



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

July 14, 2020

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

**RE: Notice of Exempt Modification for AT&T: 876340**  
**238 Meriden Road, Middlefield, CT 06457**  
**Latitude: 41° 32' 45.60" / Longitude: -72° 42' 53.90"**

Dear Ms. Bachman:

AT&T currently maintains nine (9) antennas at the 131-foot mount on the existing 133-foot Monopole Tower, located at 238 Meriden Road, Middlefield, CT. The tower is owned by Crown Castle and the property is owned by James Kolman. AT&T now intends to replace six (6) existing antennas with six (6) new antennas. The new antennas will be installed at the 131-ft level of the tower. AT&T is also proposing tower mount modifications as shown on the enclosed mount analysis.

The facility was originally approved by the Town of Middlefield Planning and Zoning Commission though the original approval is not able to be located. Please see enclosed email between myself and the Town. This facility was first approved by the Connecticut Siting Council in TS No. TS-OCI-082-990816.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Edward Bailey, First Selectman for the Town of Middlefield, Jerry Russ, Zoning Enforcement Officer, Crown Castle as the tower owner, and James Kolman, the property owner.

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

Melanie A. Bachman

Page 2

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.

Best,

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:

Edward Bailey, First Selectman (*via email only to ebailey@middlefieldct.org*)  
Town of Middlefield  
Selectman's Office  
393 Jackson Hill Road  
Middlefield, CT 06455  
860-349-7114

Jerry Russ, Zoning Enforcement Officer (*via email only to jruss@middlefieldct.org*)  
Town of Middlefield  
Land Use Department  
405 Main Street- Comm Center  
Middlefield, CT 06455  
860-349-7123

James Kolman, Property Owner  
15 Higby Road  
Middlefield, CT 06455

Crown Castle, Tower Owner

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

SHIP DATE: 14JUL20  
ACTWGT: 1.00 LB  
CAD: 104924194IN/ET4220

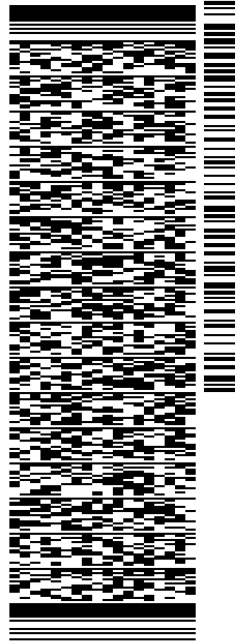
BILL SENDER

TO **JAMES KOLMAN**

**15 HIGBY ROAD**

**MIDDLEFIELD CT 06455**

(201) 236-9224 REF: 1734, 7890  
INV/ PO: DEPT:



J201120042401uv

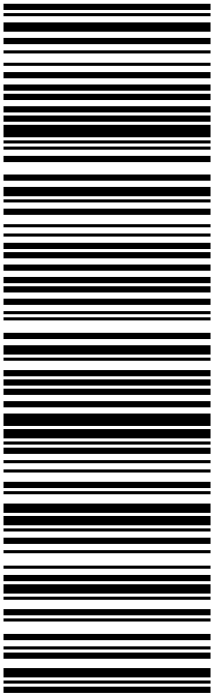
56BJ3/C6A6/FE4A

TRK# 7709 4924 6855  
0201

WED - 15 JUL 10:30A  
PRIORITY OVERNIGHT

**EB RSPA**

06455  
CT-US BDL



**After printing this label:**

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

**Warning:** Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

**From:** [Zsamba, Anne Marie](#)  
**To:** ["ebailey@middlefieldct.org"](mailto:ebailey@middlefieldct.org)  
**Subject:** Notice of Exempt Modification - 238 Meriden Road - AT&T  
**Date:** Tuesday, July 14, 2020 12:44:00 PM  
**Attachments:** [EM-AT&T\\_238 Meriden Rd Middlefield\\_876340\\_notice.pdf](#)

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Dear First Selectman Bailey:

Attached please find AT&T's exempt modification application that is being submitted to the Connecticut Siting Council, today July 14, 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](http://CrownCastle.com)



**From:** [Zsamba, Anne Marie](mailto:Zsamba, Anne Marie)  
**To:** "[jruss@middlefieldct.org](mailto:jruss@middlefieldct.org)"  
**Subject:** Notice of Exempt Modification - 238 Meriden Road - AT&T  
**Date:** Tuesday, July 14, 2020 12:44:00 PM  
**Attachments:** [EM-AT&T\\_238 Meriden Rd Middlefield\\_876340\\_notice.pdf](#)

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3 Corporate Park Drive, Suite 101  
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[CrownCastle.com](http://CrownCastle.com)

# Exhibit A

## **Original Facility Approval**

**From:** [Nancy Davidson](#)  
**To:** [Zsamba, Anne Marie](#)  
**Subject:** FW: Seeking Original Tower Approval: BU - 876340, Site Name - COE HILL, App ID - 479827, Customer Site ID - CT11309, Customer Site Name - Middlefield/Rt 66  
**Date:** Friday, August 30, 2019 11:09:10 AM

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**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Anne Marie unfortunately this is a huge file by Middlefield standards. You can see the First Selectmen's response. I only had time to go briefly through the old parts. I did not know exactly what you need but there is a lot of stuff in the file. Sorry I couldn't be of more help

---

**From:** Edward Bailey  
**Sent:** Thursday, August 29, 2019 12:21 PM  
**To:** Nancy Davidson <[ndavidson@middlefieldct.org](mailto:ndavidson@middlefieldct.org)>  
**Cc:** Edward Bailey <[ebailey@middlefieldct.org](mailto:ebailey@middlefieldct.org)>; Edward Bailey <[ebailey@middlefieldct.org](mailto:ebailey@middlefieldct.org)>  
**Subject:** FW: Seeking Original Tower Approval: BU - 876340, Site Name - COE HILL, App ID - 479827, Customer Site ID - CT11309, Customer Site Name - Middlefield/Rt 66

Cell towers are under the jurisdiction of the Connecticut Siting Council and are not a matter for local jurisdiction, thus there would be no local approval.

## Edward P. Bailey, First Selectman

### Town of Middlefield

393 Jackson Hill Road

P.O. Box 179

Middlefield, CT 06455

860.349.7114

860.349.7115 fax

email: [ebailey@middlefieldct.org](mailto:ebailey@middlefieldct.org)

Website: <http://www.middlefieldct.org>



**From:** Nancy Davidson

**Sent:** Thursday, August 29, 2019 11:19 AM

**To:** Edward Bailey <[ebailey@middlefieldct.org](mailto:ebailey@middlefieldct.org)>

**Subject:** FW: Seeking Original Tower Approval: BU - 876340, Site Name - COE HILL, App ID - 479827, Customer Site ID - CT11309, Customer Site Name - Middlefield/Rt 66

I will go through the files here but if I remember correctly Joe use to have a drawer in the vault with this paperwork also.

---

**From:** Zsamba, Anne Marie [<mailto:AnneMarie.Zsamba@crowncastle.com>]

**Sent:** Thursday, August 29, 2019 8:17 AM

**To:** Jerry Russ <[juss@middlefieldct.org](mailto:juss@middlefieldct.org)>

**Cc:** Nancy Davidson <[ndavidson@middlefieldct.org](mailto:ndavidson@middlefieldct.org)>

**Subject:** Seeking Original Tower Approval: BU - 876340, Site Name - COE HILL, App ID - 479827, Customer Site ID - CT11309, Customer Site Name - Middlefield/Rt 66

Good morning Mr. Russ and Ms. Davidson,

I am seeking your assistance if at all possible in locating the original tower approval for the telecommunications facility located at 238 Meriden Road. I have been unable to locate the Town of Middlefield's decision in any Crown Castles files for this site. If the decision is on record in your office, would it be possible to have an electronic copy emailed to me? Please let me know either way, and I thank you in advance for your time and attention to this matter.

Best,

Anne Marie

**ANNE MARIE ZSAMBA**

Real Estate Specialist

T: (201) 236-9224

F: (724) 416-6112

**CROWN CASTLE**

3 Corporate Park Drive, Suite 101,

Clifton Park, NY 12065

[CrownCastle.com](http://CrownCastle.com)

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# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

Ten Franklin Square  
New Britain, Connecticut 06051  
Phone: (860) 827-2935  
Fax: (860) 827-2950

August 18, 1999

Honorable Charles R. Augur  
First Selectman  
Town of Middlefield  
Town Administration Bldg.  
393 Jackson Hill Road, P.O. Box 179  
Middlefield, CT 06455

RE: TS-OCI-082-990816 – Omnipoint Communications request for an order to approve tower sharing at an existing telecommunications facility located at 238 Meriden Road in Middlefield, Connecticut.

Dear Mr. Augur:

The Connecticut Siting Council (Council) received this request for tower sharing, pursuant to Connecticut General Statutes § 16-50aa.

The Council will consider this item at the next meeting tentatively scheduled for Tuesday, August 31 1999, at 1:30 p.m. in Hearing Room One, Ten Franklin Square, New Britain, Connecticut.

Please call me or inform the Council if you have any questions or comments regarding this proposal.

Thank you for your cooperation and consideration.

Very truly yours,

A handwritten signature in black ink, appearing to read "Joel M. Rinebold".

Joel M. Rinebold  
Executive Director

JMR/tsg

Enclosure: Notice of Tower Sharing



STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

Ten Franklin Square  
New Britain, Connecticut 06051  
Phone: (860) 827-2935  
Fax: (860) 827-2950

September 3, 1999

J. Brendan Sharkey, Esq.  
Omnipoint Communications, Inc.  
100 Filley Street  
Bloomfield, CT 06002

RE: TS-OCI-082-990816 – Omnipoint Communications request for an order to approve tower sharing at an existing telecommunications facility located at 238 Meriden Road in Middlefield, Connecticut.

Dear Mr. Sharkey:

At a public meeting held August 31, 1999, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures.

This facility has been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequency now used on this tower. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction.

The proposed shared use is to be implemented as specified in your letter dated August 16, 1999. Please notify the Council when all work is complete.

Very truly yours,

Mortimer A. Gelston  
Chairman

MAG/RKE/sll

cc: Honorable Charles R. Augur, First Selectman, Town of Middlefield  
Steve Kotfila, Site Development Manager, Sprint Spectrum, L.P.

# Exhibit B

## Property Card

# 238 MERIDEN RD & RT 66

**Location** 238 MERIDEN RD & RT 66

**Mblu** 2 / / 1 / /

**Acct#** 00131600

**Owner** KOLMAN JAMES

**Assessment** \$200,100

**PID** 1412

**Building Count** 1

## Current Value

Assessment			
Valuation Year	Improvements	Land	Total
2016	\$55,100	\$145,000	\$200,100

## Owner of Record

**Owner** KOLMAN JAMES

**Sale Price** \$0

**Co-Owner** NORA L/U

**Certificate**

**Address** C/O 15 HIGBY RD

**Book & Page** 84/ 598

MIDDLEFIELD, CT 06455

**Sale Date** 06/27/1994

## Ownership History

Ownership History				
Owner	Sale Price	Certificate	Book & Page	Sale Date
KOLMAN JAMES	\$0		84/ 598	06/27/1994

## Building Information

### Building 1 : Section 1

**Year Built:** 1850

**Living Area:** 2,390

**Replacement Cost:** \$183,494

**Building Percent** 30

**Good:**

**Replacement Cost**

**Less Depreciation:** \$55,000

Building Attributes	
Field	Description
Style	Old Style
Model	Residential
Grade:	Average +



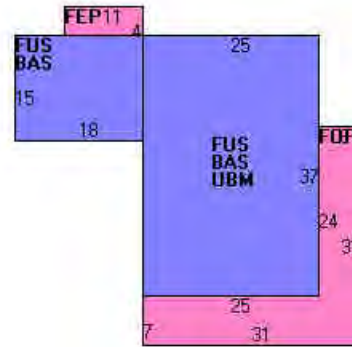
Stories:	2 Stories
Occupancy	1
Exterior Wall 1	Clapboard
Exterior Wall 2	
Roof Structure:	Gable
Roof Cover	Asphalt Shingl
Interior Wall 1	Plastered
Interior Wall 2	
Interior Flr 1	Hardwood
Interior Flr 2	
Heat Fuel	Oil/Gas
Heat Type:	Hot Water
AC Type:	None
Total Bedrooms:	6 Bedrooms
Total Bthrms:	1
Total Half Baths:	0
Total Xtra Fixtrs:	
Total Rooms:	12 Rooms
Bath Style:	Old Style
Kitchen Style:	Below Average
Whirlpool	
Interior	

### Building Photo



(<http://images.vgsi.com/photos/MiddlefieldCTPhotos//\01\00\11/>)

### Building Layout



(<http://images.vgsi.com/photos/MiddlefieldCTPhotos//Sketches/1>)

Building Sub-Areas (sq ft)			Legend	
Code	Description	Gross Area	Living Area	
BAS	First Floor	1,195	1,195	
FUS	Upper Story, Finished	1,195	1,195	
FEP	Porch, Enclosed	44	0	
FOP	Porch, Open	361	0	
UBM	Basement, Unfinished	925	0	
		3,720	2,390	

### Extra Features

Extra Features	Legend
No Data for Extra Features	

### Land

**Land Use**

**Use Code** 0101  
**Description** Single Fam MDL-01  
**Zone** DD1  
**Neighborhood** 0300  
**Alt Land Appr** No  
**Category**

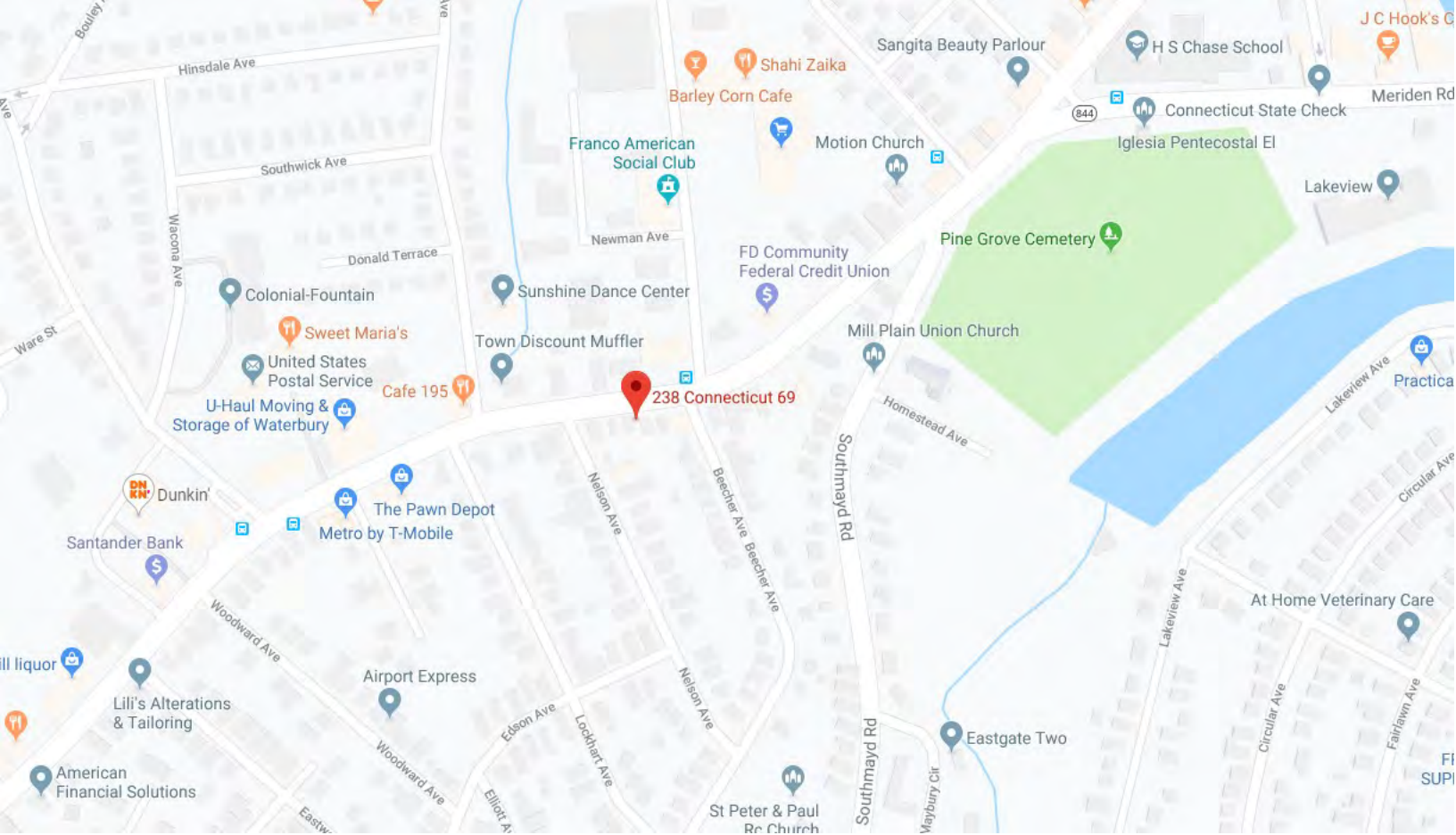
**Land Line Valuation**

**Size (Acres)** 24.54  
**Frontage**  
**Depth**  
**Assessed Value** \$145,000

**Outbuildings**

<b>Outbuildings</b>						<b><u>Legend</u></b>
<b>Code</b>	<b>Description</b>	<b>Sub Code</b>	<b>Sub Description</b>	<b>Size</b>	<b>Value</b>	<b>Bldg #</b>
BRN1	BARN - 1 STORY			4032 S.F.	\$14,500	1
BRN1	BARN - 1 STORY			2560 S.F.	\$9,200	1

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# Exhibit C

## **Construction Drawings**



**AT&T SITE NUMBER:** 25926  
**AT&T SITE NAME:** CTL01143  
**AT&T FA CODE:** 10035379  
**AT&T PACE NUMBER:** MRCTB046705  
**AT&T PROJECT:** LTE 2C/3C/5GNR/4T4R+PACE

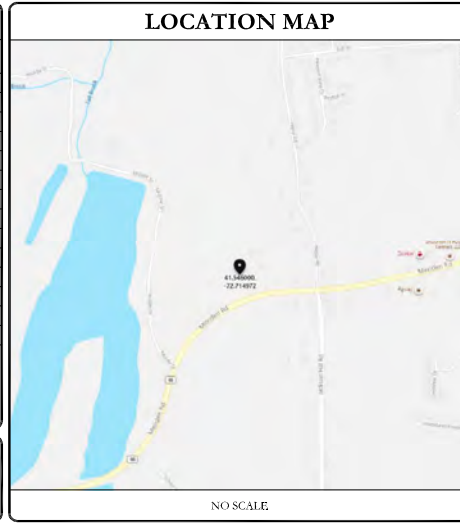
**BUSINESS UNIT #:** 876340  
**SITE ADDRESS:** 238 MERIDEN RD. MIDDLEFIELD, CT 06457  
**COUNTY:** MIDDLESEX  
**SITE TYPE:** MONOPOLE  
**TOWER HEIGHT:** 133'-0"



**AT&T SITE NUMBER: 25926**  
**BU #: 876340**  
**COE HILL**  
 238 MERIDEN RD.  
 MIDDLEFIELD, CT 06457  
 EXISTING 133'-0" MONOPOLE

SITE INFORMATION	
CROWN CASTLE USA INC. SITE NAME:	COE HILL
SITE ADDRESS:	238 MERIDEN RD. MIDDLEFIELD, CT 06457
COUNTY:	MIDDLESEX
MAP/PARCEL #:	MFLD-000002-000000-000001
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41° 32' 45.60"
LONGITUDE:	-72° 42' 53.90"
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	441 FT.
CURRENT ZONING:	PC
JURISDICTION:	TOWN OF MIDDLEFIELD
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	UB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	CROWN CASTLE TOWERS 09 LLC POST OFFICE BOX 203469 C/O CROWN CASTLE INVESTMENT CORP SOLE HOUSTON, TX 77216-3469
TOWER OWNER:	GLOBAL SIGNAL ACQUISITIONS II LLC 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	AT&T TOWER ASSET GROUP 575 MOROSGO DRIVE ATLANTA, GA 30324-3300
ELECTRIC PROVIDER:	CONNECTICUT LIGHT & POWER CO (800) 922-4455
TELCO PROVIDER:	AT&T (866) 620-6900

DRAWING INDEX	
SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1.1	SITE PLAN
C-1.2	EXISTING & FINAL EQUIPMENT PLANS
C-2	FINAL ELEVATION & ANTENNA PLANS
C-3	FINAL EQUIPMENT SCHEDULE
C-4	EQUIPMENT SPECS
C-5	EQUIPMENT SPECS
G-1	GROUNDING SCHEMATIC
G-2	GROUNDING DETAILS
ATTACHED	PLUMBING DIAGRAM
ATTACHED	HANDRAIL REINFORCEMENT KIT SPECIFICATION
ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR I1X17. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.	
CALL CONNECTICUT ONE CALL (800) 922-4455 CIVIL.COM CALL 2 WORKING DATES BEFORE YOU DIG	



PROJECT TEAM	
A&E FIRM:	CROWN CASTLE USA INC. 2000 CORPORATE DRIVE CANONSBURG, PA 15317 CROWN.AE.APPROVAL@CROWNCASTLE.COM
CROWN CASTLE USA INC. DISTRICT CONTACTS:	3 CORPORATE PARK DRIVE, SUITE 101 CLIFTON PARK, NY 12065  VERONICA DELIA - PROJECT MANAGER (610) 635-3222  JASON D'AMICO - CONSTRUCTION MANAGER (860) 209-0104

PROJECT DESCRIPTION
THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.
<b>TOWER SCOPE OF WORK:</b> <ul style="list-style-type: none"> <li>REMOVE (3) POWER WAVE - P65-15-XLHRR ANTENNAS</li> <li>REMOVE (2) KMPV - ANX-CD-16-65-00P-RET ANTENNAS</li> <li>REMOVE (1) KMPV - ANX-CD-14-65-00P-RET ANTENNA</li> <li>REMOVE (3) ERICSSON - RRUS-11 B2 RRUs</li> <li>REMOVE (6) KATHREIN - 860-10025 TOWER MOUNT SWITCH</li> <li>REMOVE (6) POWER WAVE - CM1007-DBP38C-003 DUPLEXERS</li> <li>REMOVE (3) POWER WAVE - TT19-088P111-001 TMAs</li> <li>REMOVE (6) COAX CABLES-1/4"</li> <li>INSTALL (2) CCL - OP465R-BU4DA ANTENNAS</li> <li>INSTALL (2) CCL - DMP465R-BU4DA ANTENNAS</li> <li>INSTALL (1) CCL - OP465R-BU4DA ANTENNAS</li> <li>INSTALL (1) CCL - DMP465R-BU4DA ANTENNAS</li> <li>INSTALL (3) ERICSSON - 4449 B5 B12 RRUs</li> <li>INSTALL (3) ERICSSON - 8843 B2/B6A RRUs</li> <li>INSTALL (2) RAYCAP - DC648-60-18-8F</li> <li>INSTALL (1) FIBER CABLE</li> <li>INSTALL (2) #8AWG DC CABLES</li> <li>INSTALL MOUNT MODIFICATION PER MOUNT ANALYSIS BY TOWER ENGINEERING PROFESSIONALS, DATED MAY 21, 2020</li> </ul>
<b>GROUND SCOPE OF WORK:</b> <ul style="list-style-type: none"> <li>REMOVE (5) POWER PLANT</li> <li>INSTALL (2) 6630 - IDLE</li> <li>INSTALL (1) EMERSON - 7100 POWER PLANT</li> <li>INSTALL (1) FIB RACK</li> <li>INSTALL (1) RAYCAP - DC12-48-60-8M</li> </ul>
<b>INSTALLER NOTE:</b> NO PROPOSED LOADING TO BE ADDED UNTIL MOUNT MODIFICATIONS ARE INSTALLED PER MOUNT ANALYSIS BY TOWER ENGINEERING PROFESSIONALS DATED MAY 21, 2020.

APPLICABLE CODES/REFERENCE DOCUMENTS								
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:								
<table border="0"> <tr> <td>CODE TYPE</td> <td>CODE</td> </tr> <tr> <td>BUILDING</td> <td>2018 CT STATE BUILDING CODE/2015 IBC W/ CT AMENDMENTS</td> </tr> <tr> <td>MECHANICAL</td> <td>2018 CT STATE BUILDING CODE/2015 IMC W/ CT AMENDMENTS</td> </tr> <tr> <td>ELECTRICAL</td> <td>2018 CT STATE BUILDING CODE/2017 NEC W/ CT AMENDMENTS</td> </tr> </table>	CODE TYPE	CODE	BUILDING	2018 CT STATE BUILDING CODE/2015 IBC W/ CT AMENDMENTS	MECHANICAL	2018 CT STATE BUILDING CODE/2015 IMC W/ CT AMENDMENTS	ELECTRICAL	2018 CT STATE BUILDING CODE/2017 NEC W/ CT AMENDMENTS
CODE TYPE	CODE							
BUILDING	2018 CT STATE BUILDING CODE/2015 IBC W/ CT AMENDMENTS							
MECHANICAL	2018 CT STATE BUILDING CODE/2015 IMC W/ CT AMENDMENTS							
ELECTRICAL	2018 CT STATE BUILDING CODE/2017 NEC W/ CT AMENDMENTS							
<b>REFERENCE DOCUMENTS:</b> STRUCTURAL ANALYSIS: PAUL J. FORD & COMPANY DATED: JUNE 1, 2020 MOUNT MODIFICATION ANALYSIS: TOWER ENGINEERING PROFESSIONALS DATED: MAY 21, 2020 RFD #: 3788627 DATED: 4/3/2020 ORDER ID: 517073 REVISION: 0								
<b>NOTE:</b> PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN NOC AT (800) 788-7011 & CROWN CONSTRUCTION MANAGER.								

ISSUED FOR:				
REV	DATE	DRWN	DESCRIPTION	DES./QA
A	05/13/20	EA	PRELIMINARY	EO
B	06/03/20	EA	PRELIMINARY	EO
C	06/30/20	EA	CONSTRUCTION	JL

DocuSigned by:  
 Justina Lusetti  
 184053828

6/30/2020 4:06:23 PM EDT

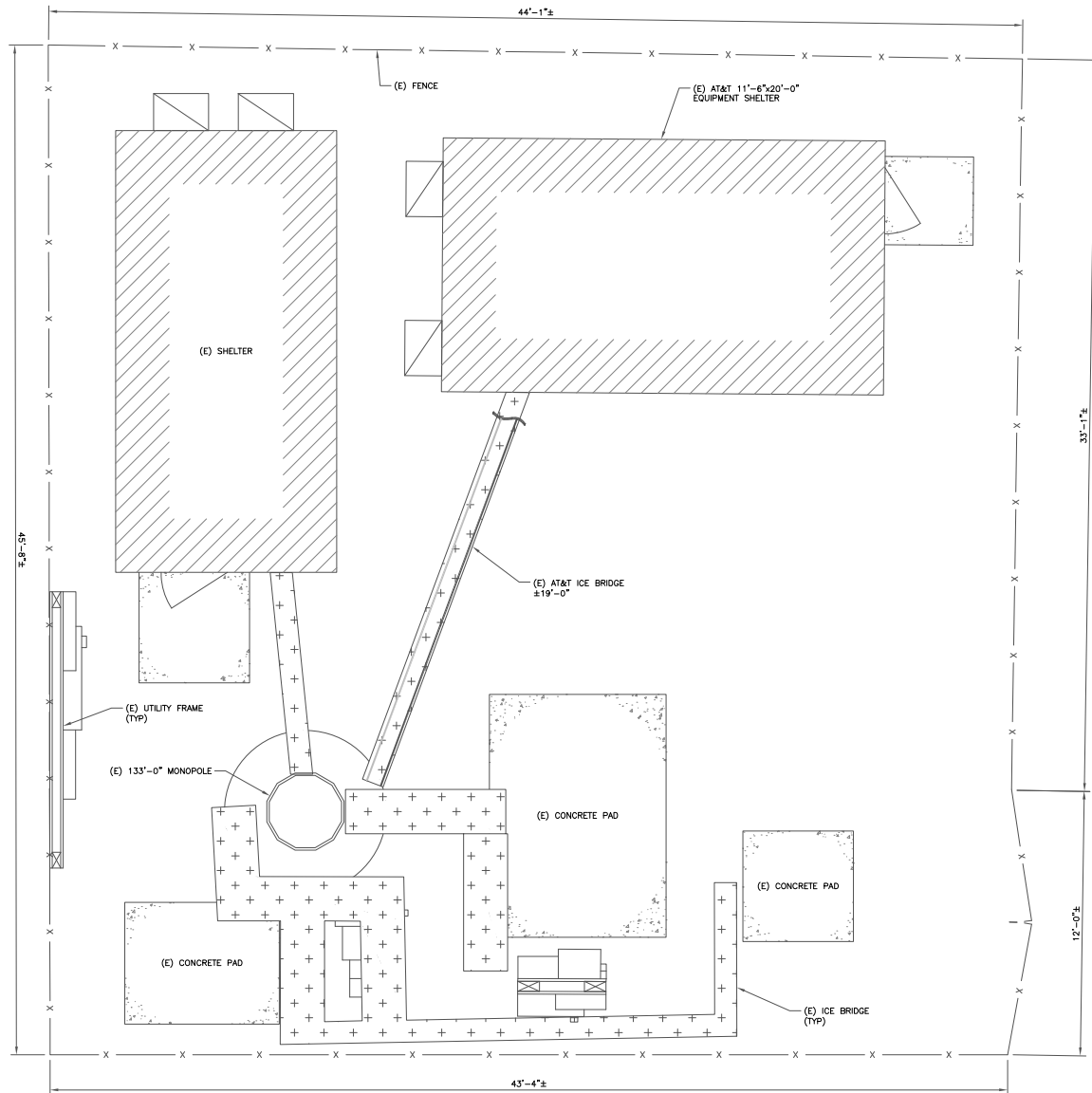
Corps Castle USA, Inc. Certificate of Registration #PE-000101

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

<b>SHEET NUMBER:</b>	<b>REVISION:</b>
T-1	0







1 SITE PLAN  
SCALE: 3/8"=1'-0" (FULL SIZE)  
3/16"=1'-0" (1:12)



AT&T SITE NUMBER: 25926

BU #: 876340  
COE HILL

238 MERIDEN RD.  
MIDDLEFIELD, CT 06457

EXISTING 133'-0" MONOPOLE

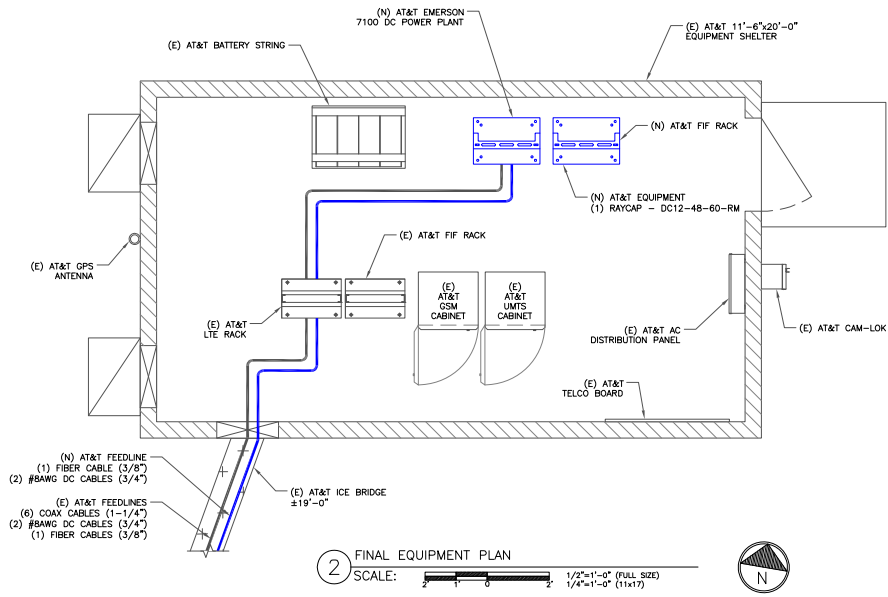
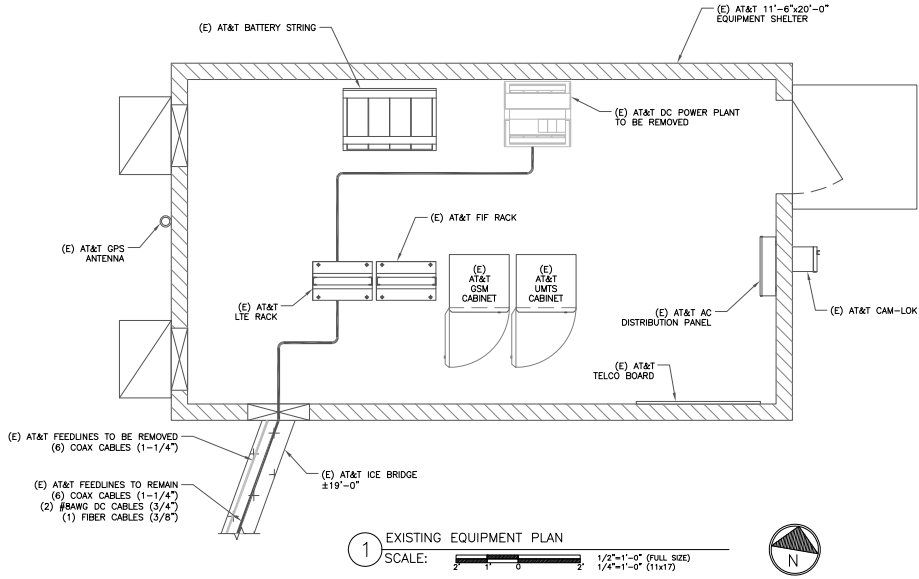
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	05/13/20	EA	PRELIMINARY	EO
B	06/03/20	EA	PRELIMINARY	EO
C	06/30/20	EA	CONSTRUCTION	JL

DocuSigned by:  
**Justin Lavette**  
184083873  
No. 31965  
PROFESSIONAL ENGINEER  
6/30/2020 4:06:23 PM EDT  
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SHEET NUMBER: **C-1.1** REVISION: **0**



**GROUND SCOPE OF WORK:**

- +REMOVE (E) POWER PLANT
- +INSTALL (2) 8630 + IDLE
- +INSTALL (1) EMERSON - 7100 POWER PLANT
- +INSTALL (1) FIF RACK
- +INSTALL (1) RAYCAP - DC12-48-60-RM

**NOTE:**

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



AT&T SITE NUMBER: 25926

BU #: 876340  
COE HILL

238 MERIDEN RD.  
MIDDLEFIELD, CT 06457

EXISTING 133'-0" MONOPOLE

**ISSUED FOR:**

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C	05/30/20	EA	CONSTRUCTION	JL

DocuSigned by:  
**Justin Lavette**  
1840038376

6/30/2020 4:06:23 PM EDT

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SHEET NUMBER: **C-1.2** REVISION: **0**





FINAL EQUIPMENT SCHEDULE (VERIFY WITH CURRENT RFDS)																		
ALPHA																		
POSITION	ANTENNA				RADIO				DIPLEXER		TMA		SURGE PROTECTION		CABLES			
	TECH.	STATUS/MANUFACTURER MODEL	AZIMUTH	RAD CENTER	QTY.	STATUS/MODEL	LOCATION	QTY.	STATUS	LOCATION	QTY.	STATUS	QTY.	STATUS/MODEL	QTY.	STATUS/TYPE	SIZE	LENGTH
A1	UMTS	(E) POWERWAVE TECH P65-15-XLH-RR	10°	133°-0"	-	-	-	2	(E)	TOWER	2	(E)	-	-	2	(E) COAX	1-1/4"	182'-0"
A2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A3	LTE	(N) CCI OPA65R-BU6DA	10°	133°-0"	-	-	-	-	-	-	-	-	1	(E) DC6-48-60-18-BF	2	(E) #8AWG DC	3/4"	182'-0"
															1	(E) FIBER	3/8"	182'-0"
A4	LTE/5G	(N) CCI DMP65R-BU6DA	10°	133°-0"	1	(N) 4449 B5/B12	TOWER	-	-	-	-	-	-	-	-	-	-	-
					1	(N) 8843 B2/B66A	TOWER	-	-	-	-	-	-	-	-	-	-	-
BETA																		
B1	UMTS	(E) POWERWAVE TECH P65-15-XLH-RR	130°	133°-0"	-	-	-	2	(E)	TOWER	2	(E)	-	-	2	(E) COAX	1-1/4"	182'-0"
B2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B3	LTE	(N) CCI OPA65R-BU6DA	130°	133°-0"	-	-	-	-	-	-	-	-	1	(N) DC6-48-60-18-BF	1	(N) FIBER	3/8"	182'-0"
						(N) 4449 B5/B12	TOWER	-	-	-	-	-	-	-	-	-	-	-
B4	LTE/5G	(N) CCI DMP65R-BU6DA	130°	133°-0"	-	(N) 8843 B2/B66A	TOWER	-	-	-	-	-	-	-	-	-	-	-
GAMMA																		
C1	UMTS	(E) POWERWAVE TECH P65-15-XLH-RR	260°	133°-0"	-	-	-	2	(E)	TOWER	2	(E)	-	-	2	(E) COAX	1-1/4"	182'-0"
C2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C3	LTE	(N) CCI OPA65R-BU4DA	260°	133°-0"	-	-	-	-	-	-	-	-	1	(N) DC6-48-60-18-BF	2	(N) #8AWG DC	3/4"	182'-0"
						(N) 4449 B5/B12	TOWER	-	-	-	-	-	-	-	-	-	-	-
C4	LTE/5G	(N) CCI DMP65R-BU4DA	260°	133°-0"	-	(N) 8843 B2/B66A	TOWER	-	-	-	-	-	-	-	-	-	-	-

NOTE:  
(E) - EXISTING  
(N) - NEW



AT&T SITE NUMBER: 25926

BU #: 876340  
COE HILL

238 MERIDEN RD.  
MIDDLEFIELD, CT 06457

EXISTING 133'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	05/13/20	EA	PRELIMINARY	EO
B	05/03/20	EA	PRELIMINARY	EO
C	05/30/20	EA	CONSTRUCTION	JL

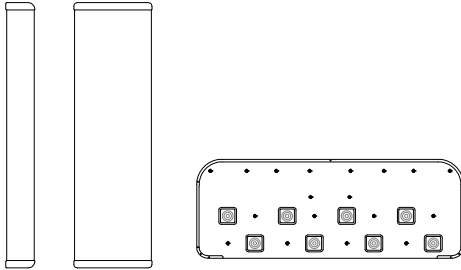
DocuSigned by:  
**Justin Lavette**  
1840893876

6/30/2020 4:06:23 PM EDT

Crown Castle USA, Inc. Certificate of Registration #PEC-0001101

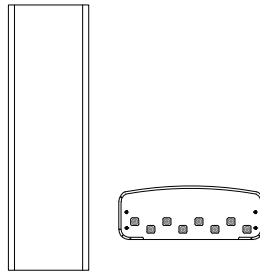
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SHEET NUMBER: **C-3** REVISION: **0**



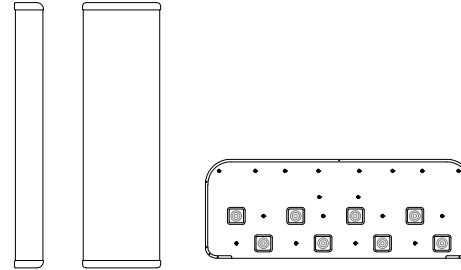
CCI ANTENNAS - OPA65R-BU6DA  
 WEIGHT (WITHOUT MOUNTING HARDWARE): 60.2 LBS  
 SIZE (HxWxD): 71.2x21.0x7.8 IN.  
 MOUNTING HARDWARE P/N: MBK-01  
 RATED WIND VELOCITY: 150.0 MPH

① CCI ANTENNAS - OPA65R-BU6DA  
 SCALE: NOT TO SCALE



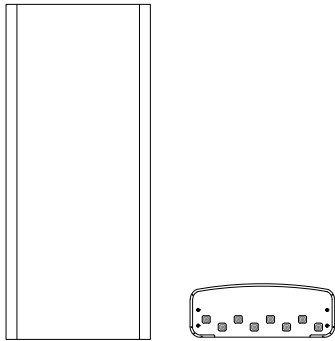
CCI ANTENNAS - DMP65R-BU6DA  
 WEIGHT (WITHOUT MOUNTING HARDWARE): 89.3 LBS  
 SIZE (HxWxD): 71.2x20.7x7.7 IN.

② CCI ANTENNAS - DMP65R-BU6DA  
 SCALE: NOT TO SCALE



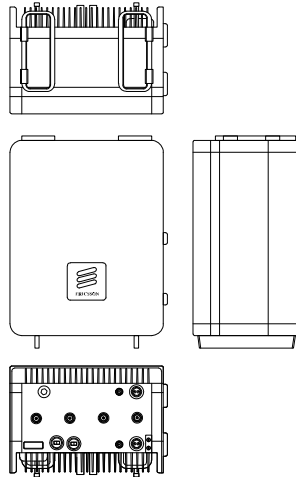
CCI ANTENNAS - OPA65R-BU4DA  
 WEIGHT (WITHOUT MOUNTING HARDWARE): 62.3 LBS  
 SIZE (HxWxD): 48x21.0x7.8 IN.  
 RATED WIND VELOCITY: 150.0 MPH

③ CCI ANTENNAS - OPA65R-BU4DA  
 SCALE: NOT TO SCALE



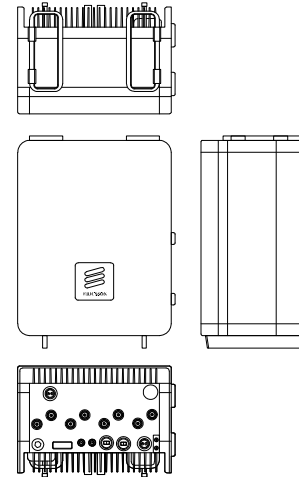
CCI ANTENNAS - DMP65R-BU4DA  
 WEIGHT (WITHOUT MOUNTING HARDWARE): 76.5 LBS  
 SIZE (HxWxD): 48x20.7x7.7 IN.

④ CCI ANTENNAS - DMP65R-BU4DA  
 SCALE: NOT TO SCALE



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

⑤ ERICSSON - RADIO 4449 B5/B12  
 SCALE: NOT TO SCALE



ERICSSON - RADIO 8843 B2/B66A  
 WEIGHT: 75.0 LBS  
 SIZE (HxWxD): 18.0x13.2x11.3 IN.

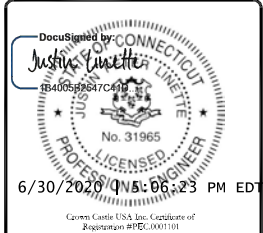
⑥ ERICSSON - RADIO 8843 B2/B66A  
 SCALE: NOT TO SCALE



AT&T SITE NUMBER: 25926  
 BU #: 876340  
 COE HILL  
 238 MERIDEN RD.  
 MIDDLEFIELD, CT 06457  
 EXISTING 133'-0" MONOPOLE

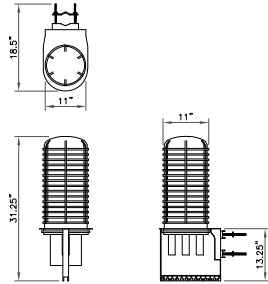
ISSUED FOR:

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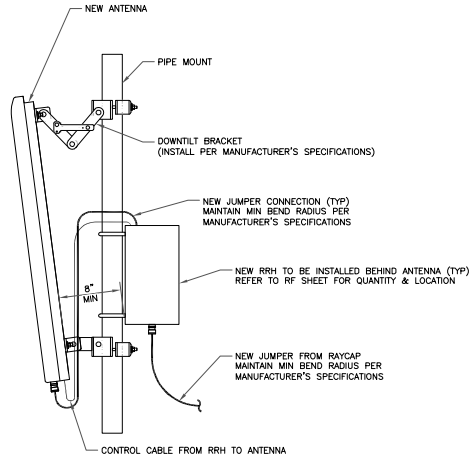
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SHEET NUMBER: **C-4** REVISION: **0**

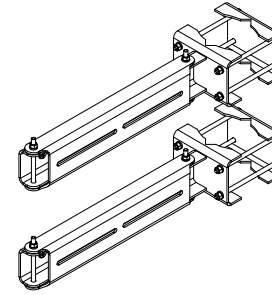


RAYCAP - DC6-48-60-18-8F  
WEIGHT (WITHOUT MOUNTING HARDWARE): 20.0 LBS  
SIZE (HMMO): 31.25x11.0x11.0 IN.

① RAYCAP - DC6-48-60-18-8F  
SCALE: NOT TO SCALE



② GENERIC ANTENNA MOUNTING ELEVATION  
SCALE: NOT TO SCALE



VALMONT - RRUDSM  
DUAL SWIVEL MOUNT KITS FOR RRUs  
(2 SWIVEL MOUNTS PER KIT)

③ VALMONT - RRUDSM  
SCALE: NOT TO SCALE

④ NOT USED  
SCALE: NOT TO SCALE

⑤ NOT USED  
SCALE: NOT TO SCALE

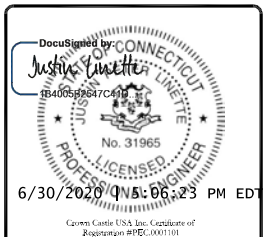
⑥ NOT USED  
SCALE: NOT TO SCALE



AT&T SITE NUMBER: 25926  
  
BU #: 876340  
COE HILL  
  
238 MERIDEN RD.  
MIDDLEFIELD, CT 06457  
  
EXISTING 133'-0" MONOPOLE

ISSUED FOR:

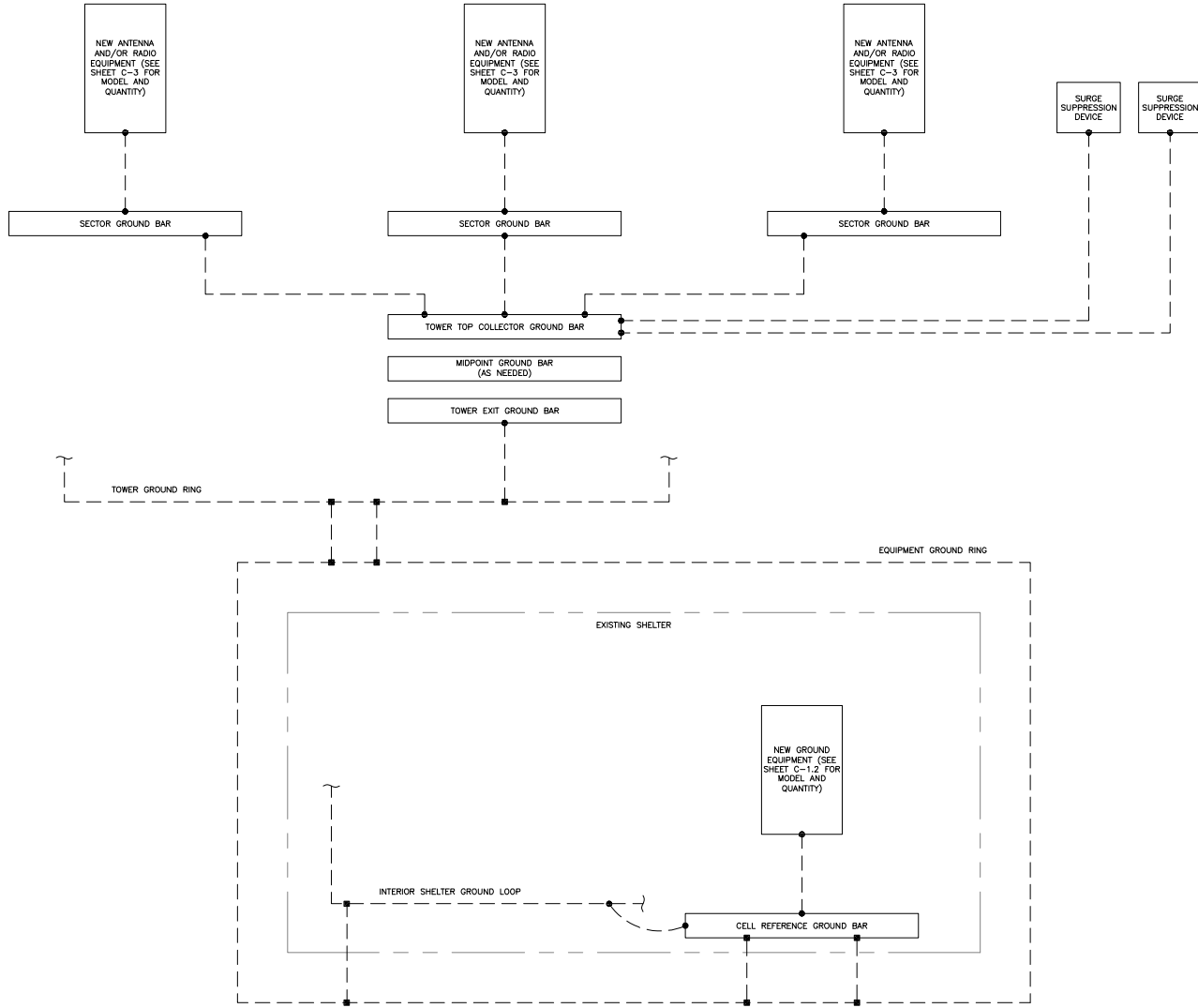
REV	DATE	DRWN	DESCRIPTION	DES./QA
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SHEET NUMBER: **C-5** REVISION: **0**



1 GROUNDING SCHEMATIC  
SCALE: NOT TO SCALE

**GROUNDING PLAN LEGEND:**

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

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

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

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

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



AT&T SITE NUMBER: 25926

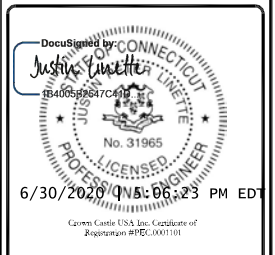
BU #: 876340  
COE HILL

238 MERIDEN RD.  
MIDDLEFIELD, CT 06457

EXISTING 133'-0" MONOPOLE

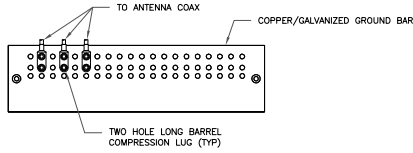
**ISSUED FOR:**

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C	05/30/20	EA	CONSTRUCTION	JL



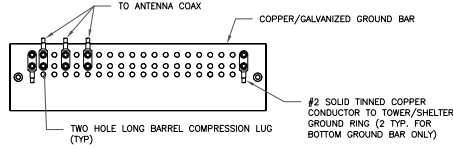
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SHEET NUMBER: **G-1** REVISION: **0**



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

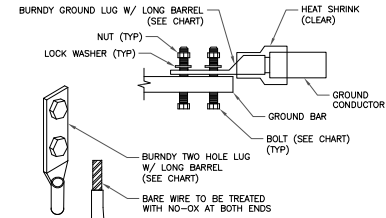
1 ANTENNA SECTOR GROUND BAR DETAIL  
SCALE: NOT TO SCALE



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

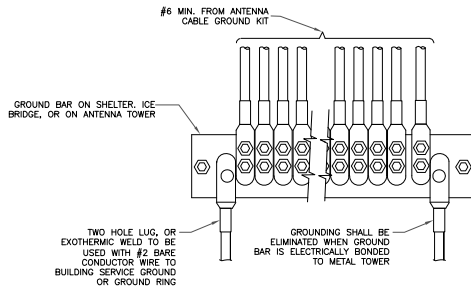
2 TOWER/SHELTER GROUND BAR DETAIL  
SCALE: NOT TO SCALE

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

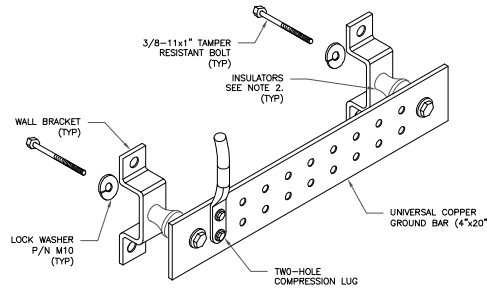


- NOTE:
- ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, TYP WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

3 MECHANICAL LUG CONNECTION  
SCALE: NOT TO SCALE

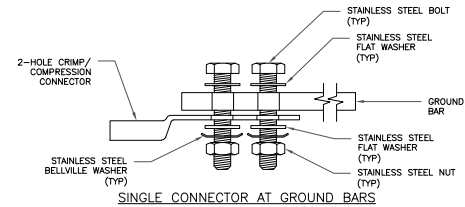


4 GROUNDWIRE INSTALLATION  
SCALE: NOT TO SCALE

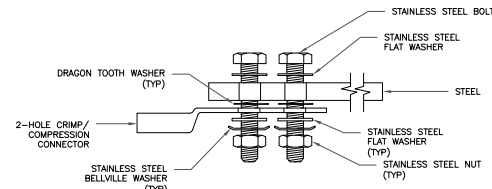


- NOTES:
1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER. PER THE GROUNDING DOWN CONDUCTOR POLICY GAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
  2. OMIT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

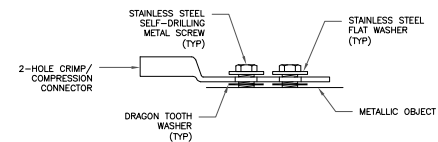
5 GROUND BAR DETAIL  
SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS

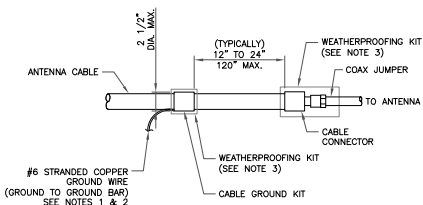


SINGLE CONNECTOR AT STEEL OBJECTS



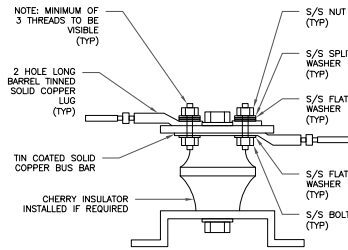
SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

8 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS  
SCALE: NOT TO SCALE



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

6 CABLE GROUND KIT CONNECTION  
SCALE: NOT TO SCALE



7 LUG DETAIL  
SCALE: NOT TO SCALE



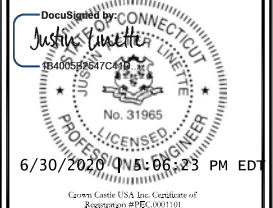
AT&T SITE NUMBER: 25926

BU #: 876340  
COE HILL

238 MERIDEN RD.  
MIDDLEFIELD, CT 06457

EXISTING 133'-0" MONOPOLE

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SHEET NUMBER: **G-2** REVISION: **0**



Diagram - Sector A Diagram File Name - CT1143\_A\_B\_C\_LTE\_700BC\_850\_PCS\_AWS\_Rev1.vsd  
 Atoll Site Name - CTL01143 Location Name - MIDDLEFIELD NORTH Market - CONNECTICUT Market Cluster - NEW ENGLAND  
 Comments - Important Note: For detailed radio to antenna wiring refer to the latest field notice - Antenna Radio Connection Drawings Playbook v6.0 - Ericsson

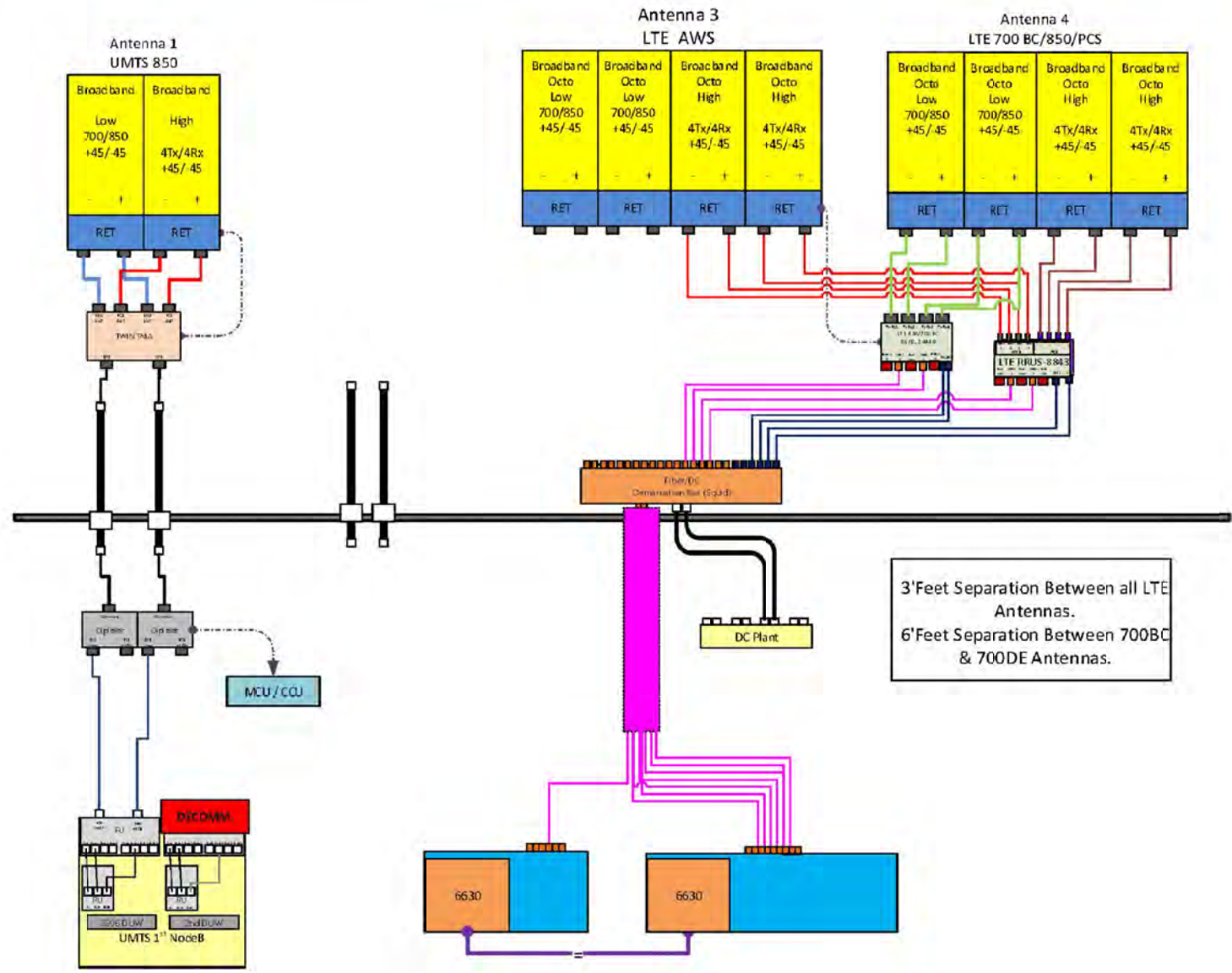


Diagram - Sector B Diagram File Name - CT1143\_A\_B\_C\_LTE\_700BC\_850\_PCS\_AWS\_Rev1.vsd  
 Atoll Site Name - CTL01143 Location Name - MIDDLEFIELD NORTH Market - CONNECTICUT Market Cluster - NEW ENGLAND  
 Comments - Important Note: For detailed radio to antenna wiring refer to the latest field notice - Antenna Radio Connection Drawings Playbook v6.0 - Ericsson

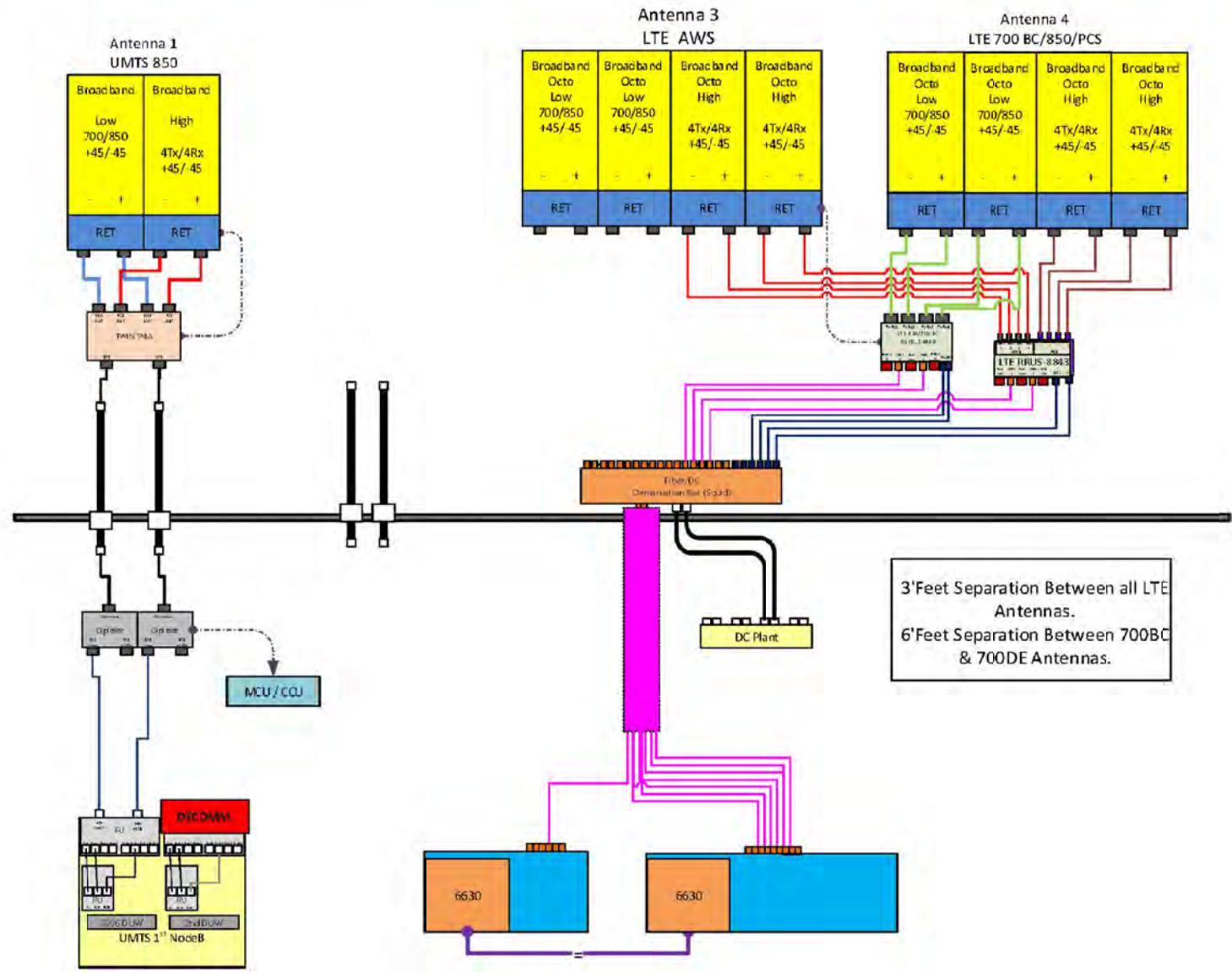
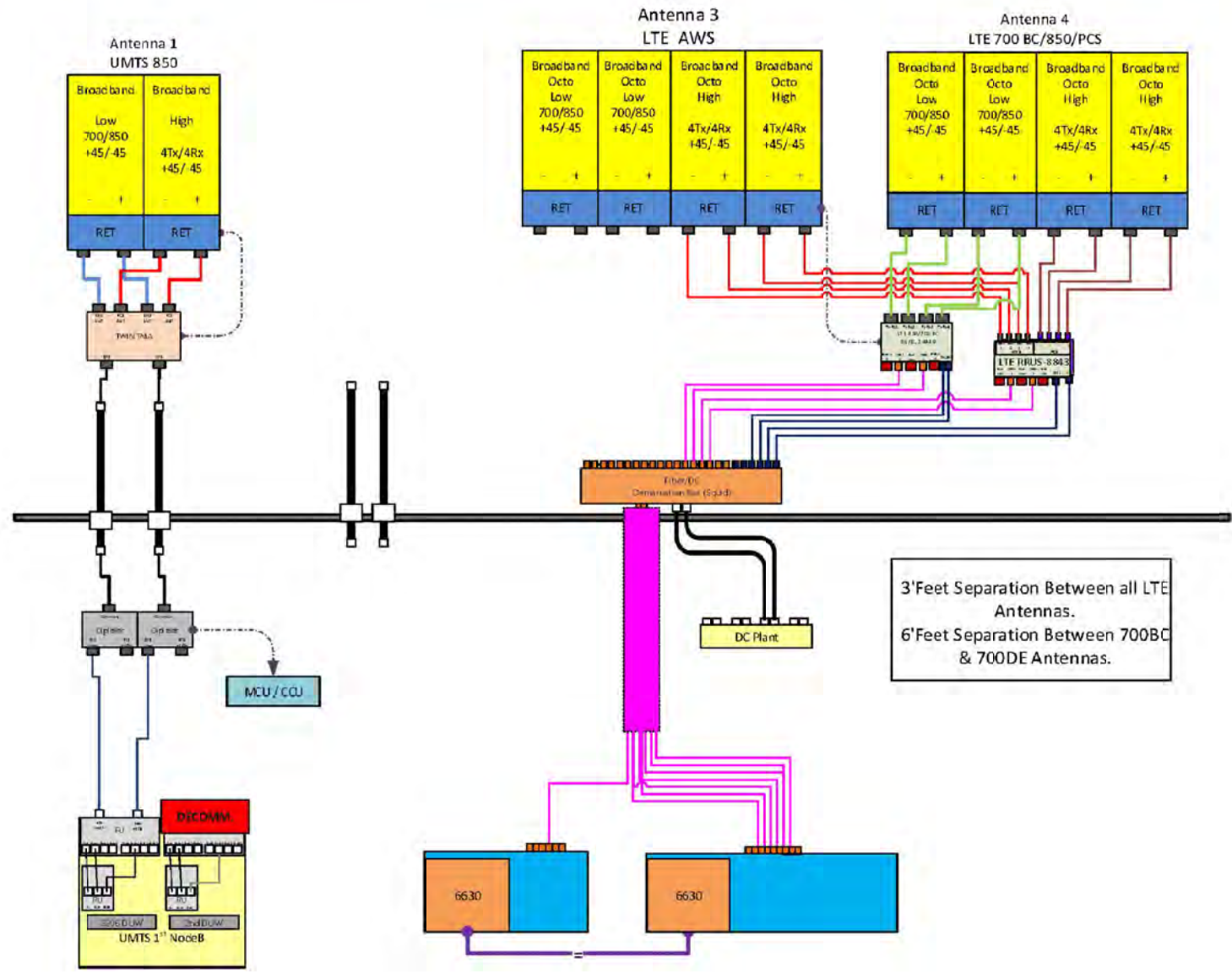
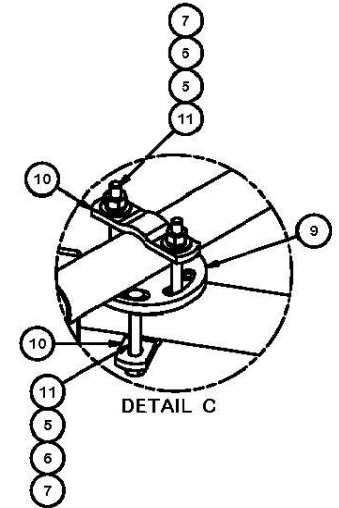
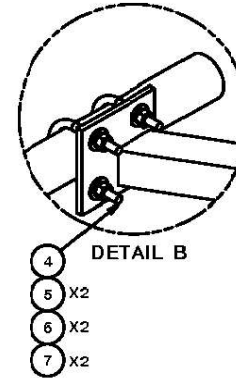
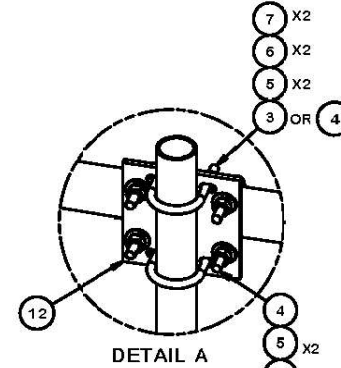
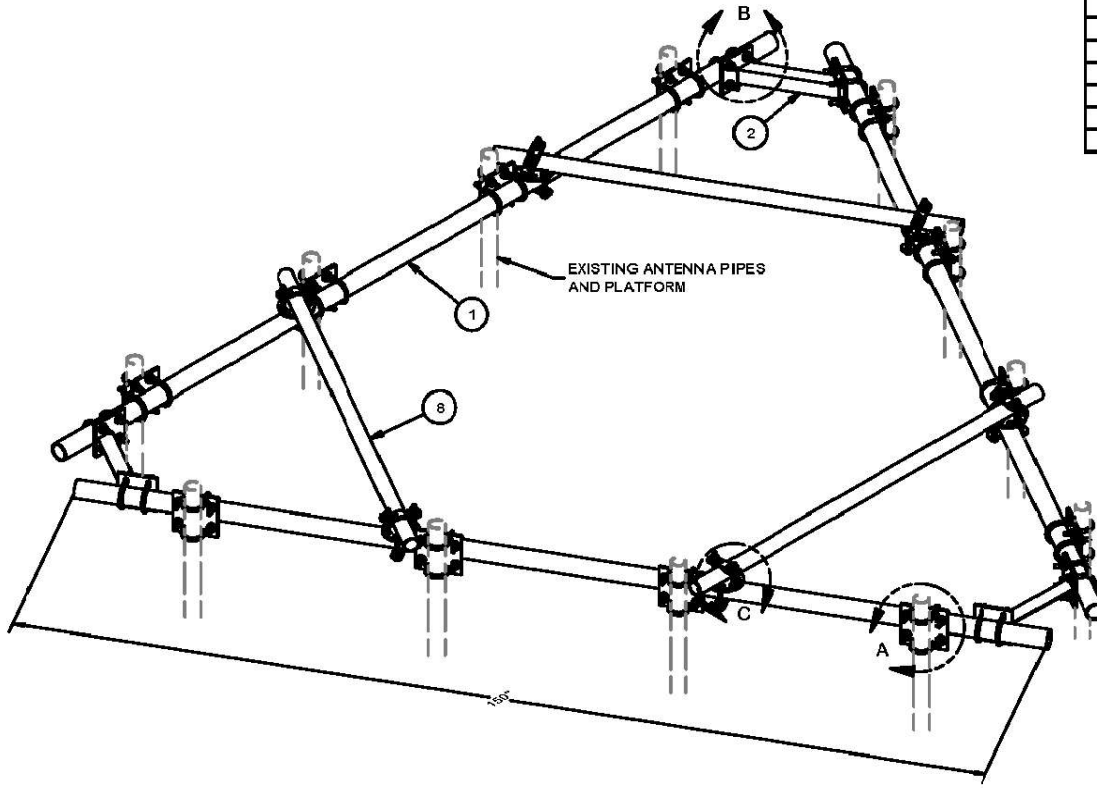




Diagram - Sector C Diagram File Name - CT1143\_A\_B\_C\_LTE\_700BC\_850\_PCS\_AWS\_Rev1.vsd  
Alt/ Site Name - CTL01143 Location Name - MIDDLEFIELD NORTH Market - CONNECTICUT Market Cluster - NEW ENGLAND  
Comments - Important Note: For detailed radio to antenna wiring refer to the latest field notice - Antenna Radio Connection Drawings Playbook v6.0 - Ericsson



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	P30150	2-7/8" O.D. X 150" SCH. 40 PIPE	150 in	76.94	230.81
2	3	X-AHCP	ANGLE HANDRAIL CORNER PLATE		12.92	38.76
3	24	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.73	17.56
4	60	X-UB1300	1/2" X 3" X 5" X 2" U-BOLT (HDG.)		0.73	43.90
5	144	G12FW	1/2" HDG USS FLATWASHER		0.03	4.91
6	144	G12LW	1/2" HDG LOCKWASHER		0.01	2.00
7	144	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	10.31
8	3	P272	2-3/8" X 72" SCH 40 GALVANIZED PIPE	72 in	23.07	69.20
9	6	X-127594	FLAT DISK CLAMP PLATE 4" CENTERS (GALVANIZED)		2.48	14.90
10	12	X-100064	CLAMP (S) (4" V-CLAMP) GALVANIZED		0.91	10.95
11	24	G1204	1/2" x 4" HDG HEX BDLT GR 5 FULL THREAD	4 in	0.27	6.48
12	12	SCX2	CROSSOVER PLATE	7 in	4.80	57.56
					TOTAL WT. #	502.34



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

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DESCRIPTION  
 HEAVY DUTY HANDRAIL KIT  
 FOR 12' PLATFORMS WITH  
 2-7/8" HANDRAIL PIPES

**SITE PRO**  
 A valmont CONCRETE  
 Locations:  
 New York, NY  
 Atlanta, GA  
 Los Angeles, CA  
 Plymouth, IN  
 Salem, OR  
 Dallas, TX  
 Engineering Support Team:  
 1-888-753-7446

CPD NO.	DRAWN BY CEK	ENG. APPROVAL
CLASS 81	SUB 01	DRAWING USAGE CUSTOMER
CHECKED BY BMC		DATE 4/7/2015

PART NO. HRK12-3HD	DWG. NO. HRK12-3HD
1 OF 1	

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Subject: Please DocuSign: 25926_876340_COE HILL_AT&T LTE 5C FCD_REV 0_6.30.20.pdf	
Source Envelope:	
Document Pages: 14	Signatures: 10
Certificate Pages: 3	Initials: 0
AutoNav: Enabled	Envelope Originator:
Envelopeld Stamping: Enabled	Phillip Lander
Time Zone: (UTC-05:00) Eastern Time (US & Canada)	2000 Corporate Drive
	Canonsburg, PA 15317
	Phil.Lander@crowncastle.com
	IP Address: 162.254.108.200


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### Signature



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<b>Carbon Copy Events</b>	<b>Status</b>	<b>Timestamp</b>
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- To contact us by email, send messages to: [esignature@CrownCastle.com](mailto:esignature@CrownCastle.com)
- To contact us by paper mail, send correspondence to
  - Crown Castle
  - 2000 Corporate Drive
  - Canonsburg, PA 15317

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Screen Resolution:	1024 x 768

Enabled Security Settings:	Allow per session cookies
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# Exhibit D

## **Structural Analysis Report**

Date: **June 01, 2020**

Stephanie Lipscomb  
Crown Castle  
370 Mallory Station Rd  
Franklin, TN 37067

Paul J. Ford & 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: 25926  
Carrier Site Name: CTL01143

**Crown Castle Designation:** Crown Castle BU Number: 876340  
Crown Castle Site Name: COE HILL  
Crown Castle JDE Job Number: 605413  
Crown Castle Work Order Number: 1848834  
Crown Castle Order Number: 517073 Rev. 0

**Engineering Firm Designation:** Paul J. Ford & Company Project Number: 37520-0918.001.7805

**Site Data:** 238 Meriden Rd., MIDDLEFIELD, Middlesex County, CT  
Latitude 41° 32' 45.6", Longitude -72° 42' 53.9"  
133.5 Foot - Monopole Tower

Dear Stephanie Lipscomb,

Paul J. Ford & 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:

LC7: Proposed Equipment Configuration

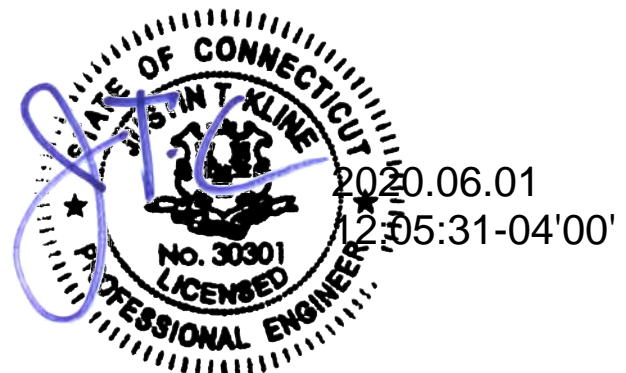
**Sufficient Capacity - 79.8%**

This analysis utilizes an ultimate 3-second gust wind speed of 125 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:

  
Jaime Acuna  
Structural Designer  
jacuna@pauljford.com





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## 1) INTRODUCTION

This tower is a 119.0 ft Monopole tower, designed by Summit in January of 1997, and mapped by FDH in November of 2007. An existing 14.5-ft tower extension has been considered in this analysis, bringing the total tower height to 133.5-ft.

