



**NSS** **NORTHEAST**  
SITE SOLUTIONS  
*Turnkey Wireless Development*

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

June 25, 2021

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

RE: Exempt Modification Application  
83 Reeds Gap Road, North Branford CT 06472  
Latitude: 41.403428  
Longitude: -72.744261  
Site#: 806386\_Crown\_VZW

Dear Ms. Bachman:

Verizon Wireless is requesting to file an exempt modification for an existing tower located at 83 Reeds Gap Road, North Branford CT 06472. Verizon Wireless currently maintains twelve (12) antennas at the 90-foot level of the existing 92-foot tower. The property is owned by David Tamulevich, and tower is owned by Crown Castle. Verizon now intends to add three (3) antenna. The new antennas would be installed at the 90-foot level of the tower. This modification includes B2, B5 hardware that is both 4G (LTE), and 5G capable.

**Verizon Planned Modifications:**

Remove: NONE

Remove and Replace: NONE

Install New:

(3) Sub6 MT6407-77A Antenna

Existing to Remain:

(4) DB844G65ZAXY Antenna

(6) JAHH-65B-R3B Antenna

(2) LPA-80063 Antenna

(3) Samsung B2/B66A -BRO49 – RFV01U-D1A RRU

(3) Samsung B5/B13 -BRO4C – RFV01U-D2A RRU

(3) Diplexers

(2) Raycap OBV Box

(12) Coax Lines

(2) 1-5/8" Hybrid



The facility was approved by the CT Siting Council on November 22, 1995. Please see attached

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies § 16- SOj-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-SOj-73, a copy of this letter is being sent to The Honorable Michael J. Doody, Mayor for the Town of North Branford, Tom Hogarty, Zoning Enforcement Officer, Crown Castle as the tower owner, and property owner.

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

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

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

Sincerely,

Denise Sabo  
Mobile: 203-435-3640  
Fax: 413-521-0558  
Office: 4 Angela's Way, Burlington CT 06013  
Email: [denise@northeastsitesolutions.com](mailto:denise@northeastsitesolutions.com)



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Attachments

cc: The Honorable Michael J. Doody (via email only to [executivesecretary@townofnorthbranfordct.com](mailto:executivesecretary@townofnorthbranfordct.com))  
Town of North Branford – Mayor  
909 Foxon Road, North Branford CT 06471

Tom Hogarty, Zoning Enforcement Officer (via email only to [zeo@townofnorthbranfordct.com](mailto:zeo@townofnorthbranfordct.com))  
Town of North Branford – Zoning Enforcement Officer  
909 Foxon Road, North Branford CT 06471

David Tamilevich – Property Owner  
83 Reeds Gap Road, Northford CT 06472

Crown Castle, Tower Owner (via email to [Sarah.Snell@crowncastle.com](mailto:Sarah.Snell@crowncastle.com))

# Exhibit A

## **Original Facility Approval**



Bell Atlantic NYNEX Mobile  
20 Alexander Drive  
P.O. Box 5029  
Wallingford, CT 06492  
203-269-8858

Jennifer Young Gaudet  
Manager - Regulatory

ORIGINAL

November 22, 1995

HAND DELIVERED

RECEIVED

NOV 22 1995

CONNECTICUT  
SITING COUNCIL

Mr. Joel M. Rinebold  
Executive Director  
Connecticut Siting Council  
136 Main Street, Suite 401  
New Britain, Connecticut 06051

Re: Bell Atlantic NYNEX Mobile - Antenna Upgrades

Dear Mr. Rinebold:

Bell Atlantic NYNEX Mobile ("BANM" or the "Company") is undertaking a system performance improvement plan which involves upgrading the antenna configurations at most of its cell sites. This letter, together with attached Schedule 1 which provides site-by-site detail, serves as BANM's notice of intent, pursuant to R.C.S.A. § 16-50j-73, of construction which constitutes exempt modifications pursuant to R.C.S.A. § 16-50j-72(b).

In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter is being sent to the chief elected officials of the municipalities in which the affected cell sites are located. Those individuals are listed on Schedule 2, appended hereto. A sample of the letter sent to those officials is also enclosed.

The changes include some conversions from omnidirectional to sectorized configurations, some changes in antenna model and some additions of directional antennas. As detailed below and on Schedule 1 appended hereto, the changes meet the criteria for exempt modifications.

First, the height of BANM's installations will not be increased at any of the sites; the changes may result in a decrease in height. On most Company-owned monopoles, the dual platform configuration formerly used will be modified by adding a rail assembly to each platform and removing the vertical mounting pipes between them. The panel antennas will be mounted on the top rail assembly. These antennas will replace the top-mounted omnidirectional antennas as well as the transmit/receive antennas which have been mounted between the platforms. These changes will reduce the overall height of the structures (including appurtenances). Similar changes made to lattice towers, while not utilizing a platform mount, will also result

Mr. Joel M. Rinebold  
November 22, 1995  
Page 2

in reduced overall height at sites where top-mounted omnidirectional antennas have been used.


Second, the planned changes will not extend the site boundaries. The antenna upgrade does not involve other changes to the sites.

Third, the planned changes will not increase the noise levels at the existing facilities by six decibels or more. The change in antenna model and any additional antennas will not result in any change in noise levels.

Fourth, operation of the new antennas will not increase the total radio frequency electromagnetic radiation power density at any of the sites to a level at or above the ANSI standard. Included in Schedule 1 are the results of updated power density calculations for BANM's installations. In general, the changes will result in a decrease in power density predictions since sectorization restricts RF channel transmissions to less than a full 360° pattern and reduces effective radiated power to approximately one third of omnidirectional values. It should be noted, however, that the percentage of the ANSI standard may reflect a higher number than that shown in previous filings for sites which predated the 1992 revision to the ANSI standard. Because the effect, if any, of the change in antenna configuration is to decrease the overall power density, no updated calculations have been performed for other uses at shared sites.

Based on the foregoing and the enclosed, the Company respectfully submits that the proposed changes to the antenna configurations at the sites listed on Schedule 1 constitute exempt modifications under R.C.S.A. Section 16-50j-72(b).

Respectfully yours,



Jennifer Young Gaudet  
Manager - Regulatory

Enclosures

cc: Municipal officials listed on Schedule 2

SITE NAME	ADDRESS	TOWN	CSC REF	RAD CTR	# OF ANTS	TYPE/MODEL of ANTENNAS	POWER		% OF STANDARD
							DENSITY	DENSITY	
BOLTON	130 VERNON RD	BOLTON	EXMOD	120	3	ALP-9212	0.0474	0.0474	8.13
BRANFORD	1801 NORTH MAIN ST	BRANFORD	DN 122	107	15	ALP-9212	0.0596	0.0596	10.22
BRISTOL	32 VALLEY ST	BRISTOL	EXMOD	88	9	ALP-9212	0.0882	0.0882	15.13
BRUCE GOLF COURSE	1323 KING ST	GREENWICH	EXMOD	98/103	6	ALP-9212	0.0711	0.0711	12.19
CLINTON	48 COW HILL RD	CLINTON	DN 148	206	12	ALP-9212	0.0161	0.0161	2.76
DANBURY	24 HOSPITAL AVE	DANBURY	DN 79	204	12	ALP-9212	0.0164	0.0164	2.81
DARIEN	LEDGE RD	DARIEN	DN 155	100	14	ALP-9212	0.0682	0.0682	11.7
DURHAM	101R OLD BLUE HILLS RD	DURHAM	DN 161	100	12	ALP-9212	0.0682	0.0682	11.7
EAST BRIDGEPORT	939 BARNUM AVE	BRIDGEPORT	EXMOD	152	12	ALP-9212	0.0296	0.0296	5.08
EAST FAIRFIELD	40 BLACKROCK TPKE	FAIRFIELD	PET 304	120	12	ALP-9212	0.0474	0.0474	8.13
EAST GRANBY	NEWGATE RD	EAST GRANBY	EXMOD	80	8	ALP-9212	0.1067	0.1067	18.3
EAST LYME	93 ROXBURY RD	EAST LYME	DN 116	158	10	ALP-9212	0.0274	0.0274	4.7
EAST NORWALK	FILBERT ST	NORWALK	PET 305	120	15	ALP-9212	0.0474	0.0474	8.13
ENFIELD	OLIVER RD	ENFIELD	DN 139	150	13	ALP-9212	0.0303	0.0303	5.2
FAIRFIELD	281 WOODHOUSE RD	FAIRFIELD	DN 86	160	15	ALP-9212	0.0267	0.0267	4.58
FARMINGTON	RATTLESNAKE MTN	FARMINGTON	EXMOD	239	8	ALP-9212	0.012	0.012	2.06
GLASTONBURY	BIRCH MOUNTAIN RD	GLASTONBURY	DN 58	155	9	ALP-9212	0.0284	0.0284	4.87
GREENWICH	5 PERRYRIDGE RD	GREENWICH	DN 73	106	12	CTY-10510	0.0608	0.0608	10.43
GROTON	68 GROTON LONG POINT RD	GROTON	EXMOD	100	12	ALP-9212	0.0682	0.0682	11.7
GUILFORD	131 MANOR RD	GUILFORD	DN 56	150	12	ALP-9212	0.0303	0.0303	5.2
HADDAM	TURKEY HILL RD	HADDAM	DN 58	180	12	ALP-9212	0.0211	0.0211	3.62
HAMDEN	1055 WINTERGREEN AVE	HAMDEN	DN 56A	173	12	ALP-9212	0.0228	0.0228	3.91
HARTFORD	1 STATE ST	HARTFORD	DN 58	296	9	ALP-9212	0.0078	0.0078	1.34
HARTFORD N.W.	439-455 HOMESTEAD AVE	HARTFORD	DN 126	140	12	ALP-9212	0.0348	0.0348	5.98
KILLINGWORTH	TOWER HILL RD (RT 80)	KILLINGWORTH	DN 69	160	12	ALP-9212	0.0267	0.0267	4.58
MERIDEN	WEST PEAK	MERIDEN	DN 93	78	8	ALP-9209	0.1122	0.1122	19.25
MIDDLETOWN	213 COURT ST	MIDDLETOWN	DN 126	180	9	ALP-9212	0.0211	0.0211	3.62
MILFORD	423 ORONOQUE RD	MILFORD	DN 56	100	9	ALP-9212	0.0682	0.0682	11.7
NAUGATUCK	45 PEACH ORCHARD RD	NAUGATUCK	DN 56B	195	12	ALP-9212	0.018	0.018	3.09
NEW BRITAIN	155 MYRTLE ST	NEW BRITAIN	PET 283	93	12	ALP-9212	0.079	0.079	13.55
NEW HAVEN	54 MEADOW ST	NEW HAVEN	DN 140	146	15	ALP-9212	0.032	0.032	5.49
NEW HAVEN EAST	153 FORBES AVE	NEW HAVEN	PET 329	72	12	CTY-10510	0.1317	0.1317	22.59
NEW LONDON	59 WESTWOOD AVE	NEW LONDON	EXMOD	80	2	DB-809	0.1067	0.1067	18.3
NEWTOWN	WASHINGTON AVE (RT 34)	NEWTOWN	DN 89	182	9	ALP-9212	0.0206	0.0206	3.54
NORTH BRANFORD	83 REEDS GAP RD	NORTH BRANFORD	DN 56	87	15	ALP-9212	0.0902	0.0902	15.47
NORTH BRIDGEPORT	1330 CHOPSEY HILL RD	BRIDGEPORT	EXMOD	132	12	ALP-9212	0.0392	0.0392	6.12

SITE NAME	ADDRESS	TOWN	CSC REF	RAD CTR	# OF ANTS	TYPE/MODEL of ANTENNAS	POWER DENSITY	% OF STANDARD
NORTH HAVEN	117 WASHINGTON AVE	NORTH HAVEN	DN 117	122	15	ALP-9212	0.0459	7.87
NORTH NORWALK	WEST ROCKS RD	NORWALK	PET 284	83	15	ALP-9212	0.0991	17
NORWALK	50 ROCKLAND RD	NORWALK	DN 73	171	12	ALP-9212	0.0234	4.01
OLD SAYBROOK EAST	2 CLARK ST	OLD SAYBROOK	PET 327	90	9	ALP-9212	0.0843	14.46
PORTLAND	OLD MARLBOROUGH TPKE	PORTLAND	DN 58	160	10	ALP-9212	0.0267	4.58
REDDING	80 LONETOWN RD	REDDING	PET 311	95	2	PD-10009	0.0757	12.98
RIDGEFIELD	76 EAST RIDGE AVE	RIDGEFIELD	DN 113	140	9	ALP-9212	0.0348	5.97
RIVERSIDE	1111 EAST PUTNAM AVE	GREENWICH	DN 120	47	12	ALP-9212	0.3091	53.02
ROCKY HILL	FRANCE ST	ROCKY HILL	DN 58	140	12	ALP-9212	0.0348	5.97
SOMERS	126 PIONEER HTS RD	SOMERS	DN 58	155	12	ALP-9212	0.0284	4.87
SOUTHBURY	KETTLETOWN RD	SOUTHBURY	DN 88	230	12	ALP-9212	0.0129	2.21
STAMFORD	300 TRESSER BLVD	STAMFORD	DN 73	206	10	ALP-9209	0.0161	2.76
TALCOTT	TALCOTT MOUNTAIN	BLOOMFIELD	DN 107	55	5	ALP-11008		
TRUMBULL	SCIENCE CENTER				3	ALP-6008	0.2657	38.72
VERNON	BOOTH HILL RD/ VIDEO LN	TRUMBULL	DN 77	230	3	ALP-11008		
WEST HARTFORD	SOUTH ST	VERNON	DN 58A	120	15	ALP-9212	0.0129	2.21
WEST HAVEN	570 NEW PARK AVE	WEST HARTFORD	DN 131	150	12	ALP-9212	0.0474	8.13
WETHERSFIELD	24 ROCKDALE RD	WEST HAVEN	DN 56	169	14	ALP-9212	0.0303	5.2
WILLIMANTIC	100 GREAT MEADOW RD	WETHERSFIELD	DN 139	115	12	ALP-9212	0.0239	4.1
WILLINGTON	349 MOUNTAIN RD	WILLIMANTIC	EXMOD	193	4	PD-10017	0.0516	8.86
WILTON	56 COS GROVE RD	WILLINGTON	DN 58	138	10	ALP-11011	0.0183	3.14
WINDSOR	128 OLD MATHER RD	WILTON	DN 94	178	12	ALP-9212	0.0359	6.15
WINDSOR SOUTH	482 PIGEON HILL RD	WINDSOR	DN 58	155	15	ALP-9212	0.0216	3.7
WOLCOTT	599 MATIANUCK AVE	WINDSOR	DN 137	100	10	ALP-9212	0.0284	4.87
WOODSTOCK	347 EAST ST	WOLCOTT	DN 56	167	12	ALP-9212	0.0682	11.7
	WEST QUASSETT RD	WOODSTOCK	EXMOD	134	2	PD-1110R	0.0245	4.2
							0.038	6.52

# Exhibit B

## Property Card

# 83 REEDS GAP RD

**Location** 83 REEDS GAP RD

**Mblu** 70/B 6/ / /

**Acct#** 002385

**Owner** TAMULEVICH DAVID

**Assessment** \$269,400

**Appraisal** \$384,800

**PID** 4398

**Building Count** 1

## Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2015	\$186,100	\$198,700	\$384,800

Assessment			
Valuation Year	Improvements	Land	Total
2015	\$130,300	\$139,100	\$269,400

## Owner of Record

**Owner** TAMULEVICH DAVID

**Sale Price** \$120,000

**Co-Owner**

**Certificate**

**Address** 83 REEDS GAP RD

**Book & Page** 465/1113

NORTHFORD, CT 06472-1122

**Sale Date** 01/02/2014

**Instrument** 08

## Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
TAMULEVICH DAVID	\$120,000		465/1113	08	01/02/2014
LISKA MARY TRUSTEE	\$0		451/ 511		06/14/2012
LISKA MARY	\$0		212/ 677		09/20/1991

