MP-7	X	.013	2
16	MP-8	X	.011	2
17	MP-9	X	.017	.75
18	MP-9	X	.016	3.5
19	MP-10	X	.036	.5
20	MP-10	X	.011	2.5
21	MP-11	X	.036	.5
22	MP-12	X	.042	.5
23	MP-11	X	.013	2



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
24	MP-12	X	.011	2
25	MP-1	X	.017	4.75
26	MP-2	X	.028	6.5
27	MP-3	X	.028	6.5
28	MP-4	X	.035	6.5
29	MP-5	X	.017	4.75
30	MP-6	X	.028	6.5
31	MP-7	X	.028	6.5
32	MP-8	X	.035	6.5
33	MP-9	X	.017	4.75
34	MP-10	X	.036	6.5
35	MP-11	X	.036	6.5
36	MP-12	X	.042	6.5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.013	.75
2	MP-1	X	.012	3.5
3	MP-2	X	.021	.5
4	MP-2	X	.009	2.5
5	MP-3	X	.021	.5
6	MP-4	X	.026	.5
7	MP-3	X	.011	2
8	MP-4	X	.009	2
9	MP-5	X	.009	.75
10	MP-5	X	.006	3.5
11	MP-6	X	.014	.5
12	MP-6	X	.005	2.5
13	MP-7	X	.014	.5
14	MP-8	X	.012	.5
15	MP-7	X	.009	2
16	MP-8	X	.01	2
17	MP-9	X	.013	.75
18	MP-9	X	.012	3.5
19	MP-10	X	.028	.5
20	MP-10	X	.009	2.5
21	MP-11	X	.028	.5
22	MP-12	X	.031	.5
23	MP-11	X	.011	2
24	MP-12	X	.009	2
25	MP-1	X	.013	4.75
26	MP-2	X	.021	6.5
27	MP-3	X	.021	6.5
28	MP-4	X	.026	6.5
29	MP-5	X	.009	4.75
30	MP-6	X	.014	6.5
31	MP-7	X	.014	6.5
32	MP-8	X	.012	6.5
33	MP-9	X	.013	4.75
34	MP-10	X	.028	6.5
35	MP-11	X	.028	6.5
36	MP-12	X	.031	6.5
37	MP-1	Z	.008	.75
38	MP-1	Z	.007	3.5
39	MP-2	Z	.012	.5
40	MP-2	Z	.005	2.5



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
41	MP-3	Z	.012	.5
42	MP-4	Z	.015	.5
43	MP-3	Z	.006	2
44	MP-4	Z	.005	2
45	MP-5	Z	.005	.75
46	MP-5	Z	.004	3.5
47	MP-6	Z	.008	.5
48	MP-6	Z	.003	2.5
49	MP-7	Z	.008	.5
50	MP-8	Z	.007	.5
51	MP-7	Z	.005	2
52	MP-8	Z	.006	2
53	MP-9	Z	.008	.75
54	MP-9	Z	.007	3.5
55	MP-10	Z	.016	.5
56	MP-10	Z	.005	2.5
57	MP-11	Z	.016	.5
58	MP-12	Z	.018	.5
59	MP-11	Z	.006	2
60	MP-12	Z	.005	2
61	MP-1	Z	.008	4.75
62	MP-2	Z	.012	6.5
63	MP-3	Z	.012	6.5
64	MP-4	Z	.015	6.5
65	MP-5	Z	.005	4.75
66	MP-6	Z	.008	6.5
67	MP-7	Z	.008	6.5
68	MP-8	Z	.007	6.5
69	MP-9	Z	.008	4.75
70	MP-10	Z	.016	6.5
71	MP-11	Z	.016	6.5
72	MP-12	Z	.018	6.5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.01	.75
2	MP-1	X	.008	3.5
3	MP-2	X	.015	.5
4	MP-2	X	.006	2.5
5	MP-3	X	.015	.5
6	MP-4	X	.018	.5
7	MP-3	X	.008	2
8	MP-4	X	.007	2
9	MP-5	X	.008	.75
10	MP-5	X	.005	3.5
11	MP-6	X	.012	.5
12	MP-6	X	.004	2.5
13	MP-7	X	.012	.5
14	MP-8	X	.011	.5
15	MP-7	X	.007	2
16	MP-8	X	.008	2
17	MP-9	X	.012	.75
18	MP-9	X	.011	3.5
19	MP-10	X	.025	.5
20	MP-10	X	.008	2.5
21	MP-11	X	.025	.5



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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
22	MP-12	X	.028	.5
23	MP-11	X	.009	2
24	MP-12	X	.007	2
25	MP-1	X	.01	4.75
26	MP-2	X	.015	6.5
27	MP-3	X	.015	6.5
28	MP-4	X	.018	6.5
29	MP-5	X	.008	4.75
30	MP-6	X	.012	6.5
31	MP-7	X	.012	6.5
32	MP-8	X	.011	6.5
33	MP-9	X	.012	4.75
34	MP-10	X	.025	6.5
35	MP-11	X	.025	6.5
36	MP-12	X	.028	6.5
37	MP-1	Z	.01	.75
38	MP-1	Z	.008	3.5
39	MP-2	Z	.015	.5
40	MP-2	Z	.006	2.5
41	MP-3	Z	.015	.5
42	MP-4	Z	.018	.5
43	MP-3	Z	.008	2
44	MP-4	Z	.007	2
45	MP-5	Z	.008	.75
46	MP-5	Z	.005	3.5
47	MP-6	Z	.012	.5
48	MP-6	Z	.004	2.5
49	MP-7	Z	.012	.5
50	MP-8	Z	.011	.5
51	MP-7	Z	.007	2
52	MP-8	Z	.008	2
53	MP-9	Z	.012	.75
54	MP-9	Z	.011	3.5
55	MP-10	Z	.025	.5
56	MP-10	Z	.008	2.5
57	MP-11	Z	.025	.5
58	MP-12	Z	.028	.5
59	MP-11	Z	.009	2
60	MP-12	Z	.007	2
61	MP-1	Z	.01	4.75
62	MP-2	Z	.015	6.5
63	MP-3	Z	.015	6.5
64	MP-4	Z	.018	6.5
65	MP-5	Z	.008	4.75
66	MP-6	Z	.012	6.5
67	MP-7	Z	.012	6.5
68	MP-8	Z	.011	6.5
69	MP-9	Z	.012	4.75
70	MP-10	Z	.025	6.5
71	MP-11	Z	.025	6.5
72	MP-12	Z	.028	6.5

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-1	X	.006	.75
2	MP-1	X	.005	3.5



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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
3	MP-2	X	.009	.5
4	MP-2	X	.004	2.5
5	MP-3	X	.009	.5
6	MP-4	X	.01	.5
7	MP-3	X	.005	2
8	MP-4	X	.005	2
9	MP-5	X	.006	.75
10	MP-5	X	.005	3.5
11	MP-6	X	.009	.5
12	MP-6	X	.004	2.5
13	MP-7	X	.009	.5
14	MP-8	X	.01	.5
15	MP-7	X	.005	2
16	MP-8	X	.005	2
17	MP-9	X	.009	.75
18	MP-9	X	.008	3.5
19	MP-10	X	.018	.5
20	MP-10	X	.006	2.5
21	MP-11	X	.018	.5
22	MP-12	X	.021	.5
23	MP-11	X	.007	2
24	MP-12	X	.005	2
25	MP-1	X	.006	4.75
26	MP-2	X	.009	6.5
27	MP-3	X	.009	6.5
28	MP-4	X	.01	6.5
29	MP-5	X	.006	4.75
30	MP-6	X	.009	6.5
31	MP-7	X	.009	6.5
32	MP-8	X	.01	6.5
33	MP-9	X	.009	4.75
34	MP-10	X	.018	6.5
35	MP-11	X	.018	6.5
36	MP-12	X	.021	6.5
37	MP-1	Z	.011	.75
38	MP-1	Z	.008	3.5
39	MP-2	Z	.016	.5
40	MP-2	Z	.006	2.5
41	MP-3	Z	.016	.5
42	MP-4	Z	.017	.5
43	MP-3	Z	.009	2
44	MP-4	Z	.009	2
45	MP-5	Z	.011	.75
46	MP-5	Z	.008	3.5
47	MP-6	Z	.016	.5
48	MP-6	Z	.006	2.5
49	MP-7	Z	.016	.5
50	MP-8	Z	.017	.5
51	MP-7	Z	.009	2
52	MP-8	Z	.009	2
53	MP-9	Z	.015	.75
54	MP-9	Z	.014	3.5
55	MP-10	Z	.032	.5
56	MP-10	Z	.01	2.5
57	MP-11	Z	.032	.5
58	MP-12	Z	.036	.5
59	MP-11	Z	.011	2



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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
60	MP-12	Z	.008	2
61	MP-1	Z	.011	4.75
62	MP-2	Z	.016	6.5
63	MP-3	Z	.016	6.5
64	MP-4	Z	.017	6.5
65	MP-5	Z	.011	4.75
66	MP-6	Z	.016	6.5
67	MP-7	Z	.016	6.5
68	MP-8	Z	.017	6.5
69	MP-9	Z	.015	4.75
70	MP-10	Z	.032	6.5
71	MP-11	Z	.032	6.5
72	MP-12	Z	.036	6.5

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-1	Z	.011	.75
2	MP-1	Z	.007	3.5
3	MP-2	Z	.016	.5
4	MP-2	Z	.006	2.5
5	MP-3	Z	.016	.5
6	MP-4	Z	.014	.5
7	MP-3	Z	.01	2
8	MP-4	Z	.01	2
9	MP-5	Z	.011	.75
10	MP-5	Z	.007	3.5
11	MP-6	Z	.016	.5
12	MP-6	Z	.006	2.5
13	MP-7	Z	.016	.5
14	MP-8	Z	.014	.5
15	MP-7	Z	.01	2
16	MP-8	Z	.01	2
17	MP-9	Z	.011	.75
18	MP-9	Z	.007	3.5
19	MP-10	Z	.021	.5
20	MP-10	Z	.006	2.5
21	MP-11	Z	.021	.5
22	MP-12	Z	.017	.5
23	MP-11	Z	.01	2
24	MP-12	Z	.01	2
25	MP-1	Z	.011	4.75
26	MP-2	Z	.016	6.5
27	MP-3	Z	.016	6.5
28	MP-4	Z	.014	6.5
29	MP-5	Z	.011	4.75
30	MP-6	Z	.016	6.5
31	MP-7	Z	.016	6.5
32	MP-8	Z	.014	6.5
33	MP-9	Z	.011	4.75
34	MP-10	Z	.021	6.5
35	MP-11	Z	.021	6.5
36	MP-12	Z	.017	6.5

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-1	X	-.006	.75



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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
2	MP-1	X	-.005	3.5
3	MP-2	X	-.009	.5
4	MP-2	X	-.004	2.5
5	MP-3	X	-.009	.5
6	MP-4	X	-.01	.5
7	MP-3	X	-.005	2
8	MP-4	X	-.005	2
9	MP-5	X	-.009	.75
10	MP-5	X	-.008	3.5
11	MP-6	X	-.014	.5
12	MP-6	X	-.006	2.5
13	MP-7	X	-.014	.5
14	MP-8	X	-.018	.5
15	MP-7	X	-.007	2
16	MP-8	X	-.005	2
17	MP-9	X	-.006	.75
18	MP-9	X	-.005	3.5
19	MP-10	X	-.012	.5
20	MP-10	X	-.004	2.5
21	MP-11	X	-.012	.5
22	MP-12	X	-.012	.5
23	MP-11	X	-.005	2
24	MP-12	X	-.005	2
25	MP-1	X	-.006	4.75
26	MP-2	X	-.009	6.5
27	MP-3	X	-.009	6.5
28	MP-4	X	-.01	6.5
29	MP-5	X	-.009	4.75
30	MP-6	X	-.014	6.5
31	MP-7	X	-.014	6.5
32	MP-8	X	-.018	6.5
33	MP-9	X	-.006	4.75
34	MP-10	X	-.012	6.5
35	MP-11	X	-.012	6.5
36	MP-12	X	-.012	6.5
37	MP-1	Z	.011	.75
38	MP-1	Z	.008	3.5
39	MP-2	Z	.016	.5
40	MP-2	Z	.006	2.5
41	MP-3	Z	.016	.5
42	MP-4	Z	.017	.5
43	MP-3	Z	.009	2
44	MP-4	Z	.009	2
45	MP-5	Z	.015	.75
46	MP-5	Z	.014	3.5
47	MP-6	Z	.024	.5
48	MP-6	Z	.01	2.5
49	MP-7	Z	.024	.5
50	MP-8	Z	.031	.5
51	MP-7	Z	.011	2
52	MP-8	Z	.008	2
53	MP-9	Z	.011	.75
54	MP-9	Z	.008	3.5
55	MP-10	Z	.021	.5
56	MP-10	Z	.006	2.5
57	MP-11	Z	.021	.5
58	MP-12	Z	.02	.5



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
59	MP-11	Z	.009	2
60	MP-12	Z	.009	2
61	MP-1	Z	.011	4.75
62	MP-2	Z	.016	6.5
63	MP-3	Z	.016	6.5
64	MP-4	Z	.017	6.5
65	MP-5	Z	.015	4.75
66	MP-6	Z	.024	6.5
67	MP-7	Z	.024	6.5
68	MP-8	Z	.031	6.5
69	MP-9	Z	.011	4.75
70	MP-10	Z	.021	6.5
71	MP-11	Z	.021	6.5
72	MP-12	Z	.02	6.5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.01	.75
2	MP-1	X	-.008	3.5
3	MP-2	X	-.015	.5
4	MP-2	X	-.006	2.5
5	MP-3	X	-.015	.5
6	MP-4	X	-.018	.5
7	MP-3	X	-.008	2
8	MP-4	X	-.007	2
9	MP-5	X	-.012	.75
10	MP-5	X	-.011	3.5
11	MP-6	X	-.019	.5
12	MP-6	X	-.008	2.5
13	MP-7	X	-.019	.5
14	MP-8	X	-.024	.5
15	MP-7	X	-.009	2
16	MP-8	X	-.007	2
17	MP-9	X	-.008	.75
18	MP-9	X	-.005	3.5
19	MP-10	X	-.015	.5
20	MP-10	X	-.004	2.5
21	MP-11	X	-.015	.5
22	MP-12	X	-.013	.5
23	MP-11	X	-.007	2
24	MP-12	X	-.008	2
25	MP-1	X	-.01	4.75
26	MP-2	X	-.015	6.5
27	MP-3	X	-.015	6.5
28	MP-4	X	-.018	6.5
29	MP-5	X	-.012	4.75
30	MP-6	X	-.019	6.5
31	MP-7	X	-.019	6.5
32	MP-8	X	-.024	6.5
33	MP-9	X	-.008	4.75
34	MP-10	X	-.015	6.5
35	MP-11	X	-.015	6.5
36	MP-12	X	-.013	6.5
37	MP-1	Z	.01	.75
38	MP-1	Z	.008	3.5
39	MP-2	Z	.015	.5



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
40	MP-2	Z	.006	2.5
41	MP-3	Z	.015	.5
42	MP-4	Z	.018	.5
43	MP-3	Z	.008	2
44	MP-4	Z	.007	2
45	MP-5	Z	.012	.75
46	MP-5	Z	.011	3.5
47	MP-6	Z	.019	.5
48	MP-6	Z	.008	2.5
49	MP-7	Z	.019	.5
50	MP-8	Z	.024	.5
51	MP-7	Z	.009	2
52	MP-8	Z	.007	2
53	MP-9	Z	.008	.75
54	MP-9	Z	.005	3.5
55	MP-10	Z	.015	.5
56	MP-10	Z	.004	2.5
57	MP-11	Z	.015	.5
58	MP-12	Z	.013	.5
59	MP-11	Z	.007	2
60	MP-12	Z	.008	2
61	MP-1	Z	.01	4.75
62	MP-2	Z	.015	6.5
63	MP-3	Z	.015	6.5
64	MP-4	Z	.018	6.5
65	MP-5	Z	.012	4.75
66	MP-6	Z	.019	6.5
67	MP-7	Z	.019	6.5
68	MP-8	Z	.024	6.5
69	MP-9	Z	.008	4.75
70	MP-10	Z	.015	6.5
71	MP-11	Z	.015	6.5
72	MP-12	Z	.013	6.5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.013	.75
2	MP-1	X	-.012	3.5
3	MP-2	X	-.021	.5
4	MP-2	X	-.009	2.5
5	MP-3	X	-.021	.5
6	MP-4	X	-.026	.5
7	MP-3	X	-.011	2
8	MP-4	X	-.009	2
9	MP-5	X	-.013	.75
10	MP-5	X	-.012	3.5
11	MP-6	X	-.021	.5
12	MP-6	X	-.009	2.5
13	MP-7	X	-.021	.5
14	MP-8	X	-.026	.5
15	MP-7	X	-.011	2
16	MP-8	X	-.009	2
17	MP-9	X	-.009	.75
18	MP-9	X	-.006	3.5
19	MP-10	X	-.018	.5
20	MP-10	X	-.005	2.5



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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
21	MP-11	X	-0.18	.5
22	MP-12	X	-0.15	.5
23	MP-11	X	-0.009	2
24	MP-12	X	-.01	2
25	MP-1	X	-.013	4.75
26	MP-2	X	-.021	6.5
27	MP-3	X	-.021	6.5
28	MP-4	X	-.026	6.5
29	MP-5	X	-.013	4.75
30	MP-6	X	-.021	6.5
31	MP-7	X	-.021	6.5
32	MP-8	X	-.026	6.5
33	MP-9	X	-.009	4.75
34	MP-10	X	-.018	6.5
35	MP-11	X	-.018	6.5
36	MP-12	X	-.015	6.5
37	MP-1	Z	.008	.75
38	MP-1	Z	.007	3.5
39	MP-2	Z	.012	.5
40	MP-2	Z	.005	2.5
41	MP-3	Z	.012	.5
42	MP-4	Z	.015	.5
43	MP-3	Z	.006	2
44	MP-4	Z	.005	2
45	MP-5	Z	.008	.75
46	MP-5	Z	.007	3.5
47	MP-6	Z	.012	.5
48	MP-6	Z	.005	2.5
49	MP-7	Z	.012	.5
50	MP-8	Z	.015	.5
51	MP-7	Z	.006	2
52	MP-8	Z	.005	2
53	MP-9	Z	.005	.75
54	MP-9	Z	.004	3.5
55	MP-10	Z	.01	.5
56	MP-10	Z	.003	2.5
57	MP-11	Z	.01	.5
58	MP-12	Z	.008	.5
59	MP-11	Z	.005	2
60	MP-12	Z	.006	2
61	MP-1	Z	.008	4.75
62	MP-2	Z	.012	6.5
63	MP-3	Z	.012	6.5
64	MP-4	Z	.015	6.5
65	MP-5	Z	.008	4.75
66	MP-6	Z	.012	6.5
67	MP-7	Z	.012	6.5
68	MP-8	Z	.015	6.5
69	MP-9	Z	.005	4.75
70	MP-10	Z	.01	6.5
71	MP-11	Z	.01	6.5
72	MP-12	Z	.008	6.5



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

Member Label	Direction	Start Magnitude[k/ft,....]	End Magnitude[k/ft,F....]	Start Location[ft,%]	End Location[ft,%]	
1	CP-1	X	-.01	-.01	0	%100
2	CP-2	X	-.021	-.021	0	%100
3	CP-3	X	-.01	-.01	0	%100
4	CPT-1	X	-.007	-.007	0	%100
5	CPT-2	X	-.007	-.007	0	%100
6	CPT-3	X	-.007	-.007	0	%100
7	CPT-4	X	-.007	-.007	0	%100
8	CPT-5	X	-.003	-.003	0	%100
9	CPT-6	X	-.003	-.003	0	%100
10	CPT-7	X	-.003	-.003	0	%100
11	CPT-8	X	-.003	-.003	0	%100
12	CPT-9	X	-.003	-.003	0	%100
13	CPT-10	X	-.003	-.003	0	%100
14	CPT-11	X	-.003	-.003	0	%100
15	CPT-12	X	-.003	-.003	0	%100
16	FF-TH	X	-.01	-.01	0	%100
17	GSI-1A	X	-.007	-.007	0	%100
18	GSI-1B	X	-.007	-.007	0	%100
19	GSI-2A	X	-.017	-.017	0	%100
20	GSI-2B	X	-.017	-.017	0	%100
21	GSI-3A	X	-.007	-.007	0	%100
22	GSI-3B	X	-.007	-.007	0	%100
23	GSIP-1A	X	-.011	-.011	0	%100
24	GSIP-1B	X	-.005	-.005	0	%100
25	GSIP-2A	X	-.005	-.005	0	%100
26	GSIP-2B	X	-.005	-.005	0	%100
27	GSIP-3A	X	-.005	-.005	0	%100
28	GSIP-3B	X	-.011	-.011	0	%100
29	MP-1	X	-.008	-.008	0	%100
30	MP-1B	X	-.008	-.008	0	%100
31	MP-2	X	-.008	-.008	0	%100
32	MP-3	X	-.008	-.008	0	%100
33	MP-4	X	-.008	-.008	0	%100
34	MP-5	X	-.008	-.008	0	%100
35	MP-5B	X	-.008	-.008	0	%100
36	MP-6	X	-.008	-.008	0	%100
37	MP-7	X	-.008	-.008	0	%100
38	MP-8	X	-.008	-.008	0	%100
39	MP-9	X	-.008	-.008	0	%100
40	MP-9B	X	-.008	-.008	0	%100
41	MP-10	X	-.008	-.008	0	%100
42	MP-11	X	-.008	-.008	0	%100
43	MP-12	X	-.008	-.008	0	%100
44	SA-1	X	-.016	-.016	0	%100
45	SA-2	X	0	0	0	%100
46	SA-3	X	-.016	-.016	0	%100
47	SF1-TH	X	-.005	-.005	0	%100
48	SF2-TH	X	-.005	-.005	0	%100
49	TR-1	X	0	0	0	%100
50	TR-2	X	0	0	0	%100
51	TR-3	X	0	0	0	%100
52	TR-4	X	0	0	0	%100
53	TR-5	X	-.000969	-.000969	0	%100
54	TR-6	X	-.000969	-.000969	0	%100
55	TR-7	X	-.000969	-.000969	0	%100
56	TR-8	X	-.000969	-.000969	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.%]
57	TR-9	X	-0.00969	0	%100
58	TR-10	X	-0.00969	0	%100
59	TR-11	X	-0.00969	0	%100
60	TR-12	X	-0.00969	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	-0.16	0	%100
2	CP-2	X	-0.16	0	%100
3	CP-3	X	0	0	%100
4	CPT-1	X	-0.005	0	%100
5	CPT-2	X	-0.005	0	%100
6	CPT-3	X	-0.005	0	%100
7	CPT-4	X	-0.005	0	%100
8	CPT-5	X	-0.005	0	%100
9	CPT-6	X	-0.005	0	%100
10	CPT-7	X	-0.005	0	%100
11	CPT-8	X	-0.005	0	%100
12	CPT-9	X	0	0	%100
13	CPT-10	X	0	0	%100
14	CPT-11	X	0	0	%100
15	CPT-12	X	0	0	%100
16	FF-TH	X	-0.008	0	%100
17	GSI-1A	X	-0.11	0	%100
18	GSI-1B	X	-0.11	0	%100
19	GSI-2A	X	-0.12	0	%100
20	GSI-2B	X	-0.12	0	%100
21	GSI-3A	X	0	0	%100
22	GSI-3B	X	0	0	%100
23	GSIP-1A	X	-0.009	0	%100
24	GSIP-1B	X	0	0	%100
25	GSIP-2A	X	0	0	%100
26	GSIP-2B	X	-0.007	0	%100
27	GSIP-3A	X	-0.007	0	%100
28	GSIP-3B	X	-0.009	0	%100
29	MP-1	X	-0.007	0	%100
30	MP-1B	X	-0.007	0	%100
31	MP-2	X	-0.007	0	%100
32	MP-3	X	-0.007	0	%100
33	MP-4	X	-0.007	0	%100
34	MP-5	X	-0.007	0	%100
35	MP-5B	X	-0.007	0	%100
36	MP-6	X	-0.007	0	%100
37	MP-7	X	-0.007	0	%100
38	MP-8	X	-0.007	0	%100
39	MP-9	X	-0.007	0	%100
40	MP-9B	X	-0.007	0	%100
41	MP-10	X	-0.007	0	%100
42	MP-11	X	-0.007	0	%100
43	MP-12	X	-0.007	0	%100
44	SA-1	X	-0.008	0	%100
45	SA-2	X	-0.006	0	%100
46	SA-3	X	-0.16	0	%100
47	SF1-TH	X	0	0	%100
48	SF2-TH	X	-0.008	0	%100
49	TR-1	X	-0.00037	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.%]
50	TR-2	X	-0.00037	0	%100
51	TR-3	X	-0.00037	0	%100
52	TR-4	X	-0.00037	0	%100
53	TR-5	X	-0.00484	0	%100
54	TR-6	X	-0.00484	0	%100
55	TR-7	X	-0.00484	0	%100
56	TR-8	X	-0.00484	0	%100
57	TR-9	X	-0.00969	0	%100
58	TR-10	X	-0.00969	0	%100
59	TR-11	X	-0.00969	0	%100
60	TR-12	X	-0.00969	0	%100
61	CP-1	Z	-0.009	0	%100
62	CP-2	Z	-0.009	0	%100
63	CP-3	Z	0	0	%100
64	CPT-1	Z	-0.003	0	%100
65	CPT-2	Z	-0.003	0	%100
66	CPT-3	Z	-0.003	0	%100
67	CPT-4	Z	-0.003	0	%100
68	CPT-5	Z	-0.003	0	%100
69	CPT-6	Z	-0.003	0	%100
70	CPT-7	Z	-0.003	0	%100
71	CPT-8	Z	-0.003	0	%100
72	CPT-9	Z	0	0	%100
73	CPT-10	Z	0	0	%100
74	CPT-11	Z	0	0	%100
75	CPT-12	Z	0	0	%100
76	FF-TH	Z	-0.005	0	%100
77	GSI-1A	Z	-0.007	0	%100
78	GSI-1B	Z	-0.007	0	%100
79	GSI-2A	Z	-0.007	0	%100
80	GSI-2B	Z	-0.007	0	%100
81	GSI-3A	Z	0	0	%100
82	GSI-3B	Z	0	0	%100
83	GSIP-1A	Z	-0.005	0	%100
84	GSIP-1B	Z	0	0	%100
85	GSIP-2A	Z	0	0	%100
86	GSIP-2B	Z	-0.005	0	%100
87	GSIP-3A	Z	-0.005	0	%100
88	GSIP-3B	Z	-0.005	0	%100
89	MP-1	Z	-0.004	0	%100
90	MP-1B	Z	-0.004	0	%100
91	MP-2	Z	-0.004	0	%100
92	MP-3	Z	-0.004	0	%100
93	MP-4	Z	-0.004	0	%100
94	MP-5	Z	-0.004	0	%100
95	MP-5B	Z	-0.004	0	%100
96	MP-6	Z	-0.004	0	%100
97	MP-7	Z	-0.004	0	%100
98	MP-8	Z	-0.004	0	%100
99	MP-9	Z	-0.004	0	%100
100	MP-9B	Z	-0.004	0	%100
101	MP-10	Z	-0.004	0	%100
102	MP-11	Z	-0.004	0	%100
103	MP-12	Z	-0.004	0	%100
104	SA-1	Z	-0.004	0	%100
105	SA-2	Z	-0.005	0	%100
106	SA-3	Z	-0.008	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

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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.%]	
107	SF1-TH	Z	0	0	%100	
108	SF2-TH	Z	-.005	-.005	0	%100
109	TR-1	Z	-.000293	-.000293	0	%100
110	TR-2	Z	-.000293	-.000293	0	%100
111	TR-3	Z	-.000293	-.000293	0	%100
112	TR-4	Z	-.000293	-.000293	0	%100
113	TR-5	Z	-.000245	-.000245	0	%100
114	TR-6	Z	-.000245	-.000245	0	%100
115	TR-7	Z	-.000245	-.000245	0	%100
116	TR-8	Z	-.000245	-.000245	0	%100
117	TR-9	Z	-.000489	-.000489	0	%100
118	TR-10	Z	-.000489	-.000489	0	%100
119	TR-11	Z	-.000489	-.000489	0	%100
120	TR-12	Z	-.000489	-.000489	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	-.014	-.014	0	%100
2	CP-2	X	-.01	-.01	0	%100
3	CP-3	X	-.004	-.004	0	%100
4	CPT-1	X	-.004	-.004	0	%100
5	CPT-2	X	-.004	-.004	0	%100
6	CPT-3	X	-.004	-.004	0	%100
7	CPT-4	X	-.004	-.004	0	%100
8	CPT-5	X	-.005	-.005	0	%100
9	CPT-6	X	-.005	-.005	0	%100
10	CPT-7	X	-.005	-.005	0	%100
11	CPT-8	X	-.005	-.005	0	%100
12	CPT-9	X	-.001	-.001	0	%100
13	CPT-10	X	-.001	-.001	0	%100
14	CPT-11	X	-.001	-.001	0	%100
15	CPT-12	X	-.001	-.001	0	%100
16	FF-TH	X	-.005	-.005	0	%100
17	GSI-1A	X	-.01	-.01	0	%100
18	GSI-1B	X	-.01	-.01	0	%100
19	GSI-2A	X	-.008	-.008	0	%100
20	GSI-2B	X	-.008	-.008	0	%100
21	GSI-3A	X	-.003	-.003	0	%100
22	GSI-3B	X	-.003	-.003	0	%100
23	GSIP-1A	X	-.006	-.006	0	%100
24	GSIP-1B	X	-.002	-.002	0	%100
25	GSIP-2A	X	-.002	-.002	0	%100
26	GSIP-2B	X	-.006	-.006	0	%100
27	GSIP-3A	X	-.006	-.006	0	%100
28	GSIP-3B	X	-.006	-.006	0	%100
29	MP-1	X	-.006	-.006	0	%100
30	MP-1B	X	-.006	-.006	0	%100
31	MP-2	X	-.006	-.006	0	%100
32	MP-3	X	-.006	-.006	0	%100
33	MP-4	X	-.006	-.006	0	%100
34	MP-5	X	-.006	-.006	0	%100
35	MP-5B	X	-.006	-.006	0	%100
36	MP-6	X	-.006	-.006	0	%100
37	MP-7	X	-.006	-.006	0	%100
38	MP-8	X	-.006	-.006	0	%100
39	MP-9	X	-.006	-.006	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