The tower has been modified per reinforcement drawings prepared by FDH in October of 2008. Reinforcement consist of Shaft Reinforcing and Anchor Rods.

The tower has been modified per reinforcement drawings prepared by PJF in September of 2010. Reinforcement consist of Pole Extension.

## 2) ANALYSIS CRITERIA

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

**Table 1 – Proposed Equipment Configuration**

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
131.0	134.0	1	Site Pro 1	HRK12-3HD	6 4 2 1	1-1/4 3/4 3/8 2" Conduit
	132.0	1	cci antennas	DMP65R-BU4D w/ Mount Pipe		
		2	cci antennas	DMP65R-BU6D w/ Mount Pipe		
		1	cci antennas	OPA65R-BU4D w/ Mount Pipe		
		2	cci antennas	OPA65R-BU6D w/ Mount Pipe		
		3	ericsson	RRUS 4449 B5/B12		
		3	ericsson	RRUS 8843 B2/B66A		
		6	kathrein	860 10025		
		6	powerwave technologies	CM1007-DBPXC-003		
	3	powerwave technologies	P65-15-XLH-RR w/ Mount Pipe			
	131.0	3	powerwave technologies	TT19-08BP111-001		
		3	raycap	DC6-48-60-18-8F		
1		tower mounts	Platform Mount [LP 601-1]			
60.0	61.0	1	symmetricom	58532A	1	1/2
	60.0	1	tower mounts	Side Arm Mount [SO 304-1]		

**Table 2 – Other Considered Equipment**

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
119.0	121.0	3	alcatel lucent	TD-RRH8X20-25	3 1	1-1/4 7/8
		3	rfs celwave	APXVSPP18-C-A20 w/ Mount Pipe		
		3	rfs celwave	APXVTM14-C-120 w/ Mount Pipe		
	119.0	1	tower mounts	Platform Mount [LP 403-1]		
117.0	117.0	3	alcatel lucent	TME-800MHz 2X50W RRH W/FILTER	-	-
		3	alcatel lucent	TME-PCS 1900MHz 4x45W-65MHz		
		1	tower mounts	Side Arm Mount [SO 102-3]		
111.0	111.0	1	tower mounts	Platform Mount [LP 403-1]	-	-
101.0	104.0	3	ericsson	AIR 32 B2A B66AA w/ Mount Pipe	4 6	1-5/8 1-1/4
		3	ericsson	ERICSSON AIR 21 B2A B4P w/ Mount Pipe		
		3	ericsson	KRY 112 144/1		
		3	ericsson	RADIO 4449 B12/B71		
	101.0	1	rfs celwave	APXVAARR24_43-U- NA20 w/ Mount Pipe		
95.0	95.0	1	tower mounts	Platform Mount [LP 404-1]		
		3	rfs celwave	APXV18-206517S-ACU	6	1-5/8
		1	tower mounts	Pipe Mount [PM 602-3]		
2	tower mounts	Side Arm Mount [SO 102-3]				
50.0	51.0	1	lucent	KS24019-L112A	1	1/2
	50.0	1	tower mounts	Side Arm Mount [SO 701-1]		

### 3) ANALYSIS PROCEDURE

**Table 3 – Documents Provided**

Document	Remarks	Reference	Source
4-GEOTECHNICAL REPORTS	SEA, 03-160A, 10/7/1997	1613531	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	Summit, 29298-051, 01/23/1998	1613597	CCISITES
4-TOWER MANUFACTURER DRAWINGS	Summit, 3199, 01/22/1998 & FDH, 07-01211T, 11/19/2007 (mapped)	1533009	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	FDH, 01314ER, 10/15/2008	2331830	CCISITES
.4-POST-MODIFICATION INSPECTION	FDH, 08-01314E, 05/05/2009	2427628	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	PJF, 37510-0656 RP, 9/2/2010	2642501	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. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 standard.

tnxTower was used to determine the loads on the modified structure. Additional calculations were performed to determine the stresses in the pole and in the reinforcing elements. These calculations are presented in Appendix C.

#### 3.2) Assumptions

- 1) Tower and structures were maintained in accordance with the TIA-222 standard.
- 2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.
- 3) The structure was modified in conformance with the referenced modification drawings as shown in the referenced post modification inspection.

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

#### 4) ANALYSIS RESULTS

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

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
133.5 - 128.5	Pole	TP10.75x10.75x0.188	Pole	19.3%	Pass
128.5 - 123.5	Pole	TP10.75x10.75x0.188	Pole	48.0%	Pass
123.5 - 121.5	Pole	TP10.75x10.75x0.188	Pole	59.7%	Pass
121.5 - 119	Pole	TP22x10.75x0.188	Pole	18.9%	Pass
119 - 114	Pole	TP22.95x22x0.25	Pole	19.2%	Pass
114 - 109	Pole	TP23.9x22.95x0.25	Pole	25.8%	Pass
109 - 104	Pole	TP24.85x23.9x0.25	Pole	32.2%	Pass
104 - 99	Pole	TP25.8x24.85x0.25	Pole	40.9%	Pass
99 - 94	Pole	TP26.75x25.8x0.25	Pole	49.3%	Pass
94 - 89	Pole	TP27.7x26.75x0.25	Pole	57.6%	Pass
89 - 85.25	Pole	TP28.41x27.7x0.25	Pole	63.4%	Pass
85.25 - 85	Pole + Reinf.	TP28.46x28.41x0.5125	Reinf. 2 Connection	46.8%	Pass
85 - 80	Pole + Reinf.	TP29.41x28.46x0.5	Reinf. 2 Compression	52.3%	Pass
80 - 75	Pole + Reinf.	TP30.36x29.41x0.5	Reinf. 2 Connection	53.6%	Pass
75 - 74	Pole	TP30.05x29.148x0.3125	Pole	59.7%	Pass
74 - 69	Pole	TP31.001x30.05x0.3125	Pole	64.2%	Pass
69 - 68.25	Pole	TP31.143x31.001x0.3125	Pole	64.9%	Pass
68.25 - 68	Pole + Reinf.	TP31.191x31.143x0.575	Reinf. 1 Tension Rupture	48.9%	Pass
68 - 63	Pole + Reinf.	TP32.141x31.191x0.575	Reinf. 1 Tension Rupture	52.2%	Pass
63 - 58	Pole + Reinf.	TP33.091x32.141x0.5625	Reinf. 1 Tension Rupture	55.4%	Pass
58 - 53	Pole + Reinf.	TP34.042x33.091x0.55	Reinf. 1 Tension Rupture	58.4%	Pass
53 - 48	Pole + Reinf.	TP34.992x34.042x0.5438	Reinf. 1 Tension Rupture	61.2%	Pass
48 - 43	Pole + Reinf.	TP35.942x34.992x0.5375	Reinf. 1 Tension Rupture	64.0%	Pass
43 - 37.75	Pole + Reinf.	TP36.94x35.942x0.5375	Reinf. 1 Tension Rupture	64.2%	Pass
37.75 - 37.5	Pole + Reinf.	TP36.363x35.412x0.6	Reinf. 1 Tension Rupture	61.6%	Pass
37.5 - 32.5	Pole + Reinf.	TP37.313x36.363x0.5875	Reinf. 1 Tension Rupture	63.7%	Pass
32.5 - 27.5	Pole + Reinf.	TP38.263x37.313x0.5875	Reinf. 1 Tension Rupture	65.8%	Pass
27.5 - 22.5	Pole + Reinf.	TP39.214x38.263x0.575	Reinf. 1 Tension Rupture	67.8%	Pass
22.5 - 17.5	Pole + Reinf.	TP40.164x39.214x0.575	Reinf. 1 Tension Rupture	69.6%	Pass
17.5 - 12.5	Pole + Reinf.	TP41.114x40.164x0.5688	Reinf. 1 Tension Rupture	71.4%	Pass
12.5 - 7.5	Pole + Reinf.	TP42.065x41.114x0.5625	Reinf. 1 Tension Rupture	73.0%	Pass
7.5 - 2.75	Pole + Reinf.	TP42.967x42.065x0.5625	Reinf. 1 Tension Rupture	74.5%	Pass
2.75 - 2.5	Pole + Reinf.	TP43.015x42.967x0.4875	Reinf. 3 Connection	79.1%	Pass
2.5 - 0	Pole + Reinf.	TP43.49x43.015x0.4875	Reinf. 3 Connection	79.8%	Pass
				Summary	
			Pole	65.6%	Pass
			Reinforcement	79.8%	Pass
			Overall	79.8%	Pass

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

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Flange Connection	119.0	33.4	Pass
1	Anchor Rods	0	49.7	Pass
1	Base Plate	0	49.4	Pass
1	Base Foundation Structural Steel	0	46.9	Pass
1	Base Foundation Soil Interaction	0	55.1	Pass

<b>Structure Rating (max from all components) =</b>	<b>79.8%</b>
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Notes:

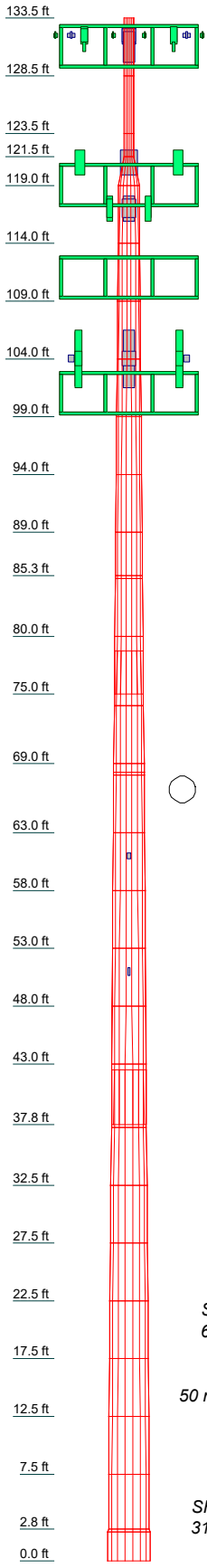
- All structural ratings are per TIA-222-H Section 15.5
- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.

**4.1) Recommendations**

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

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

Section	Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (K)
1	5.000	0	0.1880				0.1	0.1
2	5.000	0	0.1880				0.1	0.1
3	2.500	0	0.1880				0.0	0.0
4	2.500	0	0.1880				0.0	0.0
5	5.000	12	0.2500				0.3	0.3
6	5.000	12	0.2500				0.3	0.3
7	5.000	12	0.2500				0.3	0.3
8	5.000	12	0.2500				0.3	0.3
9	5.000	12	0.2500				0.4	0.4
10	5.000	12	0.2500				0.4	0.4
11	5.000	12	0.2500				0.4	0.4
12	5.000	12	0.2500				0.3	0.3
13	5.000	12	0.2500				0.7	0.7
14	4.750	12	0.5000	3.750			0.5	0.5
15	4.750	12	0.5000	3.750			0.5	0.5
16	4.750	12	0.5000	3.750			0.5	0.5
17	4.750	12	0.5000	3.750			0.5	0.5
18	4.750	12	0.5000	3.750			0.5	0.5
19	5.000	12	0.5625				0.9	0.9
20	5.000	12	0.5625				0.9	0.9
21	5.000	12	0.5500				0.9	0.9
22	5.000	12	0.5437				1.0	1.0
23	5.000	12	0.5375				1.0	1.0
24	5.000	12	0.5375				1.1	1.1
25	5.000	12	0.5375				1.1	1.1
26	5.000	12	0.5875				1.1	1.1
27	5.000	12	0.5875				1.2	1.2
28	5.000	12	0.5750				1.2	1.2
29	5.000	12	0.5750				1.2	1.2
30	5.000	12	0.5687				1.2	1.2
31	5.000	12	0.5625				1.2	1.2
32	5.000	12	0.5625				1.2	1.2
33	5.000	12	0.5625				1.2	1.2
34	5.000	12	0.5625				1.2	1.2
35	5.000	12	0.5625				1.2	1.2
36	5.000	12	0.5625				1.2	1.2
37	5.000	12	0.5625				1.2	1.2
38	5.000	12	0.5625				1.2	1.2
39	5.000	12	0.5625				1.2	1.2
40	5.000	12	0.5625				1.2	1.2
41	5.000	12	0.5625				1.2	1.2
42	5.000	12	0.5625				1.2	1.2
43	5.000	12	0.5625				1.2	1.2
44	5.000	12	0.5625				1.2	1.2
45	5.000	12	0.5625				1.2	1.2
46	5.000	12	0.5625				1.2	1.2
47	5.000	12	0.5625				1.2	1.2
48	5.000	12	0.5625				1.2	1.2
49	5.000	12	0.5625				1.2	1.2
50	5.000	12	0.5625				1.2	1.2
51	5.000	12	0.5625				1.2	1.2
52	5.000	12	0.5625				1.2	1.2
53	5.000	12	0.5625				1.2	1.2
54	5.000	12	0.5625				1.2	1.2
55	5.000	12	0.5625				1.2	1.2
56	5.000	12	0.5625				1.2	1.2
57	5.000	12	0.5625				1.2	1.2
58	5.000	12	0.5625				1.2	1.2
59	5.000	12	0.5625				1.2	1.2
60	5.000	12	0.5625				1.2	1.2
61	5.000	12	0.5625				1.2	1.2
62	5.000	12	0.5625				1.2	1.2
63	5.000	12	0.5625				1.2	1.2
64	5.000	12	0.5625				1.2	1.2
65	5.000	12	0.5625				1.2	1.2
66	5.000	12	0.5625				1.2	1.2
67	5.000	12	0.5625				1.2	1.2
68	5.000	12	0.5625				1.2	1.2
69	5.000	12	0.5625				1.2	1.2
70	5.000	12	0.5625				1.2	1.2
71	5.000	12	0.5625				1.2	1.2
72	5.000	12	0.5625				1.2	1.2
73	5.000	12	0.5625				1.2	1.2
74	5.000	12	0.5625				1.2	1.2
75	5.000	12	0.5625				1.2	1.2
76	5.000	12	0.5625				1.2	1.2
77	5.000	12	0.5625				1.2	1.2
78	5.000	12	0.5625				1.2	1.2
79	5.000	12	0.5625				1.2	1.2
80	5.000	12	0.5625				1.2	1.2
81	5.000	12	0.5625				1.2	1.2
82	5.000	12	0.5625				1.2	1.2
83	5.000	12	0.5625				1.2	1.2
84	5.000	12	0.5625				1.2	1.2
85	5.000	12	0.5625				1.2	1.2
86	5.000	12	0.5625				1.2	1.2
87	5.000	12	0.5625				1.2	1.2
88	5.000	12	0.5625				1.2	1.2
89	5.000	12	0.5625				1.2	1.2
90	5.000	12	0.5625				1.2	1.2
91	5.000	12	0.5625				1.2	1.2
92	5.000	12	0.5625				1.2	1.2
93	5.000	12	0.5625				1.2	1.2
94	5.000	12	0.5625				1.2	1.2
95	5.000	12	0.5625				1.2	1.2
96	5.000	12	0.5625				1.2	1.2
97	5.000	12	0.5625				1.2	1.2
98	5.000	12	0.5625				1.2	1.2
99	5.000	12	0.5625				1.2	1.2
100	5.000	12	0.5625				1.2	1.2

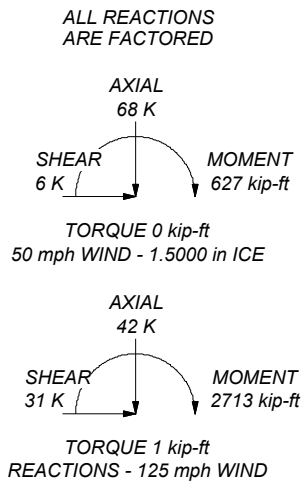


**MATERIAL STRENGTH**

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 125 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.000 ft
8. TIA-222 H Annex S
9. TOWER RATING: 79.8%



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

Job: <b>141 Ft Monopole / COE HILL / MIDDLESEX, CT</b>		
Project: <b>PJF# 37520-0918.001.7805 / BU# 876340</b>		
Client: CCI	Drawn by: jacuna	App'd:
Code: TIA-222-H	Date: 06/01/20	Scale: NTS
Path:		Dwg No: E-1

## Tower Input Data

The tower is a monopole.

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

The following design criteria apply:

- 1) Tower is located in Middlesex County, Connecticut.
- 2) Tower base elevation above sea level: 444.260 ft.
- 3) Basic wind speed of 125 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: 0.000 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 50 mph is used in combination with ice.
- 13) Temperature drop of 50 °F.
- 14) Deflections calculated using a wind speed of 60 mph.
- 15) A non-linear (P-delta) analysis was used.
- 16) Pressures are calculated at each section.
- 17) Stress ratio used in pole design is 1.05.
- 18) Tower analysis based on target reliabilities in accordance with Annex S.
- 19) Load Modification Factors used:  $K_{es}(F_w) = 0.95$ ,  $K_{es}(t_i) = 0.85$ .
- 20) 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;"><b>Poles</b></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	133.500- 128.500	5.000	0.00	Round	10.7500	10.7500	0.1880		A572-65 (65 ksi)
L2	128.500- 123.500	5.000	0.00	Round	10.7500	10.7500	0.1880		A572-65 (65 ksi)
L3	123.500- 121.500	2.000	0.00	Round	10.7500	10.7500	0.1880		A572-65 (65 ksi)
L4	121.500- 119.000	2.500	0.00	Round	10.7500	22.0000	0.1880		A572-65 (65 ksi)



Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L5	119.000-114.000	5.000	0.00	12	22.0000	22.9500	0.2500	1.0000	A572-65 (65 ksi)
L6	114.000-109.000	5.000	0.00	12	22.9500	23.9000	0.2500	1.0000	A572-65 (65 ksi)
L7	109.000-104.000	5.000	0.00	12	23.9000	24.8500	0.2500	1.0000	A572-65 (65 ksi)
L8	104.000-99.000	5.000	0.00	12	24.8500	25.8000	0.2500	1.0000	A572-65 (65 ksi)
L9	99.000-94.000	5.000	0.00	12	25.8000	26.7500	0.2500	1.0000	A572-65 (65 ksi)
L10	94.000-89.000	5.000	0.00	12	26.7500	27.7000	0.2500	1.0000	A572-65 (65 ksi)
L11	89.000-85.250	3.750	0.00	12	27.7000	28.4125	0.2500	1.0000	A572-65 (65 ksi)
L12	85.250-85.000	0.250	0.00	12	28.4125	28.4600	0.5125	2.0500	A572-65 (65 ksi)
L13	85.000-80.000	5.000	0.00	12	28.4600	29.4100	0.5000	2.0000	A572-65 (65 ksi)
L14	80.000-75.000	5.000	3.75	12	29.4100	30.3600	0.5000	2.0000	A572-65 (65 ksi)
L15	75.000-74.000	4.750	0.00	12	29.1475	30.0503	0.3125	1.2500	A572-65 (65 ksi)
L16	74.000-69.000	5.000	0.00	12	30.0503	31.0006	0.3125	1.2500	A572-65 (65 ksi)
L17	69.000-68.250	0.750	0.00	12	31.0006	31.1431	0.3125	1.2500	A572-65 (65 ksi)
L18	68.250-68.000	0.250	0.00	12	31.1431	31.1907	0.5750	2.3000	A572-65 (65 ksi)
L19	68.000-63.000	5.000	0.00	12	31.1907	32.1410	0.5750	2.3000	A572-65 (65 ksi)
L20	63.000-58.000	5.000	0.00	12	32.1410	33.0913	0.5625	2.2500	A572-65 (65 ksi)
L21	58.000-53.000	5.000	0.00	12	33.0913	34.0416	0.5500	2.2000	A572-65 (65 ksi)
L22	53.000-48.000	5.000	0.00	12	34.0416	34.9919	0.5437	2.1750	A572-65 (65 ksi)
L23	48.000-43.000	5.000	0.00	12	34.9919	35.9422	0.5375	2.1500	A572-65 (65 ksi)
L24	43.000-37.750	5.250	4.75	12	35.9422	36.9400	0.5375	2.1500	A572-65 (65 ksi)
L25	37.750-37.500	5.000	0.00	12	35.4122	36.3625	0.6000	2.4000	A572-65 (65 ksi)
L26	37.500-32.500	5.000	0.00	12	36.3625	37.3129	0.5875	2.3500	A572-65 (65 ksi)
L27	32.500-27.500	5.000	0.00	12	37.3129	38.2632	0.5875	2.3500	A572-65 (65 ksi)
L28	27.500-22.500	5.000	0.00	12	38.2632	39.2135	0.5750	2.3000	A572-65 (65 ksi)
L29	22.500-17.500	5.000	0.00	12	39.2135	40.1639	0.5750	2.3000	A572-65 (65 ksi)
L30	17.500-12.500	5.000	0.00	12	40.1639	41.1142	0.5687	2.2750	A572-65 (65 ksi)
L31	12.500-7.500	5.000	0.00	12	41.1142	42.0645	0.5625	2.2500	A572-65 (65 ksi)
L32	7.500-2.750	4.750	0.00	12	42.0645	42.9673	0.5625	2.2500	A572-65 (65 ksi)
L33	2.750-2.500	0.250	0.00	12	42.9673	43.0148	0.4875	1.9500	A572-65 (65 ksi)
L34	2.500-0.000	2.500		12	43.0148	43.4900	0.4875	1.9500	A572-65 (65 ksi)

### Tapered Pole Properties

Section	Tip Dia. in	Area in <sup>2</sup>	I in <sup>4</sup>	r in	C in	I/C in <sup>3</sup>	J in <sup>4</sup>	It/Q in <sup>2</sup>	w in	w/t
L1	10.7500	6.2381	87.0149	3.7348	5.3750	16.1888	174.0299	3.1172	0.0000	0
	10.7500	6.2381	87.0149	3.7348	5.3750	16.1888	174.0299	3.1172	0.0000	0

Section	Tip Dia. in	Area in <sup>2</sup>	I in <sup>4</sup>	r in	C in	I/C in <sup>3</sup>	J in <sup>4</sup>	I/Q in <sup>2</sup>	w in	w/t
L2	10.7500	6.2381	87.0149	3.7348	5.3750	16.1888	174.0299	3.1172	0.0000	0
	10.7500	6.2381	87.0149	3.7348	5.3750	16.1888	174.0299	3.1172	0.0000	0
L3	10.7500	6.2381	87.0149	3.7348	5.3750	16.1888	174.0299	3.1172	0.0000	0
	10.7500	6.2381	87.0149	3.7348	5.3750	16.1888	174.0299	3.1172	0.0000	0
L4	10.7500	6.2381	87.0149	3.7348	5.3750	16.1888	174.0299	3.1172	0.0000	0
	22.0000	12.8826	766.1900	7.7120	11.0000	69.6536	1532.3799	6.4375	0.0000	0
L5	22.6879	17.5087	1057.2060	7.7865	11.3960	92.7699	2142.1860	8.6173	5.2260	20.904
	23.6714	18.2735	1201.8753	8.1266	11.8881	101.0990	2435.3252	8.9937	5.4806	21.922
L6	23.6714	18.2735	1201.8753	8.1266	11.8881	101.0990	2435.3252	8.9937	5.4806	21.922
	24.6549	19.0383	1359.1746	8.4667	12.3802	109.7862	2754.0563	9.3700	5.7352	22.941
L7	24.6549	19.0383	1359.1746	8.4667	12.3802	109.7862	2754.0563	9.3700	5.7352	22.941
	25.6384	19.8030	1529.6327	8.8068	12.8723	118.8313	3099.4505	9.7464	5.9898	23.959
L8	25.6384	19.8030	1529.6327	8.8068	12.8723	118.8313	3099.4505	9.7464	5.9898	23.959
	26.6219	20.5678	1713.7779	9.1469	13.3644	128.2346	3472.5787	10.1228	6.2444	24.978
L9	26.6219	20.5678	1713.7779	9.1469	13.3644	128.2346	3472.5787	10.1228	6.2444	24.978
	27.6054	21.3325	1912.1390	9.4870	13.8565	137.9958	3874.5120	10.4992	6.4990	25.996
L10	27.6054	21.3325	1912.1390	9.4870	13.8565	137.9958	3874.5120	10.4992	6.4990	25.996
	28.5890	22.0972	2125.2444	9.8271	14.3486	148.1151	4306.3213	10.8756	6.7536	27.014
L11	28.5890	22.0972	2125.2444	9.8271	14.3486	148.1151	4306.3213	10.8756	6.7536	27.014
	29.3266	22.6708	2295.0674	10.0822	14.7177	155.9395	4650.4288	11.1579	6.9446	27.778
L12	29.3266	22.6708	2295.0674	10.0822	14.7177	155.9395	4650.4288	11.1579	6.9446	27.778
	29.2340	46.0420	4574.5492	9.9882	14.7177	310.8201	9269.2769	22.6605	6.2411	12.178
L13	29.2340	46.0420	4574.5492	9.9882	14.7177	310.8201	9269.2769	22.6605	6.2411	12.178
	29.2832	46.1204	4597.9536	10.0052	14.7423	311.8889	9316.7006	22.6990	6.2538	12.202
L14	29.2832	46.1204	4597.9536	10.0052	14.7423	311.8889	9316.7006	22.6990	6.2538	12.202
	30.2711	46.5451	4965.4213	10.3498	15.2344	325.9352	10061.289	22.9081	6.5419	13.084
L15	30.2711	46.5451	4965.4213	10.3498	15.2344	325.9352	10061.289	22.9081	6.5419	13.084
	31.2546	48.0746	5471.1829	10.6899	15.7265	347.8962	11086.099	23.6609	6.7965	13.593
L16	31.2546	48.0746	5471.1829	10.6899	15.7265	347.8962	11086.099	23.6609	6.7965	13.593
	30.8033	29.0152	3079.2979	10.3229	15.0984	203.9486	6239.4925	14.2804	6.9740	22.317
L17	31.0001	29.9237	3377.6754	10.6461	15.5661	216.9899	6844.0861	14.7275	7.2160	23.091
	31.0001	29.9237	3377.6754	10.6461	15.5661	216.9899	6844.0861	14.7275	7.2160	23.091
L18	31.9839	30.8799	3711.9459	10.9863	16.0583	231.1542	7521.4087	15.1981	7.4707	23.906
	31.9839	30.8799	3711.9459	10.9863	16.0583	231.1542	7521.4087	15.1981	7.4707	23.906
L19	32.1315	31.0233	3763.9120	11.0374	16.1321	233.3175	7626.7062	15.2687	7.5089	24.028
	32.0389	56.5969	6750.2010	10.9434	16.1321	418.4317	13677.737	27.8553	6.8054	11.835
L20	32.0881	56.6849	6781.7275	10.9604	16.1568	419.7455	13741.618	27.8986	6.8181	11.858
	32.0881	56.6849	6781.7275	10.9604	16.1568	419.7455	13741.618	27.8986	6.8181	11.858
L21	33.0719	58.4444	7433.0435	11.3006	16.6490	446.4554	15061.361	28.7645	7.0728	12.3
	33.0763	57.1965	7280.0974	11.3051	16.6490	437.2689	14751.451	28.1504	7.1063	12.633
L22	34.0602	58.9177	7957.3246	11.6453	17.1413	464.2201	16123.696	28.9975	7.3610	13.086
	34.0646	57.6306	7789.4682	11.6498	17.1413	454.4276	15783.574	28.3640	7.3945	13.444
L23	35.0484	59.3136	8492.0204	11.9900	17.6335	481.5836	17207.135	29.1923	7.6491	13.908
	35.0506	58.6505	8400.2213	11.9922	17.6335	476.3777	17021.125	28.8660	7.6659	14.098
L24	36.0344	60.3144	9135.6164	12.3324	18.1258	504.0120	18511.235	29.6849	7.9206	14.567
	36.0366	59.6319	9035.5256	12.3347	18.1258	498.4900	18308.424	29.3490	7.9373	14.767
L25	37.0205	61.2766	9803.9776	12.6749	18.6180	526.5846	19865.516	30.1585	8.1920	15.241
	37.0205	61.2766	9803.9776	12.6749	18.6180	526.5846	19865.516	30.1585	8.1920	15.241
L26	38.0535	63.0036	10656.483	13.0321	19.1349	556.9129	21592.924	31.0085	8.4594	15.738
	37.3844	67.2572	10403.700	12.4628	18.3435	567.1593	21080.718	33.1019	7.8825	13.137
L27	37.4336	69.0932	11279.195	12.8030	18.8358	598.8170	22854.707	34.0056	8.1372	13.562
	37.4380	67.6774	11055.796	12.8075	18.8358	586.9567	22402.041	33.3088	8.1707	13.908

Section	Tip Dia. in	Area in <sup>2</sup>	I in <sup>4</sup>	r in	C in	I/C in <sup>3</sup>	J in <sup>4</sup>	I/Q in <sup>2</sup>	w in	w/t
	38.4219	69.4752	11960.466 7	13.1477	19.3281	618.8135	24235.148 2	34.1936	8.4253	14.341
L27	38.4219	69.4752	11960.466 7	13.1477	19.3281	618.8135	24235.148 2	34.1936	8.4253	14.341
	39.4057	71.2730	12913.189 1	13.4879	19.8203	651.5122	26165.622 0	35.0784	8.6800	14.775
L28	39.4101	69.7797	12651.024 1	13.4924	19.8203	638.2851	25634.404 6	34.3434	8.7135	15.154
	40.3940	71.5392	13632.365 3	13.8326	20.3126	671.1284	27622.868 1	35.2094	8.9682	15.597
L29	40.3940	71.5392	13632.365 3	13.8326	20.3126	671.1284	27622.868 1	35.2094	8.9682	15.597
	41.3778	73.2988	14663.186 5	14.1728	20.8049	704.7957	29711.591 2	36.0754	9.2229	16.04
L30	41.3800	72.5135	14510.674 4	14.1750	20.8049	697.4651	29402.560 3	35.6889	9.2397	16.246
	42.3639	74.2539	15580.771 7	14.5153	21.2971	731.5897	31570.867 6	36.5455	9.4944	16.693
L31	42.3661	73.4492	15416.681 6	14.5175	21.2971	723.8849	31238.376 5	36.1495	9.5111	16.909
	43.3500	75.1705	16526.149 5	14.8577	21.7894	758.4485	33486.459 4	36.9966	9.7658	17.361
L32	43.3500	75.1705	16526.149 5	14.8577	21.7894	758.4485	33486.459 4	36.9966	9.7658	17.361
	44.2846	76.8057	17628.282 0	15.1809	22.2571	792.0306	35719.678 7	37.8014	10.0077	17.792
L33	44.3111	66.6827	15359.052 1	15.2078	22.2571	690.0752	31121.603 7	32.8192	10.2087	20.941
	44.3603	66.7573	15410.650 7	15.2248	22.2817	691.6286	31226.156 4	32.8559	10.2215	20.967
L34	44.3603	66.7573	15410.650 7	15.2248	22.2817	691.6286	31226.156 4	32.8559	10.2215	20.967
	44.8522	67.5032	15933.000 0	15.3949	22.5278	707.2588	32284.577 6	33.2230	10.3488	21.228

Tower Elevation ft	Gusset Area (per face) ft <sup>2</sup>	Gusset Thickness in	Gusset Grade	Adjust. Factor A <sub>r</sub>	Adjust. Factor A <sub>r</sub>	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontal in	Double Angle Stitch Bolt Spacing Redundants in
L1 133.500- 128.500				1	1	1			
L2 128.500- 123.500				1	1	1			
L3 123.500- 121.500				1	1	1			
L4 121.500- 119.000				1	1	1			
L5 119.000- 114.000				1	1	1			
L6 114.000- 109.000				1	1	1			
L7 109.000- 104.000				1	1	1			
L8 104.000- 99.000				1	1	1			
L9 99.000- 94.000				1	1	1			
L10 94.000- 89.000				1	1	1			
L11 89.000- 85.250				1	1	1			
L12 85.250- 85.000				1	1	0.925525			
L13 85.000- 80.000				1	1	0.93351			
L14 80.000- 75.000				1	1	0.929978			

Tower Elevation ft	Gusset Area (per face) ft <sup>2</sup>	Gusset Thickness in	Gusset Grade	Adjust. Factor A <sub>r</sub>	Adjust. Factor A <sub>r</sub>	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L15 75.000-74.000				1	1	1			
L16 74.000-69.000				1	1	1			
L17 69.000-68.250				1	1	1			
L18 68.250-68.000				1	1	0.947405			
L19 68.000-63.000				1	1	0.935245			
L20 63.000-58.000				1	1	0.943961			
L21 58.000-53.000				1	1	0.953783			
L22 53.000-48.000				1	1	0.953811			
L23 48.000-43.000				1	1	0.954438			
L24 43.000-37.750				1	1	0.953439			
L25 37.750-37.500				1	1	0.956495			
L26 37.500-32.500				1	1	0.967753			
L27 32.500-27.500				1	1	0.959443			
L28 27.500-22.500				1	1	0.971913			
L29 22.500-17.500				1	1	0.964238			
L30 17.500-12.500				1	1	0.967289			
L31 12.500-7.500				1	1	0.970759			
L32 7.500-2.750				1	1	0.964285			
L33 2.750-2.500				1	1	0.977531			
L34 2.500-0.000				1	1	0.975229			

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

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter r in	Perimeter r in	Weight plf
*****										
MP3-05 Reinforcement	A	No	Surface Af (CaAa)	70.500 - 0.500	1	1	0.000 0.000	5.3300	14.8400	0.00
MP3-05 Reinforcement	C	No	Surface Af (CaAa)	70.500 - 0.500	1	1	0.250 0.250	5.3300	14.8400	0.00
MP3-05 Reinforcement	C	No	Surface Af (CaAa)	70.500 - 0.500	1	1	-0.500 -0.500	5.3300	14.8400	0.00
MP3-05 Reinforcement	B	No	Surface Af (CaAa)	70.500 - 0.500	1	1	-0.250 -0.250	5.3300	14.8400	0.00
MP3-08.5 Reinforcement	A	No	Surface Af (CaAa)	87.000 - 77.000	1	1	0.000 0.000	3.8420	13.2900	0.00
MP3-08.5 Reinforcement	C	No	Surface Af (CaAa)	87.000 - 77.000	1	1	0.250 0.250	3.8420	13.2900	0.00
MP3-08.5 Reinforcement	C	No	Surface Af (CaAa)	87.000 - 77.000	1	1	-0.500 -0.500	3.8420	13.2900	0.00
MP3-08.5 Reinforcement	B	No	Surface Af (CaAa)	87.000 - 77.000	1	1	-0.250 -0.250	3.8420	13.2900	0.00

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

**Feed Line/Linear Appurtenances - Entered As Area**

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C <sub>AA</sub> ft <sup>2</sup> /ft	Weight plf	
LCF114-50J(1-1/4)	C	No	No	Inside Pole	131.000 - 0.000	6	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.70 0.70 0.70 0.70	
WR-VG86ST-BRD(3/4)	C	No	No	Inside Pole	131.000 - 0.000	2	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.58 0.58 0.58 0.58	
FB-L98B-002-50000(3/8)	C	No	No	Inside Pole	131.000 - 0.000	1	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.06 0.06 0.06 0.06	
FB-L98B-002-50000(3/8)	C	No	No	Inside Pole	131.000 - 0.000	1	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.06 0.06 0.06 0.06	
WR-VG86ST-BRD(3/4)	C	No	No	Inside Pole	131.000 - 0.000	2	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.58 0.58 0.58 0.58	
2" (Nominal) Conduit	C	No	No	Inside Pole	131.000 - 0.000	1	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.72 0.72 0.72 0.72	
*****										
**										
HB114-1-08U4-M5J(1-1/4)	C	No	No	Inside Pole	119.000 - 0.000	3	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	1.08 1.08 1.08 1.08	
LDF5-50A(7/8)	C	No	No	Inside Pole	119.000 - 0.000	1	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.33 0.33 0.33 0.33	
*****										
**										
MLE HYBRID 9POWER/18FIBER RL 2(1-5/8)	C	No	No	Inside Pole	101.000 - 0.000	1	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	1.07 1.07 1.07 1.07	
LDF6-50A(1-1/4)	C	No	No	Inside Pole	101.000 - 0.000	6	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.60 0.60 0.60 0.60	
HCS 6X12 4AWG(1-5/8)	C	No	No	Inside Pole	101.000 - 0.000	3	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	2.40 2.40 2.40 2.40	
*****										
**										
AVA7-50(1-5/8)	C	No	No	Inside Pole	95.000 - 0.000	6	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.70 0.70 0.70 0.70	
*****										
**										
LDF4-50A(1/2)	C	No	No	Inside Pole	60.000 - 0.000	1	No Ice 1/2" Ice	0.000 0.000	0.15 0.15	

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C <sub>A</sub> A <sub>A</sub> ft <sup>2</sup> /ft	Weight plf
							1" Ice	0.000	0.15
							2" Ice	0.000	0.15
*****									
**									
LDF4-50A(1/2)	C	No	No	Inside Pole	50.000 - 0.000	1	No Ice	0.000	0.15
							1/2" Ice	0.000	0.15
							1" Ice	0.000	0.15
							2" Ice	0.000	0.15
*****									
*****									

**Feed Line/Linear Appurtenances Section Areas**

Tower Section n	Tower Elevation ft	Face	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> In Face ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Out Face ft <sup>2</sup>	Weight K
L1	133.500-128.500	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	0.000	0.02
L2	128.500-123.500	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	0.000	0.04
L3	123.500-121.500	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	0.000	0.01
L4	121.500-119.000	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	0.000	0.02
L5	119.000-114.000	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	0.000	0.05
L6	114.000-109.000	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	0.000	0.05
L7	109.000-104.000	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	0.000	0.05
L8	104.000-99.000	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	0.000	0.08
L9	99.000-94.000	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	0.000	0.12
L10	94.000-89.000	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	0.000	0.14
L11	89.000-85.250	A	0.000	0.000	1.121	0.000	0.00
		B	0.000	0.000	1.121	0.000	0.00
		C	0.000	0.000	2.241	0.000	0.10
L12	85.250-85.000	A	0.000	0.000	0.160	0.000	0.00
		B	0.000	0.000	0.160	0.000	0.00
		C	0.000	0.000	0.320	0.000	0.01
L13	85.000-80.000	A	0.000	0.000	3.202	0.000	0.00
		B	0.000	0.000	3.202	0.000	0.00
		C	0.000	0.000	6.403	0.000	0.14
L14	80.000-75.000	A	0.000	0.000	1.921	0.000	0.00
		B	0.000	0.000	1.921	0.000	0.00
		C	0.000	0.000	3.842	0.000	0.14
L15	75.000-74.000	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	0.000	0.03
L16	74.000-69.000	A	0.000	0.000	1.333	0.000	0.00
		B	0.000	0.000	1.333	0.000	0.00
		C	0.000	0.000	2.665	0.000	0.14
L17	69.000-68.250	A	0.000	0.000	0.666	0.000	0.00
		B	0.000	0.000	0.666	0.000	0.00
		C	0.000	0.000	1.333	0.000	0.02

Tower Sectio n	Tower Elevation ft	Face	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> In Face ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Out Face ft <sup>2</sup>	Weight K
L18	68.250-68.000	A	0.000	0.000	0.222	0.000	0.00
		B	0.000	0.000	0.222	0.000	0.00
		C	0.000	0.000	0.444	0.000	0.01
L19	68.000-63.000	A	0.000	0.000	4.442	0.000	0.00
		B	0.000	0.000	4.442	0.000	0.00
		C	0.000	0.000	8.883	0.000	0.14
L20	63.000-58.000	A	0.000	0.000	4.442	0.000	0.00
		B	0.000	0.000	4.442	0.000	0.00
		C	0.000	0.000	8.883	0.000	0.14
L21	58.000-53.000	A	0.000	0.000	4.442	0.000	0.00
		B	0.000	0.000	4.442	0.000	0.00
		C	0.000	0.000	8.883	0.000	0.14
L22	53.000-48.000	A	0.000	0.000	4.442	0.000	0.00
		B	0.000	0.000	4.442	0.000	0.00
		C	0.000	0.000	8.883	0.000	0.14
L23	48.000-43.000	A	0.000	0.000	4.442	0.000	0.00
		B	0.000	0.000	4.442	0.000	0.00
		C	0.000	0.000	8.883	0.000	0.14
L24	43.000-37.750	A	0.000	0.000	4.664	0.000	0.00
		B	0.000	0.000	4.664	0.000	0.00
		C	0.000	0.000	9.328	0.000	0.14
L25	37.750-37.500	A	0.000	0.000	0.222	0.000	0.00
		B	0.000	0.000	0.222	0.000	0.00
		C	0.000	0.000	0.444	0.000	0.01
L26	37.500-32.500	A	0.000	0.000	4.442	0.000	0.00
		B	0.000	0.000	4.442	0.000	0.00
		C	0.000	0.000	8.883	0.000	0.14
L27	32.500-27.500	A	0.000	0.000	4.442	0.000	0.00
		B	0.000	0.000	4.442	0.000	0.00
		C	0.000	0.000	8.883	0.000	0.14
L28	27.500-22.500	A	0.000	0.000	4.442	0.000	0.00
		B	0.000	0.000	4.442	0.000	0.00
		C	0.000	0.000	8.883	0.000	0.14
L29	22.500-17.500	A	0.000	0.000	4.442	0.000	0.00
		B	0.000	0.000	4.442	0.000	0.00
		C	0.000	0.000	8.883	0.000	0.14
L30	17.500-12.500	A	0.000	0.000	4.442	0.000	0.00
		B	0.000	0.000	4.442	0.000	0.00
		C	0.000	0.000	8.883	0.000	0.14
L31	12.500-7.500	A	0.000	0.000	4.442	0.000	0.00
		B	0.000	0.000	4.442	0.000	0.00
		C	0.000	0.000	8.883	0.000	0.14
L32	7.500-2.750	A	0.000	0.000	4.220	0.000	0.00
		B	0.000	0.000	4.220	0.000	0.00
		C	0.000	0.000	8.439	0.000	0.13
L33	2.750-2.500	A	0.000	0.000	0.222	0.000	0.00
		B	0.000	0.000	0.222	0.000	0.00
		C	0.000	0.000	0.444	0.000	0.01
L34	2.500-0.000	A	0.000	0.000	1.777	0.000	0.00
		B	0.000	0.000	1.777	0.000	0.00
		C	0.000	0.000	3.553	0.000	0.07

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

Tower Sectio n	Tower Elevation ft	Face or Leg	Ice Thickness in	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> In Face ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Out Face ft <sup>2</sup>	Weight K
L1	133.500-128.500	A	1.463	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	0.000	0.02
L2	128.500-123.500	A	1.458	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	0.000	0.04
L3	123.500-121.500	A	1.454	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	0.000	0.01
L4	121.500-119.000	A	1.451	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00



Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> In Face ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Out Face ft <sup>2</sup>	Weight K
L5	119.000-114.000	C		0.000	0.000	0.000	0.000	0.02
		A	1.446	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
L6	114.000-109.000	C		0.000	0.000	0.000	0.000	0.05
		A	1.440	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
L7	109.000-104.000	C		0.000	0.000	0.000	0.000	0.05
		A	1.433	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
L8	104.000-99.000	C		0.000	0.000	0.000	0.000	0.05
		A	1.427	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
L9	99.000-94.000	C		0.000	0.000	0.000	0.000	0.08
		A	1.419	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
L10	94.000-89.000	C		0.000	0.000	0.000	0.000	0.12
		A	1.412	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
L11	89.000-85.250	C		0.000	0.000	0.000	0.000	0.14
		A	1.405	0.000	0.000	1.409	0.000	0.02
		B		0.000	0.000	1.409	0.000	0.02
L12	85.250-85.000	C		0.000	0.000	2.818	0.000	0.14
		A	1.402	0.000	0.000	0.201	0.000	0.00
		B		0.000	0.000	0.201	0.000	0.00
L13	85.000-80.000	C		0.000	0.000	0.402	0.000	0.01
		A	1.397	0.000	0.000	4.021	0.000	0.05
		B		0.000	0.000	4.021	0.000	0.05
L14	80.000-75.000	C		0.000	0.000	8.043	0.000	0.24
		A	1.389	0.000	0.000	2.410	0.000	0.03
		B		0.000	0.000	2.410	0.000	0.03
L15	75.000-74.000	C		0.000	0.000	4.820	0.000	0.20
		A	1.383	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
L16	74.000-69.000	C		0.000	0.000	0.000	0.000	0.03
		A	1.377	0.000	0.000	1.746	0.000	0.02
		B		0.000	0.000	1.746	0.000	0.02
L17	69.000-68.250	C		0.000	0.000	3.491	0.000	0.17
		A	1.372	0.000	0.000	0.872	0.000	0.01
		B		0.000	0.000	0.872	0.000	0.01
L18	68.250-68.000	C		0.000	0.000	1.744	0.000	0.04
		A	1.371	0.000	0.000	0.291	0.000	0.00
		B		0.000	0.000	0.291	0.000	0.00
L19	68.000-63.000	C		0.000	0.000	0.581	0.000	0.01
		A	1.365	0.000	0.000	5.807	0.000	0.05
		B		0.000	0.000	5.807	0.000	0.05
L20	63.000-58.000	C		0.000	0.000	11.614	0.000	0.24
		A	1.355	0.000	0.000	5.796	0.000	0.05
		B		0.000	0.000	5.796	0.000	0.05
L21	58.000-53.000	C		0.000	0.000	11.593	0.000	0.24
		A	1.343	0.000	0.000	5.785	0.000	0.05
		B		0.000	0.000	5.785	0.000	0.05
L22	53.000-48.000	C		0.000	0.000	11.569	0.000	0.24
		A	1.330	0.000	0.000	5.772	0.000	0.05
		B		0.000	0.000	5.772	0.000	0.05
L23	48.000-43.000	C		0.000	0.000	11.544	0.000	0.24
		A	1.317	0.000	0.000	5.758	0.000	0.05
		B		0.000	0.000	5.758	0.000	0.05
L24	43.000-37.750	C		0.000	0.000	11.517	0.000	0.24
		A	1.301	0.000	0.000	6.030	0.000	0.05
		B		0.000	0.000	6.030	0.000	0.05
L25	37.750-37.500	C		0.000	0.000	12.059	0.000	0.25
		A	1.292	0.000	0.000	0.287	0.000	0.00
		B		0.000	0.000	0.287	0.000	0.00
L26	37.500-32.500	C		0.000	0.000	0.574	0.000	0.01
		A	1.282	0.000	0.000	5.724	0.000	0.05
		B		0.000	0.000	5.724	0.000	0.05
L27	32.500-27.500	C		0.000	0.000	11.448	0.000	0.23
		A	1.263	0.000	0.000	5.705	0.000	0.05
		B		0.000	0.000	5.705	0.000	0.05

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	$A_R$ ft <sup>2</sup>	$A_F$ ft <sup>2</sup>	$C_{AA}$ In Face ft <sup>2</sup>	$C_{AA}$ Out Face ft <sup>2</sup>	Weight K
L28	27.500-22.500	C	1.240	0.000	0.000	11.409	0.000	0.23
		A		0.000	0.000	5.682	0.000	0.05
		B		0.000	0.000	5.682	0.000	0.05
L29	22.500-17.500	C	1.213	0.000	0.000	11.363	0.000	0.23
		A		0.000	0.000	5.654	0.000	0.05
		B		0.000	0.000	5.654	0.000	0.05
L30	17.500-12.500	C	1.178	0.000	0.000	11.309	0.000	0.23
		A		0.000	0.000	5.620	0.000	0.04
		B		0.000	0.000	5.620	0.000	0.04
L31	12.500-7.500	C	1.131	0.000	0.000	11.240	0.000	0.23
		A		0.000	0.000	5.573	0.000	0.04
		B		0.000	0.000	5.573	0.000	0.04
L32	7.500-2.750	C	1.058	0.000	0.000	11.146	0.000	0.22
		A		0.000	0.000	5.225	0.000	0.04
		B		0.000	0.000	5.225	0.000	0.04
L33	2.750-2.500	C	0.990	0.000	0.000	10.450	0.000	0.20
		A		0.000	0.000	0.272	0.000	0.00
		B		0.000	0.000	0.272	0.000	0.00
L34	2.500-0.000	C	0.919	0.000	0.000	0.543	0.000	0.01
		A		0.000	0.000	2.144	0.000	0.01
		B		0.000	0.000	2.144	0.000	0.01
		C		0.000	0.000	4.288	0.000	0.09

### Feed Line Center of Pressure

Section	Elevation ft	$CP_x$ in	$CP_z$ in	$CP_x$ Ice in	$CP_z$ Ice in
L1	133.500-128.500	0.0000	0.0000	0.0000	0.0000
L2	128.500-123.500	0.0000	0.0000	0.0000	0.0000
L3	123.500-121.500	0.0000	0.0000	0.0000	0.0000
L4	121.500-119.000	0.0000	0.0000	0.0000	0.0000
L5	119.000-114.000	0.0000	0.0000	0.0000	0.0000
L6	114.000-109.000	0.0000	0.0000	0.0000	0.0000
L7	109.000-104.000	0.0000	0.0000	0.0000	0.0000
L8	104.000-99.000	0.0000	0.0000	0.0000	0.0000
L9	99.000-94.000	0.0000	0.0000	0.0000	0.0000
L10	94.000-89.000	0.0000	0.0000	0.0000	0.0000
L11	89.000-85.250	-0.4429	-1.6529	-0.4150	-1.5489
L12	85.250-85.000	-0.6010	-2.2431	-0.6455	-2.4091
L13	85.000-80.000	-0.6062	-2.2625	-0.6519	-2.4328
L14	80.000-75.000	-0.5256	-1.9617	-0.4959	-1.8508
L15	75.000-74.000	0.0000	0.0000	0.0000	0.0000
L16	74.000-69.000	-0.4229	-1.5782	-0.4090	-1.5263
L17	69.000-68.250	-0.7330	-2.7355	-0.7990	-2.9819
L18	68.250-68.000	-0.7352	-2.7436	-0.8013	-2.9907
L19	68.000-63.000	-0.7417	-2.7681	-0.8093	-3.0202
L20	63.000-58.000	-0.7539	-2.8136	-0.8240	-3.0751
L21	58.000-53.000	-0.7658	-2.8580	-0.8383	-3.1285
L22	53.000-48.000	-0.7774	-2.9012	-0.8522	-3.1804
L23	48.000-43.000	-0.7887	-2.9434	-0.8657	-3.2308
L24	43.000-37.750	-0.8000	-2.9856	-0.8791	-3.2808
L25	37.750-37.500	-0.7991	-2.9821	-0.8778	-3.2760
L26	37.500-32.500	-0.8047	-3.0032	-0.8840	-3.2990
L27	32.500-27.500	-0.8154	-3.0430	-0.8963	-3.3449
L28	27.500-22.500	-0.8257	-3.0816	-0.9080	-3.3887
L29	22.500-17.500	-0.8359	-3.1195	-0.9191	-3.4302
L30	17.500-12.500	-0.8457	-3.1564	-0.9294	-3.4687
L31	12.500-7.500	-0.8554	-3.1924	-0.9385	-3.5027
L32	7.500-2.750	-0.8646	-3.2268	-0.9452	-3.5274
L33	2.750-2.500	-0.8690	-3.2432	-0.9460	-3.5303
L34	2.500-0.000	-0.8816	-3.2902	-0.8398	-3.1343

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 <sub>a</sub> No Ice	K <sub>a</sub> Ice
L11	27	MP3-08.5 Reinforcement	85.25 - 87.00	1.0000	1.0000
L11	28	MP3-08.5 Reinforcement	85.25 - 87.00	1.0000	1.0000
L11	29	MP3-08.5 Reinforcement	85.25 - 87.00	1.0000	1.0000
L11	30	MP3-08.5 Reinforcement	85.25 - 87.00	1.0000	1.0000
L12	27	MP3-08.5 Reinforcement	85.00 - 85.25	1.0000	1.0000
L12	28	MP3-08.5 Reinforcement	85.00 - 85.25	1.0000	1.0000
L12	29	MP3-08.5 Reinforcement	85.00 - 85.25	1.0000	1.0000
L12	30	MP3-08.5 Reinforcement	85.00 - 85.25	1.0000	1.0000
L13	27	MP3-08.5 Reinforcement	80.00 - 85.00	1.0000	1.0000
L13	28	MP3-08.5 Reinforcement	80.00 - 85.00	1.0000	1.0000
L13	29	MP3-08.5 Reinforcement	80.00 - 85.00	1.0000	1.0000
L13	30	MP3-08.5 Reinforcement	80.00 - 85.00	1.0000	1.0000
L14	27	MP3-08.5 Reinforcement	77.00 - 80.00	1.0000	1.0000
L14	28	MP3-08.5 Reinforcement	77.00 - 80.00	1.0000	1.0000
L14	29	MP3-08.5 Reinforcement	77.00 - 80.00	1.0000	1.0000
L14	30	MP3-08.5 Reinforcement	77.00 - 80.00	1.0000	1.0000
L16	23	MP3-05 Reinforcement	69.00 - 70.50	1.0000	1.0000
L16	24	MP3-05 Reinforcement	69.00 - 70.50	1.0000	1.0000
L16	25	MP3-05 Reinforcement	69.00 - 70.50	1.0000	1.0000
L16	26	MP3-05 Reinforcement	69.00 - 70.50	1.0000	1.0000
L17	23	MP3-05 Reinforcement	68.25 - 69.00	1.0000	1.0000
L17	24	MP3-05 Reinforcement	68.25 - 69.00	1.0000	1.0000
L17	25	MP3-05 Reinforcement	68.25 - 69.00	1.0000	1.0000
L17	26	MP3-05 Reinforcement	68.25 - 69.00	1.0000	1.0000
L18	23	MP3-05 Reinforcement	68.00 - 68.25	1.0000	1.0000
L18	24	MP3-05 Reinforcement	68.00 - 68.25	1.0000	1.0000
L18	25	MP3-05 Reinforcement	68.00 - 68.25	1.0000	1.0000
L18	26	MP3-05 Reinforcement	68.00 - 68.25	1.0000	1.0000
L19	23	MP3-05 Reinforcement	63.00 - 68.00	1.0000	1.0000
L19	24	MP3-05 Reinforcement	63.00 - 68.00	1.0000	1.0000
L19	25	MP3-05 Reinforcement	63.00 - 68.00	1.0000	1.0000
L19	26	MP3-05 Reinforcement	63.00 - 68.00	1.0000	1.0000
L20	23	MP3-05 Reinforcement	58.00 - 63.00	1.0000	1.0000
L20	24	MP3-05 Reinforcement	58.00 - 63.00	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L20	25	MP3-05 Reinforcement	58.00 - 63.00	1.0000	1.0000
L20	26	MP3-05 Reinforcement	58.00 - 63.00	1.0000	1.0000
L21	23	MP3-05 Reinforcement	53.00 - 58.00	1.0000	1.0000
L21	24	MP3-05 Reinforcement	53.00 - 58.00	1.0000	1.0000
L21	25	MP3-05 Reinforcement	53.00 - 58.00	1.0000	1.0000
L21	26	MP3-05 Reinforcement	53.00 - 58.00	1.0000	1.0000
L22	23	MP3-05 Reinforcement	48.00 - 53.00	1.0000	1.0000
L22	24	MP3-05 Reinforcement	48.00 - 53.00	1.0000	1.0000
L22	25	MP3-05 Reinforcement	48.00 - 53.00	1.0000	1.0000
L22	26	MP3-05 Reinforcement	48.00 - 53.00	1.0000	1.0000
L23	23	MP3-05 Reinforcement	43.00 - 48.00	1.0000	1.0000
L23	24	MP3-05 Reinforcement	43.00 - 48.00	1.0000	1.0000
L23	25	MP3-05 Reinforcement	43.00 - 48.00	1.0000	1.0000
L23	26	MP3-05 Reinforcement	43.00 - 48.00	1.0000	1.0000
L24	23	MP3-05 Reinforcement	37.75 - 43.00	1.0000	1.0000
L24	24	MP3-05 Reinforcement	37.75 - 43.00	1.0000	1.0000
L24	25	MP3-05 Reinforcement	37.75 - 43.00	1.0000	1.0000
L24	26	MP3-05 Reinforcement	37.75 - 43.00	1.0000	1.0000
L26	23	MP3-05 Reinforcement	32.50 - 37.50	1.0000	1.0000
L26	24	MP3-05 Reinforcement	32.50 - 37.50	1.0000	1.0000
L26	25	MP3-05 Reinforcement	32.50 - 37.50	1.0000	1.0000
L26	26	MP3-05 Reinforcement	32.50 - 37.50	1.0000	1.0000
L27	23	MP3-05 Reinforcement	27.50 - 32.50	1.0000	1.0000
L27	24	MP3-05 Reinforcement	27.50 - 32.50	1.0000	1.0000
L27	25	MP3-05 Reinforcement	27.50 - 32.50	1.0000	1.0000
L27	26	MP3-05 Reinforcement	27.50 - 32.50	1.0000	1.0000
L28	23	MP3-05 Reinforcement	22.50 - 27.50	1.0000	1.0000
L28	24	MP3-05 Reinforcement	22.50 - 27.50	1.0000	1.0000
L28	25	MP3-05 Reinforcement	22.50 - 27.50	1.0000	1.0000
L28	26	MP3-05 Reinforcement	22.50 - 27.50	1.0000	1.0000
L29	23	MP3-05 Reinforcement	17.50 - 22.50	1.0000	1.0000
L29	24	MP3-05 Reinforcement	17.50 - 22.50	1.0000	1.0000
L29	25	MP3-05 Reinforcement	17.50 - 22.50	1.0000	1.0000
L29	26	MP3-05 Reinforcement	17.50 - 22.50	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	$K_a$ No Ice	$K_a$ Ice
L30	23	MP3-05 Reinforcement	12.50 - 17.50	1.0000	1.0000
L30	24	MP3-05 Reinforcement	12.50 - 17.50	1.0000	1.0000
L30	25	MP3-05 Reinforcement	12.50 - 17.50	1.0000	1.0000
L30	26	MP3-05 Reinforcement	12.50 - 17.50	1.0000	1.0000
L31	23	MP3-05 Reinforcement	7.50 - 12.50	1.0000	1.0000
L31	24	MP3-05 Reinforcement	7.50 - 12.50	1.0000	1.0000
L31	25	MP3-05 Reinforcement	7.50 - 12.50	1.0000	1.0000
L31	26	MP3-05 Reinforcement	7.50 - 12.50	1.0000	1.0000
L32	23	MP3-05 Reinforcement	2.75 - 7.50	1.0000	1.0000
L32	24	MP3-05 Reinforcement	2.75 - 7.50	1.0000	1.0000
L32	25	MP3-05 Reinforcement	2.75 - 7.50	1.0000	1.0000
L32	26	MP3-05 Reinforcement	2.75 - 7.50	1.0000	1.0000
L33	23	MP3-05 Reinforcement	2.50 - 2.75	1.0000	1.0000
L33	24	MP3-05 Reinforcement	2.50 - 2.75	1.0000	1.0000
L33	25	MP3-05 Reinforcement	2.50 - 2.75	1.0000	1.0000
L33	26	MP3-05 Reinforcement	2.50 - 2.75	1.0000	1.0000
L34	23	MP3-05 Reinforcement	0.50 - 2.50	1.0000	1.0000
L34	24	MP3-05 Reinforcement	0.50 - 2.50	1.0000	1.0000
L34	25	MP3-05 Reinforcement	0.50 - 2.50	1.0000	1.0000
L34	26	MP3-05 Reinforcement	0.50 - 2.50	1.0000	1.0000

### 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 <sup>2</sup>	$C_A A_A$ Side ft <sup>2</sup>	Weight K
P65-15-XLH-RR w/ Mount Pipe	A	From Leg	4.000 0.00 1.00	0.0000	131.000	No Ice	3.930	2.800	0.06
						1/2" Ice	4.330	3.170	0.10
						Ice	4.730	3.550	0.15
						1" Ice	5.590	4.360	0.29
						2" Ice			
P65-15-XLH-RR w/ Mount Pipe	B	From Leg	4.000 0.00 1.00	0.0000	131.000	No Ice	3.930	2.800	0.06
						1/2" Ice	4.330	3.170	0.10
						Ice	4.730	3.550	0.15
						1" Ice	5.590	4.360	0.29
						2" Ice			
P65-15-XLH-RR w/ Mount Pipe	C	From Leg	4.000 0.00 1.00	0.0000	131.000	No Ice	3.930	2.800	0.06
						1/2" Ice	4.330	3.170	0.10
						Ice	4.730	3.550	0.15
						1" Ice	5.590	4.360	0.29
						2" Ice			
DMP65R-BU6D w/ Mount Pipe	A	From Leg	4.000 0.00 1.00	0.0000	131.000	No Ice	11.960	5.970	0.11
						1/2" Ice	12.700	6.630	0.20
						Ice	13.460	7.300	0.30
						1" Ice	15.020	8.690	0.53
						2" Ice			
DMP65R-BU6D w/ Mount Pipe	B	From Leg	4.000 0.00 1.00	0.0000	131.000	No Ice	11.960	5.970	0.11
						1/2" Ice	12.700	6.630	0.20
						Ice	13.460	7.300	0.30
						1" Ice	15.020	8.690	0.53
						2" Ice			
DMP65R-BU4D w/ Mount Pipe	C	From Leg	4.000 0.00 1.00	0.0000	131.000	No Ice	7.530	3.790	0.09
						1/2" Ice	8.040	4.230	0.16
						Ice	8.570	4.680	0.22
						1" Ice	9.680	5.630	0.39
						2" Ice			
OPA65R-BU6D w/ Mount Pipe	A	From Leg	4.000 0.00 1.00	0.0000	131.000	No Ice	12.250	6.050	0.09
						1/2" Ice	13.000	6.710	0.18
						Ice	13.760	7.390	0.27
						1" Ice	15.340	8.790	0.51
						2" Ice			

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C <sub>AA</sub> Front ft <sup>2</sup>	C <sub>AA</sub> Side ft <sup>2</sup>	Weight K
OPA65R-BU6D w/ Mount Pipe	B	From Leg	4.000 0.00 1.00	0.0000	131.000	2" Ice			
						No Ice	12.250	6.050	0.09
						1/2"	13.000	6.710	0.18
						Ice	13.760	7.390	0.27
						1" Ice	15.340	8.790	0.51
OPA65R-BU4D w/ Mount Pipe	C	From Leg	4.000 0.00 1.00	0.0000	131.000	2" Ice			
						No Ice	8.100	4.030	0.08
						1/2"	8.650	4.500	0.14
						Ice	9.210	4.980	0.21
						1" Ice	10.390	5.980	0.38
TT19-08BP111-001	A	From Leg	4.000 0.00 0.00	0.0000	131.000	2" Ice			
						No Ice	0.553	0.446	0.02
						1/2"	0.649	0.534	0.02
						Ice	0.752	0.630	0.03
						1" Ice	0.981	0.845	0.05
TT19-08BP111-001	B	From Leg	4.000 0.00 0.00	0.0000	131.000	2" Ice			
						No Ice	0.553	0.446	0.02
						1/2"	0.649	0.534	0.02
						Ice	0.752	0.630	0.03
						1" Ice	0.981	0.845	0.05
TT19-08BP111-001	C	From Leg	4.000 0.00 0.00	0.0000	131.000	2" Ice			
						No Ice	0.553	0.446	0.02
						1/2"	0.649	0.534	0.02
						Ice	0.752	0.630	0.03
						1" Ice	0.981	0.845	0.05
DC6-48-60-18-8F	A	From Leg	4.000 0.00 0.00	0.0000	131.000	2" Ice			
						No Ice	1.212	1.212	0.03
						1/2"	1.892	1.892	0.05
						Ice	2.105	2.105	0.08
						1" Ice	2.570	2.570	0.14
(2) CM1007-DBPXBC-003	A	From Leg	4.000 0.00 1.00	0.0000	131.000	2" Ice			
						No Ice	0.367	0.134	0.01
						1/2"	0.448	0.183	0.01
						Ice	0.536	0.240	0.02
						1" Ice	0.735	0.375	0.03
(2) CM1007-DBPXBC-003	B	From Leg	4.000 0.00 1.00	0.0000	131.000	2" Ice			
						No Ice	0.367	0.134	0.01
						1/2"	0.448	0.183	0.01
						Ice	0.536	0.240	0.02
						1" Ice	0.735	0.375	0.03
(2) CM1007-DBPXBC-003	C	From Leg	4.000 0.00 1.00	0.0000	131.000	2" Ice			
						No Ice	0.367	0.134	0.01
						1/2"	0.448	0.183	0.01
						Ice	0.536	0.240	0.02
						1" Ice	0.735	0.375	0.03
(2) 860 10025	A	From Leg	4.000 0.00 1.00	0.0000	131.000	2" Ice			
						No Ice	0.137	0.116	0.00
						1/2"	0.190	0.167	0.00
						Ice	0.252	0.225	0.01
						1" Ice	0.400	0.368	0.01
(2) 860 10025	B	From Leg	4.000 0.00 1.00	0.0000	131.000	2" Ice			
						No Ice	0.137	0.116	0.00
						1/2"	0.190	0.167	0.00
						Ice	0.252	0.225	0.01
						1" Ice	0.400	0.368	0.01
(2) 860 10025	C	From Leg	4.000 0.00 1.00	0.0000	131.000	2" Ice			
						No Ice	0.137	0.116	0.00
						1/2"	0.190	0.167	0.00
						Ice	0.252	0.225	0.01
						1" Ice	0.400	0.368	0.01
RRUS 4449 B5/B12	A	From Leg	4.000 0.00 1.00	0.0000	131.000	2" Ice			
						No Ice	1.968	1.408	0.07
						1/2"	2.144	1.564	0.09
						Ice	2.328	1.727	0.11
						1" Ice	2.718	2.075	0.16

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C <sub>AA</sub> Front ft <sup>2</sup>	C <sub>AA</sub> Side ft <sup>2</sup>	Weight K
RRUS 4449 B5/B12	B	From Leg	4.000 0.00 1.00	0.0000	131.000	2" Ice			
						No Ice	1.968	1.408	0.07
						1/2"	2.144	1.564	0.09
						Ice	2.328	1.727	0.11
						1" Ice	2.718	2.075	0.16
RRUS 4449 B5/B12	C	From Leg	4.000 0.00 1.00	0.0000	131.000	2" Ice			
						No Ice	1.968	1.408	0.07
						1/2"	2.144	1.564	0.09
						Ice	2.328	1.727	0.11
						1" Ice	2.718	2.075	0.16
RRUS 8843 B2/B66A	A	From Leg	4.000 0.00 1.00	0.0000	131.000	2" Ice			
						No Ice	1.639	1.353	0.07
						1/2"	1.799	1.500	0.09
						Ice	1.966	1.655	0.11
						1" Ice	2.323	1.986	0.16
RRUS 8843 B2/B66A	B	From Leg	4.000 0.00 1.00	0.0000	131.000	2" Ice			
						No Ice	1.639	1.353	0.07
						1/2"	1.799	1.500	0.09
						Ice	1.966	1.655	0.11
						1" Ice	2.323	1.986	0.16
RRUS 8843 B2/B66A	C	From Leg	4.000 0.00 1.00	0.0000	131.000	2" Ice			
						No Ice	1.639	1.353	0.07
						1/2"	1.799	1.500	0.09
						Ice	1.966	1.655	0.11
						1" Ice	2.323	1.986	0.16
(2) DC6-48-60-18-8F	A	From Leg	4.000 0.00 0.00	0.0000	131.000	2" Ice			
						No Ice	1.212	1.212	0.03
						1/2"	1.892	1.892	0.05
						Ice	2.105	2.105	0.08
						1" Ice	2.570	2.570	0.14
Platform Mount [LP 601-1]	C	None		0.0000	131.000	2" Ice			
						No Ice	28.500	28.500	1.12
						1/2"	31.690	31.690	1.68
						Ice	34.870	34.870	2.28
						1" Ice	41.230	41.230	3.65
HRK12-3HD	C	From Leg	0.000 0.00 3.00	0.0000	131.000	2" Ice			
						No Ice	4.560	4.560	0.25
						1/2"	6.390	6.390	0.31
						Ice	8.180	8.180	0.40
						1" Ice	11.660	11.660	0.66
*****									
APXVSPP18-C-A20 w/ Mount Pipe	A	From Leg	4.000 0.00 2.00	0.0000	119.000	2" Ice			
						No Ice	4.600	4.010	0.10
						1/2"	5.050	4.450	0.16
						Ice	5.500	4.890	0.23
						1" Ice	6.440	5.820	0.42
APXVSPP18-C-A20 w/ Mount Pipe	B	From Leg	4.000 0.00 2.00	0.0000	119.000	2" Ice			
						No Ice	4.600	4.010	0.10
						1/2"	5.050	4.450	0.16
						Ice	5.500	4.890	0.23
						1" Ice	6.440	5.820	0.42
APXVSPP18-C-A20 w/ Mount Pipe	C	From Leg	4.000 0.00 2.00	0.0000	119.000	2" Ice			
						No Ice	4.600	4.010	0.10
						1/2"	5.050	4.450	0.16
						Ice	5.500	4.890	0.23
						1" Ice	6.440	5.820	0.42
APXVTM14-C-120 w/ Mount Pipe	A	From Leg	4.000 0.00 2.00	0.0000	119.000	2" Ice			
						No Ice	4.090	2.860	0.08
						1/2"	4.480	3.230	0.13
						Ice	4.880	3.610	0.19
						1" Ice	5.710	4.400	0.33
APXVTM14-C-120 w/ Mount Pipe	B	From Leg	4.000 0.00 2.00	0.0000	119.000	2" Ice			
						No Ice	4.090	2.860	0.08
						1/2"	4.480	3.230	0.13
						Ice	4.880	3.610	0.19