## Building Information

### Building 1 : Section 1

**Year Built:** 1983

**Living Area:** 1,666

**Replacement Cost:** \$140,202

**Building Percent** 86

**Good:**

**Replacement Cost**

**Less Depreciation:** \$120,600

### Building Attributes

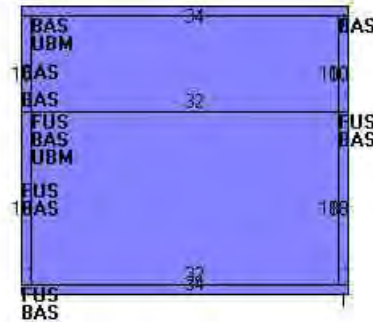
Field	Description
Style	Colonial
Model	Residential
Grade:	Average
Stories:	2 Stories
Occupancy	1
Exterior Wall 1	Cedar or Redwd
Exterior Wall 2	
Roof Structure:	Salt Box
Roof Cover	Asphalt Shingl
Interior Wall 1	Drywall/Sheet
Interior Wall 2	Knotty Pine Pa
Interior Flr 1	Pine/Soft Wood
Interior Flr 2	Carpet
Heat Fuel	Electric
Heat Type:	Geothermal
AC Type:	Heat Pump
Total Bedrooms:	2 Bedrooms
Total Bthrms:	2
Total Half Baths:	0
Total Xtra Fixtrs:	
Total Rooms:	4 Rooms
Bath Style:	Average
Kitchen Style:	Average

### Building Photo



(<http://images.vgsi.com/photos/NorthBranfordCTPhotos//00\00>)

### Building Layout



(<http://images.vgsi.com/photos/NorthBranfordCTPhotos//Sketch>)

Building Sub-Areas (sq ft)			Legend	
Code	Description	Gross Area	Living Area	
BAS	First Floor	1,020	1,020	
FUS	Full Upper Story	646	646	
UBM	Basement, Unfinished	896	0	
		2,562	1,666	

### Extra Features

Extra Features				Legend
Code	Description	Size	Value	Bldg #
FPL1	FIREPLACE 1STY	1 UNITS	\$3,400	1
FPO	EXTRA FPL OPEN	1 UNITS	\$1,300	1

### Land

#### Land Use

#### Land Line Valuation

**Use Code** 1010  
**Description** SINGLE FAM MDL-01  
**Zone** R80  
**Neighborhood**  
**Alt Land Appr Category** No

**Size (Acres)** 4.69  
**Frontage** 0  
**Depth** 0  
**Assessed Value** \$139,100  
**Appraised Value** \$198,700

### Outbuildings

Outbuildings						Legend
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
BRN3	BARN 1 STY W/LOFT			1200 S.F.	\$29,300	1
ELCB	ELECTRONIC COMM BLDG			200 S.F.	\$31,500	1

### Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2018	\$186,100	\$198,700	\$384,800
2017	\$186,100	\$198,700	\$384,800
2016	\$186,100	\$198,700	\$384,800

Assessment			
Valuation Year	Improvements	Land	Total
2018	\$130,300	\$139,100	\$269,400
2017	\$130,300	\$139,100	\$269,400
2016	\$130,300	\$139,100	\$269,400

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Imagery ©2020 Maxar Technologies, U.S. Geological Survey, USDA Farm Service Agency, Map data ©2020 200 ft



41°24'12.5"N 72°44'38.9"W

41.403464, -72.744139



Directions



Save



Nearby



Send to your phone



Share



Northford, CT 06472



C734+98 Northford, Connecticut

# Exhibit C

## **Construction Drawings**

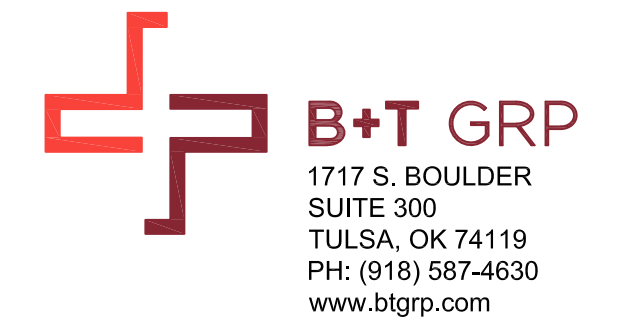




**VERIZON SITE NUMBER:** 468991  
**VERIZON SITE NAME:** NHV 106 943628  
**SITE TYPE:** SELF-SUPPORT TOWER  
**TOWER HEIGHT:** 92'-0"

**BUSINESS UNIT #:** 806386  
**SITE ADDRESS:** 83 REEDS GAP ROAD  
 NORTH BRANFORD, CT 06472  
**COUNTY:** NEW HAVEN  
**JURISDICTION:** CONNECTICUT  
**SITING COUNCIL**

**VERIZON 5G L-SUB6 - CARRIER ADD**



**VERIZON SITE NUMBER:**  
468991  
  
**BU #:** 806386  
**NHV 106 943628**  
  
 83 REEDS GAP ROAD  
 NORTH BRANFORD, CT 06472  
  
 EXISTING 92'-0"  
 SELF-SUPPORT TOWER

**ISSUED FOR:**

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	4/15/21	LHT	CONSTRUCTION	MTJ

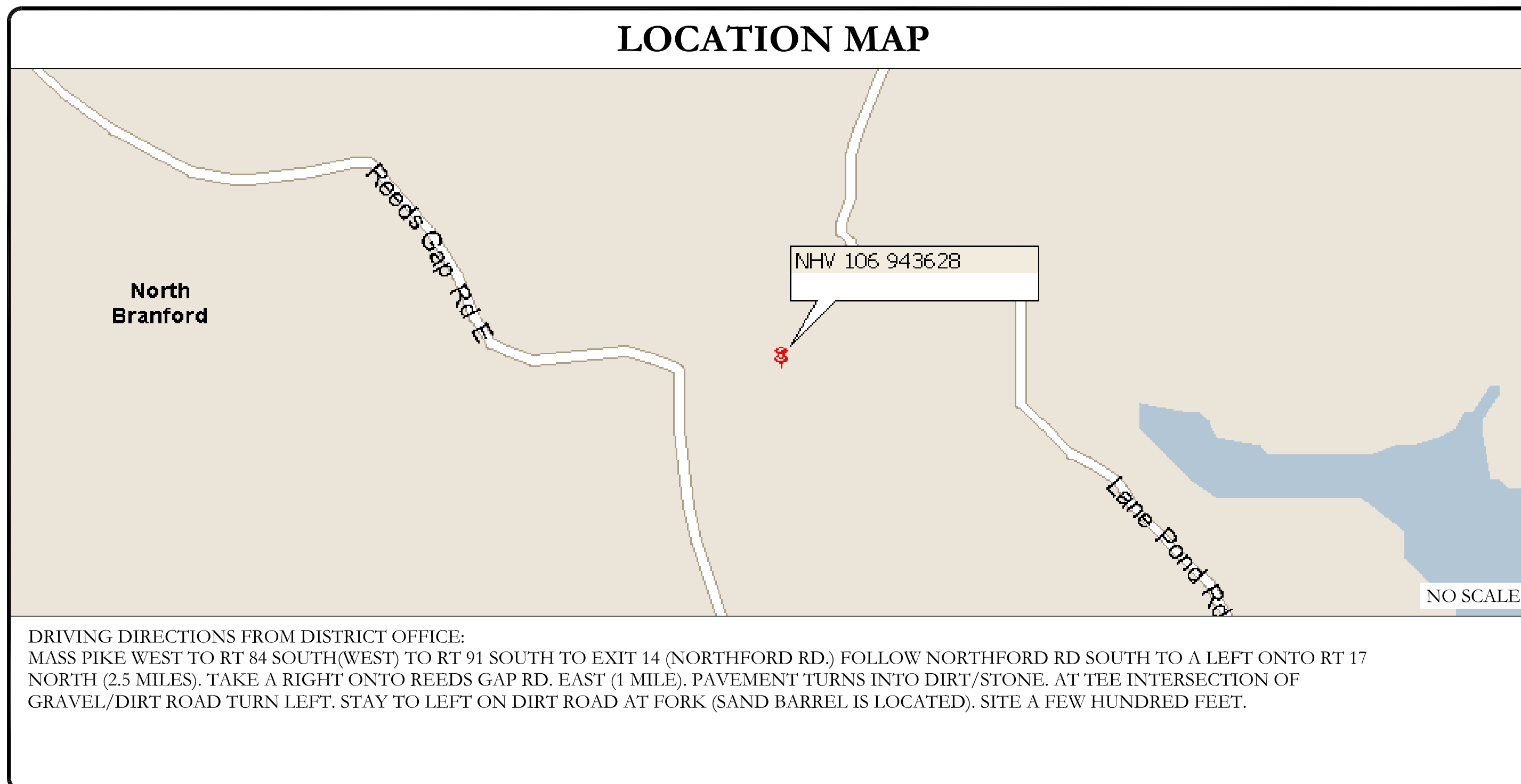
**SITE INFORMATION**

CROWN CASTLE USA INC. SITE NAME:	NHV 106 943628
SITE ADDRESS:	83 REEDS GAP ROAD NORTH BRANFORD, CT 06472
COUNTY:	NEW HAVEN
MAP/PARCEL #:	4398
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41.403464°
LONGITUDE:	-72.744139°
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	626
CURRENT ZONING:	R80
JURISDICTION:	CONNECTICUT SITING COUNCIL
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	TAMULEVICH DAVID 83 REEDS GAP RD NORTHFORD, CT 06472-1122
TOWER OWNER:	CROWN CASTLE 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	VERIZON WIRELESS 180 WASHINGTON VALLEY ROAD BEDMINSTER, NJ 07921
ELECTRIC PROVIDER:	NOT PROVIDED
TELCO PROVIDER:	NOT PROVIDED

**DRAWING INDEX**

SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1	SITE PLAN
C-2	TOWER ELEVATION & ANTENNA PLANS
C-3	EQUIPMENT SCHEDULES
C-4	EQUIPMENT DETAILS
C-5	EQUIPMENT DETAILS
C-6	PLUMBING DIAGRAM
G-1	GROUNDING DETAILS
G-2	GROUNDING DETAILS

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 22X34. 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.



**APPROVALS**

SIGNATURE	DATE
_____	_____
_____	_____
_____	_____
_____	_____

**APPLICABLE CODES/REFERENCE DOCUMENTS**

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

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

**REFERENCE DOCUMENTS:**

STRUCTURAL ANALYSIS:	BY OTHERS
DATED:	
MOUNT ANALYSIS:	MASUR CONSULTING CONNECTICUT
DATED:	3/30/21
RFDS REVISION:	N/A
DATED:	3/17/21
ORDER ID:	552625
REVISION:	0

**PROJECT DESCRIPTION**

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

TOWER SCOPE OF WORK:

- INSTALL (3) ANTENNAS

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

**PROJECT TEAM**

A&E FIRM:	B+T GROUP 1717 S BOULDER AVE, SUITE 300 TULSA, OK 74119 RICHARD MCCLURE (918) 587-4630
CROWN CASTLE USA INC. DISTRICT CONTACTS:	3 CORPORATE PARK DRIVE, SUITE 101 CLIFTON PARK, NY 12065
VERIZON CONTACT:	TIMOTHY PARKS TIMOTHY.PARKS@VERIZONWIRELESS.COM

**CONTRACTOR PMI REQUIREMENTS**

PMI ACCESSED AT <https://pmi.vxwsmart.com>

SMART TOOL VENDOR PROJECT NUMBER

VzW LOCATION CODE (PSLC)

\*\*\* PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT

**MOUNT MODIFICATION REQUIRED** N

**VzW APPROVED SMART KIT VENDORS**

REFER TO MOUNT MODIFICATION DRAWINGS PAGE FOR VzW SMART KIT APPROVED VENDORS

**ISSUED FOR:**

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

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

<b>SHEET NUMBER:</b> T-1	<b>REVISION:</b> 0
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1:39816.003.01\_NHV\_106\_943628\_Verizon\_Amendment\_NE\_NY\_02\_18.2021.dwg - SheetT-1 - User: m\_jones - Apr 15, 2021 - 10:47am



CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

- 1. NOTICE TO PROCEED-- NO WORK SHALL COMMENCE PRIOR TO CROWN CASTLE USA INC. WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER...
2. "LOOK UP" - CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT: THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION...
3. PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED...
4. ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR...
5. ALL SITE WORK TO COMPLY WITH QAS--STD--10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE..."
6. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY CROWN CASTLE USA INC...
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES...
8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS...
9. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION...
10. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK...
11. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS, LATEST APPROVED REVISION...
12. CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK...
13. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK...
14. THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS...
15. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS...
16. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION...
17. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS...
18. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL...
19. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER...
20. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY...
21. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS...
22. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

GREENFIELD GROUNDING NOTES:

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

GENERAL NOTES:

- 1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY: CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION CARRIER: VERIZON TOWER OWNER: CROWN CASTLE USA INC.
2. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES...
3. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION...
4. NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS...
5. SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS...
6. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS...
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES...
8. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS...
9. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE...
10. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND CROWN CASTLE...
11. CONTRACTOR IS TO PERFORM A SITE INVESTIGATION AND IS TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND GROUNDING PLAN DRAWINGS...
12. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES...
13. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY...
14. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

- 1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE...
2. UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf...
3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (fc) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE...
4. CONCRETE EXPOSED TO FREEZE--THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES...
5. ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615, ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185...
6. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS: CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH...
7. A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

ELECTRICAL INSTALLATION NOTES:

- 1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES...
2. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED...
3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC...
4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC...
5. EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE...
6. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS...
7. PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS...
8. ALL THE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES...
9. ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED...
10. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED...
11. POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI-CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED...
12. POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED...
13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75° C (90° C IF AVAILABLE)...
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEC AND NEC...
15. ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS...
16. ELECTRICAL METALLIC TUBING (EMT) OR METAL-CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS...
17. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT...
18. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED...
19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED...
20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEC AND THE NEC...
21. WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREMOULD SPECMATE WIREWAY)...
22. SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL)...
23. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS...
24. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL...
25. METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING...
26. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS...
27. THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR CROWN CASTLE USA INC. BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS...
28. THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS...
29. INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "VERIZON"...
30. ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

Table with 3 columns: SYSTEM, CONDUCTOR, COLOR. It lists color codes for various conductor types and voltages, including 120/240V, 120/208V, 277/480V, and DC VOLTAGE.

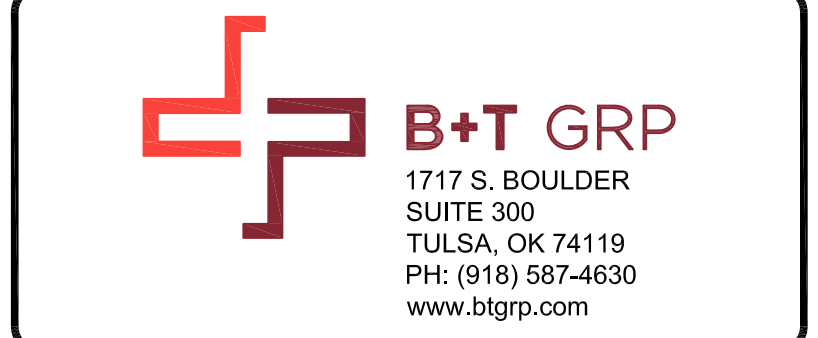
APWA UNIFORM COLOR CODE:

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

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

ABBREVIATIONS:

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



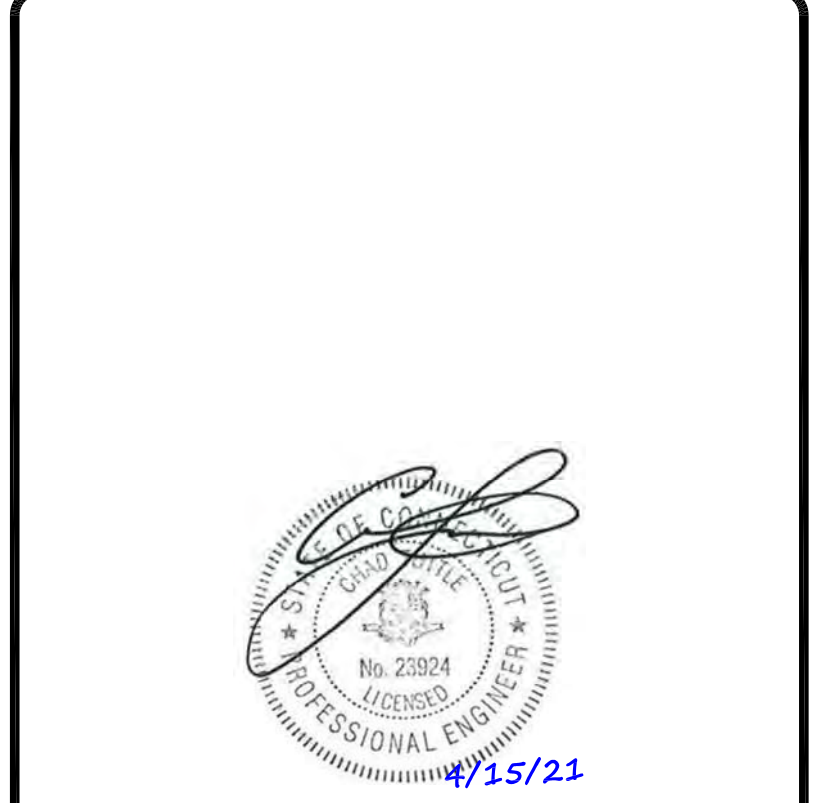
VERIZON SITE NUMBER: 468991

BU #: 806386 NHV 106 943628

83 REEDS GAP ROAD NORTH BRANFORD, CT 06472

EXISTING 92'-0" SELF-SUPPORT TOWER

Table with 5 columns: REV, DATE, DRWN, DESCRIPTION, DES./QA. It contains one row of data: 0, 4/15/21, LHT, CONSTRUCTION, MTJ.