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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.%]	
40	MP-9B	X	-.006	-.006	0	%100
41	MP-10	X	-.006	-.006	0	%100
42	MP-11	X	-.006	-.006	0	%100
43	MP-12	X	-.006	-.006	0	%100
44	SA-1	X	-.003	-.003	0	%100
45	SA-2	X	-.007	-.007	0	%100
46	SA-3	X	-.013	-.013	0	%100
47	SF1-TH	X	-.002	-.002	0	%100
48	SF2-TH	X	-.007	-.007	0	%100
49	TR-1	X	-.000427	-.000427	0	%100
50	TR-2	X	-.000427	-.000427	0	%100
51	TR-3	X	-.000427	-.000427	0	%100
52	TR-4	X	-.000427	-.000427	0	%100
53	TR-5	X	-.000205	-.000205	0	%100
54	TR-6	X	-.000205	-.000205	0	%100
55	TR-7	X	-.000205	-.000205	0	%100
56	TR-8	X	-.000205	-.000205	0	%100
57	TR-9	X	-.000764	-.000764	0	%100
58	TR-10	X	-.000764	-.000764	0	%100
59	TR-11	X	-.000764	-.000764	0	%100
60	TR-12	X	-.000764	-.000764	0	%100
61	CP-1	Z	-.014	-.014	0	%100
62	CP-2	Z	-.01	-.01	0	%100
63	CP-3	Z	-.004	-.004	0	%100
64	CPT-1	Z	-.004	-.004	0	%100
65	CPT-2	Z	-.004	-.004	0	%100
66	CPT-3	Z	-.004	-.004	0	%100
67	CPT-4	Z	-.004	-.004	0	%100
68	CPT-5	Z	-.005	-.005	0	%100
69	CPT-6	Z	-.005	-.005	0	%100
70	CPT-7	Z	-.005	-.005	0	%100
71	CPT-8	Z	-.005	-.005	0	%100
72	CPT-9	Z	-.001	-.001	0	%100
73	CPT-10	Z	-.001	-.001	0	%100
74	CPT-11	Z	-.001	-.001	0	%100
75	CPT-12	Z	-.001	-.001	0	%100
76	FF-TH	Z	-.005	-.005	0	%100
77	GSI-1A	Z	-.011	-.011	0	%100
78	GSI-1B	Z	-.011	-.011	0	%100
79	GSI-2A	Z	-.008	-.008	0	%100
80	GSI-2B	Z	-.008	-.008	0	%100
81	GSI-3A	Z	-.003	-.003	0	%100
82	GSI-3B	Z	-.003	-.003	0	%100
83	GSIP-1A	Z	-.006	-.006	0	%100
84	GSIP-1B	Z	-.002	-.002	0	%100
85	GSIP-2A	Z	-.002	-.002	0	%100
86	GSIP-2B	Z	-.007	-.007	0	%100
87	GSIP-3A	Z	-.007	-.007	0	%100
88	GSIP-3B	Z	-.006	-.006	0	%100
89	MP-1	Z	-.006	-.006	0	%100
90	MP-1B	Z	-.006	-.006	0	%100
91	MP-2	Z	-.006	-.006	0	%100
92	MP-3	Z	-.006	-.006	0	%100
93	MP-4	Z	-.006	-.006	0	%100
94	MP-5	Z	-.006	-.006	0	%100
95	MP-5B	Z	-.006	-.006	0	%100
96	MP-6	Z	-.006	-.006	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

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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.%]	
97	MP-7	Z	-0.06	-0.06	0	%100
98	MP-8	Z	-0.06	-0.06	0	%100
99	MP-9	Z	-0.06	-0.06	0	%100
100	MP-9B	Z	-0.06	-0.06	0	%100
101	MP-10	Z	-0.06	-0.06	0	%100
102	MP-11	Z	-0.06	-0.06	0	%100
103	MP-12	Z	-0.06	-0.06	0	%100
104	SA-1	Z	-0.03	-0.03	0	%100
105	SA-2	Z	-0.1	-0.1	0	%100
106	SA-3	Z	-0.11	-0.11	0	%100
107	SF1-TH	Z	-0.02	-0.02	0	%100
108	SF2-TH	Z	-0.07	-0.07	0	%100
109	TR-1	Z	-0.000585	-0.000585	0	%100
110	TR-2	Z	-0.000585	-0.000585	0	%100
111	TR-3	Z	-0.000585	-0.000585	0	%100
112	TR-4	Z	-0.000585	-0.000585	0	%100
113	TR-5	Z	-0.000179	-0.000179	0	%100
114	TR-6	Z	-0.000179	-0.000179	0	%100
115	TR-7	Z	-0.000179	-0.000179	0	%100
116	TR-8	Z	-0.000179	-0.000179	0	%100
117	TR-9	Z	-0.000668	-0.000668	0	%100
118	TR-10	Z	-0.000668	-0.000668	0	%100
119	TR-11	Z	-0.000668	-0.000668	0	%100
120	TR-12	Z	-0.000668	-0.000668	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	-0.1	-0.1	0	%100
2	CP-2	X	-0.05	-0.05	0	%100
3	CP-3	X	-0.05	-0.05	0	%100
4	CPT-1	X	-0.02	-0.02	0	%100
5	CPT-2	X	-0.02	-0.02	0	%100
6	CPT-3	X	-0.02	-0.02	0	%100
7	CPT-4	X	-0.02	-0.02	0	%100
8	CPT-5	X	-0.03	-0.03	0	%100
9	CPT-6	X	-0.03	-0.03	0	%100
10	CPT-7	X	-0.03	-0.03	0	%100
11	CPT-8	X	-0.03	-0.03	0	%100
12	CPT-9	X	-0.02	-0.02	0	%100
13	CPT-10	X	-0.02	-0.02	0	%100
14	CPT-11	X	-0.02	-0.02	0	%100
15	CPT-12	X	-0.02	-0.02	0	%100
16	FF-TH	X	-0.03	-0.03	0	%100
17	GSI-1A	X	-0.07	-0.07	0	%100
18	GSI-1B	X	-0.07	-0.07	0	%100
19	GSI-2A	X	-0.04	-0.04	0	%100
20	GSI-2B	X	-0.04	-0.04	0	%100
21	GSI-3A	X	-0.04	-0.04	0	%100
22	GSI-3B	X	-0.04	-0.04	0	%100
23	GSIP-1A	X	-0.03	-0.03	0	%100
24	GSIP-1B	X	-0.02	-0.02	0	%100
25	GSIP-2A	X	-0.02	-0.02	0	%100
26	GSIP-2B	X	-0.05	-0.05	0	%100
27	GSIP-3A	X	-0.05	-0.05	0	%100
28	GSIP-3B	X	-0.03	-0.03	0	%100
29	MP-1	X	-0.04	-0.04	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

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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.%]	
30	MP-1B	X	-0.04	-0.04	0	%100
31	MP-2	X	-0.04	-0.04	0	%100
32	MP-3	X	-0.04	-0.04	0	%100
33	MP-4	X	-0.04	-0.04	0	%100
34	MP-5	X	-0.04	-0.04	0	%100
35	MP-5B	X	-0.04	-0.04	0	%100
36	MP-6	X	-0.04	-0.04	0	%100
37	MP-7	X	-0.04	-0.04	0	%100
38	MP-8	X	-0.04	-0.04	0	%100
39	MP-9	X	-0.04	-0.04	0	%100
40	MP-9B	X	-0.04	-0.04	0	%100
41	MP-10	X	-0.04	-0.04	0	%100
42	MP-11	X	-0.04	-0.04	0	%100
43	MP-12	X	-0.04	-0.04	0	%100
44	SA-1	X	0	0	0	%100
45	SA-2	X	-0.06	-0.06	0	%100
46	SA-3	X	-0.08	-0.08	0	%100
47	SF1-TH	X	-0.03	-0.03	0	%100
48	SF2-TH	X	-0.05	-0.05	0	%100
49	TR-1	X	-0.00037	-0.00037	0	%100
50	TR-2	X	-0.00037	-0.00037	0	%100
51	TR-3	X	-0.00037	-0.00037	0	%100
52	TR-4	X	-0.00037	-0.00037	0	%100
53	TR-5	X	0	0	0	%100
54	TR-6	X	0	0	0	%100
55	TR-7	X	0	0	0	%100
56	TR-8	X	0	0	0	%100
57	TR-9	X	-0.00484	-0.00484	0	%100
58	TR-10	X	-0.00484	-0.00484	0	%100
59	TR-11	X	-0.00484	-0.00484	0	%100
60	TR-12	X	-0.00484	-0.00484	0	%100
61	CP-1	Z	-0.18	-0.18	0	%100
62	CP-2	Z	-0.09	-0.09	0	%100
63	CP-3	Z	-0.09	-0.09	0	%100
64	CPT-1	Z	-0.03	-0.03	0	%100
65	CPT-2	Z	-0.03	-0.03	0	%100
66	CPT-3	Z	-0.03	-0.03	0	%100
67	CPT-4	Z	-0.03	-0.03	0	%100
68	CPT-5	Z	-0.06	-0.06	0	%100
69	CPT-6	Z	-0.06	-0.06	0	%100
70	CPT-7	Z	-0.06	-0.06	0	%100
71	CPT-8	Z	-0.06	-0.06	0	%100
72	CPT-9	Z	-0.03	-0.03	0	%100
73	CPT-10	Z	-0.03	-0.03	0	%100
74	CPT-11	Z	-0.03	-0.03	0	%100
75	CPT-12	Z	-0.03	-0.03	0	%100
76	FF-TH	Z	-0.05	-0.05	0	%100
77	GSI-1A	Z	-0.14	-0.14	0	%100
78	GSI-1B	Z	-0.14	-0.14	0	%100
79	GSI-2A	Z	-0.07	-0.07	0	%100
80	GSI-2B	Z	-0.07	-0.07	0	%100
81	GSI-3A	Z	-0.07	-0.07	0	%100
82	GSI-3B	Z	-0.07	-0.07	0	%100
83	GSIP-1A	Z	-0.05	-0.05	0	%100
84	GSIP-1B	Z	-0.05	-0.05	0	%100
85	GSIP-2A	Z	-0.05	-0.05	0	%100
86	GSIP-2B	Z	-0.09	-0.09	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

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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.%]	
87	GSIP-3A	Z	-0.009	-0.009	0	%100
88	GSIP-3B	Z	-0.005	-0.005	0	%100
89	MP-1	Z	-0.007	-0.007	0	%100
90	MP-1B	Z	-0.007	-0.007	0	%100
91	MP-2	Z	-0.007	-0.007	0	%100
92	MP-3	Z	-0.007	-0.007	0	%100
93	MP-4	Z	-0.007	-0.007	0	%100
94	MP-5	Z	-0.007	-0.007	0	%100
95	MP-5B	Z	-0.007	-0.007	0	%100
96	MP-6	Z	-0.007	-0.007	0	%100
97	MP-7	Z	-0.007	-0.007	0	%100
98	MP-8	Z	-0.007	-0.007	0	%100
99	MP-9	Z	-0.007	-0.007	0	%100
100	MP-9B	Z	-0.007	-0.007	0	%100
101	MP-10	Z	-0.007	-0.007	0	%100
102	MP-11	Z	-0.007	-0.007	0	%100
103	MP-12	Z	-0.007	-0.007	0	%100
104	SA-1	Z	0	0	0	%100
105	SA-2	Z	-0.015	-0.015	0	%100
106	SA-3	Z	-0.012	-0.012	0	%100
107	SF1-TH	Z	-0.005	-0.005	0	%100
108	SF2-TH	Z	-0.009	-0.009	0	%100
109	TR-1	Z	-0.000878	-0.000878	0	%100
110	TR-2	Z	-0.000878	-0.000878	0	%100
111	TR-3	Z	-0.000878	-0.000878	0	%100
112	TR-4	Z	-0.000878	-0.000878	0	%100
113	TR-5	Z	0	0	0	%100
114	TR-6	Z	0	0	0	%100
115	TR-7	Z	0	0	0	%100
116	TR-8	Z	0	0	0	%100
117	TR-9	Z	-0.000734	-0.000734	0	%100
118	TR-10	Z	-0.000734	-0.000734	0	%100
119	TR-11	Z	-0.000734	-0.000734	0	%100
120	TR-12	Z	-0.000734	-0.000734	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	Z	-0.018	-0.018	0	%100
2	CP-2	Z	0	0	0	%100
3	CP-3	Z	-0.018	-0.018	0	%100
4	CPT-1	Z	0	0	0	%100
5	CPT-2	Z	0	0	0	%100
6	CPT-3	Z	0	0	0	%100
7	CPT-4	Z	0	0	0	%100
8	CPT-5	Z	-0.006	-0.006	0	%100
9	CPT-6	Z	-0.006	-0.006	0	%100
10	CPT-7	Z	-0.006	-0.006	0	%100
11	CPT-8	Z	-0.006	-0.006	0	%100
12	CPT-9	Z	-0.006	-0.006	0	%100
13	CPT-10	Z	-0.006	-0.006	0	%100
14	CPT-11	Z	-0.006	-0.006	0	%100
15	CPT-12	Z	-0.006	-0.006	0	%100
16	FF-TH	Z	0	0	0	%100
17	GSI-1A	Z	-0.014	-0.014	0	%100
18	GSI-1B	Z	-0.014	-0.014	0	%100
19	GSI-2A	Z	0	0	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

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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.%]	
20	GSI-2B	Z	0	0	0	%100
21	GSI-3A	Z	-0.014	-0.014	0	%100
22	GSI-3B	Z	-0.014	-0.014	0	%100
23	GSIP-1A	Z	0	0	0	%100
24	GSIP-1B	Z	-0.009	-0.009	0	%100
25	GSIP-2A	Z	-0.009	-0.009	0	%100
26	GSIP-2B	Z	-0.009	-0.009	0	%100
27	GSIP-3A	Z	-0.009	-0.009	0	%100
28	GSIP-3B	Z	0	0	0	%100
29	MP-1	Z	-0.008	-0.008	0	%100
30	MP-1B	Z	-0.008	-0.008	0	%100
31	MP-2	Z	-0.008	-0.008	0	%100
32	MP-3	Z	-0.008	-0.008	0	%100
33	MP-4	Z	-0.008	-0.008	0	%100
34	MP-5	Z	-0.008	-0.008	0	%100
35	MP-5B	Z	-0.008	-0.008	0	%100
36	MP-6	Z	-0.008	-0.008	0	%100
37	MP-7	Z	-0.008	-0.008	0	%100
38	MP-8	Z	-0.008	-0.008	0	%100
39	MP-9	Z	-0.008	-0.008	0	%100
40	MP-9B	Z	-0.008	-0.008	0	%100
41	MP-10	Z	-0.008	-0.008	0	%100
42	MP-11	Z	-0.008	-0.008	0	%100
43	MP-12	Z	-0.008	-0.008	0	%100
44	SA-1	Z	-0.008	-0.008	0	%100
45	SA-2	Z	-0.019	-0.019	0	%100
46	SA-3	Z	-0.008	-0.008	0	%100
47	SF1-TH	Z	-0.009	-0.009	0	%100
48	SF2-TH	Z	-0.009	-0.009	0	%100
49	TR-1	Z	-0.001	-0.001	0	%100
50	TR-2	Z	-0.001	-0.001	0	%100
51	TR-3	Z	-0.001	-0.001	0	%100
52	TR-4	Z	-0.001	-0.001	0	%100
53	TR-5	Z	-0.000489	-0.000489	0	%100
54	TR-6	Z	-0.000489	-0.000489	0	%100
55	TR-7	Z	-0.000489	-0.000489	0	%100
56	TR-8	Z	-0.000489	-0.000489	0	%100
57	TR-9	Z	-0.000489	-0.000489	0	%100
58	TR-10	Z	-0.000489	-0.000489	0	%100
59	TR-11	Z	-0.000489	-0.000489	0	%100
60	TR-12	Z	-0.000489	-0.000489	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	.005	.005	0	%100
2	CP-2	X	.005	.005	0	%100
3	CP-3	X	.01	.01	0	%100
4	CPT-1	X	.002	.002	0	%100
5	CPT-2	X	.002	.002	0	%100
6	CPT-3	X	.002	.002	0	%100
7	CPT-4	X	.002	.002	0	%100
8	CPT-5	X	.002	.002	0	%100
9	CPT-6	X	.002	.002	0	%100
10	CPT-7	X	.002	.002	0	%100
11	CPT-8	X	.002	.002	0	%100
12	CPT-9	X	.003	.003	0	%100



Company : Tower Engineering Professionals
 Designer : DC
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Member Distributed Loads (BLC 7 : 120 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
13	CPT-10	X	.003	.003	0	%100
14	CPT-11	X	.003	.003	0	%100
15	CPT-12	X	.003	.003	0	%100
16	FF-TH	X	.003	.003	0	%100
17	GSI-1A	X	.004	.004	0	%100
18	GSI-1B	X	.004	.004	0	%100
19	GSI-2A	X	.004	.004	0	%100
20	GSI-2B	X	.004	.004	0	%100
21	GSI-3A	X	.007	.007	0	%100
22	GSI-3B	X	.007	.007	0	%100
23	GSIP-1A	X	.003	.003	0	%100
24	GSIP-1B	X	.005	.005	0	%100
25	GSIP-2A	X	.005	.005	0	%100
26	GSIP-2B	X	.002	.002	0	%100
27	GSIP-3A	X	.002	.002	0	%100
28	GSIP-3B	X	.003	.003	0	%100
29	MP-1	X	.004	.004	0	%100
30	MP-1B	X	.004	.004	0	%100
31	MP-2	X	.004	.004	0	%100
32	MP-3	X	.004	.004	0	%100
33	MP-4	X	.004	.004	0	%100
34	MP-5	X	.004	.004	0	%100
35	MP-5B	X	.004	.004	0	%100
36	MP-6	X	.004	.004	0	%100
37	MP-7	X	.004	.004	0	%100
38	MP-8	X	.004	.004	0	%100
39	MP-9	X	.004	.004	0	%100
40	MP-9B	X	.004	.004	0	%100
41	MP-10	X	.004	.004	0	%100
42	MP-11	X	.004	.004	0	%100
43	MP-12	X	.004	.004	0	%100
44	SA-1	X	.008	.008	0	%100
45	SA-2	X	.006	.006	0	%100
46	SA-3	X	0	0	0	%100
47	SF1-TH	X	.005	.005	0	%100
48	SF2-TH	X	.003	.003	0	%100
49	TR-1	X	.00037	.00037	0	%100
50	TR-2	X	.00037	.00037	0	%100
51	TR-3	X	.00037	.00037	0	%100
52	TR-4	X	.00037	.00037	0	%100
53	TR-5	X	.000484	.000484	0	%100
54	TR-6	X	.000484	.000484	0	%100
55	TR-7	X	.000484	.000484	0	%100
56	TR-8	X	.000484	.000484	0	%100
57	TR-9	X	0	0	0	%100
58	TR-10	X	0	0	0	%100
59	TR-11	X	0	0	0	%100
60	TR-12	X	0	0	0	%100
61	CP-1	Z	-.009	-.009	0	%100
62	CP-2	Z	-.009	-.009	0	%100
63	CP-3	Z	-.018	-.018	0	%100
64	CPT-1	Z	-.003	-.003	0	%100
65	CPT-2	Z	-.003	-.003	0	%100
66	CPT-3	Z	-.003	-.003	0	%100
67	CPT-4	Z	-.003	-.003	0	%100
68	CPT-5	Z	-.003	-.003	0	%100
69	CPT-6	Z	-.003	-.003	0	%100



Company : Tower Engineering Professionals
 Designer : DC
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 Model Name : CCI BU No. 806367

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
70	CPT-7	Z	-.003	-.003	0	%100
71	CPT-8	Z	-.003	-.003	0	%100
72	CPT-9	Z	-.006	-.006	0	%100
73	CPT-10	Z	-.006	-.006	0	%100
74	CPT-11	Z	-.006	-.006	0	%100
75	CPT-12	Z	-.006	-.006	0	%100
76	FF-TH	Z	-.005	-.005	0	%100
77	GSI-1A	Z	-.007	-.007	0	%100
78	GSI-1B	Z	-.007	-.007	0	%100
79	GSI-2A	Z	-.007	-.007	0	%100
80	GSI-2B	Z	-.007	-.007	0	%100
81	GSI-3A	Z	-.014	-.014	0	%100
82	GSI-3B	Z	-.014	-.014	0	%100
83	GSIP-1A	Z	-.005	-.005	0	%100
84	GSIP-1B	Z	-.009	-.009	0	%100
85	GSIP-2A	Z	-.009	-.009	0	%100
86	GSIP-2B	Z	-.005	-.005	0	%100
87	GSIP-3A	Z	-.005	-.005	0	%100
88	GSIP-3B	Z	-.005	-.005	0	%100
89	MP-1	Z	-.007	-.007	0	%100
90	MP-1B	Z	-.007	-.007	0	%100
91	MP-2	Z	-.007	-.007	0	%100
92	MP-3	Z	-.007	-.007	0	%100
93	MP-4	Z	-.007	-.007	0	%100
94	MP-5	Z	-.007	-.007	0	%100
95	MP-5B	Z	-.007	-.007	0	%100
96	MP-6	Z	-.007	-.007	0	%100
97	MP-7	Z	-.007	-.007	0	%100
98	MP-8	Z	-.007	-.007	0	%100
99	MP-9	Z	-.007	-.007	0	%100
100	MP-9B	Z	-.007	-.007	0	%100
101	MP-10	Z	-.007	-.007	0	%100
102	MP-11	Z	-.007	-.007	0	%100
103	MP-12	Z	-.007	-.007	0	%100
104	SA-1	Z	-.012	-.012	0	%100
105	SA-2	Z	-.015	-.015	0	%100
106	SA-3	Z	0	0	0	%100
107	SF1-TH	Z	-.009	-.009	0	%100
108	SF2-TH	Z	-.005	-.005	0	%100
109	TR-1	Z	-.000878	-.000878	0	%100
110	TR-2	Z	-.000878	-.000878	0	%100
111	TR-3	Z	-.000878	-.000878	0	%100
112	TR-4	Z	-.000878	-.000878	0	%100
113	TR-5	Z	-.000734	-.000734	0	%100
114	TR-6	Z	-.000734	-.000734	0	%100
115	TR-7	Z	-.000734	-.000734	0	%100
116	TR-8	Z	-.000734	-.000734	0	%100
117	TR-9	Z	0	0	0	%100
118	TR-10	Z	0	0	0	%100
119	TR-11	Z	0	0	0	%100
120	TR-12	Z	0	0	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	.004	.004	0	%100
2	CP-2	X	.01	.01	0	%100



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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
3	CP-3	X	.014	.014	0	%100
4	CPT-1	X	.004	.004	0	%100
5	CPT-2	X	.004	.004	0	%100
6	CPT-3	X	.004	.004	0	%100
7	CPT-4	X	.004	.004	0	%100
8	CPT-5	X	.001	.001	0	%100
9	CPT-6	X	.001	.001	0	%100
10	CPT-7	X	.001	.001	0	%100
11	CPT-8	X	.001	.001	0	%100
12	CPT-9	X	.005	.005	0	%100
13	CPT-10	X	.005	.005	0	%100
14	CPT-11	X	.005	.005	0	%100
15	CPT-12	X	.005	.005	0	%100
16	FF-TH	X	.005	.005	0	%100
17	GSI-1A	X	.003	.003	0	%100
18	GSI-1B	X	.003	.003	0	%100
19	GSI-2A	X	.008	.008	0	%100
20	GSI-2B	X	.008	.008	0	%100
21	GSI-3A	X	.01	.01	0	%100
22	GSI-3B	X	.01	.01	0	%100
23	GSIP-1A	X	.006	.006	0	%100
24	GSIP-1B	X	.006	.006	0	%100
25	GSIP-2A	X	.006	.006	0	%100
26	GSIP-2B	X	.002	.002	0	%100
27	GSIP-3A	X	.002	.002	0	%100
28	GSIP-3B	X	.006	.006	0	%100
29	MP-1	X	.006	.006	0	%100
30	MP-1B	X	.006	.006	0	%100
31	MP-2	X	.006	.006	0	%100
32	MP-3	X	.006	.006	0	%100
33	MP-4	X	.006	.006	0	%100
34	MP-5	X	.006	.006	0	%100
35	MP-5B	X	.006	.006	0	%100
36	MP-6	X	.006	.006	0	%100
37	MP-7	X	.006	.006	0	%100
38	MP-8	X	.006	.006	0	%100
39	MP-9	X	.006	.006	0	%100
40	MP-9B	X	.006	.006	0	%100
41	MP-10	X	.006	.006	0	%100
42	MP-11	X	.006	.006	0	%100
43	MP-12	X	.006	.006	0	%100
44	SA-1	X	.013	.013	0	%100
45	SA-2	X	.007	.007	0	%100
46	SA-3	X	.003	.003	0	%100
47	SF1-TH	X	.007	.007	0	%100
48	SF2-TH	X	.002	.002	0	%100
49	TR-1	X	.000427	.000427	0	%100
50	TR-2	X	.000427	.000427	0	%100
51	TR-3	X	.000427	.000427	0	%100
52	TR-4	X	.000427	.000427	0	%100
53	TR-5	X	.000764	.000764	0	%100
54	TR-6	X	.000764	.000764	0	%100
55	TR-7	X	.000764	.000764	0	%100
56	TR-8	X	.000764	.000764	0	%100
57	TR-9	X	.000205	.000205	0	%100
58	TR-10	X	.000205	.000205	0	%100
59	TR-11	X	.000205	.000205	0	%100



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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
60	TR-12	X	.000205	.000205	0	%100
61	CP-1	Z	-.004	-.004	0	%100
62	CP-2	Z	-.01	-.01	0	%100
63	CP-3	Z	-.014	-.014	0	%100
64	CPT-1	Z	-.004	-.004	0	%100
65	CPT-2	Z	-.004	-.004	0	%100
66	CPT-3	Z	-.004	-.004	0	%100
67	CPT-4	Z	-.004	-.004	0	%100
68	CPT-5	Z	-.001	-.001	0	%100
69	CPT-6	Z	-.001	-.001	0	%100
70	CPT-7	Z	-.001	-.001	0	%100
71	CPT-8	Z	-.001	-.001	0	%100
72	CPT-9	Z	-.005	-.005	0	%100
73	CPT-10	Z	-.005	-.005	0	%100
74	CPT-11	Z	-.005	-.005	0	%100
75	CPT-12	Z	-.005	-.005	0	%100
76	FF-TH	Z	-.005	-.005	0	%100
77	GSI-1A	Z	-.003	-.003	0	%100
78	GSI-1B	Z	-.003	-.003	0	%100
79	GSI-2A	Z	-.008	-.008	0	%100
80	GSI-2B	Z	-.008	-.008	0	%100
81	GSI-3A	Z	-.011	-.011	0	%100
82	GSI-3B	Z	-.011	-.011	0	%100
83	GSIP-1A	Z	-.006	-.006	0	%100
84	GSIP-1B	Z	-.007	-.007	0	%100
85	GSIP-2A	Z	-.007	-.007	0	%100
86	GSIP-2B	Z	-.002	-.002	0	%100
87	GSIP-3A	Z	-.002	-.002	0	%100
88	GSIP-3B	Z	-.006	-.006	0	%100
89	MP-1	Z	-.006	-.006	0	%100
90	MP-1B	Z	-.006	-.006	0	%100
91	MP-2	Z	-.006	-.006	0	%100
92	MP-3	Z	-.006	-.006	0	%100
93	MP-4	Z	-.006	-.006	0	%100
94	MP-5	Z	-.006	-.006	0	%100
95	MP-5B	Z	-.006	-.006	0	%100
96	MP-6	Z	-.006	-.006	0	%100
97	MP-7	Z	-.006	-.006	0	%100
98	MP-8	Z	-.006	-.006	0	%100
99	MP-9	Z	-.006	-.006	0	%100
100	MP-9B	Z	-.006	-.006	0	%100
101	MP-10	Z	-.006	-.006	0	%100
102	MP-11	Z	-.006	-.006	0	%100
103	MP-12	Z	-.006	-.006	0	%100
104	SA-1	Z	-.011	-.011	0	%100
105	SA-2	Z	-.01	-.01	0	%100
106	SA-3	Z	-.003	-.003	0	%100
107	SF1-TH	Z	-.007	-.007	0	%100
108	SF2-TH	Z	-.002	-.002	0	%100
109	TR-1	Z	-.000585	-.000585	0	%100
110	TR-2	Z	-.000585	-.000585	0	%100
111	TR-3	Z	-.000585	-.000585	0	%100
112	TR-4	Z	-.000585	-.000585	0	%100
113	TR-5	Z	-.000668	-.000668	0	%100
114	TR-6	Z	-.000668	-.000668	0	%100
115	TR-7	Z	-.000668	-.000668	0	%100
116	TR-8	Z	-.000668	-.000668	0	%100



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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
117	TR-9	Z	-.000179	-.000179	0	%100
118	TR-10	Z	-.000179	-.000179	0	%100
119	TR-11	Z	-.000179	-.000179	0	%100
120	TR-12	Z	-.000179	-.000179	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	.016	.016	0	%100
3	CP-3	X	.016	.016	0	%100
4	CPT-1	X	.005	.005	0	%100
5	CPT-2	X	.005	.005	0	%100
6	CPT-3	X	.005	.005	0	%100
7	CPT-4	X	.005	.005	0	%100
8	CPT-5	X	0	0	0	%100
9	CPT-6	X	0	0	0	%100
10	CPT-7	X	0	0	0	%100
11	CPT-8	X	0	0	0	%100
12	CPT-9	X	.005	.005	0	%100
13	CPT-10	X	.005	.005	0	%100
14	CPT-11	X	.005	.005	0	%100
15	CPT-12	X	.005	.005	0	%100
16	FF-TH	X	.008	.008	0	%100
17	GSI-1A	X	0	0	0	%100
18	GSI-1B	X	0	0	0	%100
19	GSI-2A	X	.012	.012	0	%100
20	GSI-2B	X	.012	.012	0	%100
21	GSI-3A	X	.011	.011	0	%100
22	GSI-3B	X	.011	.011	0	%100
23	GSIP-1A	X	.009	.009	0	%100
24	GSIP-1B	X	.007	.007	0	%100
25	GSIP-2A	X	.007	.007	0	%100
26	GSIP-2B	X	0	0	0	%100
27	GSIP-3A	X	0	0	0	%100
28	GSIP-3B	X	.009	.009	0	%100
29	MP-1	X	.007	.007	0	%100
30	MP-1B	X	.007	.007	0	%100
31	MP-2	X	.007	.007	0	%100
32	MP-3	X	.007	.007	0	%100
33	MP-4	X	.007	.007	0	%100
34	MP-5	X	.007	.007	0	%100
35	MP-5B	X	.007	.007	0	%100
36	MP-6	X	.007	.007	0	%100
37	MP-7	X	.007	.007	0	%100
38	MP-8	X	.007	.007	0	%100
39	MP-9	X	.007	.007	0	%100
40	MP-9B	X	.007	.007	0	%100
41	MP-10	X	.007	.007	0	%100
42	MP-11	X	.007	.007	0	%100
43	MP-12	X	.007	.007	0	%100
44	SA-1	X	.016	.016	0	%100
45	SA-2	X	.006	.006	0	%100
46	SA-3	X	.008	.008	0	%100
47	SF1-TH	X	.008	.008	0	%100
48	SF2-TH	X	0	0	0	%100
49	TR-1	X	.00037	.00037	0	%100