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft	Azimuth Adjustment t °	Placement ft		C <sub>AA</sub> Front ft <sup>2</sup>	C <sub>AA</sub> Side ft <sup>2</sup>	Weight K
						1" Ice	5.710	4.400	0.33
						2" Ice			
APXVTM14-C-120 w/ Mount Pipe	C	From Leg	4.000 0.00 2.00	0.0000	119.000	No Ice	4.090	2.860	0.08
						1/2"	4.480	3.230	0.13
						Ice	4.880	3.610	0.19
						1" Ice	5.710	4.400	0.33
						2" Ice			
TD-RRH8X20-25	A	From Leg	4.000 0.00 2.00	0.0000	119.000	No Ice	4.045	1.535	0.07
						1/2"	4.298	1.714	0.10
						Ice	4.557	1.901	0.13
						1" Ice	5.098	2.295	0.20
						2" Ice			
TD-RRH8X20-25	B	From Leg	4.000 0.00 2.00	0.0000	119.000	No Ice	4.045	1.535	0.07
						1/2"	4.298	1.714	0.10
						Ice	4.557	1.901	0.13
						1" Ice	5.098	2.295	0.20
						2" Ice			
TD-RRH8X20-25	C	From Leg	4.000 0.00 2.00	0.0000	119.000	No Ice	4.045	1.535	0.07
						1/2"	4.298	1.714	0.10
						Ice	4.557	1.901	0.13
						1" Ice	5.098	2.295	0.20
						2" Ice			
Platform Mount [LP 403-1]	C	None		0.0000	119.000	No Ice	18.940	18.940	1.50
						1/2"	23.310	23.310	1.90
						Ice	27.740	27.740	2.37
						1" Ice	36.770	36.770	3.53
						2" Ice			
*****									
TME-PCS 1900MHz 4x45W-65MHz	A	From Leg	1.000 0.00 0.00	0.0000	117.000	No Ice	2.322	2.238	0.06
						1/2"	2.527	2.441	0.08
						Ice	2.739	2.651	0.11
						1" Ice	3.185	3.093	0.17
						2" Ice			
TME-PCS 1900MHz 4x45W-65MHz	B	From Leg	1.000 0.00 0.00	0.0000	117.000	No Ice	2.322	2.238	0.06
						1/2"	2.527	2.441	0.08
						Ice	2.739	2.651	0.11
						1" Ice	3.185	3.093	0.17
						2" Ice			
TME-PCS 1900MHz 4x45W-65MHz	C	From Leg	1.000 0.00 0.00	0.0000	117.000	No Ice	2.322	2.238	0.06
						1/2"	2.527	2.441	0.08
						Ice	2.739	2.651	0.11
						1" Ice	3.185	3.093	0.17
						2" Ice			
TME-800MHz 2X50W RRH W/FILTER	A	From Leg	1.000 0.00 0.00	0.0000	117.000	No Ice	2.145	2.294	0.07
						1/2"	2.359	2.606	0.10
						Ice	2.583	2.934	0.13
						1" Ice	3.058	3.641	0.21
						2" Ice			
TME-800MHz 2X50W RRH W/FILTER	B	From Leg	1.000 0.00 0.00	0.0000	117.000	No Ice	2.145	2.294	0.07
						1/2"	2.359	2.606	0.10
						Ice	2.583	2.934	0.13
						1" Ice	3.058	3.641	0.21
						2" Ice			
TME-800MHz 2X50W RRH W/FILTER	C	From Leg	1.000 0.00 0.00	0.0000	117.000	No Ice	2.145	2.294	0.07
						1/2"	2.359	2.606	0.10
						Ice	2.583	2.934	0.13
						1" Ice	3.058	3.641	0.21
						2" Ice			
Side Arm Mount [SO 102- 3]	C	None		0.0000	117.000	No Ice	3.600	3.600	0.07
						1/2"	4.180	4.180	0.11
						Ice	4.750	4.750	0.14
						1" Ice	5.900	5.900	0.20
						2" Ice			
2.375" OD x 6' Mount Pipe	A	From Leg	1.000 0.00	0.0000	117.000	No Ice	1.425	1.425	0.03
							1.925	1.925	0.04



Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustmen t °	Placement ft	C <sub>AA</sub> Front ft <sup>2</sup>	C <sub>AA</sub> Side ft <sup>2</sup>	Weight K
			0.00			1/2" Ice 2.294 3.060	2.294 3.060	0.05 0.09
2.375" OD x 6' Mount Pipe	B	From Leg	1.000 0.00 0.00	0.0000	117.000	No Ice 1.425 1/2" Ice 1.925 Ice 2.294 1" Ice 3.060	1.425 1.925 2.294 3.060	0.03 0.04 0.05 0.09
2.375" OD x 6' Mount Pipe	C	From Leg	1.000 0.00 0.00	0.0000	117.000	No Ice 1.425 1/2" Ice 1.925 Ice 2.294 1" Ice 3.060	1.425 1.925 2.294 3.060	0.03 0.04 0.05 0.09
*****								
Platform Mount [LP 403-1]	C	None		0.0000	111.000	No Ice 18.940 1/2" Ice 23.310 Ice 27.740 1" Ice 36.770	18.940 23.310 27.740 36.770	1.50 1.90 2.37 3.53
*****								
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	A	From Leg	4.000 0.00 3.00	0.0000	101.000	No Ice 6.329 1/2" Ice 6.775 Ice 7.214 1" Ice 8.117	5.642 6.426 7.131 8.591	0.11 0.17 0.23 0.38
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	B	From Leg	4.000 0.00 3.00	0.0000	101.000	No Ice 6.329 1/2" Ice 6.775 Ice 7.214 1" Ice 8.117	5.642 6.426 7.131 8.591	0.11 0.17 0.23 0.38
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	C	From Leg	4.000 0.00 3.00	0.0000	101.000	No Ice 6.329 1/2" Ice 6.775 Ice 7.214 1" Ice 8.117	5.642 6.426 7.131 8.591	0.11 0.17 0.23 0.38
APXVAARR24_43-U-NA20 w/ Mount Pipe	A	From Leg	4.000 0.00 3.00	0.0000	101.000	No Ice 14.690 1/2" Ice 15.460 Ice 16.230 1" Ice 17.820	6.870 7.550 8.250 9.670	0.19 0.31 0.46 0.79
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Leg	4.000 0.00 3.00	0.0000	101.000	No Ice 14.690 1/2" Ice 15.460 Ice 16.230 1" Ice 17.820	6.870 7.550 8.250 9.670	0.19 0.31 0.46 0.79
APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Leg	4.000 0.00 3.00	0.0000	101.000	No Ice 14.690 1/2" Ice 15.460 Ice 16.230 1" Ice 17.820	6.870 7.550 8.250 9.670	0.19 0.31 0.46 0.79
AIR 32 B2A B66AA w/ Mount Pipe	A	From Leg	4.000 0.00 3.00	0.0000	101.000	No Ice 7.087 1/2" Ice 7.561 Ice 8.021 1" Ice 8.966	6.374 7.231 7.973 9.507	0.16 0.23 0.30 0.46
AIR 32 B2A B66AA w/ Mount Pipe	B	From Leg	4.000 0.00 3.00	0.0000	101.000	No Ice 7.087 1/2" Ice 7.561 Ice 8.021 1" Ice 8.966	6.374 7.231 7.973 9.507	0.16 0.23 0.30 0.46
AIR 32 B2A B66AA w/ Mount Pipe	C	From Leg	4.000 0.00 3.00	0.0000	101.000	No Ice 7.087 1/2" Ice 7.561 Ice 8.021 1" Ice 8.966	6.374 7.231 7.973 9.507	0.16 0.23 0.30 0.46

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C <sub>AA</sub> Front ft <sup>2</sup>	C <sub>AA</sub> Side ft <sup>2</sup>	Weight K	
(2) KRY 112 144/1	A	From Leg	4.000 0.00 3.00	0.0000	101.000	2" Ice No Ice 1/2" Ice 1" Ice	0.350 0.426 0.509 0.698	0.175 0.234 0.301 0.456	0.01 0.01 0.02 0.03
KRY 112 144/1	B	From Leg	4.000 0.00 3.00	0.0000	101.000	2" Ice No Ice 1/2" Ice 1" Ice	0.350 0.426 0.509 0.698	0.175 0.234 0.301 0.456	0.01 0.01 0.02 0.03
RADIO 4449 B12/B71	A	From Leg	4.000 0.00 3.00	0.0000	101.000	2" Ice No Ice 1/2" Ice 1" Ice	1.650 1.810 1.978 2.336	1.163 1.301 1.447 1.762	0.07 0.09 0.11 0.16
RADIO 4449 B12/B71	B	From Leg	4.000 0.00 3.00	0.0000	101.000	2" Ice No Ice 1/2" Ice 1" Ice	1.650 1.810 1.978 2.336	1.163 1.301 1.447 1.762	0.07 0.09 0.11 0.16
RADIO 4449 B12/B71	C	From Leg	4.000 0.00 3.00	0.0000	101.000	2" Ice No Ice 1/2" Ice 1" Ice	1.650 1.810 1.978 2.336	1.163 1.301 1.447 1.762	0.07 0.09 0.11 0.16
Platform Mount [LP 404-1]	C	None		0.0000	101.000	2" Ice No Ice 1/2" Ice 1" Ice	24.600 31.630 38.370 51.530	24.600 31.630 38.370 51.530	2.04 2.60 3.29 5.06
*****									
APXV18-206517S-ACU	A	From Leg	1.000 0.00 0.00	0.0000	95.000	2" Ice No Ice 1/2" Ice 1" Ice	3.830 4.430 5.050 6.330	1.810 2.380 2.970 4.190	0.03 0.06 0.09 0.17
APXV18-206517S-ACU	B	From Leg	1.000 0.00 0.00	0.0000	95.000	2" Ice No Ice 1/2" Ice 1" Ice	3.830 4.430 5.050 6.330	1.810 2.380 2.970 4.190	0.03 0.06 0.09 0.17
APXV18-206517S-ACU	C	From Leg	1.000 0.00 0.00	0.0000	95.000	2" Ice No Ice 1/2" Ice 1" Ice	3.830 4.430 5.050 6.330	1.810 2.380 2.970 4.190	0.03 0.06 0.09 0.17
Pipe Mount [PM 602-3]	C	None		0.0000	95.000	2" Ice No Ice 1/2" Ice 1" Ice	6.670 7.700 8.740 10.900	6.670 7.700 8.740 10.900	0.28 0.34 0.42 0.63
(2) Side Arm Mount [SO 102-3]	C	None		0.0000	95.000	2" Ice No Ice 1/2" Ice 1" Ice	3.600 4.180 4.750 5.900	3.600 4.180 4.750 5.900	0.07 0.11 0.14 0.20
*****									
58532A	A	From Leg	1.000 0.00 1.00	-30.0000	60.000	2" Ice No Ice 1/2" Ice 1" Ice	0.189 0.248 0.315 0.470	0.189 0.248 0.315 0.470	0.00 0.00 0.01 0.02
Side Arm Mount [SO 304-1]	A	From Leg	0.000 0.00	-30.0000	60.000	2" Ice No Ice	0.310 0.500	0.880 1.260	0.02 0.03

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C <sub>AA</sub> Front ft <sup>2</sup>	C <sub>AA</sub> Side ft <sup>2</sup>	Weight K
			0.00			1/2" Ice 1.290	1.670 2.580	0.05 0.09
*****								
KS24019-L112A	A	From Leg	1.000 0.00 1.00	-60.0000	50.000	No Ice 0.141 1/2" Ice 0.198 Ice 0.262 1" Ice 0.415 2" Ice 0.415	0.141 0.198 0.262 0.415 0.415	0.01 0.01 0.01 0.02
Side Arm Mount [SO 701-1]	A	From Leg	0.000 0.00 0.00	-60.0000	50.000	No Ice 0.850 1/2" Ice 1.140 Ice 1.430 1" Ice 2.010 2" Ice 2.010	1.670 2.340 3.010 4.350	0.07 0.08 0.09 0.12
*****								

**Tower Pressures - No Ice**

**G<sub>H</sub> = 1.100**

Section Elevation ft	z ft	K <sub>Z</sub>	q <sub>z</sub> psf	A <sub>G</sub> ft <sup>2</sup>	F a c e	A <sub>F</sub> ft <sup>2</sup>	A <sub>R</sub> ft <sup>2</sup>	A <sub>leg</sub> ft <sup>2</sup>	Leg %	C <sub>AA</sub> In Face ft <sup>2</sup>	C <sub>AA</sub> Out Face ft <sup>2</sup>
L1 133.500-128.500	131.000	1.34	47.59	4.479	A	0.000	4.479	4.479	100.00	0.000	0.000
					B	0.000	4.479	100.00	0.000	0.000	
					C	0.000	4.479	100.00	0.000	0.000	
L2 128.500-123.500	126.000	1.329	47.20	4.479	A	0.000	4.479	4.479	100.00	0.000	0.000
					B	0.000	4.479	100.00	0.000	0.000	
					C	0.000	4.479	100.00	0.000	0.000	
L3 123.500-121.500	122.500	1.321	46.92	1.792	A	0.000	1.792	1.792	100.00	0.000	0.000
					B	0.000	1.792	100.00	0.000	0.000	
					C	0.000	1.792	100.00	0.000	0.000	
L4 121.500-119.000	120.107	1.315	46.73	3.411	A	0.000	3.411	3.411	100.00	0.000	0.000
					B	0.000	3.411	100.00	0.000	0.000	
					C	0.000	3.411	100.00	0.000	0.000	
L5 119.000-114.000	116.482	1.307	46.43	9.658	A	0.000	9.658	9.658	100.00	0.000	0.000
					B	0.000	9.658	100.00	0.000	0.000	
					C	0.000	9.658	100.00	0.000	0.000	
L6 114.000-109.000	111.483	1.295	46.00	10.068	A	0.000	10.068	10.068	100.00	0.000	0.000
					B	0.000	10.068	100.00	0.000	0.000	
					C	0.000	10.068	100.00	0.000	0.000	
L7 109.000-104.000	106.484	1.282	45.56	10.478	A	0.000	10.478	10.478	100.00	0.000	0.000
					B	0.000	10.478	100.00	0.000	0.000	
					C	0.000	10.478	100.00	0.000	0.000	
L8 104.000-99.000	101.484	1.27	45.10	10.888	A	0.000	10.888	10.888	100.00	0.000	0.000
					B	0.000	10.888	100.00	0.000	0.000	
					C	0.000	10.888	100.00	0.000	0.000	
L9 99.000-94.000	96.485	1.256	44.62	11.297	A	0.000	11.297	11.297	100.00	0.000	0.000
					B	0.000	11.297	100.00	0.000	0.000	
					C	0.000	11.297	100.00	0.000	0.000	
L10 94.000-89.000	91.485	1.242	44.13	11.707	A	0.000	11.707	11.707	100.00	0.000	0.000
					B	0.000	11.707	100.00	0.000	0.000	
					C	0.000	11.707	100.00	0.000	0.000	
L11 89.000-85.250	87.117	1.229	43.67	9.049	A	0.000	9.049	9.049	100.00	1.121	0.000
					B	0.000	9.049	100.00	1.121	0.000	
					C	0.000	9.049	100.00	2.241	0.000	
L12 85.250-85.000	85.125	1.223	43.46	0.610	A	0.000	0.610	0.610	100.00	0.160	0.000
					B	0.000	0.610	100.00	0.160	0.000	
					C	0.000	0.610	100.00	0.320	0.000	
L13 85.000-80.000	82.486	1.215	43.17	12.408	A	0.000	12.408	12.408	100.00	3.202	0.000
					B	0.000	12.408	100.00	3.202	0.000	
					C	0.000	12.408	100.00	6.403	0.000	

Section Elevation ft	z ft	$K_z$	$q_z$ psf	$A_G$ ft <sup>2</sup>	F a c e	$A_F$ ft <sup>2</sup>	$A_R$ ft <sup>2</sup>	$A_{leg}$ ft <sup>2</sup>	Leg %	$C_{AA}$ In Face ft <sup>2</sup>	$C_{AA}$ Out Face ft <sup>2</sup>
L14 80.000-75.000	77.487	1.199	42.61	12.818	A	0.000	12.818	12.818	100.00	1.921	0.000
					B	0.000	12.818	100.00	1.921	0.000	
					C	0.000	12.818	100.00	3.842	0.000	
L15 75.000-74.000	74.499	1.19	42.26	2.575	A	0.000	2.575	2.575	100.00	0.000	0.000
					B	0.000	2.575	100.00	0.000	0.000	
					C	0.000	2.575	100.00	0.000	0.000	
L16 74.000-69.000	71.487	1.179	41.89	13.122	A	0.000	13.122	13.122	100.00	1.333	0.000
					B	0.000	13.122	100.00	1.333	0.000	
					C	0.000	13.122	100.00	2.665	0.000	
L17 69.000-68.250	68.625	1.169	41.53	2.004	A	0.000	2.004	2.004	100.00	0.666	0.000
					B	0.000	2.004	100.00	0.666	0.000	
					C	0.000	2.004	100.00	1.333	0.000	
L18 68.250-68.000	68.125	1.167	41.47	0.668	A	0.000	0.668	0.668	100.00	0.222	0.000
					B	0.000	0.668	100.00	0.222	0.000	
					C	0.000	0.668	100.00	0.444	0.000	
L19 68.000-63.000	65.487	1.158	41.13	13.575	A	0.000	13.575	13.575	100.00	4.442	0.000
					B	0.000	13.575	100.00	4.442	0.000	
					C	0.000	13.575	100.00	8.883	0.000	
L20 63.000-58.000	60.488	1.139	40.44	13.987	A	0.000	13.987	13.987	100.00	4.442	0.000
					B	0.000	13.987	100.00	4.442	0.000	
					C	0.000	13.987	100.00	8.883	0.000	
L21 58.000-53.000	55.488	1.118	39.72	14.399	A	0.000	14.399	14.399	100.00	4.442	0.000
					B	0.000	14.399	100.00	4.442	0.000	
					C	0.000	14.399	100.00	8.883	0.000	
L22 53.000-48.000	50.489	1.096	38.93	14.809	A	0.000	14.809	14.809	100.00	4.442	0.000
					B	0.000	14.809	100.00	4.442	0.000	
					C	0.000	14.809	100.00	8.883	0.000	
L23 48.000-43.000	45.489	1.072	38.09	15.220	A	0.000	15.220	15.220	100.00	4.442	0.000
					B	0.000	15.220	100.00	4.442	0.000	
					C	0.000	15.220	100.00	8.883	0.000	
L24 43.000-37.750	40.363	1.046	37.14	16.422	A	0.000	16.422	16.422	100.00	4.664	0.000
					B	0.000	16.422	100.00	4.664	0.000	
					C	0.000	16.422	100.00	9.328	0.000	
L25 37.750-37.500	37.625	1.03	36.60	0.779	A	0.000	0.779	0.779	100.00	0.222	0.000
					B	0.000	0.779	100.00	0.222	0.000	
					C	0.000	0.779	100.00	0.444	0.000	
L26 37.500-32.500	34.989	1.015	36.04	15.804	A	0.000	15.804	15.804	100.00	4.442	0.000
					B	0.000	15.804	100.00	4.442	0.000	
					C	0.000	15.804	100.00	8.883	0.000	
L27 32.500-27.500	29.990	0.982	34.89	16.214	A	0.000	16.214	16.214	100.00	4.442	0.000
					B	0.000	16.214	100.00	4.442	0.000	
					C	0.000	16.214	100.00	8.883	0.000	
L28 27.500-22.500	24.990	0.945	33.58	16.626	A	0.000	16.626	16.626	100.00	4.442	0.000
					B	0.000	16.626	100.00	4.442	0.000	
					C	0.000	16.626	100.00	8.883	0.000	
L29 22.500-17.500	19.990	0.902	32.04	17.036	A	0.000	17.036	17.036	100.00	4.442	0.000
					B	0.000	17.036	100.00	4.442	0.000	
					C	0.000	17.036	100.00	8.883	0.000	
L30 17.500-12.500	14.990	0.85	30.20	17.447	A	0.000	17.447	17.447	100.00	4.442	0.000
					B	0.000	17.447	100.00	4.442	0.000	
					C	0.000	17.447	100.00	8.883	0.000	
L31 12.500-7.500	9.990	0.85	30.20	17.858	A	0.000	17.858	17.858	100.00	4.442	0.000
					B	0.000	17.858	100.00	4.442	0.000	
					C	0.000	17.858	100.00	8.883	0.000	
L32 7.500-2.750	5.117	0.85	30.20	17.344	A	0.000	17.344	17.344	100.00	4.220	0.000
					B	0.000	17.344	100.00	4.220	0.000	
					C	0.000	17.344	100.00	8.439	0.000	
L33 2.750-2.500	2.625	0.85	30.20	0.924	A	0.000	0.924	0.924	100.00	0.222	0.000
					B	0.000	0.924	100.00	0.222	0.000	
					C	0.000	0.924	100.00	0.444	0.000	
L34 2.500-0.000	1.248	0.85	30.20	9.293	A	0.000	9.293	9.293	100.00	1.777	0.000
					B	0.000	9.293	100.00	1.777	0.000	
					C	0.000	9.293	100.00	3.553	0.000	

**Tower Pressure - With Ice**

$G_H = 1.100$

Section Elevation ft	z ft	K <sub>Z</sub>	q <sub>z</sub> psf	t <sub>z</sub> in	A <sub>G</sub> ft <sup>2</sup>	F a c e	A <sub>F</sub> ft <sup>2</sup>	A <sub>R</sub> ft <sup>2</sup>	A <sub>leg</sub> ft <sup>2</sup>	Leg %	C <sub>A</sub> A <sub>A</sub> In Face ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Out Face ft <sup>2</sup>
L1 133.500- 128.500	131.000	1.34	7.61	1.4635	5.699	A	0.000	5.699	5.699	100.00	0.000	0.000
						B	0.000	5.699	5.699	100.00	0.000	0.000
						C	0.000	5.699	5.699	100.00	0.000	0.000
L2 128.500- 123.500	126.000	1.329	7.55	1.4578	5.694	A	0.000	5.694	5.694	100.00	0.000	0.000
						B	0.000	5.694	5.694	100.00	0.000	0.000
						C	0.000	5.694	5.694	100.00	0.000	0.000
L3 123.500- 121.500	122.500	1.321	7.51	1.4537	2.276	A	0.000	2.276	2.276	100.00	0.000	0.000
						B	0.000	2.276	2.276	100.00	0.000	0.000
						C	0.000	2.276	2.276	100.00	0.000	0.000
L4 121.500- 119.000	120.107	1.315	7.48	1.4508	4.016	A	0.000	4.016	4.016	100.00	0.000	0.000
						B	0.000	4.016	4.016	100.00	0.000	0.000
						C	0.000	4.016	4.016	100.00	0.000	0.000
L5 119.000- 114.000	116.482	1.307	7.43	1.4464	10.864	A	0.000	10.864	10.864	100.00	0.000	0.000
						B	0.000	10.864	10.864	100.00	0.000	0.000
						C	0.000	10.864	10.864	100.00	0.000	0.000
L6 114.000- 109.000	111.483	1.295	7.36	1.4401	11.268	A	0.000	11.268	11.268	100.00	0.000	0.000
						B	0.000	11.268	11.268	100.00	0.000	0.000
						C	0.000	11.268	11.268	100.00	0.000	0.000
L7 109.000- 104.000	106.484	1.282	7.29	1.4335	11.672	A	0.000	11.672	11.672	100.00	0.000	0.000
						B	0.000	11.672	11.672	100.00	0.000	0.000
						C	0.000	11.672	11.672	100.00	0.000	0.000
L8 104.000- 99.000	101.484	1.27	7.22	1.4266	12.076	A	0.000	12.076	12.076	100.00	0.000	0.000
						B	0.000	12.076	12.076	100.00	0.000	0.000
						C	0.000	12.076	12.076	100.00	0.000	0.000
L9 99.000- 94.000	96.485	1.256	7.14	1.4194	12.480	A	0.000	12.480	12.480	100.00	0.000	0.000
						B	0.000	12.480	12.480	100.00	0.000	0.000
						C	0.000	12.480	12.480	100.00	0.000	0.000
L10 94.000- 89.000	91.485	1.242	7.06	1.4119	12.884	A	0.000	12.884	12.884	100.00	0.000	0.000
						B	0.000	12.884	12.884	100.00	0.000	0.000
						C	0.000	12.884	12.884	100.00	0.000	0.000
L11 89.000- 85.250	87.117	1.229	6.99	1.4050	9.927	A	0.000	9.927	9.927	100.00	1.409	0.000
						B	0.000	9.927	9.927	100.00	1.409	0.000
						C	0.000	9.927	9.927	100.00	2.818	0.000
L12 85.250- 85.000	85.125	1.223	6.95	1.4017	0.668	A	0.000	0.668	0.668	100.00	0.201	0.000
						B	0.000	0.668	0.668	100.00	0.201	0.000
						C	0.000	0.668	0.668	100.00	0.402	0.000
L13 85.000- 80.000	82.486	1.215	6.91	1.3973	13.572	A	0.000	13.572	13.572	100.00	4.021	0.000
						B	0.000	13.572	13.572	100.00	4.021	0.000
						C	0.000	13.572	13.572	100.00	8.043	0.000
L14 80.000- 75.000	77.487	1.199	6.82	1.3886	13.975	A	0.000	13.975	13.975	100.00	2.410	0.000
						B	0.000	13.975	13.975	100.00	2.410	0.000
						C	0.000	13.975	13.975	100.00	4.820	0.000
L15 75.000- 74.000	74.499	1.19	6.76	1.3832	2.807	A	0.000	2.807	2.807	100.00	0.000	0.000
						B	0.000	2.807	2.807	100.00	0.000	0.000
						C	0.000	2.807	2.807	100.00	0.000	0.000
L16 74.000- 69.000	71.487	1.179	6.70	1.3775	14.270	A	0.000	14.270	14.270	100.00	1.746	0.000
						B	0.000	14.270	14.270	100.00	1.746	0.000
						C	0.000	14.270	14.270	100.00	3.491	0.000
L17 69.000- 68.250	68.625	1.169	6.65	1.3719	2.175	A	0.000	2.175	2.175	100.00	0.872	0.000
						B	0.000	2.175	2.175	100.00	0.872	0.000
						C	0.000	2.175	2.175	100.00	1.744	0.000
L18 68.250- 68.000	68.125	1.167	6.64	1.3708	0.725	A	0.000	0.725	0.725	100.00	0.291	0.000
						B	0.000	0.725	0.725	100.00	0.291	0.000
						C	0.000	0.725	0.725	100.00	0.581	0.000
L19 68.000- 63.000	65.487	1.158	6.58	1.3654	14.713	A	0.000	14.713	14.713	100.00	5.807	0.000
						B	0.000	14.713	14.713	100.00	5.807	0.000
						C	0.000	14.713	14.713	100.00	11.614	0.000
L20 63.000- 58.000	60.488	1.139	6.47	1.3546	15.116	A	0.000	15.116	15.116	100.00	5.796	0.000
						B	0.000	15.116	15.116	100.00	5.796	0.000
						C	0.000	15.116	15.116	100.00	11.593	0.000
L21 58.000- 53.000	55.488	1.118	6.35	1.3430	15.518	A	0.000	15.518	15.518	100.00	5.785	0.000
						B	0.000	15.518	15.518	100.00	5.785	0.000
						C	0.000	15.518	15.518	100.00	11.569	0.000
L22 53.000- 48.000	50.489	1.096	6.23	1.3304	15.918	A	0.000	15.918	15.918	100.00	5.772	0.000
						B	0.000	15.918	15.918	100.00	5.772	0.000
						C	0.000	15.918	15.918	100.00	11.544	0.000

Section Elevation ft	z ft	K <sub>Z</sub>	q <sub>z</sub> psf	t <sub>z</sub> in	A <sub>G</sub> ft <sup>2</sup>	F a c e	A <sub>F</sub> ft <sup>2</sup>	A <sub>R</sub> ft <sup>2</sup>	A <sub>leg</sub> ft <sup>2</sup>	Leg %	C <sub>A</sub> A <sub>A</sub> In Face ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Out Face ft <sup>2</sup>
L23 48.000-43.000	45.489	1.072	6.09	1.3166	16.317	A	0.000	16.317	16.317	100.00	5.758	0.000
						B	0.000	16.317	100.00	5.758	0.000	
						C	0.000	16.317	100.00	11.517	0.000	
L24 43.000-37.750	40.363	1.046	5.94	1.3009	17.561	A	0.000	17.561	17.561	100.00	6.030	0.000
						B	0.000	17.561	100.00	6.030	0.000	
						C	0.000	17.561	100.00	12.059	0.000	
L25 37.750-37.500	37.625	1.03	5.86	1.2918	0.834	A	0.000	0.834	0.834	100.00	0.287	0.000
						B	0.000	0.834	100.00	0.287	0.000	
						C	0.000	0.834	100.00	0.574	0.000	
L26 37.500-32.500	34.989	1.015	5.77	1.2825	16.873	A	0.000	16.873	16.873	100.00	5.724	0.000
						B	0.000	16.873	100.00	5.724	0.000	
						C	0.000	16.873	100.00	11.448	0.000	
L27 32.500-27.500	29.990	0.982	5.58	1.2629	17.266	A	0.000	17.266	17.266	100.00	5.705	0.000
						B	0.000	17.266	100.00	5.705	0.000	
						C	0.000	17.266	100.00	11.409	0.000	
L28 27.500-22.500	24.990	0.945	5.37	1.2400	17.659	A	0.000	17.659	17.659	100.00	5.682	0.000
						B	0.000	17.659	100.00	5.682	0.000	
						C	0.000	17.659	100.00	11.363	0.000	
L29 22.500-17.500	19.990	0.902	5.13	1.2127	18.046	A	0.000	18.046	18.046	100.00	5.654	0.000
						B	0.000	18.046	100.00	5.654	0.000	
						C	0.000	18.046	100.00	11.309	0.000	
L30 17.500-12.500	14.990	0.85	4.83	1.1783	18.429	A	0.000	18.429	18.429	100.00	5.620	0.000
						B	0.000	18.429	100.00	5.620	0.000	
						C	0.000	18.429	100.00	11.240	0.000	
L31 12.500-7.500	9.990	0.85	4.83	1.1314	18.800	A	0.000	18.800	18.800	100.00	5.573	0.000
						B	0.000	18.800	100.00	5.573	0.000	
						C	0.000	18.800	100.00	11.146	0.000	
L32 7.500-2.750	5.117	0.85	4.83	1.0582	18.182	A	0.000	18.182	18.182	100.00	5.225	0.000
						B	0.000	18.182	100.00	5.225	0.000	
						C	0.000	18.182	100.00	10.450	0.000	
L33 2.750-2.500	2.625	0.85	4.83	0.9899	0.965	A	0.000	0.965	0.965	100.00	0.272	0.000
						B	0.000	0.965	100.00	0.272	0.000	
						C	0.000	0.965	100.00	0.543	0.000	
L34 2.500-0.000	1.248	0.85	4.83	0.9189	9.676	A	0.000	9.676	9.676	100.00	2.144	0.000
						B	0.000	9.676	100.00	2.144	0.000	
						C	0.000	9.676	100.00	4.288	0.000	

### Tower Pressure - Service

G<sub>H</sub> = 1.100

Section Elevation ft	z ft	K <sub>Z</sub>	q <sub>z</sub> psf	A <sub>G</sub> ft <sup>2</sup>	F a c e	A <sub>F</sub> ft <sup>2</sup>	A <sub>R</sub> ft <sup>2</sup>	A <sub>leg</sub> ft <sup>2</sup>	Leg %	C <sub>A</sub> A <sub>A</sub> In Face ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Out Face ft <sup>2</sup>
L1 133.500-128.500	131.000	1.34	10.33	4.479	A	0.000	4.479	4.479	100.00	0.000	0.000
					B	0.000	4.479	100.00	0.000	0.000	
					C	0.000	4.479	100.00	0.000	0.000	
L2 128.500-123.500	126.000	1.329	10.24	4.479	A	0.000	4.479	4.479	100.00	0.000	0.000
					B	0.000	4.479	100.00	0.000	0.000	
					C	0.000	4.479	100.00	0.000	0.000	
L3 123.500-121.500	122.500	1.321	10.18	1.792	A	0.000	1.792	1.792	100.00	0.000	0.000
					B	0.000	1.792	100.00	0.000	0.000	
					C	0.000	1.792	100.00	0.000	0.000	
L4 121.500-119.000	120.107	1.315	10.14	3.411	A	0.000	3.411	3.411	100.00	0.000	0.000
					B	0.000	3.411	100.00	0.000	0.000	
					C	0.000	3.411	100.00	0.000	0.000	
L5 119.000-114.000	116.482	1.307	10.07	9.658	A	0.000	9.658	9.658	100.00	0.000	0.000
					B	0.000	9.658	100.00	0.000	0.000	
					C	0.000	9.658	100.00	0.000	0.000	
L6 114.000-109.000	111.483	1.295	9.98	10.068	A	0.000	10.068	10.068	100.00	0.000	0.000
					B	0.000	10.068	100.00	0.000	0.000	
					C	0.000	10.068	100.00	0.000	0.000	
L7 109.000-104.000	106.484	1.282	9.89	10.478	A	0.000	10.478	10.478	100.00	0.000	0.000
					B	0.000	10.478	100.00	0.000	0.000	
					C	0.000	10.478	100.00	0.000	0.000	

Section Elevation ft	z ft	K <sub>Z</sub>	q <sub>z</sub> psf	A <sub>G</sub> ft <sup>2</sup>	F a c e	A <sub>F</sub> ft <sup>2</sup>	A <sub>R</sub> ft <sup>2</sup>	A <sub>leg</sub> ft <sup>2</sup>	Leg %	C <sub>A</sub> A <sub>A</sub> In Face ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Out Face ft <sup>2</sup>
L8 104.000- 99.000	101.484	1.27	9.79	10.888	A	0.000	10.888	10.888	100.00	0.000	0.000
					B	0.000	10.888	100.00	0.000	0.000	
					C	0.000	10.888	100.00	0.000	0.000	
L9 99.000- 94.000	96.485	1.256	9.68	11.297	A	0.000	11.297	11.297	100.00	0.000	0.000
					B	0.000	11.297	100.00	0.000	0.000	
					C	0.000	11.297	100.00	0.000	0.000	
L10 94.000- 89.000	91.485	1.242	9.58	11.707	A	0.000	11.707	11.707	100.00	0.000	0.000
					B	0.000	11.707	100.00	0.000	0.000	
					C	0.000	11.707	100.00	0.000	0.000	
L11 89.000- 85.250	87.117	1.229	9.48	9.049	A	0.000	9.049	9.049	100.00	1.121	0.000
					B	0.000	9.049	100.00	1.121	0.000	
					C	0.000	9.049	100.00	2.241	0.000	
L12 85.250- 85.000	85.125	1.223	9.43	0.610	A	0.000	0.610	0.610	100.00	0.160	0.000
					B	0.000	0.610	100.00	0.160	0.000	
					C	0.000	0.610	100.00	0.320	0.000	
L13 85.000- 80.000	82.486	1.215	9.37	12.408	A	0.000	12.408	12.408	100.00	3.202	0.000
					B	0.000	12.408	100.00	3.202	0.000	
					C	0.000	12.408	100.00	6.403	0.000	
L14 80.000- 75.000	77.487	1.199	9.25	12.818	A	0.000	12.818	12.818	100.00	1.921	0.000
					B	0.000	12.818	100.00	1.921	0.000	
					C	0.000	12.818	100.00	3.842	0.000	
L15 75.000- 74.000	74.499	1.19	9.17	2.575	A	0.000	2.575	2.575	100.00	0.000	0.000
					B	0.000	2.575	100.00	0.000	0.000	
					C	0.000	2.575	100.00	0.000	0.000	
L16 74.000- 69.000	71.487	1.179	9.09	13.122	A	0.000	13.122	13.122	100.00	1.333	0.000
					B	0.000	13.122	100.00	1.333	0.000	
					C	0.000	13.122	100.00	2.665	0.000	
L17 69.000- 68.250	68.625	1.169	9.01	2.004	A	0.000	2.004	2.004	100.00	0.666	0.000
					B	0.000	2.004	100.00	0.666	0.000	
					C	0.000	2.004	100.00	1.333	0.000	
L18 68.250- 68.000	68.125	1.167	9.00	0.668	A	0.000	0.668	0.668	100.00	0.222	0.000
					B	0.000	0.668	100.00	0.222	0.000	
					C	0.000	0.668	100.00	0.444	0.000	
L19 68.000- 63.000	65.487	1.158	8.92	13.575	A	0.000	13.575	13.575	100.00	4.442	0.000
					B	0.000	13.575	100.00	4.442	0.000	
					C	0.000	13.575	100.00	8.883	0.000	
L20 63.000- 58.000	60.488	1.139	8.78	13.987	A	0.000	13.987	13.987	100.00	4.442	0.000
					B	0.000	13.987	100.00	4.442	0.000	
					C	0.000	13.987	100.00	8.883	0.000	
L21 58.000- 53.000	55.488	1.118	8.62	14.399	A	0.000	14.399	14.399	100.00	4.442	0.000
					B	0.000	14.399	100.00	4.442	0.000	
					C	0.000	14.399	100.00	8.883	0.000	
L22 53.000- 48.000	50.489	1.096	8.45	14.809	A	0.000	14.809	14.809	100.00	4.442	0.000
					B	0.000	14.809	100.00	4.442	0.000	
					C	0.000	14.809	100.00	8.883	0.000	
L23 48.000- 43.000	45.489	1.072	8.27	15.220	A	0.000	15.220	15.220	100.00	4.442	0.000
					B	0.000	15.220	100.00	4.442	0.000	
					C	0.000	15.220	100.00	8.883	0.000	
L24 43.000- 37.750	40.363	1.046	8.06	16.422	A	0.000	16.422	16.422	100.00	4.664	0.000
					B	0.000	16.422	100.00	4.664	0.000	
					C	0.000	16.422	100.00	9.328	0.000	
L25 37.750- 37.500	37.625	1.03	7.94	0.779	A	0.000	0.779	0.779	100.00	0.222	0.000
					B	0.000	0.779	100.00	0.222	0.000	
					C	0.000	0.779	100.00	0.444	0.000	
L26 37.500- 32.500	34.989	1.015	7.82	15.804	A	0.000	15.804	15.804	100.00	4.442	0.000
					B	0.000	15.804	100.00	4.442	0.000	
					C	0.000	15.804	100.00	8.883	0.000	
L27 32.500- 27.500	29.990	0.982	7.57	16.214	A	0.000	16.214	16.214	100.00	4.442	0.000
					B	0.000	16.214	100.00	4.442	0.000	
					C	0.000	16.214	100.00	8.883	0.000	
L28 27.500- 22.500	24.990	0.945	7.29	16.626	A	0.000	16.626	16.626	100.00	4.442	0.000
					B	0.000	16.626	100.00	4.442	0.000	
					C	0.000	16.626	100.00	8.883	0.000	
L29 22.500- 17.500	19.990	0.902	6.95	17.036	A	0.000	17.036	17.036	100.00	4.442	0.000
					B	0.000	17.036	100.00	4.442	0.000	
					C	0.000	17.036	100.00	8.883	0.000	
L30 17.500- 12.500	14.990	0.85	6.55	17.447	A	0.000	17.447	17.447	100.00	4.442	0.000
					B	0.000	17.447	100.00	4.442	0.000	
					C	0.000	17.447	100.00	4.442	0.000	

Section Elevation ft	z ft	K <sub>Z</sub>	q <sub>z</sub> psf	A <sub>G</sub> ft <sup>2</sup>	F a c e	A <sub>F</sub> ft <sup>2</sup>	A <sub>R</sub> ft <sup>2</sup>	A <sub>leg</sub> ft <sup>2</sup>	Leg %	C <sub>A</sub> A <sub>A</sub> In Face ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Out Face ft <sup>2</sup>
L31 12.500- 7.500	9.990	0.85	6.55	17.858	C	0.000	17.447	17.858	100.00	8.883	0.000
					A	0.000	17.858		100.00	4.442	0.000
					B	0.000	17.858		100.00	4.442	0.000
L32 7.500- 2.750	5.117	0.85	6.55	17.344	C	0.000	17.858	17.344	100.00	8.883	0.000
					A	0.000	17.344		100.00	4.220	0.000
					B	0.000	17.344		100.00	4.220	0.000
L33 2.750- 2.500	2.625	0.85	6.55	0.924	C	0.000	17.344	0.924	100.00	8.439	0.000
					A	0.000	0.924		100.00	0.222	0.000
					B	0.000	0.924		100.00	0.222	0.000
L34 2.500- 0.000	1.248	0.85	6.55	9.293	C	0.000	0.924	9.293	100.00	0.444	0.000
					A	0.000	9.293		100.00	1.777	0.000
					B	0.000	9.293		100.00	1.777	0.000
					C	0.000	9.293		100.00	3.553	0.000

## Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service



Comb. No.	Description
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	133.5 - 128.5	Pole	Max Tension	2	0.00	0.00	-0.00
			Max. Compression	26	-8.49	-0.57	1.85
			Max. Mx	8	-2.90	-16.86	0.11
			Max. My	2	-2.89	0.32	17.66
			Max. Vy	8	5.31	-16.86	0.11
			Max. Vx	2	-5.40	0.32	17.66
			Max. Torque	11			1.15
L2	128.5 - 123.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-8.77	-0.58	1.89
			Max. Mx	8	-3.10	-43.72	-0.28
			Max. My	2	-3.09	0.73	44.99
			Max. Vy	8	5.44	-43.72	-0.28
			Max. Vx	2	-5.53	0.73	44.99
			Max. Torque	11			1.15
L3	123.5 - 121.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-8.88	-0.58	1.90
			Max. Mx	8	-3.19	-54.64	-0.44
			Max. My	2	-3.18	0.89	56.10
			Max. Vy	20	-5.48	54.61	1.28
			Max. Vx	2	-5.58	0.89	56.10
			Max. Torque	11			1.15
L4	121.5 - 119	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-9.08	-0.58	1.91
			Max. Mx	8	-3.32	-68.46	-0.64
			Max. My	2	-3.31	1.09	70.15
			Max. Vy	20	-5.59	68.42	1.48
			Max. Vx	2	-5.68	1.09	70.15
			Max. Torque	11			1.15
L5	119 - 114	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-16.65	-0.59	1.93
			Max. Mx	8	-6.77	-115.64	-1.05
			Max. My	2	-6.76	1.50	117.81
			Max. Vy	8	9.55	-115.64	-1.05
			Max. Vx	2	-9.65	1.50	117.81
			Max. Torque	11			1.15
L6	114 - 109	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-20.50	-0.60	1.95
			Max. Mx	8	-8.92	-166.84	-1.45
			Max. My	2	-8.90	1.92	169.49
			Max. Vy	8	11.16	-166.84	-1.45
			Max. Vx	2	-11.25	1.92	169.49
			Max. Torque	11			1.15
L7	109 - 104	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-21.19	-0.61	1.97
			Max. Mx	8	-9.37	-223.86	-1.87
			Max. My	2	-9.36	2.33	227.00
			Max. Vy	20	-11.66	223.83	2.77
			Max. Vx	2	-11.76	2.33	227.00
			Max. Torque	11			1.15
L8	104 - 99	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-30.97	-0.73	2.19
			Max. Mx	8	-13.93	-301.60	-2.21
			Max. My	2	-13.91	2.72	305.32
			Max. Vy	8	16.72	-301.60	-2.21
			Max. Vx	2	-16.83	2.72	305.32
			Max. Torque	11			1.22
L9	99 - 94	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-33.09	-0.74	2.22
			Max. Mx	8	-15.08	-387.57	-2.64

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L10	94 - 89	Pole	Max. My	2	-15.06	3.16	391.84
			Max. Vy	8	18.36	-387.57	-2.64
			Max. Vx	2	-18.47	3.16	391.84
			Max. Torque	11			1.22
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-33.95	-0.74	2.24
			Max. Mx	8	-15.75	-480.57	-3.07
			Max. My	2	-15.73	3.59	485.38
			Max. Vy	20	-18.86	480.44	4.21
			Max. Vx	2	-18.97	3.59	485.38
L11	89 - 85.25	Pole	Max. Torque	11			1.22
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-34.68	-0.75	2.23
			Max. Mx	8	-16.26	-551.96	-3.40
			Max. My	2	-16.25	3.92	557.17
			Max. Vy	20	-19.23	551.83	4.55
			Max. Vx	2	-19.34	3.92	557.17
			Max. Torque	11			1.22
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-34.75	-0.76	2.24
L12	85.25 - 85	Pole	Max. Mx	8	-16.33	-556.77	-3.42
			Max. My	2	-16.31	3.94	562.01
			Max. Vy	8	19.27	-556.77	-3.42
			Max. Vx	2	-19.38	3.94	562.01
			Max. Torque	11			1.22
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-36.25	-0.77	2.20
			Max. Mx	8	-17.37	-654.87	-3.85
			Max. My	2	-17.36	4.38	660.66
			Max. Vy	20	-19.99	654.74	5.02
L13	85 - 80	Pole	Max. Vx	2	-20.10	4.38	660.66
			Max. Torque	11			1.22
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-36.61	-0.78	2.19
			Max. Mx	8	-17.64	-679.94	-3.96
			Max. My	2	-17.63	4.49	685.86
			Max. Vy	20	-20.13	679.81	5.13
			Max. Vx	2	-20.24	4.49	685.86
			Max. Torque	11			1.22
			Max Tension	1	0.00	0.00	0.00
L14	80 - 75	Pole	Max. Compression	26	-36.61	-0.78	2.19
			Max. Mx	8	-17.64	-679.94	-3.96
			Max. My	2	-17.63	4.49	685.86
			Max. Vy	20	-20.13	679.81	5.13
			Max. Vx	2	-20.24	4.49	685.86
			Max. Torque	11			1.22
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-38.57	-0.78	2.17
			Max. Mx	8	-19.06	-776.95	-4.37
			Max. My	2	-19.05	4.90	783.38
L15	75 - 74	Pole	Max. Vy	20	-20.71	776.82	5.55
			Max. Vx	2	-20.82	4.90	783.38
			Max. Torque	11			1.22
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-39.69	-0.78	2.15
			Max. Mx	8	-19.94	-881.69	-4.80
			Max. My	2	-19.93	5.34	888.66
			Max. Vy	20	-21.21	881.57	6.00
			Max. Vx	2	-21.32	5.34	888.66
			Max. Torque	11			1.22
L16	74 - 69	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-39.69	-0.78	2.15
			Max. Mx	8	-19.94	-881.69	-4.80
			Max. My	2	-19.93	5.34	888.66
			Max. Vy	20	-21.21	881.57	6.00
			Max. Vx	2	-21.32	5.34	888.66
			Max. Torque	11			1.22
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-39.88	-0.79	2.15
			Max. Mx	8	-20.07	-897.63	-4.87
L17	69 - 68.25	Pole	Max. My	2	-20.06	5.41	904.68
			Max. Vy	8	21.31	-897.63	-4.87
			Max. Vx	2	-21.42	5.41	904.68
			Max. Torque	11			1.22
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-39.97	-0.79	2.15
			Max. Mx	8	-20.14	-902.96	-4.88
			Max. My	2	-20.13	5.43	910.04
			Max. Vy	8	21.35	-902.96	-4.88
			Max. Vx	2	-21.46	5.43	910.04
L18	68.25 - 68	Pole	Max. Torque	11			1.22
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-39.97	-0.79	2.15
			Max. Mx	8	-20.14	-902.96	-4.88
			Max. My	2	-20.13	5.43	910.04
			Max. Vy	8	21.35	-902.96	-4.88
			Max. Vx	2	-21.46	5.43	910.04
			Max. Torque	11			1.22
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-41.73	-0.80	2.09
L19	68 - 63	Pole	Max. My	2	-15.06	3.16	391.84
			Max. Vy	8	18.36	-387.57	-2.64
			Max. Vx	2	-18.47	3.16	391.84

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L20	63 - 58	Pole	Max. Mx	8	-21.44	-1011.54	-5.32
			Max. My	2	-21.42	5.86	1019.16
			Max. Vy	20	-22.10	1011.42	6.52
			Max. Vx	2	-22.21	5.86	1019.16
			Max. Torque	11			1.22
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-43.58	-0.82	2.16
			Max. Mx	8	-22.79	-1123.98	-5.69
			Max. My	2	-22.78	6.27	1132.14
			Max. Vy	20	-22.90	1123.86	6.98
L21	58 - 53	Pole	Max. Vx	2	-22.99	6.27	1132.14
			Max. Torque	11			1.26
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-45.39	-0.84	2.11
			Max. Mx	8	-24.14	-1240.28	-6.06
			Max. My	2	-24.13	6.65	1248.92
			Max. Vy	20	-23.64	1240.16	7.36
			Max. Vx	2	-23.74	6.65	1248.92
			Max. Torque	11			1.26
			Max Tension	1	0.00	0.00	0.00
L22	53 - 48	Pole	Max. Compression	26	-47.34	-0.85	2.26
			Max. Mx	8	-25.60	-1360.41	-6.28
			Max. My	2	-25.59	6.99	1369.68
			Max. Vy	20	-24.44	1360.30	7.84
			Max. Vx	2	-24.55	6.99	1369.68
			Max. Torque	11			1.32
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-49.19	-0.87	2.20
			Max. Mx	8	-27.01	-1484.38	-6.58
			Max. My	2	-27.00	7.29	1494.21
L23	48 - 43	Pole	Max. Vy	20	-25.17	1484.27	8.14
			Max. Vx	2	-25.28	7.29	1494.21
			Max. Torque	11			1.32
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-49.37	-0.87	2.20
			Max. Mx	8	-27.16	-1496.98	-6.61
			Max. My	2	-27.15	7.32	1506.86
			Max. Vy	8	25.24	-1496.98	-6.61
			Max. Vx	2	-25.35	7.32	1506.86
			Max. Torque	11			1.32
L24	43 - 37.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-52.82	-0.89	2.16
			Max. Mx	8	-29.83	-1625.17	-6.90
			Max. My	2	-29.83	7.62	1635.61
			Max. Vy	8	26.05	-1625.17	-6.90
			Max. Vx	2	-26.17	7.62	1635.61
			Max. Torque	11			1.32
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-54.84	-0.91	2.09
			Max. Mx	8	-31.42	-1757.11	-7.20
L25	37.75 - 37.5	Pole	Max. My	2	-31.41	7.92	1768.10
			Max. Vy	20	-26.75	1757.00	8.78
			Max. Vx	2	-26.86	7.92	1768.10
			Max. Torque	11			1.32
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-56.88	-0.92	2.04
			Max. Mx	8	-33.04	-1892.51	-7.50
			Max. My	2	-33.04	8.22	1904.05
			Max. Vy	20	-27.43	1892.40	9.08
			Max. Vx	14	27.54	-8.35	-1902.54
L26	37.5 - 32.5	Pole	Max. Torque	11			1.32
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-58.95	-0.94	1.99
			Max. Mx	8	-34.70	-2031.24	-7.79
			Max. My	2	-34.69	8.51	2043.33
			Max. Vy	20	-28.09	2031.14	9.37
			Max. Vx	14	28.20	-8.65	-2041.83
			Max. Torque	11			1.32
			Max Tension	1	0.00	0.00	0.00
			L27	32.5 - 27.5	Pole	Max Tension	1
Max. Compression	26	-56.88				-0.92	2.04
Max. Mx	8	-33.04				-1892.51	-7.50
Max. My	2	-33.04				8.22	1904.05
Max. Vy	20	-27.43				1892.40	9.08
Max. Vx	14	27.54				-8.35	-1902.54
Max. Torque	11						1.32
Max Tension	1	0.00				0.00	0.00
Max. Compression	26	-58.95				-0.94	1.99
Max. Mx	8	-34.70				-2031.24	-7.79
L28	27.5 - 22.5	Pole	Max. My	2	-34.69	8.51	2043.33
			Max. Vy	20	-28.09	2031.14	9.37
			Max. Vx	14	28.20	-8.65	-2041.83
			Max. Torque	11			1.32
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-58.95	-0.94	1.99
			Max. Mx	8	-34.70	-2031.24	-7.79
			Max. My	2	-34.69	8.51	2043.33
			Max. Vy	20	-28.09	2031.14	9.37
			Max. Vx	14	28.20	-8.65	-2041.83
L29	22.5 - 17.5	Pole	Max. Torque	11			1.32
			Max Tension	1	0.00	0.00	0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L30	17.5 - 12.5	Pole	Max. Compression	26	-61.03	-0.96	1.94
			Max. Mx	8	-36.38	-2173.19	-8.08
			Max. My	2	-36.38	8.80	2185.82
			Max. Vy	20	-28.72	2173.08	9.67
			Max. Vx	14	28.83	-8.94	-2184.32
			Max. Torque	11			1.32
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-63.13	-0.98	1.89
			Max. Mx	8	-38.09	-2318.17	-8.37
			Max. My	2	-38.09	9.09	2331.35
L31	12.5 - 7.5	Pole	Max. Vy	20	-29.30	2318.07	9.96
			Max. Vx	14	29.41	-9.23	-2329.85
			Max. Torque	11			1.32
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-65.24	-0.99	1.84
			Max. Mx	8	-39.83	-2466.09	-8.66
			Max. My	2	-39.83	9.38	2479.81
			Max. Vy	20	-29.90	2465.99	10.24
			Max. Vx	14	30.00	-9.52	-2478.32
			Max. Torque	11			1.32
L32	7.5 - 2.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-67.24	-1.01	1.79
			Max. Mx	8	-41.51	-2609.36	-8.93
			Max. My	2	-41.51	9.65	2623.59
			Max. Vy	20	-30.46	2609.26	10.51
			Max. Vx	14	30.57	-9.79	-2622.10
			Max. Torque	11			1.32
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-67.33	-1.01	1.79
			Max. Mx	8	-41.60	-2616.98	-8.95
L33	2.75 - 2.5	Pole	Max. My	2	-41.60	9.67	2631.23
			Max. Vy	8	30.48	-2616.98	-8.95
			Max. Vx	2	-30.59	9.67	2631.23
			Max. Torque	11			1.32
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-68.26	-1.01	1.77
			Max. Mx	8	-42.40	-2693.42	-9.09
			Max. My	2	-42.40	9.81	2707.94
			Max. Vy	20	-30.70	2693.32	10.67
			Max. Vx	14	30.81	-9.95	-2706.45
L34	2.5 - 0	Pole	Max. Torque	11			1.32
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-68.26	-1.01	1.77
			Max. Mx	8	-42.40	-2693.42	-9.09
			Max. My	2	-42.40	9.81	2707.94
			Max. Vy	20	-30.70	2693.32	10.67
			Max. Vx	14	30.81	-9.95	-2706.45
			Max. Torque	11			1.32

### Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	26	68.26	0.00	-0.00
	Max. H <sub>x</sub>	20	42.42	30.68	0.06
	Max. H <sub>z</sub>	3	31.81	0.06	30.79
	Max. M <sub>x</sub>	2	2707.94	0.06	30.79
	Max. M <sub>z</sub>	8	2693.42	-30.68	-0.06
	Max. Torsion	11	1.32	-24.83	-14.42
	Min. Vert	3	31.81	0.06	30.79
	Min. H <sub>x</sub>	9	31.81	-30.68	-0.06
	Min. H <sub>z</sub>	15	31.81	-0.06	-30.79
	Min. M <sub>x</sub>	14	-2706.45	-0.06	-30.79
	Min. M <sub>z</sub>	20	-2693.32	30.68	0.06
	Min. Torsion	23	-1.31	24.83	14.42

### Tower Mast Reaction Summary

Load Combination	Vertical K	Shear <sub>x</sub> K	Shear <sub>z</sub> K	Overturing Moment, M <sub>x</sub> kip-ft	Overturing Moment, M <sub>z</sub> kip-ft	Torque kip-ft
Dead Only	35.35	-0.00	0.00	-0.62	-0.06	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	42.42	-0.06	-30.79	-2707.94	9.81	0.58
0.9 Dead+1.0 Wind 0 deg - No Ice	31.81	-0.06	-30.79	-2681.55	9.70	0.58
1.2 Dead+1.0 Wind 30 deg - No Ice	42.42	14.27	-24.87	-2278.13	-1302.21	-0.09
0.9 Dead+1.0 Wind 30 deg - No Ice	31.81	14.27	-24.87	-2255.54	-1289.43	-0.09
1.2 Dead+1.0 Wind 60 deg - No Ice	42.42	26.54	-15.34	-1345.94	-2327.73	-0.74
0.9 Dead+1.0 Wind 60 deg - No Ice	31.81	26.54	-15.34	-1332.72	-2305.19	-0.74
1.2 Dead+1.0 Wind 90 deg - No Ice	42.42	30.68	0.06	9.09	-2693.42	-1.19
0.9 Dead+1.0 Wind 90 deg - No Ice	31.81	30.68	0.06	9.17	-2667.35	-1.20
1.2 Dead+1.0 Wind 120 deg - No Ice	42.42	24.83	14.42	1325.42	-2275.17	-1.32
0.9 Dead+1.0 Wind 120 deg - No Ice	31.81	24.83	14.42	1312.56	-2252.79	-1.32
1.2 Dead+1.0 Wind 150 deg - No Ice	42.42	15.39	26.69	2348.76	-1355.31	-1.09
0.9 Dead+1.0 Wind 150 deg - No Ice	31.81	15.39	26.69	2326.18	-1342.14	-1.09
1.2 Dead+1.0 Wind 180 deg - No Ice	42.42	0.06	30.79	2706.45	-9.95	-0.57
0.9 Dead+1.0 Wind 180 deg - No Ice	31.81	0.06	30.79	2680.45	-9.80	-0.57
1.2 Dead+1.0 Wind 210 deg - No Ice	42.42	-14.27	24.87	2276.54	1302.07	0.10
0.9 Dead+1.0 Wind 210 deg - No Ice	31.81	-14.27	24.87	2254.36	1289.32	0.10
1.2 Dead+1.0 Wind 240 deg - No Ice	42.42	-26.54	15.34	1344.35	2327.58	0.74
0.9 Dead+1.0 Wind 240 deg - No Ice	31.81	-26.54	15.34	1331.55	2305.08	0.74
1.2 Dead+1.0 Wind 270 deg - No Ice	42.42	-30.68	-0.06	-10.67	2693.32	1.18
0.9 Dead+1.0 Wind 270 deg - No Ice	31.81	-30.68	-0.06	-10.33	2667.24	1.18
1.2 Dead+1.0 Wind 300 deg - No Ice	42.42	-24.83	-14.42	-1327.00	2275.03	1.31
0.9 Dead+1.0 Wind 300 deg - No Ice	31.81	-24.83	-14.42	-1313.72	2252.69	1.31
1.2 Dead+1.0 Wind 330 deg - No Ice	42.42	-15.39	-26.69	-2350.34	1355.18	1.09
0.9 Dead+1.0 Wind 330 deg - No Ice	31.81	-15.39	-26.69	-2327.34	1342.04	1.09
1.2 Dead+1.0 Ice+1.0 Temp	68.26	-0.00	0.00	-1.77	-1.01	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	68.26	-0.00	-6.47	-626.95	0.34	0.10
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	68.26	3.20	-5.56	-540.67	-310.03	-0.07
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	68.26	5.58	-3.23	-313.23	-539.45	-0.23
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	68.26	6.45	0.00	-0.56	-623.57	-0.32
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	68.26	5.55	3.21	310.65	-539.07	-0.33
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	68.26	3.23	5.60	539.92	-313.59	-0.25
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	68.26	0.00	6.47	622.92	-2.56	-0.10
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	68.26	-3.20	5.56	536.64	307.81	0.07
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	68.26	-5.58	3.23	309.20	537.23	0.23

Load Combination	Vertical K	Shear <sub>x</sub> K	Shear <sub>z</sub> K	Overturing Moment, M <sub>x</sub> kip-ft	Overturing Moment, M <sub>z</sub> kip-ft	Torque kip-ft
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	68.26	-6.45	-0.00	-3.46	621.35	0.32
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	68.26	-5.55	-3.21	-314.68	536.85	0.33
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	68.26	-3.23	-5.60	-543.95	311.37	0.25
Dead+Wind 0 deg - Service	35.35	-0.01	-6.70	-587.45	2.07	0.13
Dead+Wind 30 deg - Service	35.35	3.11	-5.41	-494.30	-282.33	-0.02
Dead+Wind 60 deg - Service	35.35	5.78	-3.34	-292.23	-504.60	-0.16
Dead+Wind 90 deg - Service	35.35	6.68	0.01	1.47	-583.84	-0.26
Dead+Wind 120 deg - Service	35.35	5.41	3.14	286.80	-493.22	-0.29
Dead+Wind 150 deg - Service	35.35	3.35	5.81	508.61	-293.81	-0.24
Dead+Wind 180 deg - Service	35.35	0.01	6.70	586.12	-2.19	-0.13
Dead+Wind 210 deg - Service	35.35	-3.11	5.41	492.97	282.21	0.02
Dead+Wind 240 deg - Service	35.35	-5.78	3.34	290.91	504.48	0.16
Dead+Wind 270 deg - Service	35.35	-6.68	-0.01	-2.79	583.72	0.26
Dead+Wind 300 deg - Service	35.35	-5.41	-3.14	-288.12	493.10	0.29
Dead+Wind 330 deg - Service	35.35	-3.35	-5.81	-509.94	293.69	0.24

## 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	-35.35	0.00	0.00	35.35	-0.00	0.000%
2	-0.06	-42.42	-30.79	0.06	42.42	30.79	0.003%
3	-0.06	-31.81	-30.79	0.06	31.81	30.79	0.003%
4	14.27	-42.42	-24.87	-14.27	42.42	24.87	0.000%
5	14.27	-31.81	-24.87	-14.27	31.81	24.87	0.000%
6	26.54	-42.42	-15.34	-26.54	42.42	15.34	0.000%
7	26.54	-31.81	-15.34	-26.54	31.81	15.34	0.000%
8	30.68	-42.42	0.06	-30.68	42.42	-0.06	0.002%
9	30.68	-31.81	0.06	-30.68	31.81	-0.06	0.001%
10	24.83	-42.42	14.42	-24.83	42.42	-14.42	0.000%
11	24.83	-31.81	14.42	-24.83	31.81	-14.42	0.000%
12	15.39	-42.42	26.69	-15.39	42.42	-26.69	0.000%
13	15.39	-31.81	26.69	-15.39	31.81	-26.69	0.000%
14	0.06	-42.42	30.79	-0.06	42.42	-30.79	0.002%
15	0.06	-31.81	30.79	-0.06	31.81	-30.79	0.001%
16	-14.27	-42.42	24.87	14.27	42.42	-24.87	0.000%
17	-14.27	-31.81	24.87	14.27	31.81	-24.87	0.000%
18	-26.54	-42.42	15.34	26.54	42.42	-15.34	0.000%
19	-26.54	-31.81	15.34	26.54	31.81	-15.34	0.000%
20	-30.68	-42.42	-0.06	30.68	42.42	0.06	0.001%
21	-30.68	-31.81	-0.06	30.68	31.81	0.06	0.001%
22	-24.83	-42.42	-14.42	24.83	42.42	14.42	0.000%
23	-24.83	-31.81	-14.42	24.83	31.81	14.42	0.000%
24	-15.39	-42.42	-26.69	15.39	42.42	26.69	0.000%
25	-15.39	-31.81	-26.69	15.39	31.81	26.69	0.000%
26	0.00	-68.26	0.00	0.00	68.26	-0.00	0.001%
27	-0.00	-68.26	-6.47	0.00	68.26	6.47	0.000%
28	3.20	-68.26	-5.56	-3.20	68.26	5.56	0.000%
29	5.58	-68.26	-3.23	-5.58	68.26	3.23	0.000%
30	6.45	-68.26	0.00	-6.45	68.26	-0.00	0.000%
31	5.55	-68.26	3.21	-5.55	68.26	-3.21	0.000%
32	3.23	-68.26	5.60	-3.23	68.26	-5.60	0.000%
33	0.00	-68.26	6.47	-0.00	68.26	-6.47	0.000%
34	-3.20	-68.26	5.56	3.20	68.26	-5.56	0.000%
35	-5.58	-68.26	3.23	5.58	68.26	-3.23	0.000%
36	-6.45	-68.26	-0.00	6.45	68.26	0.00	0.000%

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
37	-5.55	-68.26	-3.21	5.55	68.26	3.21	0.000%
38	-3.23	-68.26	-5.60	3.23	68.26	5.60	0.000%
39	-0.01	-35.35	-6.70	0.01	35.35	6.70	0.002%
40	3.11	-35.35	-5.41	-3.11	35.35	5.41	0.001%
41	5.78	-35.35	-3.34	-5.78	35.35	3.34	0.001%
42	6.68	-35.35	0.01	-6.68	35.35	-0.01	0.002%
43	5.41	-35.35	3.14	-5.41	35.35	-3.14	0.001%
44	3.35	-35.35	5.81	-3.35	35.35	-5.81	0.001%
45	0.01	-35.35	6.70	-0.01	35.35	-6.70	0.002%
46	-3.11	-35.35	5.41	3.11	35.35	-5.41	0.001%
47	-5.78	-35.35	3.34	5.78	35.35	-3.34	0.001%
48	-6.68	-35.35	-0.01	6.68	35.35	0.01	0.002%
49	-5.41	-35.35	-3.14	5.41	35.35	3.14	0.001%
50	-3.35	-35.35	-5.81	3.35	35.35	5.81	0.001%

**Non-Linear Convergence Results**

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	6	0.00000001	0.00000001
2	Yes	16	0.00004289	0.00011076
3	Yes	16	0.00002882	0.00008303
4	Yes	21	0.00000001	0.00014061
5	Yes	21	0.00000001	0.00010165
6	Yes	21	0.00000001	0.00014470
7	Yes	21	0.00000001	0.00010421
8	Yes	17	0.00000001	0.00011213
9	Yes	17	0.00000001	0.00008762
10	Yes	21	0.00000001	0.00014049
11	Yes	21	0.00000001	0.00010147
12	Yes	21	0.00000001	0.00014983
13	Yes	21	0.00000001	0.00010786
14	Yes	17	0.00000001	0.00010858
15	Yes	17	0.00000001	0.00008346
16	Yes	21	0.00000001	0.00014054
17	Yes	21	0.00000001	0.00010168
18	Yes	21	0.00000001	0.00014051
19	Yes	21	0.00000001	0.00010114
20	Yes	18	0.00000001	0.00008185
21	Yes	17	0.00000001	0.00013368
22	Yes	21	0.00000001	0.00014791
23	Yes	21	0.00000001	0.00010699
24	Yes	21	0.00000001	0.00014393
25	Yes	21	0.00000001	0.00010339
26	Yes	9	0.00000001	0.00010381
27	Yes	19	0.00000001	0.00012629
28	Yes	19	0.00000001	0.00014349
29	Yes	19	0.00000001	0.00014369
30	Yes	19	0.00000001	0.00012493
31	Yes	19	0.00000001	0.00014179
32	Yes	19	0.00000001	0.00014267
33	Yes	19	0.00000001	0.00012366
34	Yes	19	0.00000001	0.00014005
35	Yes	19	0.00000001	0.00013991
36	Yes	19	0.00000001	0.00012399
37	Yes	19	0.00000001	0.00014381
38	Yes	19	0.00000001	0.00014394
39	Yes	15	0.00000001	0.00004005
40	Yes	16	0.00000001	0.00008929
41	Yes	16	0.00000001	0.00009658
42	Yes	15	0.00000001	0.00004840
43	Yes	16	0.00000001	0.00008465
44	Yes	16	0.00000001	0.00010194
45	Yes	15	0.00000001	0.00004122
46	Yes	16	0.00000001	0.00008903
47	Yes	16	0.00000001	0.00008692
48	Yes	15	0.00000001	0.00005055
49	Yes	16	0.00000001	0.00010129
50	Yes	16	0.00000001	0.00008867

### Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	133.5 - 128.5	17.6665	50	1.3580	0.0135
L2	128.5 - 123.5	16.2493	50	1.3363	0.0109
L3	123.5 - 121.5	14.9025	50	1.2201	0.0058
L4	121.5 - 119	14.4065	50	1.1458	0.0037
L5	119 - 114	13.8171	50	1.1123	0.0030
L6	114 - 109	12.6655	50	1.0859	0.0026
L7	109 - 104	11.5461	50	1.0509	0.0022
L8	104 - 99	10.4675	50	1.0080	0.0019
L9	99 - 94	9.4375	50	0.9576	0.0016
L10	94 - 89	8.4654	50	0.8978	0.0014
L11	89 - 85.25	7.5599	50	0.8304	0.0011
L12	85.25 - 85	6.9291	50	0.7755	0.0010



Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L13	85 - 80	6.8886	50	0.7736	0.0010
L14	80 - 75	6.0993	50	0.7335	0.0009
L15	78.75 - 74	5.9086	50	0.7231	0.0008
L16	74 - 69	5.2026	50	0.6890	0.0008
L17	69 - 68.25	4.5192	50	0.6159	0.0006
L18	68.25 - 68	4.4233	50	0.6048	0.0006
L19	68 - 63	4.3917	50	0.6028	0.0006
L20	63 - 58	3.7824	50	0.5608	0.0005
L21	58 - 53	3.2180	50	0.5171	0.0005
L22	53 - 48	2.7001	50	0.4718	0.0004
L23	48 - 43	2.2302	50	0.4256	0.0004
L24	43 - 37.75	1.8091	50	0.3786	0.0003
L25	42.5 - 37.5	1.7697	50	0.3739	0.0003
L26	37.5 - 32.5	1.3900	50	0.3498	0.0003
L27	32.5 - 27.5	1.0476	50	0.3041	0.0002
L28	27.5 - 22.5	0.7531	50	0.2585	0.0002
L29	22.5 - 17.5	0.5068	50	0.2120	0.0002
L30	17.5 - 12.5	0.3090	50	0.1658	0.0001
L31	12.5 - 7.5	0.1596	50	0.1194	0.0001
L32	7.5 - 2.75	0.0590	50	0.0729	0.0000
L33	2.75 - 2.5	0.0083	50	0.0290	0.0000
L34	2.5 - 0	0.0069	50	0.0263	0.0000

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

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
131.000	P65-15-XLH-RR w/ Mount Pipe	50	16.9542	1.3533	0.0126	4249
119.000	APXVSP18-C-A20 w/ Mount Pipe	50	13.8171	1.1123	0.0030	4829
117.000	TME-PCS 1900MHz 4x45W-65MHz	50	13.3535	1.1016	0.0028	8783
111.000	Platform Mount [LP 403-1]	50	11.9893	1.0662	0.0024	7911
101.000	ERICSSON AIR 21 B2A B4P w/ Mount Pipe	50	9.8431	0.9789	0.0018	5549
95.000	APXV18-206517S-ACU	50	8.6548	0.9101	0.0014	4620
60.000	58532A	50	3.4382	0.5346	0.0005	6529
50.000	KS24019-L112A	50	2.4124	0.4442	0.0004	6204

### Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	133.5 - 128.5	81.2064	24	6.2069	0.0610
L2	128.5 - 123.5	74.7474	24	6.1169	0.0492
L3	123.5 - 121.5	68.5911	24	5.6022	0.0258
L4	121.5 - 119	66.3176	24	5.2693	0.0165
L5	119 - 114	63.6125	24	5.1183	0.0131
L6	114 - 109	58.3235	24	4.9988	0.0113
L7	109 - 104	53.1800	24	4.8394	0.0098
L8	104 - 99	48.2217	24	4.6434	0.0084
L9	99 - 94	43.4848	24	4.4124	0.0072
L10	94 - 89	39.0116	24	4.1383	0.0061
L11	89 - 85.25	34.8433	24	3.8282	0.0050
L12	85.25 - 85	31.9383	24	3.5756	0.0043
L13	85 - 80	31.7515	24	3.5669	0.0043
L14	80 - 75	28.1158	24	3.3824	0.0039
L15	78.75 - 74	27.2374	24	3.3346	0.0038
L16	74 - 69	23.9844	24	3.1772	0.0035
L17	69 - 68.25	20.8352	24	2.8405	0.0029
L18	68.25 - 68	20.3933	24	2.7895	0.0028
L19	68 - 63	20.2476	24	2.7800	0.0028
L20	63 - 58	17.4392	24	2.5863	0.0025

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L21	58 - 53	14.8375	24	2.3848	0.0022
L22	53 - 48	12.4502	24	2.1761	0.0019
L23	48 - 43	10.2836	24	1.9631	0.0017
L24	43 - 37.75	8.3418	24	1.7462	0.0014
L25	42.5 - 37.5	8.1601	24	1.7245	0.0014
L26	37.5 - 32.5	6.4097	24	1.6134	0.0013
L27	32.5 - 27.5	4.8309	24	1.4025	0.0011
L28	27.5 - 22.5	3.4727	24	1.1919	0.0009
L29	22.5 - 17.5	2.3368	24	0.9778	0.0007
L30	17.5 - 12.5	1.4246	24	0.7647	0.0005
L31	12.5 - 7.5	0.7360	24	0.5506	0.0004
L32	7.5 - 2.75	0.2719	24	0.3359	0.0002
L33	2.75 - 2.5	0.0385	24	0.1335	0.0001
L34	2.5 - 0	0.0318	24	0.1214	0.0001

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

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
131.000	P65-15-XLH-RR w/ Mount Pipe	24	77.9614	6.1892	0.0592	1008
119.000	APXVSPP18-C-A20 w/ Mount Pipe	24	63.6125	5.1183	0.0142	1093
117.000	TME-PCS 1900MHz 4x45W-65MHz	24	61.4835	5.0701	0.0134	1977
111.000	Platform Mount [LP 403-1]	24	55.2170	4.9090	0.0113	1765
101.000	ERICSSON AIR 21 B2A B4P w/ Mount Pipe	24	45.3503	4.5103	0.0083	1228
95.000	APXV18-206517S-ACU	24	39.8831	4.1945	0.0067	1018
60.000	58532A	24	15.8528	2.4657	0.0024	1422
50.000	KS24019-L112A	24	11.1235	2.0485	0.0018	1349