B&T ENGINEERING, INC. PEC.0001564 Expires 2/10/22 IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHEET NUMBER: T-2 REVISION: 0



**verizon**<sup>v</sup>  
 180 WASHINGTON VALLEY ROAD  
 BEDMINSTER, NJ 07921

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

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

VERIZON SITE NUMBER:  
**468991**

BU #: **806386**  
**NHV 106 943628**

83 REEDS GAP ROAD  
 NORTH BRANFORD, CT 06472

EXISTING 92'-0"  
 SELF-SUPPORT TOWER

**ISSUED FOR:**

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	4/15/21	LHT	CONSTRUCTION	MTJ



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

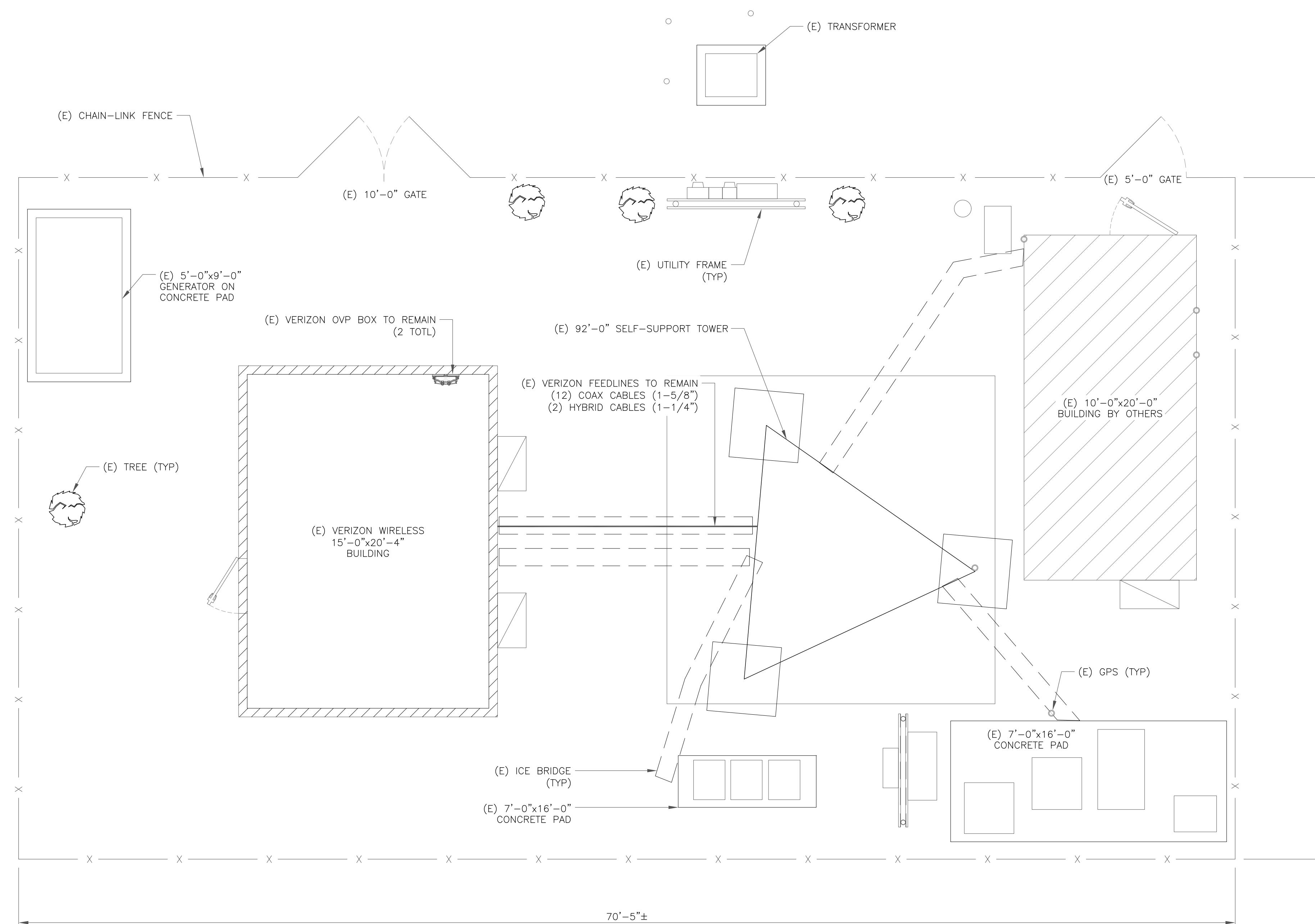
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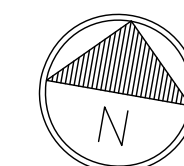
**C-1**

REVISION:

**0**



**1** SITE PLAN  
 SCALE: 1/4"=1'-0" (FULL SIZE)  
 1/8"=1'-0" (11x17)



VERIZON SITE NUMBER:  
**468991**

BU #: **806386**  
**NHV 106 943628**

83 REEDS GAP ROAD  
 NORTH BRANFORD, CT 06472

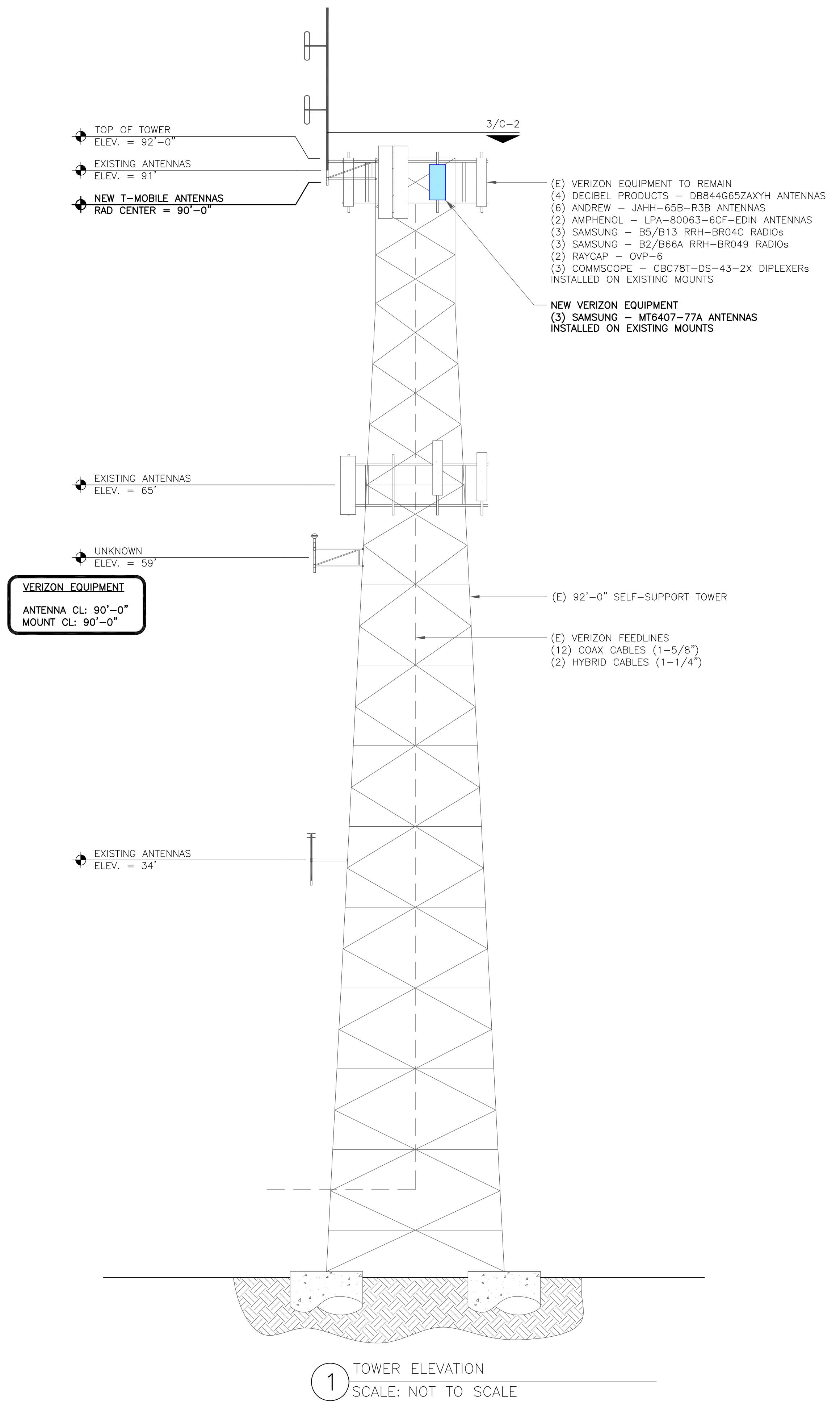
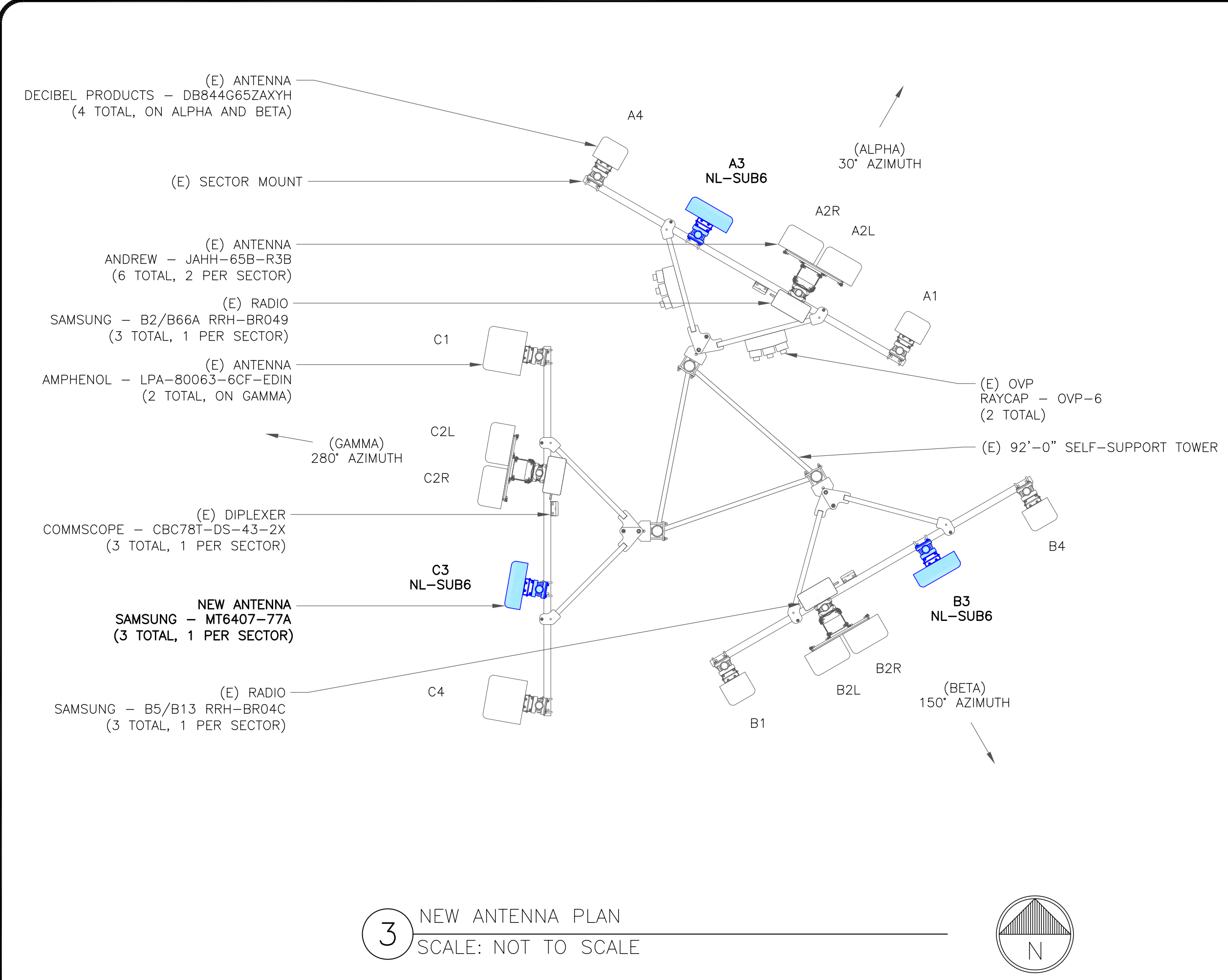
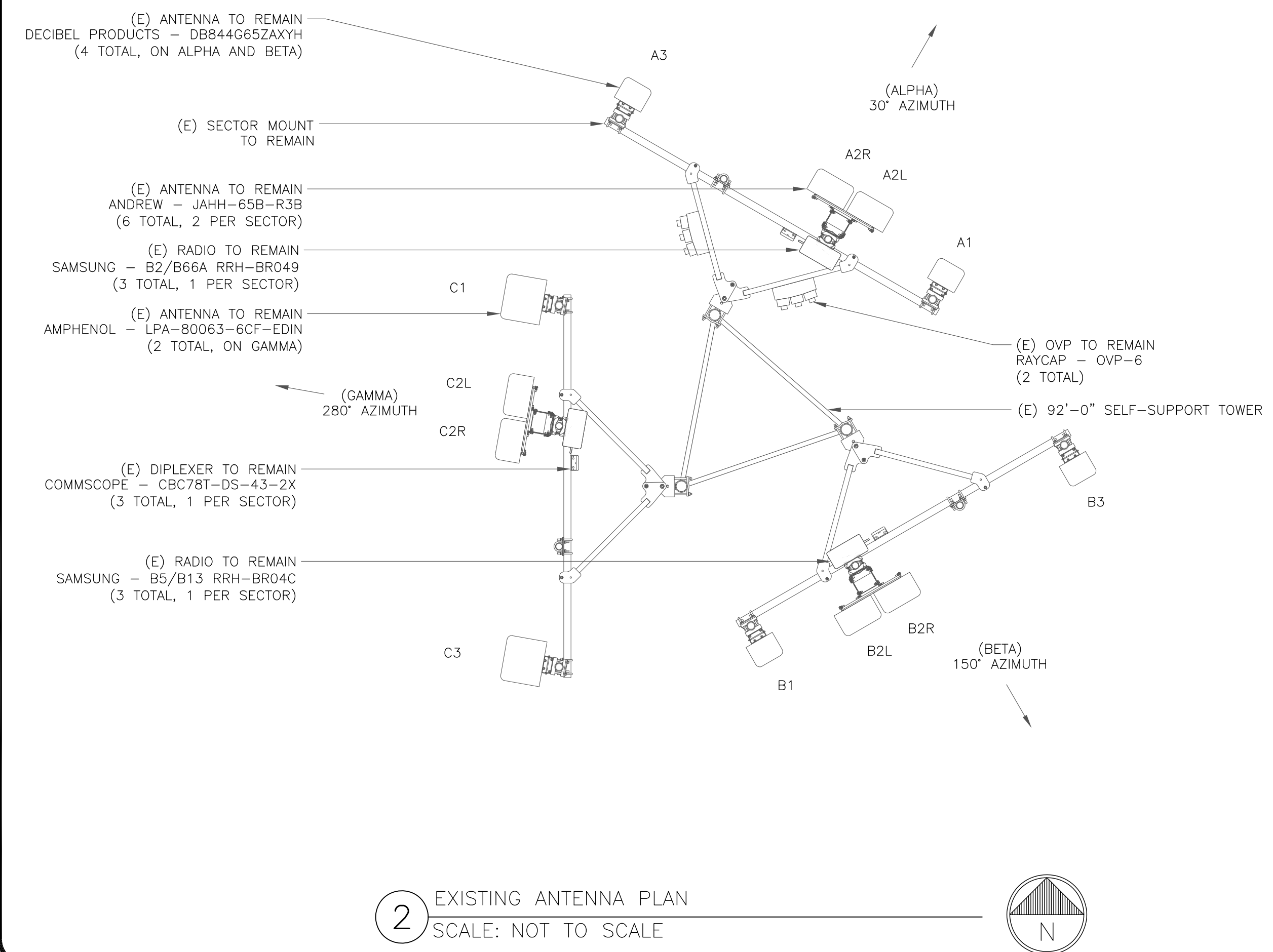
EXISTING 92'-0"  
 SELF-SUPPORT TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	4/15/21	LHT	CONSTRUCTION	MTJ