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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
50	TR-2	X	.00037	.00037	0	%100
51	TR-3	X	.00037	.00037	0	%100
52	TR-4	X	.00037	.00037	0	%100
53	TR-5	X	.000969	.000969	0	%100
54	TR-6	X	.000969	.000969	0	%100
55	TR-7	X	.000969	.000969	0	%100
56	TR-8	X	.000969	.000969	0	%100
57	TR-9	X	.000484	.000484	0	%100
58	TR-10	X	.000484	.000484	0	%100
59	TR-11	X	.000484	.000484	0	%100
60	TR-12	X	.000484	.000484	0	%100
61	CP-1	Z	0	0	0	%100
62	CP-2	Z	-.009	-.009	0	%100
63	CP-3	Z	-.009	-.009	0	%100
64	CPT-1	Z	-.003	-.003	0	%100
65	CPT-2	Z	-.003	-.003	0	%100
66	CPT-3	Z	-.003	-.003	0	%100
67	CPT-4	Z	-.003	-.003	0	%100
68	CPT-5	Z	0	0	0	%100
69	CPT-6	Z	0	0	0	%100
70	CPT-7	Z	0	0	0	%100
71	CPT-8	Z	0	0	0	%100
72	CPT-9	Z	-.003	-.003	0	%100
73	CPT-10	Z	-.003	-.003	0	%100
74	CPT-11	Z	-.003	-.003	0	%100
75	CPT-12	Z	-.003	-.003	0	%100
76	FF-TH	Z	-.005	-.005	0	%100
77	GSI-1A	Z	0	0	0	%100
78	GSI-1B	Z	0	0	0	%100
79	GSI-2A	Z	-.007	-.007	0	%100
80	GSI-2B	Z	-.007	-.007	0	%100
81	GSI-3A	Z	-.007	-.007	0	%100
82	GSI-3B	Z	-.007	-.007	0	%100
83	GSIP-1A	Z	-.005	-.005	0	%100
84	GSIP-1B	Z	-.005	-.005	0	%100
85	GSIP-2A	Z	-.005	-.005	0	%100
86	GSIP-2B	Z	0	0	0	%100
87	GSIP-3A	Z	0	0	0	%100
88	GSIP-3B	Z	-.005	-.005	0	%100
89	MP-1	Z	-.004	-.004	0	%100
90	MP-1B	Z	-.004	-.004	0	%100
91	MP-2	Z	-.004	-.004	0	%100
92	MP-3	Z	-.004	-.004	0	%100
93	MP-4	Z	-.004	-.004	0	%100
94	MP-5	Z	-.004	-.004	0	%100
95	MP-5B	Z	-.004	-.004	0	%100
96	MP-6	Z	-.004	-.004	0	%100
97	MP-7	Z	-.004	-.004	0	%100
98	MP-8	Z	-.004	-.004	0	%100
99	MP-9	Z	-.004	-.004	0	%100
100	MP-9B	Z	-.004	-.004	0	%100
101	MP-10	Z	-.004	-.004	0	%100
102	MP-11	Z	-.004	-.004	0	%100
103	MP-12	Z	-.004	-.004	0	%100
104	SA-1	Z	-.008	-.008	0	%100
105	SA-2	Z	-.005	-.005	0	%100
106	SA-3	Z	-.004	-.004	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

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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.%]	
107	SF1-TH	Z	-.005	-.005	0	%100
108	SF2-TH	Z	0	0	0	%100
109	TR-1	Z	-.000293	-.000293	0	%100
110	TR-2	Z	-.000293	-.000293	0	%100
111	TR-3	Z	-.000293	-.000293	0	%100
112	TR-4	Z	-.000293	-.000293	0	%100
113	TR-5	Z	-.000489	-.000489	0	%100
114	TR-6	Z	-.000489	-.000489	0	%100
115	TR-7	Z	-.000489	-.000489	0	%100
116	TR-8	Z	-.000489	-.000489	0	%100
117	TR-9	Z	-.000245	-.000245	0	%100
118	TR-10	Z	-.000245	-.000245	0	%100
119	TR-11	Z	-.000245	-.000245	0	%100
120	TR-12	Z	-.000245	-.000245	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	.01	.01	0	%100
2	CP-2	X	.021	.021	0	%100
3	CP-3	X	.01	.01	0	%100
4	CPT-1	X	.007	.007	0	%100
5	CPT-2	X	.007	.007	0	%100
6	CPT-3	X	.007	.007	0	%100
7	CPT-4	X	.007	.007	0	%100
8	CPT-5	X	.003	.003	0	%100
9	CPT-6	X	.003	.003	0	%100
10	CPT-7	X	.003	.003	0	%100
11	CPT-8	X	.003	.003	0	%100
12	CPT-9	X	.003	.003	0	%100
13	CPT-10	X	.003	.003	0	%100
14	CPT-11	X	.003	.003	0	%100
15	CPT-12	X	.003	.003	0	%100
16	FF-TH	X	.01	.01	0	%100
17	GSI-1A	X	.007	.007	0	%100
18	GSI-1B	X	.007	.007	0	%100
19	GSI-2A	X	.017	.017	0	%100
20	GSI-2B	X	.017	.017	0	%100
21	GSI-3A	X	.007	.007	0	%100
22	GSI-3B	X	.007	.007	0	%100
23	GSIP-1A	X	.011	.011	0	%100
24	GSIP-1B	X	.005	.005	0	%100
25	GSIP-2A	X	.005	.005	0	%100
26	GSIP-2B	X	.005	.005	0	%100
27	GSIP-3A	X	.005	.005	0	%100
28	GSIP-3B	X	.011	.011	0	%100
29	MP-1	X	.008	.008	0	%100
30	MP-1B	X	.008	.008	0	%100
31	MP-2	X	.008	.008	0	%100
32	MP-3	X	.008	.008	0	%100
33	MP-4	X	.008	.008	0	%100
34	MP-5	X	.008	.008	0	%100
35	MP-5B	X	.008	.008	0	%100
36	MP-6	X	.008	.008	0	%100
37	MP-7	X	.008	.008	0	%100
38	MP-8	X	.008	.008	0	%100
39	MP-9	X	.008	.008	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

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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.%]	
40	MP-9B	X	.008	.008	0	%100
41	MP-10	X	.008	.008	0	%100
42	MP-11	X	.008	.008	0	%100
43	MP-12	X	.008	.008	0	%100
44	SA-1	X	.016	.016	0	%100
45	SA-2	X	0	0	0	%100
46	SA-3	X	.016	.016	0	%100
47	SF1-TH	X	.005	.005	0	%100
48	SF2-TH	X	.005	.005	0	%100
49	TR-1	X	0	0	0	%100
50	TR-2	X	0	0	0	%100
51	TR-3	X	0	0	0	%100
52	TR-4	X	0	0	0	%100
53	TR-5	X	.000969	.000969	0	%100
54	TR-6	X	.000969	.000969	0	%100
55	TR-7	X	.000969	.000969	0	%100
56	TR-8	X	.000969	.000969	0	%100
57	TR-9	X	.000969	.000969	0	%100
58	TR-10	X	.000969	.000969	0	%100
59	TR-11	X	.000969	.000969	0	%100
60	TR-12	X	.000969	.000969	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	.016	.016	0	%100
2	CP-2	X	.016	.016	0	%100
3	CP-3	X	0	0	0	%100
4	CPT-1	X	.005	.005	0	%100
5	CPT-2	X	.005	.005	0	%100
6	CPT-3	X	.005	.005	0	%100
7	CPT-4	X	.005	.005	0	%100
8	CPT-5	X	.005	.005	0	%100
9	CPT-6	X	.005	.005	0	%100
10	CPT-7	X	.005	.005	0	%100
11	CPT-8	X	.005	.005	0	%100
12	CPT-9	X	0	0	0	%100
13	CPT-10	X	0	0	0	%100
14	CPT-11	X	0	0	0	%100
15	CPT-12	X	0	0	0	%100
16	FF-TH	X	.008	.008	0	%100
17	GSI-1A	X	.011	.011	0	%100
18	GSI-1B	X	.011	.011	0	%100
19	GSI-2A	X	.012	.012	0	%100
20	GSI-2B	X	.012	.012	0	%100
21	GSI-3A	X	0	0	0	%100
22	GSI-3B	X	0	0	0	%100
23	GSIP-1A	X	.009	.009	0	%100
24	GSIP-1B	X	0	0	0	%100
25	GSIP-2A	X	0	0	0	%100
26	GSIP-2B	X	.007	.007	0	%100
27	GSIP-3A	X	.007	.007	0	%100
28	GSIP-3B	X	.009	.009	0	%100
29	MP-1	X	.007	.007	0	%100
30	MP-1B	X	.007	.007	0	%100
31	MP-2	X	.007	.007	0	%100
32	MP-3	X	.007	.007	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

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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.%]	
33	MP-4	X	.007	.007	0	%100
34	MP-5	X	.007	.007	0	%100
35	MP-5B	X	.007	.007	0	%100
36	MP-6	X	.007	.007	0	%100
37	MP-7	X	.007	.007	0	%100
38	MP-8	X	.007	.007	0	%100
39	MP-9	X	.007	.007	0	%100
40	MP-9B	X	.007	.007	0	%100
41	MP-10	X	.007	.007	0	%100
42	MP-11	X	.007	.007	0	%100
43	MP-12	X	.007	.007	0	%100
44	SA-1	X	.008	.008	0	%100
45	SA-2	X	.006	.006	0	%100
46	SA-3	X	.016	.016	0	%100
47	SF1-TH	X	0	0	0	%100
48	SF2-TH	X	.008	.008	0	%100
49	TR-1	X	.00037	.00037	0	%100
50	TR-2	X	.00037	.00037	0	%100
51	TR-3	X	.00037	.00037	0	%100
52	TR-4	X	.00037	.00037	0	%100
53	TR-5	X	.000484	.000484	0	%100
54	TR-6	X	.000484	.000484	0	%100
55	TR-7	X	.000484	.000484	0	%100
56	TR-8	X	.000484	.000484	0	%100
57	TR-9	X	.000969	.000969	0	%100
58	TR-10	X	.000969	.000969	0	%100
59	TR-11	X	.000969	.000969	0	%100
60	TR-12	X	.000969	.000969	0	%100
61	CP-1	Z	.009	.009	0	%100
62	CP-2	Z	.009	.009	0	%100
63	CP-3	Z	0	0	0	%100
64	CPT-1	Z	.003	.003	0	%100
65	CPT-2	Z	.003	.003	0	%100
66	CPT-3	Z	.003	.003	0	%100
67	CPT-4	Z	.003	.003	0	%100
68	CPT-5	Z	.003	.003	0	%100
69	CPT-6	Z	.003	.003	0	%100
70	CPT-7	Z	.003	.003	0	%100
71	CPT-8	Z	.003	.003	0	%100
72	CPT-9	Z	0	0	0	%100
73	CPT-10	Z	0	0	0	%100
74	CPT-11	Z	0	0	0	%100
75	CPT-12	Z	0	0	0	%100
76	FF-TH	Z	.005	.005	0	%100
77	GSI-1A	Z	.007	.007	0	%100
78	GSI-1B	Z	.007	.007	0	%100
79	GSI-2A	Z	.007	.007	0	%100
80	GSI-2B	Z	.007	.007	0	%100
81	GSI-3A	Z	0	0	0	%100
82	GSI-3B	Z	0	0	0	%100
83	GSIP-1A	Z	.005	.005	0	%100
84	GSIP-1B	Z	0	0	0	%100
85	GSIP-2A	Z	0	0	0	%100
86	GSIP-2B	Z	.005	.005	0	%100
87	GSIP-3A	Z	.005	.005	0	%100
88	GSIP-3B	Z	.005	.005	0	%100
89	MP-1	Z	.004	.004	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

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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.%]	
90	MP-1B	Z	.004	.004	0	%100
91	MP-2	Z	.004	.004	0	%100
92	MP-3	Z	.004	.004	0	%100
93	MP-4	Z	.004	.004	0	%100
94	MP-5	Z	.004	.004	0	%100
95	MP-5B	Z	.004	.004	0	%100
96	MP-6	Z	.004	.004	0	%100
97	MP-7	Z	.004	.004	0	%100
98	MP-8	Z	.004	.004	0	%100
99	MP-9	Z	.004	.004	0	%100
100	MP-9B	Z	.004	.004	0	%100
101	MP-10	Z	.004	.004	0	%100
102	MP-11	Z	.004	.004	0	%100
103	MP-12	Z	.004	.004	0	%100
104	SA-1	Z	.004	.004	0	%100
105	SA-2	Z	.005	.005	0	%100
106	SA-3	Z	.008	.008	0	%100
107	SF1-TH	Z	0	0	0	%100
108	SF2-TH	Z	.005	.005	0	%100
109	TR-1	Z	.000293	.000293	0	%100
110	TR-2	Z	.000293	.000293	0	%100
111	TR-3	Z	.000293	.000293	0	%100
112	TR-4	Z	.000293	.000293	0	%100
113	TR-5	Z	.000245	.000245	0	%100
114	TR-6	Z	.000245	.000245	0	%100
115	TR-7	Z	.000245	.000245	0	%100
116	TR-8	Z	.000245	.000245	0	%100
117	TR-9	Z	.000489	.000489	0	%100
118	TR-10	Z	.000489	.000489	0	%100
119	TR-11	Z	.000489	.000489	0	%100
120	TR-12	Z	.000489	.000489	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	.014	.014	0	%100
2	CP-2	X	.01	.01	0	%100
3	CP-3	X	.004	.004	0	%100
4	CPT-1	X	.004	.004	0	%100
5	CPT-2	X	.004	.004	0	%100
6	CPT-3	X	.004	.004	0	%100
7	CPT-4	X	.004	.004	0	%100
8	CPT-5	X	.005	.005	0	%100
9	CPT-6	X	.005	.005	0	%100
10	CPT-7	X	.005	.005	0	%100
11	CPT-8	X	.005	.005	0	%100
12	CPT-9	X	.001	.001	0	%100
13	CPT-10	X	.001	.001	0	%100
14	CPT-11	X	.001	.001	0	%100
15	CPT-12	X	.001	.001	0	%100
16	FF-TH	X	.005	.005	0	%100
17	GSI-1A	X	.01	.01	0	%100
18	GSI-1B	X	.01	.01	0	%100
19	GSI-2A	X	.008	.008	0	%100
20	GSI-2B	X	.008	.008	0	%100
21	GSI-3A	X	.003	.003	0	%100
22	GSI-3B	X	.003	.003	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

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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.%]	
23	GSIP-1A	X	.006	.006	0	%100
24	GSIP-1B	X	.002	.002	0	%100
25	GSIP-2A	X	.002	.002	0	%100
26	GSIP-2B	X	.006	.006	0	%100
27	GSIP-3A	X	.006	.006	0	%100
28	GSIP-3B	X	.006	.006	0	%100
29	MP-1	X	.006	.006	0	%100
30	MP-1B	X	.006	.006	0	%100
31	MP-2	X	.006	.006	0	%100
32	MP-3	X	.006	.006	0	%100
33	MP-4	X	.006	.006	0	%100
34	MP-5	X	.006	.006	0	%100
35	MP-5B	X	.006	.006	0	%100
36	MP-6	X	.006	.006	0	%100
37	MP-7	X	.006	.006	0	%100
38	MP-8	X	.006	.006	0	%100
39	MP-9	X	.006	.006	0	%100
40	MP-9B	X	.006	.006	0	%100
41	MP-10	X	.006	.006	0	%100
42	MP-11	X	.006	.006	0	%100
43	MP-12	X	.006	.006	0	%100
44	SA-1	X	.003	.003	0	%100
45	SA-2	X	.007	.007	0	%100
46	SA-3	X	.013	.013	0	%100
47	SF1-TH	X	.002	.002	0	%100
48	SF2-TH	X	.007	.007	0	%100
49	TR-1	X	.000427	.000427	0	%100
50	TR-2	X	.000427	.000427	0	%100
51	TR-3	X	.000427	.000427	0	%100
52	TR-4	X	.000427	.000427	0	%100
53	TR-5	X	.000205	.000205	0	%100
54	TR-6	X	.000205	.000205	0	%100
55	TR-7	X	.000205	.000205	0	%100
56	TR-8	X	.000205	.000205	0	%100
57	TR-9	X	.000764	.000764	0	%100
58	TR-10	X	.000764	.000764	0	%100
59	TR-11	X	.000764	.000764	0	%100
60	TR-12	X	.000764	.000764	0	%100
61	CP-1	Z	.014	.014	0	%100
62	CP-2	Z	.01	.01	0	%100
63	CP-3	Z	.004	.004	0	%100
64	CPT-1	Z	.004	.004	0	%100
65	CPT-2	Z	.004	.004	0	%100
66	CPT-3	Z	.004	.004	0	%100
67	CPT-4	Z	.004	.004	0	%100
68	CPT-5	Z	.005	.005	0	%100
69	CPT-6	Z	.005	.005	0	%100
70	CPT-7	Z	.005	.005	0	%100
71	CPT-8	Z	.005	.005	0	%100
72	CPT-9	Z	.001	.001	0	%100
73	CPT-10	Z	.001	.001	0	%100
74	CPT-11	Z	.001	.001	0	%100
75	CPT-12	Z	.001	.001	0	%100
76	FF-TH	Z	.005	.005	0	%100
77	GSI-1A	Z	.011	.011	0	%100
78	GSI-1B	Z	.011	.011	0	%100
79	GSI-2A	Z	.008	.008	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

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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.%]	
80	GSI-2B	Z	.008	.008	0	%100
81	GSI-3A	Z	.003	.003	0	%100
82	GSI-3B	Z	.003	.003	0	%100
83	GSIP-1A	Z	.006	.006	0	%100
84	GSIP-1B	Z	.002	.002	0	%100
85	GSIP-2A	Z	.002	.002	0	%100
86	GSIP-2B	Z	.007	.007	0	%100
87	GSIP-3A	Z	.007	.007	0	%100
88	GSIP-3B	Z	.006	.006	0	%100
89	MP-1	Z	.006	.006	0	%100
90	MP-1B	Z	.006	.006	0	%100
91	MP-2	Z	.006	.006	0	%100
92	MP-3	Z	.006	.006	0	%100
93	MP-4	Z	.006	.006	0	%100
94	MP-5	Z	.006	.006	0	%100
95	MP-5B	Z	.006	.006	0	%100
96	MP-6	Z	.006	.006	0	%100
97	MP-7	Z	.006	.006	0	%100
98	MP-8	Z	.006	.006	0	%100
99	MP-9	Z	.006	.006	0	%100
100	MP-9B	Z	.006	.006	0	%100
101	MP-10	Z	.006	.006	0	%100
102	MP-11	Z	.006	.006	0	%100
103	MP-12	Z	.006	.006	0	%100
104	SA-1	Z	.003	.003	0	%100
105	SA-2	Z	.01	.01	0	%100
106	SA-3	Z	.011	.011	0	%100
107	SF1-TH	Z	.002	.002	0	%100
108	SF2-TH	Z	.007	.007	0	%100
109	TR-1	Z	.000585	.000585	0	%100
110	TR-2	Z	.000585	.000585	0	%100
111	TR-3	Z	.000585	.000585	0	%100
112	TR-4	Z	.000585	.000585	0	%100
113	TR-5	Z	.000179	.000179	0	%100
114	TR-6	Z	.000179	.000179	0	%100
115	TR-7	Z	.000179	.000179	0	%100
116	TR-8	Z	.000179	.000179	0	%100
117	TR-9	Z	.000668	.000668	0	%100
118	TR-10	Z	.000668	.000668	0	%100
119	TR-11	Z	.000668	.000668	0	%100
120	TR-12	Z	.000668	.000668	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	.01	.01	0	%100
2	CP-2	X	.005	.005	0	%100
3	CP-3	X	.005	.005	0	%100
4	CPT-1	X	.002	.002	0	%100
5	CPT-2	X	.002	.002	0	%100
6	CPT-3	X	.002	.002	0	%100
7	CPT-4	X	.002	.002	0	%100
8	CPT-5	X	.003	.003	0	%100
9	CPT-6	X	.003	.003	0	%100
10	CPT-7	X	.003	.003	0	%100
11	CPT-8	X	.003	.003	0	%100
12	CPT-9	X	.002	.002	0	%100



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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
13	CPT-10	X	.002	.002	0	%100
14	CPT-11	X	.002	.002	0	%100
15	CPT-12	X	.002	.002	0	%100
16	FF-TH	X	.003	.003	0	%100
17	GSI-1A	X	.007	.007	0	%100
18	GSI-1B	X	.007	.007	0	%100
19	GSI-2A	X	.004	.004	0	%100
20	GSI-2B	X	.004	.004	0	%100
21	GSI-3A	X	.004	.004	0	%100
22	GSI-3B	X	.004	.004	0	%100
23	GSIP-1A	X	.003	.003	0	%100
24	GSIP-1B	X	.002	.002	0	%100
25	GSIP-2A	X	.002	.002	0	%100
26	GSIP-2B	X	.005	.005	0	%100
27	GSIP-3A	X	.005	.005	0	%100
28	GSIP-3B	X	.003	.003	0	%100
29	MP-1	X	.004	.004	0	%100
30	MP-1B	X	.004	.004	0	%100
31	MP-2	X	.004	.004	0	%100
32	MP-3	X	.004	.004	0	%100
33	MP-4	X	.004	.004	0	%100
34	MP-5	X	.004	.004	0	%100
35	MP-5B	X	.004	.004	0	%100
36	MP-6	X	.004	.004	0	%100
37	MP-7	X	.004	.004	0	%100
38	MP-8	X	.004	.004	0	%100
39	MP-9	X	.004	.004	0	%100
40	MP-9B	X	.004	.004	0	%100
41	MP-10	X	.004	.004	0	%100
42	MP-11	X	.004	.004	0	%100
43	MP-12	X	.004	.004	0	%100
44	SA-1	X	0	0	0	%100
45	SA-2	X	.006	.006	0	%100
46	SA-3	X	.008	.008	0	%100
47	SF1-TH	X	.003	.003	0	%100
48	SF2-TH	X	.005	.005	0	%100
49	TR-1	X	.00037	.00037	0	%100
50	TR-2	X	.00037	.00037	0	%100
51	TR-3	X	.00037	.00037	0	%100
52	TR-4	X	.00037	.00037	0	%100
53	TR-5	X	0	0	0	%100
54	TR-6	X	0	0	0	%100
55	TR-7	X	0	0	0	%100
56	TR-8	X	0	0	0	%100
57	TR-9	X	.000484	.000484	0	%100
58	TR-10	X	.000484	.000484	0	%100
59	TR-11	X	.000484	.000484	0	%100
60	TR-12	X	.000484	.000484	0	%100
61	CP-1	Z	.018	.018	0	%100
62	CP-2	Z	.009	.009	0	%100
63	CP-3	Z	.009	.009	0	%100
64	CPT-1	Z	.003	.003	0	%100
65	CPT-2	Z	.003	.003	0	%100
66	CPT-3	Z	.003	.003	0	%100
67	CPT-4	Z	.003	.003	0	%100
68	CPT-5	Z	.006	.006	0	%100
69	CPT-6	Z	.006	.006	0	%100



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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
70	CPT-7	Z	.006	.006	0	%100
71	CPT-8	Z	.006	.006	0	%100
72	CPT-9	Z	.003	.003	0	%100
73	CPT-10	Z	.003	.003	0	%100
74	CPT-11	Z	.003	.003	0	%100
75	CPT-12	Z	.003	.003	0	%100
76	FF-TH	Z	.005	.005	0	%100
77	GSI-1A	Z	.014	.014	0	%100
78	GSI-1B	Z	.014	.014	0	%100
79	GSI-2A	Z	.007	.007	0	%100
80	GSI-2B	Z	.007	.007	0	%100
81	GSI-3A	Z	.007	.007	0	%100
82	GSI-3B	Z	.007	.007	0	%100
83	GSIP-1A	Z	.005	.005	0	%100
84	GSIP-1B	Z	.005	.005	0	%100
85	GSIP-2A	Z	.005	.005	0	%100
86	GSIP-2B	Z	.009	.009	0	%100
87	GSIP-3A	Z	.009	.009	0	%100
88	GSIP-3B	Z	.005	.005	0	%100
89	MP-1	Z	.007	.007	0	%100
90	MP-1B	Z	.007	.007	0	%100
91	MP-2	Z	.007	.007	0	%100
92	MP-3	Z	.007	.007	0	%100
93	MP-4	Z	.007	.007	0	%100
94	MP-5	Z	.007	.007	0	%100
95	MP-5B	Z	.007	.007	0	%100
96	MP-6	Z	.007	.007	0	%100
97	MP-7	Z	.007	.007	0	%100
98	MP-8	Z	.007	.007	0	%100
99	MP-9	Z	.007	.007	0	%100
100	MP-9B	Z	.007	.007	0	%100
101	MP-10	Z	.007	.007	0	%100
102	MP-11	Z	.007	.007	0	%100
103	MP-12	Z	.007	.007	0	%100
104	SA-1	Z	0	0	0	%100
105	SA-2	Z	.015	.015	0	%100
106	SA-3	Z	.012	.012	0	%100
107	SF1-TH	Z	.005	.005	0	%100
108	SF2-TH	Z	.009	.009	0	%100
109	TR-1	Z	.000878	.000878	0	%100
110	TR-2	Z	.000878	.000878	0	%100
111	TR-3	Z	.000878	.000878	0	%100
112	TR-4	Z	.000878	.000878	0	%100
113	TR-5	Z	0	0	0	%100
114	TR-6	Z	0	0	0	%100
115	TR-7	Z	0	0	0	%100
116	TR-8	Z	0	0	0	%100
117	TR-9	Z	.000734	.000734	0	%100
118	TR-10	Z	.000734	.000734	0	%100
119	TR-11	Z	.000734	.000734	0	%100
120	TR-12	Z	.000734	.000734	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	.018	.018	0	%100
2	CP-2	Z	0	0	0	%100



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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
3	CP-3	Z	.018	.018	0	%100
4	CPT-1	Z	0	0	0	%100
5	CPT-2	Z	0	0	0	%100
6	CPT-3	Z	0	0	0	%100
7	CPT-4	Z	0	0	0	%100
8	CPT-5	Z	.006	.006	0	%100
9	CPT-6	Z	.006	.006	0	%100
10	CPT-7	Z	.006	.006	0	%100
11	CPT-8	Z	.006	.006	0	%100
12	CPT-9	Z	.006	.006	0	%100
13	CPT-10	Z	.006	.006	0	%100
14	CPT-11	Z	.006	.006	0	%100
15	CPT-12	Z	.006	.006	0	%100
16	FF-TH	Z	0	0	0	%100
17	GSI-1A	Z	.014	.014	0	%100
18	GSI-1B	Z	.014	.014	0	%100
19	GSI-2A	Z	0	0	0	%100
20	GSI-2B	Z	0	0	0	%100
21	GSI-3A	Z	.014	.014	0	%100
22	GSI-3B	Z	.014	.014	0	%100
23	GSIP-1A	Z	0	0	0	%100
24	GSIP-1B	Z	.009	.009	0	%100
25	GSIP-2A	Z	.009	.009	0	%100
26	GSIP-2B	Z	.009	.009	0	%100
27	GSIP-3A	Z	.009	.009	0	%100
28	GSIP-3B	Z	0	0	0	%100
29	MP-1	Z	.008	.008	0	%100
30	MP-1B	Z	.008	.008	0	%100
31	MP-2	Z	.008	.008	0	%100
32	MP-3	Z	.008	.008	0	%100
33	MP-4	Z	.008	.008	0	%100
34	MP-5	Z	.008	.008	0	%100
35	MP-5B	Z	.008	.008	0	%100
36	MP-6	Z	.008	.008	0	%100
37	MP-7	Z	.008	.008	0	%100
38	MP-8	Z	.008	.008	0	%100
39	MP-9	Z	.008	.008	0	%100
40	MP-9B	Z	.008	.008	0	%100
41	MP-10	Z	.008	.008	0	%100
42	MP-11	Z	.008	.008	0	%100
43	MP-12	Z	.008	.008	0	%100
44	SA-1	Z	.008	.008	0	%100
45	SA-2	Z	.019	.019	0	%100
46	SA-3	Z	.008	.008	0	%100
47	SF1-TH	Z	.009	.009	0	%100
48	SF2-TH	Z	.009	.009	0	%100
49	TR-1	Z	.001	.001	0	%100
50	TR-2	Z	.001	.001	0	%100
51	TR-3	Z	.001	.001	0	%100
52	TR-4	Z	.001	.001	0	%100
53	TR-5	Z	.000489	.000489	0	%100
54	TR-6	Z	.000489	.000489	0	%100
55	TR-7	Z	.000489	.000489	0	%100
56	TR-8	Z	.000489	.000489	0	%100
57	TR-9	Z	.000489	.000489	0	%100
58	TR-10	Z	.000489	.000489	0	%100
59	TR-11	Z	.000489	.000489	0	%100