**Compression Checks**

**Pole Design Data**

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	KI/r	A in <sup>2</sup>	P <sub>u</sub> K
L1	133.5 - 128.5 (1)	TP10.75x10.75x0.188	5.000	0.000	0.0	6.2381	-2.88
L2	128.5 - 123.5 (2)	TP10.75x10.75x0.188	5.000	0.000	0.0	6.2381	-3.08
L3	123.5 - 121.5 (3)	TP10.75x10.75x0.188	2.000	0.000	0.0	6.2381	-3.17
L4	121.5 - 119 (4)	TP22x10.75x0.188	2.500	0.000	0.0	6.2381	-3.19
L5	119 - 114 (5)	TP22.95x22x0.25	5.000	0.000	0.0	18.2735	-6.75
L6	114 - 109 (6)	TP23.9x22.95x0.25	5.000	0.000	0.0	19.0382	-8.89
L7	109 - 104 (7)	TP24.85x23.9x0.25	5.000	0.000	0.0	19.8030	-9.35
L8	104 - 99 (8)	TP25.8x24.85x0.25	5.000	0.000	0.0	20.5678	-13.91
L9	99 - 94 (9)	TP26.75x25.8x0.25	5.000	0.000	0.0	21.3325	-15.06
L10	94 - 89 (10)	TP27.7x26.75x0.25	5.000	0.000	0.0	22.0972	-15.72
L11	89 - 85.25 (11)	TP28.4125x27.7x0.25	3.750	0.000	0.0	22.6708	-16.24
L12	85.25 - 85 (12)	TP28.46x28.4125x0.5125	0.250	0.000	0.0	46.1204	-16.31
L13	85 - 80 (13)	TP29.41x28.46x0.5	5.000	0.000	0.0	46.5451	-17.35

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K
L14	80 - 75 (14)	TP30.36x29.41x0.5	5.000	0.000	0.0	46.927	-17.62
L15	75 - 74 (15)	TP30.0503x29.1475x0.31	4.750	0.000	0.0	29.923	-19.05
L16	74 - 69 (16)	TP31.0006x30.0503x0.31	5.000	0.000	0.0	30.879	-19.92
L17	69 - 68.25 (17)	TP31.1431x31.0006x0.31	0.750	0.000	0.0	31.023	-20.06
L18	68.25 - 68 (18)	TP31.1907x31.1431x0.57	0.250	0.000	0.0	56.684	-20.13
L19	68 - 63 (19)	TP32.141x31.1907x0.575	5.000	0.000	0.0	58.444	-21.42
L20	63 - 58 (20)	TP33.0913x32.141x0.562	5.000	0.000	0.0	58.917	-22.77
L21	58 - 53 (21)	TP34.0416x33.0913x0.55	5.000	0.000	0.0	59.313	-24.13
L22	53 - 48 (22)	TP34.9919x34.0416x0.54	5.000	0.000	0.0	60.314	-25.59
L23	48 - 43 (23)	TP35.9422x34.9919x0.53	5.000	0.000	0.0	61.276	-27.00
L24	43 - 37.75 (24)	TP36.94x35.9422x0.5375	5.250	0.000	0.0	61.441	-27.15
L25	37.75 - 37.5 (25)	TP36.3625x35.4122x0.6	5.000	0.000	0.0	69.093	-29.82
L26	37.5 - 32.5 (26)	TP37.3129x36.3625x0.58	5.000	0.000	0.0	69.475	-31.41
L27	32.5 - 27.5 (27)	TP38.2632x37.3129x0.58	5.000	0.000	0.0	71.273	-33.04
L28	27.5 - 22.5 (28)	TP39.2135x38.2632x0.57	5.000	0.000	0.0	71.539	-34.69
L29	22.5 - 17.5 (29)	TP40.1639x39.2135x0.57	5.000	0.000	0.0	73.298	-36.38
L30	17.5 - 12.5 (30)	TP41.1142x40.1639x0.56	5.000	0.000	0.0	74.253	-38.09
L31	12.5 - 7.5 (31)	TP42.0645x41.1142x0.56	5.000	0.000	0.0	75.170	-39.83
L32	7.5 - 2.75 (32)	TP42.9673x42.0645x0.56	4.750	0.000	0.0	76.805	-41.51
L33	2.75 - 2.5 (33)	TP43.0148x42.9673x0.48	0.250	0.000	0.0	66.757	-41.60
L34	2.5 - 0 (34)	TP43.49x43.0148x0.4875	2.500	0.000	0.0	67.503	-42.40

**Pole Bending Design Data**

Section No.	Elevation ft	Size	M <sub>ux</sub> kip-ft	M <sub>uy</sub> kip-ft
L1	133.5 - 128.5 (1)	TP10.75x10.75x0.188	17.75	0.00
L2	128.5 - 123.5 (2)	TP10.75x10.75x0.188	45.32	0.00
L3	123.5 - 121.5 (3)	TP10.75x10.75x0.188	56.52	0.00
L4	121.5 - 119 (4)	TP22x10.75x0.188	56.52	0.00
L5	119 - 114 (5)	TP22.95x22x0.25	118.60	0.00
L6	114 - 109 (6)	TP23.9x22.95x0.25	170.52	0.00
L7	109 - 104 (7)	TP24.85x23.9x0.25	228.27	0.00
L8	104 - 99 (8)	TP25.8x24.85x0.25	306.80	0.00
L9	99 - 94 (9)	TP26.75x25.8x0.25	393.57	0.00
L10	94 - 89 (10)	TP27.7x26.75x0.25	487.37	0.00
L11	89 - 85.25 (11)	TP28.4125x27.7x0.25	559.35	0.00
L12	85.25 - 85 (12)	TP28.46x28.4125x0.5125	564.20	0.00
L13	85 - 80 (13)	TP29.41x28.46x0.5	663.09	0.00
L14	80 - 75 (14)	TP30.36x29.41x0.5	688.36	0.00

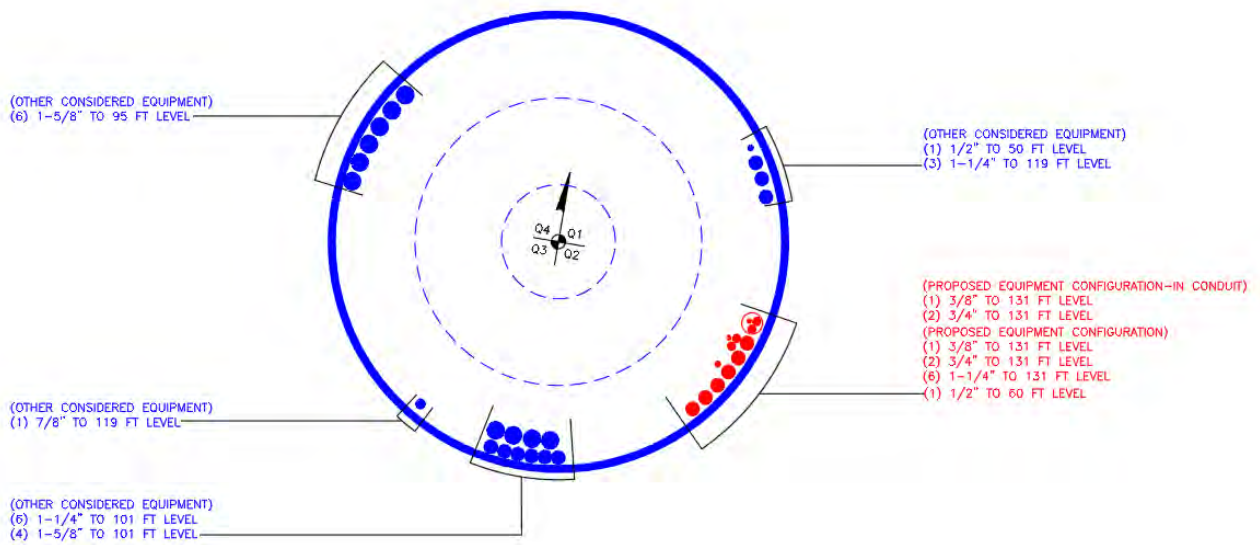
Section No.	Elevation ft	Size	$M_{ux}$ kip-ft	$M_{uy}$ kip-ft
L15	75 - 74 (15)	TP30.0503x29.1475x0.31 25	786.12	0.00
L16	74 - 69 (16)	TP31.0006x30.0503x0.31 25	891.65	0.00
L17	69 - 68.25 (17)	TP31.1431x31.0006x0.31 25	907.71	0.00
L18	68.25 - 68 (18)	TP31.1907x31.1431x0.57 5	913.08	0.00
L19	68 - 63 (19)	TP32.141x31.1907x0.575	1022.44	0.00
L20	63 - 58 (20)	TP33.0913x32.141x0.562 5	1135.66	0.00
L21	58 - 53 (21)	TP34.0416x33.0913x0.55	1252.65	0.00
L22	53 - 48 (22)	TP34.9919x34.0416x0.54 38	1373.58	0.00
L23	48 - 43 (23)	TP35.9422x34.9919x0.53 75	1498.23	0.00
L24	43 - 37.75 (24)	TP36.94x35.9422x0.5375	1510.90	0.00
L25	37.75 - 37.5 (25)	TP36.3625x35.4122x0.6	1639.78	0.00
L26	37.5 - 32.5 (26)	TP37.3129x36.3625x0.58 75	1772.40	0.00
L27	32.5 - 27.5 (27)	TP38.2632x37.3129x0.58 75	1908.47	0.00
L28	27.5 - 22.5 (28)	TP39.2135x38.2632x0.57 5	2047.88	0.00
L29	22.5 - 17.5 (29)	TP40.1639x39.2135x0.57 5	2190.50	0.00
L30	17.5 - 12.5 (30)	TP41.1142x40.1639x0.56 88	2336.15	0.00
L31	12.5 - 7.5 (31)	TP42.0645x41.1142x0.56 25	2484.73	0.00
L32	7.5 - 2.75 (32)	TP42.9673x42.0645x0.56 25	2628.63	0.00
L33	2.75 - 2.5 (33)	TP43.0148x42.9673x0.48 75	2636.28	0.00
L34	2.5 - 0 (34)	TP43.49x43.0148x0.4875	2713.04	0.00

### Pole Shear Design Data

Section No.	Elevation ft	Size	Actual $V_u$ K	Actual $T_u$ kip-ft
L1	133.5 - 128.5 (1)	TP10.75x10.75x0.188	5.45	0.99
L2	128.5 - 123.5 (2)	TP10.75x10.75x0.188	5.58	0.99
L3	123.5 - 121.5 (3)	TP10.75x10.75x0.188	5.63	0.99
L4	121.5 - 119 (4)	TP22x10.75x0.188	5.67	0.99
L5	119 - 114 (5)	TP22.95x22x0.25	9.70	0.99
L6	114 - 109 (6)	TP23.9x22.95x0.25	11.30	0.99
L7	109 - 104 (7)	TP24.85x23.9x0.25	11.81	0.99
L8	104 - 99 (8)	TP25.8x24.85x0.25	16.88	1.05
L9	99 - 94 (9)	TP26.75x25.8x0.25	18.52	1.05
L10	94 - 89 (10)	TP27.7x26.75x0.25	19.02	1.05
L11	89 - 85.25 (11)	TP28.4125x27.7x0.25	19.39	1.05
L12	85.25 - 85 (12)	TP28.46x28.4125x0.5125	19.45	1.05
L13	85 - 80 (13)	TP29.41x28.46x0.5	20.15	1.05
L14	80 - 75 (14)	TP30.36x29.41x0.5	20.29	1.05
L15	75 - 74 (15)	TP30.0503x29.1475x0.31 25	20.87	1.05
L16	74 - 69 (16)	TP31.0006x30.0503x0.31 25	21.37	1.05

Section No.	Elevation ft	Size	Actual $V_u$ K	Actual $T_u$ kip-ft
L17	69 - 68.25 (17)	TP31.1431x31.0006x0.3125	21.47	1.05
L18	68.25 - 68 (18)	TP31.1907x31.1431x0.575	21.52	1.05
L19	68 - 63 (19)	TP32.141x31.1907x0.575	22.26	1.05
L20	63 - 58 (20)	TP33.0913x32.141x0.5625	23.04	1.07
L21	58 - 53 (21)	TP34.0416x33.0913x0.55	23.78	1.07
L22	53 - 48 (22)	TP34.9919x34.0416x0.5438	24.58	1.09
L23	48 - 43 (23)	TP35.9422x34.9919x0.5375	25.31	1.09
L24	43 - 37.75 (24)	TP36.94x35.9422x0.5375	25.38	1.09
L25	37.75 - 37.5 (25)	TP36.3625x35.4122x0.6	26.19	1.09
L26	37.5 - 32.5 (26)	TP37.3129x36.3625x0.5875	26.89	1.09
L27	32.5 - 27.5 (27)	TP38.2632x37.3129x0.5875	27.57	1.09
L28	27.5 - 22.5 (28)	TP39.2135x38.2632x0.575	28.22	1.09
L29	22.5 - 17.5 (29)	TP40.1639x39.2135x0.575	28.85	1.09
L30	17.5 - 12.5 (30)	TP41.1142x40.1639x0.5688	29.44	1.09
L31	12.5 - 7.5 (31)	TP42.0645x41.1142x0.5625	30.03	1.09
L32	7.5 - 2.75 (32)	TP42.9673x42.0645x0.5625	30.59	1.09
L33	2.75 - 2.5 (33)	TP43.0148x42.9673x0.4875	30.61	1.09
L34	2.5 - 0 (34)	TP43.49x43.0148x0.4875	30.83	1.09

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



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



Site BU: 876340  
Work Order: 1848834



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**Pole Geometry**

	Pole Height Above Base (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Bend Radius (in)	Pole Material
1	133.5	12	0	0	10.75	10.75	0.188		A572-65
2	121.5	2.5	0	0	10.75	22	0.188		A572-65
3	119	44	3.75	12	22.00	30.36	0.25	Auto	A572-65
4	78.75	41	4.75	12	29.15	36.94	0.3125	Auto	A572-65
5	42.5	42.5	0	12	35.41	43.49	0.375	Auto	A572-65

**Reinforcement Configuration**

	Bottom Effective Elevation (ft)	Top Effective Elevation (ft)	Type	Model	Number												
						1	2	3	4	5	6	7	8	9	10	11	12
1	2.75	68.25	channel	MP3-05 (1.1875")	4			o			o			o			o
2	78.75	85.25	plate	MP3-08.5 (1.1875)_1	4			o			o			o			o
3	0	2.75	plate	FP 1.25 x 2.75_1	4			o			o			o			o
4																	
5																	
6																	
7																	
8																	
9																	
10																	

**Reinforcement Details**

	B (in)	H (in)	Gross Area (in <sup>2</sup> )	Pole Face to Centroid (in)	Bottom Termination Length (in)	Top Termination Length (in)	L <sub>u</sub> (in)	Net Area (in <sup>2</sup> )	Bolt Hole Size (in)	Reinforcement Material
1	5.33	2.09	5.65	0.79	29.000	29.000	18.000	5.025	1.1875	A572-65
2	3.82714	1.31853	4.9869805	0.957	n/a	n/a	18.000	4.008	1.1875	A572-65
3	1.25	2.75	3.4375	1.375	n/a	n/a	0.000	3.438	0.0000	A572-65

# TNX Geometry Input

Increment (ft):  [Export to TNX](#)

	Section Height (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Tapered Pole Grade	Weight Multiplier
1	133.5 - 128.5	5		0	10.750	10.750	0.188	A572-65	1.000
2	128.5 - 123.5	5		0	10.750	10.750	0.188	A572-65	1.000
3	123.5 - 121.5	2	0	0	10.750	10.750	0.188	A572-65	1.000
4	121.5 - 119	2.5	0	0	10.750	22.000	0.188	A572-65	1.000
5	119 - 114	5		12	22.000	22.950	0.25	A572-65	1.000
6	114 - 109	5		12	22.950	23.900	0.25	A572-65	1.000
7	109 - 104	5		12	23.900	24.850	0.25	A572-65	1.000
8	104 - 99	5		12	24.850	25.800	0.25	A572-65	1.000
9	99 - 94	5		12	25.800	26.750	0.25	A572-65	1.000
10	94 - 89	5		12	26.750	27.700	0.25	A572-65	1.000
11	89 - 85.25	3.75		12	27.700	28.413	0.25	A572-65	1.000
12	85.25 - 85	0.25		12	28.413	28.460	0.5125	A572-65	0.926
13	85 - 80	5		12	28.460	29.410	0.5	A572-65	0.934
14	80 - 78.75	5	3.75	12	29.410	30.360	0.5	A572-65	0.930
15	78.75 - 74	4.75		12	29.148	30.050	0.3125	A572-65	1.000
16	74 - 69	5		12	30.050	31.001	0.3125	A572-65	1.000
17	69 - 68.25	0.75		12	31.001	31.143	0.3125	A572-65	1.000
18	68.25 - 68	0.25		12	31.143	31.191	0.575	A572-65	0.947
19	68 - 63	5		12	31.191	32.141	0.575	A572-65	0.935
20	63 - 58	5		12	32.141	33.091	0.5625	A572-65	0.944
21	58 - 53	5		12	33.091	34.042	0.55	A572-65	0.954
22	53 - 48	5		12	34.042	34.992	0.54375	A572-65	0.954
23	48 - 43	5		12	34.992	35.942	0.5375	A572-65	0.954
24	43 - 42.5	5.25	4.75	12	35.942	36.940	0.5375	A572-65	0.953
25	42.5 - 37.5	5		12	35.412	36.363	0.6	A572-65	0.956
26	37.5 - 32.5	5		12	36.363	37.313	0.5875	A572-65	0.968
27	32.5 - 27.5	5		12	37.313	38.263	0.5875	A572-65	0.959
28	27.5 - 22.5	5		12	38.263	39.214	0.575	A572-65	0.972
29	22.5 - 17.5	5		12	39.214	40.164	0.575	A572-65	0.964
30	17.5 - 12.5	5		12	40.164	41.114	0.56875	A572-65	0.967
31	12.5 - 7.5	5		12	41.114	42.065	0.5625	A572-65	0.971
32	7.5 - 2.75	4.75		12	42.065	42.967	0.5625	A572-65	0.964
33	2.75 - 2.5	0.25		12	42.967	43.015	0.4875	A572-65	0.978
34	2.5 - 0	2.5		12	43.015	43.490	0.4875	A572-65	0.975

## TNX Section Forces

Increment (ft):		TNX Output			
	5	Section Height (ft)	P <sub>u</sub> (K)	M <sub>ux</sub> (kip-ft)	V <sub>u</sub> (K)
1		133.5 - 128.5	2.88	17.75	5.45
2		128.5 - 123.5	3.08	45.32	5.58
3		123.5 - 121.5	3.17	56.52	5.63
4		121.5 - 119	3.30	70.69	5.73
5		119 - 114	6.75	118.60	9.70
6		114 - 109	8.89	170.52	11.30
7		109 - 104	9.35	228.27	11.81
8		104 - 99	13.91	306.80	16.88
9		99 - 94	15.06	393.57	18.52
10		94 - 89	15.72	487.37	19.02
11		89 - 85.25	16.24	559.35	19.39
12		85.25 - 85	16.31	564.20	19.45
13		85 - 80	17.35	663.09	20.15
14		80 - 78.75	17.62	688.36	20.29
15		78.75 - 74	19.05	786.12	20.87
16		74 - 69	19.92	891.65	21.37
17		69 - 68.25	20.06	907.71	21.47
18		68.25 - 68	20.13	913.08	21.52
19		68 - 63	21.42	1022.44	22.26
20		63 - 58	22.77	1135.66	23.04
21		58 - 53	24.13	1252.65	23.78
22		53 - 48	25.59	1373.58	24.58
23		48 - 43	27.00	1498.24	25.31
24		43 - 42.5	27.15	1510.90	25.38
25		42.5 - 37.5	29.82	1639.78	26.19
26		37.5 - 32.5	31.41	1772.40	26.89
27		32.5 - 27.5	33.04	1908.48	27.57
28		27.5 - 22.5	34.69	2047.89	28.22
29		22.5 - 17.5	36.37	2190.50	28.85
30		17.5 - 12.5	38.09	2336.15	29.44
31		12.5 - 7.5	39.83	2484.73	30.03
32		7.5 - 2.75	41.51	2628.63	30.59
33		2.75 - 2.5	41.60	2636.28	30.61
34		2.5 - 0	42.40	2713.04	30.83

# Analysis Results

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
133.5 - 128.5	Pole	TP10.75x10.75x0.188	Pole	19.3%	Pass
128.5 - 123.5	Pole	TP10.75x10.75x0.188	Pole	48.0%	Pass
123.5 - 121.5	Pole	TP10.75x10.75x0.188	Pole	59.7%	Pass
121.5 - 119	Pole	TP22x10.75x0.188	Pole	18.9%	Pass
119 - 114	Pole	TP22.95x22x0.25	Pole	19.2%	Pass
114 - 109	Pole	TP23.9x22.95x0.25	Pole	25.8%	Pass
109 - 104	Pole	TP24.85x23.9x0.25	Pole	32.2%	Pass
104 - 99	Pole	TP25.8x24.85x0.25	Pole	40.9%	Pass
99 - 94	Pole	TP26.75x25.8x0.25	Pole	49.3%	Pass
94 - 89	Pole	TP27.7x26.75x0.25	Pole	57.6%	Pass
89 - 85.25	Pole	TP28.413x27.7x0.25	Pole	63.4%	Pass
85.25 - 85	Pole + Reinf.	TP28.46x28.413x0.5125	Reinf. 2 Connection	46.8%	Pass
85 - 80	Pole + Reinf.	TP29.41x28.46x0.5	Reinf. 2 Compression	52.3%	Pass
80 - 78.75	Pole + Reinf.	TP30.36x29.41x0.5	Reinf. 2 Connection	53.6%	Pass
78.75 - 74	Pole	TP30.05x29.148x0.3125	Pole	59.7%	Pass
74 - 69	Pole	TP31.001x30.05x0.3125	Pole	64.2%	Pass
69 - 68.25	Pole	TP31.143x31.001x0.3125	Pole	64.9%	Pass
68.25 - 68	Pole + Reinf.	TP31.191x31.143x0.575	Reinf. 1 Tension Rupture	48.9%	Pass
68 - 63	Pole + Reinf.	TP32.141x31.191x0.575	Reinf. 1 Tension Rupture	52.2%	Pass
63 - 58	Pole + Reinf.	TP33.091x32.141x0.5625	Reinf. 1 Tension Rupture	55.4%	Pass
58 - 53	Pole + Reinf.	TP34.042x33.091x0.55	Reinf. 1 Tension Rupture	58.4%	Pass
53 - 48	Pole + Reinf.	TP34.992x34.042x0.5438	Reinf. 1 Tension Rupture	61.2%	Pass
48 - 43	Pole + Reinf.	TP35.942x34.992x0.5375	Reinf. 1 Tension Rupture	64.0%	Pass
43 - 42.5	Pole + Reinf.	TP36.94x35.942x0.5375	Reinf. 1 Tension Rupture	64.2%	Pass
42.5 - 37.5	Pole + Reinf.	TP36.363x35.412x0.6	Reinf. 1 Tension Rupture	61.6%	Pass
37.5 - 32.5	Pole + Reinf.	TP37.313x36.363x0.5875	Reinf. 1 Tension Rupture	63.7%	Pass
32.5 - 27.5	Pole + Reinf.	TP38.263x37.313x0.5875	Reinf. 1 Tension Rupture	65.8%	Pass
27.5 - 22.5	Pole + Reinf.	TP39.214x38.263x0.575	Reinf. 1 Tension Rupture	67.8%	Pass
22.5 - 17.5	Pole + Reinf.	TP40.164x39.214x0.575	Reinf. 1 Tension Rupture	69.6%	Pass
17.5 - 12.5	Pole + Reinf.	TP41.114x40.164x0.5688	Reinf. 1 Tension Rupture	71.4%	Pass
12.5 - 7.5	Pole + Reinf.	TP42.065x41.114x0.5625	Reinf. 1 Tension Rupture	73.0%	Pass
7.5 - 2.75	Pole + Reinf.	TP42.967x42.065x0.5625	Reinf. 1 Tension Rupture	74.5%	Pass
2.75 - 2.5	Pole + Reinf.	TP43.015x42.967x0.4875	Reinf. 3 Connection	79.1%	Pass
2.5 - 0	Pole + Reinf.	TP43.49x43.015x0.4875	Reinf. 3 Connection	79.8%	Pass
				Summary	
			Pole	65.6%	Pass
			Reinforcement	79.8%	Pass
			Overall	79.8%	Pass

## Additional Calculations

Section Elevation (ft)	Moment of Inertia (in <sup>4</sup> )			Area (in <sup>2</sup> )			% Capacity*			
	Pole	Reinf.	Total	Pole	Reinf.	Total	Pole	R1	R2	R3
133.5 - 128.5	87	n/a	87	6.24	n/a	6.24	19.3%			
128.5 - 123.5	87	n/a	87	6.24	n/a	6.24	48.0%			
123.5 - 121.5	87	n/a	87	6.24	n/a	6.24	59.7%			
121.5 - 119	766	n/a	766	12.88	n/a	12.88	18.9%			
119 - 114	1204	n/a	1204	18.25	n/a	18.25	19.2%			
114 - 109	1361	n/a	1361	19.01	n/a	19.01	25.8%			
109 - 104	1532	n/a	1532	19.77	n/a	19.77	32.2%			
104 - 99	1716	n/a	1716	20.54	n/a	20.54	40.9%			
99 - 94	1915	n/a	1915	21.30	n/a	21.30	49.3%			
94 - 89	2128	n/a	2128	22.07	n/a	22.07	57.6%			
89 - 85.25	2298	n/a	2298	22.64	n/a	22.64	63.4%			
85.25 - 85	2310	2314	4624	22.68	19.95	42.62	30.9%		47.0%	
85 - 80	2551	2460	5011	23.44	19.95	43.39	35.1%		52.6%	
80 - 78.75	2614	2498	5112	23.63	19.95	43.58	36.2%		53.9%	
78.75 - 74	3382	n/a	3382	29.88	n/a	29.88	59.7%			
74 - 69	3717	n/a	3717	30.84	n/a	30.84	64.2%			
69 - 68.25	3769	n/a	3769	30.98	n/a	30.98	64.9%			
68.25 - 68	3786	3048	6835	31.03	22.60	53.63	34.9%	48.9%		
68 - 63	4147	3227	7374	31.98	22.60	54.58	37.8%	52.2%		
63 - 58	4530	3410	7940	32.94	22.60	55.54	40.6%	55.4%		
58 - 53	4935	3599	8534	33.89	22.60	56.49	43.4%	58.4%		
53 - 48	5364	3793	9157	34.85	22.60	57.45	46.1%	61.2%		
48 - 43	5817	3992	9809	35.80	22.60	58.40	48.8%	64.0%		
43 - 42.5	5864	4012	9876	35.90	22.60	58.50	49.0%	64.2%		
42.5 - 37.5	7193	4081	11274	43.39	22.60	65.99	43.8%	61.6%		
37.5 - 32.5	7778	4288	12066	44.54	22.60	67.14	45.8%	63.7%		
32.5 - 27.5	8394	4499	12893	45.68	22.60	68.28	47.8%	65.8%		
27.5 - 22.5	9042	4716	13757	46.83	22.60	69.43	49.8%	67.8%		
22.5 - 17.5	9722	4937	14659	47.98	22.60	70.58	51.7%	69.6%		
17.5 - 12.5	10435	5164	15599	49.12	22.60	71.72	53.6%	71.4%		
12.5 - 7.5	11182	5396	16578	50.27	22.60	72.87	55.4%	73.0%		
7.5 - 2.75	11925	5621	17545	51.36	22.60	73.96	57.1%	74.5%		
2.75 - 2.5	11965	3605	15570	51.41	13.75	65.16	64.6%			79.1%
2.5 - 0	12369	3680	16049	51.99	13.75	65.74	65.6%			79.8%

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

**Tube Bypass Analysis**

Revision= LRFD Passing= 100% Design/Analysis = Analysis @ 119 ft - 0 in elevation

**TNX Tower Output @ Connection:**

Moment	=	70.69	k-ft
Axial	=	3.30	kips
Shear	=	5.73	kips
Design Capacity	=	100.0%	

**Extension Geometry:**

Diameter	=	10.75	in
Thickness	=	23/63	in
Height	=	10	ft
Steel Grade	=	A572 Gr. 60	
Extension Offset	=		in
Gap Height	=		in
Pole Offset	=		in

**Pole Geometry:**

Diameter	=	22	in
Thickness	=	1/4	in
Steel Grade	=	A572 Gr. 65	
Flange/Mount Diam.	=		in

**Tube Bypass Information:**

Number of Legs	=	3	
Unbraced Length	=	108	in
Tube Circle	=	38.5	in
K	=	2.10	

Type	HSS 6x6x1/2	
	Extension	Pole
Blind Bolt	EXISTING AJAX	EXISTING AJAX
Method	Case 2	Case 2
Bolt Qty.	6	6
Spacing (in)	3	3
End Dist. (in)	3	3

**New Port Information**

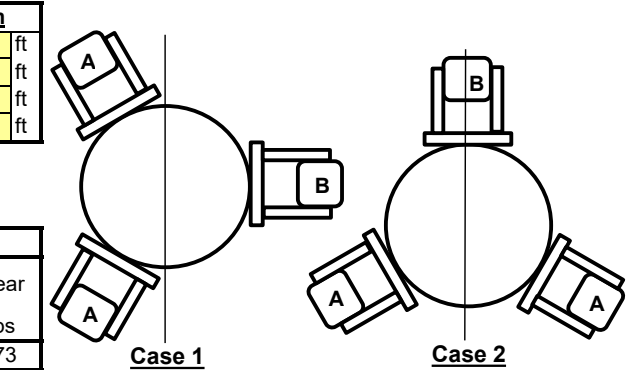
Elevation #1	=		ft
Elevation #2	=		ft
Elevation #3	=		ft
Elevation #4	=		ft

**Analysis Reactions**

Moment	Axial	Shear
k-ft	kips	kips
70.69	3.30	5.73

**Load Distribution**

Moment of Inertia, I	Axial / Leg
in <sup>2</sup>	kips
555.84	1.100



**Member Forces**

Case	d	Tension (kips)	Comp. (kips)	Mx (k-in)	My (k-in)	M (k-in)
1a	9.63	13.59	15.79	178.64	103.14	206.28
1b	19.25	28.28	30.48	0.00	206.28	206.28
2a	16.67	24.34	26.54	103.14	178.64	206.28
2b	0.00	1.10	1.10	206.28	0.00	206.28

**Compression Strength**

Case	4.71* √(E/F <sub>y</sub> )	KL/r	F <sub>e</sub> ksi	F <sub>cr</sub> ksi	φ <sub>c</sub> P <sub>nc</sub> kips	P <sub>rc</sub> kips	Capacity
1a	118.26	101.70	27.67	22.94	201.08	15.79	7.9%
1b	118.26	101.70	27.67	22.94	201.08	30.48	15.2%
2a	118.26	101.70	27.67	22.94	201.08	26.54	13.2%
2b	118.26	101.70	27.67	22.94	201.08	1.10	0.5%

**Flexural Strength**

Case	ø	I <sub>3</sub> in <sup>4</sup>	∑ I in <sup>4</sup>	M k-in	øbMn k-in	Capacity
1a	60.00	48.20	144.60	206.28	819.72	25.2%
1b	0.00	48.20	144.60	206.28	819.72	25.2%
2a	30.00	48.20	144.60	206.28	819.72	25.2%
2b	90.00	48.20	144.60	206.28	819.72	25.2%

**Tensile Strength**

Case	P <sub>n1</sub> kips	P <sub>n2</sub> kips	øtPnt kips	P <sub>rt</sub> kips	Capacity
1a	448.04	499.67	374.75	13.59	3.6%
1b	448.04	499.67	374.75	28.28	7.5%
2a	448.04	499.67	374.75	24.34	6.5%
2b	448.04	499.67	374.75	1.10	0.3%

**Combined Strength**

Case	Flexure + Tension (H1)		
	Prt / Pnt	Mr / Mn	Capacity
1a	0.018	0.252	25.7%*
1b	0.038	0.252	27.6%*
2a	0.032	0.252	27.1%*
2b	0.001	0.252	24.1%*

**Bolt Check**

Case	Location	Tube Comp. kips	e in	Shear on Bolt kips	Bearing Capacity kips	Shear Capacity kips	Tension on Bolt kips	Tension Capacity kips	Limit Capacity
1a	Ext	15.79	13.875	2.65	55.13	37.00	8.27	30.00	7.7%*
	Pole	15.79	8.25	9.17	40.28	37.00	8.80	30.00	14.0%*
1b	Ext	30.48	13.875	5.08	55.13	37.00	15.98	30.00	28.8%*
	Pole	30.48	8.25	5.08	40.28	37.00	17.27	30.00	33.4%*
2a	Ext	26.54	13.875	4.43	55.13	37.00	13.92	30.00	21.9%*
	Pole	26.54	8.25	6.73	40.28	37.00	15.00	30.00	27.0%*
2b	Ext	1.10	13.875	0.37	55.13	37.00	0.57	30.00	0.0%*
	Pole	1.10	8.25	10.14	40.28	37.00	0.34	30.00	7.2%*

\*TIA-222-H Section 15.5

- All equations based on AISC 13th Edition

# Monopole Base Plate Connection

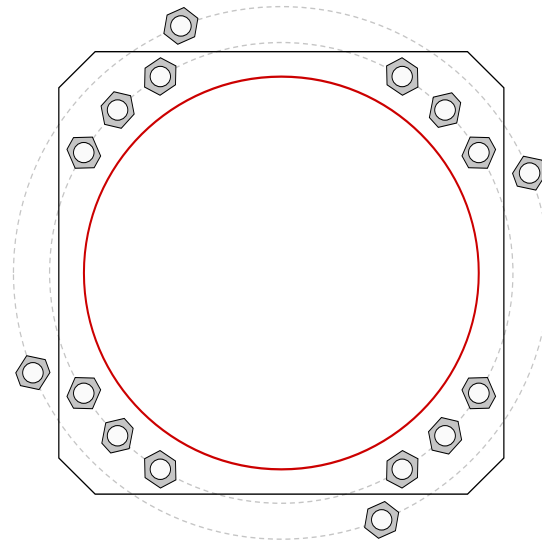


Site Info	
BU #	876340
Site Name	COE HILL
Order #	517073 Rev. 0

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
$l_{ar}$ (in)	0.75

Applied Loads	
Moment (kip-ft)	2713.04
Axial Force (kips)	42.40
Shear Force (kips)	30.83

\*TIA-222-H Section 15.5 Applied



Connection Properties	Analysis Results																												
<b>Anchor Rod Data</b> <hr/> GROUP 1: (12) 2-1/4" $\phi$ bolts (A615-75 N; $F_y=75$ ksi, $F_u=100$ ksi) on 51" BC <i>Anchor Spacing: 6 in</i> GROUP 2: (4) 2-1/4" $\phi$ bolts (Dywidag N; $F_y=120$ ksi, $F_u=125$ ksi) on 58.99" BC <hr/> <b>Base Plate Data</b> 49" OD x 3" Plate (A572-50; $F_y=50$ ksi, $F_u=65$ ksi) <hr/> <b>Stiffener Data</b> N/A <hr/> <b>Pole Data</b> 43.49" x 0.375" 12-sided pole (A572-65; $F_y=65$ ksi, $F_u=80$ ksi)	<b>Anchor Rod Summary</b> <span style="float: right;"><i>(units of kips, kip-in)</i></span> <hr/> GROUP 1: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"><math>P_{u\_c} = 139.84</math></td> <td style="width: 33%;"><math>\phi P_{n\_c} = 268.39</math></td> <td style="width: 33%;"><b>Stress Rating</b></td> </tr> <tr> <td><math>V_u = 2.57</math></td> <td><math>\phi V_n = 120.77</math></td> <td><b>49.7%</b></td> </tr> <tr> <td><math>M_u = n/a</math></td> <td><math>\phi M_n = n/a</math></td> <td style="color: green;"><b>Pass</b></td> </tr> </table> GROUP 2: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"><math>P_{u\_c} = 197.81</math></td> <td style="width: 33%;"><math>\phi P_{n\_c} = 440.64</math></td> <td style="width: 33%;"><b>Stress Rating</b></td> </tr> <tr> <td><math>V_u = 0</math></td> <td><math>\phi V_n = 198.29</math></td> <td><b>42.8%</b></td> </tr> <tr> <td><math>M_u = 0</math></td> <td><math>\phi M_n = 213.12</math></td> <td style="color: green;"><b>Pass</b></td> </tr> </table> <hr/> <b>Base Plate Summary</b> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Max Stress (ksi):</td> <td style="width: 33%;">23.33</td> <td style="width: 33%;">(Flexural)</td> </tr> <tr> <td>Allowable Stress (ksi):</td> <td>45</td> <td></td> </tr> <tr> <td>Stress Rating:</td> <td><b>49.4%</b></td> <td style="color: green;"><b>Pass</b></td> </tr> </table>		$P_{u\_c} = 139.84$	$\phi P_{n\_c} = 268.39$	<b>Stress Rating</b>	$V_u = 2.57$	$\phi V_n = 120.77$	<b>49.7%</b>	$M_u = n/a$	$\phi M_n = n/a$	<b>Pass</b>	$P_{u\_c} = 197.81$	$\phi P_{n\_c} = 440.64$	<b>Stress Rating</b>	$V_u = 0$	$\phi V_n = 198.29$	<b>42.8%</b>	$M_u = 0$	$\phi M_n = 213.12$	<b>Pass</b>	Max Stress (ksi):	23.33	(Flexural)	Allowable Stress (ksi):	45		Stress Rating:	<b>49.4%</b>	<b>Pass</b>
$P_{u\_c} = 139.84$	$\phi P_{n\_c} = 268.39$	<b>Stress Rating</b>																											
$V_u = 2.57$	$\phi V_n = 120.77$	<b>49.7%</b>																											
$M_u = n/a$	$\phi M_n = n/a$	<b>Pass</b>																											
$P_{u\_c} = 197.81$	$\phi P_{n\_c} = 440.64$	<b>Stress Rating</b>																											
$V_u = 0$	$\phi V_n = 198.29$	<b>42.8%</b>																											
$M_u = 0$	$\phi M_n = 213.12$	<b>Pass</b>																											
Max Stress (ksi):	23.33	(Flexural)																											
Allowable Stress (ksi):	45																												
Stress Rating:	<b>49.4%</b>	<b>Pass</b>																											

## Drilled Pier Foundation



BU #:	876340
Site Name:	COE HILL
Order Number:	517073 Rev. 0

TIA-222 Revison:	H
Tower Type:	Monopole

Applied Loads		
	Comp.	Uplift
Moment (kip-ft)	2713	
Axial Force (kips)	42	
Shear Force (kips)	31	

Material Properties		
Concrete Strength, f'c:	3	ksi
Rebar Strength, Fy:	60	ksi

Pier Design Data		
Depth	21	ft
Ext. Above Grade	0.5	ft
Pier Section 1		
<i>From 0.5' above grade to 21' below grade</i>		
Pier Diameter	7	ft
Rebar Quantity	24	
Rebar Size	11	
Clear Cover to Ties	4	in
Tie Size	5	

Rebar & Pier Options

Embedded Pole Inputs

Belled Pier Inputs

Analysis Results		
<b>Soil Lateral Check</b>		
	Compression	Uplift
D <sub>v=0</sub> (ft from TOC)	6.21	-
Soil Safety Factor	2.30	-
Max Moment (kip-ft)	2874.76	-
Rating*	55.1%	-
<b>Soil Vertical Check</b>		
	Compression	Uplift
Skin Friction (kips)	428.11	-
End Bearing (kips)	432.95	-
Weight of Concrete (kips)	148.94	-
Total Capacity (kips)	861.06	-
Axial (kips)	190.94	-
Rating*	21.1%	-
<b>Reinforced Concrete Check</b>		
	Compression	Uplift
Critical Depth (ft from TOC)	6.04	-
Critical Moment (kip-ft)	2874.50	-
Critical Moment Capacity	5838.97	-
Rating*	46.9%	-
<b>Soil Interaction Rating*</b>		<b>55.1%</b>
<b>Structural Foundation Rating*</b>		<b>46.9%</b>

\*Rating per TIA-222-H Section 15.5

Check Limitation	
Apply TIA-222-H Section 15.5:	<input checked="" type="checkbox"/>
N/A	<input type="checkbox"/>

Soil Profile			
Groundwater Depth	n/a	# of Layers	4

Layer	Top (ft)	Bottom (ft)	Thickness (ft)	γ <sub>soil</sub> (pcf)	γ <sub>concrete</sub> (pcf)	Cohesion (ksf)	Angle of Friction (degrees)	Calculated Ultimate Skin Friction Comp (ksf)	Calculated Ultimate Skin Friction Uplift (ksf)	Ultimate Skin Friction Comp Override (ksf)	Ultimate Skin Friction Uplift Override (ksf)	Ult. Gross Bearing Capacity (ksf)	SPT Blow Count	Soil Type
1	0	2	2	100	150	0	0	0.000	0.000					Cohesionless
2	2	3.5	1.5	120	150	0	0	0.000	0.000					Cohesionless
3	3.5	6	2.5	120	150		30	0.639	0.639				47	Cohesionless
4	6	21	15	125	150		35	1.624	1.624			15	41	Cohesionless

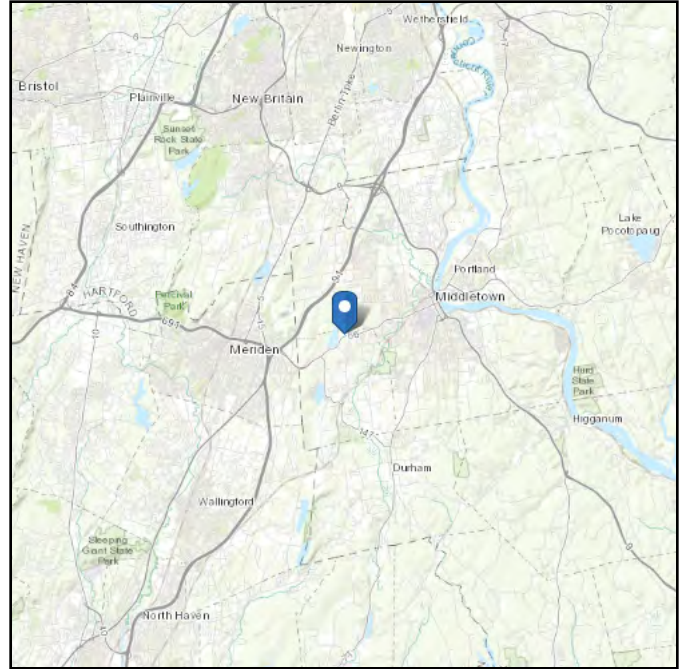


# ASCE 7 Hazards Report

**Address:**  
No Address at This  
Location

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

**Elevation:** 444.26 ft (NAVD 88)  
**Latitude:** 41.546  
**Longitude:** -72.714972

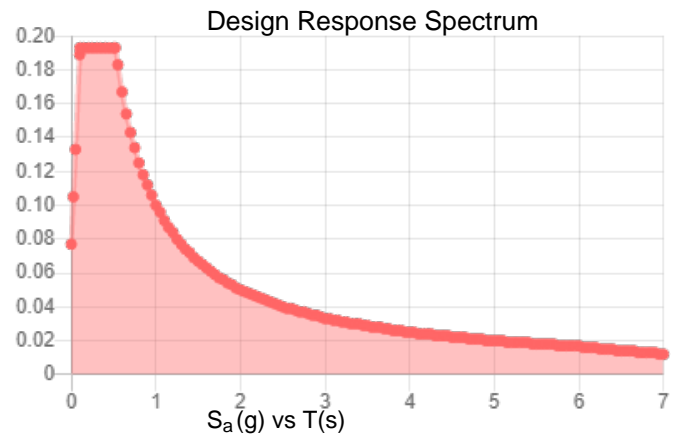
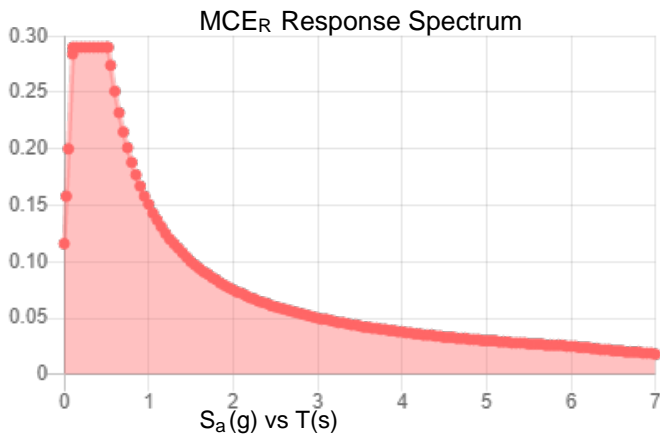


**Site Soil Class:** D - Stiff Soil

**Results:**

$S_s$ :	0.181	$S_{DS}$ :	0.193
$S_1$ :	0.063	$S_{D1}$ :	0.1
$F_a$ :	1.6	$T_L$ :	6
$F_v$ :	2.4	PGA :	0.093
$S_{MS}$ :	0.29	PGA <sub>M</sub> :	0.148
$S_{M1}$ :	0.151	F <sub>PGA</sub> :	1.6
		$I_e$ :	1

**Seismic Design Category** B



**Data Accessed:**

Thu May 28 2020

**Date Source:**

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

## Ice

---

### Results:

Ice Thickness: 0.75 in.

Concurrent Temperature: 15 F

Gust Speed: 50 mph

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

**Date Accessed:** Thu May 28 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 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**

May 21, 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](mailto:Structures@tepgroup.net)

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

**Carrier Designation:** **AT&T Mobility Reconfiguration**  
**Client Site Number:** 25926  
**Client Site Name:** CTL01143  
**FA Location Code:** 10035379

**Crown Castle Designation:** **Crown Castle BU Number:** 876340  
**Crown Castle Site Name:** Coe Hill  
**Crown Castle JDE Job Number:** 605413  
**Crown Castle Order Number:** 517073 Rev. 0

**Engineering Firm Designation:** **TEP Project Number:** 25633.415540

**Site Data:** **238 Meriden Road, Middlefield, Middlesex County, CT 06457**  
**Latitude 41° 32' 45.60", Longitude -72° 42' 53.90"**

**Structure Information:** **Tower Height & Type:** 133.0± ft Monopole  
**Mount Elevation:** 131.0 ft  
**Mount Width & Type:** 12.5 ft Platform w/ Support Rail

Dear Kevin Morrow,

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

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

**Platform w/ Support Rail Mount**

**Sufficient Capacity**

The analysis has been performed in accordance with the 2018 International Building Code based upon an ultimate 3-second gust wind speed of 119 mph. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Dante M. Lo Greco / GHM

Respectfully submitted by:

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



Electronic Copy

05/21/2020

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Mount Modification Design Drawings (MDD)

### 1) INTRODUCTION

The mount is an existing 12.5-ft Platform w/ Handrail mount, designed by Sabre.

### 2) ANALYSIS CRITERIA

<b>Building Code:</b>	2018 IBC
<b>TIA-222 Revision:</b>	TIA-222-H
<b>Risk Category:</b>	II
<b>Ultimate Wind Speed:</b>	119 mph
<b>Exposure Category:</b>	C
<b>Topographic Category at Base:</b>	1
<b>Topographic Category at Mount:</b>	1
<b>Ice Thickness:</b>	1.00 in
<b>Wind Speed with Ice:</b>	50 mph
<b>Seismic Design Category:</b>	B
<b>Seismic S<sub>s</sub>:</b>	0.207
<b>Seismic S<sub>1</sub>:</b>	0.055
<b>Live Loading Wind Speed:</b>	30 mph
<b>Live Loading at Mid/End-Points:</b>	250 lb
<b>Man Live Loading at Mount Pipes:</b>	500 lb

**Table 1 - Proposed Equipment Configuration**

Mount Centerline (ft)	Antenna Centerline (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Mount / Modification Details
131.0	132.0	2	CCI Antennas	DMP65R-BU6D	Platform w/ Support Rail Mount
		2	CCI Antennas	OPA65R-BU6D	
		1	CCI Antennas	DMP65R-BU4D	
		1	CCI Antennas	OPA65R-BU4D	
		3	Powerwave	P65-15-XLH-RR	
		3	Ericsson	RRUS 4449 B5/B12	
		3	Ericsson	RRUS 8843 B2/B66A	
		6	Kathrein	860 10025	
	6	Powerwave	CM1007-DBPXBC-003		
	131.0	3	Powerwave	TT19-08BP111-001	
3		Raycap	DC6-48-60-18-8F		

### 3) ANALYSIS PROCEDURE

**Table 2 - Documents Provided**

Document	Remarks	Reference	Source
Mount Manufacturer Drawings	Sabre	C10851001	TEP
Loading Application	AT&T Mobility	Order 517073 Rev. 0	CCIsites
Previous Mount Analysis	Tower Engineering Professionals	9084534	CCIsites

### 3.1) Analysis Method

RISA-3D (Version 17.0.2), a commercially available analysis software package, was used to create a three-dimensional model of the mount and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A and Appendix C.

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

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

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

### 3.2) Assumptions

- 1) The mount was built in accordance with the manufacturer's specifications.
- 2) The mount has been maintained in accordance with the manufacturer's specification.
- 3) The configuration of antennas, mounts and other appurtenances are as specified in Table 1. All mount components have been assumed to be in sufficient condition to carry their full design capacity for this analysis. Refer to the issued mapping for any structural and/or maintenance issues found during our site visit if applicable.
- 4) All mount components are in sufficient condition to carry their full design capacity.
- 5) TEP did not analyze the collar mount connection to the pole and assumes it to have sufficient structural capacity to transfer the applied forces from the mount to the tower.
- 6) All material grades used for this analysis, unless verified by mount manufacturer design, were assumed per AISC Table 2-4, 15<sup>th</sup> Edition. See RISA-3D output for confirmation on grades used in this analysis.

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



#### 4) ANALYSIS RESULTS

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

Notes	Component	Critical Member	Mount Centerline (ft)	% Capacity	Pass / Fail
1	Face Horizontals	SF1-H2-1	131.0	29.5	Pass
1	Support Rails	FF-SR	131.0	25.5	Pass
1	Support Arms	SA3	131.0	28.3	Pass
1	Internals	GS17	131.0	46.7	Pass
1	Mount Pipes	MP-8	131.0	50.0	Pass
1	Corner Connection	SRC-2	131.0	42.0	Pass
2	Connection Bolts	-	131.0	20.5	Pass
2	Connection Plate	-	131.0	56.9	Pass

<b>Structure Rating (max from all components) =</b>	<b>56.9%</b>
---	--------------

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) <sup>3</sup>	Notes
-	-	-	-	-	-	-

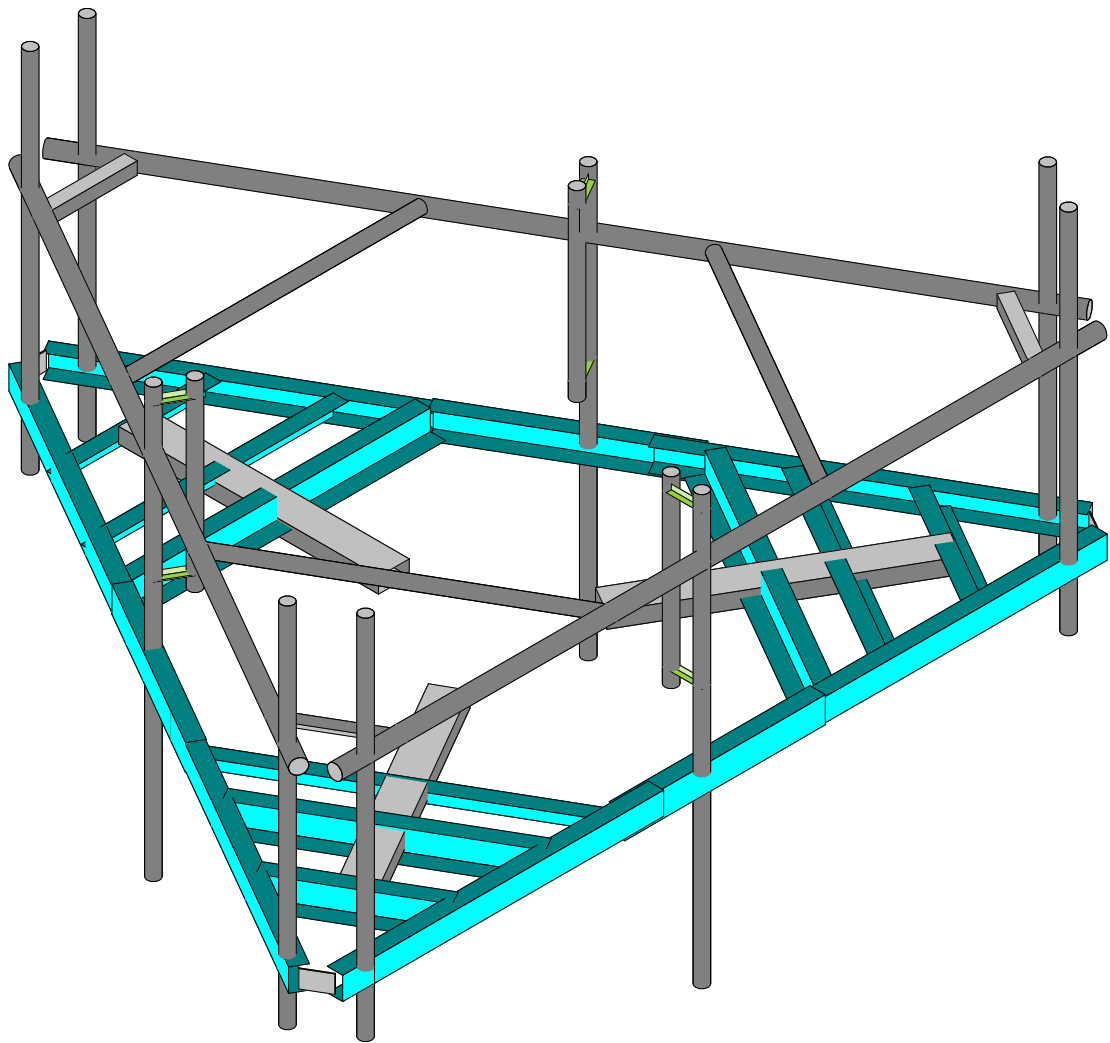
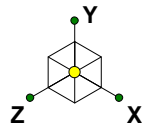
Notes:

- 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 modifications depicted in "Appendix E – Mount Modification Design Drawings" shall be installed and, upon completion, inspected. The mount has sufficient capacity to support the proposed loading configuration once the proposed modifications listed below are completed.
  - a) SitePro HRK12-3HD Handrail Reinforcement Kit, or approved equivalent.

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



Envelope Only Solution

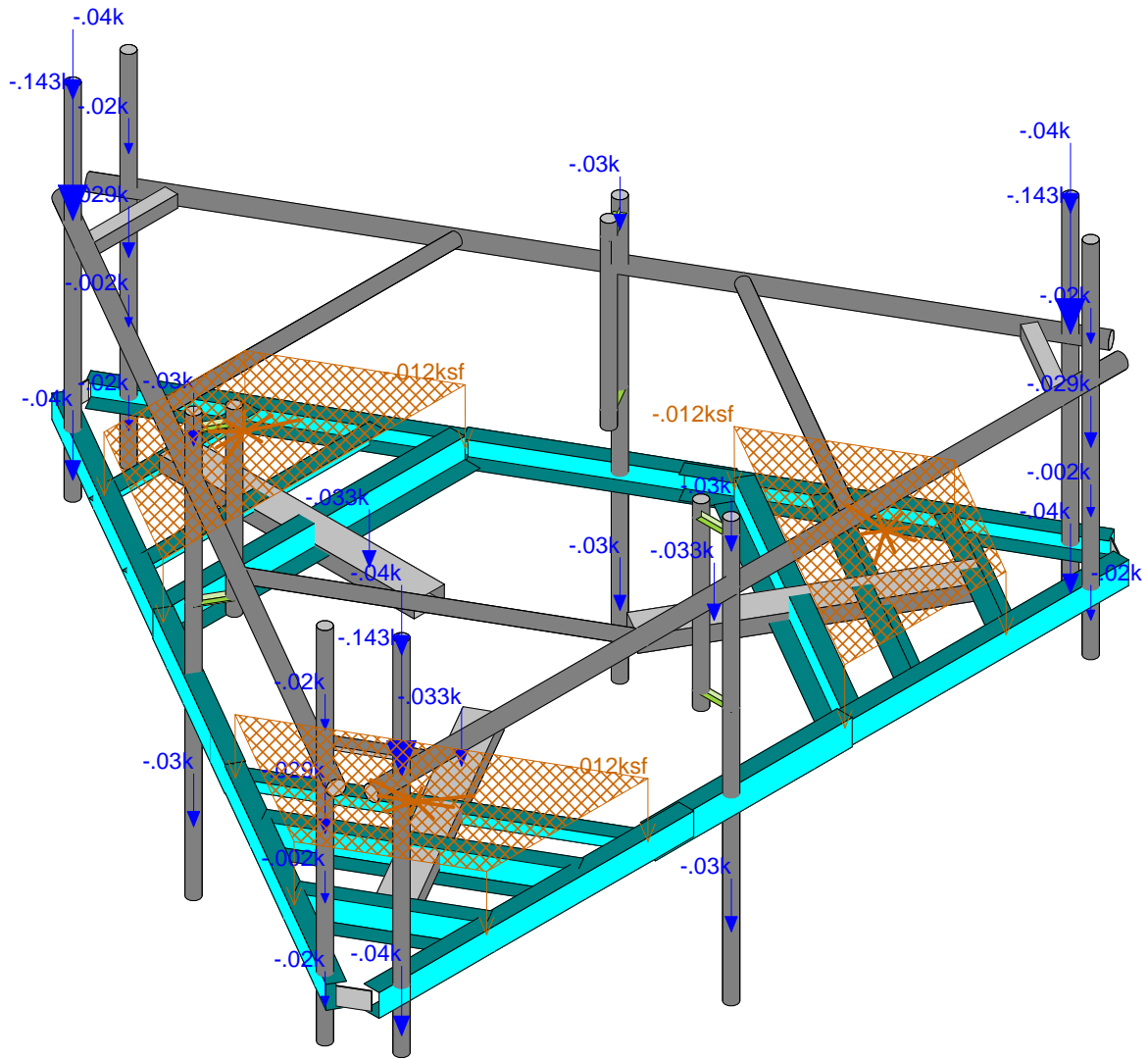
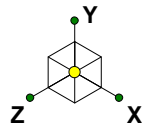
Tower Engineering Profes...  
DMLG  
TEP No. 25633.415540

CCI BU No. 876340

SK - 1

May 21, 2020 at 8:34 AM

Mount Rev H.r3d



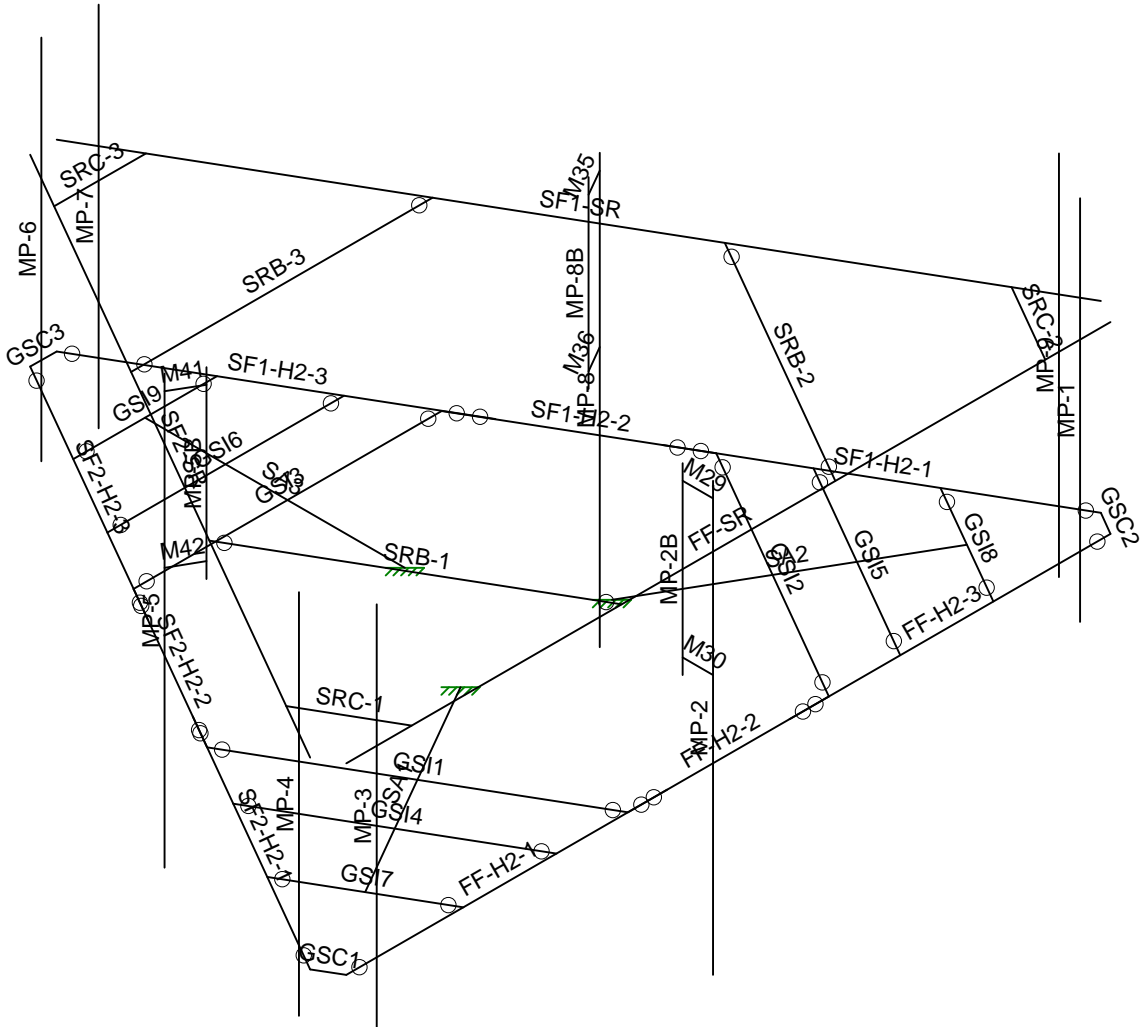
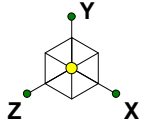
Loads: BLC 1, Dead  
Envelope Only Solution

Tower Engineering Profes...  
DMLG  
TEP No. 25633.415540

CCI BU No. 876340

SK - 2  
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Mount Rev H.r3d



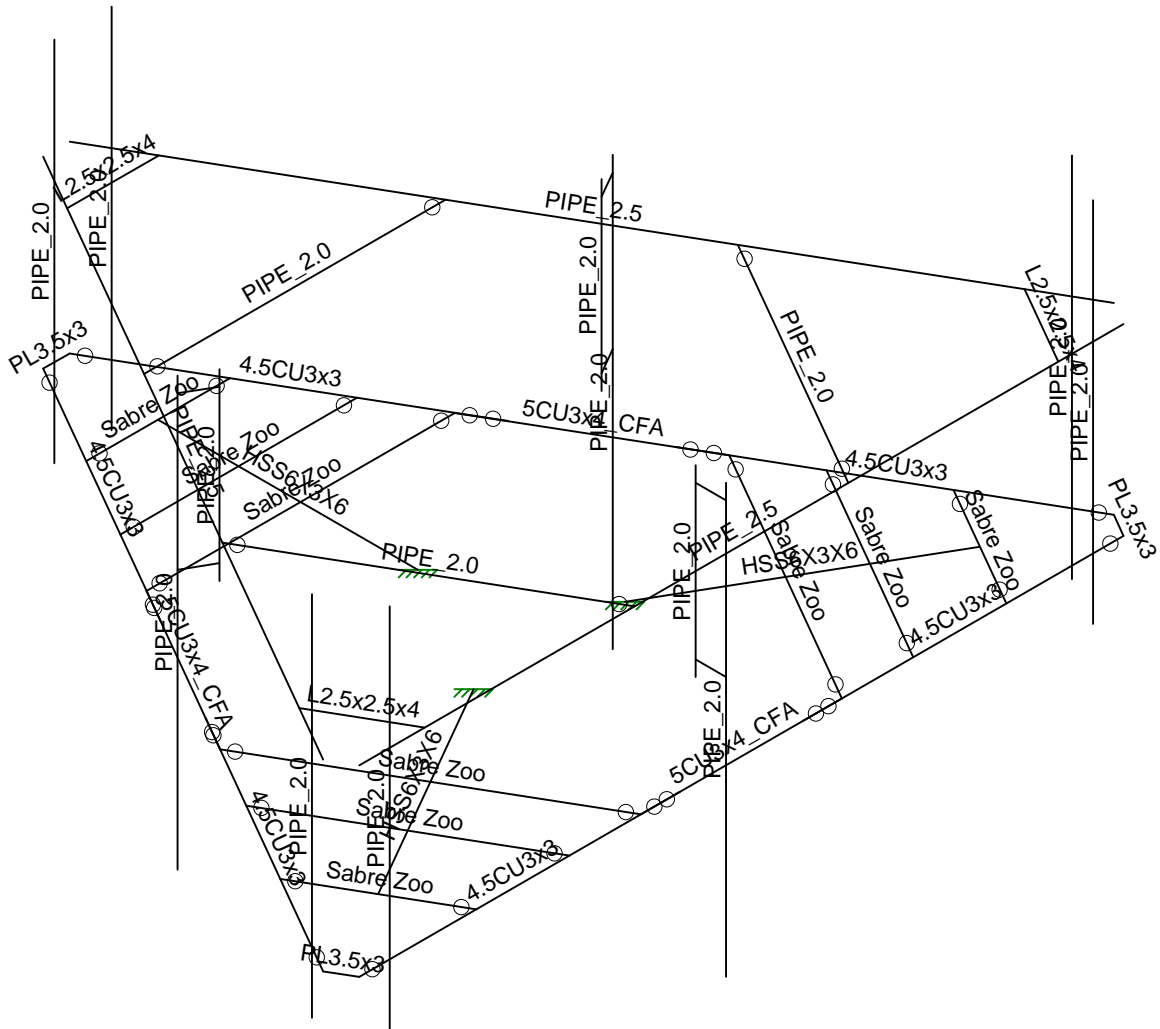
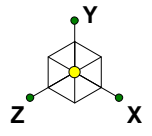


Envelope Only Solution

Tower Engineering Profes...  
 DMLG  
 TEP No. 25633.415540

CCI BU No. 876340

SK - 4  
 May 21, 2020 at 8:36 AM  
 Mount Rev H.r3d



Envelope Only Solution

Tower Engineering Profes...  
 DMLG  
 TEP No. 25633.415540

CCI BU No. 876340

SK - 5  
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 Mount Rev H.r3d

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





**TOWER  
ENGINEERING  
PROFESSIONALS**

**CCI BU No. 876340**

**TEP No.** 25633.415540

**Analysis By:** DMLG 5/21/2020

**Checked By:** GHM 5/21/2020

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

**Wind Inputs:**

Ult. Wind Velocity:	119.0	mph
Live Load Velocity:	30.0	mph
Ice Wind Velocity:	50.0	mph
Base Ice Thickness:	1.00	inches
Mount Centerline:	131.0	ft
Antenna Centerline:	132.0	ft
Exposure Category:	C	
Topo Category:	1	
Risk Category:	II	
Ground Elevation:	444	ft

**Wind Calculations:**

$K_{zt}$ :	1.000	Section 2.6.6
$K_d$ :	0.950	
$K_{z-Mount}$ :	1.340	Section 2.6.5.2
$K_{z-Antenna}$ :	1.342	Section 2.6.5.2
$K_{iz}$ :	1.148	Section 2.6.10
Ice Thickness:	1.148	inches - Section 2.6.10

Without Ice - (psf)		With Ice - (psf)	
$(q_z G_h)_{Mount}$ :	45.40	$(q_z G_h)_{Mount}$ :	8.02
$(q_z G_h)_{Antenna}$ :	45.47	$(q_z G_h)_{Antenna}$ :	8.03



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	P65-15-XLH-RR	51.00	12.00	6.00	40.00	0.00	1	Flat	MP-1	1.50	5.50	
Powerwave Technologies	TT19-08BP111-001	9.90	6.70	5.40	16.00	0.00	1	Flat	MP-1	3.00		
Powerwave Technologies	CM1007-DBPXBC-003	4.92	8.96	3.27	6.50	0.00	2	Flat	MP-1	3.00		
Kathrein	860 10025	7.00	2.30	1.90	1.16	0.00	2	Flat	MP-1	4.00		
CCI Antennas	OPA65R-BU6D	71.20	21.00	7.80	60.20	0.00	1	Flat	MP-2	0.50	6.00	
CCI Antennas	DMP65R-BU6D	71.20	20.70	7.70	79.40	0.00	1	Flat	MP-3	0.25	5.75	
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	0.00	1	Flat	MP-3	2.00		
Powerwave Technologies	P65-15-XLH-RR	51.00	12.00	6.00	40.00	120.00	1	Flat	MP-4	1.50	5.50	
Powerwave Technologies	TT19-08BP111-001	9.90	6.70	5.40	16.00	120.00	1	Flat	MP-4	3.00		
Powerwave Technologies	CM1007-DBPXBC-003	4.92	8.96	3.27	6.50	120.00	2	Flat	MP-4	3.00		
Kathrein	860 10025	7.00	2.30	1.90	1.16	120.00	2	Flat	MP-4	4.00		
CCI Antennas	OPA65R-BU6D	71.20	21.00	7.80	60.20	120.00	1	Flat	MP-5	0.50	6.00	
CCI Antennas	DMP65R-BU6D	71.20	20.70	7.70	79.40	120.00	1	Flat	MP-6	0.25	5.75	
Ericsson	RRUS 4449 B5/B12	17.90	13.19	9.44	71.00	120.00	1	Flat	MP-6	2.00		
Ericsson	RRUS 8843 B2/B66A	14.90	13.20	10.90	72.00	120.00	1	Flat	MP-6	2.00		
Powerwave Technologies	P65-15-XLH-RR	51.00	12.00	6.00	40.00	240.00	1	Flat	MP-7	1.50	5.50	
Powerwave Technologies	TT19-08BP111-001	9.90	6.70	5.40	16.00	240.00	1	Flat	MP-7	3.00		
Powerwave Technologies	CM1007-DBPXBC-003	4.92	8.96	3.27	6.50	240.00	2	Flat	MP-7	3.00		
Kathrein	860 10025	7.00	2.30	1.90	1.16	240.00	2	Flat	MP-7	4.00		
CCI Antennas	OPA65R-BU6D	71.20	21.00	7.80	60.20	240.00	1	Flat	MP-8	0.50	6.00	
CCI Antennas	DMP65R-BU6D	71.20	20.70	7.70	79.40	240.00	1	Flat	MP-9	0.25	5.75	
Ericsson	RRUS 4449 B5/B12	17.90	13.19	9.44	71.00	240.00	1	Flat	MP-9	2.00		
Ericsson	RRUS 8843 B2/B66A	14.90	13.20	10.90	72.00	240.00	1	Flat	MP-9	2.00		
Raycap	DC6-48-60-18-8F	31.25	11.00	11.00	32.80	60.00	1	Round	SA1	1.00		
Raycap	DC6-48-60-18-8F	31.25	11.00	11.00	32.80	300.00	1	Round	SA2	1.00		
Raycap	DC6-48-60-18-8F	31.25	11.00	11.00	32.80	180.00	1	Round	SA3	1.00		



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

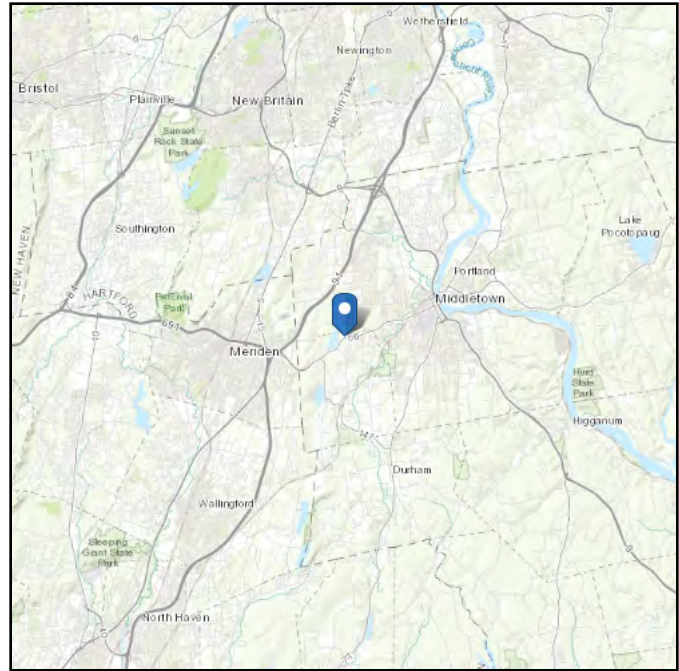
Member Name	Wind Proj. (in)	Length (in)	Shape	θ (°)	Perimeter (in)
SA1	3.000	51.00	Flat	-60.00	18.00
SA2	3.000	51.00	Flat	60.00	18.00
SA3	3.000	51.00	Flat	0.00	18.00
GSI1	4.063	60.48	Flat	30.00	19.75
GSI2	4.063	60.48	Flat	-30.00	19.75
GSI3	4.063	60.48	Flat	90.00	19.75
FF-H2-3	4.500	63.00	Flat	90.00	20.62
SF1-H2-3	4.500	63.00	Flat	30.00	20.62
SF2-H2-1	4.500	63.00	Flat	-30.00	20.62
GSI4	4.063	46.48	Flat	30.00	19.75
GSI5	4.063	46.48	Flat	-30.00	19.75
GSI6	4.063	46.48	Flat	90.00	19.75
GSI7	4.063	28.22	Flat	30.00	19.75
GSI8	4.063	28.22	Flat	-30.00	19.75
GSI9	4.063	28.22	Flat	90.00	19.75
GSC2	4.063	5.20	Flat	-30.00	19.75
GSC1	4.063	5.20	Flat	30.00	19.75
GSC3	4.063	5.20	Flat	90.00	19.75
SF1-H2-2	5.125	39.44	Flat	30.00	21.75
FF-H2-2	5.125	39.44	Flat	90.00	21.75
SF2-H2-2	5.125	39.44	Flat	-30.00	21.75
SF1-H2-1	4.500	63.00	Flat	30.00	20.62
FF-H2-1	4.500	63.00	Flat	90.00	20.62
SF2-H2-3	4.500	63.00	Flat	-30.00	20.62
MP-3	2.375	72.00	Round		7.46
MP-1	2.375	72.00	Round		7.46
MP-2	2.375	84.00	Round		7.46
MP-2B	2.375	36.00	Round		7.46
MP-9	2.375	72.00	Round		7.46
MP-7	2.375	72.00	Round		7.46
MP-8	2.375	84.00	Round		7.46
MP-8B	2.375	36.00	Round		7.46
MP-6	2.375	72.00	Round		7.46
MP-4	2.375	72.00	Round		7.46
MP-5	2.375	84.00	Round		7.46
MP-5B	2.375	36.00	Round		7.46
FF-SR	2.875	150.00	Round	90.00	9.03
SF2-SR	2.875	150.00	Round	-30.00	9.03
SF1-SR	2.875	150.00	Round	30.00	9.03
SRB-1	2.375	59.20	Round	30.00	7.46
SRB-2	2.375	59.20	Round	-30.00	7.46
SRB-3	2.375	59.20	Round	90.00	7.46
SRC-1	2.500	18.00	Flat	30.00	10.00
SRC-2	2.500	18.00	Flat	-30.00	10.00
SRC-3	2.500	18.00	Flat	90.00	10.00

# ASCE 7 Hazards Report

**Address:**  
No Address at This Location

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

**Elevation:** 444.26 ft (NAVD 88)  
**Latitude:** 41.546  
**Longitude:** -72.714972



## Wind

### Results:

Wind Speed:	119 Vmph
10-year MRI	75 Vmph
25-year MRI	84 Vmph
50-year MRI	90 Vmph
100-year MRI	98 Vmph

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

**Date Accessed:** Wed May 20 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.

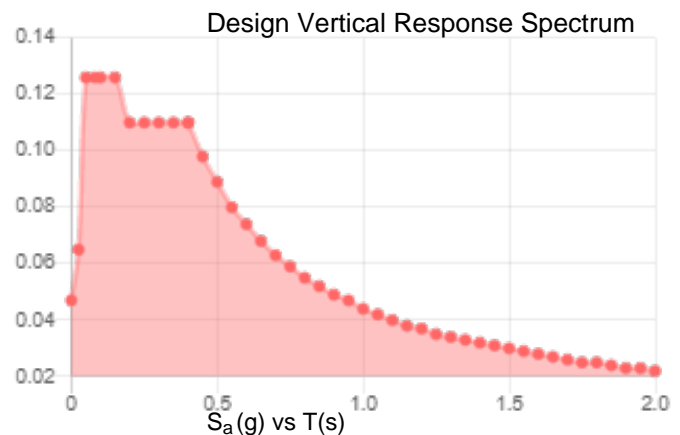
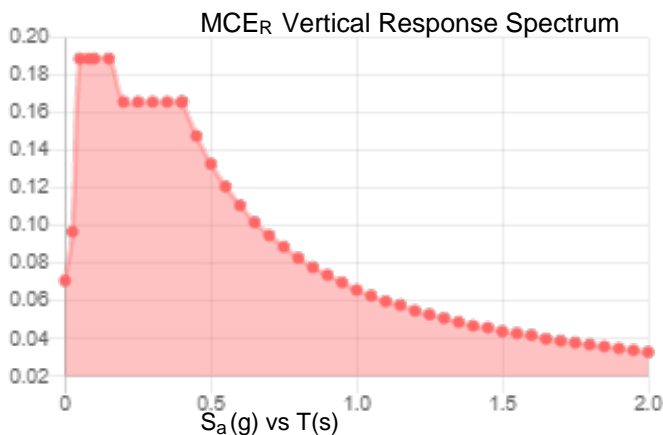
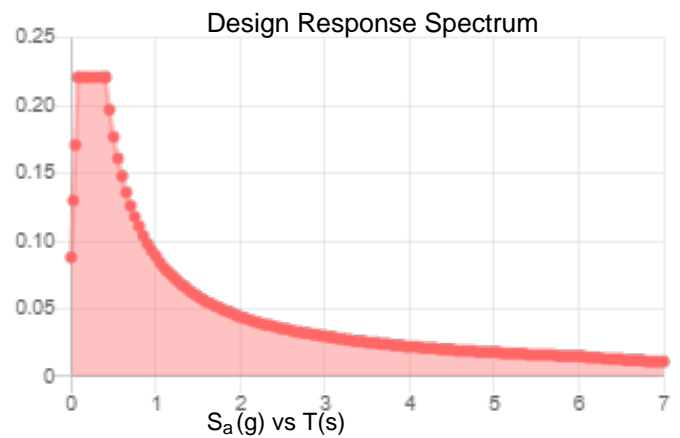
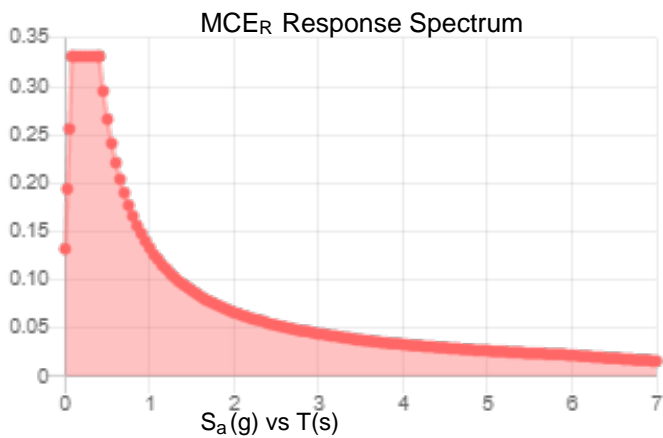
Mountainous terrain, gorges, ocean promontories, and special wind regions should be examined for unusual wind conditions.