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VERIZON SITE NUMBER:  
**468991**

BU #: **806386**  
**NHV 106 943628**

83 REEDS GAP ROAD  
 NORTH BRANFORD, CT 06472

EXISTING 92'-0"  
 SELF-SUPPORT TOWER

**ISSUED FOR:**

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	4/15/21	LHT	CONSTRUCTION	MTJ



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

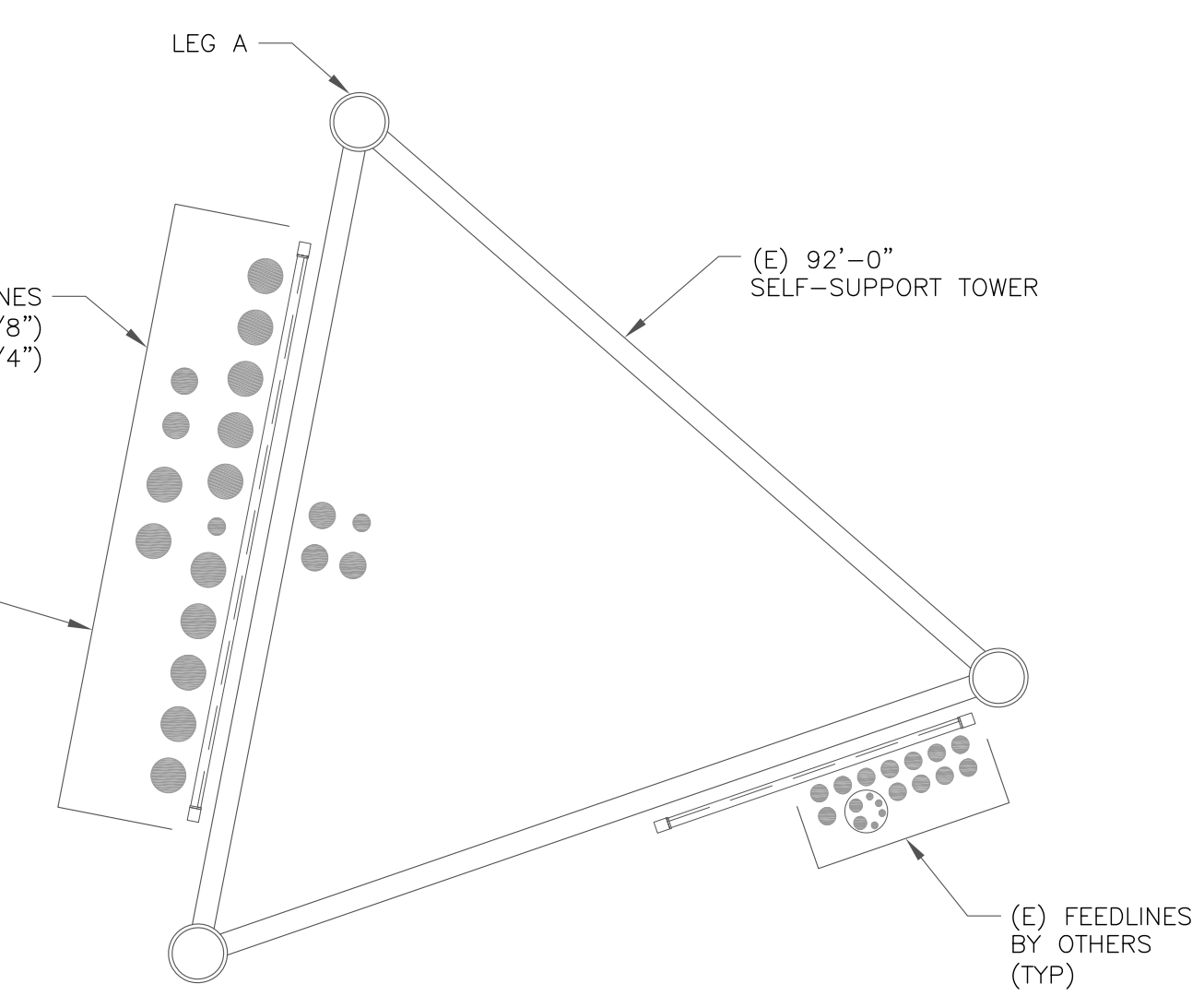
ANTENNA/RRH SCHEDULE

SECTOR	STATUS	ANTENNA MANUFACTURER	ANTENNA MODEL	ANTENNA CENTERLINE	AZIMUTH	MECHANICAL DOWNTILTS	ELECTRICAL DOWNTILTS	TOWER EQUIPMENT MANUFACTURER	TOWER EQUIPMENT QTY/MODEL
A1	EXISTING	DECIBEL PRODUCTS	DB844G65ZAXYH	90'-0"	30°	0'	0'	-	-
A2L A2R	EXISTING	ANDREW	JAHH-65B-R3B	90'-0"	30°	0'	2'/4'/2'/2'	RAYCAP SAMSUNG SAMSUNG	OVP-6 B5/B13 RRH-BR04C B2/B66A RRH-BR049
A3	NEW	SAMSUNG	MT6407-77A	90'-0"	30°	0'	6'	-	-
A4	EXISTING	DECIBEL PRODUCTS	DB844G65ZAXYH	90'-0"	30°	0'	0'	-	-
B1	EXISTING	DECIBEL PRODUCTS	DB844G65ZAXYH	90'-0"	150°	0'	0'	-	-
B2L B2R	EXISTING	ANDREW	JAHH-65B-R3B	90'-0"	150°	0'	2'/4'/2'/2'	SAMSUNG SAMSUNG	B5/B13 RRH-BR04C B2/B66A RRH-BR049
B3	NEW	SAMSUNG	MT6407-77A	90'-0"	150°	0'	6'	-	-
B4	EXISTING	DECIBEL PRODUCTS	DB844G65ZAXYH	90'-0"	150°	0'	0'	-	-
C1	EXISTING	AMPHENOL	LPA-80063-6CF-EDIN	90'-0"	280°	2'	6'	-	-
C2L C2R	EXISTING	ANDREW	JAHH-65B-R3B	90'-0"	280°	0'	5'/8'/2'/2'	SAMSUNG SAMSUNG	B5/B13 RRH-BR04C B2/B66A RRH-BR049
C3	NEW	SAMSUNG	MT6407-77A	90'-0"	280°	0'	6'	-	-
C4	EXISTING	AMPHENOL	LPA-80063-6CF-EDIN	90'-0"	280°	2'	6'	-	-

1 VERIZON TOWER EQUIPMENT SCHEDULE  
 SCALE: NOT TO SCALE

CABLE SCHEDULE

STATUS	CABLE TYPE	SIZE	LENGTH	QTY
EXISTING	COAX	1-5/8"	140'-0"±	12
EXISTING	HYBRID	1-1/4"	140'-0"±	2
TOTAL CABLE QTY:				14



2 BASE LEVEL DETAIL  
 SCALE: NOT TO SCALE

1:39816.003.01\_NHV\_106\_943628\_Verizon\_Amendment\_NE\_NY\_02.18.2021.dwg - User: m.jones - Apr 15, 2021 - 10:49am

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**CROWN CASTLE**  
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**B+T GRP**  
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 SUITE 300  
 TULSA, OK 74119  
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VERIZON SITE NUMBER:  
**468991**

BU #: **806386**  
**NHV 106 943628**

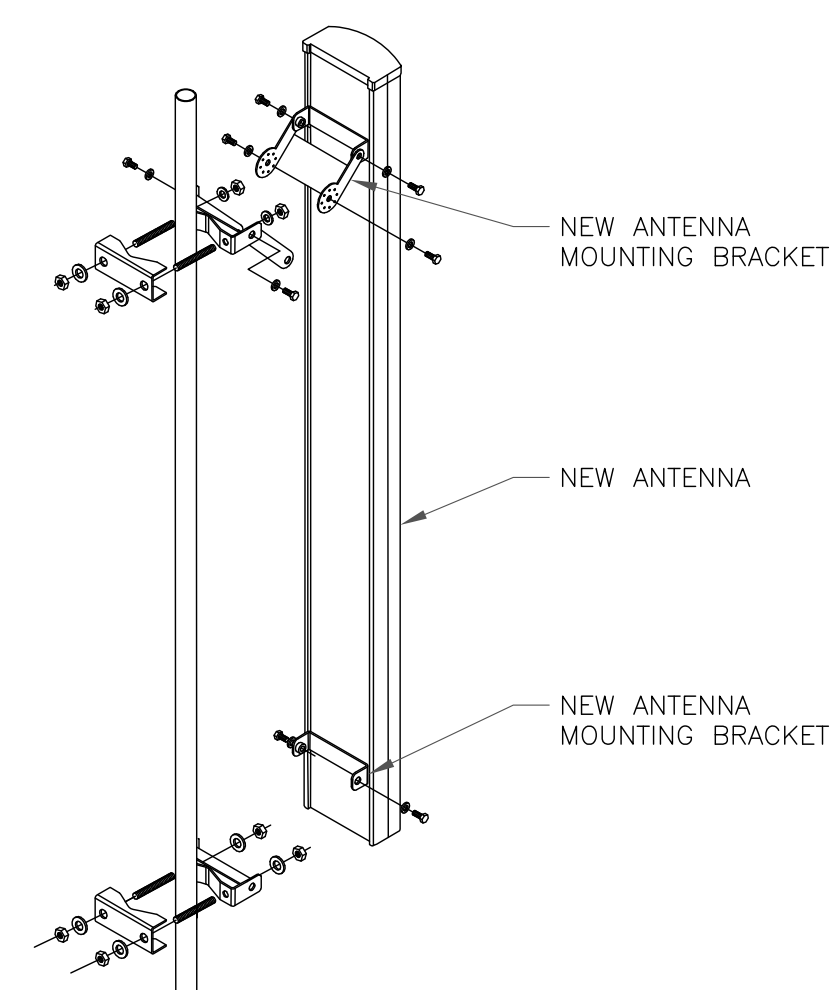
83 REEDS GAP ROAD  
 NORTH BRANFORD, CT 06472

EXISTING 92'-0"  
 SELF-SUPPORT TOWER

**ISSUED FOR:**

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	4/15/21	LHT	CONSTRUCTION	MTJ

**INSTALLER NOTES:**  
 ALL PIPES BRACKETS AND  
 MISCELLANEOUS HARDWARE TO BE  
 GALVANIZED UNLESS NOTED OTHERWISE.



**4** ANTENNA MOUNTING DETAIL  
 SCALE: NOT TO SCALE

**1** NOT USED  
 SCALE: NOT TO SCALE

**2** NOT USED  
 SCALE: NOT TO SCALE

**3** NOT USED  
 SCALE: NOT TO SCALE



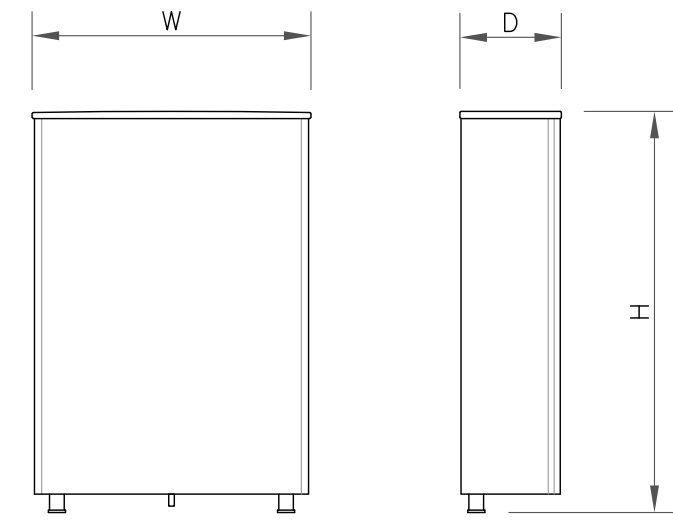
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**ANTENNA SPECS**

MANUFACTURER	SAMSUNG
MODEL #	MT6407-77A
WIDTH	16.06"
DEPTH	5.51"
HEIGHT	35.06"
WEIGHT	81.57 LBS

① ANTENNA SPECS  
SCALE: NOT TO SCALE

② NOT USED  
SCALE: NOT TO SCALE

③ NOT USED  
SCALE: NOT TO SCALE

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④ NOT USED  
SCALE: NOT TO SCALE

⑤ NOT USED  
SCALE: NOT TO SCALE

⑥ NOT USED  
SCALE: NOT TO SCALE

SHEET NUMBER: **C-5** REVISION: **0**

VERIZON SITE NUMBER:  
**468991**

BU #: **806386**  
**NHV 106 943628**

83 REEDS GAP ROAD  
NORTH BRANFORD, CT 06472

EXISTING 92'-0"  
SELF-SUPPORT TOWER

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REV	DATE	DRWN	DESCRIPTION	DES./QA
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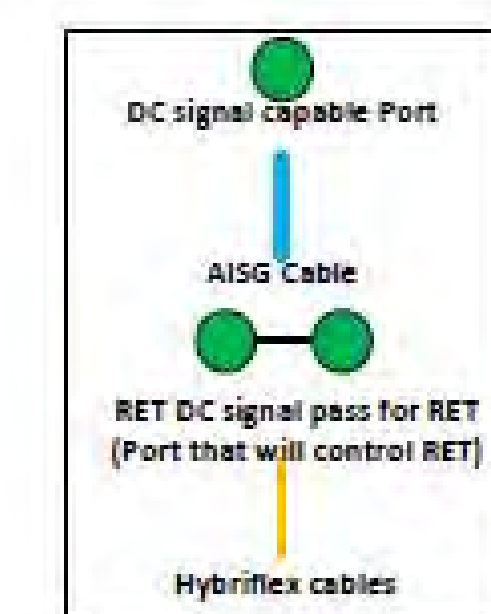
REVISION:

**0**



BSAMNT-SBS-2-2

- Port 1 & 2 are for low band (698-896 MHz).
- Port 3,4,5, & 6 are for high band (1695-2360 MHz).
- Smart Bias Tee (SBT) is through port 1 & 3 for low band and port 1 for high band.
- AISG cable is only needed when drawn in the diagrams below, if it is not drawn then SBT is enough to control all RET motors.
- Not all SBT ports are needed to control RET, only green port connection to green port will control RET.