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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
60	TR-12	Z	.000489	.000489	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	-.005	-.005	0	%100
2	CP-2	X	-.005	-.005	0	%100
3	CP-3	X	-.01	-.01	0	%100
4	CPT-1	X	-.002	-.002	0	%100
5	CPT-2	X	-.002	-.002	0	%100
6	CPT-3	X	-.002	-.002	0	%100
7	CPT-4	X	-.002	-.002	0	%100
8	CPT-5	X	-.002	-.002	0	%100
9	CPT-6	X	-.002	-.002	0	%100
10	CPT-7	X	-.002	-.002	0	%100
11	CPT-8	X	-.002	-.002	0	%100
12	CPT-9	X	-.003	-.003	0	%100
13	CPT-10	X	-.003	-.003	0	%100
14	CPT-11	X	-.003	-.003	0	%100
15	CPT-12	X	-.003	-.003	0	%100
16	FF-TH	X	-.003	-.003	0	%100
17	GSI-1A	X	-.004	-.004	0	%100
18	GSI-1B	X	-.004	-.004	0	%100
19	GSI-2A	X	-.004	-.004	0	%100
20	GSI-2B	X	-.004	-.004	0	%100
21	GSI-3A	X	-.007	-.007	0	%100
22	GSI-3B	X	-.007	-.007	0	%100
23	GSIP-1A	X	-.003	-.003	0	%100
24	GSIP-1B	X	-.005	-.005	0	%100
25	GSIP-2A	X	-.005	-.005	0	%100
26	GSIP-2B	X	-.002	-.002	0	%100
27	GSIP-3A	X	-.002	-.002	0	%100
28	GSIP-3B	X	-.003	-.003	0	%100
29	MP-1	X	-.004	-.004	0	%100
30	MP-1B	X	-.004	-.004	0	%100
31	MP-2	X	-.004	-.004	0	%100
32	MP-3	X	-.004	-.004	0	%100
33	MP-4	X	-.004	-.004	0	%100
34	MP-5	X	-.004	-.004	0	%100
35	MP-5B	X	-.004	-.004	0	%100
36	MP-6	X	-.004	-.004	0	%100
37	MP-7	X	-.004	-.004	0	%100
38	MP-8	X	-.004	-.004	0	%100
39	MP-9	X	-.004	-.004	0	%100
40	MP-9B	X	-.004	-.004	0	%100
41	MP-10	X	-.004	-.004	0	%100
42	MP-11	X	-.004	-.004	0	%100
43	MP-12	X	-.004	-.004	0	%100
44	SA-1	X	-.008	-.008	0	%100
45	SA-2	X	-.006	-.006	0	%100
46	SA-3	X	0	0	0	%100
47	SF1-TH	X	-.005	-.005	0	%100
48	SF2-TH	X	-.003	-.003	0	%100
49	TR-1	X	-.00037	-.00037	0	%100
50	TR-2	X	-.00037	-.00037	0	%100
51	TR-3	X	-.00037	-.00037	0	%100
52	TR-4	X	-.00037	-.00037	0	%100



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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
53	TR-5	X	-.000484	-.000484	0	%100
54	TR-6	X	-.000484	-.000484	0	%100
55	TR-7	X	-.000484	-.000484	0	%100
56	TR-8	X	-.000484	-.000484	0	%100
57	TR-9	X	0	0	0	%100
58	TR-10	X	0	0	0	%100
59	TR-11	X	0	0	0	%100
60	TR-12	X	0	0	0	%100
61	CP-1	Z	.009	.009	0	%100
62	CP-2	Z	.009	.009	0	%100
63	CP-3	Z	.018	.018	0	%100
64	CPT-1	Z	.003	.003	0	%100
65	CPT-2	Z	.003	.003	0	%100
66	CPT-3	Z	.003	.003	0	%100
67	CPT-4	Z	.003	.003	0	%100
68	CPT-5	Z	.003	.003	0	%100
69	CPT-6	Z	.003	.003	0	%100
70	CPT-7	Z	.003	.003	0	%100
71	CPT-8	Z	.003	.003	0	%100
72	CPT-9	Z	.006	.006	0	%100
73	CPT-10	Z	.006	.006	0	%100
74	CPT-11	Z	.006	.006	0	%100
75	CPT-12	Z	.006	.006	0	%100
76	FF-TH	Z	.005	.005	0	%100
77	GSI-1A	Z	.007	.007	0	%100
78	GSI-1B	Z	.007	.007	0	%100
79	GSI-2A	Z	.007	.007	0	%100
80	GSI-2B	Z	.007	.007	0	%100
81	GSI-3A	Z	.014	.014	0	%100
82	GSI-3B	Z	.014	.014	0	%100
83	GSIP-1A	Z	.005	.005	0	%100
84	GSIP-1B	Z	.009	.009	0	%100
85	GSIP-2A	Z	.009	.009	0	%100
86	GSIP-2B	Z	.005	.005	0	%100
87	GSIP-3A	Z	.005	.005	0	%100
88	GSIP-3B	Z	.005	.005	0	%100
89	MP-1	Z	.007	.007	0	%100
90	MP-1B	Z	.007	.007	0	%100
91	MP-2	Z	.007	.007	0	%100
92	MP-3	Z	.007	.007	0	%100
93	MP-4	Z	.007	.007	0	%100
94	MP-5	Z	.007	.007	0	%100
95	MP-5B	Z	.007	.007	0	%100
96	MP-6	Z	.007	.007	0	%100
97	MP-7	Z	.007	.007	0	%100
98	MP-8	Z	.007	.007	0	%100
99	MP-9	Z	.007	.007	0	%100
100	MP-9B	Z	.007	.007	0	%100
101	MP-10	Z	.007	.007	0	%100
102	MP-11	Z	.007	.007	0	%100
103	MP-12	Z	.007	.007	0	%100
104	SA-1	Z	.012	.012	0	%100
105	SA-2	Z	.015	.015	0	%100
106	SA-3	Z	0	0	0	%100
107	SF1-TH	Z	.009	.009	0	%100
108	SF2-TH	Z	.005	.005	0	%100
109	TR-1	Z	.000878	.000878	0	%100



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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
110	TR-2	Z	.000878	.000878	0	%100
111	TR-3	Z	.000878	.000878	0	%100
112	TR-4	Z	.000878	.000878	0	%100
113	TR-5	Z	.000734	.000734	0	%100
114	TR-6	Z	.000734	.000734	0	%100
115	TR-7	Z	.000734	.000734	0	%100
116	TR-8	Z	.000734	.000734	0	%100
117	TR-9	Z	0	0	0	%100
118	TR-10	Z	0	0	0	%100
119	TR-11	Z	0	0	0	%100
120	TR-12	Z	0	0	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	-.004	-.004	0	%100
2	CP-2	X	-.01	-.01	0	%100
3	CP-3	X	-.014	-.014	0	%100
4	CPT-1	X	-.004	-.004	0	%100
5	CPT-2	X	-.004	-.004	0	%100
6	CPT-3	X	-.004	-.004	0	%100
7	CPT-4	X	-.004	-.004	0	%100
8	CPT-5	X	-.001	-.001	0	%100
9	CPT-6	X	-.001	-.001	0	%100
10	CPT-7	X	-.001	-.001	0	%100
11	CPT-8	X	-.001	-.001	0	%100
12	CPT-9	X	-.005	-.005	0	%100
13	CPT-10	X	-.005	-.005	0	%100
14	CPT-11	X	-.005	-.005	0	%100
15	CPT-12	X	-.005	-.005	0	%100
16	FF-TH	X	-.005	-.005	0	%100
17	GSI-1A	X	-.003	-.003	0	%100
18	GSI-1B	X	-.003	-.003	0	%100
19	GSI-2A	X	-.008	-.008	0	%100
20	GSI-2B	X	-.008	-.008	0	%100
21	GSI-3A	X	-.01	-.01	0	%100
22	GSI-3B	X	-.01	-.01	0	%100
23	GSIP-1A	X	-.006	-.006	0	%100
24	GSIP-1B	X	-.006	-.006	0	%100
25	GSIP-2A	X	-.006	-.006	0	%100
26	GSIP-2B	X	-.002	-.002	0	%100
27	GSIP-3A	X	-.002	-.002	0	%100
28	GSIP-3B	X	-.006	-.006	0	%100
29	MP-1	X	-.006	-.006	0	%100
30	MP-1B	X	-.006	-.006	0	%100
31	MP-2	X	-.006	-.006	0	%100
32	MP-3	X	-.006	-.006	0	%100
33	MP-4	X	-.006	-.006	0	%100
34	MP-5	X	-.006	-.006	0	%100
35	MP-5B	X	-.006	-.006	0	%100
36	MP-6	X	-.006	-.006	0	%100
37	MP-7	X	-.006	-.006	0	%100
38	MP-8	X	-.006	-.006	0	%100
39	MP-9	X	-.006	-.006	0	%100
40	MP-9B	X	-.006	-.006	0	%100
41	MP-10	X	-.006	-.006	0	%100
42	MP-11	X	-.006	-.006	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

Apr 23, 2020
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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.%]	
43	MP-12	X	-.006	-.006	0	%100
44	SA-1	X	-.013	-.013	0	%100
45	SA-2	X	-.007	-.007	0	%100
46	SA-3	X	-.003	-.003	0	%100
47	SF1-TH	X	-.007	-.007	0	%100
48	SF2-TH	X	-.002	-.002	0	%100
49	TR-1	X	-.000427	-.000427	0	%100
50	TR-2	X	-.000427	-.000427	0	%100
51	TR-3	X	-.000427	-.000427	0	%100
52	TR-4	X	-.000427	-.000427	0	%100
53	TR-5	X	-.000764	-.000764	0	%100
54	TR-6	X	-.000764	-.000764	0	%100
55	TR-7	X	-.000764	-.000764	0	%100
56	TR-8	X	-.000764	-.000764	0	%100
57	TR-9	X	-.000205	-.000205	0	%100
58	TR-10	X	-.000205	-.000205	0	%100
59	TR-11	X	-.000205	-.000205	0	%100
60	TR-12	X	-.000205	-.000205	0	%100
61	CP-1	Z	.004	.004	0	%100
62	CP-2	Z	.01	.01	0	%100
63	CP-3	Z	.014	.014	0	%100
64	CPT-1	Z	.004	.004	0	%100
65	CPT-2	Z	.004	.004	0	%100
66	CPT-3	Z	.004	.004	0	%100
67	CPT-4	Z	.004	.004	0	%100
68	CPT-5	Z	.001	.001	0	%100
69	CPT-6	Z	.001	.001	0	%100
70	CPT-7	Z	.001	.001	0	%100
71	CPT-8	Z	.001	.001	0	%100
72	CPT-9	Z	.005	.005	0	%100
73	CPT-10	Z	.005	.005	0	%100
74	CPT-11	Z	.005	.005	0	%100
75	CPT-12	Z	.005	.005	0	%100
76	FF-TH	Z	.005	.005	0	%100
77	GSI-1A	Z	.003	.003	0	%100
78	GSI-1B	Z	.003	.003	0	%100
79	GSI-2A	Z	.008	.008	0	%100
80	GSI-2B	Z	.008	.008	0	%100
81	GSI-3A	Z	.011	.011	0	%100
82	GSI-3B	Z	.011	.011	0	%100
83	GSIP-1A	Z	.006	.006	0	%100
84	GSIP-1B	Z	.007	.007	0	%100
85	GSIP-2A	Z	.007	.007	0	%100
86	GSIP-2B	Z	.002	.002	0	%100
87	GSIP-3A	Z	.002	.002	0	%100
88	GSIP-3B	Z	.006	.006	0	%100
89	MP-1	Z	.006	.006	0	%100
90	MP-1B	Z	.006	.006	0	%100
91	MP-2	Z	.006	.006	0	%100
92	MP-3	Z	.006	.006	0	%100
93	MP-4	Z	.006	.006	0	%100
94	MP-5	Z	.006	.006	0	%100
95	MP-5B	Z	.006	.006	0	%100
96	MP-6	Z	.006	.006	0	%100
97	MP-7	Z	.006	.006	0	%100
98	MP-8	Z	.006	.006	0	%100
99	MP-9	Z	.006	.006	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

Apr 23, 2020
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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.%]	
100	MP-9B	Z	.006	.006	0	%100
101	MP-10	Z	.006	.006	0	%100
102	MP-11	Z	.006	.006	0	%100
103	MP-12	Z	.006	.006	0	%100
104	SA-1	Z	.011	.011	0	%100
105	SA-2	Z	.01	.01	0	%100
106	SA-3	Z	.003	.003	0	%100
107	SF1-TH	Z	.007	.007	0	%100
108	SF2-TH	Z	.002	.002	0	%100
109	TR-1	Z	.000585	.000585	0	%100
110	TR-2	Z	.000585	.000585	0	%100
111	TR-3	Z	.000585	.000585	0	%100
112	TR-4	Z	.000585	.000585	0	%100
113	TR-5	Z	.000668	.000668	0	%100
114	TR-6	Z	.000668	.000668	0	%100
115	TR-7	Z	.000668	.000668	0	%100
116	TR-8	Z	.000668	.000668	0	%100
117	TR-9	Z	.000179	.000179	0	%100
118	TR-10	Z	.000179	.000179	0	%100
119	TR-11	Z	.000179	.000179	0	%100
120	TR-12	Z	.000179	.000179	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	-.016	-.016	0	%100
3	CP-3	X	-.016	-.016	0	%100
4	CPT-1	X	-.005	-.005	0	%100
5	CPT-2	X	-.005	-.005	0	%100
6	CPT-3	X	-.005	-.005	0	%100
7	CPT-4	X	-.005	-.005	0	%100
8	CPT-5	X	0	0	0	%100
9	CPT-6	X	0	0	0	%100
10	CPT-7	X	0	0	0	%100
11	CPT-8	X	0	0	0	%100
12	CPT-9	X	-.005	-.005	0	%100
13	CPT-10	X	-.005	-.005	0	%100
14	CPT-11	X	-.005	-.005	0	%100
15	CPT-12	X	-.005	-.005	0	%100
16	FF-TH	X	-.008	-.008	0	%100
17	GSI-1A	X	0	0	0	%100
18	GSI-1B	X	0	0	0	%100
19	GSI-2A	X	-.012	-.012	0	%100
20	GSI-2B	X	-.012	-.012	0	%100
21	GSI-3A	X	-.011	-.011	0	%100
22	GSI-3B	X	-.011	-.011	0	%100
23	GSIP-1A	X	-.009	-.009	0	%100
24	GSIP-1B	X	-.007	-.007	0	%100
25	GSIP-2A	X	-.007	-.007	0	%100
26	GSIP-2B	X	0	0	0	%100
27	GSIP-3A	X	0	0	0	%100
28	GSIP-3B	X	-.009	-.009	0	%100
29	MP-1	X	-.007	-.007	0	%100
30	MP-1B	X	-.007	-.007	0	%100
31	MP-2	X	-.007	-.007	0	%100
32	MP-3	X	-.007	-.007	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

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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.%]	
33	MP-4	X	-0.07	-0.07	0	%100
34	MP-5	X	-0.07	-0.07	0	%100
35	MP-5B	X	-0.07	-0.07	0	%100
36	MP-6	X	-0.07	-0.07	0	%100
37	MP-7	X	-0.07	-0.07	0	%100
38	MP-8	X	-0.07	-0.07	0	%100
39	MP-9	X	-0.07	-0.07	0	%100
40	MP-9B	X	-0.07	-0.07	0	%100
41	MP-10	X	-0.07	-0.07	0	%100
42	MP-11	X	-0.07	-0.07	0	%100
43	MP-12	X	-0.07	-0.07	0	%100
44	SA-1	X	-0.16	-0.16	0	%100
45	SA-2	X	-0.06	-0.06	0	%100
46	SA-3	X	-0.08	-0.08	0	%100
47	SF1-TH	X	-0.08	-0.08	0	%100
48	SF2-TH	X	0	0	0	%100
49	TR-1	X	-0.00037	-0.00037	0	%100
50	TR-2	X	-0.00037	-0.00037	0	%100
51	TR-3	X	-0.00037	-0.00037	0	%100
52	TR-4	X	-0.00037	-0.00037	0	%100
53	TR-5	X	-0.000969	-0.000969	0	%100
54	TR-6	X	-0.000969	-0.000969	0	%100
55	TR-7	X	-0.000969	-0.000969	0	%100
56	TR-8	X	-0.000969	-0.000969	0	%100
57	TR-9	X	-0.000484	-0.000484	0	%100
58	TR-10	X	-0.000484	-0.000484	0	%100
59	TR-11	X	-0.000484	-0.000484	0	%100
60	TR-12	X	-0.000484	-0.000484	0	%100
61	CP-1	Z	0	0	0	%100
62	CP-2	Z	0.09	0.09	0	%100
63	CP-3	Z	0.09	0.09	0	%100
64	CPT-1	Z	0.03	0.03	0	%100
65	CPT-2	Z	0.03	0.03	0	%100
66	CPT-3	Z	0.03	0.03	0	%100
67	CPT-4	Z	0.03	0.03	0	%100
68	CPT-5	Z	0	0	0	%100
69	CPT-6	Z	0	0	0	%100
70	CPT-7	Z	0	0	0	%100
71	CPT-8	Z	0	0	0	%100
72	CPT-9	Z	0.03	0.03	0	%100
73	CPT-10	Z	0.03	0.03	0	%100
74	CPT-11	Z	0.03	0.03	0	%100
75	CPT-12	Z	0.03	0.03	0	%100
76	FF-TH	Z	0.05	0.05	0	%100
77	GSI-1A	Z	0	0	0	%100
78	GSI-1B	Z	0	0	0	%100
79	GSI-2A	Z	0.07	0.07	0	%100
80	GSI-2B	Z	0.07	0.07	0	%100
81	GSI-3A	Z	0.07	0.07	0	%100
82	GSI-3B	Z	0.07	0.07	0	%100
83	GSIP-1A	Z	0.05	0.05	0	%100
84	GSIP-1B	Z	0.05	0.05	0	%100
85	GSIP-2A	Z	0.05	0.05	0	%100
86	GSIP-2B	Z	0	0	0	%100
87	GSIP-3A	Z	0	0	0	%100
88	GSIP-3B	Z	0.05	0.05	0	%100
89	MP-1	Z	0.04	0.04	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

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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.%]	
90	MP-1B	Z	0.04	0.04	0	%100
91	MP-2	Z	0.04	0.04	0	%100
92	MP-3	Z	0.04	0.04	0	%100
93	MP-4	Z	0.04	0.04	0	%100
94	MP-5	Z	0.04	0.04	0	%100
95	MP-5B	Z	0.04	0.04	0	%100
96	MP-6	Z	0.04	0.04	0	%100
97	MP-7	Z	0.04	0.04	0	%100
98	MP-8	Z	0.04	0.04	0	%100
99	MP-9	Z	0.04	0.04	0	%100
100	MP-9B	Z	0.04	0.04	0	%100
101	MP-10	Z	0.04	0.04	0	%100
102	MP-11	Z	0.04	0.04	0	%100
103	MP-12	Z	0.04	0.04	0	%100
104	SA-1	Z	0.08	0.08	0	%100
105	SA-2	Z	0.05	0.05	0	%100
106	SA-3	Z	0.04	0.04	0	%100
107	SF1-TH	Z	0.05	0.05	0	%100
108	SF2-TH	Z	0	0	0	%100
109	TR-1	Z	0.00293	0.00293	0	%100
110	TR-2	Z	0.00293	0.00293	0	%100
111	TR-3	Z	0.00293	0.00293	0	%100
112	TR-4	Z	0.00293	0.00293	0	%100
113	TR-5	Z	0.00489	0.00489	0	%100
114	TR-6	Z	0.00489	0.00489	0	%100
115	TR-7	Z	0.00489	0.00489	0	%100
116	TR-8	Z	0.00489	0.00489	0	%100
117	TR-9	Z	0.00245	0.00245	0	%100
118	TR-10	Z	0.00245	0.00245	0	%100
119	TR-11	Z	0.00245	0.00245	0	%100
120	TR-12	Z	0.00245	0.00245	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	-0.06	-0.06	0	%100
2	CP-2	Y	-0.06	-0.06	0	%100
3	CP-3	Y	-0.06	-0.06	0	%100
4	CPT-1	Y	-0.03	-0.03	0	%100
5	CPT-2	Y	-0.03	-0.03	0	%100
6	CPT-3	Y	-0.03	-0.03	0	%100
7	CPT-4	Y	-0.03	-0.03	0	%100
8	CPT-5	Y	-0.03	-0.03	0	%100
9	CPT-6	Y	-0.03	-0.03	0	%100
10	CPT-7	Y	-0.03	-0.03	0	%100
11	CPT-8	Y	-0.03	-0.03	0	%100
12	CPT-9	Y	-0.03	-0.03	0	%100
13	CPT-10	Y	-0.03	-0.03	0	%100
14	CPT-11	Y	-0.03	-0.03	0	%100
15	CPT-12	Y	-0.03	-0.03	0	%100
16	FF-TH	Y	-0.06	-0.06	0	%100
17	GSI-1A	Y	-0.07	-0.07	0	%100
18	GSI-1B	Y	-0.07	-0.07	0	%100
19	GSI-2A	Y	-0.07	-0.07	0	%100
20	GSI-2B	Y	-0.07	-0.07	0	%100
21	GSI-3A	Y	-0.07	-0.07	0	%100
22	GSI-3B	Y	-0.07	-0.07	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

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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.%]	
23	GSIP-1A	Y	-0.04	-0.04	0	%100
24	GSIP-1B	Y	-0.04	-0.04	0	%100
25	GSIP-2A	Y	-0.04	-0.04	0	%100
26	GSIP-2B	Y	-0.04	-0.04	0	%100
27	GSIP-3A	Y	-0.04	-0.04	0	%100
28	GSIP-3B	Y	-0.04	-0.04	0	%100
29	MP-1	Y	-0.05	-0.05	0	%100
30	MP-1B	Y	-0.05	-0.05	0	%100
31	MP-2	Y	-0.05	-0.05	0	%100
32	MP-3	Y	-0.05	-0.05	0	%100
33	MP-4	Y	-0.05	-0.05	0	%100
34	MP-5	Y	-0.05	-0.05	0	%100
35	MP-5B	Y	-0.05	-0.05	0	%100
36	MP-6	Y	-0.05	-0.05	0	%100
37	MP-7	Y	-0.05	-0.05	0	%100
38	MP-8	Y	-0.05	-0.05	0	%100
39	MP-9	Y	-0.05	-0.05	0	%100
40	MP-9B	Y	-0.05	-0.05	0	%100
41	MP-10	Y	-0.05	-0.05	0	%100
42	MP-11	Y	-0.05	-0.05	0	%100
43	MP-12	Y	-0.05	-0.05	0	%100
44	SA-1	Y	-0.07	-0.07	0	%100
45	SA-2	Y	-0.07	-0.07	0	%100
46	SA-3	Y	-0.07	-0.07	0	%100
47	SF1-TH	Y	-0.06	-0.06	0	%100
48	SF2-TH	Y	-0.06	-0.06	0	%100
49	TR-1	Y	-0.03	-0.03	0	%100
50	TR-2	Y	-0.03	-0.03	0	%100
51	TR-3	Y	-0.03	-0.03	0	%100
52	TR-4	Y	-0.03	-0.03	0	%100
53	TR-5	Y	-0.03	-0.03	0	%100
54	TR-6	Y	-0.03	-0.03	0	%100
55	TR-7	Y	-0.03	-0.03	0	%100
56	TR-8	Y	-0.03	-0.03	0	%100
57	TR-9	Y	-0.03	-0.03	0	%100
58	TR-10	Y	-0.03	-0.03	0	%100
59	TR-11	Y	-0.03	-0.03	0	%100
60	TR-12	Y	-0.03	-0.03	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	-0.05	-0.05	0	%100
2	CP-2	X	-0.05	-0.05	0	%100
3	CP-3	X	-0.05	-0.05	0	%100
4	CPT-1	X	-0.03	-0.03	0	%100
5	CPT-2	X	-0.03	-0.03	0	%100
6	CPT-3	X	-0.03	-0.03	0	%100
7	CPT-4	X	-0.03	-0.03	0	%100
8	CPT-5	X	-0.03	-0.03	0	%100
9	CPT-6	X	-0.03	-0.03	0	%100
10	CPT-7	X	-0.03	-0.03	0	%100
11	CPT-8	X	-0.03	-0.03	0	%100
12	CPT-9	X	-0.03	-0.03	0	%100
13	CPT-10	X	-0.03	-0.03	0	%100
14	CPT-11	X	-0.03	-0.03	0	%100
15	CPT-12	X	-0.03	-0.03	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

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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.%]	
16	FF-TH	X	-0.03	-0.03	0	%100
17	GSI-1A	X	-0.03	-0.03	0	%100
18	GSI-1B	X	-0.03	-0.03	0	%100
19	GSI-2A	X	-0.04	-0.04	0	%100
20	GSI-2B	X	-0.04	-0.04	0	%100
21	GSI-3A	X	-0.03	-0.03	0	%100
22	GSI-3B	X	-0.03	-0.03	0	%100
23	GSIP-1A	X	-0.03	-0.03	0	%100
24	GSIP-1B	X	-0.03	-0.03	0	%100
25	GSIP-2A	X	-0.03	-0.03	0	%100
26	GSIP-2B	X	-0.03	-0.03	0	%100
27	GSIP-3A	X	-0.03	-0.03	0	%100
28	GSIP-3B	X	-0.03	-0.03	0	%100
29	MP-1	X	-0.02	-0.02	0	%100
30	MP-1B	X	-0.02	-0.02	0	%100
31	MP-2	X	-0.02	-0.02	0	%100
32	MP-3	X	-0.02	-0.02	0	%100
33	MP-4	X	-0.02	-0.02	0	%100
34	MP-5	X	-0.02	-0.02	0	%100
35	MP-5B	X	-0.02	-0.02	0	%100
36	MP-6	X	-0.02	-0.02	0	%100
37	MP-7	X	-0.02	-0.02	0	%100
38	MP-8	X	-0.02	-0.02	0	%100
39	MP-9	X	-0.02	-0.02	0	%100
40	MP-9B	X	-0.02	-0.02	0	%100
41	MP-10	X	-0.02	-0.02	0	%100
42	MP-11	X	-0.02	-0.02	0	%100
43	MP-12	X	-0.02	-0.02	0	%100
44	SA-1	X	-0.04	-0.04	0	%100
45	SA-2	X	-0.03	-0.03	0	%100
46	SA-3	X	-0.04	-0.04	0	%100
47	SF1-TH	X	-0.02	-0.02	0	%100
48	SF2-TH	X	-0.02	-0.02	0	%100
49	TR-1	X	-0.01	-0.01	0	%100
50	TR-2	X	-0.01	-0.01	0	%100
51	TR-3	X	-0.01	-0.01	0	%100
52	TR-4	X	-0.01	-0.01	0	%100
53	TR-5	X	-0.01	-0.01	0	%100
54	TR-6	X	-0.01	-0.01	0	%100
55	TR-7	X	-0.01	-0.01	0	%100
56	TR-8	X	-0.01	-0.01	0	%100
57	TR-9	X	-0.01	-0.01	0	%100
58	TR-10	X	-0.01	-0.01	0	%100
59	TR-11	X	-0.01	-0.01	0	%100
60	TR-12	X	-0.01	-0.01	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	-0.04	-0.04	0	%100
2	CP-2	X	-0.04	-0.04	0	%100
3	CP-3	X	0	0	0	%100
4	CPT-1	X	-0.02	-0.02	0	%100
5	CPT-2	X	-0.02	-0.02	0	%100
6	CPT-3	X	-0.02	-0.02	0	%100
7	CPT-4	X	-0.02	-0.02	0	%100
8	CPT-5	X	-0.02	-0.02	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

Apr 23, 2020
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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.%]	
9	CPT-6	X	-0.02	-0.02	0	%100
10	CPT-7	X	-0.02	-0.02	0	%100
11	CPT-8	X	-0.02	-0.02	0	%100
12	CPT-9	X	0	0	0	%100
13	CPT-10	X	0	0	0	%100
14	CPT-11	X	0	0	0	%100
15	CPT-12	X	0	0	0	%100
16	FF-TH	X	-0.02	-0.02	0	%100
17	GS1-1A	X	-0.03	-0.03	0	%100
18	GS1-1B	X	-0.03	-0.03	0	%100
19	GS1-2A	X	-0.03	-0.03	0	%100
20	GS1-2B	X	-0.03	-0.03	0	%100
21	GS1-3A	X	0	0	0	%100
22	GS1-3B	X	0	0	0	%100
23	GSIP-1A	X	-0.02	-0.02	0	%100
24	GSIP-1B	X	0	0	0	%100
25	GSIP-2A	X	0	0	0	%100
26	GSIP-2B	X	-0.02	-0.02	0	%100
27	GSIP-3A	X	-0.02	-0.02	0	%100
28	GSIP-3B	X	-0.02	-0.02	0	%100
29	MP-1	X	-0.02	-0.02	0	%100
30	MP-1B	X	-0.02	-0.02	0	%100
31	MP-2	X	-0.02	-0.02	0	%100
32	MP-3	X	-0.02	-0.02	0	%100
33	MP-4	X	-0.02	-0.02	0	%100
34	MP-5	X	-0.02	-0.02	0	%100
35	MP-5B	X	-0.02	-0.02	0	%100
36	MP-6	X	-0.02	-0.02	0	%100
37	MP-7	X	-0.02	-0.02	0	%100
38	MP-8	X	-0.02	-0.02	0	%100
39	MP-9	X	-0.02	-0.02	0	%100
40	MP-9B	X	-0.02	-0.02	0	%100
41	MP-10	X	-0.02	-0.02	0	%100
42	MP-11	X	-0.02	-0.02	0	%100
43	MP-12	X	-0.02	-0.02	0	%100
44	SA-1	X	-0.02	-0.02	0	%100
45	SA-2	X	-0.01	-0.01	0	%100
46	SA-3	X	-0.03	-0.03	0	%100
47	SF1-TH	X	0	0	0	%100
48	SF2-TH	X	-0.02	-0.02	0	%100
49	TR-1	X	-0.00464	-0.00464	0	%100
50	TR-2	X	-0.00464	-0.00464	0	%100
51	TR-3	X	-0.00464	-0.00464	0	%100
52	TR-4	X	-0.00464	-0.00464	0	%100
53	TR-5	X	-0.00468	-0.00468	0	%100
54	TR-6	X	-0.00468	-0.00468	0	%100
55	TR-7	X	-0.00468	-0.00468	0	%100
56	TR-8	X	-0.00468	-0.00468	0	%100
57	TR-9	X	-0.00936	-0.00936	0	%100
58	TR-10	X	-0.00936	-0.00936	0	%100
59	TR-11	X	-0.00936	-0.00936	0	%100
60	TR-12	X	-0.00936	-0.00936	0	%100
61	CP-1	Z	-0.02	-0.02	0	%100
62	CP-2	Z	-0.02	-0.02	0	%100
63	CP-3	Z	0	0	0	%100
64	CPT-1	Z	-0.01	-0.01	0	%100
65	CPT-2	Z	-0.01	-0.01	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