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

**Results:**

$S_s$ :	0.207	$S_{D1}$ :	0.089
$S_1$ :	0.055	$T_L$ :	6
$F_a$ :	1.6	PGA :	0.115
$F_v$ :	2.4	PGA <sub>M</sub> :	0.181
$S_{MS}$ :	0.331	$F_{PGA}$ :	1.57
$S_{M1}$ :	0.133	$I_e$ :	1
$S_{DS}$ :	0.221	$C_v$ :	0.714

**Seismic Design Category** B



**Data Accessed:**

Wed May 20 2020

**Date Source:**

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

## Ice

---

**Results:**

Ice Thickness: 1.00 in.

Concurrent Temperature: 15 F

Gust Speed: 50 mph

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

**Date Accessed:** Wed May 20 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.

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



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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**(Global) Model Settings**

Display Sections for Member Calcs	5
Max Internal Sections for Member Calcs	97
Include Shear Deformation?	Yes
Increase Nailing Capacity for Wind?	Yes
Include Warping?	Yes
Trans Load Btwn Intersecting Wood Wall?	Yes
Area Load Mesh (in^2)	144
Merge Tolerance (in)	.12
P-Delta Analysis Tolerance	0.50%
Include P-Delta for Walls?	Yes
Automatically Iterate Stiffness for Walls?	Yes
Max Iterations for Wall Stiffness	3
Gravity Acceleration (ft/sec^2)	32.2
Wall Mesh Size (in)	24
Eigensolution Convergence Tol. (1.E-)	4
Vertical Axis	Y
Global Member Orientation Plane	XZ
Static Solver	Sparse Accelerated
Dynamic Solver	Accelerated Solver

Hot Rolled Steel Code	AISC 15th(360-16): LRFD
Adjust Stiffness?	No
RISACONNECTION CODE	None
Cold Formed Steel Code	AISI S100-16: LRFD
Wood Code	None
Wood Temperature	< 100F
Concrete Code	None
Masonry Code	None
Aluminum Code	None - Building
Stainless Steel Code	None

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



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**(Global) Model Settings, Continued**

Seismic Code	ASCE 7-10
Seismic Base Elevation (ft)	Not Entered
Add Base Weight?	Yes
Ct X	.02
Ct Z	.02
T X (sec)	Not Entered
T Z (sec)	Not Entered
R X	3
R Z	3
Ct Exp. X	.75
Ct Exp. Z	.75
SD1	1
SDS	1
S1	1
TL (sec)	5
Risk Cat	I or II
Drift Cat	Other
Om Z	1
Om X	1
Cd Z	1
Cd X	1
Rho Z	1
Rho X	1

**Hot Rolled Steel Properties**

	Label	F [ksj]	G [ksj]	Nu	Therm (1E..)	Density[k/ft..]	Yield[ksj]	Ry	Fu[ksj]	Rt
1	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	.3	.65	.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3

**Hot Rolled Steel Section Sets**

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Mount Pipes	PIPE 2.0	Column	None	A53 Gr.B	Typical	1.02	.627	.627	1.25
2	Support Arms	HSS6X3X6	Beam	None	A500 Gr.B R...	Typical	5.48	7.48	22.7	19.3
3	Bottom Connection Plate	PL3.5x3	Beam	None	A36 Gr.36	Typical	.656	.002	.67	.007
4	HRK12-3HD (a)	PIPE 2.5	Beam	None	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
5	HRK12-3HD (b)	PIPE 2.0	Beam	None	A53 Gr.B	Typical	1.02	.627	.627	1.25
6	HRK12-3HD (c)	L2.5x2.5x4	Beam	None	A36 Gr.36	Typical	1.19	.692	.692	.026

**Cold Formed Steel Section Sets**

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Grating Internal	Sabre Zoo	Beam	None	A36	Typical	1.766	3.076	4.794	.021
2	Main Horizontal	4.5CU3x3	Beam	None	A36	Typical	1.803	1.663	5.838	.021
3	Middle Horizontal	5CU3x4 CFA	Beam	None	A36	Typical	2.549	2.272	10.277	.053





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**Material Takeoff**

	Material	Size	Pieces	Length[ft]	Weight[K]
1	General				
2	RIGID		6	3	0
3	Total General		6	3	0
4					
5	Hot Rolled Steel				
6	A36 Gr.36	PL3.5x3	3	1.3	0
7	A36 Gr.36	L2.5x2.5x4	3	4.5	0
8	A500 Gr.B Rect	HSS6X3X6	3	12.8	3
9	A53 Gr.B	PIPE 2.0	15	80.8	.3
10	A53 Gr.B	PIPE 2.5	3	37.5	.2
11	Total HR Steel		27	136.8	.8
12					
13	Cold Formed Steel				
14	A36	4.5CU3x3	6	31.5	.2
15	A36	5CU3x4 CFA	3	9.9	0
16	A36	Sabre Zoo	9	33.8	.2
17	Total CF Steel		18	75.2	.5

**Joint Boundary Conditions**

	Joint Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot.[k-ft/rad]	Y Rot.[k-ft/rad]	Z Rot.[k-ft/rad]
1	SA3	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
2	SA1	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
3	SA2	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction

**Member Primary Data**

	Label	I Joint	J Joint	K Joint	Rotate[d...]	Section/Shape	Type	Design List	Material	Design Rul...
1	SA1	SA1	SA4		90	Support Arms	Beam	None	A500 Gr.B Re...	Typical
2	SA2	SA2	SA5		90	Support Arms	Beam	None	A500 Gr.B Re...	Typical
3	SA3	SA3	SA6		90	Support Arms	Beam	None	A500 Gr.B Re...	Typical
4	GS11	GS11	GS12			Grating Internal	Beam	None	A36	Typical
5	GS12	GS13	GS14			Grating Internal	Beam	None	A36	Typical
6	GS13	GS15	GS16		180	Grating Internal	Beam	None	A36	Typical
7	FF-H2-3	FF2	FF4			Main Horizontal	Beam	None	A36	Typical
8	SF1-H2-3	SF1-2	SF1-4			Main Horizontal	Beam	None	A36	Typical
9	SF2-H2-1	SF2-2	SF2-4			Main Horizontal	Beam	None	A36	Typical
10	GS14	GS18	GS17			Grating Internal	Beam	None	A36	Typical
11	GS15	GS110	GS19			Grating Internal	Beam	None	A36	Typical
12	GS16	GS112	GS111			Grating Internal	Beam	None	A36	Typical
13	GS17	GS114	GS113			Grating Internal	Beam	None	A36	Typical
14	GS18	GS116	GS115			Grating Internal	Beam	None	A36	Typical
15	GS19	GS118	GS117			Grating Internal	Beam	None	A36	Typical
16	GSC2	SF1-1	FF2			Bottom Connection Plate	Beam	None	A36 Gr.36	Typical
17	GSC1	FF1	SF2-2			Bottom Connection Plate	Beam	None	A36 Gr.36	Typical
18	GSC3	SF2-1	SF1-2			Bottom Connection Plate	Beam	None	A36 Gr.36	Typical
19	SF1-H2-2	GS15	GS14			Middle Horizontal	Beam	None	A36	Typical
20	FF-H2-2	GS13	GS12			Middle Horizontal	Beam	None	A36	Typical
21	SF2-H2-2	GS11	GS16			Middle Horizontal	Beam	None	A36	Typical
22	SF1-H2-1	SF1-3	SF1-1			Main Horizontal	Beam	None	A36	Typical
23	FF-H2-1	FF3	FF1			Main Horizontal	Beam	None	A36	Typical
24	SF2-H2-3	SF2-3	SF2-1			Main Horizontal	Beam	None	A36	Typical
25	MP-3	N49	N47			Mount Pipes	Column	None	A53 Gr.B	Typical
26	MP-1	N48	N46			Mount Pipes	Column	None	A53 Gr.B	Typical
27	MP-2	N50	N51			Mount Pipes	Column	None	A53 Gr.B	Typical



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**Member Primary Data (Continued)**

	Label	I Joint	J Joint	K Joint	Rotate[d...]	Section/Shape	Type	Design List	Material	Design Rul...
28	MP-2B	N52	N53			Mount Pipes	Column	None	A53 Gr.B	Typical
29	M29	N54	N55			RIGID	None	None	RIGID	Typical
30	M30	N56	N57			RIGID	None	None	RIGID	Typical
31	MP-9	N128	N126A			Mount Pipes	Column	None	A53 Gr.B	Typical
32	MP-7	N127	N125A			Mount Pipes	Column	None	A53 Gr.B	Typical
33	MP-8	N65	N66			Mount Pipes	Column	None	A53 Gr.B	Typical
34	MP-8B	N67	N68			Mount Pipes	Column	None	A53 Gr.B	Typical
35	M35	N69	N70			RIGID	None	None	RIGID	Typical
36	M36	N71	N72			RIGID	None	None	RIGID	Typical
37	MP-6	N120A	N118B			Mount Pipes	Column	None	A53 Gr.B	Typical
38	MP-4	N119A	N117B			Mount Pipes	Column	None	A53 Gr.B	Typical
39	MP-5	N80	N81			Mount Pipes	Column	None	A53 Gr.B	Typical
40	MP-5B	N82	N83			Mount Pipes	Column	None	A53 Gr.B	Typical
41	M41	N84	N85			RIGID	None	None	RIGID	Typical
42	M42	N86	N87			RIGID	None	None	RIGID	Typical
43	FF-SR	N91	N89			HRK12-3HD (a)	Beam	None	A53 Gr.B	Typical
44	SF2-SR	N93	N88			HRK12-3HD (a)	Beam	None	A53 Gr.B	Typical
45	SF1-SR	N92	N90			HRK12-3HD (a)	Beam	None	A53 Gr.B	Typical
46	SRB-1	N95	N98			HRK12-3HD (b)	Beam	None	A53 Gr.B	Typical
47	SRB-2	N94	N97			HRK12-3HD (b)	Beam	None	A53 Gr.B	Typical
48	SRB-3	N96	N99			HRK12-3HD (b)	Beam	None	A53 Gr.B	Typical
49	SRC-1	N101	N115A		180	HRK12-3HD (c)	Beam	None	A36 Gr.36	Typical
50	SRC-2	N100	N118A		90	HRK12-3HD (c)	Beam	None	A36 Gr.36	Typical
51	SRC-3	N117A	N116A		90	HRK12-3HD (c)	Beam	None	A36 Gr.36	Typical

**Member Advanced Data**

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical Defl	Ratio Options	Analysis ...	Inactive	Seismi...
1	SA1						Yes	Default			None
2	SA2						Yes				None
3	SA3						Yes				None
4	GS11	BenPIN	BenPIN				Yes				None
5	GS12	BenPIN	BenPIN				Yes				None
6	GS13	BenPIN	BenPIN				Yes				None
7	FF-H2-3	BenPIN	BenPIN				Yes	Default			None
8	SF1-H2-3	BenPIN	BenPIN				Yes	Default			None
9	SF2-H2-1	BenPIN	BenPIN				Yes	Default			None
10	GS14	BenPIN	BenPIN				Yes				None
11	GS15	BenPIN	BenPIN				Yes				None
12	GS16	BenPIN	BenPIN				Yes				None
13	GS17	BenPIN	BenPIN				Yes				None
14	GS18	BenPIN	BenPIN				Yes				None
15	GS19	BenPIN	BenPIN				Yes				None
16	GSC2						Yes				None
17	GSC1						Yes	Default			None
18	GSC3						Yes				None
19	SF1-H2-2	BenPIN	BenPIN				Yes				None
20	FF-H2-2	BenPIN	BenPIN				Yes				None
21	SF2-H2-2	BenPIN	BenPIN				Yes				None
22	SF1-H2-1	BenPIN	BenPIN				Yes	Default			None
23	FF-H2-1	BenPIN	BenPIN				Yes	Default			None
24	SF2-H2-3	BenPIN	BenPIN				Yes	Default			None
25	MP-3						Yes	** NA **			None
26	MP-1						Yes	** NA **			None
27	MP-2						Yes	** NA **			None
28	MP-2B						Yes	** NA **			None



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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**Member Advanced Data (Continued)**

Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical Defl	Ratio	Options	Analysis	Inactive	Seismi...
29	M29					Yes	** NA **				None
30	M30					Yes	** NA **				None
31	MP-9					Yes	** NA **				None
32	MP-7					Yes	** NA **				None
33	MP-8					Yes	** NA **				None
34	MP-8B					Yes	** NA **				None
35	M35					Yes	** NA **				None
36	M36					Yes	** NA **				None
37	MP-6					Yes	** NA **				None
38	MP-4					Yes	** NA **				None
39	MP-5					Yes	** NA **				None
40	MP-5B					Yes	** NA **				None
41	M41					Yes	** NA **				None
42	M42					Yes	** NA **				None
43	FF-SR					Yes					None
44	SF2-SR					Yes					None
45	SF1-SR					Yes					None
46	SRB-1	BenPIN	BenPIN			Yes	Default				None
47	SRB-2	BenPIN	BenPIN			Yes	Default				None
48	SRB-3	BenPIN	BenPIN			Yes	Default				None
49	SRC-1					Yes	Default				None
50	SRC-2					Yes	Default				None
51	SRC-3					Yes	Default				None

**Hot Rolled Steel Design Parameters**

Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torque[ft]	Kyy	Kzz	Cb	Functi...
1	SA1	Support Arms	4.25		Segment			2.1	2.1		Lateral
2	SA2	Support Arms	4.25		Segment			2.1	2.1		Lateral
3	SA3	Support Arms	4.25		Segment			2.1	2.1		Lateral
4	GSC2	Bottom Connect...	.433					1	1		Lateral
5	GSC1	Bottom Connect...	.433					1	1		Lateral
6	GSC3	Bottom Connect...	.433					1	1		Lateral
7	MP-3	Mount Pipes	6	Segment	Segment			2.1	2.1		Lateral
8	MP-1	Mount Pipes	6	Segment	Segment			2.1	2.1		Lateral
9	MP-2	Mount Pipes	7	Segment	Segment			2.1	2.1		Lateral
10	MP-2B	Mount Pipes	3	Segment	Segment			2.1	2.1		Lateral
11	MP-9	Mount Pipes	6	Segment	Segment			2.1	2.1		Lateral
12	MP-7	Mount Pipes	6	Segment	Segment			2.1	2.1		Lateral
13	MP-8	Mount Pipes	7	Segment	Segment			2.1	2.1		Lateral
14	MP-8B	Mount Pipes	3	Segment	Segment			2.1	2.1		Lateral
15	MP-6	Mount Pipes	6	Segment	Segment			2.1	2.1		Lateral
16	MP-4	Mount Pipes	6	Segment	Segment			2.1	2.1		Lateral
17	MP-5	Mount Pipes	7	Segment	Segment			2.1	2.1		Lateral
18	MP-5B	Mount Pipes	3	Segment	Segment			2.1	2.1		Lateral
19	FF-SR	HRK12-3HD (a)	12.5	4.5				2.1	2.1		Lateral
20	SF2-SR	HRK12-3HD (a)	12.5	4.5				2.1	2.1		Lateral
21	SF1-SR	HRK12-3HD (a)	12.5	4.5				2.1	2.1		Lateral
22	SRB-1	HRK12-3HD (b)	4.933					1	1		Lateral
23	SRB-2	HRK12-3HD (b)	4.933					1	1		Lateral
24	SRB-3	HRK12-3HD (b)	4.933					1	1		Lateral
25	SRC-1	HRK12-3HD (c)	1.5					1	1		Lateral
26	SRC-2	HRK12-3HD (c)	1.5					1	1		Lateral
27	SRC-3	HRK12-3HD (c)	1.5					1	1		Lateral



Company : Tower Engineering Professionals  
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**Cold Formed Steel Design Parameters**

Label	Shape	Length...	Lbyy[ft]	Lbzz[ft]	Lcomp to...	Lcomp bo...	L-torque[ft]	Kyy	Kzz	Cb	R	alft]	Funct...
1	GS11	Grating In...	5.04	Segment	Segment			1	1				Lateral
2	GS12	Grating In...	5.04	Segment	Segment			1	1				Lateral
3	GS13	Grating In...	5.04	Segment	Segment			1	1				Lateral
4	FF-H2-3	Main Hori...	5.25	3.44	3.44			1	1				Lateral
5	SF1-H2-3	Main Hori...	5.25	3.44	3.44			1	1				Lateral
6	SF2-H2-1	Main Hori...	5.25	3.44	3.44			1	1				Lateral
7	GS14	Grating In...	3.873	Segment	Segment			1	1				Lateral
8	GS15	Grating In...	3.873	Segment	Segment			1	1				Lateral
9	GS16	Grating In...	3.873	Segment	Segment			1	1				Lateral
10	GS17	Grating In...	2.351	Segment	Segment			1	1				Lateral
11	GS18	Grating In...	2.351	Segment	Segment			1	1				Lateral
12	GS19	Grating In...	2.351	Segment	Segment			1	1				Lateral
13	SF1-H2-2	Middle Ho...	3.286					1	1				Lateral
14	FF-H2-2	Middle Ho...	3.286					1	1				Lateral
15	SF2-H2-2	Middle Ho...	3.286					1	1				Lateral
16	SF1-H2-1	Main Hori...	5.25	3.44	3.44			1	1				Lateral
17	FF-H2-1	Main Hori...	5.25	3.44	3.44			1	1				Lateral
18	SF2-H2-3	Main Hori...	5.25	3.44	3.44			1	1				Lateral

**Basic Load Cases**

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
1	Dead	None		-1		36	45	3
2	0 Wind - No Ice	None				72	90	
3	30 Wind - No Ice	None				72	90	
4	45 Wind - No Ice	None				72	90	
5	60 Wind - No Ice	None				72	90	
6	90 Wind - No Ice	None				36	45	
7	120 Wind - No Ice	None				72	90	
8	135 Wind - No Ice	None				72	90	
9	150 Wind - No Ice	None				72	90	
10	180 Wind - No Ice	None				36	45	
11	210 Wind - No Ice	None				72	90	
12	225 Wind - No Ice	None				72	90	
13	240 Wind - No Ice	None				72	90	
14	270 Wind - No Ice	None				36	45	
15	300 Wind - No Ice	None				72	90	
16	315 Wind - No Ice	None				72	90	
17	330 Wind - No Ice	None				72	90	
18	Ice Weight	None				36	45	3
19	0 Wind - Ice	None				36	45	
20	30 Wind - Ice	None				72	90	
21	45 Wind - Ice	None				72	90	
22	60 Wind - Ice	None				72	90	
23	90 Wind - Ice	None				36	45	
24	120 Wind - Ice	None				72	90	
25	135 Wind - Ice	None				72	90	
26	150 Wind - Ice	None				72	90	
27	180 Wind - Ice	None				36	45	
28	210 Wind - Ice	None				72	90	
29	225 Wind - Ice	None				72	90	
30	240 Wind - Ice	None				72	90	
31	270 Wind - Ice	None				36	45	
32	300 Wind - Ice	None				72	90	
33	315 Wind - Ice	None				72	90	





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

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

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

1	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Y	-02	1.5
2	MP-1	Y	-016	3
3	MP-1	Y	-013	3
4	MP-1	Y	-002	4
5	MP-2	Y	-03	.5
6	MP-3	Y	-04	.25
7	MP-3	Y	-071	2
8	MP-3	Y	-072	2
9	MP-4	Y	-02	1.5
10	MP-4	Y	-016	3
11	MP-4	Y	-013	3
12	MP-4	Y	-002	4
13	MP-5	Y	-03	.5
14	MP-6	Y	-04	.25
15	MP-6	Y	-071	2
16	MP-6	Y	-072	2
17	MP-7	Y	-02	1.5
18	MP-7	Y	-016	3
19	MP-7	Y	-013	3
20	MP-7	Y	-002	4
21	MP-8	Y	-03	.5
22	MP-9	Y	-04	.25
23	MP-9	Y	-071	2
24	MP-9	Y	-072	2
25	SA1	Y	-033	1
26	SA2	Y	-033	1
27	SA3	Y	-033	1
28	MP-1	Y	-02	5.5
29	MP-2	Y	-03	6
30	MP-3	Y	-04	5.75
31	MP-4	Y	-02	5.5
32	MP-5	Y	-03	6
33	MP-6	Y	-04	5.75
34	MP-7	Y	-02	5.5
35	MP-8	Y	-03	6
36	MP-9	Y	-04	5.75

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

1	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-111	1.5
2	MP-1	X	-023	3
3	MP-1	X	-03	3
4	MP-1	X	-011	4
5	MP-2	X	-25	.5
6	MP-3	X	-26	.25
7	MP-3	X	-081	2
8	MP-3	X	-067	2
9	MP-4	X	-075	1.5
10	MP-4	X	-019	3
11	MP-4	X	-016	3
12	MP-4	X	-01	4



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

13	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
13	MP-5	X	-132	.5
14	MP-6	X	-151	.25
15	MP-6	X	-063	2
16	MP-6	X	-058	2
17	MP-7	X	-075	1.5
18	MP-7	X	-019	3
19	MP-7	X	-016	3
20	MP-7	X	-01	4
21	MP-8	X	-132	.5
22	MP-9	X	-151	.25
23	MP-9	X	-063	2
24	MP-9	X	-058	2
25	SA1	X	-05	1
26	SA2	X	-05	1
27	SA3	X	-05	1
28	MP-1	X	-111	5.5
29	MP-2	X	-25	6
30	MP-3	X	-26	5.75
31	MP-4	X	-075	5.5
32	MP-5	X	-132	6
33	MP-6	X	-151	5.75
34	MP-7	X	-075	5.5
35	MP-8	X	-132	6
36	MP-9	X	-151	5.75

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

1	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-086	1.5
2	MP-1	X	-019	3
3	MP-1	X	-022	3
4	MP-1	X	-009	4
5	MP-2	X	-183	.5
6	MP-3	X	-194	.25
7	MP-3	X	-065	2
8	MP-3	X	-056	2
9	MP-4	X	-055	1.5
10	MP-4	X	-016	3
11	MP-4	X	-01	3
12	MP-4	X	-008	4
13	MP-5	X	-081	.5
14	MP-6	X	-1	.25
15	MP-6	X	-05	2
16	MP-6	X	-048	2
17	MP-7	X	-086	1.5
18	MP-7	X	-019	3
19	MP-7	X	-022	3
20	MP-7	X	-009	4
21	MP-8	X	-183	.5
22	MP-9	X	-194	.25
23	MP-9	X	-065	2
24	MP-9	X	-056	2
25	SA1	X	-043	1
26	SA2	X	-043	1
27	SA3	X	-043	1
28	MP-1	X	-086	5.5
29	MP-2	X	-183	6



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
30	MP-3	X	-194	5.75
31	MP-4	X	-055	5.5
32	MP-5	X	-081	6
33	MP-6	X	-1	5.75
34	MP-7	X	-086	5.5
35	MP-8	X	-183	6
36	MP-9	X	-194	5.75
37	MP-1	Z	-05	1.5
38	MP-1	Z	-011	3
39	MP-1	Z	-013	3
40	MP-1	Z	-005	4
41	MP-2	Z	-105	.5
42	MP-3	Z	-112	.25
43	MP-3	Z	-037	2
44	MP-3	Z	-032	2
45	MP-4	Z	-032	1.5
46	MP-4	Z	-009	3
47	MP-4	Z	-005	3
48	MP-4	Z	-005	4
49	MP-5	Z	-046	.5
50	MP-6	Z	-057	.25
51	MP-6	Z	-029	2
52	MP-6	Z	-028	2
53	MP-7	Z	-05	1.5
54	MP-7	Z	-011	3
55	MP-7	Z	-013	3
56	MP-7	Z	-005	4
57	MP-8	Z	-105	.5
58	MP-9	Z	-112	.25
59	MP-9	Z	-037	2
60	MP-9	Z	-032	2
61	SA1	Z	-025	1
62	SA2	Z	-025	1
63	SA3	Z	-025	1
64	MP-1	Z	-05	5.5
65	MP-2	Z	-105	6
66	MP-3	Z	-112	5.75
67	MP-4	Z	-032	5.5
68	MP-5	Z	-046	6
69	MP-6	Z	-057	5.75
70	MP-7	Z	-05	5.5
71	MP-8	Z	-105	6
72	MP-9	Z	-112	5.75

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-062	1.5
2	MP-1	X	-014	3
3	MP-1	X	-015	3
4	MP-1	X	-007	4
5	MP-2	X	-121	.5
6	MP-3	X	-133	.25
7	MP-3	X	-049	2
8	MP-3	X	-043	2
9	MP-4	X	-047	1.5
10	MP-4	X	-013	3



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
11	MP-4	X	-009	3
12	MP-4	X	-007	4
13	MP-5	X	-073	.5
14	MP-6	X	-088	.25
15	MP-6	X	-042	2
16	MP-6	X	-04	2
17	MP-7	X	-076	1.5
18	MP-7	X	-016	3
19	MP-7	X	-02	3
20	MP-7	X	-008	4
21	MP-8	X	-169	.5
22	MP-9	X	-177	.25
23	MP-9	X	-056	2
24	MP-9	X	-047	2
25	SA1	X	-035	1
26	SA2	X	-035	1
27	SA3	X	-035	1
28	MP-1	X	-062	5.5
29	MP-2	X	-121	6
30	MP-3	X	-133	5.75
31	MP-4	X	-047	5.5
32	MP-5	X	-073	6
33	MP-6	X	-088	5.75
34	MP-7	X	-076	5.5
35	MP-8	X	-169	6
36	MP-9	X	-177	5.75
37	MP-1	Z	-062	1.5
38	MP-1	Z	-014	3
39	MP-1	Z	-015	3
40	MP-1	Z	-007	4
41	MP-2	Z	-121	.5
42	MP-3	Z	-133	.25
43	MP-3	Z	-049	2
44	MP-3	Z	-043	2
45	MP-4	Z	-047	1.5
46	MP-4	Z	-013	3
47	MP-4	Z	-009	3
48	MP-4	Z	-007	4
49	MP-5	Z	-073	.5
50	MP-6	Z	-088	.25
51	MP-6	Z	-042	2
52	MP-6	Z	-04	2
53	MP-7	Z	-076	1.5
54	MP-7	Z	-016	3
55	MP-7	Z	-02	3
56	MP-7	Z	-008	4
57	MP-8	Z	-169	.5
58	MP-9	Z	-177	.25
59	MP-9	Z	-056	2
60	MP-9	Z	-047	2
61	SA1	Z	-035	1
62	SA2	Z	-035	1
63	SA3	Z	-035	1
64	MP-1	Z	-062	5.5
65	MP-2	Z	-121	6
66	MP-3	Z	-133	5.75
67	MP-4	Z	-047	5.5



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
68	MP-5	Z	-0.73	6
69	MP-6	Z	-0.88	5.75
70	MP-7	Z	-0.76	5.5
71	MP-8	Z	-1.69	6
72	MP-9	Z	-1.77	5.75

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-0.38	1.5
2	MP-1	X	-0.01	3
3	MP-1	X	-0.008	3
4	MP-1	X	-0.005	4
5	MP-2	X	-0.066	.5
6	MP-3	X	-0.076	.25
7	MP-3	X	-0.032	2
8	MP-3	X	-0.029	2
9	MP-4	X	-0.038	1.5
10	MP-4	X	-0.01	3
11	MP-4	X	-0.008	3
12	MP-4	X	-0.005	4
13	MP-5	X	-0.066	.5
14	MP-6	X	-0.076	.25
15	MP-6	X	-0.032	2
16	MP-6	X	-0.029	2
17	MP-7	X	-0.056	1.5
18	MP-7	X	-0.011	3
19	MP-7	X	-0.015	3
20	MP-7	X	-0.006	4
21	MP-8	X	-0.125	.5
22	MP-9	X	-0.13	.25
23	MP-9	X	-0.04	2
24	MP-9	X	-0.034	2
25	SA1	X	-0.025	1
26	SA2	X	-0.025	1
27	SA3	X	-0.025	1
28	MP-1	X	-0.038	5.5
29	MP-2	X	-0.066	6
30	MP-3	X	-0.076	5.75
31	MP-4	X	-0.038	5.5
32	MP-5	X	-0.066	6
33	MP-6	X	-0.076	5.75
34	MP-7	X	-0.056	5.5
35	MP-8	X	-0.125	6
36	MP-9	X	-0.13	5.75
37	MP-1	Z	-0.065	1.5
38	MP-1	Z	-0.017	3
39	MP-1	Z	-0.014	3
40	MP-1	Z	-0.009	4
41	MP-2	Z	-0.115	.5
42	MP-3	Z	-0.131	.25
43	MP-3	Z	-0.055	2
44	MP-3	Z	-0.051	2
45	MP-4	Z	-0.065	1.5
46	MP-4	Z	-0.017	3
47	MP-4	Z	-0.014	3
48	MP-4	Z	-0.009	4



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
49	MP-5	Z	-1.15	.5
50	MP-6	Z	-1.31	.25
51	MP-6	Z	-0.055	2
52	MP-6	Z	-0.051	2
53	MP-7	Z	-0.096	1.5
54	MP-7	Z	-0.02	3
55	MP-7	Z	-0.026	3
56	MP-7	Z	-0.01	4
57	MP-8	Z	-0.217	.5
58	MP-9	Z	-0.225	.25
59	MP-9	Z	-0.07	2
60	MP-9	Z	-0.058	2
61	SA1	Z	-0.043	1
62	SA2	Z	-0.043	1
63	SA3	Z	-0.043	1
64	MP-1	Z	-0.065	5.5
65	MP-2	Z	-0.115	6
66	MP-3	Z	-0.131	5.75
67	MP-4	Z	-0.065	5.5
68	MP-5	Z	-0.115	6
69	MP-6	Z	-0.131	5.75
70	MP-7	Z	-0.096	5.5
71	MP-8	Z	-0.217	6
72	MP-9	Z	-0.225	5.75

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Z	-0.063	1.5
2	MP-1	Z	-0.018	3
3	MP-1	Z	-0.011	3
4	MP-1	Z	-0.009	4
5	MP-2	Z	-0.093	.5
6	MP-3	Z	-0.115	.25
7	MP-3	Z	-0.058	2
8	MP-3	Z	-0.055	2
9	MP-4	Z	-0.099	1.5
10	MP-4	Z	-0.022	3
11	MP-4	Z	-0.025	3
12	MP-4	Z	-0.011	4
13	MP-5	Z	-0.211	.5
14	MP-6	Z	-0.224	.25
15	MP-6	Z	-0.075	2
16	MP-6	Z	-0.064	2
17	MP-7	Z	-0.099	1.5
18	MP-7	Z	-0.022	3
19	MP-7	Z	-0.025	3
20	MP-7	Z	-0.011	4
21	MP-8	Z	-0.211	.5
22	MP-9	Z	-0.224	.25
23	MP-9	Z	-0.075	2
24	MP-9	Z	-0.064	2
25	SA1	Z	-0.05	1
26	SA2	Z	-0.05	1
27	SA3	Z	-0.05	1
28	MP-1	Z	-0.063	5.5
29	MP-2	Z	-0.093	6





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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
30	MP-3	Z	-1.15	5.75
31	MP-4	Z	-0.99	5.5
32	MP-5	Z	-0.211	6
33	MP-6	Z	-0.224	5.75
34	MP-7	Z	-0.99	5.5
35	MP-8	Z	-0.211	6
36	MP-9	Z	-0.224	5.75

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.038	1.5
2	MP-1	X	.01	3
3	MP-1	X	.008	3
4	MP-1	X	.005	4
5	MP-2	X	.066	.5
6	MP-3	X	.076	.25
7	MP-3	X	.032	2
8	MP-3	X	.029	2
9	MP-4	X	.056	1.5
10	MP-4	X	.011	3
11	MP-4	X	.015	3
12	MP-4	X	.006	4
13	MP-5	X	.125	.5
14	MP-6	X	.13	.25
15	MP-6	X	.04	2
16	MP-6	X	.034	2
17	MP-7	X	.038	1.5
18	MP-7	X	.01	3
19	MP-7	X	.008	3
20	MP-7	X	.005	4
21	MP-8	X	.066	.5
22	MP-9	X	.076	.25
23	MP-9	X	.032	2
24	MP-9	X	.029	2
25	SA1	X	.025	1
26	SA2	X	.025	1
27	SA3	X	.025	1
28	MP-1	X	.038	5.5
29	MP-2	X	.066	6
30	MP-3	X	.076	5.75
31	MP-4	X	.056	5.5
32	MP-5	X	.125	6
33	MP-6	X	.13	5.75
34	MP-7	X	.038	5.5
35	MP-8	X	.066	6
36	MP-9	X	.076	5.75
37	MP-1	Z	-0.065	1.5
38	MP-1	Z	-0.017	3
39	MP-1	Z	-0.014	3
40	MP-1	Z	-0.009	4
41	MP-2	Z	-0.115	.5
42	MP-3	Z	-0.131	.25
43	MP-3	Z	-0.055	2
44	MP-3	Z	-0.051	2
45	MP-4	Z	-0.096	1.5
46	MP-4	Z	-0.02	3



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
47	MP-4	Z	-0.026	3
48	MP-4	Z	-0.01	4
49	MP-5	Z	-0.217	.5
50	MP-6	Z	-0.225	.25
51	MP-6	Z	-0.07	2
52	MP-6	Z	-0.058	2
53	MP-7	Z	-0.065	1.5
54	MP-7	Z	-0.017	3
55	MP-7	Z	-0.014	3
56	MP-7	Z	-0.009	4
57	MP-8	Z	-0.115	.5
58	MP-9	Z	-0.131	.25
59	MP-9	Z	-0.055	2
60	MP-9	Z	-0.051	2
61	SA1	Z	-0.043	1
62	SA2	Z	-0.043	1
63	SA3	Z	-0.043	1
64	MP-1	Z	-0.065	5.5
65	MP-2	Z	-0.115	6
66	MP-3	Z	-0.131	5.75
67	MP-4	Z	-0.096	5.5
68	MP-5	Z	-0.217	6
69	MP-6	Z	-0.225	5.75
70	MP-7	Z	-0.065	5.5
71	MP-8	Z	-0.115	6
72	MP-9	Z	-0.131	5.75

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.062	1.5
2	MP-1	X	.014	3
3	MP-1	X	.015	3
4	MP-1	X	.007	4
5	MP-2	X	.121	.5
6	MP-3	X	.133	.25
7	MP-3	X	.049	2
8	MP-3	X	.043	2
9	MP-4	X	.076	1.5
10	MP-4	X	.016	3
11	MP-4	X	.02	3
12	MP-4	X	.008	4
13	MP-5	X	.169	.5
14	MP-6	X	.177	.25
15	MP-6	X	.056	2
16	MP-6	X	.047	2
17	MP-7	X	.047	1.5
18	MP-7	X	.013	3
19	MP-7	X	.009	3
20	MP-7	X	.007	4
21	MP-8	X	.073	.5
22	MP-9	X	.088	.25
23	MP-9	X	.042	2
24	MP-9	X	.04	2
25	SA1	X	.035	1
26	SA2	X	.035	1
27	SA3	X	.035	1



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
28	MP-1	X	.062	5.5
29	MP-2	X	.121	6
30	MP-3	X	.133	5.75
31	MP-4	X	.076	5.5
32	MP-5	X	.169	6
33	MP-6	X	.177	5.75
34	MP-7	X	.047	5.5
35	MP-8	X	.073	6
36	MP-9	X	.088	5.75
37	MP-1	Z	-.062	1.5
38	MP-1	Z	-.014	3
39	MP-1	Z	-.015	3
40	MP-1	Z	-.007	4
41	MP-2	Z	-.121	.5
42	MP-3	Z	-.133	.25
43	MP-3	Z	-.049	2
44	MP-3	Z	-.043	2
45	MP-4	Z	-.076	1.5
46	MP-4	Z	-.016	3
47	MP-4	Z	-.02	3
48	MP-4	Z	-.008	4
49	MP-5	Z	-.169	.5
50	MP-6	Z	-.177	.25
51	MP-6	Z	-.056	2
52	MP-6	Z	-.047	2
53	MP-7	Z	-.047	1.5
54	MP-7	Z	-.013	3
55	MP-7	Z	-.009	3
56	MP-7	Z	-.007	4
57	MP-8	Z	-.073	.5
58	MP-9	Z	-.088	.25
59	MP-9	Z	-.042	2
60	MP-9	Z	-.04	2
61	SA1	Z	-.035	1
62	SA2	Z	-.035	1
63	SA3	Z	-.035	1
64	MP-1	Z	-.062	5.5
65	MP-2	Z	-.121	6
66	MP-3	Z	-.133	5.75
67	MP-4	Z	-.076	5.5
68	MP-5	Z	-.169	6
69	MP-6	Z	-.177	5.75
70	MP-7	Z	-.047	5.5
71	MP-8	Z	-.073	6
72	MP-9	Z	-.088	5.75

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.086	1.5
2	MP-1	X	.019	3
3	MP-1	X	.022	3
4	MP-1	X	.009	4
5	MP-2	X	.183	.5
6	MP-3	X	.194	.25
7	MP-3	X	.065	2
8	MP-3	X	.056	2



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
9	MP-4	X	.086	1.5
10	MP-4	X	.019	3
11	MP-4	X	.022	3
12	MP-4	X	.009	4
13	MP-5	X	.183	.5
14	MP-6	X	.194	.25
15	MP-6	X	.065	2
16	MP-6	X	.056	2
17	MP-7	X	.055	1.5
18	MP-7	X	.016	3
19	MP-7	X	.01	3
20	MP-7	X	.008	4
21	MP-8	X	.081	.5
22	MP-9	X	.1	.25
23	MP-9	X	.05	2
24	MP-9	X	.048	2
25	SA1	X	.043	1
26	SA2	X	.043	1
27	SA3	X	.043	1
28	MP-1	X	.086	5.5
29	MP-2	X	.183	6
30	MP-3	X	.194	5.75
31	MP-4	X	.086	5.5
32	MP-5	X	.183	6
33	MP-6	X	.194	5.75
34	MP-7	X	.055	5.5
35	MP-8	X	.081	6
36	MP-9	X	.1	5.75
37	MP-1	Z	-.05	1.5
38	MP-1	Z	-.011	3
39	MP-1	Z	-.013	3
40	MP-1	Z	-.005	4
41	MP-2	Z	-.105	.5
42	MP-3	Z	-.112	.25
43	MP-3	Z	-.037	2
44	MP-3	Z	-.032	2
45	MP-4	Z	-.05	1.5
46	MP-4	Z	-.011	3
47	MP-4	Z	-.013	3
48	MP-4	Z	-.005	4
49	MP-5	Z	-.105	.5
50	MP-6	Z	-.112	.25
51	MP-6	Z	-.037	2
52	MP-6	Z	-.032	2
53	MP-7	Z	-.032	1.5
54	MP-7	Z	-.009	3
55	MP-7	Z	-.005	3
56	MP-7	Z	-.005	4
57	MP-8	Z	-.046	.5
58	MP-9	Z	-.057	.25
59	MP-9	Z	-.029	2
60	MP-9	Z	-.028	2
61	SA1	Z	-.025	1
62	SA2	Z	-.025	1
63	SA3	Z	-.025	1
64	MP-1	Z	-.05	5.5
65	MP-2	Z	-.105	6





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

	Member Label	Direction	Magnitude[k.k-ft]	Location(ft.%)
66	MP-3	Z	-1.12	5.75
67	MP-4	Z	-.05	5.5
68	MP-5	Z	-.105	6
69	MP-6	Z	-.112	5.75
70	MP-7	Z	-.032	5.5
71	MP-8	Z	-.046	6
72	MP-9	Z	-.057	5.75

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

	Member Label	Direction	Magnitude[k.k-ft]	Location(ft.%)
1	MP-1	X	.111	1.5
2	MP-1	X	.023	3
3	MP-1	X	.03	3
4	MP-1	X	.011	4
5	MP-2	X	.25	.5
6	MP-3	X	.26	.25
7	MP-3	X	.081	2
8	MP-3	X	.067	2
9	MP-4	X	.075	1.5
10	MP-4	X	.019	3
11	MP-4	X	.016	3
12	MP-4	X	.01	4
13	MP-5	X	.132	.5
14	MP-6	X	.151	.25
15	MP-6	X	.063	2
16	MP-6	X	.058	2
17	MP-7	X	.075	1.5
18	MP-7	X	.019	3
19	MP-7	X	.016	3
20	MP-7	X	.01	4
21	MP-8	X	.132	.5
22	MP-9	X	.151	.25
23	MP-9	X	.063	2
24	MP-9	X	.058	2
25	SA1	X	.05	1
26	SA2	X	.05	1
27	SA3	X	.05	1
28	MP-1	X	.111	5.5
29	MP-2	X	.25	6
30	MP-3	X	.26	5.75
31	MP-4	X	.075	5.5
32	MP-5	X	.132	6
33	MP-6	X	.151	5.75
34	MP-7	X	.075	5.5
35	MP-8	X	.132	6
36	MP-9	X	.151	5.75

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

	Member Label	Direction	Magnitude[k.k-ft]	Location(ft.%)
1	MP-1	X	.086	1.5
2	MP-1	X	.019	3
3	MP-1	X	.022	3
4	MP-1	X	.009	4
5	MP-2	X	.183	.5
6	MP-3	X	.194	.25
7	MP-3	X	.065	2



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

	Member Label	Direction	Magnitude[k.k-ft]	Location(ft.%)
8	MP-3	X	.056	2
9	MP-4	X	.055	1.5
10	MP-4	X	.016	3
11	MP-4	X	.01	3
12	MP-4	X	.008	4
13	MP-5	X	.081	.5
14	MP-6	X	.1	.25
15	MP-6	X	.05	2
16	MP-6	X	.048	2
17	MP-7	X	.086	1.5
18	MP-7	X	.019	3
19	MP-7	X	.022	3
20	MP-7	X	.009	4
21	MP-8	X	.183	.5
22	MP-9	X	.194	.25
23	MP-9	X	.065	2
24	MP-9	X	.056	2
25	SA1	X	.043	1
26	SA2	X	.043	1
27	SA3	X	.043	1
28	MP-1	X	.086	5.5
29	MP-2	X	.183	6
30	MP-3	X	.194	5.75
31	MP-4	X	.055	5.5
32	MP-5	X	.081	6
33	MP-6	X	.1	5.75
34	MP-7	X	.086	5.5
35	MP-8	X	.183	6
36	MP-9	X	.194	5.75
37	MP-1	Z	.05	1.5
38	MP-1	Z	.011	3
39	MP-1	Z	.013	3
40	MP-1	Z	.005	4
41	MP-2	Z	.105	.5
42	MP-3	Z	.112	.25
43	MP-3	Z	.037	2
44	MP-3	Z	.032	2
45	MP-4	Z	.032	1.5
46	MP-4	Z	.009	3
47	MP-4	Z	.005	3
48	MP-4	Z	.005	4
49	MP-5	Z	.046	.5
50	MP-6	Z	.057	.25
51	MP-6	Z	.029	2
52	MP-6	Z	.028	2
53	MP-7	Z	.05	1.5
54	MP-7	Z	.011	3
55	MP-7	Z	.013	3
56	MP-7	Z	.005	4
57	MP-8	Z	.105	.5
58	MP-9	Z	.112	.25
59	MP-9	Z	.037	2
60	MP-9	Z	.032	2
61	SA1	Z	.025	1
62	SA2	Z	.025	1
63	SA3	Z	.025	1
64	MP-1	Z	.05	5.5



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
65	MP-2	Z	.105	6
66	MP-3	Z	.112	5.75
67	MP-4	Z	.032	5.5
68	MP-5	Z	.046	6
69	MP-6	Z	.057	5.75
70	MP-7	Z	.05	5.5
71	MP-8	Z	.105	6
72	MP-9	Z	.112	5.75

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.062	1.5
2	MP-1	X	.014	3
3	MP-1	X	.015	3
4	MP-1	X	.007	4
5	MP-2	X	.121	.5
6	MP-3	X	.133	.25
7	MP-3	X	.049	2
8	MP-3	X	.043	2
9	MP-4	X	.047	1.5
10	MP-4	X	.013	3
11	MP-4	X	.009	3
12	MP-4	X	.007	4
13	MP-5	X	.073	.5
14	MP-6	X	.088	.25
15	MP-6	X	.042	2
16	MP-6	X	.04	2
17	MP-7	X	.076	1.5
18	MP-7	X	.016	3
19	MP-7	X	.02	3
20	MP-7	X	.008	4
21	MP-8	X	.169	.5
22	MP-9	X	.177	.25
23	MP-9	X	.056	2
24	MP-9	X	.047	2
25	SA1	X	.035	1
26	SA2	X	.035	1
27	SA3	X	.035	1
28	MP-1	X	.062	5.5
29	MP-2	X	.121	6
30	MP-3	X	.133	5.75
31	MP-4	X	.047	5.5
32	MP-5	X	.073	6
33	MP-6	X	.088	5.75
34	MP-7	X	.076	5.5
35	MP-8	X	.169	6
36	MP-9	X	.177	5.75
37	MP-1	Z	.062	1.5
38	MP-1	Z	.014	3
39	MP-1	Z	.015	3
40	MP-1	Z	.007	4
41	MP-2	Z	.121	.5
42	MP-3	Z	.133	.25
43	MP-3	Z	.049	2
44	MP-3	Z	.043	2
45	MP-4	Z	.047	1.5



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
46	MP-4	Z	.013	3
47	MP-4	Z	.009	3
48	MP-4	Z	.007	4
49	MP-5	Z	.073	.5
50	MP-6	Z	.088	.25
51	MP-6	Z	.042	2
52	MP-6	Z	.04	2
53	MP-7	Z	.076	1.5
54	MP-7	Z	.016	3
55	MP-7	Z	.02	3
56	MP-7	Z	.008	4
57	MP-8	Z	.169	.5
58	MP-9	Z	.177	.25
59	MP-9	Z	.056	2
60	MP-9	Z	.047	2
61	SA1	Z	.035	1
62	SA2	Z	.035	1
63	SA3	Z	.035	1
64	MP-1	Z	.062	5.5
65	MP-2	Z	.121	6
66	MP-3	Z	.133	5.75
67	MP-4	Z	.047	5.5
68	MP-5	Z	.073	6
69	MP-6	Z	.088	5.75
70	MP-7	Z	.076	5.5
71	MP-8	Z	.169	6
72	MP-9	Z	.177	5.75

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.038	1.5
2	MP-1	X	.01	3
3	MP-1	X	.008	3
4	MP-1	X	.005	4
5	MP-2	X	.066	.5
6	MP-3	X	.076	.25
7	MP-3	X	.032	2
8	MP-3	X	.029	2
9	MP-4	X	.038	1.5
10	MP-4	X	.01	3
11	MP-4	X	.008	3
12	MP-4	X	.005	4
13	MP-5	X	.066	.5
14	MP-6	X	.076	.25
15	MP-6	X	.032	2
16	MP-6	X	.029	2
17	MP-7	X	.056	1.5
18	MP-7	X	.011	3
19	MP-7	X	.015	3
20	MP-7	X	.006	4
21	MP-8	X	.125	.5
22	MP-9	X	.13	.25
23	MP-9	X	.04	2
24	MP-9	X	.034	2
25	SA1	X	.025	1
26	SA2	X	.025	1



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
27	SA3	X	.025	1
28	MP-1	X	.038	5.5
29	MP-2	X	.066	6
30	MP-3	X	.076	5.75
31	MP-4	X	.038	5.5
32	MP-5	X	.066	6
33	MP-6	X	.076	5.75
34	MP-7	X	.056	5.5
35	MP-8	X	.125	6
36	MP-9	X	.13	5.75
37	MP-1	Z	.065	1.5
38	MP-1	Z	.017	3
39	MP-1	Z	.014	3
40	MP-1	Z	.009	4
41	MP-2	Z	.115	.5
42	MP-3	Z	.131	.25
43	MP-3	Z	.055	2
44	MP-3	Z	.051	2
45	MP-4	Z	.065	1.5
46	MP-4	Z	.017	3
47	MP-4	Z	.014	3
48	MP-4	Z	.009	4
49	MP-5	Z	.115	.5
50	MP-6	Z	.131	.25
51	MP-6	Z	.055	2
52	MP-6	Z	.051	2
53	MP-7	Z	.096	1.5
54	MP-7	Z	.02	3
55	MP-7	Z	.026	3
56	MP-7	Z	.01	4
57	MP-8	Z	.217	.5
58	MP-9	Z	.225	.25
59	MP-9	Z	.07	2
60	MP-9	Z	.058	2
61	SA1	Z	.043	1
62	SA2	Z	.043	1
63	SA3	Z	.043	1
64	MP-1	Z	.065	5.5
65	MP-2	Z	.115	6
66	MP-3	Z	.131	5.75
67	MP-4	Z	.065	5.5
68	MP-5	Z	.115	6
69	MP-6	Z	.131	5.75
70	MP-7	Z	.096	5.5
71	MP-8	Z	.217	6
72	MP-9	Z	.225	5.75

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Z	.063	1.5
2	MP-1	Z	.018	3
3	MP-1	Z	.011	3
4	MP-1	Z	.009	4
5	MP-2	Z	.093	.5
6	MP-3	Z	.115	.25
7	MP-3	Z	.058	2



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
8	MP-3	Z	.055	2
9	MP-4	Z	.099	1.5
10	MP-4	Z	.022	3
11	MP-4	Z	.025	3
12	MP-4	Z	.011	4
13	MP-5	Z	.211	.5
14	MP-6	Z	.224	.25
15	MP-6	Z	.075	2
16	MP-6	Z	.064	2
17	MP-7	Z	.099	1.5
18	MP-7	Z	.022	3
19	MP-7	Z	.025	3
20	MP-7	Z	.011	4
21	MP-8	Z	.211	.5
22	MP-9	Z	.224	.25
23	MP-9	Z	.075	2
24	MP-9	Z	.064	2
25	SA1	Z	.05	1
26	SA2	Z	.05	1
27	SA3	Z	.05	1
28	MP-1	Z	.063	5.5
29	MP-2	Z	.093	6
30	MP-3	Z	.115	5.75
31	MP-4	Z	.099	5.5
32	MP-5	Z	.211	6
33	MP-6	Z	.224	5.75
34	MP-7	Z	.099	5.5
35	MP-8	Z	.211	6
36	MP-9	Z	.224	5.75

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.038	1.5
2	MP-1	X	-.01	3
3	MP-1	X	-.008	3
4	MP-1	X	-.005	4
5	MP-2	X	-.066	.5
6	MP-3	X	-.076	.25
7	MP-3	X	-.032	2
8	MP-3	X	-.029	2
9	MP-4	X	-.056	1.5
10	MP-4	X	-.011	3
11	MP-4	X	-.015	3
12	MP-4	X	-.006	4
13	MP-5	X	-.125	.5
14	MP-6	X	-.13	.25
15	MP-6	X	-.04	2
16	MP-6	X	-.034	2
17	MP-7	X	-.038	1.5
18	MP-7	X	-.01	3
19	MP-7	X	-.008	3
20	MP-7	X	-.005	4
21	MP-8	X	-.066	.5
22	MP-9	X	-.076	.25
23	MP-9	X	-.032	2
24	MP-9	X	-.029	2



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
25	SA1	X	-.025	1
26	SA2	X	-.025	1
27	SA3	X	-.025	1
28	MP-1	X	-.038	5.5
29	MP-2	X	-.066	6
30	MP-3	X	-.076	5.75
31	MP-4	X	-.056	5.5
32	MP-5	X	-.125	6
33	MP-6	X	-.13	5.75
34	MP-7	X	-.038	5.5
35	MP-8	X	-.066	6
36	MP-9	X	-.076	5.75
37	MP-1	Z	.065	1.5
38	MP-1	Z	.017	3
39	MP-1	Z	.014	3
40	MP-1	Z	.009	4
41	MP-2	Z	.115	.5
42	MP-3	Z	.131	.25
43	MP-3	Z	.055	2
44	MP-3	Z	.051	2
45	MP-4	Z	.096	1.5
46	MP-4	Z	.02	3
47	MP-4	Z	.026	3
48	MP-4	Z	.01	4
49	MP-5	Z	.217	.5
50	MP-6	Z	.225	.25
51	MP-6	Z	.07	2
52	MP-6	Z	.058	2
53	MP-7	Z	.065	1.5
54	MP-7	Z	.017	3
55	MP-7	Z	.014	3
56	MP-7	Z	.009	4
57	MP-8	Z	.115	.5
58	MP-9	Z	.131	.25
59	MP-9	Z	.055	2
60	MP-9	Z	.051	2
61	SA1	Z	.043	1
62	SA2	Z	.043	1
63	SA3	Z	.043	1
64	MP-1	Z	.065	5.5
65	MP-2	Z	.115	6
66	MP-3	Z	.131	5.75
67	MP-4	Z	.096	5.5
68	MP-5	Z	.217	6
69	MP-6	Z	.225	5.75
70	MP-7	Z	.065	5.5
71	MP-8	Z	.115	6
72	MP-9	Z	.131	5.75

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.062	1.5
2	MP-1	X	-.014	3
3	MP-1	X	-.015	3
4	MP-1	X	-.007	4
5	MP-2	X	-.121	.5



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
6	MP-3	X	-.133	.25
7	MP-3	X	-.049	2
8	MP-3	X	-.043	2
9	MP-4	X	-.076	1.5
10	MP-4	X	-.016	3
11	MP-4	X	-.02	3
12	MP-4	X	-.008	4
13	MP-5	X	-.169	.5
14	MP-6	X	-.177	.25
15	MP-6	X	-.056	2
16	MP-6	X	-.047	2
17	MP-7	X	-.047	1.5
18	MP-7	X	-.013	3
19	MP-7	X	-.009	3
20	MP-7	X	-.007	4
21	MP-8	X	-.073	.5
22	MP-9	X	-.088	.25
23	MP-9	X	-.042	2
24	MP-9	X	-.04	2
25	SA1	X	-.035	1
26	SA2	X	-.035	1
27	SA3	X	-.035	1
28	MP-1	X	-.062	5.5
29	MP-2	X	-.121	6
30	MP-3	X	-.133	5.75
31	MP-4	X	-.076	5.5
32	MP-5	X	-.169	6
33	MP-6	X	-.177	5.75
34	MP-7	X	-.047	5.5
35	MP-8	X	-.073	6
36	MP-9	X	-.088	5.75
37	MP-1	Z	.062	1.5
38	MP-1	Z	.014	3
39	MP-1	Z	.015	3
40	MP-1	Z	.007	4
41	MP-2	Z	.121	.5
42	MP-3	Z	.133	.25
43	MP-3	Z	.049	2
44	MP-3	Z	.043	2
45	MP-4	Z	.076	1.5
46	MP-4	Z	.016	3
47	MP-4	Z	.02	3
48	MP-4	Z	.008	4
49	MP-5	Z	.169	.5
50	MP-6	Z	.177	.25
51	MP-6	Z	.056	2
52	MP-6	Z	.047	2
53	MP-7	Z	.047	1.5
54	MP-7	Z	.013	3
55	MP-7	Z	.009	3
56	MP-7	Z	.007	4
57	MP-8	Z	.073	.5
58	MP-9	Z	.088	.25
59	MP-9	Z	.042	2
60	MP-9	Z	.04	2
61	SA1	Z	.035	1
62	SA2	Z	.035	1



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
63	SA3	Z	.035	1
64	MP-1	Z	.062	5.5
65	MP-2	Z	.121	6
66	MP-3	Z	.133	5.75
67	MP-4	Z	.076	5.5
68	MP-5	Z	.169	6
69	MP-6	Z	.177	5.75
70	MP-7	Z	.047	5.5
71	MP-8	Z	.073	6
72	MP-9	Z	.088	5.75

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.086	1.5
2	MP-1	X	-.019	3
3	MP-1	X	-.022	3
4	MP-1	X	-.009	4
5	MP-2	X	-.183	.5
6	MP-3	X	-.194	.25
7	MP-3	X	-.065	2
8	MP-3	X	-.056	2
9	MP-4	X	-.086	1.5
10	MP-4	X	-.019	3
11	MP-4	X	-.022	3
12	MP-4	X	-.009	4
13	MP-5	X	-.183	.5
14	MP-6	X	-.194	.25
15	MP-6	X	-.065	2
16	MP-6	X	-.056	2
17	MP-7	X	-.055	1.5
18	MP-7	X	-.016	3
19	MP-7	X	-.01	3
20	MP-7	X	-.008	4
21	MP-8	X	-.081	.5
22	MP-9	X	-.1	.25
23	MP-9	X	-.05	2
24	MP-9	X	-.048	2
25	SA1	X	-.043	1
26	SA2	X	-.043	1
27	SA3	X	-.043	1
28	MP-1	X	-.086	5.5
29	MP-2	X	-.183	6
30	MP-3	X	-.194	5.75
31	MP-4	X	-.086	5.5
32	MP-5	X	-.183	6
33	MP-6	X	-.194	5.75
34	MP-7	X	-.055	5.5
35	MP-8	X	-.081	6
36	MP-9	X	-.1	5.75
37	MP-1	Z	.05	1.5
38	MP-1	Z	.011	3
39	MP-1	Z	.013	3
40	MP-1	Z	.005	4
41	MP-2	Z	.105	.5
42	MP-3	Z	.112	.25
43	MP-3	Z	.037	2



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
44	MP-3	Z	.032	2
45	MP-4	Z	.05	1.5
46	MP-4	Z	.011	3
47	MP-4	Z	.013	3
48	MP-4	Z	.005	4
49	MP-5	Z	.105	.5
50	MP-6	Z	.112	.25
51	MP-6	Z	.037	2
52	MP-6	Z	.032	2
53	MP-7	Z	.032	1.5
54	MP-7	Z	.009	3
55	MP-7	Z	.005	3
56	MP-7	Z	.005	4
57	MP-8	Z	.046	.5
58	MP-9	Z	.057	.25
59	MP-9	Z	.029	2
60	MP-9	Z	.028	2
61	SA1	Z	.025	1
62	SA2	Z	.025	1
63	SA3	Z	.025	1
64	MP-1	Z	.05	5.5
65	MP-2	Z	.105	6
66	MP-3	Z	.112	5.75
67	MP-4	Z	.05	5.5
68	MP-5	Z	.105	6
69	MP-6	Z	.112	5.75
70	MP-7	Z	.032	5.5
71	MP-8	Z	.046	6
72	MP-9	Z	.057	5.75

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Y	-.043	1.5
2	MP-1	Y	-.016	3
3	MP-1	Y	-.02	3
4	MP-1	Y	-.01	4
5	MP-2	Y	-.091	.5
6	MP-3	Y	-.09	.25
7	MP-3	Y	-.047	2
8	MP-3	Y	-.044	2
9	MP-4	Y	-.043	1.5
10	MP-4	Y	-.016	3
11	MP-4	Y	-.02	3
12	MP-4	Y	-.01	4
13	MP-5	Y	-.091	.5
14	MP-6	Y	-.09	.25
15	MP-6	Y	-.047	2
16	MP-6	Y	-.044	2
17	MP-7	Y	-.043	1.5
18	MP-7	Y	-.016	3
19	MP-7	Y	-.02	3
20	MP-7	Y	-.01	4
21	MP-8	Y	-.091	.5
22	MP-9	Y	-.09	.25
23	MP-9	Y	-.047	2
24	MP-9	Y	-.044	2



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft. %]
25	SA1	Y	-0.48	1
26	SA2	Y	-0.48	1
27	SA3	Y	-0.48	1
28	MP-1	Y	-0.43	5.5
29	MP-2	Y	-0.91	6
30	MP-3	Y	-0.09	5.75
31	MP-4	Y	-0.43	5.5
32	MP-5	Y	-0.91	6
33	MP-6	Y	-0.09	5.75
34	MP-7	Y	-0.43	5.5
35	MP-8	Y	-0.91	6
36	MP-9	Y	-0.09	5.75

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft. %]
1	MP-1	X	-0.24	1.5
2	MP-1	X	-0.07	3
3	MP-1	X	-0.01	3
4	MP-1	X	-0.005	4
5	MP-2	X	-0.05	.5
6	MP-3	X	-0.052	.25
7	MP-3	X	-0.019	2
8	MP-3	X	-0.016	2
9	MP-4	X	-0.024	1.5
10	MP-4	X	-0.007	3
11	MP-4	X	-0.01	3
12	MP-4	X	-0.005	4
13	MP-5	X	-0.05	.5
14	MP-6	X	-0.052	.25
15	MP-6	X	-0.019	2
16	MP-6	X	-0.016	2
17	MP-7	X	-0.024	1.5
18	MP-7	X	-0.007	3
19	MP-7	X	-0.01	3
20	MP-7	X	-0.005	4
21	MP-8	X	-0.05	.5
22	MP-9	X	-0.052	.25
23	MP-9	X	-0.019	2
24	MP-9	X	-0.016	2
25	SA1	X	-0.11	1
26	SA2	X	-0.11	1
27	SA3	X	-0.11	1
28	MP-1	X	-0.024	5.5
29	MP-2	X	-0.05	6
30	MP-3	X	-0.052	5.75
31	MP-4	X	-0.024	5.5
32	MP-5	X	-0.05	6
33	MP-6	X	-0.052	5.75
34	MP-7	X	-0.024	5.5
35	MP-8	X	-0.05	6
36	MP-9	X	-0.052	5.75

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft. %]
1	MP-1	X	-0.19	1.5
2	MP-1	X	-0.006	3



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft. %]
3	MP-1	X	-0.07	3
4	MP-1	X	-0.004	4
5	MP-2	X	-0.037	.5
6	MP-3	X	-0.04	.25
7	MP-3	X	-0.015	2
8	MP-3	X	-0.013	2
9	MP-4	X	-0.013	1.5
10	MP-4	X	-0.005	3
11	MP-4	X	-0.004	3
12	MP-4	X	-0.004	4
13	MP-5	X	-0.018	.5
14	MP-6	X	-0.023	.25
15	MP-6	X	-0.012	2
16	MP-6	X	-0.012	2
17	MP-7	X	-0.019	1.5
18	MP-7	X	-0.006	3
19	MP-7	X	-0.007	3
20	MP-7	X	-0.004	4
21	MP-8	X	-0.037	.5
22	MP-9	X	-0.04	.25
23	MP-9	X	-0.015	2
24	MP-9	X	-0.013	2
25	SA1	X	-0.01	1
26	SA2	X	-0.01	1
27	SA3	X	-0.01	1
28	MP-1	X	-0.019	5.5
29	MP-2	X	-0.037	6
30	MP-3	X	-0.04	5.75
31	MP-4	X	-0.013	5.5
32	MP-5	X	-0.018	6
33	MP-6	X	-0.023	5.75
34	MP-7	X	-0.019	5.5
35	MP-8	X	-0.037	6
36	MP-9	X	-0.04	5.75
37	MP-1	Z	-0.11	1.5
38	MP-1	Z	-0.003	3
39	MP-1	Z	-0.004	3
40	MP-1	Z	-0.003	4
41	MP-2	Z	-0.021	.5
42	MP-3	Z	-0.023	.25
43	MP-3	Z	-0.009	2
44	MP-3	Z	-0.008	2
45	MP-4	Z	-0.008	1.5
46	MP-4	Z	-0.003	3
47	MP-4	Z	-0.002	3
48	MP-4	Z	-0.002	4
49	MP-5	Z	-0.011	.5
50	MP-6	Z	-0.013	.25
51	MP-6	Z	-0.007	2
52	MP-6	Z	-0.007	2
53	MP-7	Z	-0.011	1.5
54	MP-7	Z	-0.003	3
55	MP-7	Z	-0.004	3
56	MP-7	Z	-0.003	4
57	MP-8	Z	-0.021	.5
58	MP-9	Z	-0.023	.25
59	MP-9	Z	-0.009	2



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
60	MP-9	Z	-0.08	2
61	SA1	Z	-0.06	1
62	SA2	Z	-0.06	1
63	SA3	Z	-0.06	1
64	MP-1	Z	-0.11	5.5
65	MP-2	Z	-0.21	6
66	MP-3	Z	-0.23	5.75
67	MP-4	Z	-0.08	5.5
68	MP-5	Z	-0.11	6
69	MP-6	Z	-0.13	5.75
70	MP-7	Z	-0.11	5.5
71	MP-8	Z	-0.21	6
72	MP-9	Z	-0.23	5.75

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-0.14	1.5
2	MP-1	X	-0.04	3
3	MP-1	X	-0.05	3
4	MP-1	X	-0.03	4
5	MP-2	X	-0.25	.5
6	MP-3	X	-0.28	.25
7	MP-3	X	-0.12	2
8	MP-3	X	-0.11	2
9	MP-4	X	-0.11	1.5
10	MP-4	X	-0.04	3
11	MP-4	X	-0.04	3
12	MP-4	X	-0.03	4
13	MP-5	X	-0.16	.5
14	MP-6	X	-0.2	.25
15	MP-6	X	-0.1	2
16	MP-6	X	-0.1	2
17	MP-7	X	-0.17	1.5
18	MP-7	X	-0.05	3
19	MP-7	X	-0.07	3
20	MP-7	X	-0.04	4
21	MP-8	X	-0.34	.5
22	MP-9	X	-0.36	.25
23	MP-9	X	-0.13	2
24	MP-9	X	-0.11	2
25	SA1	X	-0.08	1
26	SA2	X	-0.08	1
27	SA3	X	-0.08	1
28	MP-1	X	-0.14	5.5
29	MP-2	X	-0.25	6
30	MP-3	X	-0.28	5.75
31	MP-4	X	-0.11	5.5
32	MP-5	X	-0.16	6
33	MP-6	X	-0.2	5.75
34	MP-7	X	-0.17	5.5
35	MP-8	X	-0.34	6
36	MP-9	X	-0.36	5.75
37	MP-1	Z	-0.14	1.5
38	MP-1	Z	-0.04	3
39	MP-1	Z	-0.05	3
40	MP-1	Z	-0.03	4



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
41	MP-2	Z	-0.25	.5
42	MP-3	Z	-0.28	.25
43	MP-3	Z	-0.12	2
44	MP-3	Z	-0.11	2
45	MP-4	Z	-0.11	1.5
46	MP-4	Z	-0.04	3
47	MP-4	Z	-0.04	3
48	MP-4	Z	-0.03	4
49	MP-5	Z	-0.16	.5
50	MP-6	Z	-0.2	.25
51	MP-6	Z	-0.1	2
52	MP-6	Z	-0.1	2
53	MP-7	Z	-0.17	1.5
54	MP-7	Z	-0.05	3
55	MP-7	Z	-0.07	3
56	MP-7	Z	-0.04	4
57	MP-8	Z	-0.34	.5
58	MP-9	Z	-0.36	.25
59	MP-9	Z	-0.13	2
60	MP-9	Z	-0.11	2
61	SA1	Z	-0.08	1
62	SA2	Z	-0.08	1
63	SA3	Z	-0.08	1
64	MP-1	Z	-0.14	5.5
65	MP-2	Z	-0.25	6
66	MP-3	Z	-0.28	5.75
67	MP-4	Z	-0.11	5.5
68	MP-5	Z	-0.16	6
69	MP-6	Z	-0.2	5.75
70	MP-7	Z	-0.17	5.5
71	MP-8	Z	-0.34	6
72	MP-9	Z	-0.36	5.75