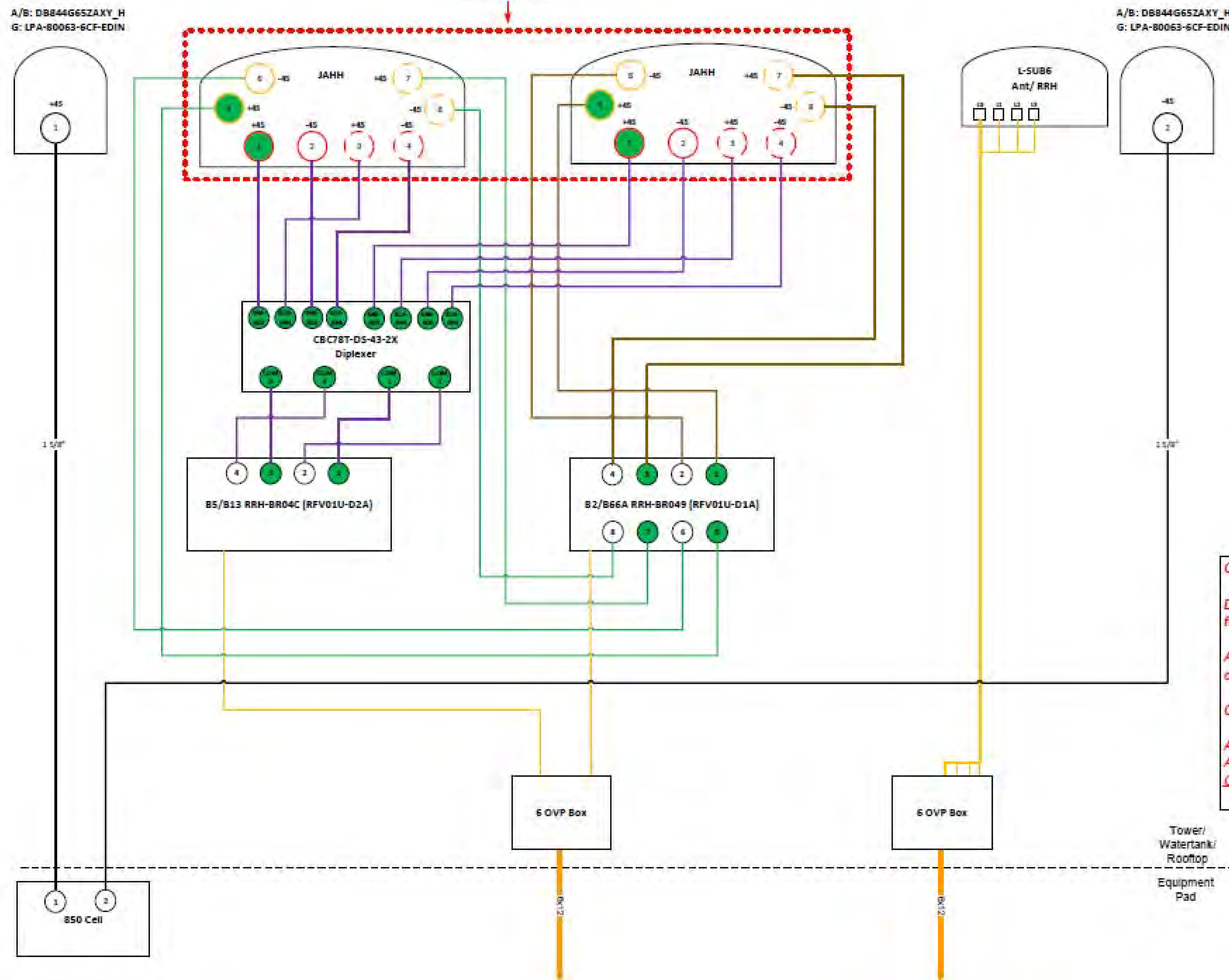
**Comments:**

Diagram shows antenna port configuration as viewed from below antennas.

Antenna positions are indicated as viewed from *IN FRONT* of antennas.

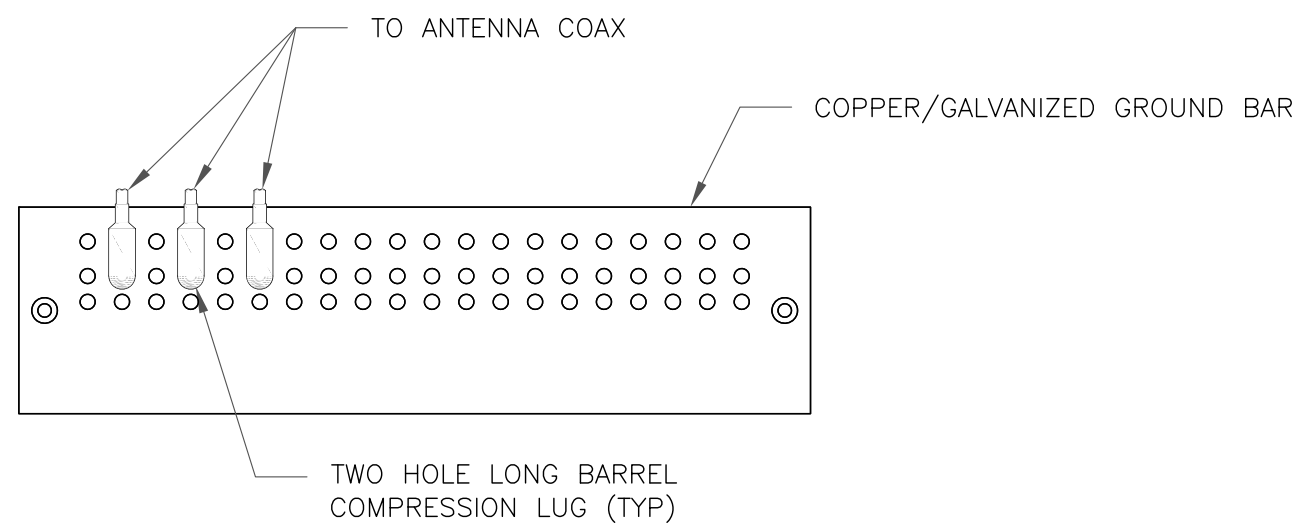
Cap and weatherproof unused antenna ports.

All plumbing diagram colors are irrelevant except for AISG & Hybriflex cable. (For the coax colors follow Coax Colors guide above)



**1** PLUMBING DIAGRAM  
SCALE: NOT TO SCALE

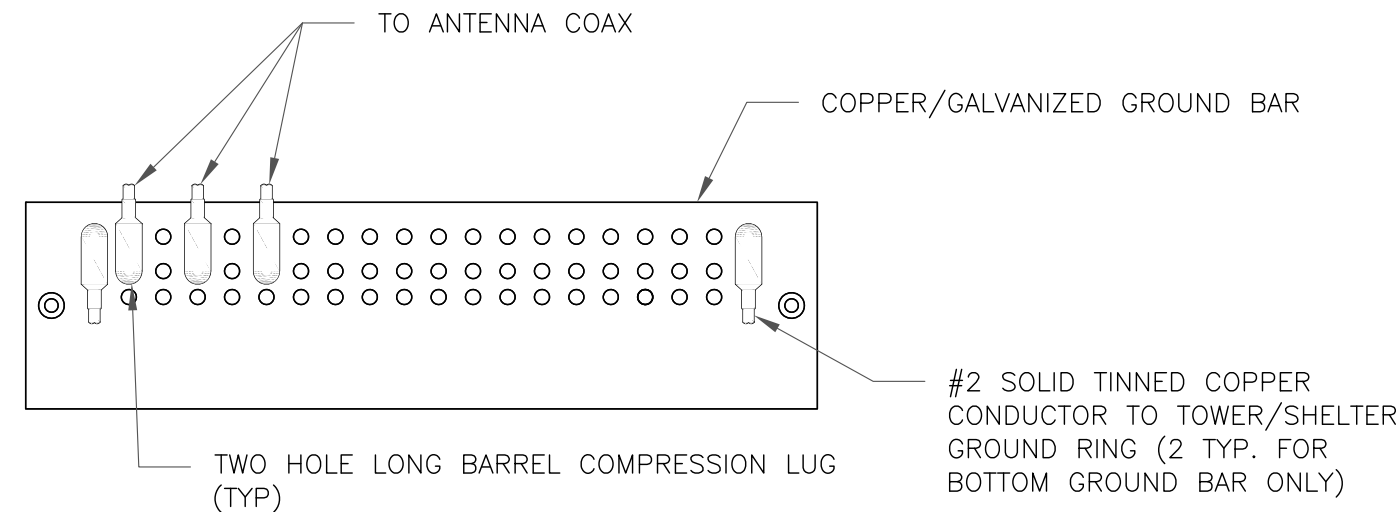




NOTES:

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.

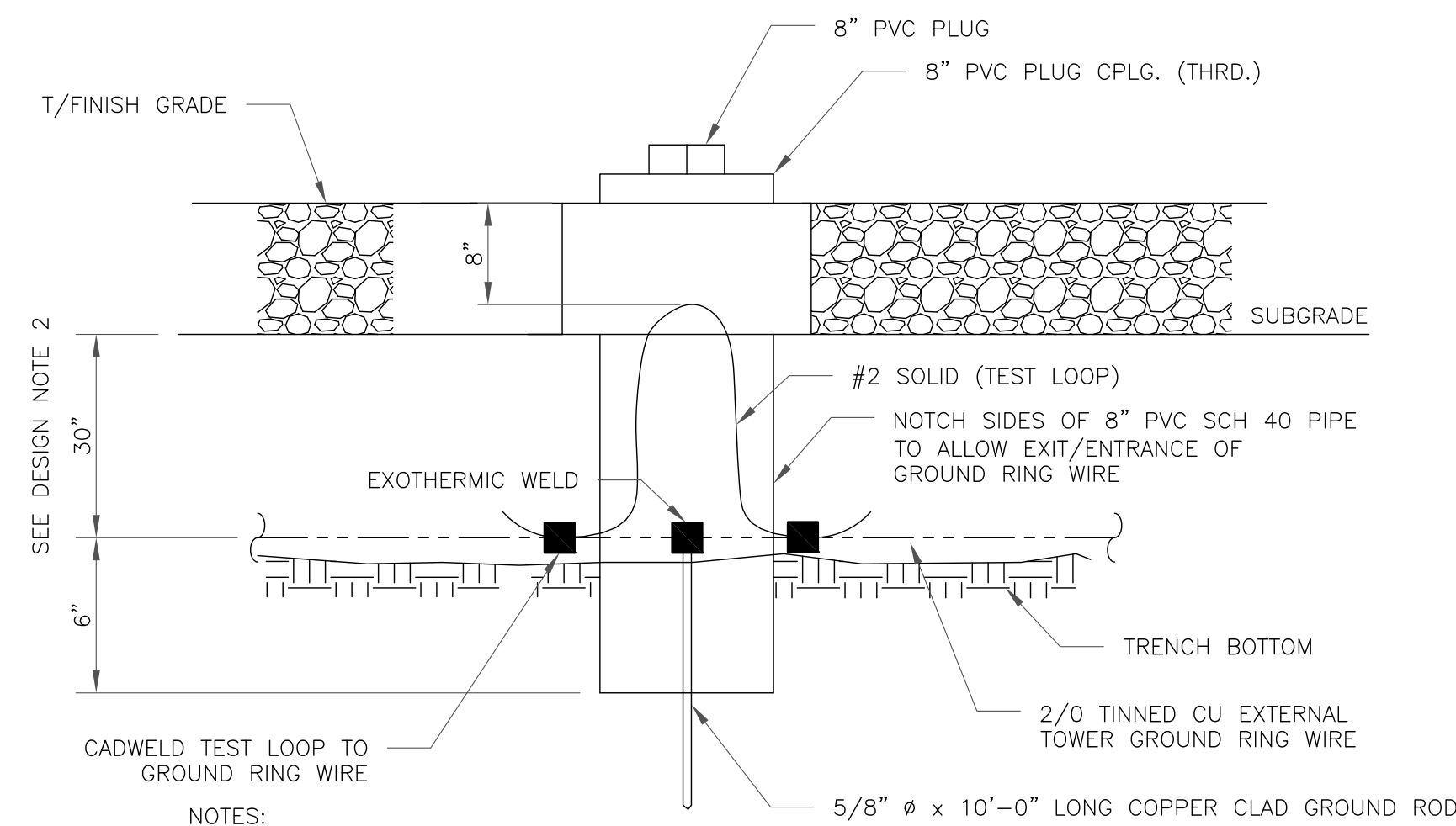
1 ANTENNA SECTOR GROUND BAR DETAIL  
SCALE: NOT TO SCALE



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.

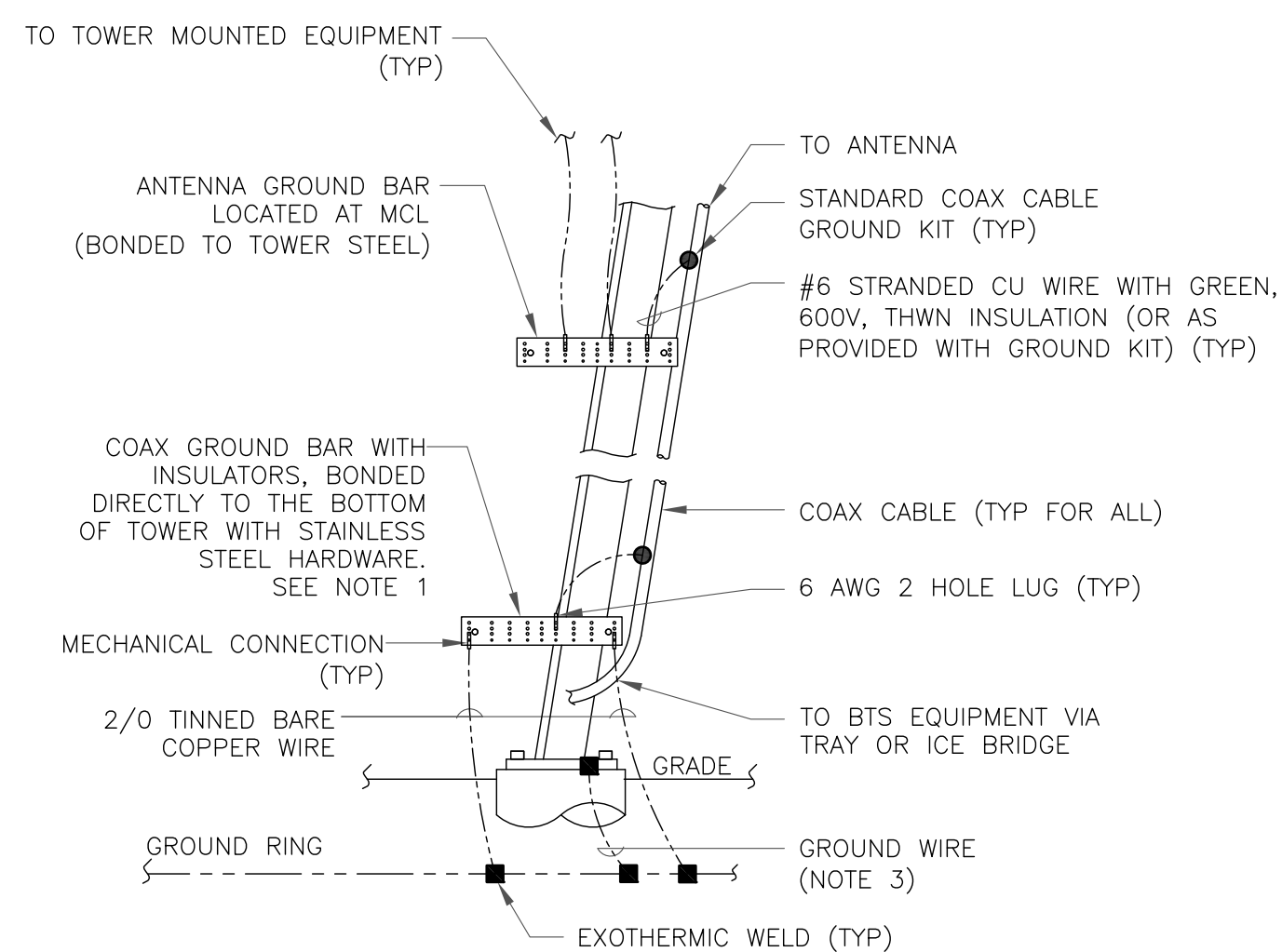
2 TOWER/SHELTER GROUND BAR DETAIL  
SCALE: NOT TO SCALE



NOTES:

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

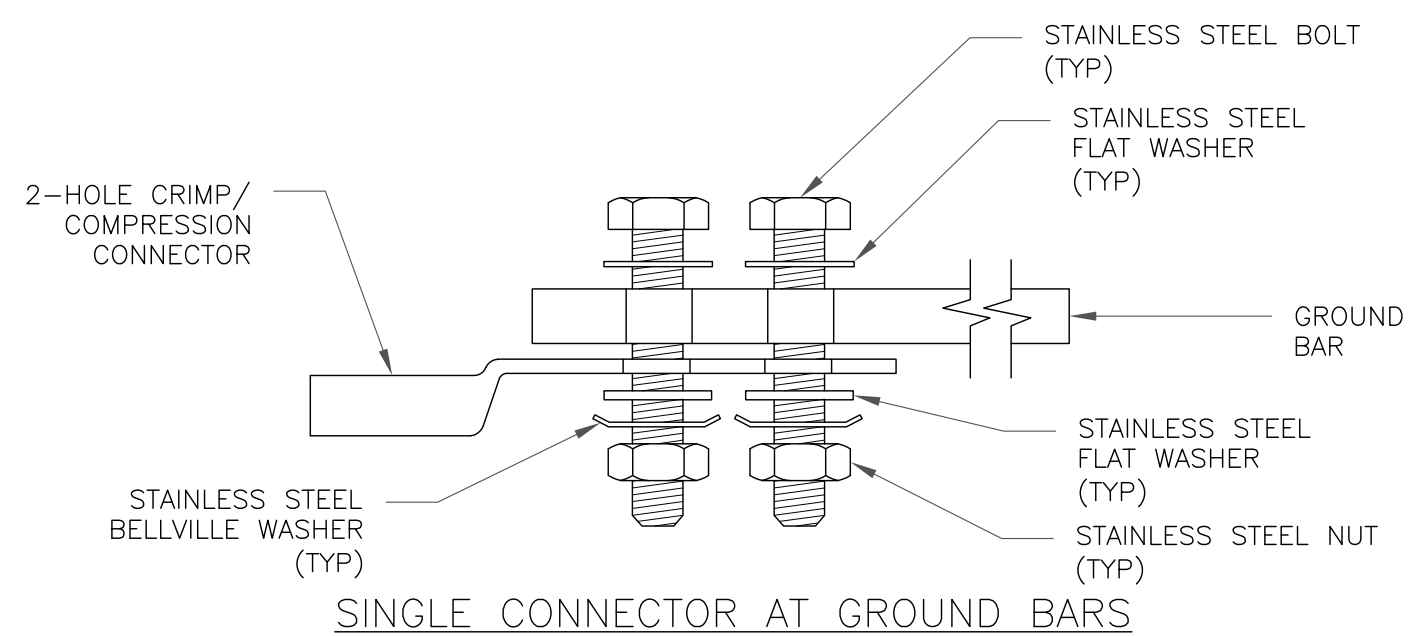
3 INSPECTION WELL DETAIL  
SCALE: NOT TO SCALE



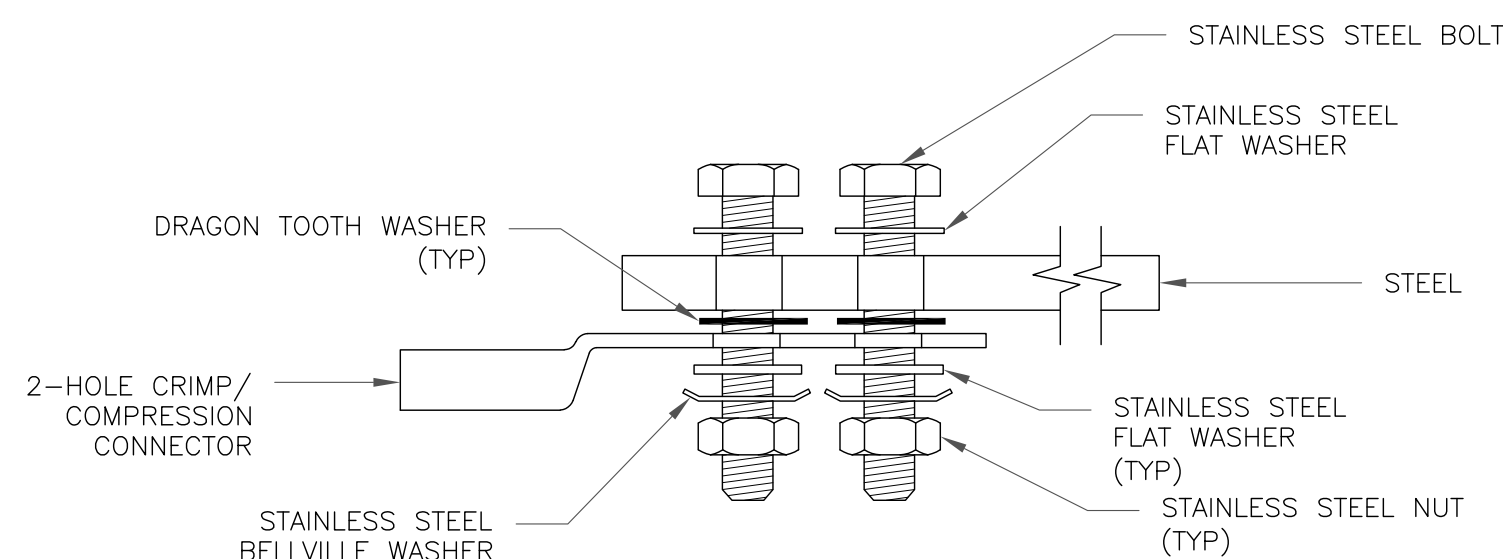
NOTES:

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

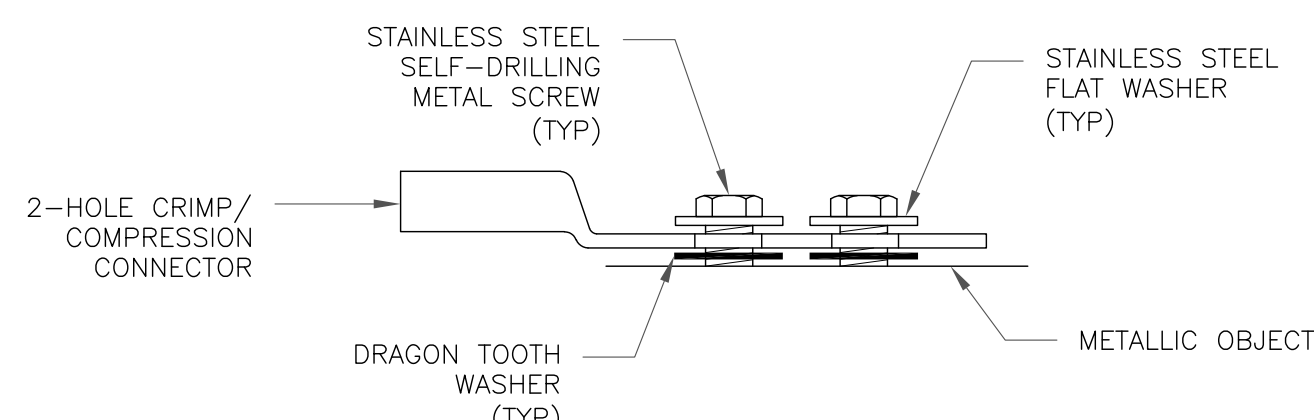
4 TYPICAL ANTENNA CABLE GROUNDING  
SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS

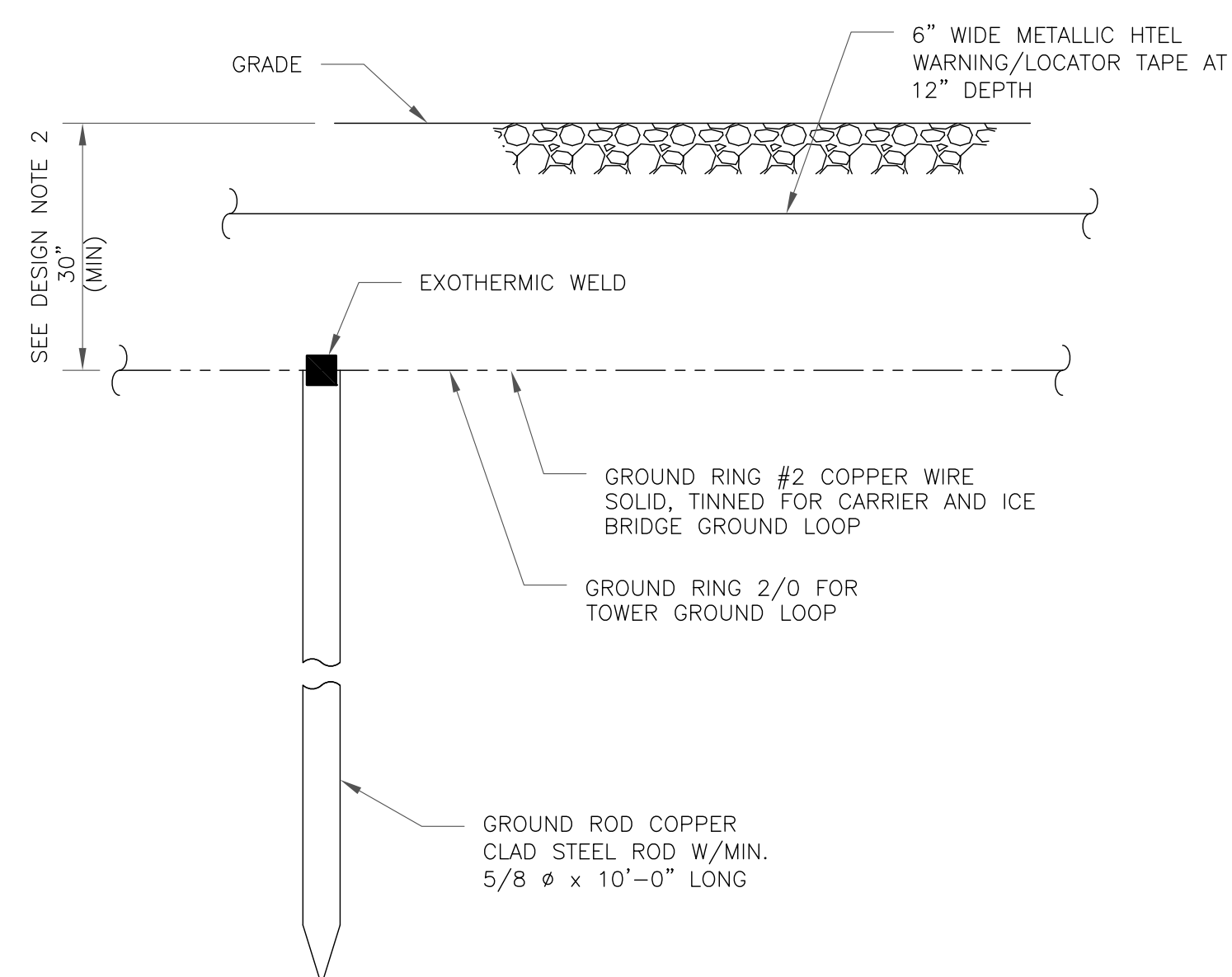


SINGLE CONNECTOR AT STEEL OBJECTS



SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

5 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS  
SCALE: NOT TO SCALE



NOTES:

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

6 GROUND ROD DETAIL  
SCALE: NOT TO SCALE

**verizon**  
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CLIFTON PARK, NY 12065

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VERIZON SITE NUMBER:  
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BU #: **806386**  
**NHV 106 943628**

83 REEDS GAP ROAD  
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EXISTING 92'-0"  
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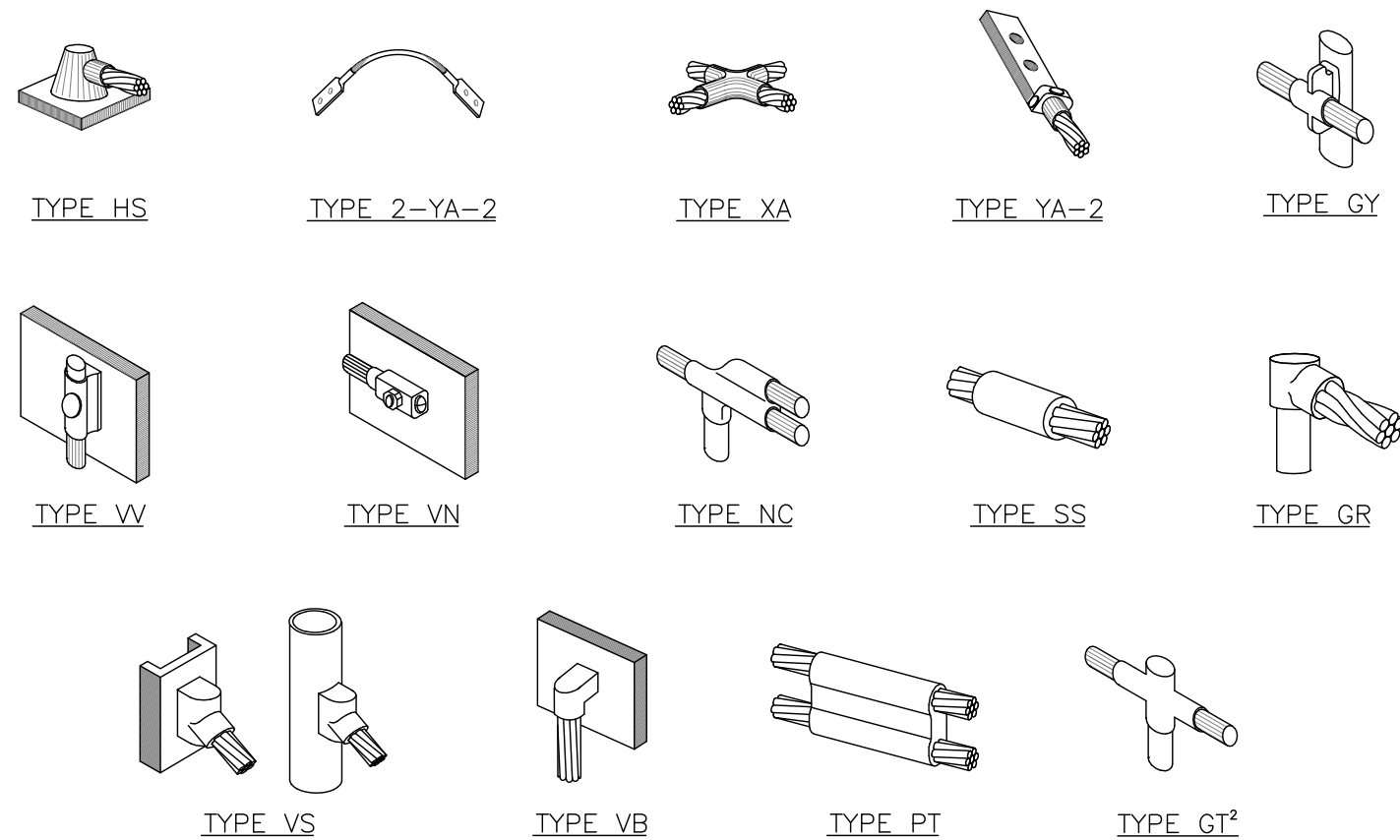
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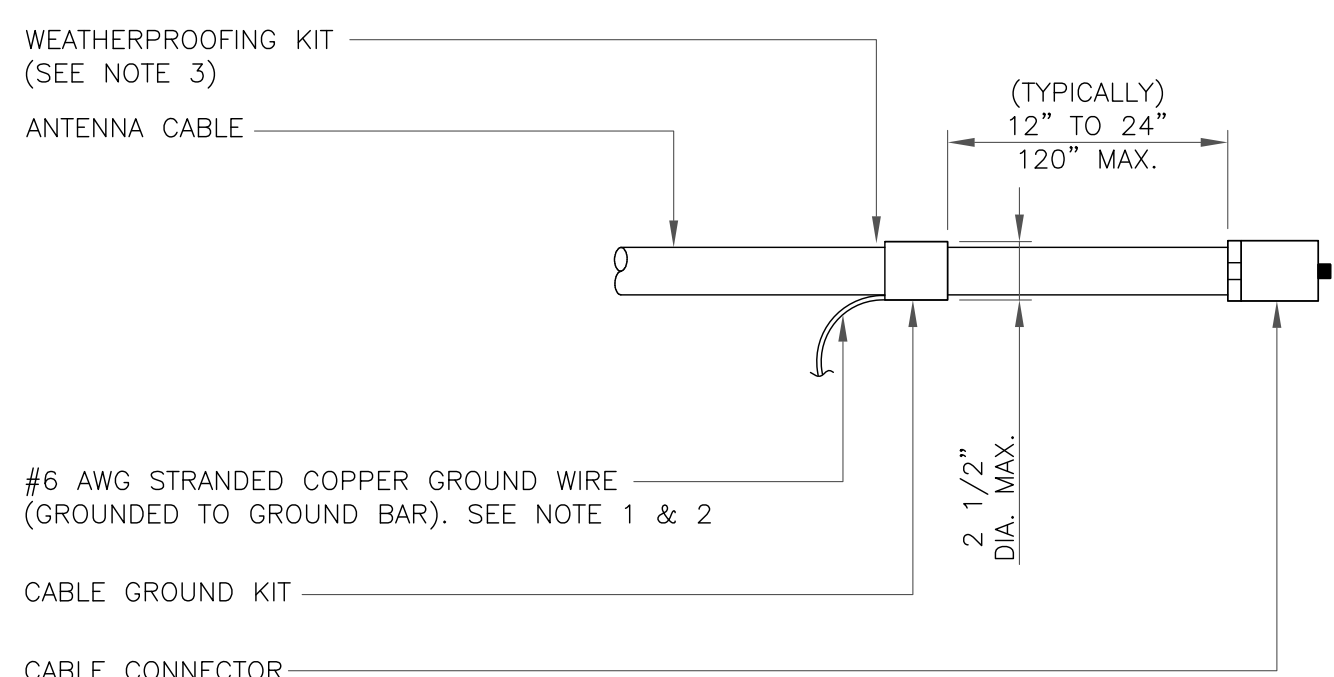