Apr 23, 2020
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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.%]	
66	CPT-3	Z	-0.01	-0.01	0	%100
67	CPT-4	Z	-0.01	-0.01	0	%100
68	CPT-5	Z	-0.01	-0.01	0	%100
69	CPT-6	Z	-0.01	-0.01	0	%100
70	CPT-7	Z	-0.01	-0.01	0	%100
71	CPT-8	Z	-0.01	-0.01	0	%100
72	CPT-9	Z	0	0	0	%100
73	CPT-10	Z	0	0	0	%100
74	CPT-11	Z	0	0	0	%100
75	CPT-12	Z	0	0	0	%100
76	FF-TH	Z	-0.01	-0.01	0	%100
77	GS1-1A	Z	-0.02	-0.02	0	%100
78	GS1-1B	Z	-0.02	-0.02	0	%100
79	GS1-2A	Z	-0.01	-0.01	0	%100
80	GS1-2B	Z	-0.01	-0.01	0	%100
81	GS1-3A	Z	0	0	0	%100
82	GS1-3B	Z	0	0	0	%100
83	GSIP-1A	Z	-0.01	-0.01	0	%100
84	GSIP-1B	Z	0	0	0	%100
85	GSIP-2A	Z	0	0	0	%100
86	GSIP-2B	Z	-0.01	-0.01	0	%100
87	GSIP-3A	Z	-0.01	-0.01	0	%100
88	GSIP-3B	Z	-0.01	-0.01	0	%100
89	MP-1	Z	-0.01	-0.01	0	%100
90	MP-1B	Z	-0.01	-0.01	0	%100
91	MP-2	Z	-0.01	-0.01	0	%100
92	MP-3	Z	-0.01	-0.01	0	%100
93	MP-4	Z	-0.01	-0.01	0	%100
94	MP-5	Z	-0.01	-0.01	0	%100
95	MP-5B	Z	-0.01	-0.01	0	%100
96	MP-6	Z	-0.01	-0.01	0	%100
97	MP-7	Z	-0.01	-0.01	0	%100
98	MP-8	Z	-0.01	-0.01	0	%100
99	MP-9	Z	-0.01	-0.01	0	%100
100	MP-9B	Z	-0.01	-0.01	0	%100
101	MP-10	Z	-0.01	-0.01	0	%100
102	MP-11	Z	-0.01	-0.01	0	%100
103	MP-12	Z	-0.01	-0.01	0	%100
104	SA-1	Z	-0.00908	-0.00908	0	%100
105	SA-2	Z	-0.01	-0.01	0	%100
106	SA-3	Z	-0.02	-0.02	0	%100
107	SF1-TH	Z	0	0	0	%100
108	SF2-TH	Z	-0.01	-0.01	0	%100
109	TR-1	Z	-0.00273	-0.00273	0	%100
110	TR-2	Z	-0.00273	-0.00273	0	%100
111	TR-3	Z	-0.00273	-0.00273	0	%100
112	TR-4	Z	-0.00273	-0.00273	0	%100
113	TR-5	Z	-0.00268	-0.00268	0	%100
114	TR-6	Z	-0.00268	-0.00268	0	%100
115	TR-7	Z	-0.00268	-0.00268	0	%100
116	TR-8	Z	-0.00268	-0.00268	0	%100
117	TR-9	Z	-0.00535	-0.00535	0	%100
118	TR-10	Z	-0.00535	-0.00535	0	%100
119	TR-11	Z	-0.00535	-0.00535	0	%100
120	TR-12	Z	-0.00535	-0.00535	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

Apr 23, 2020
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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	-0.003	-0.003	0	%100
2 CP-2	X	-0.002	-0.002	0	%100
3 CP-3	X	-0.000876	-0.000876	0	%100
4 CPT-1	X	-0.001	-0.001	0	%100
5 CPT-2	X	-0.001	-0.001	0	%100
6 CPT-3	X	-0.001	-0.001	0	%100
7 CPT-4	X	-0.001	-0.001	0	%100
8 CPT-5	X	-0.002	-0.002	0	%100
9 CPT-6	X	-0.002	-0.002	0	%100
10 CPT-7	X	-0.002	-0.002	0	%100
11 CPT-8	X	-0.002	-0.002	0	%100
12 CPT-9	X	-0.000537	-0.000537	0	%100
13 CPT-10	X	-0.000537	-0.000537	0	%100
14 CPT-11	X	-0.000537	-0.000537	0	%100
15 CPT-12	X	-0.000537	-0.000537	0	%100
16 FF-TH	X	-0.001	-0.001	0	%100
17 GSI-1A	X	-0.002	-0.002	0	%100
18 GSI-1B	X	-0.002	-0.002	0	%100
19 GSI-2A	X	-0.002	-0.002	0	%100
20 GSI-2B	X	-0.002	-0.002	0	%100
21 GSI-3A	X	-0.00063	-0.00063	0	%100
22 GSI-3B	X	-0.00063	-0.00063	0	%100
23 GSIP-1A	X	-0.001	-0.001	0	%100
24 GSIP-1B	X	-0.000471	-0.000471	0	%100
25 GSIP-2A	X	-0.000471	-0.000471	0	%100
26 GSIP-2B	X	-0.002	-0.002	0	%100
27 GSIP-3A	X	-0.002	-0.002	0	%100
28 GSIP-3B	X	-0.001	-0.001	0	%100
29 MP-1	X	-0.001	-0.001	0	%100
30 MP-1B	X	-0.001	-0.001	0	%100
31 MP-2	X	-0.001	-0.001	0	%100
32 MP-3	X	-0.001	-0.001	0	%100
33 MP-4	X	-0.001	-0.001	0	%100
34 MP-5	X	-0.001	-0.001	0	%100
35 MP-5B	X	-0.001	-0.001	0	%100
36 MP-6	X	-0.001	-0.001	0	%100
37 MP-7	X	-0.001	-0.001	0	%100
38 MP-8	X	-0.001	-0.001	0	%100
39 MP-9	X	-0.001	-0.001	0	%100
40 MP-9B	X	-0.001	-0.001	0	%100
41 MP-10	X	-0.001	-0.001	0	%100
42 MP-11	X	-0.001	-0.001	0	%100
43 MP-12	X	-0.001	-0.001	0	%100
44 SA-1	X	-0.000735	-0.000735	0	%100
45 SA-2	X	-0.002	-0.002	0	%100
46 SA-3	X	-0.003	-0.003	0	%100
47 SF1-TH	X	-0.000446	-0.000446	0	%100
48 SF2-TH	X	-0.002	-0.002	0	%100
49 TR-1	X	-0.000535	-0.000535	0	%100
50 TR-2	X	-0.000535	-0.000535	0	%100
51 TR-3	X	-0.000535	-0.000535	0	%100
52 TR-4	X	-0.000535	-0.000535	0	%100
53 TR-5	X	-0.000198	-0.000198	0	%100
54 TR-6	X	-0.000198	-0.000198	0	%100
55 TR-7	X	-0.000198	-0.000198	0	%100
56 TR-8	X	-0.000198	-0.000198	0	%100
57 TR-9	X	-0.000739	-0.000739	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

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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.%]
58 TR-10	X	-0.000739	-0.000739	0	%100
59 TR-11	X	-0.000739	-0.000739	0	%100
60 TR-12	X	-0.000739	-0.000739	0	%100
61 CP-1	Z	-0.003	-0.003	0	%100
62 CP-2	Z	-0.002	-0.002	0	%100
63 CP-3	Z	-0.000876	-0.000876	0	%100
64 CPT-1	Z	-0.001	-0.001	0	%100
65 CPT-2	Z	-0.001	-0.001	0	%100
66 CPT-3	Z	-0.001	-0.001	0	%100
67 CPT-4	Z	-0.001	-0.001	0	%100
68 CPT-5	Z	-0.002	-0.002	0	%100
69 CPT-6	Z	-0.002	-0.002	0	%100
70 CPT-7	Z	-0.002	-0.002	0	%100
71 CPT-8	Z	-0.002	-0.002	0	%100
72 CPT-9	Z	-0.000537	-0.000537	0	%100
73 CPT-10	Z	-0.000537	-0.000537	0	%100
74 CPT-11	Z	-0.000537	-0.000537	0	%100
75 CPT-12	Z	-0.000537	-0.000537	0	%100
76 FF-TH	Z	-0.001	-0.001	0	%100
77 GSI-1A	Z	-0.003	-0.003	0	%100
78 GSI-1B	Z	-0.003	-0.003	0	%100
79 GSI-2A	Z	-0.002	-0.002	0	%100
80 GSI-2B	Z	-0.002	-0.002	0	%100
81 GSI-3A	Z	-0.000674	-0.000674	0	%100
82 GSI-3B	Z	-0.000674	-0.000674	0	%100
83 GSIP-1A	Z	-0.001	-0.001	0	%100
84 GSIP-1B	Z	-0.000523	-0.000523	0	%100
85 GSIP-2A	Z	-0.000523	-0.000523	0	%100
86 GSIP-2B	Z	-0.002	-0.002	0	%100
87 GSIP-3A	Z	-0.002	-0.002	0	%100
88 GSIP-3B	Z	-0.001	-0.001	0	%100
89 MP-1	Z	-0.002	-0.002	0	%100
90 MP-1B	Z	-0.002	-0.002	0	%100
91 MP-2	Z	-0.002	-0.002	0	%100
92 MP-3	Z	-0.002	-0.002	0	%100
93 MP-4	Z	-0.002	-0.002	0	%100
94 MP-5	Z	-0.002	-0.002	0	%100
95 MP-5B	Z	-0.002	-0.002	0	%100
96 MP-6	Z	-0.002	-0.002	0	%100
97 MP-7	Z	-0.002	-0.002	0	%100
98 MP-8	Z	-0.002	-0.002	0	%100
99 MP-9	Z	-0.002	-0.002	0	%100
100 MP-9B	Z	-0.002	-0.002	0	%100
101 MP-10	Z	-0.002	-0.002	0	%100
102 MP-11	Z	-0.002	-0.002	0	%100
103 MP-12	Z	-0.002	-0.002	0	%100
104 SA-1	Z	-0.000665	-0.000665	0	%100
105 SA-2	Z	-0.002	-0.002	0	%100
106 SA-3	Z	-0.002	-0.002	0	%100
107 SF1-TH	Z	-0.000539	-0.000539	0	%100
108 SF2-TH	Z	-0.002	-0.002	0	%100
109 TR-1	Z	-0.000546	-0.000546	0	%100
110 TR-2	Z	-0.000546	-0.000546	0	%100
111 TR-3	Z	-0.000546	-0.000546	0	%100
112 TR-4	Z	-0.000546	-0.000546	0	%100
113 TR-5	Z	-0.000196	-0.000196	0	%100
114 TR-6	Z	-0.000196	-0.000196	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

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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.%]	
115	TR-7	Z	-0.00196	-0.00196	0	%100
116	TR-8	Z	-0.00196	-0.00196	0	%100
117	TR-9	Z	-0.00731	-0.00731	0	%100
118	TR-10	Z	-0.00731	-0.00731	0	%100
119	TR-11	Z	-0.00731	-0.00731	0	%100
120	TR-12	Z	-0.00731	-0.00731	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	-0.02	-0.02	0	%100
2	CP-2	X	-0.01	-0.01	0	%100
3	CP-3	X	-0.01	-0.01	0	%100
4	CPT-1	X	-0.00734	-0.00734	0	%100
5	CPT-2	X	-0.00734	-0.00734	0	%100
6	CPT-3	X	-0.00734	-0.00734	0	%100
7	CPT-4	X	-0.00734	-0.00734	0	%100
8	CPT-5	X	-0.01	-0.01	0	%100
9	CPT-6	X	-0.01	-0.01	0	%100
10	CPT-7	X	-0.01	-0.01	0	%100
11	CPT-8	X	-0.01	-0.01	0	%100
12	CPT-9	X	-0.00734	-0.00734	0	%100
13	CPT-10	X	-0.00734	-0.00734	0	%100
14	CPT-11	X	-0.00734	-0.00734	0	%100
15	CPT-12	X	-0.00734	-0.00734	0	%100
16	FF-TH	X	-0.00737	-0.00737	0	%100
17	GSI-1A	X	-0.02	-0.02	0	%100
18	GSI-1B	X	-0.02	-0.02	0	%100
19	GSI-2A	X	-0.00944	-0.00944	0	%100
20	GSI-2B	X	-0.00944	-0.00944	0	%100
21	GSI-3A	X	-0.0086	-0.0086	0	%100
22	GSI-3B	X	-0.0086	-0.0086	0	%100
23	GSIP-1A	X	-0.0074	-0.0074	0	%100
24	GSIP-1B	X	-0.00644	-0.00644	0	%100
25	GSIP-2A	X	-0.00644	-0.00644	0	%100
26	GSIP-2B	X	-0.01	-0.01	0	%100
27	GSIP-3A	X	-0.01	-0.01	0	%100
28	GSIP-3B	X	-0.0074	-0.0074	0	%100
29	MP-1	X	-0.00956	-0.00956	0	%100
30	MP-1B	X	-0.00956	-0.00956	0	%100
31	MP-2	X	-0.00956	-0.00956	0	%100
32	MP-3	X	-0.00956	-0.00956	0	%100
33	MP-4	X	-0.00956	-0.00956	0	%100
34	MP-5	X	-0.00956	-0.00956	0	%100
35	MP-5B	X	-0.00956	-0.00956	0	%100
36	MP-6	X	-0.00956	-0.00956	0	%100
37	MP-7	X	-0.00956	-0.00956	0	%100
38	MP-8	X	-0.00956	-0.00956	0	%100
39	MP-9	X	-0.00956	-0.00956	0	%100
40	MP-9B	X	-0.00956	-0.00956	0	%100
41	MP-10	X	-0.00956	-0.00956	0	%100
42	MP-11	X	-0.00956	-0.00956	0	%100
43	MP-12	X	-0.00956	-0.00956	0	%100
44	SA-1	X	0	0	0	%100
45	SA-2	X	-0.01	-0.01	0	%100
46	SA-3	X	-0.02	-0.02	0	%100
47	SF1-TH	X	-0.00609	-0.00609	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

Apr 23, 2020
 1:36 PM
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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.%]	
48	SF2-TH	X	-0.01	-0.01	0	%100
49	TR-1	X	-0.00464	-0.00464	0	%100
50	TR-2	X	-0.00464	-0.00464	0	%100
51	TR-3	X	-0.00464	-0.00464	0	%100
52	TR-4	X	-0.00464	-0.00464	0	%100
53	TR-5	X	0	0	0	%100
54	TR-6	X	0	0	0	%100
55	TR-7	X	0	0	0	%100
56	TR-8	X	0	0	0	%100
57	TR-9	X	-0.00468	-0.00468	0	%100
58	TR-10	X	-0.00468	-0.00468	0	%100
59	TR-11	X	-0.00468	-0.00468	0	%100
60	TR-12	X	-0.00468	-0.00468	0	%100
61	CP-1	Z	-0.04	-0.04	0	%100
62	CP-2	Z	-0.02	-0.02	0	%100
63	CP-3	Z	-0.02	-0.02	0	%100
64	CPT-1	Z	-0.01	-0.01	0	%100
65	CPT-2	Z	-0.01	-0.01	0	%100
66	CPT-3	Z	-0.01	-0.01	0	%100
67	CPT-4	Z	-0.01	-0.01	0	%100
68	CPT-5	Z	-0.03	-0.03	0	%100
69	CPT-6	Z	-0.03	-0.03	0	%100
70	CPT-7	Z	-0.03	-0.03	0	%100
71	CPT-8	Z	-0.03	-0.03	0	%100
72	CPT-9	Z	-0.01	-0.01	0	%100
73	CPT-10	Z	-0.01	-0.01	0	%100
74	CPT-11	Z	-0.01	-0.01	0	%100
75	CPT-12	Z	-0.01	-0.01	0	%100
76	FF-TH	Z	-0.01	-0.01	0	%100
77	GSI-1A	Z	-0.03	-0.03	0	%100
78	GSI-1B	Z	-0.03	-0.03	0	%100
79	GSI-2A	Z	-0.01	-0.01	0	%100
80	GSI-2B	Z	-0.01	-0.01	0	%100
81	GSI-3A	Z	-0.02	-0.02	0	%100
82	GSI-3B	Z	-0.02	-0.02	0	%100
83	GSIP-1A	Z	-0.01	-0.01	0	%100
84	GSIP-1B	Z	-0.01	-0.01	0	%100
85	GSIP-2A	Z	-0.01	-0.01	0	%100
86	GSIP-2B	Z	-0.02	-0.02	0	%100
87	GSIP-3A	Z	-0.02	-0.02	0	%100
88	GSIP-3B	Z	-0.01	-0.01	0	%100
89	MP-1	Z	-0.02	-0.02	0	%100
90	MP-1B	Z	-0.02	-0.02	0	%100
91	MP-2	Z	-0.02	-0.02	0	%100
92	MP-3	Z	-0.02	-0.02	0	%100
93	MP-4	Z	-0.02	-0.02	0	%100
94	MP-5	Z	-0.02	-0.02	0	%100
95	MP-5B	Z	-0.02	-0.02	0	%100
96	MP-6	Z	-0.02	-0.02	0	%100
97	MP-7	Z	-0.02	-0.02	0	%100
98	MP-8	Z	-0.02	-0.02	0	%100
99	MP-9	Z	-0.02	-0.02	0	%100
100	MP-9B	Z	-0.02	-0.02	0	%100
101	MP-10	Z	-0.02	-0.02	0	%100
102	MP-11	Z	-0.02	-0.02	0	%100
103	MP-12	Z	-0.02	-0.02	0	%100
104	SA-1	Z	0	0	0	%100



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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
105	SA-2	Z	-0.003	-0.003	0	%100
106	SA-3	Z	-0.003	-0.003	0	%100
107	SF1-TH	Z	-0.001	-0.001	0	%100
108	SF2-TH	Z	-0.003	-0.003	0	%100
109	TR-1	Z	-0.00819	-0.00819	0	%100
110	TR-2	Z	-0.00819	-0.00819	0	%100
111	TR-3	Z	-0.00819	-0.00819	0	%100
112	TR-4	Z	-0.00819	-0.00819	0	%100
113	TR-5	Z	0	0	0	%100
114	TR-6	Z	0	0	0	%100
115	TR-7	Z	0	0	0	%100
116	TR-8	Z	0	0	0	%100
117	TR-9	Z	-0.00803	-0.00803	0	%100
118	TR-10	Z	-0.00803	-0.00803	0	%100
119	TR-11	Z	-0.00803	-0.00803	0	%100
120	TR-12	Z	-0.00803	-0.00803	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	-0.004	-0.004	0	%100
2	CP-2	Z	0	0	0	%100
3	CP-3	Z	-0.004	-0.004	0	%100
4	CPT-1	Z	0	0	0	%100
5	CPT-2	Z	0	0	0	%100
6	CPT-3	Z	0	0	0	%100
7	CPT-4	Z	0	0	0	%100
8	CPT-5	Z	-0.003	-0.003	0	%100
9	CPT-6	Z	-0.003	-0.003	0	%100
10	CPT-7	Z	-0.003	-0.003	0	%100
11	CPT-8	Z	-0.003	-0.003	0	%100
12	CPT-9	Z	-0.003	-0.003	0	%100
13	CPT-10	Z	-0.003	-0.003	0	%100
14	CPT-11	Z	-0.003	-0.003	0	%100
15	CPT-12	Z	-0.003	-0.003	0	%100
16	FF-TH	Z	0	0	0	%100
17	GSI-1A	Z	-0.003	-0.003	0	%100
18	GSI-1B	Z	-0.003	-0.003	0	%100
19	GSI-2A	Z	0	0	0	%100
20	GSI-2B	Z	0	0	0	%100
21	GSI-3A	Z	-0.003	-0.003	0	%100
22	GSI-3B	Z	-0.003	-0.003	0	%100
23	GSIP-1A	Z	0	0	0	%100
24	GSIP-1B	Z	-0.002	-0.002	0	%100
25	GSIP-2A	Z	-0.002	-0.002	0	%100
26	GSIP-2B	Z	-0.002	-0.002	0	%100
27	GSIP-3A	Z	-0.002	-0.002	0	%100
28	GSIP-3B	Z	0	0	0	%100
29	MP-1	Z	-0.002	-0.002	0	%100
30	MP-1B	Z	-0.002	-0.002	0	%100
31	MP-2	Z	-0.002	-0.002	0	%100
32	MP-3	Z	-0.002	-0.002	0	%100
33	MP-4	Z	-0.002	-0.002	0	%100
34	MP-5	Z	-0.002	-0.002	0	%100
35	MP-5B	Z	-0.002	-0.002	0	%100
36	MP-6	Z	-0.002	-0.002	0	%100
37	MP-7	Z	-0.002	-0.002	0	%100



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.%]	
38	MP-8	Z	-0.002	-0.002	0	%100
39	MP-9	Z	-0.002	-0.002	0	%100
40	MP-9B	Z	-0.002	-0.002	0	%100
41	MP-10	Z	-0.002	-0.002	0	%100
42	MP-11	Z	-0.002	-0.002	0	%100
43	MP-12	Z	-0.002	-0.002	0	%100
44	SA-1	Z	-0.002	-0.002	0	%100
45	SA-2	Z	-0.004	-0.004	0	%100
46	SA-3	Z	-0.002	-0.002	0	%100
47	SF1-TH	Z	-0.003	-0.003	0	%100
48	SF2-TH	Z	-0.003	-0.003	0	%100
49	TR-1	Z	-0.001	-0.001	0	%100
50	TR-2	Z	-0.001	-0.001	0	%100
51	TR-3	Z	-0.001	-0.001	0	%100
52	TR-4	Z	-0.001	-0.001	0	%100
53	TR-5	Z	-0.00535	-0.00535	0	%100
54	TR-6	Z	-0.00535	-0.00535	0	%100
55	TR-7	Z	-0.00535	-0.00535	0	%100
56	TR-8	Z	-0.00535	-0.00535	0	%100
57	TR-9	Z	-0.00535	-0.00535	0	%100
58	TR-10	Z	-0.00535	-0.00535	0	%100
59	TR-11	Z	-0.00535	-0.00535	0	%100
60	TR-12	Z	-0.00535	-0.00535	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	.001	.001	0	%100
2	CP-2	X	.001	.001	0	%100
3	CP-3	X	.002	.002	0	%100
4	CPT-1	X	.000734	.000734	0	%100
5	CPT-2	X	.000734	.000734	0	%100
6	CPT-3	X	.000734	.000734	0	%100
7	CPT-4	X	.000734	.000734	0	%100
8	CPT-5	X	.000734	.000734	0	%100
9	CPT-6	X	.000734	.000734	0	%100
10	CPT-7	X	.000734	.000734	0	%100
11	CPT-8	X	.000734	.000734	0	%100
12	CPT-9	X	.001	.001	0	%100
13	CPT-10	X	.001	.001	0	%100
14	CPT-11	X	.001	.001	0	%100
15	CPT-12	X	.001	.001	0	%100
16	FF-TH	X	.000737	.000737	0	%100
17	GSI-1A	X	.00086	.00086	0	%100
18	GSI-1B	X	.00086	.00086	0	%100
19	GSI-2A	X	.000944	.000944	0	%100
20	GSI-2B	X	.000944	.000944	0	%100
21	GSI-3A	X	.002	.002	0	%100
22	GSI-3B	X	.002	.002	0	%100
23	GSIP-1A	X	.00074	.00074	0	%100
24	GSIP-1B	X	.001	.001	0	%100
25	GSIP-2A	X	.001	.001	0	%100
26	GSIP-2B	X	.000644	.000644	0	%100
27	GSIP-3A	X	.000644	.000644	0	%100
28	GSIP-3B	X	.00074	.00074	0	%100
29	MP-1	X	.000956	.000956	0	%100
30	MP-1B	X	.000956	.000956	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
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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.%]	
31	MP-2	X	.000956	.000956	0	%100
32	MP-3	X	.000956	.000956	0	%100
33	MP-4	X	.000956	.000956	0	%100
34	MP-5	X	.000956	.000956	0	%100
35	MP-5B	X	.000956	.000956	0	%100
36	MP-6	X	.000956	.000956	0	%100
37	MP-7	X	.000956	.000956	0	%100
38	MP-8	X	.000956	.000956	0	%100
39	MP-9	X	.000956	.000956	0	%100
40	MP-9B	X	.000956	.000956	0	%100
41	MP-10	X	.000956	.000956	0	%100
42	MP-11	X	.000956	.000956	0	%100
43	MP-12	X	.000956	.000956	0	%100
44	SA-1	X	.002	.002	0	%100
45	SA-2	X	.001	.001	0	%100
46	SA-3	X	0	0	0	%100
47	SF1-TH	X	.001	.001	0	%100
48	SF2-TH	X	.000609	.000609	0	%100
49	TR-1	X	.000464	.000464	0	%100
50	TR-2	X	.000464	.000464	0	%100
51	TR-3	X	.000464	.000464	0	%100
52	TR-4	X	.000464	.000464	0	%100
53	TR-5	X	.000468	.000468	0	%100
54	TR-6	X	.000468	.000468	0	%100
55	TR-7	X	.000468	.000468	0	%100
56	TR-8	X	.000468	.000468	0	%100
57	TR-9	X	0	0	0	%100
58	TR-10	X	0	0	0	%100
59	TR-11	X	0	0	0	%100
60	TR-12	X	0	0	0	%100
61	CP-1	Z	-.002	-.002	0	%100
62	CP-2	Z	-.002	-.002	0	%100
63	CP-3	Z	-.004	-.004	0	%100
64	CPT-1	Z	-.001	-.001	0	%100
65	CPT-2	Z	-.001	-.001	0	%100
66	CPT-3	Z	-.001	-.001	0	%100
67	CPT-4	Z	-.001	-.001	0	%100
68	CPT-5	Z	-.001	-.001	0	%100
69	CPT-6	Z	-.001	-.001	0	%100
70	CPT-7	Z	-.001	-.001	0	%100
71	CPT-8	Z	-.001	-.001	0	%100
72	CPT-9	Z	-.003	-.003	0	%100
73	CPT-10	Z	-.003	-.003	0	%100
74	CPT-11	Z	-.003	-.003	0	%100
75	CPT-12	Z	-.003	-.003	0	%100
76	FF-TH	Z	-.001	-.001	0	%100
77	GSI-1A	Z	-.002	-.002	0	%100
78	GSI-1B	Z	-.002	-.002	0	%100
79	GSI-2A	Z	-.001	-.001	0	%100
80	GSI-2B	Z	-.001	-.001	0	%100
81	GSI-3A	Z	-.003	-.003	0	%100
82	GSI-3B	Z	-.003	-.003	0	%100
83	GSIP-1A	Z	-.001	-.001	0	%100
84	GSIP-1B	Z	-.002	-.002	0	%100
85	GSIP-2A	Z	-.002	-.002	0	%100
86	GSIP-2B	Z	-.001	-.001	0	%100
87	GSIP-3A	Z	-.001	-.001	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

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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.%]	
88	GSIP-3B	Z	-.001	-.001	0	%100
89	MP-1	Z	-.002	-.002	0	%100
90	MP-1B	Z	-.002	-.002	0	%100
91	MP-2	Z	-.002	-.002	0	%100
92	MP-3	Z	-.002	-.002	0	%100
93	MP-4	Z	-.002	-.002	0	%100
94	MP-5	Z	-.002	-.002	0	%100
95	MP-5B	Z	-.002	-.002	0	%100
96	MP-6	Z	-.002	-.002	0	%100
97	MP-7	Z	-.002	-.002	0	%100
98	MP-8	Z	-.002	-.002	0	%100
99	MP-9	Z	-.002	-.002	0	%100
100	MP-9B	Z	-.002	-.002	0	%100
101	MP-10	Z	-.002	-.002	0	%100
102	MP-11	Z	-.002	-.002	0	%100
103	MP-12	Z	-.002	-.002	0	%100
104	SA-1	Z	-.003	-.003	0	%100
105	SA-2	Z	-.003	-.003	0	%100
106	SA-3	Z	0	0	0	%100
107	SF1-TH	Z	-.003	-.003	0	%100
108	SF2-TH	Z	-.001	-.001	0	%100
109	TR-1	Z	-.000819	-.000819	0	%100
110	TR-2	Z	-.000819	-.000819	0	%100
111	TR-3	Z	-.000819	-.000819	0	%100
112	TR-4	Z	-.000819	-.000819	0	%100
113	TR-5	Z	-.000803	-.000803	0	%100
114	TR-6	Z	-.000803	-.000803	0	%100
115	TR-7	Z	-.000803	-.000803	0	%100
116	TR-8	Z	-.000803	-.000803	0	%100
117	TR-9	Z	0	0	0	%100
118	TR-10	Z	0	0	0	%100
119	TR-11	Z	0	0	0	%100
120	TR-12	Z	0	0	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	X	.000876	.000876	0	%100
2	CP-2	X	.002	.002	0	%100
3	CP-3	X	.003	.003	0	%100
4	CPT-1	X	.001	.001	0	%100
5	CPT-2	X	.001	.001	0	%100
6	CPT-3	X	.001	.001	0	%100
7	CPT-4	X	.001	.001	0	%100
8	CPT-5	X	.000537	.000537	0	%100
9	CPT-6	X	.000537	.000537	0	%100
10	CPT-7	X	.000537	.000537	0	%100
11	CPT-8	X	.000537	.000537	0	%100
12	CPT-9	X	.002	.002	0	%100
13	CPT-10	X	.002	.002	0	%100
14	CPT-11	X	.002	.002	0	%100
15	CPT-12	X	.002	.002	0	%100
16	FF-TH	X	.001	.001	0	%100
17	GSI-1A	X	.00063	.00063	0	%100
18	GSI-1B	X	.00063	.00063	0	%100
19	GSI-2A	X	.002	.002	0	%100
20	GSI-2B	X	.002	.002	0	%100