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-0.09	1.5
2	MP-1	X	-0.03	3
3	MP-1	X	-0.03	3
4	MP-1	X	-0.02	4
5	MP-2	X	-0.14	.5
6	MP-3	X	-0.16	.25
7	MP-3	X	-0.08	2
8	MP-3	X	-0.07	2
9	MP-4	X	-0.09	1.5
10	MP-4	X	-0.03	3
11	MP-4	X	-0.03	3
12	MP-4	X	-0.02	4
13	MP-5	X	-0.14	.5
14	MP-6	X	-0.16	.25
15	MP-6	X	-0.08	2
16	MP-6	X	-0.07	2
17	MP-7	X	-0.12	1.5
18	MP-7	X	-0.03	3
19	MP-7	X	-0.05	3
20	MP-7	X	-0.03	4
21	MP-8	X	-0.25	.5



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
22	MP-9	X	-0.26	25
23	MP-9	X	-0.09	2
24	MP-9	X	-0.08	2
25	SA1	X	-0.06	1
26	SA2	X	-0.06	1
27	SA3	X	-0.06	1
28	MP-1	X	-0.09	5.5
29	MP-2	X	-0.14	6
30	MP-3	X	-0.16	5.75
31	MP-4	X	-0.09	5.5
32	MP-5	X	-0.14	6
33	MP-6	X	-0.16	5.75
34	MP-7	X	-0.12	5.5
35	MP-8	X	-0.25	6
36	MP-9	X	-0.26	5.75
37	MP-1	Z	-0.15	1.5
38	MP-1	Z	-0.05	3
39	MP-1	Z	-0.05	3
40	MP-1	Z	-0.04	4
41	MP-2	Z	-0.25	.5
42	MP-3	Z	-0.28	25
43	MP-3	Z	-0.13	2
44	MP-3	Z	-0.12	2
45	MP-4	Z	-0.15	1.5
46	MP-4	Z	-0.05	3
47	MP-4	Z	-0.05	3
48	MP-4	Z	-0.04	4
49	MP-5	Z	-0.25	.5
50	MP-6	Z	-0.28	25
51	MP-6	Z	-0.13	2
52	MP-6	Z	-0.12	2
53	MP-7	Z	-0.21	1.5
54	MP-7	Z	-0.06	3
55	MP-7	Z	-0.08	3
56	MP-7	Z	-0.04	4
57	MP-8	Z	-0.43	.5
58	MP-9	Z	-0.45	25
59	MP-9	Z	-0.16	2
60	MP-9	Z	-0.14	2
61	SA1	Z	-0.1	1
62	SA2	Z	-0.1	1
63	SA3	Z	-0.1	1
64	MP-1	Z	-0.15	5.5
65	MP-2	Z	-0.25	6
66	MP-3	Z	-0.28	5.75
67	MP-4	Z	-0.15	5.5
68	MP-5	Z	-0.25	6
69	MP-6	Z	-0.28	5.75
70	MP-7	Z	-0.21	5.5
71	MP-8	Z	-0.43	6
72	MP-9	Z	-0.45	5.75

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Z	-0.15	1.5
2	MP-1	Z	-0.06	3



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
3	MP-1	Z	-0.05	3
4	MP-1	Z	-0.05	4
5	MP-2	Z	-0.21	.5
6	MP-3	Z	-0.26	.25
7	MP-3	Z	-0.14	2
8	MP-3	Z	-0.14	2
9	MP-4	Z	-0.15	1.5
10	MP-4	Z	-0.06	3
11	MP-4	Z	-0.05	3
12	MP-4	Z	-0.05	4
13	MP-5	Z	-0.21	.5
14	MP-6	Z	-0.26	.25
15	MP-6	Z	-0.14	2
16	MP-6	Z	-0.14	2
17	MP-7	Z	-0.15	1.5
18	MP-7	Z	-0.06	3
19	MP-7	Z	-0.05	3
20	MP-7	Z	-0.05	4
21	MP-8	Z	-0.21	.5
22	MP-9	Z	-0.26	.25
23	MP-9	Z	-0.14	2
24	MP-9	Z	-0.14	2
25	SA1	Z	-0.11	1
26	SA2	Z	-0.11	1
27	SA3	Z	-0.11	1
28	MP-1	Z	-0.15	5.5
29	MP-2	Z	-0.21	6
30	MP-3	Z	-0.26	5.75
31	MP-4	Z	-0.15	5.5
32	MP-5	Z	-0.21	6
33	MP-6	Z	-0.26	5.75
34	MP-7	Z	-0.15	5.5
35	MP-8	Z	-0.21	6
36	MP-9	Z	-0.26	5.75

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.009	1.5
2	MP-1	X	.003	3
3	MP-1	X	.003	3
4	MP-1	X	.002	4
5	MP-2	X	.014	.5
6	MP-3	X	.016	.25
7	MP-3	X	.008	2
8	MP-3	X	.007	2
9	MP-4	X	.012	1.5
10	MP-4	X	.003	3
11	MP-4	X	.005	3
12	MP-4	X	.003	4
13	MP-5	X	.025	.5
14	MP-6	X	.026	.25
15	MP-6	X	.009	2
16	MP-6	X	.008	2
17	MP-7	X	.009	1.5
18	MP-7	X	.003	3
19	MP-7	X	.003	3





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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft,%]
20	MP-7	X	.002	4
21	MP-8	X	.014	.5
22	MP-9	X	.016	.25
23	MP-9	X	.008	2
24	MP-9	X	.007	2
25	SA1	X	.006	1
26	SA2	X	.006	1
27	SA3	X	.006	1
28	MP-1	X	.009	5.5
29	MP-2	X	.014	6
30	MP-3	X	.016	5.75
31	MP-4	X	.012	5.5
32	MP-5	X	.025	6
33	MP-6	X	.026	5.75
34	MP-7	X	.009	5.5
35	MP-8	X	.014	6
36	MP-9	X	.016	5.75
37	MP-1	Z	-.015	1.5
38	MP-1	Z	-.005	3
39	MP-1	Z	-.005	3
40	MP-1	Z	-.004	4
41	MP-2	Z	-.025	.5
42	MP-3	Z	-.028	.25
43	MP-3	Z	-.013	2
44	MP-3	Z	-.012	2
45	MP-4	Z	-.021	1.5
46	MP-4	Z	-.006	3
47	MP-4	Z	-.008	3
48	MP-4	Z	-.004	4
49	MP-5	Z	-.043	.5
50	MP-6	Z	-.045	.25
51	MP-6	Z	-.016	2
52	MP-6	Z	-.014	2
53	MP-7	Z	-.015	1.5
54	MP-7	Z	-.005	3
55	MP-7	Z	-.005	3
56	MP-7	Z	-.004	4
57	MP-8	Z	-.025	.5
58	MP-9	Z	-.028	.25
59	MP-9	Z	-.013	2
60	MP-9	Z	-.012	2
61	SA1	Z	-.01	1
62	SA2	Z	-.01	1
63	SA3	Z	-.01	1
64	MP-1	Z	-.015	5.5
65	MP-2	Z	-.025	6
66	MP-3	Z	-.028	5.75
67	MP-4	Z	-.021	5.5
68	MP-5	Z	-.043	6
69	MP-6	Z	-.045	5.75
70	MP-7	Z	-.015	5.5
71	MP-8	Z	-.025	6
72	MP-9	Z	-.028	5.75

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft,%]
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**Member Point Loads (BLC 25 : 135 Wind - Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft,%]
1	MP-1	X	.014	1.5
2	MP-1	X	.004	3
3	MP-1	X	.005	3
4	MP-1	X	.003	4
5	MP-2	X	.025	.5
6	MP-3	X	.028	.25
7	MP-3	X	.012	2
8	MP-3	X	.011	2
9	MP-4	X	.017	1.5
10	MP-4	X	.005	3
11	MP-4	X	.007	3
12	MP-4	X	.004	4
13	MP-5	X	.034	.5
14	MP-6	X	.036	.25
15	MP-6	X	.013	2
16	MP-6	X	.011	2
17	MP-7	X	.011	1.5
18	MP-7	X	.004	3
19	MP-7	X	.004	3
20	MP-7	X	.003	4
21	MP-8	X	.016	.5
22	MP-9	X	.02	.25
23	MP-9	X	.01	2
24	MP-9	X	.01	2
25	SA1	X	.008	1
26	SA2	X	.008	1
27	SA3	X	.008	1
28	MP-1	X	.014	5.5
29	MP-2	X	.025	6
30	MP-3	X	.028	5.75
31	MP-4	X	.017	5.5
32	MP-5	X	.034	6
33	MP-6	X	.036	5.75
34	MP-7	X	.011	5.5
35	MP-8	X	.016	6
36	MP-9	X	.02	5.75
37	MP-1	Z	-.014	1.5
38	MP-1	Z	-.004	3
39	MP-1	Z	-.005	3
40	MP-1	Z	-.003	4
41	MP-2	Z	-.025	.5
42	MP-3	Z	-.028	.25
43	MP-3	Z	-.012	2
44	MP-3	Z	-.011	2
45	MP-4	Z	-.017	1.5
46	MP-4	Z	-.005	3
47	MP-4	Z	-.007	3
48	MP-4	Z	-.004	4
49	MP-5	Z	-.034	.5
50	MP-6	Z	-.036	.25
51	MP-6	Z	-.013	2
52	MP-6	Z	-.011	2
53	MP-7	Z	-.011	1.5
54	MP-7	Z	-.004	3
55	MP-7	Z	-.004	3
56	MP-7	Z	-.003	4
57	MP-8	Z	-.016	.5



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
58	MP-9	Z	-.02	.25
59	MP-9	Z	-.01	2
60	MP-9	Z	-.01	2
61	SA1	Z	-.008	1
62	SA2	Z	-.008	1
63	SA3	Z	-.008	1
64	MP-1	Z	-.014	5.5
65	MP-2	Z	-.025	6
66	MP-3	Z	-.028	5.75
67	MP-4	Z	-.017	5.5
68	MP-5	Z	-.034	6
69	MP-6	Z	-.036	5.75
70	MP-7	Z	-.011	5.5
71	MP-8	Z	-.016	6
72	MP-9	Z	-.02	5.75

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.019	1.5
2	MP-1	X	.006	3
3	MP-1	X	.007	3
4	MP-1	X	.004	4
5	MP-2	X	.037	.5
6	MP-3	X	.04	.25
7	MP-3	X	.015	2
8	MP-3	X	.013	2
9	MP-4	X	.019	1.5
10	MP-4	X	.006	3
11	MP-4	X	.007	3
12	MP-4	X	.004	4
13	MP-5	X	.037	.5
14	MP-6	X	.04	.25
15	MP-6	X	.015	2
16	MP-6	X	.013	2
17	MP-7	X	.013	1.5
18	MP-7	X	.005	3
19	MP-7	X	.004	3
20	MP-7	X	.004	4
21	MP-8	X	.018	.5
22	MP-9	X	.023	.25
23	MP-9	X	.012	2
24	MP-9	X	.012	2
25	SA1	X	.01	1
26	SA2	X	.01	1
27	SA3	X	.01	1
28	MP-1	X	.019	5.5
29	MP-2	X	.037	6
30	MP-3	X	.04	5.75
31	MP-4	X	.019	5.5
32	MP-5	X	.037	6
33	MP-6	X	.04	5.75
34	MP-7	X	.013	5.5
35	MP-8	X	.018	6
36	MP-9	X	.023	5.75
37	MP-1	Z	-.011	1.5
38	MP-1	Z	-.003	3



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
39	MP-1	Z	-.004	3
40	MP-1	Z	-.003	4
41	MP-2	Z	-.021	.5
42	MP-3	Z	-.023	.25
43	MP-3	Z	-.009	2
44	MP-3	Z	-.008	2
45	MP-4	Z	-.011	1.5
46	MP-4	Z	-.003	3
47	MP-4	Z	-.004	3
48	MP-4	Z	-.003	4
49	MP-5	Z	-.021	.5
50	MP-6	Z	-.023	.25
51	MP-6	Z	-.009	2
52	MP-6	Z	-.008	2
53	MP-7	Z	-.008	1.5
54	MP-7	Z	-.003	3
55	MP-7	Z	-.002	3
56	MP-7	Z	-.002	4
57	MP-8	Z	-.011	.5
58	MP-9	Z	-.013	.25
59	MP-9	Z	-.007	2
60	MP-9	Z	-.007	2
61	SA1	Z	-.006	1
62	SA2	Z	-.006	1
63	SA3	Z	-.006	1
64	MP-1	Z	-.011	5.5
65	MP-2	Z	-.021	6
66	MP-3	Z	-.023	5.75
67	MP-4	Z	-.011	5.5
68	MP-5	Z	-.021	6
69	MP-6	Z	-.023	5.75
70	MP-7	Z	-.008	5.5
71	MP-8	Z	-.011	6
72	MP-9	Z	-.013	5.75

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.024	1.5
2	MP-1	X	.007	3
3	MP-1	X	.01	3
4	MP-1	X	.005	4
5	MP-2	X	.05	.5
6	MP-3	X	.052	.25
7	MP-3	X	.019	2
8	MP-3	X	.016	2
9	MP-4	X	.024	1.5
10	MP-4	X	.007	3
11	MP-4	X	.01	3
12	MP-4	X	.005	4
13	MP-5	X	.05	.5
14	MP-6	X	.052	.25
15	MP-6	X	.019	2
16	MP-6	X	.016	2
17	MP-7	X	.024	1.5
18	MP-7	X	.007	3
19	MP-7	X	.01	3



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
20	MP-7	X	.005	4
21	MP-8	X	.05	.5
22	MP-9	X	.052	.25
23	MP-9	X	.019	2
24	MP-9	X	.016	2
25	SA1	X	.011	1
26	SA2	X	.011	1
27	SA3	X	.011	1
28	MP-1	X	.024	5.5
29	MP-2	X	.05	6
30	MP-3	X	.052	5.75
31	MP-4	X	.024	5.5
32	MP-5	X	.05	6
33	MP-6	X	.052	5.75
34	MP-7	X	.024	5.5
35	MP-8	X	.05	6
36	MP-9	X	.052	5.75

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.019	1.5
2	MP-1	X	.006	3
3	MP-1	X	.007	3
4	MP-1	X	.004	4
5	MP-2	X	.037	.5
6	MP-3	X	.04	.25
7	MP-3	X	.015	2
8	MP-3	X	.013	2
9	MP-4	X	.013	1.5
10	MP-4	X	.005	3
11	MP-4	X	.004	3
12	MP-4	X	.004	4
13	MP-5	X	.018	.5
14	MP-6	X	.023	.25
15	MP-6	X	.012	2
16	MP-6	X	.012	2
17	MP-7	X	.019	1.5
18	MP-7	X	.006	3
19	MP-7	X	.007	3
20	MP-7	X	.004	4
21	MP-8	X	.037	.5
22	MP-9	X	.04	.25
23	MP-9	X	.015	2
24	MP-9	X	.013	2
25	SA1	X	.01	1
26	SA2	X	.01	1
27	SA3	X	.01	1
28	MP-1	X	.019	5.5
29	MP-2	X	.037	6
30	MP-3	X	.04	5.75
31	MP-4	X	.013	5.5
32	MP-5	X	.018	6
33	MP-6	X	.023	5.75
34	MP-7	X	.019	5.5
35	MP-8	X	.037	6
36	MP-9	X	.04	5.75



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
37	MP-1	Z	.011	1.5
38	MP-1	Z	.003	3
39	MP-1	Z	.004	3
40	MP-1	Z	.003	4
41	MP-2	Z	.021	.5
42	MP-3	Z	.023	.25
43	MP-3	Z	.009	2
44	MP-3	Z	.008	2
45	MP-4	Z	.008	1.5
46	MP-4	Z	.003	3
47	MP-4	Z	.002	3
48	MP-4	Z	.002	4
49	MP-5	Z	.011	.5
50	MP-6	Z	.013	.25
51	MP-6	Z	.007	2
52	MP-6	Z	.007	2
53	MP-7	Z	.011	1.5
54	MP-7	Z	.003	3
55	MP-7	Z	.004	3
56	MP-7	Z	.003	4
57	MP-8	Z	.021	.5
58	MP-9	Z	.023	.25
59	MP-9	Z	.009	2
60	MP-9	Z	.008	2
61	SA1	Z	.006	1
62	SA2	Z	.006	1
63	SA3	Z	.006	1
64	MP-1	Z	.011	5.5
65	MP-2	Z	.021	6
66	MP-3	Z	.023	5.75
67	MP-4	Z	.008	5.5
68	MP-5	Z	.011	6
69	MP-6	Z	.013	5.75
70	MP-7	Z	.011	5.5
71	MP-8	Z	.021	6
72	MP-9	Z	.023	5.75

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.014	1.5
2	MP-1	X	.004	3
3	MP-1	X	.005	3
4	MP-1	X	.003	4
5	MP-2	X	.025	.5
6	MP-3	X	.028	.25
7	MP-3	X	.012	2
8	MP-3	X	.011	2
9	MP-4	X	.011	1.5
10	MP-4	X	.004	3
11	MP-4	X	.004	3
12	MP-4	X	.003	4
13	MP-5	X	.016	.5
14	MP-6	X	.02	.25
15	MP-6	X	.01	2
16	MP-6	X	.01	2
17	MP-7	X	.017	1.5



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
18	MP-7	X	.005	3
19	MP-7	X	.007	3
20	MP-7	X	.004	4
21	MP-8	X	.034	.5
22	MP-9	X	.036	.25
23	MP-9	X	.013	2
24	MP-9	X	.011	2
25	SA1	X	.008	1
26	SA2	X	.008	1
27	SA3	X	.008	1
28	MP-1	X	.014	5.5
29	MP-2	X	.025	6
30	MP-3	X	.028	5.75
31	MP-4	X	.011	5.5
32	MP-5	X	.016	6
33	MP-6	X	.02	5.75
34	MP-7	X	.017	5.5
35	MP-8	X	.034	6
36	MP-9	X	.036	5.75
37	MP-1	Z	.014	1.5
38	MP-1	Z	.004	3
39	MP-1	Z	.005	3
40	MP-1	Z	.003	4
41	MP-2	Z	.025	.5
42	MP-3	Z	.028	.25
43	MP-3	Z	.012	2
44	MP-3	Z	.011	2
45	MP-4	Z	.011	1.5
46	MP-4	Z	.004	3
47	MP-4	Z	.004	3
48	MP-4	Z	.003	4
49	MP-5	Z	.016	.5
50	MP-6	Z	.02	.25
51	MP-6	Z	.01	2
52	MP-6	Z	.01	2
53	MP-7	Z	.017	1.5
54	MP-7	Z	.005	3
55	MP-7	Z	.007	3
56	MP-7	Z	.004	4
57	MP-8	Z	.034	.5
58	MP-9	Z	.036	.25
59	MP-9	Z	.013	2
60	MP-9	Z	.011	2
61	SA1	Z	.008	1
62	SA2	Z	.008	1
63	SA3	Z	.008	1
64	MP-1	Z	.014	5.5
65	MP-2	Z	.025	6
66	MP-3	Z	.028	5.75
67	MP-4	Z	.011	5.5
68	MP-5	Z	.016	6
69	MP-6	Z	.02	5.75
70	MP-7	Z	.017	5.5
71	MP-8	Z	.034	6
72	MP-9	Z	.036	5.75



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.009	1.5
2	MP-1	X	.003	3
3	MP-1	X	.003	3
4	MP-1	X	.002	4
5	MP-2	X	.014	.5
6	MP-3	X	.016	.25
7	MP-3	X	.008	2
8	MP-3	X	.007	2
9	MP-4	X	.009	1.5
10	MP-4	X	.003	3
11	MP-4	X	.003	3
12	MP-4	X	.002	4
13	MP-5	X	.014	.5
14	MP-6	X	.016	.25
15	MP-6	X	.008	2
16	MP-6	X	.007	2
17	MP-7	X	.012	1.5
18	MP-7	X	.003	3
19	MP-7	X	.005	3
20	MP-7	X	.003	4
21	MP-8	X	.025	.5
22	MP-9	X	.026	.25
23	MP-9	X	.009	2
24	MP-9	X	.008	2
25	SA1	X	.006	1
26	SA2	X	.006	1
27	SA3	X	.006	1
28	MP-1	X	.009	5.5
29	MP-2	X	.014	6
30	MP-3	X	.016	5.75
31	MP-4	X	.009	5.5
32	MP-5	X	.014	6
33	MP-6	X	.016	5.75
34	MP-7	X	.012	5.5
35	MP-8	X	.025	6
36	MP-9	X	.026	5.75
37	MP-1	Z	.015	1.5
38	MP-1	Z	.005	3
39	MP-1	Z	.005	3
40	MP-1	Z	.004	4
41	MP-2	Z	.025	.5
42	MP-3	Z	.028	.25
43	MP-3	Z	.013	2
44	MP-3	Z	.012	2
45	MP-4	Z	.015	1.5
46	MP-4	Z	.005	3
47	MP-4	Z	.005	3
48	MP-4	Z	.004	4
49	MP-5	Z	.025	.5
50	MP-6	Z	.028	.25
51	MP-6	Z	.013	2
52	MP-6	Z	.012	2
53	MP-7	Z	.021	1.5
54	MP-7	Z	.006	3
55	MP-7	Z	.008	3
56	MP-7	Z	.004	4
57	MP-8	Z	.043	.5



Company : Tower Engineering Professionals  
 Designer : DMLG  
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**Member Point Loads (BLC 30 : 240 Wind - Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
58	MP-9	Z	.045	.25
59	MP-9	Z	.016	2
60	MP-9	Z	.014	2
61	SA1	Z	.01	1
62	SA2	Z	.01	1
63	SA3	Z	.01	1
64	MP-1	Z	.015	5.5
65	MP-2	Z	.025	6
66	MP-3	Z	.028	5.75
67	MP-4	Z	.015	5.5
68	MP-5	Z	.025	6
69	MP-6	Z	.028	5.75
70	MP-7	Z	.021	5.5
71	MP-8	Z	.043	6
72	MP-9	Z	.045	5.75

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Z	.015	1.5
2	MP-1	Z	.006	3
3	MP-1	Z	.005	3
4	MP-1	Z	.005	4
5	MP-2	Z	.021	.5
6	MP-3	Z	.026	.25
7	MP-3	Z	.014	2
8	MP-3	Z	.014	2
9	MP-4	Z	.015	1.5
10	MP-4	Z	.006	3
11	MP-4	Z	.005	3
12	MP-4	Z	.005	4
13	MP-5	Z	.021	.5
14	MP-6	Z	.026	.25
15	MP-6	Z	.014	2
16	MP-6	Z	.014	2
17	MP-7	Z	.015	1.5
18	MP-7	Z	.006	3
19	MP-7	Z	.005	3
20	MP-7	Z	.005	4
21	MP-8	Z	.021	.5
22	MP-9	Z	.026	.25
23	MP-9	Z	.014	2
24	MP-9	Z	.014	2
25	SA1	Z	.011	1
26	SA2	Z	.011	1
27	SA3	Z	.011	1
28	MP-1	Z	.015	5.5
29	MP-2	Z	.021	6
30	MP-3	Z	.026	5.75
31	MP-4	Z	.015	5.5
32	MP-5	Z	.021	6
33	MP-6	Z	.026	5.75
34	MP-7	Z	.015	5.5
35	MP-8	Z	.021	6
36	MP-9	Z	.026	5.75



Company : Tower Engineering Professionals  
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**Member Point Loads (BLC 32 : 300 Wind - Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.009	1.5
2	MP-1	X	-.003	3
3	MP-1	X	-.003	3
4	MP-1	X	-.002	4
5	MP-2	X	-.014	.5
6	MP-3	X	-.016	.25
7	MP-3	X	-.008	2
8	MP-3	X	-.007	2
9	MP-4	X	-.012	1.5
10	MP-4	X	-.003	3
11	MP-4	X	-.005	3
12	MP-4	X	-.003	4
13	MP-5	X	-.025	.5
14	MP-6	X	-.026	.25
15	MP-6	X	-.009	2
16	MP-6	X	-.008	2
17	MP-7	X	-.009	1.5
18	MP-7	X	-.003	3
19	MP-7	X	-.003	3
20	MP-7	X	-.002	4
21	MP-8	X	-.014	.5
22	MP-9	X	-.016	.25
23	MP-9	X	-.008	2
24	MP-9	X	-.007	2
25	SA1	X	-.006	1
26	SA2	X	-.006	1
27	SA3	X	-.006	1
28	MP-1	X	-.009	5.5
29	MP-2	X	-.014	6
30	MP-3	X	-.016	5.75
31	MP-4	X	-.012	5.5
32	MP-5	X	-.025	6
33	MP-6	X	-.026	5.75
34	MP-7	X	-.009	5.5
35	MP-8	X	-.014	6
36	MP-9	X	-.016	5.75
37	MP-1	Z	.015	1.5
38	MP-1	Z	.005	3
39	MP-1	Z	.005	3
40	MP-1	Z	.004	4
41	MP-2	Z	.025	.5
42	MP-3	Z	.028	.25
43	MP-3	Z	.013	2
44	MP-3	Z	.012	2
45	MP-4	Z	.021	1.5
46	MP-4	Z	.006	3
47	MP-4	Z	.008	3
48	MP-4	Z	.004	4
49	MP-5	Z	.043	.5
50	MP-6	Z	.045	.25
51	MP-6	Z	.016	2
52	MP-6	Z	.014	2
53	MP-7	Z	.015	1.5
54	MP-7	Z	.005	3
55	MP-7	Z	.005	3
56	MP-7	Z	.004	4
57	MP-8	Z	.025	.5



Company : Tower Engineering Professionals  
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**Member Point Loads (BLC 32 : 300 Wind - Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
58	MP-9	Z	.028	25
59	MP-9	Z	.013	2
60	MP-9	Z	.012	2
61	SA1	Z	.01	1
62	SA2	Z	.01	1
63	SA3	Z	.01	1
64	MP-1	Z	.015	5.5
65	MP-2	Z	.025	6
66	MP-3	Z	.028	5.75
67	MP-4	Z	.021	5.5
68	MP-5	Z	.043	6
69	MP-6	Z	.045	5.75
70	MP-7	Z	.015	5.5
71	MP-8	Z	.025	6
72	MP-9	Z	.028	5.75

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.014	1.5
2	MP-1	X	-.004	3
3	MP-1	X	-.005	3
4	MP-1	X	-.003	4
5	MP-2	X	-.025	.5
6	MP-3	X	-.028	25
7	MP-3	X	-.012	2
8	MP-3	X	-.011	2
9	MP-4	X	-.017	1.5
10	MP-4	X	-.005	3
11	MP-4	X	-.007	3
12	MP-4	X	-.004	4
13	MP-5	X	-.034	.5
14	MP-6	X	-.036	25
15	MP-6	X	-.013	2
16	MP-6	X	-.011	2
17	MP-7	X	-.011	1.5
18	MP-7	X	-.004	3
19	MP-7	X	-.004	3
20	MP-7	X	-.003	4
21	MP-8	X	-.016	.5
22	MP-9	X	-.02	25
23	MP-9	X	-.01	2
24	MP-9	X	-.01	2
25	SA1	X	-.008	1
26	SA2	X	-.008	1
27	SA3	X	-.008	1
28	MP-1	X	-.014	5.5
29	MP-2	X	-.025	6
30	MP-3	X	-.028	5.75
31	MP-4	X	-.017	5.5
32	MP-5	X	-.034	6
33	MP-6	X	-.036	5.75
34	MP-7	X	-.011	5.5
35	MP-8	X	-.016	6
36	MP-9	X	-.02	5.75
37	MP-1	Z	.014	1.5
38	MP-1	Z	.004	3



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
39	MP-1	Z	.005	3
40	MP-1	Z	.003	4
41	MP-2	Z	.025	.5
42	MP-3	Z	.028	25
43	MP-3	Z	.012	2
44	MP-3	Z	.011	2
45	MP-4	Z	.017	1.5
46	MP-4	Z	.005	3
47	MP-4	Z	.007	3
48	MP-4	Z	.004	4
49	MP-5	Z	.034	.5
50	MP-6	Z	.036	25
51	MP-6	Z	.013	2
52	MP-6	Z	.011	2
53	MP-7	Z	.011	1.5
54	MP-7	Z	.004	3
55	MP-7	Z	.004	3
56	MP-7	Z	.003	4
57	MP-8	Z	.016	.5
58	MP-9	Z	.02	25
59	MP-9	Z	.01	2
60	MP-9	Z	.01	2
61	SA1	Z	.008	1
62	SA2	Z	.008	1
63	SA3	Z	.008	1
64	MP-1	Z	.014	5.5
65	MP-2	Z	.025	6
66	MP-3	Z	.028	5.75
67	MP-4	Z	.017	5.5
68	MP-5	Z	.034	6
69	MP-6	Z	.036	5.75
70	MP-7	Z	.011	5.5
71	MP-8	Z	.016	6
72	MP-9	Z	.02	5.75

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.019	1.5
2	MP-1	X	-.006	3
3	MP-1	X	-.007	3
4	MP-1	X	-.004	4
5	MP-2	X	-.037	.5
6	MP-3	X	-.04	25
7	MP-3	X	-.015	2
8	MP-3	X	-.013	2
9	MP-4	X	-.019	1.5
10	MP-4	X	-.006	3
11	MP-4	X	-.007	3
12	MP-4	X	-.004	4
13	MP-5	X	-.037	.5
14	MP-6	X	-.04	25
15	MP-6	X	-.015	2
16	MP-6	X	-.013	2
17	MP-7	X	-.013	1.5
18	MP-7	X	-.005	3
19	MP-7	X	-.004	3



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
20	MP-7	X	-0.04	4
21	MP-8	X	-0.18	.5
22	MP-9	X	-0.23	.25
23	MP-9	X	-0.12	2
24	MP-9	X	-0.12	2
25	SA1	X	-0.1	1
26	SA2	X	-0.1	1
27	SA3	X	-0.1	1
28	MP-1	X	-0.19	5.5
29	MP-2	X	-0.37	6
30	MP-3	X	-.04	5.75
31	MP-4	X	-0.19	5.5
32	MP-5	X	-0.37	6
33	MP-6	X	-.04	5.75
34	MP-7	X	-0.13	5.5
35	MP-8	X	-0.18	6
36	MP-9	X	-0.23	5.75
37	MP-1	Z	.011	1.5
38	MP-1	Z	.003	3
39	MP-1	Z	.004	3
40	MP-1	Z	.003	4
41	MP-2	Z	.021	.5
42	MP-3	Z	.023	.25
43	MP-3	Z	.009	2
44	MP-3	Z	.008	2
45	MP-4	Z	.011	1.5
46	MP-4	Z	.003	3
47	MP-4	Z	.004	3
48	MP-4	Z	.003	4
49	MP-5	Z	.021	.5
50	MP-6	Z	.023	.25
51	MP-6	Z	.009	2
52	MP-6	Z	.008	2
53	MP-7	Z	.008	1.5
54	MP-7	Z	.003	3
55	MP-7	Z	.002	3
56	MP-7	Z	.002	4
57	MP-8	Z	.011	.5
58	MP-9	Z	.013	.25
59	MP-9	Z	.007	2
60	MP-9	Z	.007	2
61	SA1	Z	.006	1
62	SA2	Z	.006	1
63	SA3	Z	.006	1
64	MP-1	Z	.011	5.5
65	MP-2	Z	.021	6
66	MP-3	Z	.023	5.75
67	MP-4	Z	.011	5.5
68	MP-5	Z	.021	6
69	MP-6	Z	.023	5.75
70	MP-7	Z	.008	5.5
71	MP-8	Z	.011	6
72	MP-9	Z	.013	5.75



Company : Tower Engineering Professionals  
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**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	SA1	X	-.015	-.015	0	%100
2	SA2	X	-.015	-.015	0	%100
3	SA3	X	0	0	0	%100
4	GSI1	X	-.01	-.01	0	%100
5	GSI2	X	-.01	-.01	0	%100
6	GSI3	X	-.023	-.023	0	%100
7	FF-H2-3	X	-.025	-.025	0	%100
8	SF1-H2-3	X	-.011	-.011	0	%100
9	SF2-H2-1	X	-.011	-.011	0	%100
10	GSI4	X	-.009	-.009	0	%100
11	GSI5	X	-.009	-.009	0	%100
12	GSI6	X	-.021	-.021	0	%100
13	GSI7	X	-.009	-.009	0	%100
14	GSI8	X	-.009	-.009	0	%100
15	GSI9	X	-.019	-.019	0	%100
16	GSC2	X	-.008	-.008	0	%100
17	GSC1	X	-.008	-.008	0	%100
18	GSC3	X	-.017	-.017	0	%100
19	SF1-H2-2	X	-.011	-.011	0	%100
20	FF-H2-2	X	-.025	-.025	0	%100
21	SF2-H2-2	X	-.011	-.011	0	%100
22	SF1-H2-1	X	-.011	-.011	0	%100
23	FF-H2-1	X	-.025	-.025	0	%100
24	SF2-H2-3	X	-.011	-.011	0	%100
25	MP-3	X	-.01	-.01	0	%100
26	MP-1	X	-.01	-.01	0	%100
27	MP-2	X	-.01	-.01	0	%100
28	MP-2B	X	-.008	-.008	0	%100
29	MP-9	X	-.01	-.01	0	%100
30	MP-7	X	-.01	-.01	0	%100
31	MP-8	X	-.01	-.01	0	%100
32	MP-8B	X	-.008	-.008	0	%100
33	MP-6	X	-.01	-.01	0	%100
34	MP-4	X	-.01	-.01	0	%100
35	MP-5	X	-.01	-.01	0	%100
36	MP-5B	X	-.008	-.008	0	%100
37	FF-SR	X	-.011	-.011	0	%100
38	SF2-SR	X	-.006	-.006	0	%100
39	SF1-SR	X	-.006	-.006	0	%100
40	SRB-1	X	-.004	-.004	0	%100
41	SRB-2	X	-.004	-.004	0	%100
42	SRB-3	X	-.01	-.01	0	%100
43	SRC-1	X	-.005	-.005	0	%100
44	SRC-2	X	-.005	-.005	0	%100
45	SRC-3	X	-.012	-.012	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	SA1	X	-.007	-.007	0	%100
2	SA2	X	-.015	-.015	0	%100
3	SA3	X	-.005	-.005	0	%100
4	GSI1	X	-.015	-.015	0	%100
5	GSI2	X	0	0	0	%100
6	GSI3	X	-.017	-.017	0	%100
7	FF-H2-3	X	-.019	-.019	0	%100



Company : Tower Engineering Professionals  
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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....]	Start Location[ft.%]	End Location[ft.%]	
8	SF1-H2-3	X	-0.16	-0.16	0	%100
9	SF2-H2-1	X	0	0	0	%100
10	GSi4	X	-0.14	-0.14	0	%100
11	GSi5	X	0	0	0	%100
12	GSi6	X	-0.16	-0.16	0	%100
13	GSi7	X	-0.13	-0.13	0	%100
14	GSi8	X	0	0	0	%100
15	GSi9	X	-0.15	-0.15	0	%100
16	GSC2	X	0	0	0	%100
17	GSC1	X	-0.12	-0.12	0	%100
18	GSC3	X	-0.12	-0.12	0	%100
19	SF1-H2-2	X	-0.16	-0.16	0	%100
20	FF-H2-2	X	-0.19	-0.19	0	%100
21	SF2-H2-2	X	0	0	0	%100
22	SF1-H2-1	X	-0.16	-0.16	0	%100
23	FF-H2-1	X	-0.19	-0.19	0	%100
24	SF2-H2-3	X	0	0	0	%100
25	MP-3	X	-0.08	-0.08	0	%100
26	MP-1	X	-0.08	-0.08	0	%100
27	MP-2	X	-0.08	-0.08	0	%100
28	MP-2B	X	-0.07	-0.07	0	%100
29	MP-9	X	-0.08	-0.08	0	%100
30	MP-7	X	-0.08	-0.08	0	%100
31	MP-8	X	-0.08	-0.08	0	%100
32	MP-8B	X	-0.07	-0.07	0	%100
33	MP-6	X	-0.08	-0.08	0	%100
34	MP-4	X	-0.08	-0.08	0	%100
35	MP-5	X	-0.08	-0.08	0	%100
36	MP-5B	X	-0.07	-0.07	0	%100
37	FF-SR	X	-0.09	-0.09	0	%100
38	SF2-SR	X	0	0	0	%100
39	SF1-SR	X	-0.09	-0.09	0	%100
40	SRB-1	X	-0.06	-0.06	0	%100
41	SRB-2	X	0	0	0	%100
42	SRB-3	X	-0.07	-0.07	0	%100
43	SRC-1	X	-0.08	-0.08	0	%100
44	SRC-2	X	0	0	0	%100
45	SRC-3	X	-0.09	-0.09	0	%100
46	SA1	Z	-0.04	-0.04	0	%100
47	SA2	Z	-0.07	-0.07	0	%100
48	SA3	Z	-0.04	-0.04	0	%100
49	GSi1	Z	-0.1	-0.1	0	%100
50	GSi2	Z	0	0	0	%100
51	GSi3	Z	-0.1	-0.1	0	%100
52	FF-H2-3	Z	-0.11	-0.11	0	%100
53	SF1-H2-3	Z	-0.1	-0.1	0	%100
54	SF2-H2-1	Z	0	0	0	%100
55	GSi4	Z	-0.09	-0.09	0	%100
56	GSi5	Z	0	0	0	%100
57	GSi6	Z	-0.09	-0.09	0	%100
58	GSi7	Z	-0.08	-0.08	0	%100
59	GSi8	Z	0	0	0	%100
60	GSi9	Z	-0.08	-0.08	0	%100
61	GSC2	Z	0	0	0	%100
62	GSC1	Z	-0.07	-0.07	0	%100
63	GSC3	Z	-0.07	-0.07	0	%100
64	SF1-H2-2	Z	-0.1	-0.1	0	%100



Company : Tower Engineering Professionals  
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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....]	Start Location[ft.%]	End Location[ft.%]	
65	FF-H2-2	Z	-0.11	-0.11	0	%100
66	SF2-H2-2	Z	0	0	0	%100
67	SF1-H2-1	Z	-0.1	-0.1	0	%100
68	FF-H2-1	Z	-0.11	-0.11	0	%100
69	SF2-H2-3	Z	0	0	0	%100
70	MP-3	Z	-0.05	-0.05	0	%100
71	MP-1	Z	-0.05	-0.05	0	%100
72	MP-2	Z	-0.05	-0.05	0	%100
73	MP-2B	Z	-0.04	-0.04	0	%100
74	MP-9	Z	-0.05	-0.05	0	%100
75	MP-7	Z	-0.05	-0.05	0	%100
76	MP-8	Z	-0.05	-0.05	0	%100
77	MP-8B	Z	-0.04	-0.04	0	%100
78	MP-6	Z	-0.05	-0.05	0	%100
79	MP-4	Z	-0.05	-0.05	0	%100
80	MP-5	Z	-0.05	-0.05	0	%100
81	MP-5B	Z	-0.04	-0.04	0	%100
82	FF-SR	Z	-0.05	-0.05	0	%100
83	SF2-SR	Z	0	0	0	%100
84	SF1-SR	Z	-0.05	-0.05	0	%100
85	SRB-1	Z	-0.04	-0.04	0	%100
86	SRB-2	Z	0	0	0	%100
87	SRB-3	Z	-0.04	-0.04	0	%100
88	SRC-1	Z	-0.05	-0.05	0	%100
89	SRC-2	Z	0	0	0	%100
90	SRC-3	Z	-0.05	-0.05	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft....]	Start Location[ft.%]	End Location[ft.%]	
1	SA1	X	-0.03	-0.03	0	%100
2	SA2	X	-0.12	-0.12	0	%100
3	SA3	X	-0.06	-0.06	0	%100
4	GSi1	X	-0.13	-0.13	0	%100
5	GSi2	X	-0.04	-0.04	0	%100
6	GSi3	X	-0.12	-0.12	0	%100
7	FF-H2-3	X	-0.13	-0.13	0	%100
8	SF1-H2-3	X	-0.15	-0.15	0	%100
9	SF2-H2-1	X	-0.04	-0.04	0	%100
10	GSi4	X	-0.13	-0.13	0	%100
11	GSi5	X	-0.03	-0.03	0	%100
12	GSi6	X	-0.11	-0.11	0	%100
13	GSi7	X	-0.12	-0.12	0	%100
14	GSi8	X	-0.03	-0.03	0	%100
15	GSi9	X	-0.1	-0.1	0	%100
16	GSC2	X	-0.03	-0.03	0	%100
17	GSC1	X	-0.11	-0.11	0	%100
18	GSC3	X	-0.08	-0.08	0	%100
19	SF1-H2-2	X	-0.15	-0.15	0	%100
20	FF-H2-2	X	-0.12	-0.12	0	%100
21	SF2-H2-2	X	-0.04	-0.04	0	%100
22	SF1-H2-1	X	-0.15	-0.15	0	%100
23	FF-H2-1	X	-0.13	-0.13	0	%100
24	SF2-H2-3	X	-0.04	-0.04	0	%100
25	MP-3	X	-0.07	-0.07	0	%100
26	MP-1	X	-0.07	-0.07	0	%100
27	MP-2	X	-0.07	-0.07	0	%100





Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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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....]	Start Location[ft.%]	End Location[ft.%]
28	MP-2B	X	-0.06	-0.06	0 %100
29	MP-9	X	-0.07	-0.07	0 %100
30	MP-7	X	-0.07	-0.07	0 %100
31	MP-8	X	-0.07	-0.07	0 %100
32	MP-8B	X	-0.06	-0.06	0 %100
33	MP-6	X	-0.07	-0.07	0 %100
34	MP-4	X	-0.07	-0.07	0 %100
35	MP-5	X	-0.07	-0.07	0 %100
36	MP-5B	X	-0.06	-0.06	0 %100
37	FF-SR	X	-0.06	-0.06	0 %100
38	SF2-SR	X	-0.02	-0.02	0 %100
39	SF1-SR	X	-0.08	-0.08	0 %100
40	SRB-1	X	-0.05	-0.05	0 %100
41	SRB-2	X	-0.01	-0.01	0 %100
42	SRB-3	X	-0.05	-0.05	0 %100
43	SRC-1	X	-0.07	-0.07	0 %100
44	SRC-2	X	-0.02	-0.02	0 %100
45	SRC-3	X	-0.06	-0.06	0 %100
46	SA1	Z	-0.03	-0.03	0 %100
47	SA2	Z	-0.1	-0.1	0 %100
48	SA3	Z	-0.09	-0.09	0 %100
49	GSI1	Z	-0.15	-0.15	0 %100
50	GSI2	Z	-0.04	-0.04	0 %100
51	GSI3	Z	-0.12	-0.12	0 %100
52	FF-H2-3	Z	-0.13	-0.13	0 %100
53	SF1-H2-3	Z	-0.16	-0.16	0 %100
54	SF2-H2-1	Z	-0.04	-0.04	0 %100
55	GSI4	Z	-0.14	-0.14	0 %100
56	GSI5	Z	-0.04	-0.04	0 %100
57	GSI6	Z	-0.11	-0.11	0 %100
58	GSI7	Z	-0.13	-0.13	0 %100
59	GSI8	Z	-0.03	-0.03	0 %100
60	GSI9	Z	-0.1	-0.1	0 %100
61	GSC2	Z	-0.03	-0.03	0 %100
62	GSC1	Z	-0.11	-0.11	0 %100
63	GSC3	Z	-0.08	-0.08	0 %100
64	SF1-H2-2	Z	-0.17	-0.17	0 %100
65	FF-H2-2	Z	-0.12	-0.12	0 %100
66	SF2-H2-2	Z	-0.04	-0.04	0 %100
67	SF1-H2-1	Z	-0.16	-0.16	0 %100
68	FF-H2-1	Z	-0.13	-0.13	0 %100
69	SF2-H2-3	Z	-0.04	-0.04	0 %100
70	MP-3	Z	-0.07	-0.07	0 %100
71	MP-1	Z	-0.07	-0.07	0 %100
72	MP-2	Z	-0.07	-0.07	0 %100
73	MP-2B	Z	-0.06	-0.06	0 %100
74	MP-9	Z	-0.07	-0.07	0 %100
75	MP-7	Z	-0.07	-0.07	0 %100
76	MP-8	Z	-0.07	-0.07	0 %100
77	MP-8B	Z	-0.06	-0.06	0 %100
78	MP-6	Z	-0.07	-0.07	0 %100
79	MP-4	Z	-0.07	-0.07	0 %100
80	MP-5	Z	-0.07	-0.07	0 %100
81	MP-5B	Z	-0.06	-0.06	0 %100
82	FF-SR	Z	-0.06	-0.06	0 %100
83	SF2-SR	Z	-0.02	-0.02	0 %100
84	SF1-SR	Z	-0.08	-0.08	0 %100



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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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....]	Start Location[ft.%]	End Location[ft.%]
85	SRB-1	Z	-0.06	-0.06	0 %100
86	SRB-2	Z	-0.02	-0.02	0 %100
87	SRB-3	Z	-0.05	-0.05	0 %100
88	SRC-1	Z	-0.08	-0.08	0 %100
89	SRC-2	Z	-0.02	-0.02	0 %100
90	SRC-3	Z	-0.06	-0.06	0 %100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft....]	Start Location[ft.%]	End Location[ft.%]
1	SA1	X	0	0	0 %100
2	SA2	X	-0.07	-0.07	0 %100
3	SA3	X	-0.05	-0.05	0 %100
4	GSI1	X	-0.1	-0.1	0 %100
5	GSI2	X	-0.05	-0.05	0 %100
6	GSI3	X	-0.06	-0.06	0 %100
7	FF-H2-3	X	-0.06	-0.06	0 %100
8	SF1-H2-3	X	-0.11	-0.11	0 %100
9	SF2-H2-1	X	-0.05	-0.05	0 %100
10	GSI4	X	-0.09	-0.09	0 %100
11	GSI5	X	-0.05	-0.05	0 %100
12	GSI6	X	-0.05	-0.05	0 %100
13	GSI7	X	-0.09	-0.09	0 %100
14	GSI8	X	-0.04	-0.04	0 %100
15	GSI9	X	-0.05	-0.05	0 %100
16	GSC2	X	-0.04	-0.04	0 %100
17	GSC1	X	-0.08	-0.08	0 %100
18	GSC3	X	-0.04	-0.04	0 %100
19	SF1-H2-2	X	-0.11	-0.11	0 %100
20	FF-H2-2	X	-0.06	-0.06	0 %100
21	SF2-H2-2	X	-0.05	-0.05	0 %100
22	SF1-H2-1	X	-0.11	-0.11	0 %100
23	FF-H2-1	X	-0.06	-0.06	0 %100
24	SF2-H2-3	X	-0.05	-0.05	0 %100
25	MP-3	X	-0.05	-0.05	0 %100
26	MP-1	X	-0.05	-0.05	0 %100
27	MP-2	X	-0.05	-0.05	0 %100
28	MP-2B	X	-0.04	-0.04	0 %100
29	MP-9	X	-0.05	-0.05	0 %100
30	MP-7	X	-0.05	-0.05	0 %100
31	MP-8	X	-0.05	-0.05	0 %100
32	MP-8B	X	-0.04	-0.04	0 %100
33	MP-6	X	-0.05	-0.05	0 %100
34	MP-4	X	-0.05	-0.05	0 %100
35	MP-5	X	-0.05	-0.05	0 %100
36	MP-5B	X	-0.04	-0.04	0 %100
37	FF-SR	X	-0.03	-0.03	0 %100
38	SF2-SR	X	-0.03	-0.03	0 %100
39	SF1-SR	X	-0.06	-0.06	0 %100
40	SRB-1	X	-0.04	-0.04	0 %100
41	SRB-2	X	-0.02	-0.02	0 %100
42	SRB-3	X	-0.02	-0.02	0 %100
43	SRC-1	X	-0.05	-0.05	0 %100
44	SRC-2	X	-0.03	-0.03	0 %100
45	SRC-3	X	-0.03	-0.03	0 %100
46	SA1	Z	0	0	0 %100
47	SA2	Z	-0.11	-0.11	0 %100



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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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.%]	
48	SA3	Z	-0.13	-0.13	0	%100
49	GS11	Z	-0.19	-0.19	0	%100
50	GS12	Z	-0.1	-0.1	0	%100
51	GS13	Z	-0.1	-0.1	0	%100
52	FF-H2-3	Z	-0.11	-0.11	0	%100
53	SF1-H2-3	Z	-0.21	-0.21	0	%100
54	SF2-H2-1	Z	-0.1	-0.1	0	%100
55	GS14	Z	-0.18	-0.18	0	%100
56	GS15	Z	-0.09	-0.09	0	%100
57	GS16	Z	-0.09	-0.09	0	%100
58	GS17	Z	-0.16	-0.16	0	%100
59	GS18	Z	-0.08	-0.08	0	%100
60	GS19	Z	-0.08	-0.08	0	%100
61	GSC2	Z	-0.07	-0.07	0	%100
62	GSC1	Z	-0.14	-0.14	0	%100
63	GSC3	Z	-0.07	-0.07	0	%100
64	SF1-H2-2	Z	-0.21	-0.21	0	%100
65	FF-H2-2	Z	-0.11	-0.11	0	%100
66	SF2-H2-2	Z	-0.1	-0.1	0	%100
67	SF1-H2-1	Z	-0.21	-0.21	0	%100
68	FF-H2-1	Z	-0.11	-0.11	0	%100
69	SF2-H2-3	Z	-0.1	-0.1	0	%100
70	MP-3	Z	-0.08	-0.08	0	%100
71	MP-1	Z	-0.08	-0.08	0	%100
72	MP-2	Z	-0.08	-0.08	0	%100
73	MP-2B	Z	-0.07	-0.07	0	%100
74	MP-9	Z	-0.08	-0.08	0	%100
75	MP-7	Z	-0.08	-0.08	0	%100
76	MP-8	Z	-0.08	-0.08	0	%100
77	MP-8B	Z	-0.07	-0.07	0	%100
78	MP-6	Z	-0.08	-0.08	0	%100
79	MP-4	Z	-0.08	-0.08	0	%100
80	MP-5	Z	-0.08	-0.08	0	%100
81	MP-5B	Z	-0.07	-0.07	0	%100
82	FF-SR	Z	-0.05	-0.05	0	%100
83	SF2-SR	Z	-0.05	-0.05	0	%100
84	SF1-SR	Z	-0.1	-0.1	0	%100
85	SRB-1	Z	-0.08	-0.08	0	%100
86	SRB-2	Z	-0.04	-0.04	0	%100
87	SRB-3	Z	-0.04	-0.04	0	%100
88	SRC-1	Z	-0.1	-0.1	0	%100
89	SRC-2	Z	-0.05	-0.05	0	%100
90	SRC-3	Z	-0.05	-0.05	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	SA1	Z	-0.07	-0.07	0	%100
2	SA2	Z	-0.07	-0.07	0	%100
3	SA3	Z	-0.18	-0.18	0	%100
4	GS11	Z	-0.19	-0.19	0	%100
5	GS12	Z	-0.19	-0.19	0	%100
6	GS13	Z	0	0	0	%100
7	FF-H2-3	Z	0	0	0	%100
8	SF1-H2-3	Z	-0.21	-0.21	0	%100
9	SF2-H2-1	Z	-0.21	-0.21	0	%100
10	GS14	Z	-0.18	-0.18	0	%100



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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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.%]	
11	GS15	Z	-0.18	-0.18	0	%100
12	GS16	Z	0	0	0	%100
13	GS17	Z	-0.16	-0.16	0	%100
14	GS18	Z	-0.16	-0.16	0	%100
15	GS19	Z	0	0	0	%100
16	GSC2	Z	-0.14	-0.14	0	%100
17	GSC1	Z	-0.14	-0.14	0	%100
18	GSC3	Z	0	0	0	%100
19	SF1-H2-2	Z	-0.21	-0.21	0	%100
20	FF-H2-2	Z	0	0	0	%100
21	SF2-H2-2	Z	-0.21	-0.21	0	%100
22	SF1-H2-1	Z	-0.21	-0.21	0	%100
23	FF-H2-1	Z	0	0	0	%100
24	SF2-H2-3	Z	-0.21	-0.21	0	%100
25	MP-3	Z	-0.1	-0.1	0	%100
26	MP-1	Z	-0.1	-0.1	0	%100
27	MP-2	Z	-0.1	-0.1	0	%100
28	MP-2B	Z	-0.08	-0.08	0	%100
29	MP-9	Z	-0.1	-0.1	0	%100
30	MP-7	Z	-0.1	-0.1	0	%100
31	MP-8	Z	-0.1	-0.1	0	%100
32	MP-8B	Z	-0.08	-0.08	0	%100
33	MP-6	Z	-0.1	-0.1	0	%100
34	MP-4	Z	-0.1	-0.1	0	%100
35	MP-5	Z	-0.1	-0.1	0	%100
36	MP-5B	Z	-0.08	-0.08	0	%100
37	FF-SR	Z	0	0	0	%100
38	SF2-SR	Z	-0.1	-0.1	0	%100
39	SF1-SR	Z	-0.1	-0.1	0	%100
40	SRB-1	Z	-0.08	-0.08	0	%100
41	SRB-2	Z	-0.08	-0.08	0	%100
42	SRB-3	Z	0	0	0	%100
43	SRC-1	Z	-0.1	-0.1	0	%100
44	SRC-2	Z	-0.1	-0.1	0	%100
45	SRC-3	Z	0	0	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	SA1	X	.007	.007	0	%100
2	SA2	X	0	0	0	%100
3	SA3	X	.005	.005	0	%100
4	GS11	X	.005	.005	0	%100
5	GS12	X	.01	.01	0	%100
6	GS13	X	.006	.006	0	%100
7	FF-H2-3	X	.006	.006	0	%100
8	SF1-H2-3	X	.005	.005	0	%100
9	SF2-H2-1	X	.011	.011	0	%100
10	GS14	X	.005	.005	0	%100
11	GS15	X	.009	.009	0	%100
12	GS16	X	.005	.005	0	%100
13	GS17	X	.004	.004	0	%100
14	GS18	X	.009	.009	0	%100
15	GS19	X	.005	.005	0	%100
16	GSC2	X	.008	.008	0	%100
17	GSC1	X	.004	.004	0	%100
18	GSC3	X	.004	.004	0	%100



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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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.%]	
19	SF1-H2-2	X	.005	.005	0	%100
20	FF-H2-2	X	.006	.006	0	%100
21	SF2-H2-2	X	.011	.011	0	%100
22	SF1-H2-1	X	.005	.005	0	%100
23	FF-H2-1	X	.006	.006	0	%100
24	SF2-H2-3	X	.011	.011	0	%100
25	MP-3	X	.005	.005	0	%100
26	MP-1	X	.005	.005	0	%100
27	MP-2	X	.005	.005	0	%100
28	MP-2B	X	.004	.004	0	%100
29	MP-9	X	.005	.005	0	%100
30	MP-7	X	.005	.005	0	%100
31	MP-8	X	.005	.005	0	%100
32	MP-8B	X	.004	.004	0	%100
33	MP-6	X	.005	.005	0	%100
34	MP-4	X	.005	.005	0	%100
35	MP-5	X	.005	.005	0	%100
36	MP-5B	X	.004	.004	0	%100
37	FF-SR	X	.003	.003	0	%100
38	SF2-SR	X	.006	.006	0	%100
39	SF1-SR	X	.003	.003	0	%100
40	SRB-1	X	.002	.002	0	%100
41	SRB-2	X	.004	.004	0	%100
42	SRB-3	X	.002	.002	0	%100
43	SRC-1	X	.003	.003	0	%100
44	SRC-2	X	.005	.005	0	%100
45	SRC-3	X	.003	.003	0	%100
46	SA1	Z	-.011	-.011	0	%100
47	SA2	Z	0	0	0	%100
48	SA3	Z	-.013	-.013	0	%100
49	GSI1	Z	-.01	-.01	0	%100
50	GSI2	Z	-.019	-.019	0	%100
51	GSI3	Z	-.01	-.01	0	%100
52	FF-H2-3	Z	-.011	-.011	0	%100
53	SF1-H2-3	Z	-.01	-.01	0	%100
54	SF2-H2-1	Z	-.021	-.021	0	%100
55	GSI4	Z	-.009	-.009	0	%100
56	GSI5	Z	-.018	-.018	0	%100
57	GSI6	Z	-.009	-.009	0	%100
58	GSI7	Z	-.008	-.008	0	%100
59	GSI8	Z	-.016	-.016	0	%100
60	GSI9	Z	-.008	-.008	0	%100
61	GSC2	Z	-.014	-.014	0	%100
62	GSC1	Z	-.007	-.007	0	%100
63	GSC3	Z	-.007	-.007	0	%100
64	SF1-H2-2	Z	-.01	-.01	0	%100
65	FF-H2-2	Z	-.011	-.011	0	%100
66	SF2-H2-2	Z	-.021	-.021	0	%100
67	SF1-H2-1	Z	-.01	-.01	0	%100
68	FF-H2-1	Z	-.011	-.011	0	%100
69	SF2-H2-3	Z	-.021	-.021	0	%100
70	MP-3	Z	-.008	-.008	0	%100
71	MP-1	Z	-.008	-.008	0	%100
72	MP-2	Z	-.008	-.008	0	%100
73	MP-2B	Z	-.007	-.007	0	%100
74	MP-9	Z	-.008	-.008	0	%100
75	MP-7	Z	-.008	-.008	0	%100



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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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.%]	
76	MP-8	Z	-.008	-.008	0	%100
77	MP-8B	Z	-.007	-.007	0	%100
78	MP-6	Z	-.008	-.008	0	%100
79	MP-4	Z	-.008	-.008	0	%100
80	MP-5	Z	-.008	-.008	0	%100
81	MP-5B	Z	-.007	-.007	0	%100
82	FF-SR	Z	-.005	-.005	0	%100
83	SF2-SR	Z	-.01	-.01	0	%100
84	SF1-SR	Z	-.005	-.005	0	%100
85	SRB-1	Z	-.004	-.004	0	%100
86	SRB-2	Z	-.008	-.008	0	%100
87	SRB-3	Z	-.004	-.004	0	%100
88	SRC-1	Z	-.005	-.005	0	%100
89	SRC-2	Z	-.01	-.01	0	%100
90	SRC-3	Z	-.005	-.005	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	SA1	X	.012	.012	0	%100
2	SA2	X	.003	.003	0	%100
3	SA3	X	.006	.006	0	%100
4	GSI1	X	.004	.004	0	%100
5	GSI2	X	.013	.013	0	%100
6	GSI3	X	.012	.012	0	%100
7	FF-H2-3	X	.013	.013	0	%100
8	SF1-H2-3	X	.004	.004	0	%100
9	SF2-H2-1	X	.015	.015	0	%100
10	GSI4	X	.003	.003	0	%100
11	GSI5	X	.013	.013	0	%100
12	GSI6	X	.011	.011	0	%100
13	GSI7	X	.003	.003	0	%100
14	GSI8	X	.012	.012	0	%100
15	GSI9	X	.01	.01	0	%100
16	GSC2	X	.011	.011	0	%100
17	GSC1	X	.003	.003	0	%100
18	GSC3	X	.008	.008	0	%100
19	SF1-H2-2	X	.004	.004	0	%100
20	FF-H2-2	X	.012	.012	0	%100
21	SF2-H2-2	X	.015	.015	0	%100
22	SF1-H2-1	X	.004	.004	0	%100
23	FF-H2-1	X	.013	.013	0	%100
24	SF2-H2-3	X	.015	.015	0	%100
25	MP-3	X	.007	.007	0	%100
26	MP-1	X	.007	.007	0	%100
27	MP-2	X	.007	.007	0	%100
28	MP-2B	X	.006	.006	0	%100
29	MP-9	X	.007	.007	0	%100
30	MP-7	X	.007	.007	0	%100
31	MP-8	X	.007	.007	0	%100
32	MP-8B	X	.006	.006	0	%100
33	MP-6	X	.007	.007	0	%100
34	MP-4	X	.007	.007	0	%100
35	MP-5	X	.007	.007	0	%100
36	MP-5B	X	.006	.006	0	%100
37	FF-SR	X	.006	.006	0	%100
38	SF2-SR	X	.008	.008	0	%100



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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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.%]	
39	SF1-SR	X	.002	.002	0	%100
40	SRB-1	X	.001	.001	0	%100
41	SRB-2	X	.005	.005	0	%100
42	SRB-3	X	.005	.005	0	%100
43	SRC-1	X	.002	.002	0	%100
44	SRC-2	X	.007	.007	0	%100
45	SRC-3	X	.006	.006	0	%100
46	SA1	Z	-.01	-.01	0	%100
47	SA2	Z	-.003	-.003	0	%100
48	SA3	Z	-.009	-.009	0	%100
49	GS1	Z	-.004	-.004	0	%100
50	GS2	Z	-.015	-.015	0	%100
51	GS3	Z	-.012	-.012	0	%100
52	FF-H2-3	Z	-.013	-.013	0	%100
53	SF1-H2-3	Z	-.004	-.004	0	%100
54	SF2-H2-1	Z	-.016	-.016	0	%100
55	GS4	Z	-.004	-.004	0	%100
56	GS5	Z	-.014	-.014	0	%100
57	GS6	Z	-.011	-.011	0	%100
58	GS7	Z	-.003	-.003	0	%100
59	GS8	Z	-.013	-.013	0	%100
60	GS9	Z	-.01	-.01	0	%100
61	GSC2	Z	-.011	-.011	0	%100
62	GSC1	Z	-.003	-.003	0	%100
63	GSC3	Z	-.008	-.008	0	%100
64	SF1-H2-2	Z	-.004	-.004	0	%100
65	FF-H2-2	Z	-.012	-.012	0	%100
66	SF2-H2-2	Z	-.017	-.017	0	%100
67	SF1-H2-1	Z	-.004	-.004	0	%100
68	FF-H2-1	Z	-.013	-.013	0	%100
69	SF2-H2-3	Z	-.016	-.016	0	%100
70	MP-3	Z	-.007	-.007	0	%100
71	MP-1	Z	-.007	-.007	0	%100
72	MP-2	Z	-.007	-.007	0	%100
73	MP-2B	Z	-.006	-.006	0	%100
74	MP-9	Z	-.007	-.007	0	%100
75	MP-7	Z	-.007	-.007	0	%100
76	MP-8	Z	-.007	-.007	0	%100
77	MP-8B	Z	-.006	-.006	0	%100
78	MP-6	Z	-.007	-.007	0	%100
79	MP-4	Z	-.007	-.007	0	%100
80	MP-5	Z	-.007	-.007	0	%100
81	MP-5B	Z	-.006	-.006	0	%100
82	FF-SR	Z	-.006	-.006	0	%100
83	SF2-SR	Z	-.008	-.008	0	%100
84	SF1-SR	Z	-.002	-.002	0	%100
85	SRB-1	Z	-.002	-.002	0	%100
86	SRB-2	Z	-.006	-.006	0	%100
87	SRB-3	Z	-.005	-.005	0	%100
88	SRC-1	Z	-.002	-.002	0	%100
89	SRC-2	Z	-.008	-.008	0	%100
90	SRC-3	Z	-.006	-.006	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	SA1	X	.015	.015	0	%100



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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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.%]	
2	SA2	X	.007	.007	0	%100
3	SA3	X	.005	.005	0	%100
4	GS1	X	0	0	0	%100
5	GS2	X	.015	.015	0	%100
6	GS3	X	.017	.017	0	%100
7	FF-H2-3	X	.019	.019	0	%100
8	SF1-H2-3	X	0	0	0	%100
9	SF2-H2-1	X	.016	.016	0	%100
10	GS4	X	0	0	0	%100
11	GS5	X	.014	.014	0	%100
12	GS6	X	.016	.016	0	%100
13	GS7	X	0	0	0	%100
14	GS8	X	.013	.013	0	%100
15	GS9	X	.015	.015	0	%100
16	GSC2	X	.012	.012	0	%100
17	GSC1	X	0	0	0	%100
18	GSC3	X	.012	.012	0	%100
19	SF1-H2-2	X	0	0	0	%100
20	FF-H2-2	X	.019	.019	0	%100
21	SF2-H2-2	X	.016	.016	0	%100
22	SF1-H2-1	X	0	0	0	%100
23	FF-H2-1	X	.019	.019	0	%100
24	SF2-H2-3	X	.016	.016	0	%100
25	MP-3	X	.008	.008	0	%100
26	MP-1	X	.008	.008	0	%100
27	MP-2	X	.008	.008	0	%100
28	MP-2B	X	.007	.007	0	%100
29	MP-9	X	.008	.008	0	%100
30	MP-7	X	.008	.008	0	%100
31	MP-8	X	.008	.008	0	%100
32	MP-8B	X	.007	.007	0	%100
33	MP-6	X	.008	.008	0	%100
34	MP-4	X	.008	.008	0	%100
35	MP-5	X	.008	.008	0	%100
36	MP-5B	X	.007	.007	0	%100
37	FF-SR	X	.009	.009	0	%100
38	SF2-SR	X	.009	.009	0	%100
39	SF1-SR	X	0	0	0	%100
40	SRB-1	X	0	0	0	%100
41	SRB-2	X	.006	.006	0	%100
42	SRB-3	X	.007	.007	0	%100
43	SRC-1	X	0	0	0	%100
44	SRC-2	X	.008	.008	0	%100
45	SRC-3	X	.009	.009	0	%100
46	SA1	Z	-.007	-.007	0	%100
47	SA2	Z	-.004	-.004	0	%100
48	SA3	Z	-.004	-.004	0	%100
49	GS1	Z	0	0	0	%100
50	GS2	Z	-.01	-.01	0	%100
51	GS3	Z	-.01	-.01	0	%100
52	FF-H2-3	Z	-.011	-.011	0	%100
53	SF1-H2-3	Z	0	0	0	%100
54	SF2-H2-1	Z	-.01	-.01	0	%100
55	GS4	Z	0	0	0	%100
56	GS5	Z	-.009	-.009	0	%100
57	GS6	Z	-.009	-.009	0	%100
58	GS7	Z	0	0	0	%100



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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
59	GSi8	Z	-0.08	-0.08	0	%100
60	GSi9	Z	-0.08	-0.08	0	%100
61	GSC2	Z	-0.07	-0.07	0	%100
62	GSC1	Z	0	0	0	%100
63	GSC3	Z	-0.07	-0.07	0	%100
64	SF1-H2-2	Z	0	0	0	%100
65	FF-H2-2	Z	-0.11	-0.11	0	%100
66	SF2-H2-2	Z	-0.1	-0.1	0	%100
67	SF1-H2-1	Z	0	0	0	%100
68	FF-H2-1	Z	-0.11	-0.11	0	%100
69	SF2-H2-3	Z	-0.1	-0.1	0	%100
70	MP-3	Z	-0.05	-0.05	0	%100
71	MP-1	Z	-0.05	-0.05	0	%100
72	MP-2	Z	-0.05	-0.05	0	%100
73	MP-2B	Z	-0.04	-0.04	0	%100
74	MP-9	Z	-0.05	-0.05	0	%100
75	MP-7	Z	-0.05	-0.05	0	%100
76	MP-8	Z	-0.05	-0.05	0	%100
77	MP-8B	Z	-0.04	-0.04	0	%100
78	MP-6	Z	-0.05	-0.05	0	%100
79	MP-4	Z	-0.05	-0.05	0	%100
80	MP-5	Z	-0.05	-0.05	0	%100
81	MP-5B	Z	-0.04	-0.04	0	%100
82	FF-SR	Z	-0.05	-0.05	0	%100
83	SF2-SR	Z	-0.05	-0.05	0	%100
84	SF1-SR	Z	0	0	0	%100
85	SRB-1	Z	0	0	0	%100
86	SRB-2	Z	-0.04	-0.04	0	%100
87	SRB-3	Z	-0.04	-0.04	0	%100
88	SRC-1	Z	0	0	0	%100
89	SRC-2	Z	-0.05	-0.05	0	%100
90	SRC-3	Z	-0.05	-0.05	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	SA1	X	.015	.015	0	%100
2	SA2	X	.015	.015	0	%100
3	SA3	X	0	0	0	%100
4	GSi1	X	.01	.01	0	%100
5	GSi2	X	.01	.01	0	%100
6	GSi3	X	.023	.023	0	%100
7	FF-H2-3	X	.025	.025	0	%100
8	SF1-H2-3	X	.011	.011	0	%100
9	SF2-H2-1	X	.011	.011	0	%100
10	GSi4	X	.009	.009	0	%100
11	GSi5	X	.009	.009	0	%100
12	GSi6	X	.021	.021	0	%100
13	GSi7	X	.009	.009	0	%100
14	GSi8	X	.009	.009	0	%100
15	GSi9	X	.019	.019	0	%100
16	GSC2	X	.008	.008	0	%100
17	GSC1	X	.008	.008	0	%100
18	GSC3	X	.017	.017	0	%100
19	SF1-H2-2	X	.011	.011	0	%100
20	FF-H2-2	X	.025	.025	0	%100
21	SF2-H2-2	X	.011	.011	0	%100



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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
22	SF1-H2-1	X	.011	.011	0	%100
23	FF-H2-1	X	.025	.025	0	%100
24	SF2-H2-3	X	.011	.011	0	%100
25	MP-3	X	.01	.01	0	%100
26	MP-1	X	.01	.01	0	%100
27	MP-2	X	.01	.01	0	%100
28	MP-2B	X	.008	.008	0	%100
29	MP-9	X	.01	.01	0	%100
30	MP-7	X	.01	.01	0	%100
31	MP-8	X	.01	.01	0	%100
32	MP-8B	X	.008	.008	0	%100
33	MP-6	X	.01	.01	0	%100
34	MP-4	X	.01	.01	0	%100
35	MP-5	X	.01	.01	0	%100
36	MP-5B	X	.008	.008	0	%100
37	FF-SR	X	.011	.011	0	%100
38	SF2-SR	X	.006	.006	0	%100
39	SF1-SR	X	.006	.006	0	%100
40	SRB-1	X	.004	.004	0	%100
41	SRB-2	X	.004	.004	0	%100
42	SRB-3	X	.01	.01	0	%100
43	SRC-1	X	.005	.005	0	%100
44	SRC-2	X	.005	.005	0	%100
45	SRC-3	X	.012	.012	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	SA1	X	.007	.007	0	%100
2	SA2	X	.015	.015	0	%100
3	SA3	X	.005	.005	0	%100
4	GSi1	X	.015	.015	0	%100
5	GSi2	X	0	0	0	%100
6	GSi3	X	.017	.017	0	%100
7	FF-H2-3	X	.019	.019	0	%100
8	SF1-H2-3	X	.016	.016	0	%100
9	SF2-H2-1	X	0	0	0	%100
10	GSi4	X	.014	.014	0	%100
11	GSi5	X	0	0	0	%100
12	GSi6	X	.016	.016	0	%100
13	GSi7	X	.013	.013	0	%100
14	GSi8	X	0	0	0	%100
15	GSi9	X	.015	.015	0	%100
16	GSC2	X	0	0	0	%100
17	GSC1	X	.012	.012	0	%100
18	GSC3	X	.012	.012	0	%100
19	SF1-H2-2	X	.016	.016	0	%100
20	FF-H2-2	X	.019	.019	0	%100
21	SF2-H2-2	X	0	0	0	%100
22	SF1-H2-1	X	.016	.016	0	%100
23	FF-H2-1	X	.019	.019	0	%100
24	SF2-H2-3	X	0	0	0	%100
25	MP-3	X	.008	.008	0	%100
26	MP-1	X	.008	.008	0	%100
27	MP-2	X	.008	.008	0	%100
28	MP-2B	X	.007	.007	0	%100
29	MP-9	X	.008	.008	0	%100



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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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.%]	
30	MP-7	X	.008	.008	0	%100
31	MP-8	X	.008	.008	0	%100
32	MP-8B	X	.007	.007	0	%100
33	MP-6	X	.008	.008	0	%100
34	MP-4	X	.008	.008	0	%100
35	MP-5	X	.008	.008	0	%100
36	MP-5B	X	.007	.007	0	%100
37	FF-SR	X	.009	.009	0	%100
38	SF2-SR	X	0	0	0	%100
39	SF1-SR	X	.009	.009	0	%100
40	SRB-1	X	.006	.006	0	%100
41	SRB-2	X	0	0	0	%100
42	SRB-3	X	.007	.007	0	%100
43	SRC-1	X	.008	.008	0	%100
44	SRC-2	X	0	0	0	%100
45	SRC-3	X	.009	.009	0	%100
46	SA1	Z	.004	.004	0	%100
47	SA2	Z	.007	.007	0	%100
48	SA3	Z	.004	.004	0	%100
49	GS11	Z	.01	.01	0	%100
50	GS12	Z	0	0	0	%100
51	GS13	Z	.01	.01	0	%100
52	FF-H2-3	Z	.011	.011	0	%100
53	SF1-H2-3	Z	.01	.01	0	%100
54	SF2-H2-1	Z	0	0	0	%100
55	GS14	Z	.009	.009	0	%100
56	GS15	Z	0	0	0	%100
57	GS16	Z	.009	.009	0	%100
58	GS17	Z	.008	.008	0	%100
59	GS18	Z	0	0	0	%100
60	GS19	Z	.008	.008	0	%100
61	GSC2	Z	0	0	0	%100
62	GSC1	Z	.007	.007	0	%100
63	GSC3	Z	.007	.007	0	%100
64	SF1-H2-2	Z	.01	.01	0	%100
65	FF-H2-2	Z	.011	.011	0	%100
66	SF2-H2-2	Z	0	0	0	%100
67	SF1-H2-1	Z	.01	.01	0	%100
68	FF-H2-1	Z	.011	.011	0	%100
69	SF2-H2-3	Z	0	0	0	%100
70	MP-3	Z	.005	.005	0	%100
71	MP-1	Z	.005	.005	0	%100
72	MP-2	Z	.005	.005	0	%100
73	MP-2B	Z	.004	.004	0	%100
74	MP-9	Z	.005	.005	0	%100
75	MP-7	Z	.005	.005	0	%100
76	MP-8	Z	.005	.005	0	%100
77	MP-8B	Z	.004	.004	0	%100
78	MP-6	Z	.005	.005	0	%100
79	MP-4	Z	.005	.005	0	%100
80	MP-5	Z	.005	.005	0	%100
81	MP-5B	Z	.004	.004	0	%100
82	FF-SR	Z	.005	.005	0	%100
83	SF2-SR	Z	0	0	0	%100
84	SF1-SR	Z	.005	.005	0	%100
85	SRB-1	Z	.004	.004	0	%100
86	SRB-2	Z	0	0	0	%100