**NOTE:**

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

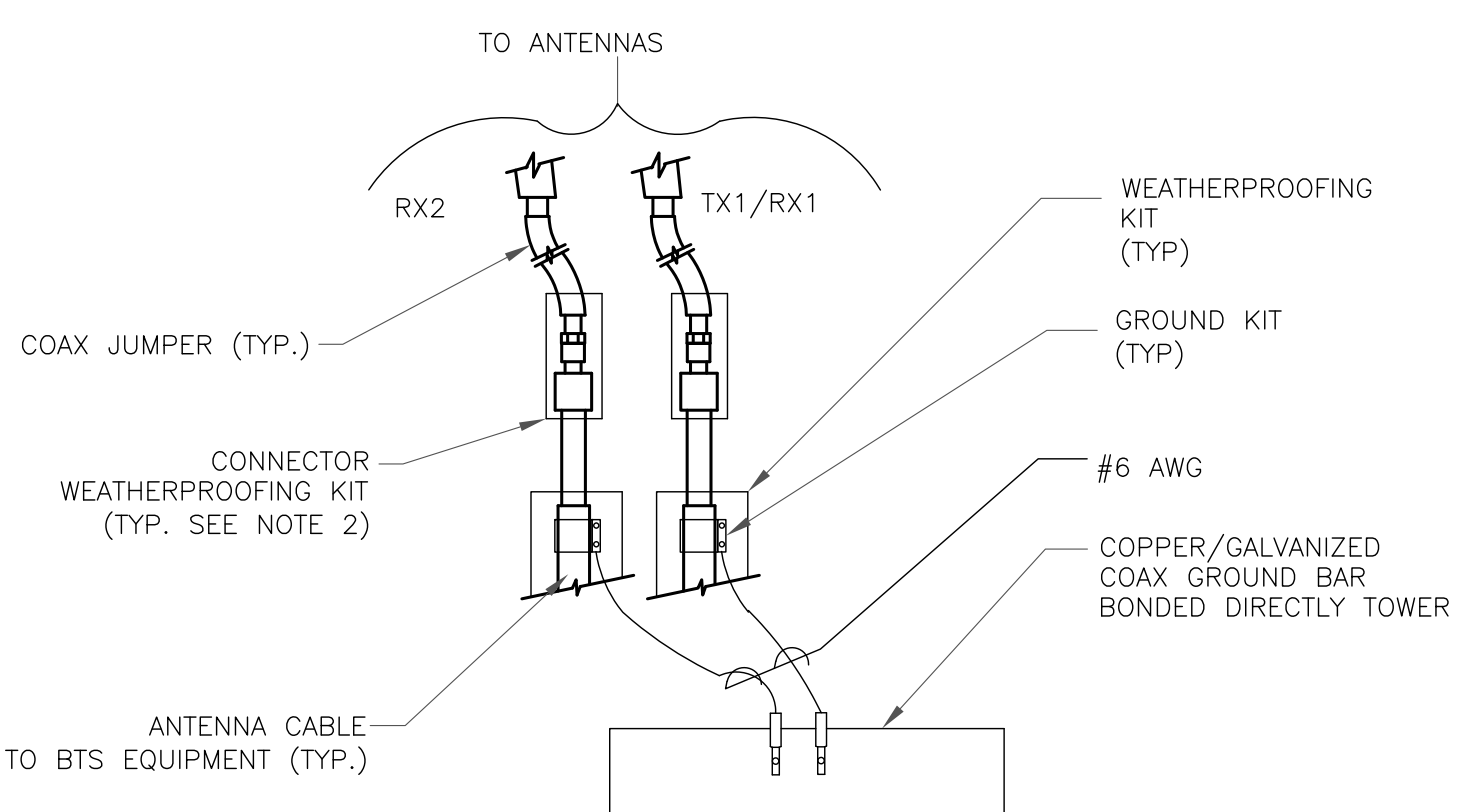
**1 CADWELD GROUNDING CONNECTIONS**  
SCALE: NOT TO SCALE



**NOTES:**

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

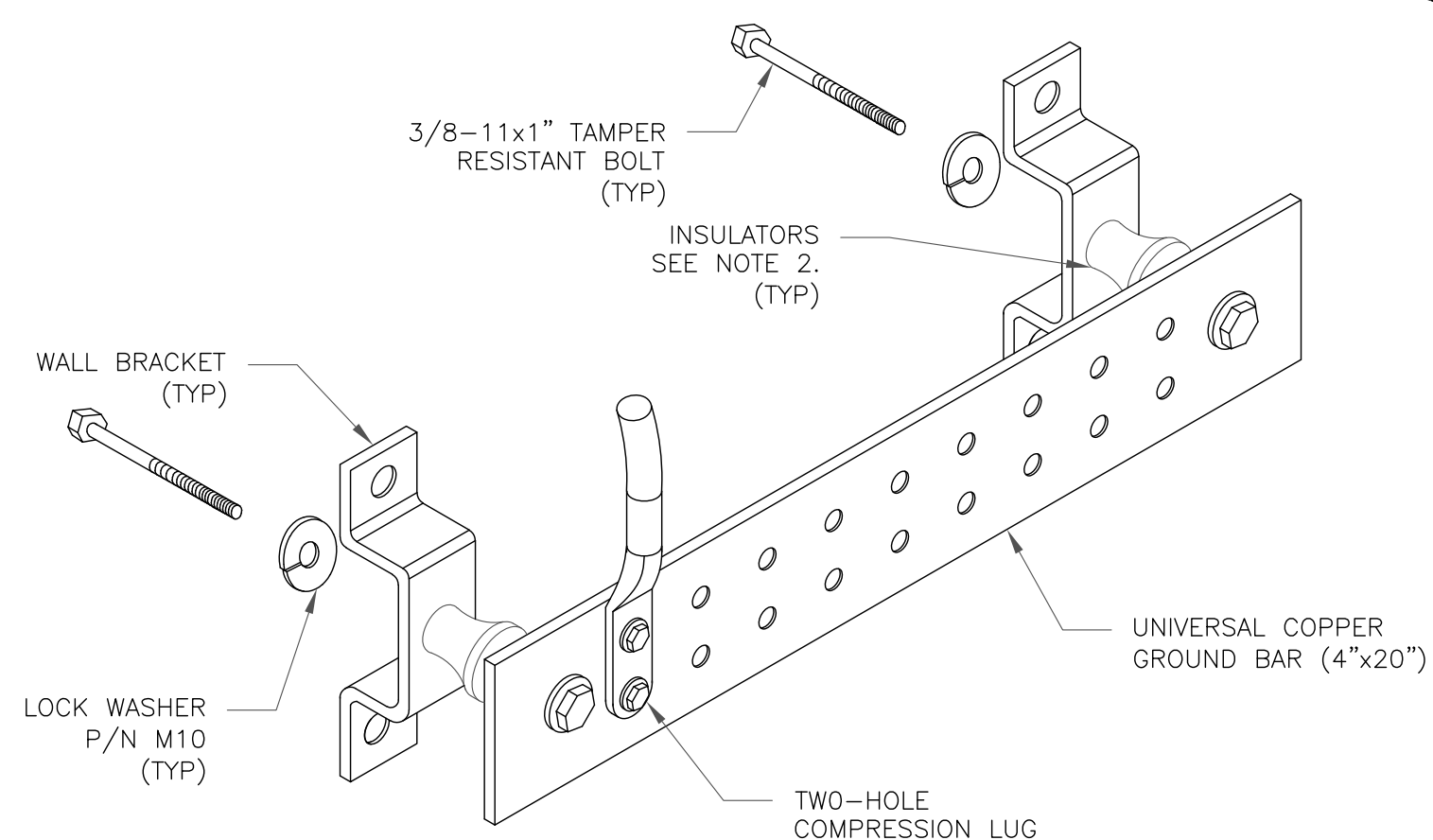
**3 CABLE GROUND KIT CONNECTION**  
SCALE: NOT TO SCALE



**NOTES:**

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

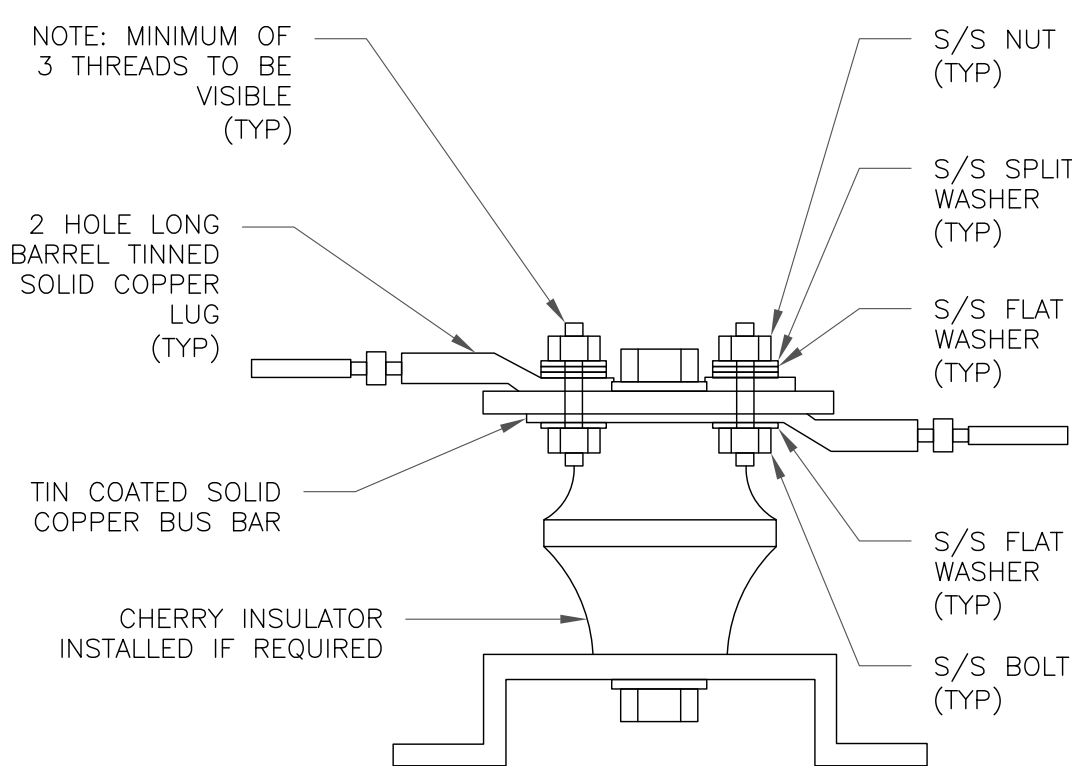
**4 GROUND CABLE CONNECTION**  
SCALE: NOT TO SCALE



**NOTES:**

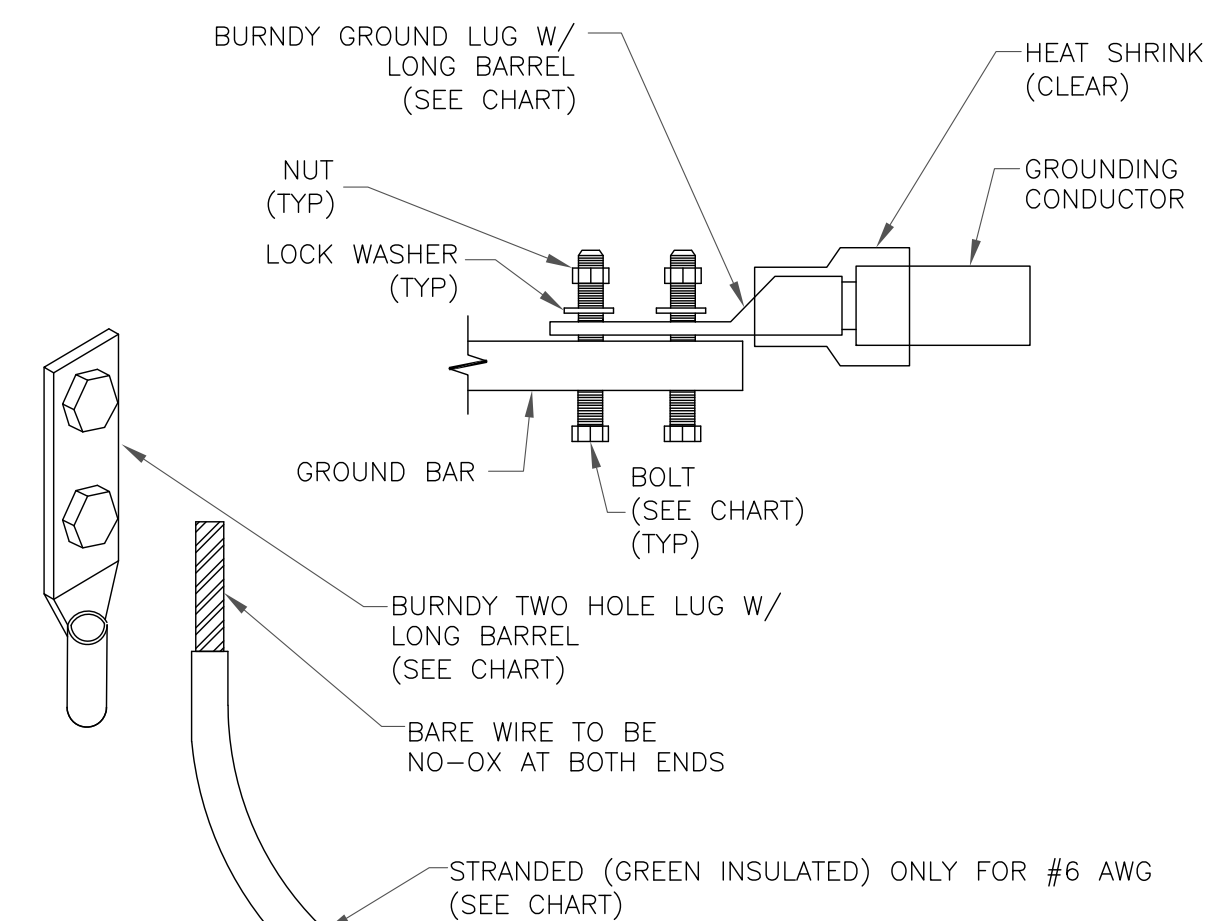
1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
2. OMIT INSULATOR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