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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
21	GSI-3A	X	.002	.002	0	%100
22	GSI-3B	X	.002	.002	0	%100
23	GSIP-1A	X	.001	.001	0	%100
24	GSIP-1B	X	.002	.002	0	%100
25	GSIP-2A	X	.002	.002	0	%100
26	GSIP-2B	X	.000471	.000471	0	%100
27	GSIP-3A	X	.000471	.000471	0	%100
28	GSIP-3B	X	.001	.001	0	%100
29	MP-1	X	.001	.001	0	%100
30	MP-1B	X	.001	.001	0	%100
31	MP-2	X	.001	.001	0	%100
32	MP-3	X	.001	.001	0	%100
33	MP-4	X	.001	.001	0	%100
34	MP-5	X	.001	.001	0	%100
35	MP-5B	X	.001	.001	0	%100
36	MP-6	X	.001	.001	0	%100
37	MP-7	X	.001	.001	0	%100
38	MP-8	X	.001	.001	0	%100
39	MP-9	X	.001	.001	0	%100
40	MP-9B	X	.001	.001	0	%100
41	MP-10	X	.001	.001	0	%100
42	MP-11	X	.001	.001	0	%100
43	MP-12	X	.001	.001	0	%100
44	SA-1	X	.003	.003	0	%100
45	SA-2	X	.002	.002	0	%100
46	SA-3	X	.000735	.000735	0	%100
47	SF1-TH	X	.002	.002	0	%100
48	SF2-TH	X	.000446	.000446	0	%100
49	TR-1	X	.000535	.000535	0	%100
50	TR-2	X	.000535	.000535	0	%100
51	TR-3	X	.000535	.000535	0	%100
52	TR-4	X	.000535	.000535	0	%100
53	TR-5	X	.000739	.000739	0	%100
54	TR-6	X	.000739	.000739	0	%100
55	TR-7	X	.000739	.000739	0	%100
56	TR-8	X	.000739	.000739	0	%100
57	TR-9	X	.000198	.000198	0	%100
58	TR-10	X	.000198	.000198	0	%100
59	TR-11	X	.000198	.000198	0	%100
60	TR-12	X	.000198	.000198	0	%100
61	CP-1	Z	-.000876	-.000876	0	%100
62	CP-2	Z	-.002	-.002	0	%100
63	CP-3	Z	-.003	-.003	0	%100
64	CPT-1	Z	-.001	-.001	0	%100
65	CPT-2	Z	-.001	-.001	0	%100
66	CPT-3	Z	-.001	-.001	0	%100
67	CPT-4	Z	-.001	-.001	0	%100
68	CPT-5	Z	-.000537	-.000537	0	%100
69	CPT-6	Z	-.000537	-.000537	0	%100
70	CPT-7	Z	-.000537	-.000537	0	%100
71	CPT-8	Z	-.000537	-.000537	0	%100
72	CPT-9	Z	-.002	-.002	0	%100
73	CPT-10	Z	-.002	-.002	0	%100
74	CPT-11	Z	-.002	-.002	0	%100
75	CPT-12	Z	-.002	-.002	0	%100
76	FF-TH	Z	-.001	-.001	0	%100
77	GSI-1A	Z	-.000674	-.000674	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

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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.%]	
78	GSI-1B	Z	-.000674	-.000674	0	%100
79	GSI-2A	Z	-.002	-.002	0	%100
80	GSI-2B	Z	-.002	-.002	0	%100
81	GSI-3A	Z	-.003	-.003	0	%100
82	GSI-3B	Z	-.003	-.003	0	%100
83	GSIP-1A	Z	-.001	-.001	0	%100
84	GSIP-1B	Z	-.002	-.002	0	%100
85	GSIP-2A	Z	-.002	-.002	0	%100
86	GSIP-2B	Z	-.000523	-.000523	0	%100
87	GSIP-3A	Z	-.000523	-.000523	0	%100
88	GSIP-3B	Z	-.001	-.001	0	%100
89	MP-1	Z	-.002	-.002	0	%100
90	MP-1B	Z	-.002	-.002	0	%100
91	MP-2	Z	-.002	-.002	0	%100
92	MP-3	Z	-.002	-.002	0	%100
93	MP-4	Z	-.002	-.002	0	%100
94	MP-5	Z	-.002	-.002	0	%100
95	MP-5B	Z	-.002	-.002	0	%100
96	MP-6	Z	-.002	-.002	0	%100
97	MP-7	Z	-.002	-.002	0	%100
98	MP-8	Z	-.002	-.002	0	%100
99	MP-9	Z	-.002	-.002	0	%100
100	MP-9B	Z	-.002	-.002	0	%100
101	MP-10	Z	-.002	-.002	0	%100
102	MP-11	Z	-.002	-.002	0	%100
103	MP-12	Z	-.002	-.002	0	%100
104	SA-1	Z	-.002	-.002	0	%100
105	SA-2	Z	-.002	-.002	0	%100
106	SA-3	Z	-.000665	-.000665	0	%100
107	SF1-TH	Z	-.002	-.002	0	%100
108	SF2-TH	Z	-.000539	-.000539	0	%100
109	TR-1	Z	-.000546	-.000546	0	%100
110	TR-2	Z	-.000546	-.000546	0	%100
111	TR-3	Z	-.000546	-.000546	0	%100
112	TR-4	Z	-.000546	-.000546	0	%100
113	TR-5	Z	-.000731	-.000731	0	%100
114	TR-6	Z	-.000731	-.000731	0	%100
115	TR-7	Z	-.000731	-.000731	0	%100
116	TR-8	Z	-.000731	-.000731	0	%100
117	TR-9	Z	-.000196	-.000196	0	%100
118	TR-10	Z	-.000196	-.000196	0	%100
119	TR-11	Z	-.000196	-.000196	0	%100
120	TR-12	Z	-.000196	-.000196	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	.004	.004	0	%100
3	CP-3	X	.004	.004	0	%100
4	CPT-1	X	.002	.002	0	%100
5	CPT-2	X	.002	.002	0	%100
6	CPT-3	X	.002	.002	0	%100
7	CPT-4	X	.002	.002	0	%100
8	CPT-5	X	0	0	0	%100
9	CPT-6	X	0	0	0	%100
10	CPT-7	X	0	0	0	%100



Company : Tower Engineering Professionals
 Designer : DC
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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.%]	
11	CPT-8	X	0	0	%100	
12	CPT-9	X	.002	.002	0	%100
13	CPT-10	X	.002	.002	0	%100
14	CPT-11	X	.002	.002	0	%100
15	CPT-12	X	.002	.002	0	%100
16	FF-TH	X	.002	.002	0	%100
17	GSI-1A	X	0	0	0	%100
18	GSI-1B	X	0	0	0	%100
19	GSI-2A	X	.003	.003	0	%100
20	GSI-2B	X	.003	.003	0	%100
21	GSI-3A	X	.003	.003	0	%100
22	GSI-3B	X	.003	.003	0	%100
23	GSIP-1A	X	.002	.002	0	%100
24	GSIP-1B	X	.002	.002	0	%100
25	GSIP-2A	X	.002	.002	0	%100
26	GSIP-2B	X	0	0	0	%100
27	GSIP-3A	X	0	0	0	%100
28	GSIP-3B	X	.002	.002	0	%100
29	MP-1	X	.002	.002	0	%100
30	MP-1B	X	.002	.002	0	%100
31	MP-2	X	.002	.002	0	%100
32	MP-3	X	.002	.002	0	%100
33	MP-4	X	.002	.002	0	%100
34	MP-5	X	.002	.002	0	%100
35	MP-5B	X	.002	.002	0	%100
36	MP-6	X	.002	.002	0	%100
37	MP-7	X	.002	.002	0	%100
38	MP-8	X	.002	.002	0	%100
39	MP-9	X	.002	.002	0	%100
40	MP-9B	X	.002	.002	0	%100
41	MP-10	X	.002	.002	0	%100
42	MP-11	X	.002	.002	0	%100
43	MP-12	X	.002	.002	0	%100
44	SA-1	X	.003	.003	0	%100
45	SA-2	X	.001	.001	0	%100
46	SA-3	X	.002	.002	0	%100
47	SF1-TH	X	.002	.002	0	%100
48	SF2-TH	X	0	0	0	%100
49	TR-1	X	.000464	.000464	0	%100
50	TR-2	X	.000464	.000464	0	%100
51	TR-3	X	.000464	.000464	0	%100
52	TR-4	X	.000464	.000464	0	%100
53	TR-5	X	.000936	.000936	0	%100
54	TR-6	X	.000936	.000936	0	%100
55	TR-7	X	.000936	.000936	0	%100
56	TR-8	X	.000936	.000936	0	%100
57	TR-9	X	.000468	.000468	0	%100
58	TR-10	X	.000468	.000468	0	%100
59	TR-11	X	.000468	.000468	0	%100
60	TR-12	X	.000468	.000468	0	%100
61	CP-1	Z	0	0	0	%100
62	CP-2	Z	-.002	-.002	0	%100
63	CP-3	Z	-.002	-.002	0	%100
64	CPT-1	Z	-.001	-.001	0	%100
65	CPT-2	Z	-.001	-.001	0	%100
66	CPT-3	Z	-.001	-.001	0	%100
67	CPT-4	Z	-.001	-.001	0	%100



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 Designer : DC
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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.%]	
68	CPT-5	Z	0	0	0	%100
69	CPT-6	Z	0	0	0	%100
70	CPT-7	Z	0	0	0	%100
71	CPT-8	Z	0	0	0	%100
72	CPT-9	Z	-.001	-.001	0	%100
73	CPT-10	Z	-.001	-.001	0	%100
74	CPT-11	Z	-.001	-.001	0	%100
75	CPT-12	Z	-.001	-.001	0	%100
76	FF-TH	Z	-.001	-.001	0	%100
77	GSI-1A	Z	0	0	0	%100
78	GSI-1B	Z	0	0	0	%100
79	GSI-2A	Z	-.001	-.001	0	%100
80	GSI-2B	Z	-.001	-.001	0	%100
81	GSI-3A	Z	-.002	-.002	0	%100
82	GSI-3B	Z	-.002	-.002	0	%100
83	GSIP-1A	Z	-.001	-.001	0	%100
84	GSIP-1B	Z	-.001	-.001	0	%100
85	GSIP-2A	Z	-.001	-.001	0	%100
86	GSIP-2B	Z	0	0	0	%100
87	GSIP-3A	Z	0	0	0	%100
88	GSIP-3B	Z	-.001	-.001	0	%100
89	MP-1	Z	-.001	-.001	0	%100
90	MP-1B	Z	-.001	-.001	0	%100
91	MP-2	Z	-.001	-.001	0	%100
92	MP-3	Z	-.001	-.001	0	%100
93	MP-4	Z	-.001	-.001	0	%100
94	MP-5	Z	-.001	-.001	0	%100
95	MP-5B	Z	-.001	-.001	0	%100
96	MP-6	Z	-.001	-.001	0	%100
97	MP-7	Z	-.001	-.001	0	%100
98	MP-8	Z	-.001	-.001	0	%100
99	MP-9	Z	-.001	-.001	0	%100
100	MP-9B	Z	-.001	-.001	0	%100
101	MP-10	Z	-.001	-.001	0	%100
102	MP-11	Z	-.001	-.001	0	%100
103	MP-12	Z	-.001	-.001	0	%100
104	SA-1	Z	-.002	-.002	0	%100
105	SA-2	Z	-.001	-.001	0	%100
106	SA-3	Z	-.000908	-.000908	0	%100
107	SF1-TH	Z	-.001	-.001	0	%100
108	SF2-TH	Z	0	0	0	%100
109	TR-1	Z	-.000273	-.000273	0	%100
110	TR-2	Z	-.000273	-.000273	0	%100
111	TR-3	Z	-.000273	-.000273	0	%100
112	TR-4	Z	-.000273	-.000273	0	%100
113	TR-5	Z	-.000535	-.000535	0	%100
114	TR-6	Z	-.000535	-.000535	0	%100
115	TR-7	Z	-.000535	-.000535	0	%100
116	TR-8	Z	-.000535	-.000535	0	%100
117	TR-9	Z	-.000268	-.000268	0	%100
118	TR-10	Z	-.000268	-.000268	0	%100
119	TR-11	Z	-.000268	-.000268	0	%100
120	TR-12	Z	-.000268	-.000268	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.%]
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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.%]	
1	CP-1	X	.005	.005	0	%100
2	CP-2	X	.005	.005	0	%100
3	CP-3	X	.005	.005	0	%100
4	CPT-1	X	.003	.003	0	%100
5	CPT-2	X	.003	.003	0	%100
6	CPT-3	X	.003	.003	0	%100
7	CPT-4	X	.003	.003	0	%100
8	CPT-5	X	.003	.003	0	%100
9	CPT-6	X	.003	.003	0	%100
10	CPT-7	X	.003	.003	0	%100
11	CPT-8	X	.003	.003	0	%100
12	CPT-9	X	.003	.003	0	%100
13	CPT-10	X	.003	.003	0	%100
14	CPT-11	X	.003	.003	0	%100
15	CPT-12	X	.003	.003	0	%100
16	FF-TH	X	.003	.003	0	%100
17	GSI-1A	X	.003	.003	0	%100
18	GSI-1B	X	.003	.003	0	%100
19	GSI-2A	X	.004	.004	0	%100
20	GSI-2B	X	.004	.004	0	%100
21	GSI-3A	X	.003	.003	0	%100
22	GSI-3B	X	.003	.003	0	%100
23	GSIP-1A	X	.003	.003	0	%100
24	GSIP-1B	X	.003	.003	0	%100
25	GSIP-2A	X	.003	.003	0	%100
26	GSIP-2B	X	.003	.003	0	%100
27	GSIP-3A	X	.003	.003	0	%100
28	GSIP-3B	X	.003	.003	0	%100
29	MP-1	X	.002	.002	0	%100
30	MP-1B	X	.002	.002	0	%100
31	MP-2	X	.002	.002	0	%100
32	MP-3	X	.002	.002	0	%100
33	MP-4	X	.002	.002	0	%100
34	MP-5	X	.002	.002	0	%100
35	MP-5B	X	.002	.002	0	%100
36	MP-6	X	.002	.002	0	%100
37	MP-7	X	.002	.002	0	%100
38	MP-8	X	.002	.002	0	%100
39	MP-9	X	.002	.002	0	%100
40	MP-9B	X	.002	.002	0	%100
41	MP-10	X	.002	.002	0	%100
42	MP-11	X	.002	.002	0	%100
43	MP-12	X	.002	.002	0	%100
44	SA-1	X	.004	.004	0	%100
45	SA-2	X	.003	.003	0	%100
46	SA-3	X	.004	.004	0	%100
47	SF1-TH	X	.002	.002	0	%100
48	SF2-TH	X	.002	.002	0	%100
49	TR-1	X	.001	.001	0	%100
50	TR-2	X	.001	.001	0	%100
51	TR-3	X	.001	.001	0	%100
52	TR-4	X	.001	.001	0	%100
53	TR-5	X	.001	.001	0	%100
54	TR-6	X	.001	.001	0	%100
55	TR-7	X	.001	.001	0	%100
56	TR-8	X	.001	.001	0	%100
57	TR-9	X	.001	.001	0	%100



Company : Tower Engineering Professionals
 Designer : DC
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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.%]	
58	TR-10	X	.001	.001	0	%100
59	TR-11	X	.001	.001	0	%100
60	TR-12	X	.001	.001	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	.004	.004	0	%100
2	CP-2	X	.004	.004	0	%100
3	CP-3	X	0	0	0	%100
4	CPT-1	X	.002	.002	0	%100
5	CPT-2	X	.002	.002	0	%100
6	CPT-3	X	.002	.002	0	%100
7	CPT-4	X	.002	.002	0	%100
8	CPT-5	X	.002	.002	0	%100
9	CPT-6	X	.002	.002	0	%100
10	CPT-7	X	.002	.002	0	%100
11	CPT-8	X	.002	.002	0	%100
12	CPT-9	X	0	0	0	%100
13	CPT-10	X	0	0	0	%100
14	CPT-11	X	0	0	0	%100
15	CPT-12	X	0	0	0	%100
16	FF-TH	X	.002	.002	0	%100
17	GSI-1A	X	.003	.003	0	%100
18	GSI-1B	X	.003	.003	0	%100
19	GSI-2A	X	.003	.003	0	%100
20	GSI-2B	X	.003	.003	0	%100
21	GSI-3A	X	0	0	0	%100
22	GSI-3B	X	0	0	0	%100
23	GSIP-1A	X	.002	.002	0	%100
24	GSIP-1B	X	0	0	0	%100
25	GSIP-2A	X	0	0	0	%100
26	GSIP-2B	X	.002	.002	0	%100
27	GSIP-3A	X	.002	.002	0	%100
28	GSIP-3B	X	.002	.002	0	%100
29	MP-1	X	.002	.002	0	%100
30	MP-1B	X	.002	.002	0	%100
31	MP-2	X	.002	.002	0	%100
32	MP-3	X	.002	.002	0	%100
33	MP-4	X	.002	.002	0	%100
34	MP-5	X	.002	.002	0	%100
35	MP-5B	X	.002	.002	0	%100
36	MP-6	X	.002	.002	0	%100
37	MP-7	X	.002	.002	0	%100
38	MP-8	X	.002	.002	0	%100
39	MP-9	X	.002	.002	0	%100
40	MP-9B	X	.002	.002	0	%100
41	MP-10	X	.002	.002	0	%100
42	MP-11	X	.002	.002	0	%100
43	MP-12	X	.002	.002	0	%100
44	SA-1	X	.002	.002	0	%100
45	SA-2	X	.001	.001	0	%100
46	SA-3	X	.003	.003	0	%100
47	SF1-TH	X	0	0	0	%100
48	SF2-TH	X	.002	.002	0	%100
49	TR-1	X	.000464	.000464	0	%100
50	TR-2	X	.000464	.000464	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

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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.%]	
51	TR-3	X	.000464	.000464	0	%100
52	TR-4	X	.000464	.000464	0	%100
53	TR-5	X	.000468	.000468	0	%100
54	TR-6	X	.000468	.000468	0	%100
55	TR-7	X	.000468	.000468	0	%100
56	TR-8	X	.000468	.000468	0	%100
57	TR-9	X	.000936	.000936	0	%100
58	TR-10	X	.000936	.000936	0	%100
59	TR-11	X	.000936	.000936	0	%100
60	TR-12	X	.000936	.000936	0	%100
61	CP-1	Z	.002	.002	0	%100
62	CP-2	Z	.002	.002	0	%100
63	CP-3	Z	0	0	0	%100
64	CPT-1	Z	.001	.001	0	%100
65	CPT-2	Z	.001	.001	0	%100
66	CPT-3	Z	.001	.001	0	%100
67	CPT-4	Z	.001	.001	0	%100
68	CPT-5	Z	.001	.001	0	%100
69	CPT-6	Z	.001	.001	0	%100
70	CPT-7	Z	.001	.001	0	%100
71	CPT-8	Z	.001	.001	0	%100
72	CPT-9	Z	0	0	0	%100
73	CPT-10	Z	0	0	0	%100
74	CPT-11	Z	0	0	0	%100
75	CPT-12	Z	0	0	0	%100
76	FF-TH	Z	.001	.001	0	%100
77	GSI-1A	Z	.002	.002	0	%100
78	GSI-1B	Z	.002	.002	0	%100
79	GSI-2A	Z	.001	.001	0	%100
80	GSI-2B	Z	.001	.001	0	%100
81	GSI-3A	Z	0	0	0	%100
82	GSI-3B	Z	0	0	0	%100
83	GSIP-1A	Z	.001	.001	0	%100
84	GSIP-1B	Z	0	0	0	%100
85	GSIP-2A	Z	0	0	0	%100
86	GSIP-2B	Z	.001	.001	0	%100
87	GSIP-3A	Z	.001	.001	0	%100
88	GSIP-3B	Z	.001	.001	0	%100
89	MP-1	Z	.001	.001	0	%100
90	MP-1B	Z	.001	.001	0	%100
91	MP-2	Z	.001	.001	0	%100
92	MP-3	Z	.001	.001	0	%100
93	MP-4	Z	.001	.001	0	%100
94	MP-5	Z	.001	.001	0	%100
95	MP-5B	Z	.001	.001	0	%100
96	MP-6	Z	.001	.001	0	%100
97	MP-7	Z	.001	.001	0	%100
98	MP-8	Z	.001	.001	0	%100
99	MP-9	Z	.001	.001	0	%100
100	MP-9B	Z	.001	.001	0	%100
101	MP-10	Z	.001	.001	0	%100
102	MP-11	Z	.001	.001	0	%100
103	MP-12	Z	.001	.001	0	%100
104	SA-1	Z	.000908	.000908	0	%100
105	SA-2	Z	.001	.001	0	%100
106	SA-3	Z	.002	.002	0	%100
107	SF1-TH	Z	0	0	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
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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.%]	
108	SF2-TH	Z	.001	.001	0	%100
109	TR-1	Z	.000273	.000273	0	%100
110	TR-2	Z	.000273	.000273	0	%100
111	TR-3	Z	.000273	.000273	0	%100
112	TR-4	Z	.000273	.000273	0	%100
113	TR-5	Z	.000268	.000268	0	%100
114	TR-6	Z	.000268	.000268	0	%100
115	TR-7	Z	.000268	.000268	0	%100
116	TR-8	Z	.000268	.000268	0	%100
117	TR-9	Z	.000535	.000535	0	%100
118	TR-10	Z	.000535	.000535	0	%100
119	TR-11	Z	.000535	.000535	0	%100
120	TR-12	Z	.000535	.000535	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	.003	.003	0	%100
2	CP-2	X	.002	.002	0	%100
3	CP-3	X	.000876	.000876	0	%100
4	CPT-1	X	.001	.001	0	%100
5	CPT-2	X	.001	.001	0	%100
6	CPT-3	X	.001	.001	0	%100
7	CPT-4	X	.001	.001	0	%100
8	CPT-5	X	.002	.002	0	%100
9	CPT-6	X	.002	.002	0	%100
10	CPT-7	X	.002	.002	0	%100
11	CPT-8	X	.002	.002	0	%100
12	CPT-9	X	.000537	.000537	0	%100
13	CPT-10	X	.000537	.000537	0	%100
14	CPT-11	X	.000537	.000537	0	%100
15	CPT-12	X	.000537	.000537	0	%100
16	FF-TH	X	.001	.001	0	%100
17	GSI-1A	X	.002	.002	0	%100
18	GSI-1B	X	.002	.002	0	%100
19	GSI-2A	X	.002	.002	0	%100
20	GSI-2B	X	.002	.002	0	%100
21	GSI-3A	X	.00063	.00063	0	%100
22	GSI-3B	X	.00063	.00063	0	%100
23	GSIP-1A	X	.001	.001	0	%100
24	GSIP-1B	X	.000471	.000471	0	%100
25	GSIP-2A	X	.000471	.000471	0	%100
26	GSIP-2B	X	.002	.002	0	%100
27	GSIP-3A	X	.002	.002	0	%100
28	GSIP-3B	X	.001	.001	0	%100
29	MP-1	X	.001	.001	0	%100
30	MP-1B	X	.001	.001	0	%100
31	MP-2	X	.001	.001	0	%100
32	MP-3	X	.001	.001	0	%100
33	MP-4	X	.001	.001	0	%100
34	MP-5	X	.001	.001	0	%100
35	MP-5B	X	.001	.001	0	%100
36	MP-6	X	.001	.001	0	%100
37	MP-7	X	.001	.001	0	%100
38	MP-8	X	.001	.001	0	%100
39	MP-9	X	.001	.001	0	%100
40	MP-9B	X	.001	.001	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

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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.%]	
41	MP-10	X	.001	.001	0	%100
42	MP-11	X	.001	.001	0	%100
43	MP-12	X	.001	.001	0	%100
44	SA-1	X	.000735	.000735	0	%100
45	SA-2	X	.002	.002	0	%100
46	SA-3	X	.003	.003	0	%100
47	SF1-TH	X	.000446	.000446	0	%100
48	SF2-TH	X	.002	.002	0	%100
49	TR-1	X	.000535	.000535	0	%100
50	TR-2	X	.000535	.000535	0	%100
51	TR-3	X	.000535	.000535	0	%100
52	TR-4	X	.000535	.000535	0	%100
53	TR-5	X	.000198	.000198	0	%100
54	TR-6	X	.000198	.000198	0	%100
55	TR-7	X	.000198	.000198	0	%100
56	TR-8	X	.000198	.000198	0	%100
57	TR-9	X	.000739	.000739	0	%100
58	TR-10	X	.000739	.000739	0	%100
59	TR-11	X	.000739	.000739	0	%100
60	TR-12	X	.000739	.000739	0	%100
61	CP-1	Z	.003	.003	0	%100
62	CP-2	Z	.002	.002	0	%100
63	CP-3	Z	.000876	.000876	0	%100
64	CPT-1	Z	.001	.001	0	%100
65	CPT-2	Z	.001	.001	0	%100
66	CPT-3	Z	.001	.001	0	%100
67	CPT-4	Z	.001	.001	0	%100
68	CPT-5	Z	.002	.002	0	%100
69	CPT-6	Z	.002	.002	0	%100
70	CPT-7	Z	.002	.002	0	%100
71	CPT-8	Z	.002	.002	0	%100
72	CPT-9	Z	.000537	.000537	0	%100
73	CPT-10	Z	.000537	.000537	0	%100
74	CPT-11	Z	.000537	.000537	0	%100
75	CPT-12	Z	.000537	.000537	0	%100
76	FF-TH	Z	.001	.001	0	%100
77	GSI-1A	Z	.003	.003	0	%100
78	GSI-1B	Z	.003	.003	0	%100
79	GSI-2A	Z	.002	.002	0	%100
80	GSI-2B	Z	.002	.002	0	%100
81	GSI-3A	Z	.000674	.000674	0	%100
82	GSI-3B	Z	.000674	.000674	0	%100
83	GSIP-1A	Z	.001	.001	0	%100
84	GSIP-1B	Z	.000523	.000523	0	%100
85	GSIP-2A	Z	.000523	.000523	0	%100
86	GSIP-2B	Z	.002	.002	0	%100
87	GSIP-3A	Z	.002	.002	0	%100
88	GSIP-3B	Z	.001	.001	0	%100
89	MP-1	Z	.002	.002	0	%100
90	MP-1B	Z	.002	.002	0	%100
91	MP-2	Z	.002	.002	0	%100
92	MP-3	Z	.002	.002	0	%100
93	MP-4	Z	.002	.002	0	%100
94	MP-5	Z	.002	.002	0	%100
95	MP-5B	Z	.002	.002	0	%100
96	MP-6	Z	.002	.002	0	%100
97	MP-7	Z	.002	.002	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

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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.%]	
98	MP-8	Z	.002	.002	0	%100
99	MP-9	Z	.002	.002	0	%100
100	MP-9B	Z	.002	.002	0	%100
101	MP-10	Z	.002	.002	0	%100
102	MP-11	Z	.002	.002	0	%100
103	MP-12	Z	.002	.002	0	%100
104	SA-1	Z	.000665	.000665	0	%100
105	SA-2	Z	.002	.002	0	%100
106	SA-3	Z	.002	.002	0	%100
107	SF1-TH	Z	.000539	.000539	0	%100
108	SF2-TH	Z	.002	.002	0	%100
109	TR-1	Z	.000546	.000546	0	%100
110	TR-2	Z	.000546	.000546	0	%100
111	TR-3	Z	.000546	.000546	0	%100
112	TR-4	Z	.000546	.000546	0	%100
113	TR-5	Z	.000196	.000196	0	%100
114	TR-6	Z	.000196	.000196	0	%100
115	TR-7	Z	.000196	.000196	0	%100
116	TR-8	Z	.000196	.000196	0	%100
117	TR-9	Z	.000731	.000731	0	%100
118	TR-10	Z	.000731	.000731	0	%100
119	TR-11	Z	.000731	.000731	0	%100
120	TR-12	Z	.000731	.000731	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	.002	.002	0	%100
2	CP-2	X	.001	.001	0	%100
3	CP-3	X	.001	.001	0	%100
4	CPT-1	X	.000734	.000734	0	%100
5	CPT-2	X	.000734	.000734	0	%100
6	CPT-3	X	.000734	.000734	0	%100
7	CPT-4	X	.000734	.000734	0	%100
8	CPT-5	X	.001	.001	0	%100
9	CPT-6	X	.001	.001	0	%100
10	CPT-7	X	.001	.001	0	%100
11	CPT-8	X	.001	.001	0	%100
12	CPT-9	X	.000734	.000734	0	%100
13	CPT-10	X	.000734	.000734	0	%100
14	CPT-11	X	.000734	.000734	0	%100
15	CPT-12	X	.000734	.000734	0	%100
16	FF-TH	X	.000737	.000737	0	%100
17	GSI-1A	X	.002	.002	0	%100
18	GSI-1B	X	.002	.002	0	%100
19	GSI-2A	X	.000944	.000944	0	%100
20	GSI-2B	X	.000944	.000944	0	%100
21	GSI-3A	X	.00086	.00086	0	%100
22	GSI-3B	X	.00086	.00086	0	%100
23	GSIP-1A	X	.00074	.00074	0	%100
24	GSIP-1B	X	.000644	.000644	0	%100
25	GSIP-2A	X	.000644	.000644	0	%100
26	GSIP-2B	X	.001	.001	0	%100
27	GSIP-3A	X	.001	.001	0	%100
28	GSIP-3B	X	.00074	.00074	0	%100
29	MP-1	X	.000956	.000956	0	%100
30	MP-1B	X	.000956	.000956	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