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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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.%]	
87	SRB-3	Z	.004	.004	0	%100
88	SRC-1	Z	.005	.005	0	%100
89	SRC-2	Z	0	0	0	%100
90	SRC-3	Z	.005	.005	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	SA1	X	.003	.003	0	%100
2	SA2	X	.012	.012	0	%100
3	SA3	X	.006	.006	0	%100
4	GS11	X	.013	.013	0	%100
5	GS12	X	.004	.004	0	%100
6	GS13	X	.012	.012	0	%100
7	FF-H2-3	X	.013	.013	0	%100
8	SF1-H2-3	X	.015	.015	0	%100
9	SF2-H2-1	X	.004	.004	0	%100
10	GS14	X	.013	.013	0	%100
11	GS15	X	.003	.003	0	%100
12	GS16	X	.011	.011	0	%100
13	GS17	X	.012	.012	0	%100
14	GS18	X	.003	.003	0	%100
15	GS19	X	.01	.01	0	%100
16	GSC2	X	.003	.003	0	%100
17	GSC1	X	.011	.011	0	%100
18	GSC3	X	.008	.008	0	%100
19	SF1-H2-2	X	.015	.015	0	%100
20	FF-H2-2	X	.012	.012	0	%100
21	SF2-H2-2	X	.004	.004	0	%100
22	SF1-H2-1	X	.015	.015	0	%100
23	FF-H2-1	X	.013	.013	0	%100
24	SF2-H2-3	X	.004	.004	0	%100
25	MP-3	X	.007	.007	0	%100
26	MP-1	X	.007	.007	0	%100
27	MP-2	X	.007	.007	0	%100
28	MP-2B	X	.006	.006	0	%100
29	MP-9	X	.007	.007	0	%100
30	MP-7	X	.007	.007	0	%100
31	MP-8	X	.007	.007	0	%100
32	MP-8B	X	.006	.006	0	%100
33	MP-6	X	.007	.007	0	%100
34	MP-4	X	.007	.007	0	%100
35	MP-5	X	.007	.007	0	%100
36	MP-5B	X	.006	.006	0	%100
37	FF-SR	X	.006	.006	0	%100
38	SF2-SR	X	.002	.002	0	%100
39	SF1-SR	X	.008	.008	0	%100
40	SRB-1	X	.005	.005	0	%100
41	SRB-2	X	.001	.001	0	%100
42	SRB-3	X	.005	.005	0	%100
43	SRC-1	X	.007	.007	0	%100
44	SRC-2	X	.002	.002	0	%100
45	SRC-3	X	.006	.006	0	%100
46	SA1	Z	.003	.003	0	%100
47	SA2	Z	.01	.01	0	%100
48	SA3	Z	.009	.009	0	%100
49	GS11	Z	.015	.015	0	%100





Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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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.%]	
50	GS12	Z	.004	.004	0	%100
51	GS13	Z	.012	.012	0	%100
52	FF-H2-3	Z	.013	.013	0	%100
53	SF1-H2-3	Z	.016	.016	0	%100
54	SF2-H2-1	Z	.004	.004	0	%100
55	GS14	Z	.014	.014	0	%100
56	GS15	Z	.004	.004	0	%100
57	GS16	Z	.011	.011	0	%100
58	GS17	Z	.013	.013	0	%100
59	GS18	Z	.003	.003	0	%100
60	GS19	Z	.01	.01	0	%100
61	GSC2	Z	.003	.003	0	%100
62	GSC1	Z	.011	.011	0	%100
63	GSC3	Z	.008	.008	0	%100
64	SF1-H2-2	Z	.017	.017	0	%100
65	FF-H2-2	Z	.012	.012	0	%100
66	SF2-H2-2	Z	.004	.004	0	%100
67	SF1-H2-1	Z	.016	.016	0	%100
68	FF-H2-1	Z	.013	.013	0	%100
69	SF2-H2-3	Z	.004	.004	0	%100
70	MP-3	Z	.007	.007	0	%100
71	MP-1	Z	.007	.007	0	%100
72	MP-2	Z	.007	.007	0	%100
73	MP-2B	Z	.006	.006	0	%100
74	MP-9	Z	.007	.007	0	%100
75	MP-7	Z	.007	.007	0	%100
76	MP-8	Z	.007	.007	0	%100
77	MP-8B	Z	.006	.006	0	%100
78	MP-6	Z	.007	.007	0	%100
79	MP-4	Z	.007	.007	0	%100
80	MP-5	Z	.007	.007	0	%100
81	MP-5B	Z	.006	.006	0	%100
82	FF-SR	Z	.006	.006	0	%100
83	SF2-SR	Z	.002	.002	0	%100
84	SF1-SR	Z	.008	.008	0	%100
85	SRB-1	Z	.006	.006	0	%100
86	SRB-2	Z	.002	.002	0	%100
87	SRB-3	Z	.005	.005	0	%100
88	SRC-1	Z	.008	.008	0	%100
89	SRC-2	Z	.002	.002	0	%100
90	SRC-3	Z	.006	.006	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	SA1	X	0	0	%100	
2	SA2	X	.007	.007	0	%100
3	SA3	X	.005	.005	0	%100
4	GS11	X	.01	.01	0	%100
5	GS12	X	.005	.005	0	%100
6	GS13	X	.006	.006	0	%100
7	FF-H2-3	X	.006	.006	0	%100
8	SF1-H2-3	X	.011	.011	0	%100
9	SF2-H2-1	X	.005	.005	0	%100
10	GS14	X	.009	.009	0	%100
11	GS15	X	.005	.005	0	%100
12	GS16	X	.005	.005	0	%100



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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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	GS17	X	.009	.009	0	%100
14	GS18	X	.004	.004	0	%100
15	GS19	X	.005	.005	0	%100
16	GSC2	X	.004	.004	0	%100
17	GSC1	X	.008	.008	0	%100
18	GSC3	X	.004	.004	0	%100
19	SF1-H2-2	X	.011	.011	0	%100
20	FF-H2-2	X	.006	.006	0	%100
21	SF2-H2-2	X	.005	.005	0	%100
22	SF1-H2-1	X	.011	.011	0	%100
23	FF-H2-1	X	.006	.006	0	%100
24	SF2-H2-3	X	.005	.005	0	%100
25	MP-3	X	.005	.005	0	%100
26	MP-1	X	.005	.005	0	%100
27	MP-2	X	.005	.005	0	%100
28	MP-2B	X	.004	.004	0	%100
29	MP-9	X	.005	.005	0	%100
30	MP-7	X	.005	.005	0	%100
31	MP-8	X	.005	.005	0	%100
32	MP-8B	X	.004	.004	0	%100
33	MP-6	X	.005	.005	0	%100
34	MP-4	X	.005	.005	0	%100
35	MP-5	X	.005	.005	0	%100
36	MP-5B	X	.004	.004	0	%100
37	FF-SR	X	.003	.003	0	%100
38	SF2-SR	X	.003	.003	0	%100
39	SF1-SR	X	.006	.006	0	%100
40	SRB-1	X	.004	.004	0	%100
41	SRB-2	X	.002	.002	0	%100
42	SRB-3	X	.002	.002	0	%100
43	SRC-1	X	.005	.005	0	%100
44	SRC-2	X	.003	.003	0	%100
45	SRC-3	X	.003	.003	0	%100
46	SA1	Z	0	0	0	%100
47	SA2	Z	.011	.011	0	%100
48	SA3	Z	.013	.013	0	%100
49	GS11	Z	.019	.019	0	%100
50	GS12	Z	.01	.01	0	%100
51	GS13	Z	.01	.01	0	%100
52	FF-H2-3	Z	.011	.011	0	%100
53	SF1-H2-3	Z	.021	.021	0	%100
54	SF2-H2-1	Z	.01	.01	0	%100
55	GS14	Z	.018	.018	0	%100
56	GS15	Z	.009	.009	0	%100
57	GS16	Z	.009	.009	0	%100
58	GS17	Z	.016	.016	0	%100
59	GS18	Z	.008	.008	0	%100
60	GS19	Z	.008	.008	0	%100
61	GSC2	Z	.007	.007	0	%100
62	GSC1	Z	.014	.014	0	%100
63	GSC3	Z	.007	.007	0	%100
64	SF1-H2-2	Z	.021	.021	0	%100
65	FF-H2-2	Z	.011	.011	0	%100
66	SF2-H2-2	Z	.01	.01	0	%100
67	SF1-H2-1	Z	.021	.021	0	%100
68	FF-H2-1	Z	.011	.011	0	%100
69	SF2-H2-3	Z	.01	.01	0	%100



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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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	MP-3	Z	.008	.008	0	%100
71	MP-1	Z	.008	.008	0	%100
72	MP-2	Z	.008	.008	0	%100
73	MP-2B	Z	.007	.007	0	%100
74	MP-9	Z	.008	.008	0	%100
75	MP-7	Z	.008	.008	0	%100
76	MP-8	Z	.008	.008	0	%100
77	MP-8B	Z	.007	.007	0	%100
78	MP-6	Z	.008	.008	0	%100
79	MP-4	Z	.008	.008	0	%100
80	MP-5	Z	.008	.008	0	%100
81	MP-5B	Z	.007	.007	0	%100
82	FF-SR	Z	.005	.005	0	%100
83	SF2-SR	Z	.005	.005	0	%100
84	SF1-SR	Z	.01	.01	0	%100
85	SRB-1	Z	.008	.008	0	%100
86	SRB-2	Z	.004	.004	0	%100
87	SRB-3	Z	.004	.004	0	%100
88	SRC-1	Z	.01	.01	0	%100
89	SRC-2	Z	.005	.005	0	%100
90	SRC-3	Z	.005	.005	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	SA1	Z	.007	.007	0	%100
2	SA2	Z	.007	.007	0	%100
3	SA3	Z	.018	.018	0	%100
4	GS1	Z	.019	.019	0	%100
5	GS2	Z	.019	.019	0	%100
6	GS3	Z	0	0	0	%100
7	FF-H2-3	Z	0	0	0	%100
8	SF1-H2-3	Z	.021	.021	0	%100
9	SF2-H2-1	Z	.021	.021	0	%100
10	GS4	Z	.018	.018	0	%100
11	GS5	Z	.018	.018	0	%100
12	GS6	Z	0	0	0	%100
13	GS7	Z	.016	.016	0	%100
14	GS8	Z	.016	.016	0	%100
15	GS9	Z	0	0	0	%100
16	GSC2	Z	.014	.014	0	%100
17	GSC1	Z	.014	.014	0	%100
18	GSC3	Z	0	0	0	%100
19	SF1-H2-2	Z	.021	.021	0	%100
20	FF-H2-2	Z	0	0	0	%100
21	SF2-H2-2	Z	.021	.021	0	%100
22	SF1-H2-1	Z	.021	.021	0	%100
23	FF-H2-1	Z	0	0	0	%100
24	SF2-H2-3	Z	.021	.021	0	%100
25	MP-3	Z	.01	.01	0	%100
26	MP-1	Z	.01	.01	0	%100
27	MP-2	Z	.01	.01	0	%100
28	MP-2B	Z	.008	.008	0	%100
29	MP-9	Z	.01	.01	0	%100
30	MP-7	Z	.01	.01	0	%100
31	MP-8	Z	.01	.01	0	%100
32	MP-8B	Z	.008	.008	0	%100



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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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.%]	
33	MP-6	Z	.01	.01	0	%100
34	MP-4	Z	.01	.01	0	%100
35	MP-5	Z	.01	.01	0	%100
36	MP-5B	Z	.008	.008	0	%100
37	FF-SR	Z	0	0	0	%100
38	SF2-SR	Z	.01	.01	0	%100
39	SF1-SR	Z	.01	.01	0	%100
40	SRB-1	Z	.008	.008	0	%100
41	SRB-2	Z	.008	.008	0	%100
42	SRB-3	Z	0	0	0	%100
43	SRC-1	Z	.01	.01	0	%100
44	SRC-2	Z	.01	.01	0	%100
45	SRC-3	Z	0	0	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	SA1	X	-.007	-.007	0	%100
2	SA2	X	0	0	0	%100
3	SA3	X	-.005	-.005	0	%100
4	GS1	X	-.005	-.005	0	%100
5	GS2	X	-.01	-.01	0	%100
6	GS3	X	-.006	-.006	0	%100
7	FF-H2-3	X	-.006	-.006	0	%100
8	SF1-H2-3	X	-.005	-.005	0	%100
9	SF2-H2-1	X	-.011	-.011	0	%100
10	GS4	X	-.005	-.005	0	%100
11	GS5	X	-.009	-.009	0	%100
12	GS6	X	-.005	-.005	0	%100
13	GS7	X	-.004	-.004	0	%100
14	GS8	X	-.009	-.009	0	%100
15	GS9	X	-.005	-.005	0	%100
16	GSC2	X	-.008	-.008	0	%100
17	GSC1	X	-.004	-.004	0	%100
18	GSC3	X	-.004	-.004	0	%100
19	SF1-H2-2	X	-.005	-.005	0	%100
20	FF-H2-2	X	-.006	-.006	0	%100
21	SF2-H2-2	X	-.011	-.011	0	%100
22	SF1-H2-1	X	-.005	-.005	0	%100
23	FF-H2-1	X	-.006	-.006	0	%100
24	SF2-H2-3	X	-.011	-.011	0	%100
25	MP-3	X	-.005	-.005	0	%100
26	MP-1	X	-.005	-.005	0	%100
27	MP-2	X	-.005	-.005	0	%100
28	MP-2B	X	-.004	-.004	0	%100
29	MP-9	X	-.005	-.005	0	%100
30	MP-7	X	-.005	-.005	0	%100
31	MP-8	X	-.005	-.005	0	%100
32	MP-8B	X	-.004	-.004	0	%100
33	MP-6	X	-.005	-.005	0	%100
34	MP-4	X	-.005	-.005	0	%100
35	MP-5	X	-.005	-.005	0	%100
36	MP-5B	X	-.004	-.004	0	%100
37	FF-SR	X	-.003	-.003	0	%100
38	SF2-SR	X	-.006	-.006	0	%100
39	SF1-SR	X	-.003	-.003	0	%100
40	SRB-1	X	-.002	-.002	0	%100





Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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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.%]	
41	SRB-2	X	-0.04	-0.04	0	%100
42	SRB-3	X	-0.002	-0.002	0	%100
43	SRC-1	X	-0.003	-0.003	0	%100
44	SRC-2	X	-0.005	-0.005	0	%100
45	SRC-3	X	-0.003	-0.003	0	%100
46	SA1	Z	.011	.011	0	%100
47	SA2	Z	0	0	0	%100
48	SA3	Z	.013	.013	0	%100
49	GS11	Z	.01	.01	0	%100
50	GS12	Z	.019	.019	0	%100
51	GS13	Z	.01	.01	0	%100
52	FF-H2-3	Z	.011	.011	0	%100
53	SF1-H2-3	Z	.01	.01	0	%100
54	SF2-H2-1	Z	.021	.021	0	%100
55	GS14	Z	.009	.009	0	%100
56	GS15	Z	.018	.018	0	%100
57	GS16	Z	.009	.009	0	%100
58	GS17	Z	.008	.008	0	%100
59	GS18	Z	.016	.016	0	%100
60	GS19	Z	.008	.008	0	%100
61	GSC2	Z	.014	.014	0	%100
62	GSC1	Z	.007	.007	0	%100
63	GSC3	Z	.007	.007	0	%100
64	SF1-H2-2	Z	.01	.01	0	%100
65	FF-H2-2	Z	.011	.011	0	%100
66	SF2-H2-2	Z	.021	.021	0	%100
67	SF1-H2-1	Z	.01	.01	0	%100
68	FF-H2-1	Z	.011	.011	0	%100
69	SF2-H2-3	Z	.021	.021	0	%100
70	MP-3	Z	.008	.008	0	%100
71	MP-1	Z	.008	.008	0	%100
72	MP-2	Z	.008	.008	0	%100
73	MP-2B	Z	.007	.007	0	%100
74	MP-9	Z	.008	.008	0	%100
75	MP-7	Z	.008	.008	0	%100
76	MP-8	Z	.008	.008	0	%100
77	MP-8B	Z	.007	.007	0	%100
78	MP-6	Z	.008	.008	0	%100
79	MP-4	Z	.008	.008	0	%100
80	MP-5	Z	.008	.008	0	%100
81	MP-5B	Z	.007	.007	0	%100
82	FF-SR	Z	.005	.005	0	%100
83	SF2-SR	Z	.01	.01	0	%100
84	SF1-SR	Z	.005	.005	0	%100
85	SRB-1	Z	.004	.004	0	%100
86	SRB-2	Z	.008	.008	0	%100
87	SRB-3	Z	.004	.004	0	%100
88	SRC-1	Z	.005	.005	0	%100
89	SRC-2	Z	.01	.01	0	%100
90	SRC-3	Z	.005	.005	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	SA1	X	-.012	-.012	0	%100
2	SA2	X	-.003	-.003	0	%100
3	SA3	X	-.006	-.006	0	%100



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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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.%]	
4	GS11	X	-0.04	-0.04	0	%100
5	GS12	X	-0.013	-0.013	0	%100
6	GS13	X	-0.012	-0.012	0	%100
7	FF-H2-3	X	-0.013	-0.013	0	%100
8	SF1-H2-3	X	-0.004	-0.004	0	%100
9	SF2-H2-1	X	-0.015	-0.015	0	%100
10	GS14	X	-0.003	-0.003	0	%100
11	GS15	X	-0.013	-0.013	0	%100
12	GS16	X	-0.011	-0.011	0	%100
13	GS17	X	-0.003	-0.003	0	%100
14	GS18	X	-0.012	-0.012	0	%100
15	GS19	X	-.01	-.01	0	%100
16	GSC2	X	-0.011	-0.011	0	%100
17	GSC1	X	-0.003	-0.003	0	%100
18	GSC3	X	-0.008	-0.008	0	%100
19	SF1-H2-2	X	-0.004	-0.004	0	%100
20	FF-H2-2	X	-0.012	-0.012	0	%100
21	SF2-H2-2	X	-0.015	-0.015	0	%100
22	SF1-H2-1	X	-0.004	-0.004	0	%100
23	FF-H2-1	X	-0.013	-0.013	0	%100
24	SF2-H2-3	X	-0.015	-0.015	0	%100
25	MP-3	X	-0.007	-0.007	0	%100
26	MP-1	X	-0.007	-0.007	0	%100
27	MP-2	X	-0.007	-0.007	0	%100
28	MP-2B	X	-0.006	-0.006	0	%100
29	MP-9	X	-0.007	-0.007	0	%100
30	MP-7	X	-0.007	-0.007	0	%100
31	MP-8	X	-0.007	-0.007	0	%100
32	MP-8B	X	-0.006	-0.006	0	%100
33	MP-6	X	-0.007	-0.007	0	%100
34	MP-4	X	-0.007	-0.007	0	%100
35	MP-5	X	-0.007	-0.007	0	%100
36	MP-5B	X	-0.006	-0.006	0	%100
37	FF-SR	X	-0.006	-0.006	0	%100
38	SF2-SR	X	-0.008	-0.008	0	%100
39	SF1-SR	X	-0.002	-0.002	0	%100
40	SRB-1	X	-0.001	-0.001	0	%100
41	SRB-2	X	-0.005	-0.005	0	%100
42	SRB-3	X	-0.005	-0.005	0	%100
43	SRC-1	X	-0.002	-0.002	0	%100
44	SRC-2	X	-0.007	-0.007	0	%100
45	SRC-3	X	-0.006	-0.006	0	%100
46	SA1	Z	.01	.01	0	%100
47	SA2	Z	.003	.003	0	%100
48	SA3	Z	.009	.009	0	%100
49	GS11	Z	.004	.004	0	%100
50	GS12	Z	.015	.015	0	%100
51	GS13	Z	.012	.012	0	%100
52	FF-H2-3	Z	.013	.013	0	%100
53	SF1-H2-3	Z	.004	.004	0	%100
54	SF2-H2-1	Z	.016	.016	0	%100
55	GS14	Z	.004	.004	0	%100
56	GS15	Z	.014	.014	0	%100
57	GS16	Z	.011	.011	0	%100
58	GS17	Z	.003	.003	0	%100
59	GS18	Z	.013	.013	0	%100
60	GS19	Z	.01	.01	0	%100



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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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.%]	
61	GSC2	Z	.011	.011	0	%100
62	GSC1	Z	.003	.003	0	%100
63	GSC3	Z	.008	.008	0	%100
64	SF1-H2-2	Z	.004	.004	0	%100
65	FF-H2-2	Z	.012	.012	0	%100
66	SF2-H2-2	Z	.017	.017	0	%100
67	SF1-H2-1	Z	.004	.004	0	%100
68	FF-H2-1	Z	.013	.013	0	%100
69	SF2-H2-3	Z	.016	.016	0	%100
70	MP-3	Z	.007	.007	0	%100
71	MP-1	Z	.007	.007	0	%100
72	MP-2	Z	.007	.007	0	%100
73	MP-2B	Z	.006	.006	0	%100
74	MP-9	Z	.007	.007	0	%100
75	MP-7	Z	.007	.007	0	%100
76	MP-8	Z	.007	.007	0	%100
77	MP-8B	Z	.006	.006	0	%100
78	MP-6	Z	.007	.007	0	%100
79	MP-4	Z	.007	.007	0	%100
80	MP-5	Z	.007	.007	0	%100
81	MP-5B	Z	.006	.006	0	%100
82	FF-SR	Z	.006	.006	0	%100
83	SF2-SR	Z	.008	.008	0	%100
84	SF1-SR	Z	.002	.002	0	%100
85	SRB-1	Z	.002	.002	0	%100
86	SRB-2	Z	.006	.006	0	%100
87	SRB-3	Z	.005	.005	0	%100
88	SRC-1	Z	.002	.002	0	%100
89	SRC-2	Z	.008	.008	0	%100
90	SRC-3	Z	.006	.006	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	SA1	X	-.015	-.015	0	%100
2	SA2	X	-.007	-.007	0	%100
3	SA3	X	-.005	-.005	0	%100
4	GS11	X	0	0	0	%100
5	GS12	X	-.015	-.015	0	%100
6	GS13	X	-.017	-.017	0	%100
7	FF-H2-3	X	-.019	-.019	0	%100
8	SF1-H2-3	X	0	0	0	%100
9	SF2-H2-1	X	-.016	-.016	0	%100
10	GS14	X	0	0	0	%100
11	GS15	X	-.014	-.014	0	%100
12	GS16	X	-.016	-.016	0	%100
13	GS17	X	0	0	0	%100
14	GS18	X	-.013	-.013	0	%100
15	GS19	X	-.015	-.015	0	%100
16	GSC2	X	-.012	-.012	0	%100
17	GSC1	X	0	0	0	%100
18	GSC3	X	-.012	-.012	0	%100
19	SF1-H2-2	X	0	0	0	%100
20	FF-H2-2	X	-.019	-.019	0	%100
21	SF2-H2-2	X	-.016	-.016	0	%100
22	SF1-H2-1	X	0	0	0	%100
23	FF-H2-1	X	-.019	-.019	0	%100



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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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.%]	
24	SF2-H2-3	X	-.016	-.016	0	%100
25	MP-3	X	-.008	-.008	0	%100
26	MP-1	X	-.008	-.008	0	%100
27	MP-2	X	-.008	-.008	0	%100
28	MP-2B	X	-.007	-.007	0	%100
29	MP-9	X	-.008	-.008	0	%100
30	MP-7	X	-.008	-.008	0	%100
31	MP-8	X	-.008	-.008	0	%100
32	MP-8B	X	-.007	-.007	0	%100
33	MP-6	X	-.008	-.008	0	%100
34	MP-4	X	-.008	-.008	0	%100
35	MP-5	X	-.008	-.008	0	%100
36	MP-5B	X	-.007	-.007	0	%100
37	FF-SR	X	-.009	-.009	0	%100
38	SF2-SR	X	-.009	-.009	0	%100
39	SF1-SR	X	0	0	0	%100
40	SRB-1	X	0	0	0	%100
41	SRB-2	X	-.006	-.006	0	%100
42	SRB-3	X	-.007	-.007	0	%100
43	SRC-1	X	0	0	0	%100
44	SRC-2	X	-.008	-.008	0	%100
45	SRC-3	X	-.009	-.009	0	%100
46	SA1	Z	.007	.007	0	%100
47	SA2	Z	.004	.004	0	%100
48	SA3	Z	.004	.004	0	%100
49	GS11	Z	0	0	0	%100
50	GS12	Z	.01	.01	0	%100
51	GS13	Z	.01	.01	0	%100
52	FF-H2-3	Z	.011	.011	0	%100
53	SF1-H2-3	Z	0	0	0	%100
54	SF2-H2-1	Z	.01	.01	0	%100
55	GS14	Z	0	0	0	%100
56	GS15	Z	.009	.009	0	%100
57	GS16	Z	.009	.009	0	%100
58	GS17	Z	0	0	0	%100
59	GS18	Z	.008	.008	0	%100
60	GS19	Z	.008	.008	0	%100
61	GSC2	Z	.007	.007	0	%100
62	GSC1	Z	0	0	0	%100
63	GSC3	Z	.007	.007	0	%100
64	SF1-H2-2	Z	0	0	0	%100
65	FF-H2-2	Z	.011	.011	0	%100
66	SF2-H2-2	Z	.01	.01	0	%100
67	SF1-H2-1	Z	0	0	0	%100
68	FF-H2-1	Z	.011	.011	0	%100
69	SF2-H2-3	Z	.01	.01	0	%100
70	MP-3	Z	.005	.005	0	%100
71	MP-1	Z	.005	.005	0	%100
72	MP-2	Z	.005	.005	0	%100
73	MP-2B	Z	.004	.004	0	%100
74	MP-9	Z	.005	.005	0	%100
75	MP-7	Z	.005	.005	0	%100
76	MP-8	Z	.005	.005	0	%100
77	MP-8B	Z	.004	.004	0	%100
78	MP-6	Z	.005	.005	0	%100
79	MP-4	Z	.005	.005	0	%100
80	MP-5	Z	.005	.005	0	%100



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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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.%]	
81	MP-5B	Z	.004	.004	0	%100
82	FF-SR	Z	.005	.005	0	%100
83	SF2-SR	Z	.005	.005	0	%100
84	SF1-SR	Z	0	0	0	%100
85	SRB-1	Z	0	0	0	%100
86	SRB-2	Z	.004	.004	0	%100
87	SRB-3	Z	.004	.004	0	%100
88	SRC-1	Z	0	0	0	%100
89	SRC-2	Z	.005	.005	0	%100
90	SRC-3	Z	.005	.005	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	SA1	Y	-.008	-.008	0	%100
2	SA2	Y	-.008	-.008	0	%100
3	SA3	Y	-.008	-.008	0	%100
4	GS11	Y	-.009	-.009	0	%100
5	GS12	Y	-.009	-.009	0	%100
6	GS13	Y	-.009	-.009	0	%100
7	FF-H2-3	Y	-.01	-.01	0	%100
8	SF1-H2-3	Y	-.01	-.01	0	%100
9	SF2-H2-1	Y	-.01	-.01	0	%100
10	GS14	Y	-.009	-.009	0	%100
11	GS15	Y	-.009	-.009	0	%100
12	GS16	Y	-.009	-.009	0	%100
13	GS17	Y	-.01	-.01	0	%100
14	GS18	Y	-.01	-.01	0	%100
15	GS19	Y	-.01	-.01	0	%100
16	GSC2	Y	-.013	-.013	0	%100
17	GSC1	Y	-.013	-.013	0	%100
18	GSC3	Y	-.013	-.013	0	%100
19	SF1-H2-2	Y	-.01	-.01	0	%100
20	FF-H2-2	Y	-.01	-.01	0	%100
21	SF2-H2-2	Y	-.01	-.01	0	%100
22	SF1-H2-1	Y	-.01	-.01	0	%100
23	FF-H2-1	Y	-.01	-.01	0	%100
24	SF2-H2-3	Y	-.01	-.01	0	%100
25	MP-3	Y	-.005	-.005	0	%100
26	MP-1	Y	-.005	-.005	0	%100
27	MP-2	Y	-.005	-.005	0	%100
28	MP-2B	Y	-.005	-.005	0	%100
29	MP-9	Y	-.005	-.005	0	%100
30	MP-7	Y	-.005	-.005	0	%100
31	MP-8	Y	-.005	-.005	0	%100
32	MP-8B	Y	-.005	-.005	0	%100
33	MP-6	Y	-.005	-.005	0	%100
34	MP-4	Y	-.005	-.005	0	%100
35	MP-5	Y	-.005	-.005	0	%100
36	MP-5B	Y	-.005	-.005	0	%100
37	FF-SR	Y	-.006	-.006	0	%100
38	SF2-SR	Y	-.006	-.006	0	%100
39	SF1-SR	Y	-.006	-.006	0	%100
40	SRB-1	Y	-.005	-.005	0	%100
41	SRB-2	Y	-.005	-.005	0	%100
42	SRB-3	Y	-.005	-.005	0	%100
43	SRC-1	Y	-.005	-.005	0	%100



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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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.%]	
44	SRC-2	Y	-.005	-.005	0	%100
45	SRC-3	Y	-.005	-.005	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	SA1	X	-.005	-.005	0	%100
2	SA2	X	-.005	-.005	0	%100
3	SA3	X	-.004	-.004	0	%100
4	GS11	X	-.005	-.005	0	%100
5	GS12	X	-.005	-.005	0	%100
6	GS13	X	-.006	-.006	0	%100
7	FF-H2-3	X	-.006	-.006	0	%100
8	SF1-H2-3	X	-.006	-.006	0	%100
9	SF2-H2-1	X	-.006	-.006	0	%100
10	GS14	X	-.005	-.005	0	%100
11	GS15	X	-.005	-.005	0	%100
12	GS16	X	-.006	-.006	0	%100
13	GS17	X	-.005	-.005	0	%100
14	GS18	X	-.005	-.005	0	%100
15	GS19	X	-.005	-.005	0	%100
16	GSC2	X	-.007	-.007	0	%100
17	GSC1	X	-.007	-.007	0	%100
18	GSC3	X	-.007	-.007	0	%100
19	SF1-H2-2	X	-.006	-.006	0	%100
20	FF-H2-2	X	-.006	-.006	0	%100
21	SF2-H2-2	X	-.006	-.006	0	%100
22	SF1-H2-1	X	-.006	-.006	0	%100
23	FF-H2-1	X	-.006	-.006	0	%100
24	SF2-H2-3	X	-.006	-.006	0	%100
25	MP-3	X	-.003	-.003	0	%100
26	MP-1	X	-.003	-.003	0	%100
27	MP-2	X	-.003	-.003	0	%100
28	MP-2B	X	-.002	-.002	0	%100
29	MP-9	X	-.003	-.003	0	%100
30	MP-7	X	-.003	-.003	0	%100
31	MP-8	X	-.003	-.003	0	%100
32	MP-8B	X	-.002	-.002	0	%100
33	MP-6	X	-.003	-.003	0	%100
34	MP-4	X	-.003	-.003	0	%100
35	MP-5	X	-.003	-.003	0	%100
36	MP-5B	X	-.002	-.002	0	%100
37	FF-SR	X	-.004	-.004	0	%100
38	SF2-SR	X	-.003	-.003	0	%100
39	SF1-SR	X	-.003	-.003	0	%100
40	SRB-1	X	-.002	-.002	0	%100
41	SRB-2	X	-.002	-.002	0	%100
42	SRB-3	X	-.003	-.003	0	%100
43	SRC-1	X	-.004	-.004	0	%100
44	SRC-2	X	-.004	-.004	0	%100
45	SRC-3	X	-.004	-.004	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	SA1	X	-.002	-.002	0	%100
2	SA2	X	-.004	-.004	0	%100
3	SA3	X	-.002	-.002	0	%100



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft....]	Start Location[ft.%]	End Location[ft.%]	
4	GS1	X	-0.04	-0.04	0	%100
5	GS2	X	0	0	0	%100
6	GS3	X	-0.04	-0.04	0	%100
7	FF-H2-3	X	-0.05	-0.05	0	%100
8	SF1-H2-3	X	-0.04	-0.04	0	%100
9	SF2-H2-1	X	0	0	0	%100
10	GS4	X	-0.04	-0.04	0	%100
11	GS5	X	0	0	0	%100
12	GS6	X	-0.04	-0.04	0	%100
13	GS7	X	-0.04	-0.04	0	%100
14	GS8	X	0	0	0	%100
15	GS9	X	-0.04	-0.04	0	%100
16	GSC2	X	0	0	0	%100
17	GSC1	X	-0.05	-0.05	0	%100
18	GSC3	X	-0.05	-0.05	0	%100
19	SF1-H2-2	X	-0.04	-0.04	0	%100
20	FF-H2-2	X	-0.05	-0.05	0	%100
21	SF2-H2-2	X	0	0	0	%100
22	SF1-H2-1	X	-0.04	-0.04	0	%100
23	FF-H2-1	X	-0.05	-0.05	0	%100
24	SF2-H2-3	X	0	0	0	%100
25	MP-3	X	-0.02	-0.02	0	%100
26	MP-1	X	-0.02	-0.02	0	%100
27	MP-2	X	-0.02	-0.02	0	%100
28	MP-2B	X	-0.02	-0.02	0	%100
29	MP-9	X	-0.02	-0.02	0	%100
30	MP-7	X	-0.02	-0.02	0	%100
31	MP-8	X	-0.02	-0.02	0	%100
32	MP-8B	X	-0.02	-0.02	0	%100
33	MP-6	X	-0.02	-0.02	0	%100
34	MP-4	X	-0.02	-0.02	0	%100
35	MP-5	X	-0.02	-0.02	0	%100
36	MP-5B	X	-0.02	-0.02	0	%100
37	FF-SR	X	-0.03	-0.03	0	%100
38	SF2-SR	X	0	0	0	%100
39	SF1-SR	X	-0.02	-0.02	0	%100
40	SRB-1	X	-0.02	-0.02	0	%100
41	SRB-2	X	0	0	0	%100
42	SRB-3	X	-0.02	-0.02	0	%100
43	SRC-1	X	-0.03	-0.03	0	%100
44	SRC-2	X	0	0	0	%100
45	SRC-3	X	-0.03	-0.03	0	%100
46	SA1	Z	-0.01	-0.01	0	%100
47	SA2	Z	-0.02	-0.02	0	%100
48	SA3	Z	-0.01	-0.01	0	%100
49	GS1	Z	-0.02	-0.02	0	%100
50	GS2	Z	0	0	0	%100
51	GS3	Z	-0.02	-0.02	0	%100
52	FF-H2-3	Z	-0.02	-0.02	0	%100
53	SF1-H2-3	Z	-0.03	-0.03	0	%100
54	SF2-H2-1	Z	0	0	0	%100
55	GS4	Z	-0.02	-0.02	0	%100
56	GS5	Z	0	0	0	%100
57	GS6	Z	-0.02	-0.02	0	%100
58	GS7	Z	-0.02	-0.02	0	%100
59	GS8	Z	0	0	0	%100
60	GS9	Z	-0.02	-0.02	0	%100



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft....]	Start Location[ft.%]	End Location[ft.%]	
61	GSC2	Z	0	0	0	%100
62	GSC1	Z	-0.03	-0.03	0	%100
63	GSC3	Z	-0.03	-0.03	0	%100
64	SF1-H2-2	Z	-0.03	-0.03	0	%100
65	FF-H2-2	Z	-0.02	-0.02	0	%100
66	SF2-H2-2	Z	0	0	0	%100
67	SF1-H2-1	Z	-0.03	-0.03	0	%100
68	FF-H2-1	Z	-0.02	-0.02	0	%100
69	SF2-H2-3	Z	0	0	0	%100
70	MP-3	Z	-0.01	-0.01	0	%100
71	MP-1	Z	-0.01	-0.01	0	%100
72	MP-2	Z	-0.02	-0.02	0	%100
73	MP-2B	Z	-0.01	-0.01	0	%100
74	MP-9	Z	-0.01	-0.01	0	%100
75	MP-7	Z	-0.01	-0.01	0	%100
76	MP-8	Z	-0.02	-0.02	0	%100
77	MP-8B	Z	-0.01	-0.01	0	%100
78	MP-6	Z	-0.01	-0.01	0	%100
79	MP-4	Z	-0.01	-0.01	0	%100
80	MP-5	Z	-0.02	-0.02	0	%100
81	MP-5B	Z	-0.01	-0.01	0	%100
82	FF-SR	Z	-0.01	-0.01	0	%100
83	SF2-SR	Z	0	0	0	%100
84	SF1-SR	Z	-0.02	-0.02	0	%100
85	SRB-1	Z	-0.01	-0.01	0	%100
86	SRB-2	Z	0	0	0	%100
87	SRB-3	Z	-0.01	-0.01	0	%100
88	SRC-1	Z	-0.02	-0.02	0	%100
89	SRC-2	Z	0	0	0	%100
90	SRC-3	Z	-0.02	-0.02	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft....]	Start Location[ft.%]	End Location[ft.%]	
1	SA1	X	-0.00888	-0.00888	0	%100
2	SA2	X	-0.03	-0.03	0	%100
3	SA3	X	-0.02	-0.02	0	%100
4	GS1	X	-0.04	-0.04	0	%100
5	GS2	X	-0.00956	-0.00956	0	%100
6	GS3	X	-0.03	-0.03	0	%100
7	FF-H2-3	X	-0.03	-0.03	0	%100
8	SF1-H2-3	X	-0.04	-0.04	0	%100
9	SF2-H2-1	X	-0.01	-0.01	0	%100
10	GS4	X	-0.03	-0.03	0	%100
11	GS5	X	-0.00931	-0.00931	0	%100
12	GS6	X	-0.03	-0.03	0	%100
13	GS7	X	-0.03	-0.03	0	%100
14	GS8	X	-0.00911	-0.00911	0	%100
15	GS9	X	-0.03	-0.03	0	%100
16	GSC2	X	-0.01	-0.01	0	%100
17	GSC1	X	-0.05	-0.05	0	%100
18	GSC3	X	-0.03	-0.03	0	%100
19	SF1-H2-2	X	-0.04	-0.04	0	%100
20	FF-H2-2	X	-0.03	-0.03	0	%100
21	SF2-H2-2	X	-0.01	-0.01	0	%100
22	SF1-H2-1	X	-0.04	-0.04	0	%100
23	FF-H2-1	X	-0.03	-0.03	0	%100



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft....]	Start Location[ft.%]	End Location[ft.%]	
24	SF2-H2-3	X	-0.001	-0.001	0	%100
25	MP-3	X	-0.002	-0.002	0	%100
26	MP-1	X	-0.002	-0.002	0	%100
27	MP-2	X	-0.002	-0.002	0	%100
28	MP-2B	X	-0.002	-0.002	0	%100
29	MP-9	X	-0.002	-0.002	0	%100
30	MP-7	X	-0.002	-0.002	0	%100
31	MP-8	X	-0.002	-0.002	0	%100
32	MP-8B	X	-0.002	-0.002	0	%100
33	MP-6	X	-0.002	-0.002	0	%100
34	MP-4	X	-0.002	-0.002	0	%100
35	MP-5	X	-0.002	-0.002	0	%100
36	MP-5B	X	-0.002	-0.002	0	%100
37	FF-SR	X	-0.002	-0.002	0	%100
38	SF2-SR	X	-0.000564	-0.000564	0	%100
39	SF1-SR	X	-0.002	-0.002	0	%100
40	SRB-1	X	-0.002	-0.002	0	%100
41	SRB-2	X	-0.000425	-0.000425	0	%100
42	SRB-3	X	-0.001	-0.001	0	%100
43	SRC-1	X	-0.003	-0.003	0	%100
44	SRC-2	X	-0.000714	-0.000714	0	%100
45	SRC-3	X	-0.002	-0.002	0	%100
46	SA1	Z	-0.000805	-0.000805	0	%100
47	SA2	Z	-0.003	-0.003	0	%100
48	SA3	Z	-0.002	-0.002	0	%100
49	GS1	Z	-0.004	-0.004	0	%100
50	GS2	Z	-0.001	-0.001	0	%100
51	GS3	Z	-0.003	-0.003	0	%100
52	FF-H2-3	Z	-0.003	-0.003	0	%100
53	SF1-H2-3	Z	-0.004	-0.004	0	%100
54	SF2-H2-1	Z	-0.001	-0.001	0	%100
55	GS4	Z	-0.004	-0.004	0	%100
56	GS5	Z	-0.001	-0.001	0	%100
57	GS6	Z	-0.003	-0.003	0	%100
58	GS7	Z	-0.004	-0.004	0	%100
59	GS8	Z	-0.000965	-0.000965	0	%100
60	GS9	Z	-0.002	-0.002	0	%100
61	GSC2	Z	-0.001	-0.001	0	%100
62	GSC1	Z	-0.005	-0.005	0	%100
63	GSC3	Z	-0.003	-0.003	0	%100
64	SF1-H2-2	Z	-0.004	-0.004	0	%100
65	FF-H2-2	Z	-0.003	-0.003	0	%100
66	SF2-H2-2	Z	-0.001	-0.001	0	%100
67	SF1-H2-1	Z	-0.004	-0.004	0	%100
68	FF-H2-1	Z	-0.003	-0.003	0	%100
69	SF2-H2-3	Z	-0.001	-0.001	0	%100
70	MP-3	Z	-0.002	-0.002	0	%100
71	MP-1	Z	-0.002	-0.002	0	%100
72	MP-2	Z	-0.002	-0.002	0	%100
73	MP-2B	Z	-0.002	-0.002	0	%100
74	MP-9	Z	-0.002	-0.002	0	%100
75	MP-7	Z	-0.002	-0.002	0	%100
76	MP-8	Z	-0.002	-0.002	0	%100
77	MP-8B	Z	-0.002	-0.002	0	%100
78	MP-6	Z	-0.002	-0.002	0	%100
79	MP-4	Z	-0.002	-0.002	0	%100
80	MP-5	Z	-0.002	-0.002	0	%100



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

May 21, 2020  
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**Member Distributed Loads (BLC 21 : 45 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft....]	Start Location[ft.%]	End Location[ft.%]	
81	MP-5B	Z	-0.002	-0.002	0	%100
82	FF-SR	Z	-0.002	-0.002	0	%100
83	SF2-SR	Z	-0.000693	-0.000693	0	%100
84	SF1-SR	Z	-0.003	-0.003	0	%100
85	SRB-1	Z	-0.002	-0.002	0	%100
86	SRB-2	Z	-0.00048	-0.00048	0	%100
87	SRB-3	Z	-0.001	-0.001	0	%100
88	SRC-1	Z	-0.003	-0.003	0	%100
89	SRC-2	Z	-0.000747	-0.000747	0	%100
90	SRC-3	Z	-0.002	-0.002	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft....]	Start Location[ft.%]	End Location[ft.%]	
1	SA1	X	0	0	0	%100
2	SA2	X	-0.002	-0.002	0	%100
3	SA3	X	-0.002	-0.002	0	%100
4	GS1	X	-0.003	-0.003	0	%100
5	GS2	X	-0.001	-0.001	0	%100
6	GS3	X	-0.001	-0.001	0	%100
7	FF-H2-3	X	-0.002	-0.002	0	%100
8	SF1-H2-3	X	-0.003	-0.003	0	%100
9	SF2-H2-1	X	-0.001	-0.001	0	%100
10	GS4	X	-0.003	-0.003	0	%100
11	GS5	X	-0.001	-0.001	0	%100
12	GS6	X	-0.001	-0.001	0	%100
13	GS7	X	-0.002	-0.002	0	%100
14	GS8	X	-0.001	-0.001	0	%100
15	GS9	X	-0.001	-0.001	0	%100
16	GSC2	X	-0.002	-0.002	0	%100
17	GSC1	X	-0.003	-0.003	0	%100
18	GSC3	X	-0.002	-0.002	0	%100
19	SF1-H2-2	X	-0.003	-0.003	0	%100
20	FF-H2-2	X	-0.002	-0.002	0	%100
21	SF2-H2-2	X	-0.001	-0.001	0	%100
22	SF1-H2-1	X	-0.003	-0.003	0	%100
23	FF-H2-1	X	-0.002	-0.002	0	%100
24	SF2-H2-3	X	-0.001	-0.001	0	%100
25	MP-3	X	-0.001	-0.001	0	%100
26	MP-1	X	-0.001	-0.001	0	%100
27	MP-2	X	-0.001	-0.001	0	%100
28	MP-2B	X	-0.001	-0.001	0	%100
29	MP-9	X	-0.001	-0.001	0	%100
30	MP-7	X	-0.001	-0.001	0	%100
31	MP-8	X	-0.001	-0.001	0	%100
32	MP-8B	X	-0.001	-0.001	0	%100
33	MP-6	X	-0.001	-0.001	0	%100
34	MP-4	X	-0.001	-0.001	0	%100
35	MP-5	X	-0.001	-0.001	0	%100
36	MP-5B	X	-0.001	-0.001	0	%100
37	FF-SR	X	-0.000947	-0.000947	0	%100
38	SF2-SR	X	-0.000771	-0.000771	0	%100
39	SF1-SR	X	-0.002	-0.002	0	%100
40	SRB-1	X	-0.001	-0.001	0	%100
41	SRB-2	X	-0.000581	-0.000581	0	%100
42	SRB-3	X	-0.000683	-0.000683	0	%100
43	SRC-1	X	-0.002	-0.002	0	%100



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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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.%]	
44	SRC-2	X	-0.00975	-0.00975	0	%100
45	SRC-3	X	-0.001	-0.001	0	%100
46	SA1	Z	0	0	0	%100
47	SA2	Z	-0.003	-0.003	0	%100
48	SA3	Z	-0.004	-0.004	0	%100
49	GS11	Z	-0.005	-0.005	0	%100
50	GS12	Z	-0.002	-0.002	0	%100
51	GS13	Z	-0.002	-0.002	0	%100
52	FF-H2-3	Z	-0.002	-0.002	0	%100
53	SF1-H2-3	Z	-0.005	-0.005	0	%100
54	SF2-H2-1	Z	-0.003	-0.003	0	%100
55	GS14	Z	-0.005	-0.005	0	%100
56	GS15	Z	-0.002	-0.002	0	%100
57	GS16	Z	-0.002	-0.002	0	%100
58	GS17	Z	-0.005	-0.005	0	%100
59	GS18	Z	-0.002	-0.002	0	%100
60	GS19	Z	-0.002	-0.002	0	%100
61	GSC2	Z	-0.003	-0.003	0	%100
62	GSC1	Z	-0.006	-0.006	0	%100
63	GSC3	Z	-0.003	-0.003	0	%100
64	SF1-H2-2	Z	-0.005	-0.005	0	%100
65	FF-H2-2	Z	-0.002	-0.002	0	%100
66	SF2-H2-2	Z	-0.003	-0.003	0	%100
67	SF1-H2-1	Z	-0.005	-0.005	0	%100
68	FF-H2-1	Z	-0.002	-0.002	0	%100
69	SF2-H2-3	Z	-0.003	-0.003	0	%100
70	MP-3	Z	-0.003	-0.003	0	%100
71	MP-1	Z	-0.003	-0.003	0	%100
72	MP-2	Z	-0.003	-0.003	0	%100
73	MP-2B	Z	-0.002	-0.002	0	%100
74	MP-9	Z	-0.003	-0.003	0	%100
75	MP-7	Z	-0.003	-0.003	0	%100
76	MP-8	Z	-0.003	-0.003	0	%100
77	MP-8B	Z	-0.002	-0.002	0	%100
78	MP-6	Z	-0.003	-0.003	0	%100
79	MP-4	Z	-0.003	-0.003	0	%100
80	MP-5	Z	-0.003	-0.003	0	%100
81	MP-5B	Z	-0.002	-0.002	0	%100
82	FF-SR	Z	-0.001	-0.001	0	%100
83	SF2-SR	Z	-0.002	-0.002	0	%100
84	SF1-SR	Z	-0.003	-0.003	0	%100
85	SRB-1	Z	-0.002	-0.002	0	%100
86	SRB-2	Z	-0.001	-0.001	0	%100
87	SRB-3	Z	-0.001	-0.001	0	%100
88	SRC-1	Z	-0.004	-0.004	0	%100
89	SRC-2	Z	-0.002	-0.002	0	%100
90	SRC-3	Z	-0.002	-0.002	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	SA1	Z	-0.002	-0.002	0	%100
2	SA2	Z	-0.002	-0.002	0	%100
3	SA3	Z	-0.005	-0.005	0	%100
4	GS11	Z	-0.005	-0.005	0	%100
5	GS12	Z	-0.005	-0.005	0	%100
6	GS13	Z	0	0	0	%100



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
7	FF-H2-3	Z	0	0	0	%100
8	SF1-H2-3	Z	-0.005	-0.005	0	%100
9	SF2-H2-1	Z	-0.005	-0.005	0	%100
10	GS14	Z	-0.005	-0.005	0	%100
11	GS15	Z	-0.005	-0.005	0	%100
12	GS16	Z	0	0	0	%100
13	GS17	Z	-0.005	-0.005	0	%100
14	GS18	Z	-0.005	-0.005	0	%100
15	GS19	Z	0	0	0	%100
16	GSC2	Z	-0.006	-0.006	0	%100
17	GSC1	Z	-0.006	-0.006	0	%100
18	GSC3	Z	0	0	0	%100
19	SF1-H2-2	Z	-0.005	-0.005	0	%100
20	FF-H2-2	Z	0	0	0	%100
21	SF2-H2-2	Z	-0.005	-0.005	0	%100
22	SF1-H2-1	Z	-0.005	-0.005	0	%100
23	FF-H2-1	Z	0	0	0	%100
24	SF2-H2-3	Z	-0.005	-0.005	0	%100
25	MP-3	Z	-0.003	-0.003	0	%100
26	MP-1	Z	-0.003	-0.003	0	%100
27	MP-2	Z	-0.003	-0.003	0	%100
28	MP-2B	Z	-0.002	-0.002	0	%100
29	MP-9	Z	-0.003	-0.003	0	%100
30	MP-7	Z	-0.003	-0.003	0	%100
31	MP-8	Z	-0.003	-0.003	0	%100
32	MP-8B	Z	-0.002	-0.002	0	%100
33	MP-6	Z	-0.003	-0.003	0	%100
34	MP-4	Z	-0.003	-0.003	0	%100
35	MP-5	Z	-0.003	-0.003	0	%100
36	MP-5B	Z	-0.002	-0.002	0	%100
37	FF-SR	Z	0	0	0	%100
38	SF2-SR	Z	-0.003	-0.003	0	%100
39	SF1-SR	Z	-0.003	-0.003	0	%100
40	SRB-1	Z	-0.002	-0.002	0	%100
41	SRB-2	Z	-0.002	-0.002	0	%100
42	SRB-3	Z	0	0	0	%100
43	SRC-1	Z	-0.004	-0.004	0	%100
44	SRC-2	Z	-0.004	-0.004	0	%100
45	SRC-3	Z	0	0	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	SA1	X	.002	.002	0	%100
2	SA2	X	0	0	0	%100
3	SA3	X	.002	.002	0	%100
4	GS11	X	.001	.001	0	%100
5	GS12	X	.003	.003	0	%100
6	GS13	X	.001	.001	0	%100
7	FF-H2-3	X	.002	.002	0	%100
8	SF1-H2-3	X	.001	.001	0	%100
9	SF2-H2-1	X	.003	.003	0	%100
10	GS14	X	.001	.001	0	%100
11	GS15	X	.003	.003	0	%100
12	GS16	X	.001	.001	0	%100
13	GS17	X	.001	.001	0	%100
14	GS18	X	.002	.002	0	%100





Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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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.%]	
15	GS19	X	.001	.001	0	%100
16	GSC2	X	.003	.003	0	%100
17	GSC1	X	.002	.002	0	%100
18	GSC3	X	.002	.002	0	%100
19	SF1-H2-2	X	.001	.001	0	%100
20	FF-H2-2	X	.002	.002	0	%100
21	SF2-H2-2	X	.003	.003	0	%100
22	SF1-H2-1	X	.001	.001	0	%100
23	FF-H2-1	X	.002	.002	0	%100
24	SF2-H2-3	X	.003	.003	0	%100
25	MP-3	X	.001	.001	0	%100
26	MP-1	X	.001	.001	0	%100
27	MP-2	X	.001	.001	0	%100
28	MP-2B	X	.001	.001	0	%100
29	MP-9	X	.001	.001	0	%100
30	MP-7	X	.001	.001	0	%100
31	MP-8	X	.001	.001	0	%100
32	MP-8B	X	.001	.001	0	%100
33	MP-6	X	.001	.001	0	%100
34	MP-4	X	.001	.001	0	%100
35	MP-5	X	.001	.001	0	%100
36	MP-5B	X	.001	.001	0	%100
37	FF-SR	X	.000947	.000947	0	%100
38	SF2-SR	X	.002	.002	0	%100
39	SF1-SR	X	.000771	.000771	0	%100
40	SRB-1	X	.000581	.000581	0	%100
41	SRB-2	X	.001	.001	0	%100
42	SRB-3	X	.000683	.000683	0	%100
43	SRC-1	X	.000975	.000975	0	%100
44	SRC-2	X	.002	.002	0	%100
45	SRC-3	X	.001	.001	0	%100
46	SA1	Z	-.003	-.003	0	%100
47	SA2	Z	0	0	0	%100
48	SA3	Z	-.004	-.004	0	%100
49	GS11	Z	-.002	-.002	0	%100
50	GS12	Z	-.005	-.005	0	%100
51	GS13	Z	-.002	-.002	0	%100
52	FF-H2-3	Z	-.002	-.002	0	%100
53	SF1-H2-3	Z	-.003	-.003	0	%100
54	SF2-H2-1	Z	-.005	-.005	0	%100
55	GS14	Z	-.002	-.002	0	%100
56	GS15	Z	-.005	-.005	0	%100
57	GS16	Z	-.002	-.002	0	%100
58	GS17	Z	-.002	-.002	0	%100
59	GS18	Z	-.005	-.005	0	%100
60	GS19	Z	-.002	-.002	0	%100
61	GSC2	Z	-.006	-.006	0	%100
62	GSC1	Z	-.003	-.003	0	%100
63	GSC3	Z	-.003	-.003	0	%100
64	SF1-H2-2	Z	-.003	-.003	0	%100
65	FF-H2-2	Z	-.002	-.002	0	%100
66	SF2-H2-2	Z	-.005	-.005	0	%100
67	SF1-H2-1	Z	-.003	-.003	0	%100
68	FF-H2-1	Z	-.002	-.002	0	%100
69	SF2-H2-3	Z	-.005	-.005	0	%100
70	MP-3	Z	-.003	-.003	0	%100
71	MP-1	Z	-.003	-.003	0	%100



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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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.%]	
72	MP-2	Z	-.003	-.003	0	%100
73	MP-2B	Z	-.002	-.002	0	%100
74	MP-9	Z	-.003	-.003	0	%100
75	MP-7	Z	-.003	-.003	0	%100
76	MP-8	Z	-.003	-.003	0	%100
77	MP-8B	Z	-.002	-.002	0	%100
78	MP-6	Z	-.003	-.003	0	%100
79	MP-4	Z	-.003	-.003	0	%100
80	MP-5	Z	-.003	-.003	0	%100
81	MP-5B	Z	-.002	-.002	0	%100
82	FF-SR	Z	-.001	-.001	0	%100
83	SF2-SR	Z	-.003	-.003	0	%100
84	SF1-SR	Z	-.002	-.002	0	%100
85	SRB-1	Z	-.001	-.001	0	%100
86	SRB-2	Z	-.002	-.002	0	%100
87	SRB-3	Z	-.001	-.001	0	%100
88	SRC-1	Z	-.002	-.002	0	%100
89	SRC-2	Z	-.004	-.004	0	%100
90	SRC-3	Z	-.002	-.002	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	SA1	X	.003	.003	0	%100
2	SA2	X	.000888	.000888	0	%100
3	SA3	X	.002	.002	0	%100
4	GS11	X	.000956	.000956	0	%100
5	GS12	X	.004	.004	0	%100
6	GS13	X	.003	.003	0	%100
7	FF-H2-3	X	.003	.003	0	%100
8	SF1-H2-3	X	.001	.001	0	%100
9	SF2-H2-1	X	.004	.004	0	%100
10	GS14	X	.000931	.000931	0	%100
11	GS15	X	.003	.003	0	%100
12	GS16	X	.003	.003	0	%100
13	GS17	X	.000911	.000911	0	%100
14	GS18	X	.003	.003	0	%100
15	GS19	X	.003	.003	0	%100
16	GSC2	X	.005	.005	0	%100
17	GSC1	X	.001	.001	0	%100
18	GSC3	X	.003	.003	0	%100
19	SF1-H2-2	X	.001	.001	0	%100
20	FF-H2-2	X	.003	.003	0	%100
21	SF2-H2-2	X	.004	.004	0	%100
22	SF1-H2-1	X	.001	.001	0	%100
23	FF-H2-1	X	.003	.003	0	%100
24	SF2-H2-3	X	.004	.004	0	%100
25	MP-3	X	.002	.002	0	%100
26	MP-1	X	.002	.002	0	%100
27	MP-2	X	.002	.002	0	%100
28	MP-2B	X	.002	.002	0	%100
29	MP-9	X	.002	.002	0	%100
30	MP-7	X	.002	.002	0	%100
31	MP-8	X	.002	.002	0	%100
32	MP-8B	X	.002	.002	0	%100
33	MP-6	X	.002	.002	0	%100
34	MP-4	X	.002	.002	0	%100



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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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.%]	
35	MP-5	X	.002	.002	0	%100
36	MP-5B	X	.002	.002	0	%100
37	FF-SR	X	.002	.002	0	%100
38	SF2-SR	X	.002	.002	0	%100
39	SF1-SR	X	.000564	.000564	0	%100
40	SRB-1	X	.000425	.000425	0	%100
41	SRB-2	X	.002	.002	0	%100
42	SRB-3	X	.001	.001	0	%100
43	SRC-1	X	.000714	.000714	0	%100
44	SRC-2	X	.003	.003	0	%100
45	SRC-3	X	.002	.002	0	%100
46	SA1	Z	-.003	-.003	0	%100
47	SA2	Z	-.000805	-.000805	0	%100
48	SA3	Z	-.002	-.002	0	%100
49	GS11	Z	-.001	-.001	0	%100
50	GS12	Z	-.004	-.004	0	%100
51	GS13	Z	-.003	-.003	0	%100
52	FF-H2-3	Z	-.003	-.003	0	%100
53	SF1-H2-3	Z	-.001	-.001	0	%100
54	SF2-H2-1	Z	-.004	-.004	0	%100
55	GS14	Z	-.001	-.001	0	%100
56	GS15	Z	-.004	-.004	0	%100
57	GS16	Z	-.003	-.003	0	%100
58	GS17	Z	-.000965	-.000965	0	%100
59	GS18	Z	-.004	-.004	0	%100
60	GS19	Z	-.002	-.002	0	%100
61	GSC2	Z	-.005	-.005	0	%100
62	GSC1	Z	-.001	-.001	0	%100
63	GSC3	Z	-.003	-.003	0	%100
64	SF1-H2-2	Z	-.001	-.001	0	%100
65	FF-H2-2	Z	-.003	-.003	0	%100
66	SF2-H2-2	Z	-.004	-.004	0	%100
67	SF1-H2-1	Z	-.001	-.001	0	%100
68	FF-H2-1	Z	-.003	-.003	0	%100
69	SF2-H2-3	Z	-.004	-.004	0	%100
70	MP-3	Z	-.002	-.002	0	%100
71	MP-1	Z	-.002	-.002	0	%100
72	MP-2	Z	-.002	-.002	0	%100
73	MP-2B	Z	-.002	-.002	0	%100
74	MP-9	Z	-.002	-.002	0	%100
75	MP-7	Z	-.002	-.002	0	%100
76	MP-8	Z	-.002	-.002	0	%100
77	MP-8B	Z	-.002	-.002	0	%100
78	MP-6	Z	-.002	-.002	0	%100
79	MP-4	Z	-.002	-.002	0	%100
80	MP-5	Z	-.002	-.002	0	%100
81	MP-5B	Z	-.002	-.002	0	%100
82	FF-SR	Z	-.002	-.002	0	%100
83	SF2-SR	Z	-.003	-.003	0	%100
84	SF1-SR	Z	-.000693	-.000693	0	%100
85	SRB-1	Z	-.00048	-.00048	0	%100
86	SRB-2	Z	-.002	-.002	0	%100
87	SRB-3	Z	-.001	-.001	0	%100
88	SRC-1	Z	-.000747	-.000747	0	%100
89	SRC-2	Z	-.003	-.003	0	%100
90	SRC-3	Z	-.002	-.002	0	%100



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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**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	SA1	X	.004	.004	0	%100
2	SA2	X	.002	.002	0	%100
3	SA3	X	.002	.002	0	%100
4	GS11	X	0	0	0	%100
5	GS12	X	.004	.004	0	%100
6	GS13	X	.004	.004	0	%100
7	FF-H2-3	X	.005	.005	0	%100
8	SF1-H2-3	X	0	0	0	%100
9	SF2-H2-1	X	.004	.004	0	%100
10	GS14	X	0	0	0	%100
11	GS15	X	.004	.004	0	%100
12	GS16	X	.004	.004	0	%100
13	GS17	X	0	0	0	%100
14	GS18	X	.004	.004	0	%100
15	GS19	X	.004	.004	0	%100
16	GSC2	X	.005	.005	0	%100
17	GSC1	X	0	0	0	%100
18	GSC3	X	.005	.005	0	%100
19	SF1-H2-2	X	0	0	0	%100
20	FF-H2-2	X	.005	.005	0	%100
21	SF2-H2-2	X	.004	.004	0	%100
22	SF1-H2-1	X	0	0	0	%100
23	FF-H2-1	X	.005	.005	0	%100
24	SF2-H2-3	X	.004	.004	0	%100
25	MP-3	X	.002	.002	0	%100
26	MP-1	X	.002	.002	0	%100
27	MP-2	X	.002	.002	0	%100
28	MP-2B	X	.002	.002	0	%100
29	MP-9	X	.002	.002	0	%100
30	MP-7	X	.002	.002	0	%100
31	MP-8	X	.002	.002	0	%100
32	MP-8B	X	.002	.002	0	%100
33	MP-6	X	.002	.002	0	%100
34	MP-4	X	.002	.002	0	%100
35	MP-5	X	.002	.002	0	%100
36	MP-5B	X	.002	.002	0	%100
37	FF-SR	X	.003	.003	0	%100
38	SF2-SR	X	.002	.002	0	%100
39	SF1-SR	X	0	0	0	%100
40	SRB-1	X	0	0	0	%100
41	SRB-2	X	.002	.002	0	%100
42	SRB-3	X	.002	.002	0	%100
43	SRC-1	X	0	0	0	%100
44	SRC-2	X	.003	.003	0	%100
45	SRC-3	X	.003	.003	0	%100
46	SA1	Z	-.002	-.002	0	%100
47	SA2	Z	-.001	-.001	0	%100
48	SA3	Z	-.001	-.001	0	%100
49	GS11	Z	0	0	0	%100
50	GS12	Z	-.002	-.002	0	%100
51	GS13	Z	-.002	-.002	0	%100
52	FF-H2-3	Z	-.002	-.002	0	%100
53	SF1-H2-3	Z	0	0	0	%100
54	SF2-H2-1	Z	-.003	-.003	0	%100
55	GS14	Z	0	0	0	%100
56	GS15	Z	-.002	-.002	0	%100
57	GS16	Z	-.002	-.002	0	%100





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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
58	GSi7	Z	0	0	%100
59	GSi8	Z	-.002	-.002	%100
60	GSi9	Z	-.002	-.002	%100
61	GSC2	Z	-.003	-.003	%100
62	GSC1	Z	0	0	%100
63	GSC3	Z	-.003	-.003	%100
64	SF1-H2-2	Z	0	0	%100
65	FF-H2-2	Z	-.002	-.002	%100
66	SF2-H2-2	Z	-.003	-.003	%100
67	SF1-H2-1	Z	0	0	%100
68	FF-H2-1	Z	-.002	-.002	%100
69	SF2-H2-3	Z	-.003	-.003	%100
70	MP-3	Z	-.001	-.001	%100
71	MP-1	Z	-.001	-.001	%100
72	MP-2	Z	-.002	-.002	%100
73	MP-2B	Z	-.001	-.001	%100
74	MP-9	Z	-.001	-.001	%100
75	MP-7	Z	-.001	-.001	%100
76	MP-8	Z	-.002	-.002	%100
77	MP-8B	Z	-.001	-.001	%100
78	MP-6	Z	-.001	-.001	%100
79	MP-4	Z	-.001	-.001	%100
80	MP-5	Z	-.002	-.002	%100
81	MP-5B	Z	-.001	-.001	%100
82	FF-SR	Z	-.001	-.001	%100
83	SF2-SR	Z	-.002	-.002	%100
84	SF1-SR	Z	0	0	%100
85	SRB-1	Z	0	0	%100
86	SRB-2	Z	-.001	-.001	%100
87	SRB-3	Z	-.001	-.001	%100
88	SRC-1	Z	0	0	%100
89	SRC-2	Z	-.002	-.002	%100
90	SRC-3	Z	-.002	-.002	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
1	SA1	X	.005	.005	0
2	SA2	X	.005	.005	0
3	SA3	X	.004	.004	0
4	GSi1	X	.005	.005	0
5	GSi2	X	.005	.005	0
6	GSi3	X	.006	.006	0
7	FF-H2-3	X	.006	.006	0
8	SF1-H2-3	X	.006	.006	0
9	SF2-H2-1	X	.006	.006	0
10	GSi4	X	.005	.005	0
11	GSi5	X	.005	.005	0
12	GSi6	X	.006	.006	0
13	GSi7	X	.005	.005	0
14	GSi8	X	.005	.005	0
15	GSi9	X	.005	.005	0
16	GSC2	X	.007	.007	0
17	GSC1	X	.007	.007	0
18	GSC3	X	.007	.007	0
19	SF1-H2-2	X	.006	.006	0
20	FF-H2-2	X	.006	.006	0



**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.%]
21	SF2-H2-2	X	.006	.006	0
22	SF1-H2-1	X	.006	.006	0
23	FF-H2-1	X	.006	.006	0
24	SF2-H2-3	X	.006	.006	0
25	MP-3	X	.003	.003	0
26	MP-1	X	.003	.003	0
27	MP-2	X	.003	.003	0
28	MP-2B	X	.002	.002	0
29	MP-9	X	.003	.003	0
30	MP-7	X	.003	.003	0
31	MP-8	X	.003	.003	0
32	MP-8B	X	.002	.002	0
33	MP-6	X	.003	.003	0
34	MP-4	X	.003	.003	0
35	MP-5	X	.003	.003	0
36	MP-5B	X	.002	.002	0
37	FF-SR	X	.004	.004	0
38	SF2-SR	X	.003	.003	0
39	SF1-SR	X	.003	.003	0
40	SRB-1	X	.002	.002	0
41	SRB-2	X	.002	.002	0
42	SRB-3	X	.003	.003	0
43	SRC-1	X	.004	.004	0
44	SRC-2	X	.004	.004	0
45	SRC-3	X	.004	.004	0

**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	SA1	X	.002	.002	0
2	SA2	X	.004	.004	0
3	SA3	X	.002	.002	0
4	GSi1	X	.004	.004	0
5	GSi2	X	0	0	0
6	GSi3	X	.004	.004	0
7	FF-H2-3	X	.005	.005	0
8	SF1-H2-3	X	.004	.004	0
9	SF2-H2-1	X	0	0	0
10	GSi4	X	.004	.004	0
11	GSi5	X	0	0	0
12	GSi6	X	.004	.004	0
13	GSi7	X	.004	.004	0
14	GSi8	X	0	0	0
15	GSi9	X	.004	.004	0
16	GSC2	X	0	0	0
17	GSC1	X	.005	.005	0
18	GSC3	X	.005	.005	0
19	SF1-H2-2	X	.004	.004	0
20	FF-H2-2	X	.005	.005	0
21	SF2-H2-2	X	0	0	0
22	SF1-H2-1	X	.004	.004	0
23	FF-H2-1	X	.005	.005	0
24	SF2-H2-3	X	0	0	0
25	MP-3	X	.002	.002	0
26	MP-1	X	.002	.002	0
27	MP-2	X	.002	.002	0
28	MP-2B	X	.002	.002	0



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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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.%]	
29	MP-9	X	.002	.002	0	%100
30	MP-7	X	.002	.002	0	%100
31	MP-8	X	.002	.002	0	%100
32	MP-8B	X	.002	.002	0	%100
33	MP-6	X	.002	.002	0	%100
34	MP-4	X	.002	.002	0	%100
35	MP-5	X	.002	.002	0	%100
36	MP-5B	X	.002	.002	0	%100
37	FF-SR	X	.003	.003	0	%100
38	SF2-SR	X	0	0	0	%100
39	SF1-SR	X	.002	.002	0	%100
40	SRB-1	X	.002	.002	0	%100
41	SRB-2	X	0	0	0	%100
42	SRB-3	X	.002	.002	0	%100
43	SRC-1	X	.003	.003	0	%100
44	SRC-2	X	0	0	0	%100
45	SRC-3	X	.003	.003	0	%100
46	SA1	Z	.001	.001	0	%100
47	SA2	Z	.002	.002	0	%100
48	SA3	Z	.001	.001	0	%100
49	GS1	Z	.002	.002	0	%100
50	GS2	Z	0	0	0	%100
51	GS3	Z	.002	.002	0	%100
52	FF-H2-3	Z	.002	.002	0	%100
53	SF1-H2-3	Z	.003	.003	0	%100
54	SF2-H2-1	Z	0	0	0	%100
55	GS4	Z	.002	.002	0	%100
56	GS5	Z	0	0	0	%100
57	GS6	Z	.002	.002	0	%100
58	GS7	Z	.002	.002	0	%100
59	GS8	Z	0	0	0	%100
60	GS9	Z	.002	.002	0	%100
61	GSC2	Z	0	0	0	%100
62	GSC1	Z	.003	.003	0	%100
63	GSC3	Z	.003	.003	0	%100
64	SF1-H2-2	Z	.003	.003	0	%100
65	FF-H2-2	Z	.002	.002	0	%100
66	SF2-H2-2	Z	0	0	0	%100
67	SF1-H2-1	Z	.003	.003	0	%100
68	FF-H2-1	Z	.002	.002	0	%100
69	SF2-H2-3	Z	0	0	0	%100
70	MP-3	Z	.001	.001	0	%100
71	MP-1	Z	.001	.001	0	%100
72	MP-2	Z	.002	.002	0	%100
73	MP-2B	Z	.001	.001	0	%100
74	MP-9	Z	.001	.001	0	%100
75	MP-7	Z	.001	.001	0	%100
76	MP-8	Z	.002	.002	0	%100
77	MP-8B	Z	.001	.001	0	%100
78	MP-6	Z	.001	.001	0	%100
79	MP-4	Z	.001	.001	0	%100
80	MP-5	Z	.002	.002	0	%100
81	MP-5B	Z	.001	.001	0	%100
82	FF-SR	Z	.001	.001	0	%100
83	SF2-SR	Z	0	0	0	%100
84	SF1-SR	Z	.002	.002	0	%100
85	SRB-1	Z	.001	.001	0	%100



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
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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.%]	
86	SRB-2	Z	0	0	0	%100
87	SRB-3	Z	.001	.001	0	%100
88	SRC-1	Z	.002	.002	0	%100
89	SRC-2	Z	0	0	0	%100
90	SRC-3	Z	.002	.002	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	SA1	X	.000888	.000888	0	%100
2	SA2	X	.003	.003	0	%100
3	SA3	X	.002	.002	0	%100
4	GS1	X	.004	.004	0	%100
5	GS2	X	.000956	.000956	0	%100
6	GS3	X	.003	.003	0	%100
7	FF-H2-3	X	.003	.003	0	%100
8	SF1-H2-3	X	.004	.004	0	%100
9	SF2-H2-1	X	.001	.001	0	%100
10	GS4	X	.003	.003	0	%100
11	GS5	X	.000931	.000931	0	%100
12	GS6	X	.003	.003	0	%100
13	GS7	X	.003	.003	0	%100
14	GS8	X	.000911	.000911	0	%100
15	GS9	X	.003	.003	0	%100
16	GSC2	X	.001	.001	0	%100
17	GSC1	X	.005	.005	0	%100
18	GSC3	X	.003	.003	0	%100
19	SF1-H2-2	X	.004	.004	0	%100
20	FF-H2-2	X	.003	.003	0	%100
21	SF2-H2-2	X	.001	.001	0	%100
22	SF1-H2-1	X	.004	.004	0	%100
23	FF-H2-1	X	.003	.003	0	%100
24	SF2-H2-3	X	.001	.001	0	%100
25	MP-3	X	.002	.002	0	%100
26	MP-1	X	.002	.002	0	%100
27	MP-2	X	.002	.002	0	%100
28	MP-2B	X	.002	.002	0	%100
29	MP-9	X	.002	.002	0	%100
30	MP-7	X	.002	.002	0	%100
31	MP-8	X	.002	.002	0	%100
32	MP-8B	X	.002	.002	0	%100
33	MP-6	X	.002	.002	0	%100
34	MP-4	X	.002	.002	0	%100
35	MP-5	X	.002	.002	0	%100
36	MP-5B	X	.002	.002	0	%100
37	FF-SR	X	.002	.002	0	%100
38	SF2-SR	X	.000564	.000564	0	%100
39	SF1-SR	X	.002	.002	0	%100
40	SRB-1	X	.002	.002	0	%100
41	SRB-2	X	.000425	.000425	0	%100
42	SRB-3	X	.001	.001	0	%100
43	SRC-1	X	.003	.003	0	%100
44	SRC-2	X	.000714	.000714	0	%100
45	SRC-3	X	.002	.002	0	%100
46	SA1	Z	.000805	.000805	0	%100
47	SA2	Z	.003	.003	0	%100
48	SA3	Z	.002	.002	0	%100



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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
49	GS1	Z	.004	.004	0	%100
50	GS2	Z	.001	.001	0	%100
51	GS3	Z	.003	.003	0	%100
52	FF-H2-3	Z	.003	.003	0	%100
53	SF1-H2-3	Z	.004	.004	0	%100
54	SF2-H2-1	Z	.001	.001	0	%100
55	GS4	Z	.004	.004	0	%100
56	GS5	Z	.001	.001	0	%100
57	GS6	Z	.003	.003	0	%100
58	GS7	Z	.004	.004	0	%100
59	GS8	Z	.000965	.000965	0	%100
60	GS9	Z	.002	.002	0	%100
61	GSC2	Z	.001	.001	0	%100
62	GSC1	Z	.005	.005	0	%100
63	GSC3	Z	.003	.003	0	%100
64	SF1-H2-2	Z	.004	.004	0	%100
65	FF-H2-2	Z	.003	.003	0	%100
66	SF2-H2-2	Z	.001	.001	0	%100
67	SF1-H2-1	Z	.004	.004	0	%100
68	FF-H2-1	Z	.003	.003	0	%100
69	SF2-H2-3	Z	.001	.001	0	%100
70	MP-3	Z	.002	.002	0	%100
71	MP-1	Z	.002	.002	0	%100
72	MP-2	Z	.002	.002	0	%100
73	MP-2B	Z	.002	.002	0	%100
74	MP-9	Z	.002	.002	0	%100
75	MP-7	Z	.002	.002	0	%100
76	MP-8	Z	.002	.002	0	%100
77	MP-8B	Z	.002	.002	0	%100
78	MP-6	Z	.002	.002	0	%100
79	MP-4	Z	.002	.002	0	%100
80	MP-5	Z	.002	.002	0	%100
81	MP-5B	Z	.002	.002	0	%100
82	FF-SR	Z	.002	.002	0	%100
83	SF2-SR	Z	.000693	.000693	0	%100
84	SF1-SR	Z	.003	.003	0	%100
85	SRB-1	Z	.002	.002	0	%100
86	SRB-2	Z	.00048	.00048	0	%100
87	SRB-3	Z	.001	.001	0	%100
88	SRC-1	Z	.003	.003	0	%100
89	SRC-2	Z	.000747	.000747	0	%100
90	SRC-3	Z	.002	.002	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	SA1	X	0	0	0	%100
2	SA2	X	.002	.002	0	%100
3	SA3	X	.002	.002	0	%100
4	GS1	X	.003	.003	0	%100
5	GS2	X	.001	.001	0	%100
6	GS3	X	.001	.001	0	%100
7	FF-H2-3	X	.002	.002	0	%100
8	SF1-H2-3	X	.003	.003	0	%100
9	SF2-H2-1	X	.001	.001	0	%100
10	GS4	X	.003	.003	0	%100
11	GS5	X	.001	.001	0	%100



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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
12	GS6	X	.001	.001	0	%100
13	GS7	X	.002	.002	0	%100
14	GS8	X	.001	.001	0	%100
15	GS9	X	.001	.001	0	%100
16	GSC2	X	.002	.002	0	%100
17	GSC1	X	.003	.003	0	%100
18	GSC3	X	.002	.002	0	%100
19	SF1-H2-2	X	.003	.003	0	%100
20	FF-H2-2	X	.002	.002	0	%100
21	SF2-H2-2	X	.001	.001	0	%100
22	SF1-H2-1	X	.003	.003	0	%100
23	FF-H2-1	X	.002	.002	0	%100
24	SF2-H2-3	X	.001	.001	0	%100
25	MP-3	X	.001	.001	0	%100
26	MP-1	X	.001	.001	0	%100
27	MP-2	X	.001	.001	0	%100
28	MP-2B	X	.001	.001	0	%100
29	MP-9	X	.001	.001	0	%100
30	MP-7	X	.001	.001	0	%100
31	MP-8	X	.001	.001	0	%100
32	MP-8B	X	.001	.001	0	%100
33	MP-6	X	.001	.001	0	%100
34	MP-4	X	.001	.001	0	%100
35	MP-5	X	.001	.001	0	%100
36	MP-5B	X	.001	.001	0	%100
37	FF-SR	X	.000947	.000947	0	%100
38	SF2-SR	X	.000771	.000771	0	%100
39	SF1-SR	X	.002	.002	0	%100
40	SRB-1	X	.001	.001	0	%100
41	SRB-2	X	.000581	.000581	0	%100
42	SRB-3	X	.000683	.000683	0	%100
43	SRC-1	X	.002	.002	0	%100
44	SRC-2	X	.000975	.000975	0	%100
45	SRC-3	X	.001	.001	0	%100
46	SA1	Z	0	0	0	%100
47	SA2	Z	.003	.003	0	%100
48	SA3	Z	.004	.004	0	%100
49	GS1	Z	.005	.005	0	%100
50	GS2	Z	.002	.002	0	%100
51	GS3	Z	.002	.002	0	%100
52	FF-H2-3	Z	.002	.002	0	%100
53	SF1-H2-3	Z	.005	.005	0	%100
54	SF2-H2-1	Z	.003	.003	0	%100
55	GS4	Z	.005	.005	0	%100
56	GS5	Z	.002	.002	0	%100
57	GS6	Z	.002	.002	0	%100
58	GS7	Z	.005	.005	0	%100
59	GS8	Z	.002	.002	0	%100
60	GS9	Z	.002	.002	0	%100
61	GSC2	Z	.003	.003	0	%100
62	GSC1	Z	.006	.006	0	%100
63	GSC3	Z	.003	.003	0	%100
64	SF1-H2-2	Z	.005	.005	0	%100
65	FF-H2-2	Z	.002	.002	0	%100
66	SF2-H2-2	Z	.003	.003	0	%100
67	SF1-H2-1	Z	.005	.005	0	%100
68	FF-H2-1	Z	.002	.002	0	%100



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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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.%]	
69	SF2-H2-3	Z	.003	.003	0	%100
70	MP-3	Z	.003	.003	0	%100
71	MP-1	Z	.003	.003	0	%100
72	MP-2	Z	.003	.003	0	%100
73	MP-2B	Z	.002	.002	0	%100
74	MP-9	Z	.003	.003	0	%100
75	MP-7	Z	.003	.003	0	%100
76	MP-8	Z	.003	.003	0	%100
77	MP-8B	Z	.002	.002	0	%100
78	MP-6	Z	.003	.003	0	%100
79	MP-4	Z	.003	.003	0	%100
80	MP-5	Z	.003	.003	0	%100
81	MP-5B	Z	.002	.002	0	%100
82	FF-SR	Z	.001	.001	0	%100
83	SF2-SR	Z	.002	.002	0	%100
84	SF1-SR	Z	.003	.003	0	%100
85	SRB-1	Z	.002	.002	0	%100
86	SRB-2	Z	.001	.001	0	%100
87	SRB-3	Z	.001	.001	0	%100
88	SRC-1	Z	.004	.004	0	%100
89	SRC-2	Z	.002	.002	0	%100
90	SRC-3	Z	.002	.002	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	SA1	Z	.002	.002	0	%100
2	SA2	Z	.002	.002	0	%100
3	SA3	Z	.005	.005	0	%100
4	GS1	Z	.005	.005	0	%100
5	GS2	Z	.005	.005	0	%100
6	GS3	Z	0	0	0	%100
7	FF-H2-3	Z	0	0	0	%100
8	SF1-H2-3	Z	.005	.005	0	%100
9	SF2-H2-1	Z	.005	.005	0	%100
10	GS4	Z	.005	.005	0	%100
11	GS5	Z	.005	.005	0	%100
12	GS6	Z	0	0	0	%100
13	GS7	Z	.005	.005	0	%100
14	GS8	Z	.005	.005	0	%100
15	GS9	Z	0	0	0	%100
16	GSC2	Z	.006	.006	0	%100
17	GSC1	Z	.006	.006	0	%100
18	GSC3	Z	0	0	0	%100
19	SF1-H2-2	Z	.005	.005	0	%100
20	FF-H2-2	Z	0	0	0	%100
21	SF2-H2-2	Z	.005	.005	0	%100
22	SF1-H2-1	Z	.005	.005	0	%100
23	FF-H2-1	Z	0	0	0	%100
24	SF2-H2-3	Z	.005	.005	0	%100
25	MP-3	Z	.003	.003	0	%100
26	MP-1	Z	.003	.003	0	%100
27	MP-2	Z	.003	.003	0	%100
28	MP-2B	Z	.002	.002	0	%100
29	MP-9	Z	.003	.003	0	%100
30	MP-7	Z	.003	.003	0	%100
31	MP-8	Z	.003	.003	0	%100



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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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.%]	
32	MP-8B	Z	.002	.002	0	%100
33	MP-6	Z	.003	.003	0	%100
34	MP-4	Z	.003	.003	0	%100
35	MP-5	Z	.003	.003	0	%100
36	MP-5B	Z	.002	.002	0	%100
37	FF-SR	Z	0	0	0	%100
38	SF2-SR	Z	.003	.003	0	%100
39	SF1-SR	Z	.003	.003	0	%100
40	SRB-1	Z	.002	.002	0	%100
41	SRB-2	Z	.002	.002	0	%100
42	SRB-3	Z	0	0	0	%100
43	SRC-1	Z	.004	.004	0	%100
44	SRC-2	Z	.004	.004	0	%100
45	SRC-3	Z	0	0	0	%100

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

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	SA1	X	-.002	-.002	0	%100
2	SA2	X	0	0	0	%100
3	SA3	X	-.002	-.002	0	%100
4	GS1	X	-.001	-.001	0	%100
5	GS2	X	-.003	-.003	0	%100
6	GS3	X	-.001	-.001	0	%100
7	FF-H2-3	X	-.002	-.002	0	%100
8	SF1-H2-3	X	-.001	-.001	0	%100
9	SF2-H2-1	X	-.003	-.003	0	%100
10	GS4	X	-.001	-.001	0	%100
11	GS5	X	-.003	-.003	0	%100
12	GS6	X	-.001	-.001	0	%100
13	GS7	X	-.001	-.001	0	%100
14	GS8	X	-.002	-.002	0	%100
15	GS9	X	-.001	-.001	0	%100
16	GSC2	X	-.003	-.003	0	%100
17	GSC1	X	-.002	-.002	0	%100
18	GSC3	X	-.002	-.002	0	%100
19	SF1-H2-2	X	-.001	-.001	0	%100
20	FF-H2-2	X	-.002	-.002	0	%100
21	SF2-H2-2	X	-.003	-.003	0	%100
22	SF1-H2-1	X	-.001	-.001	0	%100
23	FF-H2-1	X	-.002	-.002	0	%100
24	SF2-H2-3	X	-.003	-.003	0	%100
25	MP-3	X	-.001	-.001	0	%100
26	MP-1	X	-.001	-.001	0	%100
27	MP-2	X	-.001	-.001	0	%100
28	MP-2B	X	-.001	-.001	0	%100
29	MP-9	X	-.001	-.001	0	%100
30	MP-7	X	-.001	-.001	0	%100
31	MP-8	X	-.001	-.001	0	%100
32	MP-8B	X	-.001	-.001	0	%100
33	MP-6	X	-.001	-.001	0	%100
34	MP-4	X	-.001	-.001	0	%100
35	MP-5	X	-.001	-.001	0	%100
36	MP-5B	X	-.001	-.001	0	%100
37	FF-SR	X	-.000947	-.000947	0	%100
38	SF2-SR	X	-.002	-.002	0	%100
39	SF1-SR	X	-.000771	-.000771	0	%100



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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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.%]	
40	SRB-1	X	-0.00581	-0.00581	0	%100
41	SRB-2	X	-0.001	-0.001	0	%100
42	SRB-3	X	-0.00683	-0.00683	0	%100
43	SRC-1	X	-0.00975	-0.00975	0	%100
44	SRC-2	X	-0.002	-0.002	0	%100
45	SRC-3	X	-0.001	-0.001	0	%100
46	SA1	Z	.003	.003	0	%100
47	SA2	Z	0	0	0	%100
48	SA3	Z	.004	.004	0	%100
49	GS1	Z	.002	.002	0	%100
50	GS2	Z	.005	.005	0	%100
51	GS3	Z	.002	.002	0	%100
52	FF-H2-3	Z	.002	.002	0	%100
53	SF1-H2-3	Z	.003	.003	0	%100
54	SF2-H2-1	Z	.005	.005	0	%100
55	GS4	Z	.002	.002	0	%100
56	GS5	Z	.005	.005	0	%100
57	GS6	Z	.002	.002	0	%100
58	GS7	Z	.002	.002	0	%100
59	GS8	Z	.005	.005	0	%100
60	GS9	Z	.002	.002	0	%100
61	GSC2	Z	.006	.006	0	%100
62	GSC1	Z	.003	.003	0	%100
63	GSC3	Z	.003	.003	0	%100
64	SF1-H2-2	Z	.003	.003	0	%100
65	FF-H2-2	Z	.002	.002	0	%100
66	SF2-H2-2	Z	.005	.005	0	%100
67	SF1-H2-1	Z	.003	.003	0	%100
68	FF-H2-1	Z	.002	.002	0	%100
69	SF2-H2-3	Z	.005	.005	0	%100
70	MP-3	Z	.003	.003	0	%100
71	MP-1	Z	.003	.003	0	%100
72	MP-2	Z	.003	.003	0	%100
73	MP-2B	Z	.002	.002	0	%100
74	MP-9	Z	.003	.003	0	%100
75	MP-7	Z	.003	.003	0	%100
76	MP-8	Z	.003	.003	0	%100
77	MP-8B	Z	.002	.002	0	%100
78	MP-6	Z	.003	.003	0	%100
79	MP-4	Z	.003	.003	0	%100
80	MP-5	Z	.003	.003	0	%100
81	MP-5B	Z	.002	.002	0	%100
82	FF-SR	Z	.001	.001	0	%100
83	SF2-SR	Z	.003	.003	0	%100
84	SF1-SR	Z	.002	.002	0	%100
85	SRB-1	Z	.001	.001	0	%100
86	SRB-2	Z	.002	.002	0	%100
87	SRB-3	Z	.001	.001	0	%100
88	SRC-1	Z	.002	.002	0	%100
89	SRC-2	Z	.004	.004	0	%100
90	SRC-3	Z	.002	.002	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	SA1	X	-0.003	-0.003	0	%100
2	SA2	X	-0.000888	-0.000888	0	%100



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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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.%]	
3	SA3	X	-0.002	-0.002	0	%100
4	GS1	X	-0.000956	-0.000956	0	%100
5	GS2	X	-0.004	-0.004	0	%100
6	GS3	X	-0.003	-0.003	0	%100
7	FF-H2-3	X	-0.003	-0.003	0	%100
8	SF1-H2-3	X	-0.001	-0.001	0	%100
9	SF2-H2-1	X	-0.004	-0.004	0	%100
10	GS4	X	-0.000931	-0.000931	0	%100
11	GS5	X	-0.003	-0.003	0	%100
12	GS6	X	-0.003	-0.003	0	%100
13	GS7	X	-0.000911	-0.000911	0	%100
14	GS8	X	-0.003	-0.003	0	%100
15	GS9	X	-0.003	-0.003	0	%100
16	GSC2	X	-0.005	-0.005	0	%100
17	GSC1	X	-0.001	-0.001	0	%100
18	GSC3	X	-0.003	-0.003	0	%100
19	SF1-H2-2	X	-0.001	-0.001	0	%100
20	FF-H2-2	X	-0.003	-0.003	0	%100
21	SF2-H2-2	X	-0.004	-0.004	0	%100
22	SF1-H2-1	X	-0.001	-0.001	0	%100
23	FF-H2-1	X	-0.003	-0.003	0	%100
24	SF2-H2-3	X	-0.004	-0.004	0	%100
25	MP-3	X	-0.002	-0.002	0	%100
26	MP-1	X	-0.002	-0.002	0	%100
27	MP-2	X	-0.002	-0.002	0	%100
28	MP-2B	X	-0.002	-0.002	0	%100
29	MP-9	X	-0.002	-0.002	0	%100
30	MP-7	X	-0.002	-0.002	0	%100
31	MP-8	X	-0.002	-0.002	0	%100
32	MP-8B	X	-0.002	-0.002	0	%100
33	MP-6	X	-0.002	-0.002	0	%100
34	MP-4	X	-0.002	-0.002	0	%100
35	MP-5	X	-0.002	-0.002	0	%100
36	MP-5B	X	-0.002	-0.002	0	%100
37	FF-SR	X	-0.002	-0.002	0	%100
38	SF2-SR	X	-0.002	-0.002	0	%100
39	SF1-SR	X	-0.00564	-0.00564	0	%100
40	SRB-1	X	-0.000425	-0.000425	0	%100
41	SRB-2	X	-0.002	-0.002	0	%100
42	SRB-3	X	-0.001	-0.001	0	%100
43	SRC-1	X	-0.000714	-0.000714	0	%100
44	SRC-2	X	-0.003	-0.003	0	%100
45	SRC-3	X	-0.002	-0.002	0	%100
46	SA1	Z	.003	.003	0	%100
47	SA2	Z	.000805	.000805	0	%100
48	SA3	Z	.002	.002	0	%100
49	GS1	Z	.001	.001	0	%100
50	GS2	Z	.004	.004	0	%100
51	GS3	Z	.003	.003	0	%100
52	FF-H2-3	Z	.003	.003	0	%100
53	SF1-H2-3	Z	.001	.001	0	%100
54	SF2-H2-1	Z	.004	.004	0	%100
55	GS4	Z	.001	.001	0	%100
56	GS5	Z	.004	.004	0	%100
57	GS6	Z	.003	.003	0	%100
58	GS7	Z	.000965	.000965	0	%100
59	GS8	Z	.004	.004	0	%100



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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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.%)	
60	GS19	Z	.002	.002	0	%100
61	GSC2	Z	.005	.005	0	%100
62	GSC1	Z	.001	.001	0	%100
63	GSC3	Z	.003	.003	0	%100
64	SF1-H2-2	Z	.001	.001	0	%100
65	FF-H2-2	Z	.003	.003	0	%100
66	SF2-H2-2	Z	.004	.004	0	%100
67	SF1-H2-1	Z	.001	.001	0	%100
68	FF-H2-1	Z	.003	.003	0	%100
69	SF2-H2-3	Z	.004	.004	0	%100
70	MP-3	Z	.002	.002	0	%100
71	MP-1	Z	.002	.002	0	%100
72	MP-2	Z	.002	.002	0	%100
73	MP-2B	Z	.002	.002	0	%100
74	MP-9	Z	.002	.002	0	%100
75	MP-7	Z	.002	.002	0	%100
76	MP-8	Z	.002	.002	0	%100
77	MP-8B	Z	.002	.002	0	%100
78	MP-6	Z	.002	.002	0	%100
79	MP-4	Z	.002	.002	0	%100
80	MP-5	Z	.002	.002	0	%100
81	MP-5B	Z	.002	.002	0	%100
82	FF-SR	Z	.002	.002	0	%100
83	SF2-SR	Z	.003	.003	0	%100
84	SF1-SR	Z	.000693	.000693	0	%100
85	SRB-1	Z	.00048	.00048	0	%100
86	SRB-2	Z	.002	.002	0	%100
87	SRB-3	Z	.001	.001	0	%100
88	SRC-1	Z	.000747	.000747	0	%100
89	SRC-2	Z	.003	.003	0	%100
90	SRC-3	Z	.002	.002	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	SA1	X	-.004	-.004	0	%100
2	SA2	X	-.002	-.002	0	%100
3	SA3	X	-.002	-.002	0	%100
4	GS11	X	0	0	0	%100
5	GS12	X	-.004	-.004	0	%100
6	GS13	X	-.004	-.004	0	%100
7	FF-H2-3	X	-.005	-.005	0	%100
8	SF1-H2-3	X	0	0	0	%100
9	SF2-H2-1	X	-.004	-.004	0	%100
10	GS14	X	0	0	0	%100
11	GS15	X	-.004	-.004	0	%100
12	GS16	X	-.004	-.004	0	%100
13	GS17	X	0	0	0	%100
14	GS18	X	-.004	-.004	0	%100
15	GS19	X	-.004	-.004	0	%100
16	GSC2	X	-.005	-.005	0	%100
17	GSC1	X	0	0	0	%100
18	GSC3	X	-.005	-.005	0	%100
19	SF1-H2-2	X	0	0	0	%100
20	FF-H2-2	X	-.005	-.005	0	%100
21	SF2-H2-2	X	-.004	-.004	0	%100
22	SF1-H2-1	X	0	0	0	%100



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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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.%)	
23	FF-H2-1	X	-.005	-.005	0	%100
24	SF2-H2-3	X	-.004	-.004	0	%100
25	MP-3	X	-.002	-.002	0	%100
26	MP-1	X	-.002	-.002	0	%100
27	MP-2	X	-.002	-.002	0	%100
28	MP-2B	X	-.002	-.002	0	%100
29	MP-9	X	-.002	-.002	0	%100
30	MP-7	X	-.002	-.002	0	%100
31	MP-8	X	-.002	-.002	0	%100
32	MP-8B	X	-.002	-.002	0	%100
33	MP-6	X	-.002	-.002	0	%100
34	MP-4	X	-.002	-.002	0	%100
35	MP-5	X	-.002	-.002	0	%100
36	MP-5B	X	-.002	-.002	0	%100
37	FF-SR	X	-.003	-.003	0	%100
38	SF2-SR	X	-.002	-.002	0	%100
39	SF1-SR	X	0	0	0	%100
40	SRB-1	X	0	0	0	%100
41	SRB-2	X	-.002	-.002	0	%100
42	SRB-3	X	-.002	-.002	0	%100
43	SRC-1	X	0	0	0	%100
44	SRC-2	X	-.003	-.003	0	%100
45	SRC-3	X	-.003	-.003	0	%100
46	SA1	Z	.002	.002	0	%100
47	SA2	Z	.001	.001	0	%100
48	SA3	Z	.001	.001	0	%100
49	GS11	Z	0	0	0	%100
50	GS12	Z	.002	.002	0	%100
51	GS13	Z	.002	.002	0	%100
52	FF-H2-3	Z	.002	.002	0	%100
53	SF1-H2-3	Z	0	0	0	%100
54	SF2-H2-1	Z	.003	.003	0	%100
55	GS14	Z	0	0	0	%100
56	GS15	Z	.002	.002	0	%100
57	GS16	Z	-.002	-.002	0	%100
58	GS17	Z	0	0	0	%100
59	GS18	Z	.002	.002	0	%100
60	GS19	Z	.002	.002	0	%100
61	GSC2	Z	.003	.003	0	%100
62	GSC1	Z	0	0	0	%100
63	GSC3	Z	.003	.003	0	%100
64	SF1-H2-2	Z	0	0	0	%100
65	FF-H2-2	Z	.002	.002	0	%100
66	SF2-H2-2	Z	.003	.003	0	%100
67	SF1-H2-1	Z	0	0	0	%100
68	FF-H2-1	Z	.002	.002	0	%100
69	SF2-H2-3	Z	.003	.003	0	%100
70	MP-3	Z	.001	.001	0	%100
71	MP-1	Z	.001	.001	0	%100
72	MP-2	Z	.002	.002	0	%100
73	MP-2B	Z	.001	.001	0	%100
74	MP-9	Z	.001	.001	0	%100
75	MP-7	Z	.001	.001	0	%100
76	MP-8	Z	.002	.002	0	%100
77	MP-8B	Z	.001	.001	0	%100
78	MP-6	Z	.001	.001	0	%100
79	MP-4	Z	.001	.001	0	%100





Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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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.%]	
80	MP-5	Z	.002	.002	0	%100
81	MP-5B	Z	.001	.001	0	%100
82	FF-SR	Z	.001	.001	0	%100
83	SF2-SR	Z	.002	.002	0	%100
84	SF1-SR	Z	0	0	0	%100
85	SRB-1	Z	0	0	0	%100
86	SRB-2	Z	.001	.001	0	%100
87	SRB-3	Z	.001	.001	0	%100
88	SRC-1	Z	0	0	0	%100
89	SRC-2	Z	.002	.002	0	%100
90	SRC-3	Z	.002	.002	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	SA3	Y	-.013	-.013	2.923	4.241
2	GS13	Y	-.006	-.006	.162	4.878
3	SF1-H2-3	Y	-.006	-.005	2.202	2.759
4	SF1-H2-3	Y	-.005	-.005	2.759	3.315
5	SF1-H2-3	Y	-.005	-.006	3.315	3.872
6	GS16	Y	-.007	-.008	0	.775
7	GS16	Y	-.008	-.008	.775	1.549
8	GS16	Y	-.008	-.008	1.549	2.324
9	GS16	Y	-.008	-.008	2.324	3.098
10	GS16	Y	-.008	-.007	3.098	3.873
11	GS19	Y	-.004	-.004	0	2.351
12	SF2-H2-3	Y	-.006	-.005	1.378	1.935
13	SF2-H2-3	Y	-.005	-.005	1.935	2.491
14	SF2-H2-3	Y	-.005	-.006	2.491	3.048
15	SA2	Y	-.097	-.112	3.206	3.238
16	SA2	Y	-.112	-.06	3.238	3.271
17	SA2	Y	-.06	-.0002776	3.271	3.304
18	SA2	Y	-.0002776	-.0002776	3.304	3.337
19	SA2	Y	-.0002776	-.0002776	3.337	3.37
20	SA2	Y	-.0002776	-.0002776	3.37	3.402
21	SA2	Y	-.0002776	-.0002776	3.402	3.435
22	SA2	Y	-.0002776	-.0002776	3.435	3.468
23	SA2	Y	-.0002776	-.0002776	3.468	3.501
24	SA2	Y	-.0002776	-.0002776	3.501	3.534
25	SA2	Y	-.0002776	-.0002776	3.534	3.566
26	SA2	Y	-.0002776	-.0002776	3.566	3.599
27	SA2	Y	-.0002776	-.0002776	3.599	3.632
28	SA2	Y	-.0002776	-.0002776	3.632	3.665
29	SA2	Y	-.0002776	-.0002776	3.665	3.698
30	SA2	Y	-.0002776	-.0002776	3.698	3.73
31	SA2	Y	-.0002776	-.0002776	3.73	3.763
32	SA2	Y	-.0002776	-.0002776	3.763	3.796
33	SA2	Y	-.0002776	-.0002776	3.796	3.829
34	SA2	Y	-.0002776	-.074	3.829	3.862
35	SA2	Y	-.074	-.143	3.862	3.894
36	SA2	Y	-.143	-.134	3.894	3.927
37	GS12	Y	-.006	-.006	.153	4.879
38	FF-H2-3	Y	-.006	-.005	2.202	2.76
39	FF-H2-3	Y	-.005	-.005	2.76	3.317
40	FF-H2-3	Y	-.005	-.006	3.317	3.875
41	GS15	Y	-.002	-.007	0	.775
42	GS15	Y	-.007	-.009	.775	1.549



Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

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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.%]	
43	GS15	Y	-.009	-.009	1.549	2.324
44	GS15	Y	-.009	-.008	2.324	3.098
45	GS15	Y	-.008	-.007	3.098	3.873
46	GS18	Y	-.004	-.004	0	2.351
47	SF1-H2-1	Y	-.005	-.004	1.05	3.675
48	SA1	Y	-.007	-.01	2.55	3.4
49	SA1	Y	-.01	-.012	3.4	4.25
50	GS11	Y	-.006	-.006	.153	4.879
51	SF2-H2-1	Y	-.003	-.006	1.575	4.2
52	GS14	Y	-.007	-.008	0	.775
53	GS14	Y	-.008	-.009	.775	1.549
54	GS14	Y	-.009	-.009	1.549	2.324
55	GS14	Y	-.009	-.007	2.324	3.098
56	GS14	Y	-.007	-.002	3.098	3.873
57	GS17	Y	-.004	-.004	0	2.351
58	FF-H2-1	Y	-.006	-.005	1.376	1.933
59	FF-H2-1	Y	-.005	-.005	1.933	2.491
60	FF-H2-1	Y	-.005	-.006	2.491	3.048

**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	SA3	Y	-.005	-.005	2.923	4.241
2	GS13	Y	-.003	-.003	.162	4.878
3	SF1-H2-3	Y	-.002	-.002	2.202	2.759
4	SF1-H2-3	Y	-.002	-.002	2.759	3.315
5	SF1-H2-3	Y	-.002	-.002	3.315	3.872
6	GS16	Y	-.003	-.003	0	.775
7	GS16	Y	-.003	-.004	.775	1.549
8	GS16	Y	-.004	-.004	1.549	2.324
9	GS16	Y	-.004	-.003	2.324	3.098
10	GS16	Y	-.003	-.003	3.098	3.873
11	GS19	Y	-.002	-.002	0	2.351
12	SF2-H2-3	Y	-.002	-.002	1.378	1.935
13	SF2-H2-3	Y	-.002	-.002	1.935	2.491
14	SF2-H2-3	Y	-.002	-.002	2.491	3.048
15	SA2	Y	-.04	-.047	3.206	3.238
16	SA2	Y	-.047	-.025	3.238	3.271
17	SA2	Y	-.025	-.0001157	3.271	3.304
18	SA2	Y	-.0001157	-.0001157	3.304	3.337
19	SA2	Y	-.0001157	-.0001157	3.337	3.37
20	SA2	Y	-.0001157	-.0001157	3.37	3.402
21	SA2	Y	-.0001157	-.0001157	3.402	3.435
22	SA2	Y	-.0001157	-.0001157	3.435	3.468
23	SA2	Y	-.0001157	-.0001157	3.468	3.501
24	SA2	Y	-.0001157	-.0001157	3.501	3.534
25	SA2	Y	-.0001157	-.0001157	3.534	3.566
26	SA2	Y	-.0001157	-.0001157	3.566	3.599
27	SA2	Y	-.0001157	-.0001157	3.599	3.632
28	SA2	Y	-.0001157	-.0001157	3.632	3.665
29	SA2	Y	-.0001157	-.0001157	3.665	3.698
30	SA2	Y	-.0001157	-.0001157	3.698	3.73
31	SA2	Y	-.0001157	-.0001157	3.73	3.763
32	SA2	Y	-.0001157	-.0001157	3.763	3.796
33	SA2	Y	-.0001157	-.0001157	3.796	3.829
34	SA2	Y	-.0001157	-.031	3.829	3.862
35	SA2	Y	-.031	-.06	3.862	3.894



Company : Tower Engineering Professionals  
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 Job Number : TEP No. 25633.415540  
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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]	Start Location[ft.%]	End Location[ft.%]	
36	SA2	Y	-0.06	-0.056	3.894	3.927
37	GS12	Y	-0.003	-0.003	.153	4.879
38	FF-H2-3	Y	-0.002	-0.002	2.202	2.76
39	FF-H2-3	Y	-0.002	-0.002	2.76	3.317
40	FF-H2-3	Y	-0.002	-0.002	3.317	3.875
41	GS15	Y	-0.0006978	-0.003	0	.775
42	GS15	Y	-0.003	-0.004	.775	1.549
43	GS15	Y	-0.004	-0.004	1.549	2.324
44	GS15	Y	-0.004	-0.003	2.324	3.098
45	GS15	Y	-0.003	-0.003	3.098	3.873
46	GS18	Y	-0.001	-0.001	0	2.351
47	SF1-H2-1	Y	-0.002	-0.001	1.05	3.675
48	SA1	Y	-0.04	-0.047	3.206	3.238
49	SA1	Y	-0.047	-0.025	3.238	3.271
50	SA1	Y	-0.025	-0.0001157	3.271	3.304
51	SA1	Y	-0.0001157	-0.0001157	3.304	3.337
52	SA1	Y	-0.0001157	-0.0001157	3.337	3.37
53	SA1	Y	-0.0001157	-0.0001157	3.37	3.402
54	SA1	Y	-0.0001157	-0.0001157	3.402	3.435
55	SA1	Y	-0.0001157	-0.0001157	3.435	3.468
56	SA1	Y	-0.0001157	-0.0001157	3.468	3.501
57	SA1	Y	-0.0001157	-0.0001157	3.501	3.534
58	SA1	Y	-0.0001157	-0.0001157	3.534	3.566
59	SA1	Y	-0.0001157	-0.0001157	3.566	3.599
60	SA1	Y	-0.0001157	-0.0001157	3.599	3.632
61	SA1	Y	-0.0001157	-0.0001157	3.632	3.665
62	SA1	Y	-0.0001157	-0.0001157	3.665	3.698
63	SA1	Y	-0.0001157	-0.0001157	3.698	3.73
64	SA1	Y	-0.0001157	-0.0001157	3.73	3.763
65	SA1	Y	-0.0001157	-0.0001157	3.763	3.796
66	SA1	Y	-0.0001157	-0.0001157	3.796	3.829
67	SA1	Y	-0.0001157	-0.031	3.829	3.862
68	SA1	Y	-0.031	-0.06	3.862	3.894
69	SA1	Y	-0.06	-0.056	3.894	3.927
70	GS11	Y	-0.003	-0.003	.161	4.886
71	SF2-H2-1	Y	-0.001	-0.003	1.575	4.2
72	GS14	Y	-0.003	-0.003	0	.775
73	GS14	Y	-0.003	-0.004	.775	1.549
74	GS14	Y	-0.004	-0.004	1.549	2.324
75	GS14	Y	-0.004	-0.003	2.324	3.098
76	GS14	Y	-0.003	-0.0006978	3.098	3.873
77	GS17	Y	-0.001	-0.001	0	2.351
78	FF-H2-1	Y	-0.002	-0.002	1.375	1.933
79	FF-H2-1	Y	-0.002	-0.002	1.933	2.49
80	FF-H2-1	Y	-0.002	-0.002	2.49	3.048

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

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]	
1	GS15	GS16	GS18	GS17	Y	Two Way	-0.012
2	GS14	GS13	GS15	GS16	Y	Two Way	-0.012
3	GS12	GS11	GS13	GS14	Y	Two Way	-0.012

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

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]	
1	GS15	GS16	GS18	GS17	Y	Two Way	-0.005



Company : Tower Engineering Professionals  
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 Job Number : TEP No. 25633.415540  
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**Member Area Loads (BLC 18 : Ice Weight) (Continued)**

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]	
2	GS14	GS13	GS15	GS16	Y	Two Way	-0.005
3	GS12	GS14	GS13	GS11	Y	Two Way	-0.005

**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	SA3	max	2.639	2	2.567	34	1.289	6	.588	6	2.289	6	1.16	10
2		min	-2.675	26	-1.83	10	-1.287	14	-.662	30	-2.291	14	-5.834	34
3	SA1	max	1.616	18	2.507	45	2.341	21	1.014	5	2.271	17	2.92	44
4		min	-1.598	10	-1.85	5	-2.31	13	-4.853	45	-2.272	9	-.655	4
5	SA2	max	1.398	32	2.507	39	2.282	7	4.946	39	2.271	11	2.814	57
6		min	-1.38	8	-1.84	15	-2.314	31	-1.006	15	-2.272	3	-.654	16
7	Totals:	max	5.634	18	6.773	49	5.483	22						
8		min	-5.634	26	2.443	9	-5.483	14						

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

Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	phi*Pnc	phi*Pnt	phi*Mn y-y	phi*Mn z-z	Cb	Eqn	
1	MP-8	PIPE 2.0	500	3.938	32	.097	3.938	z	31	29.582	32.13	1.872	1.872	1....	H1-1b
2	MP-1	PIPE 2.0	491	5	29	.097	5	z	29	19.964	32.13	1.872	1.872	2....	H1-1b
3	MP-7	PIPE 2.0	491	5	23	.097	5	z	23	19.964	32.13	1.872	1.872	2....	H1-1b
4	MP-2	PIPE 2.0	491	3.938	22	.097	3.938	z	21	29.582	32.13	1.872	1.872	2....	H1-1b
5	MP-4	PIPE 2.0	490	5	18	.097	5	z	18	19.964	32.13	1.872	1.872	2....	H1-1b
6	MP-5	PIPE 2.0	490	3.938	27	.096	3.938	z	26	29.582	32.13	1.872	1.872	1....	H1-1b
7	MP-3	PIPE 2.0	453	5	23	.085	5	z	24	19.964	32.13	1.872	1.872	2....	H1-1b
8	MP-6	PIPE 2.0	453	5	29	.084	5	z	29	19.964	32.13	1.872	1.872	2....	H1-1b
9	MP-9	PIPE 2.0	453	5	18	.084	5	z	18	19.964	32.13	1.872	1.872	2....	H1-1b
10	SRC-2	L2.5x2.5x4	420	1.5	28	.064	0	z	28	35.827	38.556	1.114	2.537	2....	H2-1
11	SRC-3	L2.5x2.5x4	411	1.5	23	.062	0	z	22	35.827	38.556	1.114	2.537	2....	H2-1
12	SRC-1	L2.5x2.5x4	410	0	18	.061	1.5	v	33	35.827	38.556	1.114	2.537	2....	H2-1
13	SA3	HSS6X3X6	283	0	34	.081	0	z	48	128.908	226.872	20.803	34.155	2....	H1-1b
14	SA2	HSS6X3X6	274	0	39	.081	0	z	37	128.908	226.872	20.803	34.155	1....	H1-1b
15	SA1	HSS6X3X6	274	0	45	.083	0	z	42	128.908	226.872	20.803	34.155	2....	H1-1b
16	FF-SR	PIPE 2.5	255	6.51	23	.190	11.4...	z	18	3.301	50.715	3.596	3.596	3....	H1-1b
17	SF2-SR	PIPE 2.5	255	6.51	29	.190	11.4...	z	23	3.301	50.715	3.596	3.596	3....	H1-1b
18	SF1-SR	PIPE 2.5	254	6.51	18	.190	11.4...	z	29	3.301	50.715	3.596	3.596	3....	H1-1b
19	MP-8B	PIPE 2.0	.079	1.688	32	.014	2.75	z	19	23.088	32.13	1.872	1.872	1....	H1-1b
20	MP-2B	PIPE 2.0	.077	1.531	22	.014	2.75	z	25	23.088	32.13	1.872	1.872	1....	H1-1b
21	MP-5B	PIPE 2.0	.076	1.531	27	.014	2.75	z	30	23.088	32.13	1.872	1.872	1....	H1-1b
22	SRB-3	PIPE 2.0	.022	2.467	26	.071	0	z	30	23.999	32.13	1.872	1.872	1....	H1-1b
23	SRB-2	PIPE 2.0	.021	2.467	31	.071	0	z	19	23.999	32.13	1.872	1.872	1....	H1-1b
24	SRB-1	PIPE 2.0	.021	2.467	21	.071	0	z	25	23.999	32.13	1.872	1.872	1....	H1-1b
25	GSC3	PL3.5x3	.009	.433	24	.083	.433	v	33	13.09	21.262	.083	1.55	2....	H1-1..
26	GSC1	PL3.5x3	.008	.433	19	.082	.433	v	27	13.09	21.262	.083	1.55	2....	H1-1..
27	GSC2	PL3.5x3	.008	.433	30	.087	0	y	63	13.09	21.262	.083	1.55	2....	H1-1..

**Envelope AISI S100-16: LRFD Cold Formed Steel Code Checks**

Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	phi*Pnc	phi*Pnt	phi*Mn y-y	phi*Mn z-z	Cb	Eqn		
1	GS17	Sabre Zoo	.467	1.176	20	.059	1.176	z	20	49.881	57.218	2.858	6.372	12.2...	19.7...1.407	H1-1-1
2	GS18	Sabre Zoo	.465	1.176	30	.059	1.176	z	30	49.881	57.218	2.858	6.372	12.2...	19.7...1.488	H1-1-1
3	GS19	Sabre Zoo	.462	1.176	25	.059	1.176	z	25	49.881	57.218	2.858	6.372	12.2...	19.7...1.488	H1-1-1
4	GS11	Sabre Zoo	.315	2.52	28	.061	2.52	y	45	45.245	57.218	2.818	6.075	12.2...	19.7...1.325	H1-2-1
5	GS12	Sabre Zoo	.314	2.52	24	.061	2.52	y	42	45.245	57.218	2.818	6.075	12.2...	19.7...1.342	H1-2-1
6	GS13	Sabre Zoo	.312	2.52	19	.062	2.52	y	34	45.245	57.218	2.818	6.075	12.2...	19.7...1.353	H1-2-1





Company : Tower Engineering Professionals  
 Designer : DMLG  
 Job Number : TEP No. 25633.415540  
 Model Name : CCI BU No. 876340

May 21, 2020  
 8:37 AM  
 Checked By: GHM

**Envelope AISI S100-16: LRFD Cold Formed Steel Code Checks (Continued)**

Member	Shape	Code Check	Loc(ft)	LC	Shear Check	Loc(ft)	Dir	LC	phi*Pn	phi*Tn	phi*Mn	phi*...phi*...	Cb	Eqn	
7	GSi4	Sabre Zoo	.302	1.937	28	.049	1.937	y	42	47.287	57.218	2.818	6.075	12.2...19.7...1.347	H1.2-1
8	GSi5	Sabre Zoo	.299	1.937	22	.049	1.937	y	37	47.287	57.218	2.818	6.075	12.2...19.7...1.355	H1.2-1
9	GSi6	Sabre Zoo	.298	1.937	33	.049	1.937	y	34	47.287	57.218	2.818	6.075	12.2...19.7...1.355	H1.2-1
10	SF1-H2-1	4.5CU3x3	.295	.656	20	.123	.602	y	37	38.231	58.417	2.221	6.949	13.9...19.7...1.638	H1.2-1
11	SF1-H2-3	4.5CU3x3	.284	4.594	22	.136	4.648	y	34	38.231	58.417	2.221	6.949	13.9...19.7...1.712	H1.2-1
12	FF-H2-3	4.5CU3x3	.283	4.594	27	.137	4.648	y	42	38.231	58.417	2.221	6.949	13.9...19.7...1.712	H1.2-1
13	SF2-H2-1	4.5CU3x3	.282	4.594	33	.134	4.648	y	47	38.231	58.417	2.221	6.949	13.9...19.7...1.71	H1.2-1
14	SF2-H2-3	4.5CU3x3	.279	.656	30	.125	.602	y	34	38.231	58.417	2.221	6.949	13.9...19.7...1.663	H1.2-1
15	FF-H2-1	4.5CU3x3	.278	.656	25	.126	.602	y	42	38.231	58.417	2.221	6.949	13.9...19.7...1.663	H1.2-1
16	SF2-H2-2	5CU3x4 C...	.153	1.883	32	.075	.616	y	47	67.217	82.586	2.977	10.826	19.8...24.3...1.1	H1.2-1
17	FF-H2-2	5CU3x4 C...	.152	1.883	27	.077	.616	y	42	67.217	82.586	2.977	10.826	19.8...24.3...1.059	H1.2-1
18	SF1-H2-2	5CU3x4 C...	.152	1.883	22	.075	.616	y	37	67.217	82.586	2.977	10.826	19.8...24.3...1.059	H1.2-1

**APPENDIX D**  
**ADDITIONAL CALCULATIONS**

## Moment Bolt Group - Support Arm

Bolt Size: 0.625 in  
 # Bolts: 4  
 Plate Width: 11.5 in  
 Plate Height: 11.5 in  
 Bolt H Gap: 9.25 in  
 Bolt V Gap: 9.25 in  
 Plate T: 0.5 in  
 Slip Member  $\emptyset$ : N/A in  
 Bolt Grade: A325N  
 $F_{U_{bolt}}$ : 120 ksi  
 r: 6.5407 in  
 J: 171.13 in<sup>4</sup>/in<sup>2</sup>  
 $Bolt_{Area}$ : 0.307 in<sup>2</sup>  
 $Bolt_{Area, Net Tensile}$ : 0.226 in<sup>2</sup>  
 Pretension: 19 kips  
 Slotted Holes: No

Code Checks Per ANSI/TIA-222-H:		
Bolt Capacity =	20.5%	PASS
Plate Capacity =	56.9%	PASS

### Plate Bending

Horizontal Member height: 3 in  
 Horizontal Member width: 6 in

Plate  $F_y$ : 36 ksi

$M_y = 13.2513$  k - in

$Z_y = 0.719$  in<sup>3</sup>

$S_y = 0.479$  in<sup>3</sup>

$M_z = 10.1726$  k - in

$Z_z = 0.719$  in<sup>3</sup>

$S_z = 0.479$  in<sup>3</sup>

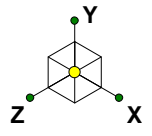
$\emptyset M_{p_y} (Z)$ : 23.288 k - in

$\emptyset M_{p_y} (S)$ : 24.840 k - in

$\emptyset M_{p_z} (Z)$ : 23.288 k - in

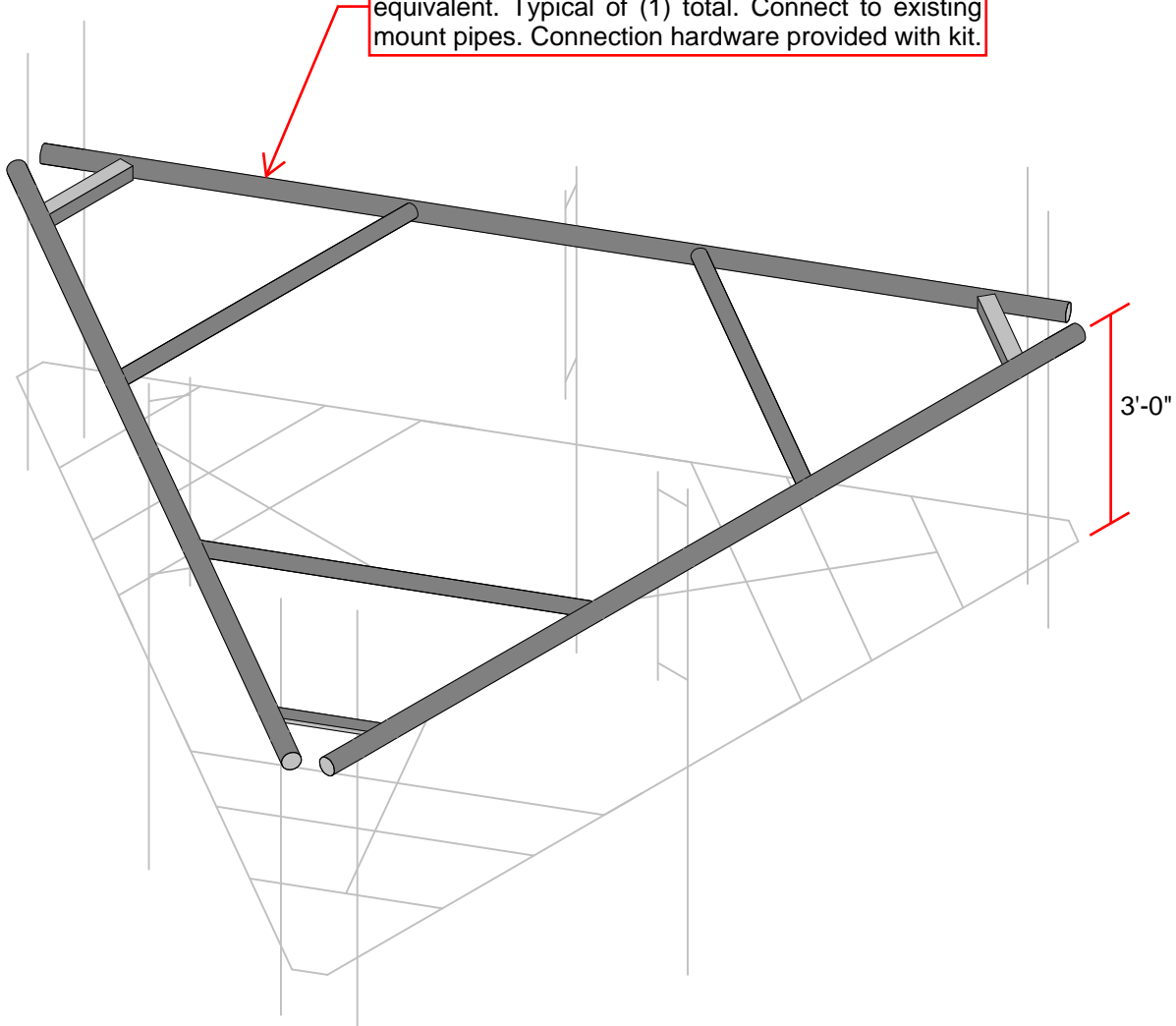
$\emptyset M_{p_z} (S)$ : 24.840 k - in

**APPENDIX E**  
**MOUNT MODIFICATION DESIGN DRAWINGS (MDD)**



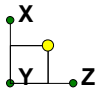
# ISOMETRIC VIEW

Proposed SitePro HRK12-3HD kit, or approved equivalent. Typical of (1) total. Connect to existing mount pipes. Connection hardware provided with kit.



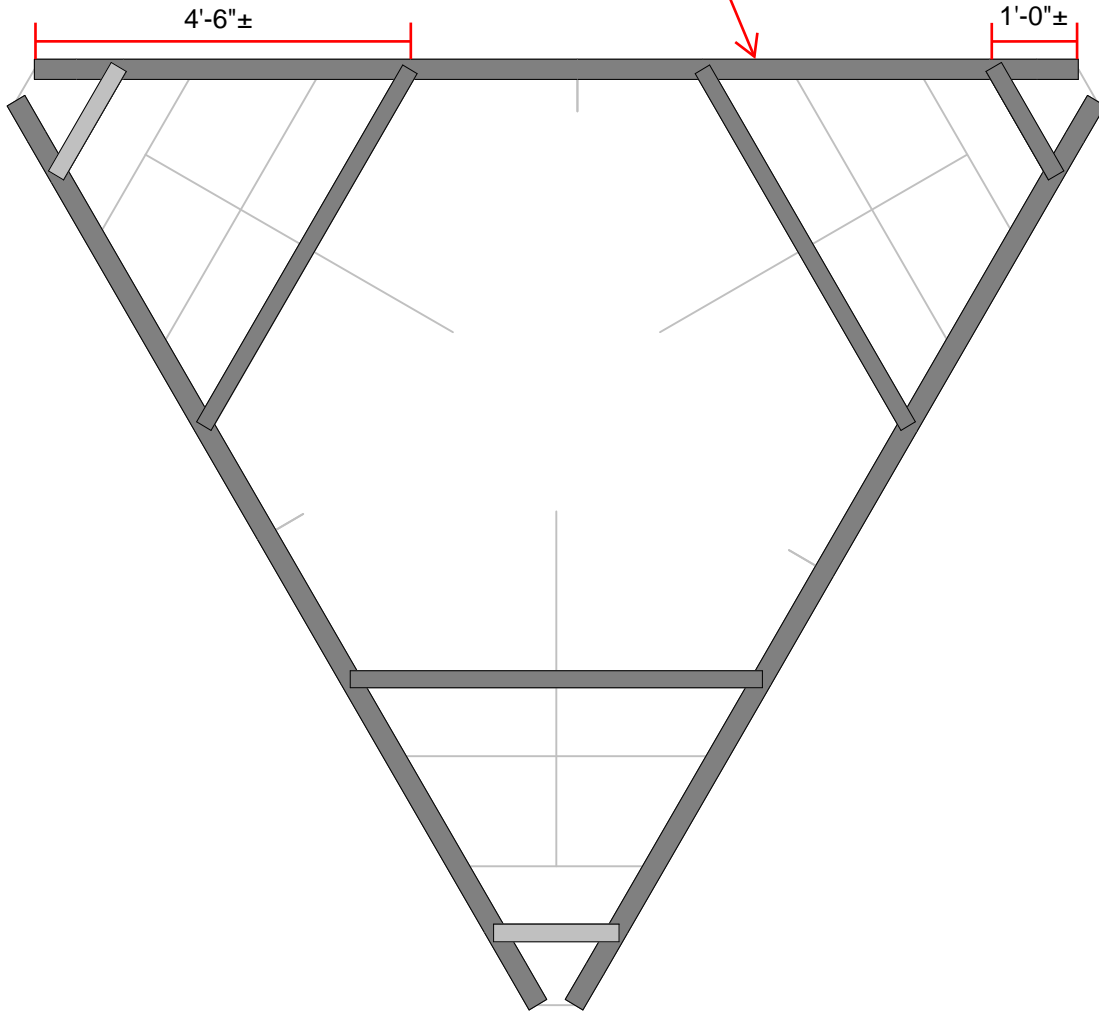
Envelope Only Solution

Tower Engineering Profes...	CCI BU No. 876340	SK - 1
DMLG		May 21, 2020 at 8:47 AM
TEP No. 25633.415540		Mount Rev H.r3d



# PLAN VIEW

Proposed SitePro HRK12-3HD kit, or approved equivalent. Typical of (1) total. Connect to existing mount pipes. Connection hardware provided with kit.



Envelope Only Solution

Tower Engineering Profes...

DMLG

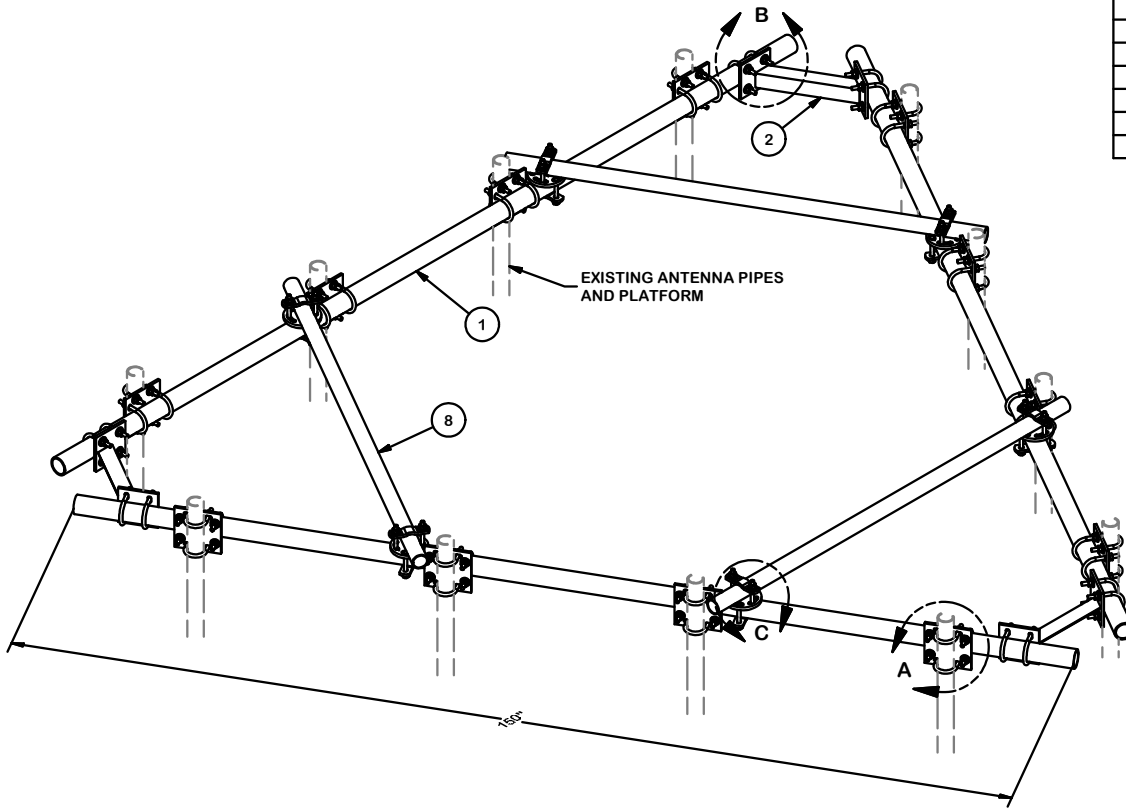
TEP No. 25633.415540

CCI BU No. 876340

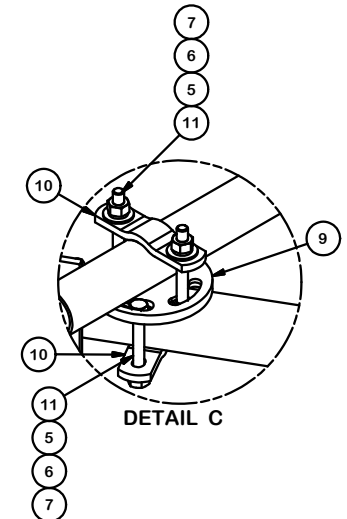
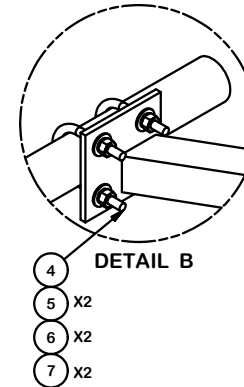
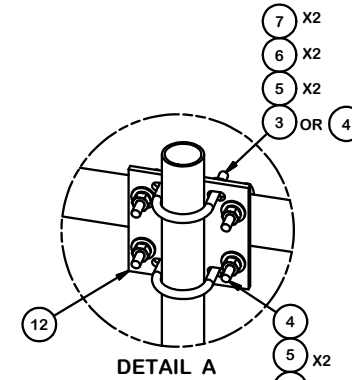
SK - 2

May 21, 2020 at 8:47 AM

Mount Rev H.r3d



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	P30150	2-7/8" O.D. X 150" SCH. 40 PIPE	150 in	76.94	230.81
2	3	X-AHCP	ANGLE HANDRAIL CORNER PLATE		12.92	38.76
3	24	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.73	17.56
4	60	X-UB1300	1/2" X 3" X 5" X 2" U-BOLT (HDG.)		0.73	43.90
5	144	G12FW	1/2" HDG USS FLATWASHER		0.03	4.91
6	144	G12LW	1/2" HDG LOCKWASHER		0.01	2.00
7	144	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	10.31
8	3	P272	2-3/8" X 72" SCH 40 GALVANIZED PIPE	72 in	23.07	69.20
9	6	X-127594	FLAT DISK CLAMP PLATE 4" CENTERS (GALVANIZED)		2.48	14.90
10	12	X-100064	CLAMP (S) (4" V-CLAMP) GALVANIZED		0.91	10.95
11	24	G1204	1/2" x 4" HDG HEX BOLT GR5 FULL THREAD	4 in	0.27	6.48
12	12	SCX2	CROSSOVER PLATE	7 in	4.80	57.56
					<b>TOTAL WT. #</b>	<b>502.34</b>



**TOLERANCE NOTES**

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

**PROPRIETARY NOTE:**  
 THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION  
**HEAY DUTY HANDRAIL KIT FOR 12' PLATFORMS WITH 2-7/8" HANDRAIL PIPES**

**SITE PRO 1**  
 Engineering Support Team:  
 1-888-753-7446  
 Locations:  
 New York, NY  
 Atlanta, GA  
 Los Angeles, CA  
 Plymouth, IN  
 Salem, OR  
 Dallas, TX

CPD NO.	DRAWN BY	ENG. APPROVAL
	CEK 4/6/2015	
CLASS	DRAWING USAGE	CHECKED BY
81	CUSTOMER	BMC 4/7/2015

PART NO.	HRK12-3HD
DWG. NO.	HRK12-3HD

# Exhibit F

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





## RF EMISSIONS COMPLIANCE REPORT

### Crown Castle on behalf of AT&T Mobility, LLC

Crown Castle Site Order ID: 517073  
Crown Castle BU Number: 876340  
Crown Castle Site Name: COE HILL  
AT&T Mobility, LLC Site FA Number: 10035379  
AT&T Mobility, LLC Site ID: CTL01143  
238 Meriden Road  
Middlefield, CT  
6/12/2020

### Report Status:

**AT&T Mobility, LLC is Compliant**



Michael Fischer, P.E.  
Registered Professional Engineer (Electrical)  
Connecticut License Number 33928  
Expires January 31, 2021

Signed 12 June 2020

Prepared By:

Site Safe, LLC

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

My signature on the cover of this document indicates:

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

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

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

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

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

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

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

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

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

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

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

That when applying the uncontrolled environment standards, the predicted Maximum Power Density at two meters above ground level from the proposed AT&T Mobility, LLC operation is

no more than 2.934% of the maximum permissible exposure limits in any accessible area on the ground; and

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

That when applying the uncontrolled environment standards, the cumulative predicted energy density from the proposed operation is no more than 7.237% of the maximum in any accessible area up to two meters above the ground per OET 65; and

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

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

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

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

**Crown Castle  
COE HILL  
Site Summary**

<b>Carrier</b>	<b>Area Maximum Percentage MPE</b>
AT&T Mobility, LLC (Not in Service)	0.000 %
AT&T Mobility, LLC (Proposed)	0.654 %
AT&T Mobility, LLC (Proposed)	0.309 %
AT&T Mobility, LLC (Proposed)	0.642 %
AT&T Mobility, LLC (Proposed)	0.673 %
AT&T Mobility, LLC (Proposed)	0.338 %
AT&T Mobility, LLC (Proposed)	0.318 %
Sprint	0.423 %
Sprint	0.305 %
Sprint	0.243 %
T-Mobile	0.563 %
T-Mobile	0.459 %
T-Mobile	1.723 %
T-Mobile	0.587 %
 <b>Composite Site MPE:</b>	 <b>7.237 %</b>

**AT&T Mobility, LLC (Not in Service)**  
**COE HILL**  
**Carrier Summary**

Frequency: 850 MHz  
Maximum Permissible Exposure (MPE): 566.67  $\mu\text{W}/\text{cm}^2$   
Maximum power density at ground level: 0.00000  $\mu\text{W}/\text{cm}^2$   
Highest percentage of Maximum Permissible Exposure: 0.00000 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE	Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE
Powerwave	P65-15-XLH-RR	132	10	0	0.000000	0.000000	0.000000	0.000000
Powerwave	P65-15-XLH-RR	132	130	0	0.000000	0.000000	0.000000	0.000000
Powerwave	P65-15-XLH-RR	132	260	0	0.000000	0.000000	0.000000	0.000000

**AT&T Mobility, LLC (Proposed)  
COE HILL  
Carrier Summary**

Frequency: 2300 MHz  
 Maximum Permissible Exposure (MPE): 1000  $\mu\text{W}/\text{cm}^2$   
 Maximum power density at ground level: 6.54009  $\mu\text{W}/\text{cm}^2$   
 Highest percentage of Maximum Permissible Exposure: 0.65401 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE	Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE
CCI	OPA65R-BU6D	132	10	2661	6.422033	0.642203	6.518244	0.651824
CCI	OPA65R-BU6D	132	130	2661	6.422033	0.642203	6.518244	0.651824
CCI	OPA65R-BU4D	132	260	2851	2.835565	0.283557	3.647341	0.364734

**AT&T Mobility, LLC (Proposed)  
COE HILL  
Carrier Summary**

Frequency: 763 MHz  
 Maximum Permissible Exposure (MPE): 508.67  $\mu\text{W}/\text{cm}^2$   
 Maximum power density at ground level: 1.56980  $\mu\text{W}/\text{cm}^2$   
 Highest percentage of Maximum Permissible Exposure: 0.30861 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE	Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE
CCI	OPA65R-BU6D	132	10	2450	1.114541	0.21911	1.143761	0.224855
CCI	OPA65R-BU6D	132	130	2450	1.114541	0.21911	1.143761	0.224855
CCI	OPA65R-BU4D	132	260	1775	1.481000	0.291153	1.563680	0.307408

**AT&T Mobility, LLC (Proposed)  
COE HILL  
Carrier Summary**

**Frequency:** 2100 MHz  
**Maximum Permissible Exposure (MPE):** 1000  $\mu\text{W}/\text{cm}^2$   
**Maximum power density at ground level:** 6.42194  $\mu\text{W}/\text{cm}^2$   
**Highest percentage of Maximum Permissible Exposure:** 0.64219 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE	Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE
CCI Antennas	DMP65R-BU6D	132	10	4788	4.839095	0.483910	6.316401	0.631640
CCI Antennas	DMP65R-BU6D	132	130	4788	4.839095	0.483910	6.316401	0.631640
CCI Antennas	DMP65R-BU4D	132	260	4066	3.616835	0.361684	4.837023	0.483702



**AT&T Mobility, LLC (Proposed)  
COE HILL  
Carrier Summary**

**Frequency:** 1900 MHz  
**Maximum Permissible Exposure (MPE):** 1000  $\mu\text{W}/\text{cm}^2$   
**Maximum power density at ground level:** 6.72814  $\mu\text{W}/\text{cm}^2$   
**Highest percentage of Maximum Permissible Exposure:** 0.67281 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE	Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE
CCI Antennas	DMP65R-BU6D	132	10	4075	5.506328	0.550633	6.672968	0.667297
CCI Antennas	DMP65R-BU6D	132	130	4075	5.506328	0.550633	6.672968	0.667297
CCI Antennas	DMP65R-BU4D	132	260	3541	4.295347	0.429535	5.441787	0.544179

**AT&T Mobility, LLC (Proposed)  
COE HILL  
Carrier Summary**

**Frequency:** 850 MHz  
**Maximum Permissible Exposure (MPE):** 566.67  $\mu\text{W}/\text{cm}^2$   
**Maximum power density at ground level:** 1.91458  $\mu\text{W}/\text{cm}^2$   
**Highest percentage of Maximum Permissible Exposure:** 0.33787 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE	Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE
CCI Antennas	DMP65R-BU6D	132	10	2239	1.015830	0.179264	1.845616	0.325697
CCI Antennas	DMP65R-BU6D	132	130	2239	1.015830	0.179264	1.845616	0.325697
CCI Antennas	DMP65R-BU4D	132	260	1695	1.184728	0.209070	1.249512	0.220502

**AT&T Mobility, LLC (Proposed)  
COE HILL  
Carrier Summary**

Frequency: 737 MHz  
 Maximum Permissible Exposure (MPE): 491.33  $\mu\text{W}/\text{cm}^2$   
 Maximum power density at ground level: 1.56407  $\mu\text{W}/\text{cm}^2$   
 Highest percentage of Maximum Permissible Exposure: 0.31833 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE	Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE
CCI Antennas	DMP65R-BU6D	132	10	2400	1.090154	0.221877	1.405305	0.286019
CCI Antennas	DMP65R-BU6D	132	130	2400	1.090154	0.221877	1.405305	0.286019
CCI Antennas	DMP65R-BU4D	132	260	1582	1.179165	0.239993	1.233279	0.251006

**Sprint  
COE HILL  
Carrier Summary**

**Frequency:** 2500 MHz  
**Maximum Permissible Exposure (MPE):** 1000  $\mu\text{W}/\text{cm}^2$   
**Maximum power density at ground level:** 4.23076  $\mu\text{W}/\text{cm}^2$   
**Highest percentage of Maximum Permissible Exposure:** 0.42308 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE	Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE
RFS	APXVTM14-C-I20	121	0	6168	1.232933	0.123293	2.949703	0.294970
RFS	APXVTM14-C-I20	121	120	6168	1.232933	0.123293	2.949703	0.294970
RFS	APXVTM14-C-I20	121	225	6168	1.232933	0.123293	2.949703	0.294970

**Sprint  
COE HILL  
Carrier Summary**

Frequency: 1900 MHz  
 Maximum Permissible Exposure (MPE): 1000  $\mu\text{W}/\text{cm}^2$   
 Maximum power density at ground level: 3.05170  $\mu\text{W}/\text{cm}^2$   
 Highest percentage of Maximum Permissible Exposure: 0.30517 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE	Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE
RFS	APXVSPP18-C-A20	121	0	3804	1.178165	0.117817	2.378878	0.237888
RFS	APXVSPP18-C-A20	121	120	3804	1.178165	0.117817	2.378878	0.237888
RFS	APXVSPP18-C-A20	121	220	3804	1.178165	0.117817	2.378878	0.237888

**Sprint  
COE HILL  
Carrier Summary**

**Frequency:** 850 MHz  
**Maximum Permissible Exposure (MPE):** 566.67  $\mu\text{W}/\text{cm}^2$   
**Maximum power density at ground level:** 1.37458  $\mu\text{W}/\text{cm}^2$   
**Highest percentage of Maximum Permissible Exposure:** 0.24257 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE	Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE
RFS	APXVSPP18-C-A20	121	0	2168	1.075249	0.189750	1.093360	0.192946
RFS	APXVSPP18-C-A20	121	120	2168	1.075249	0.189750	1.093360	0.192946
RFS	APXVSPP18-C-A20	121	220	2168	1.075249	0.189750	1.093360	0.192946

**T-Mobile  
COE HILL  
Carrier Summary**

**Frequency:** 700 MHz  
**Maximum Permissible Exposure (MPE):** 466.67  $\mu\text{W}/\text{cm}^2$   
**Maximum power density at ground level:** 2.62717  $\mu\text{W}/\text{cm}^2$   
**Highest percentage of Maximum Permissible Exposure:** 0.56296 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE	Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE
RFS	APXVAARR24_43-U-NA20	104	0	3484	2.132205	0.456901	2.256447	0.483524
RFS	APXVAARR24_43-U-NA20	104	120	3484	2.132205	0.456901	2.256447	0.483524
RFS	APXVAARR24_43-U-NA20	104	240	3484	2.132205	0.456901	2.256447	0.483524

**T-Mobile  
COE HILL  
Carrier Summary**

**Frequency:** 600 MHz  
**Maximum Permissible Exposure (MPE):** 400  $\mu\text{W}/\text{cm}^2$   
**Maximum power density at ground level:** 1.83548  $\mu\text{W}/\text{cm}^2$   
**Highest percentage of Maximum Permissible Exposure:** 0.45887 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE	Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE
RFS	APXVAARR24_43-U-NA20	104	0	2501	1.660756	0.415189	1.660756	0.415189
RFS	APXVAARR24_43-U-NA20	104	120	2501	1.660756	0.415189	1.660756	0.415189
RFS	APXVAARR24_43-U-NA20	104	240	2501	1.660756	0.415189	1.660756	0.415189



## T-Mobile COE HILL Carrier Summary

**Frequency:** 2100 MHz  
**Maximum Permissible Exposure (MPE):** 1000  $\mu\text{W}/\text{cm}^2$   
**Maximum power density at ground level:** 17.23434  $\mu\text{W}/\text{cm}^2$   
**Highest percentage of Maximum Permissible Exposure:** 1.72343 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE	Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE
Ericsson	AIR 21 B2A B4P	104	0	5497	2.556269	0.255627	2.922768	0.292277
Ericsson	AIR 32 B2A B66AA	104	0	6168	12.354785	1.235478	12.354785	1.235479
Ericsson	AIR 21 B2A B4P	104	120	5497	2.556269	0.255627	2.922768	0.292277
Ericsson	AIR 32 B2A B66AA	104	120	6168	12.354785	1.235478	12.354785	1.235479
Ericsson	AIR 21 B2A B4P	104	240	5497	2.556269	0.255627	2.922768	0.292277
Ericsson	AIR 32 B2A B66AA	104	240	6168	12.354785	1.235478	12.354785	1.235479

**T-Mobile  
COE HILL  
Carrier Summary**

**Frequency:** 1900 MHz  
**Maximum Permissible Exposure (MPE):** 1000  $\mu\text{W}/\text{cm}^2$   
**Maximum power density at ground level:** 5.87458  $\mu\text{W}/\text{cm}^2$   
**Highest percentage of Maximum Permissible Exposure:** 0.58746 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE	Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE
Ericsson	AIR 21 B2A B4P	104	0	1374	0.639070	0.063907	0.730695	0.073069
Ericsson	AIR 32 B2A B66AA	104	0	6168	2.868180	0.286818	3.279398	0.327940
Ericsson	AIR 21 B2A B4P	104	120	1374	0.639070	0.063907	0.730695	0.073069
Ericsson	AIR 32 B2A B66AA	104	120	6168	2.868180	0.286818	3.279398	0.327940
Ericsson	AIR 21 B2A B4P	104	240	1374	0.639070	0.063907	0.730695	0.073069
Ericsson	AIR 32 B2A B66AA	104	240	6168	2.868180	0.286818	3.279398	0.327940