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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.%]	
31	MP-2	X	.000956	.000956	0	%100
32	MP-3	X	.000956	.000956	0	%100
33	MP-4	X	.000956	.000956	0	%100
34	MP-5	X	.000956	.000956	0	%100
35	MP-5B	X	.000956	.000956	0	%100
36	MP-6	X	.000956	.000956	0	%100
37	MP-7	X	.000956	.000956	0	%100
38	MP-8	X	.000956	.000956	0	%100
39	MP-9	X	.000956	.000956	0	%100
40	MP-9B	X	.000956	.000956	0	%100
41	MP-10	X	.000956	.000956	0	%100
42	MP-11	X	.000956	.000956	0	%100
43	MP-12	X	.000956	.000956	0	%100
44	SA-1	X	0	0	0	%100
45	SA-2	X	.001	.001	0	%100
46	SA-3	X	.002	.002	0	%100
47	SF1-TH	X	.000609	.000609	0	%100
48	SF2-TH	X	.001	.001	0	%100
49	TR-1	X	.000464	.000464	0	%100
50	TR-2	X	.000464	.000464	0	%100
51	TR-3	X	.000464	.000464	0	%100
52	TR-4	X	.000464	.000464	0	%100
53	TR-5	X	0	0	0	%100
54	TR-6	X	0	0	0	%100
55	TR-7	X	0	0	0	%100
56	TR-8	X	0	0	0	%100
57	TR-9	X	.000468	.000468	0	%100
58	TR-10	X	.000468	.000468	0	%100
59	TR-11	X	.000468	.000468	0	%100
60	TR-12	X	.000468	.000468	0	%100
61	CP-1	Z	.004	.004	0	%100
62	CP-2	Z	.002	.002	0	%100
63	CP-3	Z	.002	.002	0	%100
64	CPT-1	Z	.001	.001	0	%100
65	CPT-2	Z	.001	.001	0	%100
66	CPT-3	Z	.001	.001	0	%100
67	CPT-4	Z	.001	.001	0	%100
68	CPT-5	Z	.003	.003	0	%100
69	CPT-6	Z	.003	.003	0	%100
70	CPT-7	Z	.003	.003	0	%100
71	CPT-8	Z	.003	.003	0	%100
72	CPT-9	Z	.001	.001	0	%100
73	CPT-10	Z	.001	.001	0	%100
74	CPT-11	Z	.001	.001	0	%100
75	CPT-12	Z	.001	.001	0	%100
76	FF-TH	Z	.001	.001	0	%100
77	GSI-1A	Z	.003	.003	0	%100
78	GSI-1B	Z	.003	.003	0	%100
79	GSI-2A	Z	.001	.001	0	%100
80	GSI-2B	Z	.001	.001	0	%100
81	GSI-3A	Z	.002	.002	0	%100
82	GSI-3B	Z	.002	.002	0	%100
83	GSIP-1A	Z	.001	.001	0	%100
84	GSIP-1B	Z	.001	.001	0	%100
85	GSIP-2A	Z	.001	.001	0	%100
86	GSIP-2B	Z	.002	.002	0	%100
87	GSIP-3A	Z	.002	.002	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
88	GSIP-3B	Z	.001	.001	0	%100
89	MP-1	Z	.002	.002	0	%100
90	MP-1B	Z	.002	.002	0	%100
91	MP-2	Z	.002	.002	0	%100
92	MP-3	Z	.002	.002	0	%100
93	MP-4	Z	.002	.002	0	%100
94	MP-5	Z	.002	.002	0	%100
95	MP-5B	Z	.002	.002	0	%100
96	MP-6	Z	.002	.002	0	%100
97	MP-7	Z	.002	.002	0	%100
98	MP-8	Z	.002	.002	0	%100
99	MP-9	Z	.002	.002	0	%100
100	MP-9B	Z	.002	.002	0	%100
101	MP-10	Z	.002	.002	0	%100
102	MP-11	Z	.002	.002	0	%100
103	MP-12	Z	.002	.002	0	%100
104	SA-1	Z	0	0	0	%100
105	SA-2	Z	.003	.003	0	%100
106	SA-3	Z	.003	.003	0	%100
107	SF1-TH	Z	.001	.001	0	%100
108	SF2-TH	Z	.003	.003	0	%100
109	TR-1	Z	.000819	.000819	0	%100
110	TR-2	Z	.000819	.000819	0	%100
111	TR-3	Z	.000819	.000819	0	%100
112	TR-4	Z	.000819	.000819	0	%100
113	TR-5	Z	0	0	0	%100
114	TR-6	Z	0	0	0	%100
115	TR-7	Z	0	0	0	%100
116	TR-8	Z	0	0	0	%100
117	TR-9	Z	.000803	.000803	0	%100
118	TR-10	Z	.000803	.000803	0	%100
119	TR-11	Z	.000803	.000803	0	%100
120	TR-12	Z	.000803	.000803	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	.004	.004	0	%100
2	CP-2	Z	0	0	0	%100
3	CP-3	Z	.004	.004	0	%100
4	CPT-1	Z	0	0	0	%100
5	CPT-2	Z	0	0	0	%100
6	CPT-3	Z	0	0	0	%100
7	CPT-4	Z	0	0	0	%100
8	CPT-5	Z	.003	.003	0	%100
9	CPT-6	Z	.003	.003	0	%100
10	CPT-7	Z	.003	.003	0	%100
11	CPT-8	Z	.003	.003	0	%100
12	CPT-9	Z	.003	.003	0	%100
13	CPT-10	Z	.003	.003	0	%100
14	CPT-11	Z	.003	.003	0	%100
15	CPT-12	Z	.003	.003	0	%100
16	FF-TH	Z	0	0	0	%100
17	GSI-1A	Z	.003	.003	0	%100
18	GSI-1B	Z	.003	.003	0	%100
19	GSI-2A	Z	0	0	0	%100
20	GSI-2B	Z	0	0	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
21	GSI-3A	Z	.003	.003	0	%100
22	GSI-3B	Z	.003	.003	0	%100
23	GSIP-1A	Z	0	0	0	%100
24	GSIP-1B	Z	.002	.002	0	%100
25	GSIP-2A	Z	.002	.002	0	%100
26	GSIP-2B	Z	.002	.002	0	%100
27	GSIP-3A	Z	.002	.002	0	%100
28	GSIP-3B	Z	0	0	0	%100
29	MP-1	Z	.002	.002	0	%100
30	MP-1B	Z	.002	.002	0	%100
31	MP-2	Z	.002	.002	0	%100
32	MP-3	Z	.002	.002	0	%100
33	MP-4	Z	.002	.002	0	%100
34	MP-5	Z	.002	.002	0	%100
35	MP-5B	Z	.002	.002	0	%100
36	MP-6	Z	.002	.002	0	%100
37	MP-7	Z	.002	.002	0	%100
38	MP-8	Z	.002	.002	0	%100
39	MP-9	Z	.002	.002	0	%100
40	MP-9B	Z	.002	.002	0	%100
41	MP-10	Z	.002	.002	0	%100
42	MP-11	Z	.002	.002	0	%100
43	MP-12	Z	.002	.002	0	%100
44	SA-1	Z	.002	.002	0	%100
45	SA-2	Z	.004	.004	0	%100
46	SA-3	Z	.002	.002	0	%100
47	SF1-TH	Z	.003	.003	0	%100
48	SF2-TH	Z	.003	.003	0	%100
49	TR-1	Z	.001	.001	0	%100
50	TR-2	Z	.001	.001	0	%100
51	TR-3	Z	.001	.001	0	%100
52	TR-4	Z	.001	.001	0	%100
53	TR-5	Z	.000535	.000535	0	%100
54	TR-6	Z	.000535	.000535	0	%100
55	TR-7	Z	.000535	.000535	0	%100
56	TR-8	Z	.000535	.000535	0	%100
57	TR-9	Z	.000535	.000535	0	%100
58	TR-10	Z	.000535	.000535	0	%100
59	TR-11	Z	.000535	.000535	0	%100
60	TR-12	Z	.000535	.000535	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	-.001	-.001	0	%100
2	CP-2	X	-.001	-.001	0	%100
3	CP-3	X	-.002	-.002	0	%100
4	CPT-1	X	-.000734	-.000734	0	%100
5	CPT-2	X	-.000734	-.000734	0	%100
6	CPT-3	X	-.000734	-.000734	0	%100
7	CPT-4	X	-.000734	-.000734	0	%100
8	CPT-5	X	-.000734	-.000734	0	%100
9	CPT-6	X	-.000734	-.000734	0	%100
10	CPT-7	X	-.000734	-.000734	0	%100
11	CPT-8	X	-.000734	-.000734	0	%100
12	CPT-9	X	-.001	-.001	0	%100
13	CPT-10	X	-.001	-.001	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

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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.%]	
14	CPT-11	X	-.001	-.001	0	%100
15	CPT-12	X	-.001	-.001	0	%100
16	FF-TH	X	-.000737	-.000737	0	%100
17	GSI-1A	X	-.00086	-.00086	0	%100
18	GSI-1B	X	-.00086	-.00086	0	%100
19	GSI-2A	X	-.000944	-.000944	0	%100
20	GSI-2B	X	-.000944	-.000944	0	%100
21	GSI-3A	X	-.002	-.002	0	%100
22	GSI-3B	X	-.002	-.002	0	%100
23	GSIP-1A	X	-.00074	-.00074	0	%100
24	GSIP-1B	X	-.001	-.001	0	%100
25	GSIP-2A	X	-.001	-.001	0	%100
26	GSIP-2B	X	-.000644	-.000644	0	%100
27	GSIP-3A	X	-.000644	-.000644	0	%100
28	GSIP-3B	X	-.00074	-.00074	0	%100
29	MP-1	X	-.000956	-.000956	0	%100
30	MP-1B	X	-.000956	-.000956	0	%100
31	MP-2	X	-.000956	-.000956	0	%100
32	MP-3	X	-.000956	-.000956	0	%100
33	MP-4	X	-.000956	-.000956	0	%100
34	MP-5	X	-.000956	-.000956	0	%100
35	MP-5B	X	-.000956	-.000956	0	%100
36	MP-6	X	-.000956	-.000956	0	%100
37	MP-7	X	-.000956	-.000956	0	%100
38	MP-8	X	-.000956	-.000956	0	%100
39	MP-9	X	-.000956	-.000956	0	%100
40	MP-9B	X	-.000956	-.000956	0	%100
41	MP-10	X	-.000956	-.000956	0	%100
42	MP-11	X	-.000956	-.000956	0	%100
43	MP-12	X	-.000956	-.000956	0	%100
44	SA-1	X	-.002	-.002	0	%100
45	SA-2	X	-.001	-.001	0	%100
46	SA-3	X	0	0	0	%100
47	SF1-TH	X	-.001	-.001	0	%100
48	SF2-TH	X	-.000609	-.000609	0	%100
49	TR-1	X	-.000464	-.000464	0	%100
50	TR-2	X	-.000464	-.000464	0	%100
51	TR-3	X	-.000464	-.000464	0	%100
52	TR-4	X	-.000464	-.000464	0	%100
53	TR-5	X	-.000468	-.000468	0	%100
54	TR-6	X	-.000468	-.000468	0	%100
55	TR-7	X	-.000468	-.000468	0	%100
56	TR-8	X	-.000468	-.000468	0	%100
57	TR-9	X	0	0	0	%100
58	TR-10	X	0	0	0	%100
59	TR-11	X	0	0	0	%100
60	TR-12	X	0	0	0	%100
61	CP-1	Z	.002	.002	0	%100
62	CP-2	Z	.002	.002	0	%100
63	CP-3	Z	.004	.004	0	%100
64	CPT-1	Z	.001	.001	0	%100
65	CPT-2	Z	.001	.001	0	%100
66	CPT-3	Z	.001	.001	0	%100
67	CPT-4	Z	.001	.001	0	%100
68	CPT-5	Z	.001	.001	0	%100
69	CPT-6	Z	.001	.001	0	%100
70	CPT-7	Z	.001	.001	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

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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.%]	
71	CPT-8	Z	.001	.001	0	%100
72	CPT-9	Z	.003	.003	0	%100
73	CPT-10	Z	.003	.003	0	%100
74	CPT-11	Z	.003	.003	0	%100
75	CPT-12	Z	.003	.003	0	%100
76	FF-TH	Z	.001	.001	0	%100
77	GSI-1A	Z	.002	.002	0	%100
78	GSI-1B	Z	.002	.002	0	%100
79	GSI-2A	Z	.001	.001	0	%100
80	GSI-2B	Z	.001	.001	0	%100
81	GSI-3A	Z	.003	.003	0	%100
82	GSI-3B	Z	.003	.003	0	%100
83	GSIP-1A	Z	.001	.001	0	%100
84	GSIP-1B	Z	.002	.002	0	%100
85	GSIP-2A	Z	.002	.002	0	%100
86	GSIP-2B	Z	.001	.001	0	%100
87	GSIP-3A	Z	.001	.001	0	%100
88	GSIP-3B	Z	.001	.001	0	%100
89	MP-1	Z	.002	.002	0	%100
90	MP-1B	Z	.002	.002	0	%100
91	MP-2	Z	.002	.002	0	%100
92	MP-3	Z	.002	.002	0	%100
93	MP-4	Z	.002	.002	0	%100
94	MP-5	Z	.002	.002	0	%100
95	MP-5B	Z	.002	.002	0	%100
96	MP-6	Z	.002	.002	0	%100
97	MP-7	Z	.002	.002	0	%100
98	MP-8	Z	.002	.002	0	%100
99	MP-9	Z	.002	.002	0	%100
100	MP-9B	Z	.002	.002	0	%100
101	MP-10	Z	.002	.002	0	%100
102	MP-11	Z	.002	.002	0	%100
103	MP-12	Z	.002	.002	0	%100
104	SA-1	Z	.003	.003	0	%100
105	SA-2	Z	.003	.003	0	%100
106	SA-3	Z	0	0	0	%100
107	SF1-TH	Z	.003	.003	0	%100
108	SF2-TH	Z	.001	.001	0	%100
109	TR-1	Z	.000819	.000819	0	%100
110	TR-2	Z	.000819	.000819	0	%100
111	TR-3	Z	.000819	.000819	0	%100
112	TR-4	Z	.000819	.000819	0	%100
113	TR-5	Z	.000803	.000803	0	%100
114	TR-6	Z	.000803	.000803	0	%100
115	TR-7	Z	.000803	.000803	0	%100
116	TR-8	Z	.000803	.000803	0	%100
117	TR-9	Z	0	0	0	%100
118	TR-10	Z	0	0	0	%100
119	TR-11	Z	0	0	0	%100
120	TR-12	Z	0	0	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	-.000876	-.000876	0	%100
2	CP-2	X	-.002	-.002	0	%100
3	CP-3	X	-.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.%]	
4	CPT-1	X	-.001	-.001	0	%100
5	CPT-2	X	-.001	-.001	0	%100
6	CPT-3	X	-.001	-.001	0	%100
7	CPT-4	X	-.001	-.001	0	%100
8	CPT-5	X	-.000537	-.000537	0	%100
9	CPT-6	X	-.000537	-.000537	0	%100
10	CPT-7	X	-.000537	-.000537	0	%100
11	CPT-8	X	-.000537	-.000537	0	%100
12	CPT-9	X	-.002	-.002	0	%100
13	CPT-10	X	-.002	-.002	0	%100
14	CPT-11	X	-.002	-.002	0	%100
15	CPT-12	X	-.002	-.002	0	%100
16	FF-TH	X	-.001	-.001	0	%100
17	GSI-1A	X	-.00063	-.00063	0	%100
18	GSI-1B	X	-.00063	-.00063	0	%100
19	GSI-2A	X	-.002	-.002	0	%100
20	GSI-2B	X	-.002	-.002	0	%100
21	GSI-3A	X	-.002	-.002	0	%100
22	GSI-3B	X	-.002	-.002	0	%100
23	GSIP-1A	X	-.001	-.001	0	%100
24	GSIP-1B	X	-.002	-.002	0	%100
25	GSIP-2A	X	-.002	-.002	0	%100
26	GSIP-2B	X	-.000471	-.000471	0	%100
27	GSIP-3A	X	-.000471	-.000471	0	%100
28	GSIP-3B	X	-.001	-.001	0	%100
29	MP-1	X	-.001	-.001	0	%100
30	MP-1B	X	-.001	-.001	0	%100
31	MP-2	X	-.001	-.001	0	%100
32	MP-3	X	-.001	-.001	0	%100
33	MP-4	X	-.001	-.001	0	%100
34	MP-5	X	-.001	-.001	0	%100
35	MP-5B	X	-.001	-.001	0	%100
36	MP-6	X	-.001	-.001	0	%100
37	MP-7	X	-.001	-.001	0	%100
38	MP-8	X	-.001	-.001	0	%100
39	MP-9	X	-.001	-.001	0	%100
40	MP-9B	X	-.001	-.001	0	%100
41	MP-10	X	-.001	-.001	0	%100
42	MP-11	X	-.001	-.001	0	%100
43	MP-12	X	-.001	-.001	0	%100
44	SA-1	X	-.003	-.003	0	%100
45	SA-2	X	-.002	-.002	0	%100
46	SA-3	X	-.000735	-.000735	0	%100
47	SF1-TH	X	-.002	-.002	0	%100
48	SF2-TH	X	-.000446	-.000446	0	%100
49	TR-1	X	-.000535	-.000535	0	%100
50	TR-2	X	-.000535	-.000535	0	%100
51	TR-3	X	-.000535	-.000535	0	%100
52	TR-4	X	-.000535	-.000535	0	%100
53	TR-5	X	-.000739	-.000739	0	%100
54	TR-6	X	-.000739	-.000739	0	%100
55	TR-7	X	-.000739	-.000739	0	%100
56	TR-8	X	-.000739	-.000739	0	%100
57	TR-9	X	-.000198	-.000198	0	%100
58	TR-10	X	-.000198	-.000198	0	%100
59	TR-11	X	-.000198	-.000198	0	%100
60	TR-12	X	-.000198	-.000198	0	%100



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

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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.%]	
61	CP-1	Z	.000876	.000876	0	%100
62	CP-2	Z	.002	.002	0	%100
63	CP-3	Z	.003	.003	0	%100
64	CPT-1	Z	.001	.001	0	%100
65	CPT-2	Z	.001	.001	0	%100
66	CPT-3	Z	.001	.001	0	%100
67	CPT-4	Z	.001	.001	0	%100
68	CPT-5	Z	.000537	.000537	0	%100
69	CPT-6	Z	.000537	.000537	0	%100
70	CPT-7	Z	.000537	.000537	0	%100
71	CPT-8	Z	.000537	.000537	0	%100
72	CPT-9	Z	.002	.002	0	%100
73	CPT-10	Z	.002	.002	0	%100
74	CPT-11	Z	.002	.002	0	%100
75	CPT-12	Z	.002	.002	0	%100
76	FF-TH	Z	.001	.001	0	%100
77	GSI-1A	Z	.000674	.000674	0	%100
78	GSI-1B	Z	.000674	.000674	0	%100
79	GSI-2A	Z	.002	.002	0	%100
80	GSI-2B	Z	.002	.002	0	%100
81	GSI-3A	Z	.003	.003	0	%100
82	GSI-3B	Z	.003	.003	0	%100
83	GSIP-1A	Z	.001	.001	0	%100
84	GSIP-1B	Z	.002	.002	0	%100
85	GSIP-2A	Z	.002	.002	0	%100
86	GSIP-2B	Z	.000523	.000523	0	%100
87	GSIP-3A	Z	.000523	.000523	0	%100
88	GSIP-3B	Z	.001	.001	0	%100
89	MP-1	Z	.002	.002	0	%100
90	MP-1B	Z	.002	.002	0	%100
91	MP-2	Z	.002	.002	0	%100
92	MP-3	Z	.002	.002	0	%100
93	MP-4	Z	.002	.002	0	%100
94	MP-5	Z	.002	.002	0	%100
95	MP-5B	Z	.002	.002	0	%100
96	MP-6	Z	.002	.002	0	%100
97	MP-7	Z	.002	.002	0	%100
98	MP-8	Z	.002	.002	0	%100
99	MP-9	Z	.002	.002	0	%100
100	MP-9B	Z	.002	.002	0	%100
101	MP-10	Z	.002	.002	0	%100
102	MP-11	Z	.002	.002	0	%100
103	MP-12	Z	.002	.002	0	%100
104	SA-1	Z	.002	.002	0	%100
105	SA-2	Z	.002	.002	0	%100
106	SA-3	Z	.000665	.000665	0	%100
107	SF1-TH	Z	.002	.002	0	%100
108	SF2-TH	Z	.000539	.000539	0	%100
109	TR-1	Z	.000546	.000546	0	%100
110	TR-2	Z	.000546	.000546	0	%100
111	TR-3	Z	.000546	.000546	0	%100
112	TR-4	Z	.000546	.000546	0	%100
113	TR-5	Z	.000731	.000731	0	%100
114	TR-6	Z	.000731	.000731	0	%100
115	TR-7	Z	.000731	.000731	0	%100
116	TR-8	Z	.000731	.000731	0	%100
117	TR-9	Z	.000196	.000196	0	%100



Company : Tower Engineering Professionals
 Designer : DC
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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.%]	
118	TR-10	Z	.000196	.000196	0	%100
119	TR-11	Z	.000196	.000196	0	%100
120	TR-12	Z	.000196	.000196	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	-.004	-.004	0	%100
3	CP-3	X	-.004	-.004	0	%100
4	CPT-1	X	-.002	-.002	0	%100
5	CPT-2	X	-.002	-.002	0	%100
6	CPT-3	X	-.002	-.002	0	%100
7	CPT-4	X	-.002	-.002	0	%100
8	CPT-5	X	0	0	0	%100
9	CPT-6	X	0	0	0	%100
10	CPT-7	X	0	0	0	%100
11	CPT-8	X	0	0	0	%100
12	CPT-9	X	-.002	-.002	0	%100
13	CPT-10	X	-.002	-.002	0	%100
14	CPT-11	X	-.002	-.002	0	%100
15	CPT-12	X	-.002	-.002	0	%100
16	FF-TH	X	-.002	-.002	0	%100
17	GSI-1A	X	0	0	0	%100
18	GSI-1B	X	0	0	0	%100
19	GSI-2A	X	-.003	-.003	0	%100
20	GSI-2B	X	-.003	-.003	0	%100
21	GSI-3A	X	-.003	-.003	0	%100
22	GSI-3B	X	-.003	-.003	0	%100
23	GSIP-1A	X	-.002	-.002	0	%100
24	GSIP-1B	X	-.002	-.002	0	%100
25	GSIP-2A	X	-.002	-.002	0	%100
26	GSIP-2B	X	0	0	0	%100
27	GSIP-3A	X	0	0	0	%100
28	GSIP-3B	X	-.002	-.002	0	%100
29	MP-1	X	-.002	-.002	0	%100
30	MP-1B	X	-.002	-.002	0	%100
31	MP-2	X	-.002	-.002	0	%100
32	MP-3	X	-.002	-.002	0	%100
33	MP-4	X	-.002	-.002	0	%100
34	MP-5	X	-.002	-.002	0	%100
35	MP-5B	X	-.002	-.002	0	%100
36	MP-6	X	-.002	-.002	0	%100
37	MP-7	X	-.002	-.002	0	%100
38	MP-8	X	-.002	-.002	0	%100
39	MP-9	X	-.002	-.002	0	%100
40	MP-9B	X	-.002	-.002	0	%100
41	MP-10	X	-.002	-.002	0	%100
42	MP-11	X	-.002	-.002	0	%100
43	MP-12	X	-.002	-.002	0	%100
44	SA-1	X	-.003	-.003	0	%100
45	SA-2	X	-.001	-.001	0	%100
46	SA-3	X	-.002	-.002	0	%100
47	SF1-TH	X	-.002	-.002	0	%100
48	SF2-TH	X	0	0	0	%100
49	TR-1	X	-.000464	-.000464	0	%100
50	TR-2	X	-.000464	-.000464	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.%]	
51	TR-3	X	-0.00464	-0.00464	0	%100
52	TR-4	X	-0.00464	-0.00464	0	%100
53	TR-5	X	-0.00936	-0.00936	0	%100
54	TR-6	X	-0.00936	-0.00936	0	%100
55	TR-7	X	-0.00936	-0.00936	0	%100
56	TR-8	X	-0.00936	-0.00936	0	%100
57	TR-9	X	-0.00468	-0.00468	0	%100
58	TR-10	X	-0.00468	-0.00468	0	%100
59	TR-11	X	-0.00468	-0.00468	0	%100
60	TR-12	X	-0.00468	-0.00468	0	%100
61	CP-1	Z	0	0	0	%100
62	CP-2	Z	.002	.002	0	%100
63	CP-3	Z	.002	.002	0	%100
64	CPT-1	Z	.001	.001	0	%100
65	CPT-2	Z	.001	.001	0	%100
66	CPT-3	Z	.001	.001	0	%100
67	CPT-4	Z	.001	.001	0	%100
68	CPT-5	Z	0	0	0	%100
69	CPT-6	Z	0	0	0	%100
70	CPT-7	Z	0	0	0	%100
71	CPT-8	Z	0	0	0	%100
72	CPT-9	Z	.001	.001	0	%100
73	CPT-10	Z	.001	.001	0	%100
74	CPT-11	Z	.001	.001	0	%100
75	CPT-12	Z	.001	.001	0	%100
76	FF-TH	Z	.001	.001	0	%100
77	GSI-1A	Z	0	0	0	%100
78	GSI-1B	Z	0	0	0	%100
79	GSI-2A	Z	.001	.001	0	%100
80	GSI-2B	Z	.001	.001	0	%100
81	GSI-3A	Z	.002	.002	0	%100
82	GSI-3B	Z	.002	.002	0	%100
83	GSIP-1A	Z	.001	.001	0	%100
84	GSIP-1B	Z	.001	.001	0	%100
85	GSIP-2A	Z	.001	.001	0	%100
86	GSIP-2B	Z	0	0	0	%100
87	GSIP-3A	Z	0	0	0	%100
88	GSIP-3B	Z	.001	.001	0	%100
89	MP-1	Z	.001	.001	0	%100
90	MP-1B	Z	.001	.001	0	%100
91	MP-2	Z	.001	.001	0	%100
92	MP-3	Z	.001	.001	0	%100
93	MP-4	Z	.001	.001	0	%100
94	MP-5	Z	.001	.001	0	%100
95	MP-5B	Z	.001	.001	0	%100
96	MP-6	Z	.001	.001	0	%100
97	MP-7	Z	.001	.001	0	%100
98	MP-8	Z	.001	.001	0	%100
99	MP-9	Z	.001	.001	0	%100
100	MP-9B	Z	.001	.001	0	%100
101	MP-10	Z	.001	.001	0	%100
102	MP-11	Z	.001	.001	0	%100
103	MP-12	Z	.001	.001	0	%100
104	SA-1	Z	.002	.002	0	%100
105	SA-2	Z	.001	.001	0	%100
106	SA-3	Z	.000908	.000908	0	%100
107	SF1-TH	Z	.001	.001	0	%100



Company : Tower Engineering Professionals
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 Job Number : TEP No. 217454.407803
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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.%]	
108	SF2-TH	Z	0	0	0	%100
109	TR-1	Z	.000273	.000273	0	%100
110	TR-2	Z	.000273	.000273	0	%100
111	TR-3	Z	.000273	.000273	0	%100
112	TR-4	Z	.000273	.000273	0	%100
113	TR-5	Z	.000535	.000535	0	%100
114	TR-6	Z	.000535	.000535	0	%100
115	TR-7	Z	.000535	.000535	0	%100
116	TR-8	Z	.000535	.000535	0	%100
117	TR-9	Z	.000268	.000268	0	%100
118	TR-10	Z	.000268	.000268	0	%100
119	TR-11	Z	.000268	.000268	0	%100
120	TR-12	Z	.000268	.000268	0	%100

Member Distributed Loads (BLC 37 : BLC 1 Transient Area Loads)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	Y	-.001	-.001	.52	.756
2	GSI-1A	Y	-.008	-.008	.638	2.75
3	GSI-1B	Y	-.008	-.008	0	2.112
4	GSIP-1A	Y	-3.936e-5	-.007	.422	1.183
5	GSIP-1A	Y	-.007	-.01	1.183	1.943
6	GSIP-1A	Y	-.01	-.005	1.943	2.704
7	GSIP-1A	Y	-.005	-.003	2.704	3.464
8	GSIP-1A	Y	-.003	-.002	3.464	4.225
9	GSIP-1B	Y	-.002	-.003	0	.76
10	GSIP-1B	Y	-.003	-.005	.76	1.521
11	GSIP-1B	Y	-.005	-.01	1.521	2.281
12	GSIP-1B	Y	-.01	-.007	2.281	3.042
13	GSIP-1B	Y	-.007	-3.936e-5	3.042	3.802
14	SA-1	Y	-.0003814	-.014	1.575	2.31
15	SA-1	Y	-.014	-.018	2.31	3.045
16	SA-1	Y	-.018	-.011	3.045	3.78
17	SA-1	Y	-.011	-.009	3.78	4.515
18	SA-1	Y	-.009	-.001	4.515	5.25
19	CP-2	Y	-.001	-.001	.52	.756
20	GSI-2A	Y	-.008	-.008	.638	2.75
21	GSI-2B	Y	-.008	-.008	0	2.112
22	GSIP-2A	Y	-3.936e-5	-.007	.422	1.183
23	GSIP-2A	Y	-.007	-.01	1.183	1.943
24	GSIP-2A	Y	-.01	-.005	1.943	2.704
25	GSIP-2A	Y	-.005	-.003	2.704	3.464
26	GSIP-2A	Y	-.003	-.002	3.464	4.225
27	GSIP-2B	Y	-.002	-.003	0	.76
28	GSIP-2B	Y	-.003	-.005	.76	1.521
29	GSIP-2B	Y	-.005	-.01	1.521	2.281
30	GSIP-2B	Y	-.01	-.007	2.281	3.042
31	GSIP-2B	Y	-.007	-3.936e-5	3.042	3.802
32	SA-2	Y	-.0003814	-.014	1.575	2.31
33	SA-2	Y	-.014	-.018	2.31	3.045
34	SA-2	Y	-.018	-.011	3.045	3.78
35	SA-2	Y	-.011	-.009	3.78	4.515
36	SA-2	Y	-.009	-.001	4.515	5.25
37	CP-3	Y	-.001	-.001	.52	.756
38	GSI-3A	Y	-.008	-.008	.638	2.75
39	GSI-3B	Y	-.008	-.008	0	2.112
40	GSIP-3A	Y	-3.936e-5	-.007	.422	1.183



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

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Member Distributed Loads (BLC 37 : BLC 1 Transient Area Loads) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
41	GSIP-3A	Y	-0.07	-0.1	1.183	1.943
42	GSIP-3A	Y	-0.01	-0.05	1.943	2.704
43	GSIP-3A	Y	-0.05	-0.03	2.704	3.464
44	GSIP-3A	Y	-0.03	-0.02	3.464	4.225
45	GSIP-3B	Y	-0.02	-0.03	0	.76
46	GSIP-3B	Y	-0.03	-0.05	.76	1.521
47	GSIP-3B	Y	-0.05	-0.01	1.521	2.281
48	GSIP-3B	Y	-0.01	-0.07	2.281	3.042
49	GSIP-3B	Y	-0.07	-3.936e-5	3.042	3.802
50	SA-3	Y	-0.003814	-0.14	1.575	2.31
51	SA-3	Y	-0.14	-0.18	2.31	3.045
52	SA-3	Y	-0.18	-0.11	3.045	3.78
53	SA-3	Y	-0.11	-0.09	3.78	4.515
54	SA-3	Y	-0.09	-0.01	4.515	5.25

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	CP-1	Y	-0.005484	-0.005484	.52	.756
2	GSI-1A	Y	-0.03	-0.03	.638	2.75
3	GSI-1B	Y	-0.03	-0.03	0	2.112
4	GSIP-1A	Y	-1.64e-5	-0.03	.422	1.183
5	GSIP-1A	Y	-0.03	-0.04	1.183	1.943
6	GSIP-1A	Y	-0.04	-0.02	1.943	2.704
7	GSIP-1A	Y	-0.02	-0.01	2.704	3.464
8	GSIP-1A	Y	-0.01	-0.008932	3.464	4.225
9	GSIP-1B	Y	-0.008932	-0.01	0	.76
10	GSIP-1B	Y	-0.01	-0.02	.76	1.521
11	GSIP-1B	Y	-0.02	-0.04	1.521	2.281
12	GSIP-1B	Y	-0.04	-0.03	2.281	3.042
13	GSIP-1B	Y	-0.03	-1.64e-5	3.042	3.802
14	SA-1	Y	-0.001589	-0.06	1.575	2.31
15	SA-1	Y	-0.06	-0.08	2.31	3.045
16	SA-1	Y	-0.08	-0.04	3.045	3.78
17	SA-1	Y	-0.04	-0.04	3.78	4.515
18	SA-1	Y	-0.04	-0.005678	4.515	5.25
19	CP-2	Y	-0.005484	-0.005484	.52	.756
20	GSI-2A	Y	-0.03	-0.03	.638	2.75
21	GSI-2B	Y	-0.03	-0.03	0	2.112
22	GSIP-2A	Y	-1.64e-5	-0.03	.422	1.183
23	GSIP-2A	Y	-0.03	-0.04	1.183	1.943
24	GSIP-2A	Y	-0.04	-0.02	1.943	2.704
25	GSIP-2A	Y	-0.02	-0.01	2.704	3.464
26	GSIP-2A	Y	-0.01	-0.008932	3.464	4.225
27	GSIP-2B	Y	-0.008932	-0.01	0	.76
28	GSIP-2B	Y	-0.01	-0.02	.76	1.521
29	GSIP-2B	Y	-0.02	-0.04	1.521	2.281
30	GSIP-2B	Y	-0.04	-0.03	2.281	3.042
31	GSIP-2B	Y	-0.03	-1.64e-5	3.042	3.802
32	SA-2	Y	-0.001589	-0.06	1.575	2.31
33	SA-2	Y	-0.06	-0.08	2.31	3.045
34	SA-2	Y	-0.08	-0.04	3.045	3.78
35	SA-2	Y	-0.04	-0.04	3.78	4.515
36	SA-2	Y	-0.04	-0.005678	4.515	5.25
37	CP-3	Y	-0.005484	-0.005484	.52	.756
38	GSI-3A	Y	-0.03	-0.03	.638	2.75
39	GSI-3B	Y	-0.03	-0.03	0	2.112



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
40	GSIP-3A	Y	-1.64e-5	-0.03	.422	1.183
41	GSIP-3A	Y	-0.03	-0.04	1.183	1.943
42	GSIP-3A	Y	-0.04	-0.02	1.943	2.704
43	GSIP-3A	Y	-0.02	-0.01	2.704	3.464
44	GSIP-3A	Y	-0.01	-0.008932	3.464	4.225
45	GSIP-3B	Y	-0.008932	-0.01	0	.76
46	GSIP-3B	Y	-0.01	-0.02	.76	1.521
47	GSIP-3B	Y	-0.02	-0.04	1.521	2.281
48	GSIP-3B	Y	-0.04	-0.03	2.281	3.042
49	GSIP-3B	Y	-0.03	-1.64e-5	3.042	3.802
50	SA-3	Y	-0.001589	-0.06	1.575	2.31
51	SA-3	Y	-0.06	-0.08	2.31	3.045
52	SA-3	Y	-0.08	-0.04	3.045	3.78
53	SA-3	Y	-0.04	-0.04	3.78	4.515
54	SA-3	Y	-0.04	-0.005678	4.515	5.25

Member Area Loads (BLC 1 : Dead)

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]	
1	P1	P2	P3	P4	Y	Two Way	-0.12
2	P5	P6	P7	P8	Y	Two Way	-0.12
3	P9	P10	P11	P12	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	P1	P2	P3	P4	Y	Two Way	-0.05
2	P5	P6	P7	P8	Y	Two Way	-0.05
3	P9	P10	P11	P12	Y	Two Way	-0.05

Envelope Joint Reactions

Joint	X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC		
1	N2	max	2.308	18	2.301	34	1.468	6	.324	6	1.862	6	-1.221	11
2		min	-2.308	26	.607	10	-1.468	14	-.425	30	-1.862	14	-6.21	34
3	N4	max	1.486	2	2.217	45	1.99	21	-.971	6	1.649	17	3.162	42
4		min	-1.486	10	.593	5	-1.99	29	-5.204	45	-1.649	9	.575	3
5	N6	max	1.492	18	2.356	39	2.009	23	5.634	39	1.979	11	3.331	58
6		min	-1.492	26	.617	15	-2.009	31	1.046	14	-1.979	3	.398	17
7	Totals:	max	5.286	18	6.723	49	5.297	22						
8		min	-5.286	10	2.508	2	-5.297	14						

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

Member	Shape	Code Check	Loc..	LC	Shear Ch...	Loc[ft]	Dir	LC	phi*Pn...	phi*Pn...	phi*M...	phi*M...	Eqn
1	TR-3	1/2 Thre...	.632	0	24	.098	0	23	3.886	4.596	.033	.033	2.H1-1b
2	TR-4	1/2 Thre...	.631	0	28	.098	0	29	3.886	4.596	.033	.033	2.H1-1b
3	TR-7	1/2 Thre...	.626	0	34	.098	0	18	3.886	4.596	.033	.033	2.H1-1b
4	TR-12	1/2 Thre...	.624	0	34	.098	0	18	3.886	4.596	.033	.033	2.H1-1b
5	TR-11	1/2 Thre...	.613	0	29	.098	0	29	3.886	4.596	.033	.033	2.H1-1b
6	TR-8	1/2 Thre...	.612	0	23	.098	0	23	3.886	4.596	.033	.033	2.H1-1b
7	MP-12	PIPE 2.0	.559	3.9..	21	.035	3.938	21	16.812	32.13	1.872	1.872	1.H1-1b
8	TR-10	1/2 Thre...	.559	.5	42	.083	0	26	3.886	4.596	.033	.033	2.H1-1b
9	TR-5	1/2 Thre...	.537	.5	42	.083	0	26	3.886	4.596	.033	.033	2.H1-1b
10	TR-6	1/2 Thre...	.531	.5	34	.083	0	31	3.886	4.596	.033	.033	2.H1-1b
11	TR-9	1/2 Thre...	.530	.5	34	.083	0	21	3.886	4.596	.033	.033	2.H1-1b



Company : Tower Engineering Professionals
 Designer : DC
 Job Number : TEP No. 217454.407803
 Model Name : CCI BU No. 806367

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

Member	Shape	Code Check	Loc.	LC	Shear Ch.	Loc[ft]	Dir	LC	phi*Pn	phi*Pn	phi*M	phi*M	Eqn	
12	TR-2	1/2 Thre...	.528	0	35	.083	0	21	3.886	4.596	.033	.033	2.H1-1b	
13	TR-1	1/2 Thre...	.526	0	32	.083	0	31	3.886	4.596	.033	.033	2.H1-1b	
14	SA-3	HSS4X4...	.522	0	42	.107	0	y	36	65.494	106.812	12.662	2.H1-1b	
15	MP-11	PIPE 2.0	.504	3.9...	21	.033	3.938	21	13.788	32.13	1.872	1.872	1.H1-1b	
16	SA-2	HSS4X4...	.500	0	47	.089	0	z	30	65.494	106.812	12.662	2.H1-1b	
17	SA-1	HSS4X4...	.494	0	42	.090	0	y	42	65.494	106.812	12.662	2.H1-1b	
18	MP-4	PIPE 2.0	.483	3.9...	26	.031	3.938	26	16.812	32.13	1.872	1.872	1.H1-1b	
19	MP-8	PIPE 2.0	.483	3.9...	31	.031	3.938	31	16.812	32.13	1.872	1.872	1.H1-1b	
20	MP-10	PIPE 2.0	.475	3.9...	21	.031	3.938	21	13.788	32.13	1.872	1.872	1.H1-1b	
21	MP-7	PIPE 2.0	.406	3.9...	31	.027	3.938	31	13.788	32.13	1.872	1.872	1.H1-1b	
22	MP-3	PIPE 2.0	.406	3.9...	26	.027	3.938	26	13.788	32.13	1.872	1.872	1.H1-1b	
23	MP-6	PIPE 2.0	.377	3.9...	31	.026	3.938	31	13.788	32.13	1.872	1.872	1.H1-1b	
24	MP-2	PIPE 2.0	.377	3.9...	26	.026	3.938	26	13.788	32.13	1.872	1.872	1.H1-1b	
25	CP-3	PL6x1/2	.317	.638	30	.311	.638	y	29	83.858	97.2	1.012	12.15	1.H1-1b
26	MP-1B	PIPE 2.0	.317	3.9...	26	.052	4.01	20	16.812	32.13	1.872	1.872	1.H1-1b	
27	MP-9B	PIPE 2.0	.317	3.9...	21	.052	4.01	31	16.812	32.13	1.872	1.872	1.H1-1b	
28	MP-5B	PIPE 2.0	.317	3.9...	31	.052	4.01	26	16.812	32.13	1.872	1.872	1.H1-1b	
29	CP-1	PL6x1/2	.301	.638	19	.277	.638	y	18	83.838	97.2	1.012	12.15	1.H1-1b
30	CP-2	PL6x1/2	.299	.638	25	.279	1.275	y	21	83.858	97.2	1.012	12.15	1.H1-1b
31	CPT-3	PL2x3/8	.227	.25	20	.155	.25	y	41	11.909	24.3	.19	1.012	1.H1-1b
32	CPT-7	PL2x3/8	.222	.25	30	.157	.25	y	34	11.909	24.3	.19	1.012	1.H1-1b
33	CPT-11	PL2x3/8	.222	.25	25	.156	.25	y	34	11.909	24.3	.19	1.012	1.H1-1b
34	FF-TH	PIPE 3.0	.211	4.6...	42	.148	9.818	26	4.822	65.205	5.749	5.749	1.H1-1b	
35	SF2-TH	PIPE 3.0	.207	4.6...	21	.170	9.818	21	4.822	65.205	5.749	5.749	1.H1-1b	
36	GSIP-3A	L2x2x4	.205	2.0...	22	.007	4.225	z	28	12.393	30.586	.691	1.482	1.H2-1
37	SF1-TH	PIPE 3.0	.198	4.6...	47	.149	9.818	31	4.822	65.205	5.749	5.749	1.H1-1b	
38	GSIP-1A	L2x2x4	.198	2.0...	27	.007	0	z	18	12.393	30.586	.691	1.487	1.H2-1
39	GSIP-2A	L2x2x4	.195	2.0...	33	.007	0	z	23	12.393	30.586	.691	1.477	1.H2-1
40	GSIP-2B	L2x2x4	.183	2.1...	19	.008	0	z	21	12.393	30.586	.691	1.477	1.H2-1
41	GSI-3A	HSS4X4...	.183	2.75	37	.172	.43	z	21	104.752	106.812	12.662	12.662	1.H1-1b
42	GSIP-3B	L2x2x4	.181	2.1...	25	.008	0	z	26	12.393	30.586	.691	1.487	1.H2-1
43	GSI-2B	HSS4X4...	.180	0	36	.156	2.32	z	21	104.752	106.812	12.662	12.662	1.H1-1b
44	GSIP-1B	L2x2x4	.180	2.1...	30	.008	4.225	z	31	12.393	30.586	.691	1.482	1.H2-1
45	GSI-3B	HSS4X4...	.177	0	42	.145	2.32	z	26	104.752	106.812	12.662	12.662	1.H1-1b
46	GSI-2A	HSS4X4...	.173	2.75	48	.156	.43	z	31	104.752	106.812	12.662	12.662	1.H1-1b
47	GSI-1B	HSS4X4...	.167	0	47	.145	2.32	z	31	104.752	106.812	12.662	12.662	1.H1-1b
48	GSI-1A	HSS4X4...	.167	2.75	42	.156	.43	z	26	104.752	106.812	12.662	12.662	1.H1-1b
49	CPT-1	PL2x3/8	.158	.25	24	.135	.25	y	35	11.909	24.3	.19	1.012	1.H1-1b
50	CPT-5	PL2x3/8	.157	.25	19	.135	.25	y	42	11.909	24.3	.19	1.012	1.H1-1b
51	CPT-9	PL2x3/8	.157	.25	30	.136	.25	y	42	11.909	24.3	.19	1.012	1.H1-1b
52	CPT-4	PL2x3/8	.121	.25	26	.142	.5	y	39	11.909	24.3	.19	1.012	1.H1-1b
53	CPT-12	PL2x3/8	.121	.25	31	.144	0	y	34	11.909	24.3	.19	1.012	1.H1-1b
54	CPT-8	PL2x3/8	.121	.25	21	.144	.5	y	34	11.909	24.3	.19	1.012	1.H1-1b
55	CPT-6	PL2x3/8	.094	.25	20	.135	.5	y	42	11.909	24.3	.19	1.012	1.H1-1b
56	CPT-10	PL2x3/8	.094	.25	32	.136	0	y	42	11.909	24.3	.19	1.012	1.H1-1b
57	CPT-2	PL2x3/8	.093	.25	18	.133	0	y	36	11.909	24.3	.19	1.012	1.H1-1b
58	MP-9	PIPE 2.0	.062	3.5	21	.018	4.958	28	16.812	32.13	1.872	1.872	1.H1-1b	
59	MP-1	PIPE 2.0	.062	3.5	26	.018	4.958	18	16.812	32.13	1.872	1.872	1.H1-1b	
60	MP-5	PIPE 2.0	.062	3.5	31	.018	4.958	24	16.812	32.13	1.872	1.872	1.H1-1b	

Envelope None Cold Formed Steel Code Checks

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

APPENDIX D
ADDITIONAL CALCULATIONS

Moment Bolt Group - Support Horizontal

Bolt Size: 0.5 in
 # Bolts: 4
 Plate Width: 10 in
 Plate Height: 10 in
 Bolt H Gap: 8 in
 Bolt V Gap: 8 in
 Plate T: 0.75 in
 Slip Member Ø: N/A in
 Bolt Grade: A36
 $F_{u\text{bolt}}$: 58 ksi
 r: 5.6569 in
 J: 128.00 in⁴/in²
 $Bolt_{Area}$: 0.196 in²
 $Bolt_{Area, Net Tensile}$: 0.142 in²
 Pretension: 6 kips
 Slotted Holes: No

Code Checks Per ANSI/TIA-222-H:		
Bolt Capacity =	81.5%	PASS
Plate Capacity =	43.0%	PASS

Plate Bending

Horizontal Member height: 4 in
 Horizontal Member width: 4 in

Plate Fy: 36 ksi

$M_y = 6.2170$ k - in

$Z_y = 1.406$ in³

$S_y = 0.938$ in³

$M_z = 19.5850$ k - in

$Z_z = 1.406$ in³

$S_z = 0.938$ in³

$\emptyset Mp_y (Z)$: 45.563 k - in

$\emptyset Mp_y (S)$: 48.600 k - in

$\emptyset Mp_z (Z)$: 45.563 k - in

$\emptyset Mp_z (S)$: 48.600 k - in

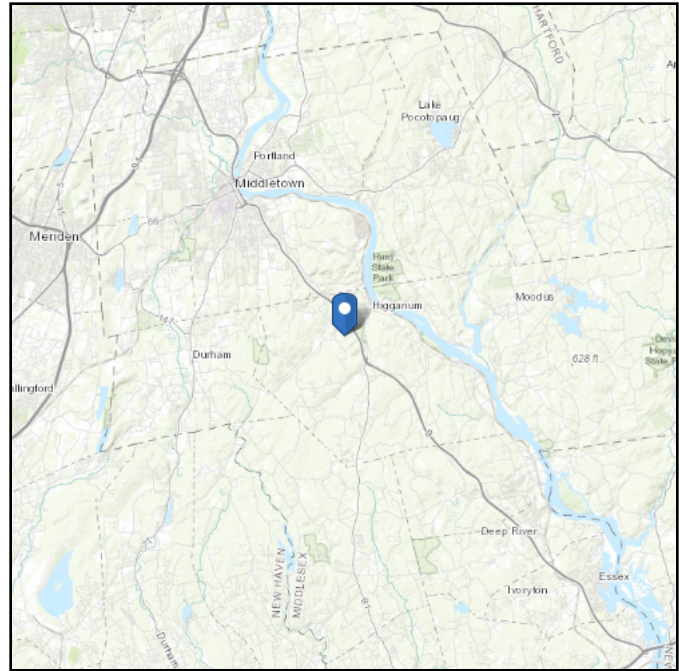
APPENDIX E
ASCE7 HAZARD TOOL WIND MAPS

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: 514.59 ft (NAVD 88)
Latitude: 41.484594
Longitude: -72.572447



Wind

Results:

Wind Speed:	121 Vmph
10-year MRI	75 Vmph
25-year MRI	84 Vmph
50-year MRI	92 Vmph
100-year MRI	99 Vmph

NOTE:
Ultimate wind speed of 130 mph required by county

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

Date Accessed: Tue Apr 21 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.

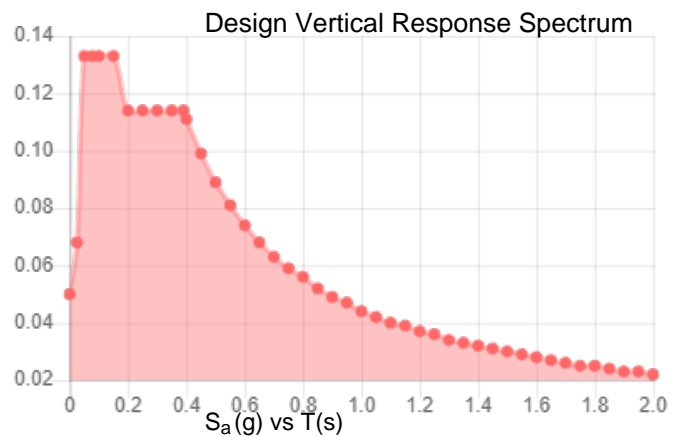
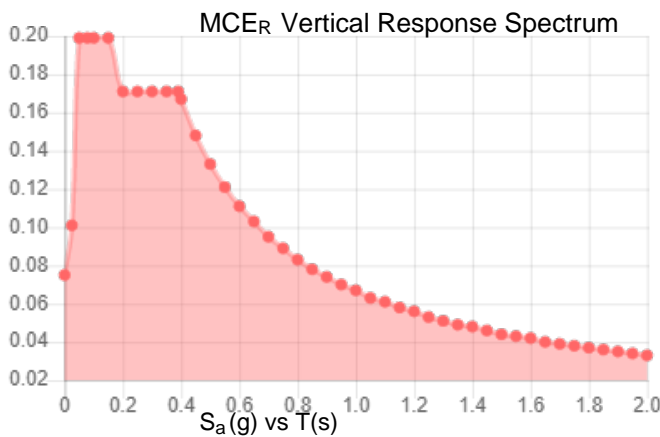
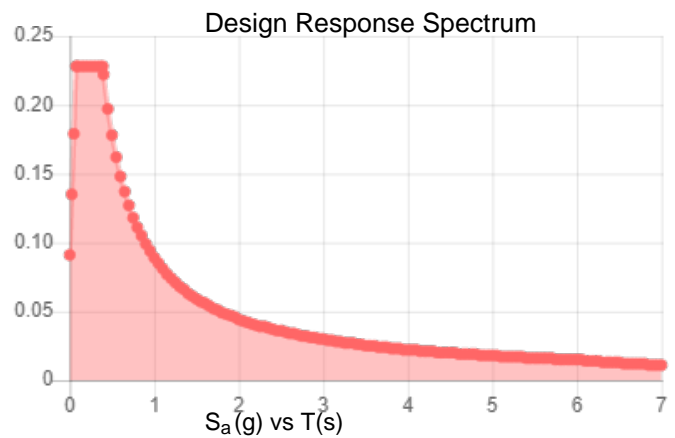
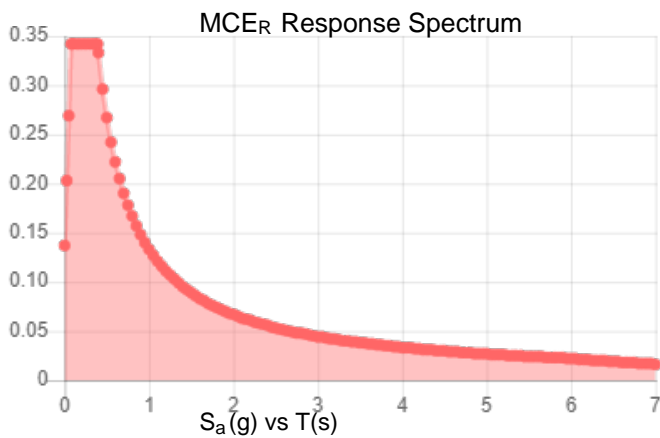
Mountainous terrain, gorges, ocean promontories, and special wind regions should be examined for unusual wind conditions.

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

Results:

S_S :	0.214	S_{D1} :	0.089
S_1 :	0.056	T_L :	6
F_a :	1.6	PGA :	0.12
F_v :	2.4	PGA _M :	0.187
S_{MS} :	0.342	F_{PGA} :	1.56
S_{M1} :	0.133	I_e :	1
S_{DS} :	0.228	C_v :	0.728

Seismic Design Category B



Data Accessed:

Tue Apr 21 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: Tue Apr 21 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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Exhibit F

Power Density/RF Emissions Report

Fullerton Engineering Consultants, LLC.

RF Engineering & Consultant Services

Radio Frequency Emissions Analysis Report

AT&T Existing Facility

Site ID: CT5386

Project Type: AT&T LTE 5C

Haddam North Central
109 Maple Avenue West
Haddam, CT 06441

July 13, 2020

Fullerton Project Number: 2020.0182.0012

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general population allowable limit:	26.56 %

Fullerton Engineering Consultants, LLC.

RF Engineering & Consultant Services

July 13, 2020

Crown Castle on Behalf of AT&T
Attn: Anne Marie Zsamba, Site Acquisition Specialist
3 Corporate Park Drive, Suite 101
Clifton Park, NY 12065

Emissions Analysis for Site: **CT5386 – Haddam North Central**

Fullerton Engineering Consultants, LLC (“Fullerton”) was directed to analyze the proposed upgrades to the AT&T facility located at **109 Maple Avenue West, Haddam, CT**, for the purpose of determining whether the emissions from the proposed AT&T antenna installation located on this property are within specified federal limits.

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

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

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

Population exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limits for the 700 MHz & 850 MHz bands are approximately $467 \mu\text{W}/\text{cm}^2$ and $567 \mu\text{W}/\text{cm}^2$ respectively. The general population exposure limit for the 1900 MHz (PCS) and 2100 MHz (AWS) bands is $1000 \mu\text{W}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.

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

Additional details can be found in FCC OET 65.

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CALCULATIONS

Calculations were performed for the proposed upgrades to the AT&T antenna facility located at **109 Maple Avenue West, Haddam, CT**, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since AT&T is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB for directional panel antennas, was focused at the base of the tower. For this report, the sample point is the top of a 6-foot person standing at the base of the tower.

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

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

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

Technology	Frequency Band	Channel Count	Transmit Power per Channel (W)
UMTS	850 MHz	1	20
LTE	1900 MHz (PCS Band 25)	4	40
LTE	700 MHz (Band 14)	4	40
LTE	2100 MHz (AWS)	4	40
LTE	700 MHz (Band 12)	4	40
LTE / 5G NR	850 MHz	4	40
LTE	1900 MHz (PCS Band 2)	4	40

Table 1: Channel Data Table

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The following antennas listed in *Table 2* were used in the modeling for transmission in the 700 MHz, 850 MHz, 1900 MHz (PCS) and 2100 MHz (AWS) frequency bands. This is based on feedback from the carrier with regards to anticipated antenna selection. Maximum gain values for all antennas are listed in the Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB for directional panel antennas, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.

Sector	Antenna Number	Antenna Make / Model	Antenna Centerline (ft)
A	1	Powerwave 7770	89
A	2	CCI HPA65R-BU6AA	89
A	3	CCI HPA65R-BU6AA	89
A	4	Kathrein 800-10965	89
B	1	Powerwave 7770	89
B	2	CCI HPA65R-BU6AA	89
B	3	CCI HPA65R-BU6AA	89
B	4	Kathrein 800-10965	89
C	1	Powerwave 7770	89
C	2	CCI HPA65R-BU8AA	89
C	3	CCI HPA65R-BU8AA	89
C	4	Kathrein 800-10966	89

Table 2: Antenna Data

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

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Cable losses were factored in the calculations for this site. For each **700 MHz** Remote Radio Unit (RRU) there was **0.18 dB** of cable loss calculated into the system gains / losses for this site. For each **850 MHz** Remote Radio Unit (RRU) there was **0.20 dB** of cable loss calculated into the system gains / losses for this site. For each **850 MHz** ground mounted radio there was **1.14 dB** of cable loss calculated into the system gains / losses for this site. For each **1900 MHz (PCS)** Remote Radio Unit (RRU) there was **0.32 dB** of cable loss calculated into the system gains / losses for this site. For each **2100 MHz (AWS)** Remote Radio Unit (RRU) there was **0.34 dB** of cable loss calculated into the system gains / losses for this site. For each **2300 MHz (WCS)** Remote Radio Unit (RRU) there was **0.35 dB** of cable loss calculated into the system gains / losses for this site. These values were calculated based upon the manufacturers specifications for **10 feet** of **1/2"** coax for all Remote Radio Units (RRU) and **110 feet** of **7/8"** for all ground mounted radios.

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RESULTS

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

Antenna ID	Antenna Make / Model	Frequency Bands	Antenna Gain (dBd)	Channel Count	Total TX Power (W)	ERP (W)	MPE %
Antenna A1	Powerwave 7770	850 MHz	11.4	1	20	212.34	0.20
Antenna A2	CCI HPA65R-BU6AA	1900 MHz (PCS Band 25)	15.95	4	160	5,849.52	3.05
Antenna A3	CCI HPA65R-BU6AA	700 MHz (Band 14) / 2100 MHz (AWS)	12.45 / 16.55	8	320	9,383.77	6.51
Antenna A4	Kathrein 800-10965	700 MHz (Band 12) / 850 MHz / 1900 MHz (PCS Band 2)	12.65 / 13.45 / 15.65	12	400	8,936.79	7.69
Sector A Composite MPE%							17.45
Antenna B1	Powerwave 7770	850 MHz	11.4	1	20	212.34	0.20
Antenna B2	CCI HPA65R-BU6AA	1900 MHz (PCS Band 25)	15.95	4	160	5,849.52	3.05
Antenna B3	CCI HPA65R-BU6AA	700 MHz (Band 14) / 2100 MHz (AWS)	12.45 / 16.55	8	320	9,383.77	6.51
Antenna B4	Kathrein 800-10965	700 MHz (Band 12) / 850 MHz / 1900 MHz (PCS Band 2)	12.65 / 13.45 / 15.65	12	400	8,936.79	7.69
Sector B Composite MPE%							17.45
Antenna C1	Powerwave 7770	850 MHz	11.4	1	20	212.34	0.20
Antenna C2	CCI HPA65R-BU8AA	1900 MHz (PCS Band 25)	14.95	4	160	4,646.44	2.42
Antenna C3	CCI HPA65R-BU8AA	700 MHz (Band 14) / 2100 MHz (AWS)	13.15 / 15.25	8	320	8,126.31	6.13
Antenna C4	Kathrein 800-10966	700 MHz (Band 12) / 850 MHz / 1900 MHz (PCS Band 2)	13.55 / 14.25 / 15.85	12	400	10,400.06	9.11
Sector C Composite MPE%							17.86

Table 3: AT&T Emissions Levels

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

Site Composite MPE%	
Carrier	MPE%
AT&T – Max Sector Value: Sector C	17.86 %
Town	0.89 %
MetroPCS	1.09 %
Verizon Wireless	3.04 %
T-Mobile	3.62 %
Haddam VFD	0.06 %
Site Total MPE %:	26.56 %

Table 4: All Carrier MPE Contributions

AT&T Sector A Total:	17.45 %
AT&T Sector B Total:	17.45 %
AT&T Sector C Total:	17.86 %
Site Total:	26.56 %

Table 5: Site MPE Summary

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FCC OET 65 specifies that for carriers utilizing directional antennas that the highest recorded sector value be used for composite site MPE values due to their greatly reduced emissions contributions in the directions of the adjacent sectors. *Table 6* below details a breakdown by frequency band and technology for the MPE power values for the maximum calculated AT&T sector(s). For this site, the sector with the largest calculated MPE% is **Sector C**.

AT&T _ Frequency Band / Technology Max Power Values (Sector C)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density ($\mu\text{W}/\text{cm}^2$)	Frequency (MHz)	Allowable MPE ($\mu\text{W}/\text{cm}^2$)	Calculated % MPE
AT&T 850 MHz UMTS	1	212.34	89	1.11	850 MHz	567	0.20%
AT&T 1900 MHz (PCS Band 25) LTE	4	1,161.61	89	24.25	1900 MHz (PCS)	1000	2.42%
AT&T 700 MHz LTE (Band 14)	4	792.61	89	16.55	700 MHz	467	3.54%
AT&T 2100 MHz (AWS) LTE	4	1,238.97	89	25.86	2100 MHz (AWS)	1000	2.59%
AT&T 700 MHz LTE (Band 12)	4	869.08	89	18.14	700 MHz	467	3.88%
AT&T 850 MHz LTE	4	1,016.39	89	21.22	850 MHz	567	3.74%
AT&T 1900 MHz (PCS Band 2) LTE / 5G NR	4	714.55	89	14.92	1900 MHz (PCS)	1000	1.49%
						Total:	17.86%

Table 6: AT&T Maximum Sector MPE Power Values

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Summary

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

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

AT&T Sector	Power Density Value (%)
Sector A:	17.45 %
Sector B:	17.45 %
Sector C:	17.86 %
AT&T Maximum Total (Sector C):	17.86 %
Site Total:	26.56 %
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **26.56 %** of the allowable FCC established general population limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

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



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