**6 GROUND BAR DETAIL**  
SCALE: NOT TO SCALE



**7 LUG DETAIL**  
SCALE: NOT TO SCALE

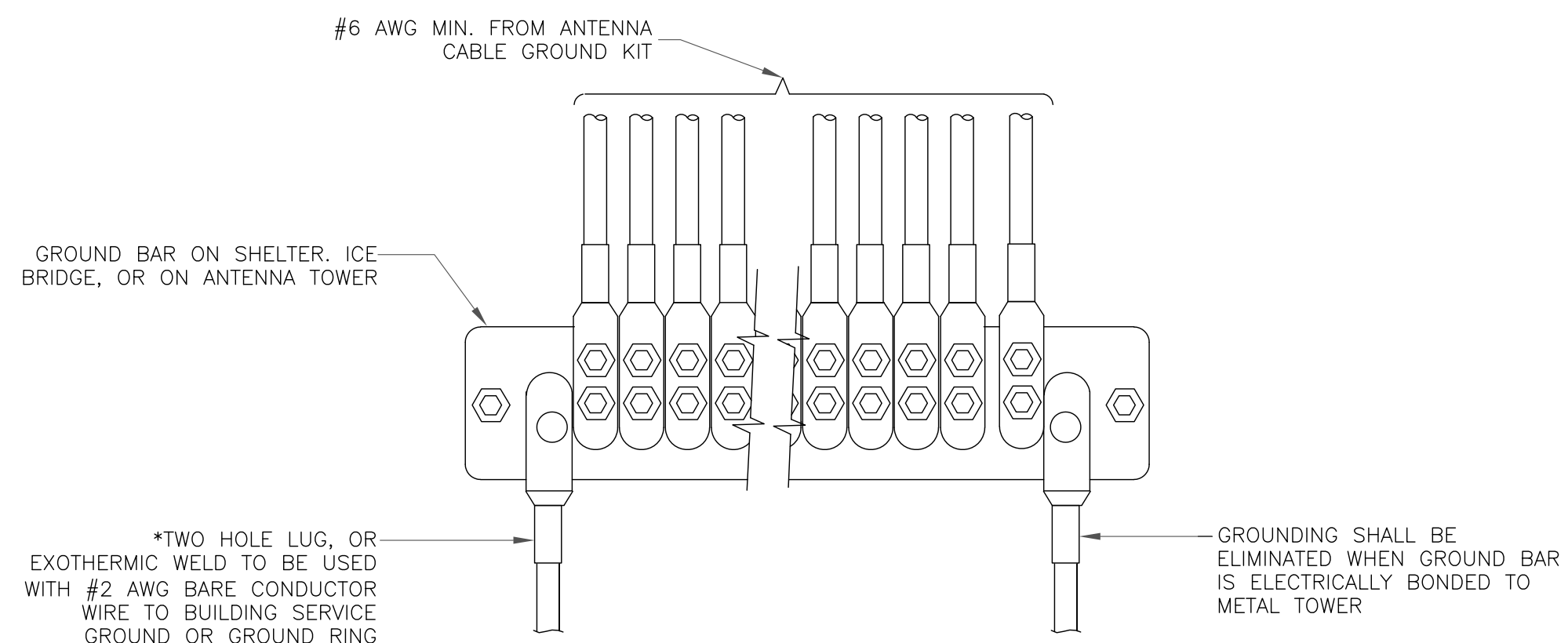
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



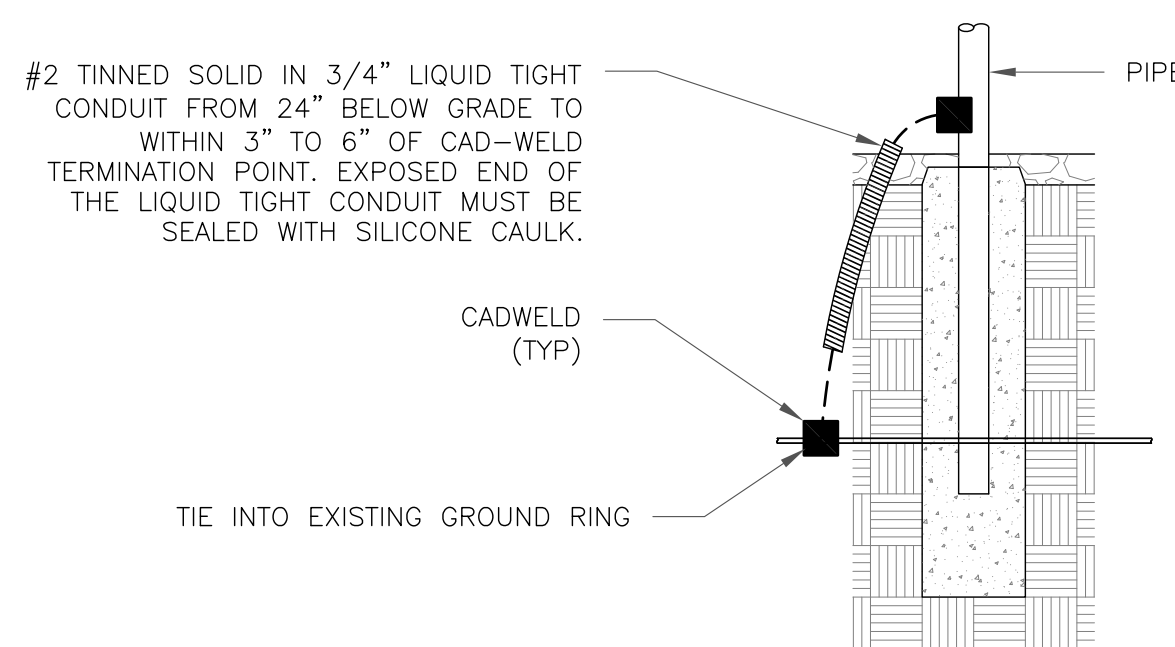
**NOTES:**

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

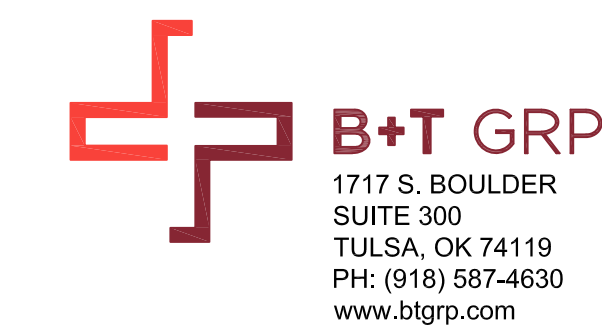
**2 MECHANICAL LUG CONNECTION**  
SCALE: NOT TO SCALE



**5 GROUNDWIRE INSTALLATION**  
SCALE: NOT TO SCALE



**8 TRANSITIONING GROUND DETAIL**  
SCALE: NOT TO SCALE



VERIZON SITE NUMBER:  
**468991**

BU #: **806386**  
NHV **106 943628**

83 REEDS GAP ROAD  
NORTH BRANFORD, CT 06472

EXISTING 92'-0"  
SELF-SUPPORT TOWER

**ISSUED FOR:**

REV	DATE	DRWN	DESCRIPTION	DES./QA
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1:39816.003.01\_NHV\_106\_943628\_Verizon\_Amendment\_NE\_NY\_02.18.2021.dwg - SheetG-2 - User: mjonas - Apr 15, 2021 - 10:49am

# Exhibit D

## **Structural Analysis Report**



MORRISON HERSHFIELD

Morrison Hershfield  
1455 Lincoln Parkway, Suite 500  
Atlanta GA 30346  
(770) 379-8500

Date: **April 27, 2021**

**Subject:** **Structural Analysis Report**

**Carrier Designation:** **Verizon Wireless Co-Locate**  
**Site Number:** 468991  
**Site Name:** NHV 106 943628

**Crown Castle Designation:** **BU Number:** 806386  
**Site Name:** NHV 106 943628  
**JDE Job Number:** 644614  
**Work Order Number:** 1950510  
**Order Number:** 552665 Rev. 0

**Engineering Firm Designation:** **Morrison Hershfield Project Number:** CN8-036 / 2101398

**Site Data:** **83 Reeds Gap Road, North Branford, New Haven County, CT 06472**  
**Latitude 41° 24' 12.47", Longitude -72° 44' 38.9"**  
**92 Foot - Rohn Self Support Tower**

Morrison Hershfield is pleased to submit this “**Structural Analysis Report**” to determine the structural integrity of the above-mentioned tower.

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

LC5: Proposed Equipment Configuration

**Sufficient Capacity - 78.1%**

This analysis utilizes an ultimate 3-second gust wind speed of 125 mph as required by the 2018 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 – Analysis Criteria.

Respectfully submitted by:

G. Lance Cooke, P.E. (CT License No. PEN.0028133)  
Senior Engineer



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tnxTower Output

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Additional Calculations

## 1) INTRODUCTION

This tower is a 92 ft self support tower designed by Rohn.

The tower was modified multiple times in the past to accommodate additional loading. All the modifications have been considered in this analysis per their respective post modification inspection reports.

## 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)
89.0	90.0	2	antel	LPA-80063/6CF w/ Mount Pipe	12 2	1-5/8 1-1/4
		4	decibel	DB844G65ZAXY w/ Mount Pipe		
		3	samsung telecommunications	MT6407-77A w/ Mount Pipe		
		6	commscope	JAHH-65B-R3B		
		3	commscope	CBC78T-DS-43-2X		
		3	samsung telecommunications	RFV01U-D1A		
		3	samsung telecommunications	RFV01U-D2A		
		2	rfs/celwave	DB-T1-6Z-8AB-0Z		
	3	-	Dual Mount Bracket [#BSAMNT-SBS-2-2]			
89.0	1	-	Sector Mount [SM 502-3]			

**Table 2 - Other Considered Equipment**

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
91.0	97.0	1	sinclair	SD210D-SF2P4SNM	3	7/8
	94.0	1	sinclair	SD310-HF2P4SNM		
	91.0	2	-	Side Arm Mount [SO 304-1]		
65.0	67.0	3	cci antennas	HPA65R-BU6A w/ Mount Pipe	12	7/8
		3	kathrein	80010965 w/ Mount Pipe	2	3/4
	66.0	3	powerwave technologies	7770.00 w/ Mount Pipe	2	3/8
		3	kathrein	782 10253	1	7/16 2.25C



Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
65.0	66.0	3	ericsson	RRUS 4449 B5/B12	-	-
		3	ericsson	RRUS 8843 B2/B66A		
		2	raycap	DC6-48-60-18-8F		
	65.0	6	powerwave technologies	LGP21401		
		1	-	Sector Mount [SM 502-3]		
59.0	60.0	1	gps	GPS_A	1	1/2
	59.0	1	tower mounts	Side Arm Mount [SO 305-1]		
34.0	35.0	1	spectracom	8225	1	1/2

### 3) ANALYSIS PROCEDURE

**Table 3 - Documents Provided**

Document	Reference	Source
4-GEOTECHNICAL REPORTS	1069632	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	4063555	CCISITES
4-TOWER MANUFACTURER DRAWINGS	962042	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	1093271	CCISITES
4-POST-MODIFICATION INSPECTION	1285457	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	962041	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	3841012	CCISITES
4-POST-MODIFICATION INSPECTION	4061638	CCISITES

#### 3.1) Analysis Method

tnxTower (version 8.0.9.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 standard.

#### 3.2) Assumptions

- 1) Tower and structures were maintained in accordance with the TIA-222 Standard.
- 2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.

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

### 4) ANALYSIS RESULTS

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

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
T1	92 - 80	Leg	ROHN 2 STD	3	-9.38	38.68	24.3	Pass
T2	80 - 75	Leg	ROHN 2.5 STD	27	-13.22	59.99	22.0	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
T3	75 - 70	Leg	ROHN 2.5 STD	36	-18.12	59.99	30.2	Pass
T4	70 - 65	Leg	ROHN 2.5 STD	45	-22.05	59.99	36.8	Pass
T5	65 - 60	Leg	ROHN 2.5 STD	53	-29.15	59.99	48.6	Pass
T6	60 - 40	Leg	ROHN 2.5 X-STR	65	-53.48	91.95	58.2	Pass
T7	40 - 20	Leg	ROHN 3 X-STR	95	-77.94	129.46	60.2	Pass
T8	20 - 13.3333	Leg	ROHN 3.5 X-STR	125	-85.81	161.66	53.1	Pass
T9	13.3333 - 6.66667	Leg	ROHN 3.5 X-STR	137	-93.88	161.69	58.1	Pass
T10	6.66667 - 0	Leg	ROHN 3.5 X-STR	149	-101.55	161.71	62.8	Pass
T1	92 - 80	Diagonal	L1 1/2x1 1/2x1/8	17	-2.37	5.03	47.2 68.0 (b)	Pass
T2	80 - 75	Diagonal	L1 3/4x1 3/4x1/8	32	-2.53	6.21	40.7 57.3 (b)	Pass
T3	75 - 70	Diagonal	L2x2x1/4	42	-2.35	16.10	14.6 34.4 (b)	Pass
T4	70 - 65	Diagonal	L1 3/4x1 3/4x1/8	50	-2.54	5.14	49.5 58.1 (b)	Pass
T5	65 - 60	Diagonal	L2x2x1/4	59	-3.49	13.37	26.1 47.3 (b)	Pass
T6	60 - 40	Diagonal	L2x2x1/4	68	-4.11	8.11	50.7 54.9 (b)	Pass
T7	40 - 20	Diagonal	L2 1/2x2 1/2x3/16	98	-4.47	9.64	46.4 69.2 (b)	Pass
T8	20 - 13.3333	Diagonal	L2 1/2x2 1/2x3/16	128	-4.71	8.90	52.9 70.8 (b)	Pass
T9	13.3333 - 6.66667	Diagonal	L2 1/2x2 1/2x3/8	141	-4.74	15.29	31.0 62.4 (b)	Pass
T10	6.66667 - 0	Diagonal	L2 1/2x2 1/2x3/8	152	-5.15	14.09	36.5 64.8 (b)	Pass
T6	60 - 40	Secondary Horizontal	L2 1/2x2 1/2x1/4	73	-0.93	24.82	3.7 12.9 (b)	Pass
T7	40 - 20	Secondary Horizontal	L2x2x1/4	103	-1.35	8.74	15.5 19.7 (b)	Pass
T8	20 - 13.3333	Secondary Horizontal	L2x2x1/4	133	-1.49	7.86	18.9 21.7 (b)	Pass
T9	13.3333 - 6.66667	Secondary Horizontal	L2x2x1/4	145	-1.63	7.05	23.1 23.7 (b)	Pass
T10	6.66667 - 0	Secondary Horizontal	L2x2x1/4	157	-1.76	6.36	27.7	Pass
T1	92 - 80	Top Girt	L2x2x1/8	4	-0.35	4.27	8.2 8.6 (b)	Pass
T5	65 - 60	Top Girt	L2 1/2x2 1/2x3/16	55	-0.51	7.96	6.4 8.2 (b)	Pass
							Summary	
							Leg (T10)	62.8 Pass
							Diagonal (T8)	70.8 Pass
							Secondary Horizontal (T10)	27.7 Pass
							Top Girt (T1)	8.6 Pass
							Bolt Checks	67.4 Pass
							Rating =	70.8 Pass

**Table 5 - Tower Component Stresses vs. Capacity - LC5**

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	0	51.5	Pass
1	Base Foundation (Structure)	0	14.0	Pass
1	Base Foundation (Soil Interaction)	0	78.1	Pass
<b>Structure Rating (max from all components) =</b>				<b>78.1%*</b>

Notes:

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

**4.1) Recommendations**

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

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

**SYMBOL LIST**

MARK	SIZE	MARK	SIZE
A	L1 3/4x1 3/4x1/8	B	L2 1/2x2 1/2x3/16

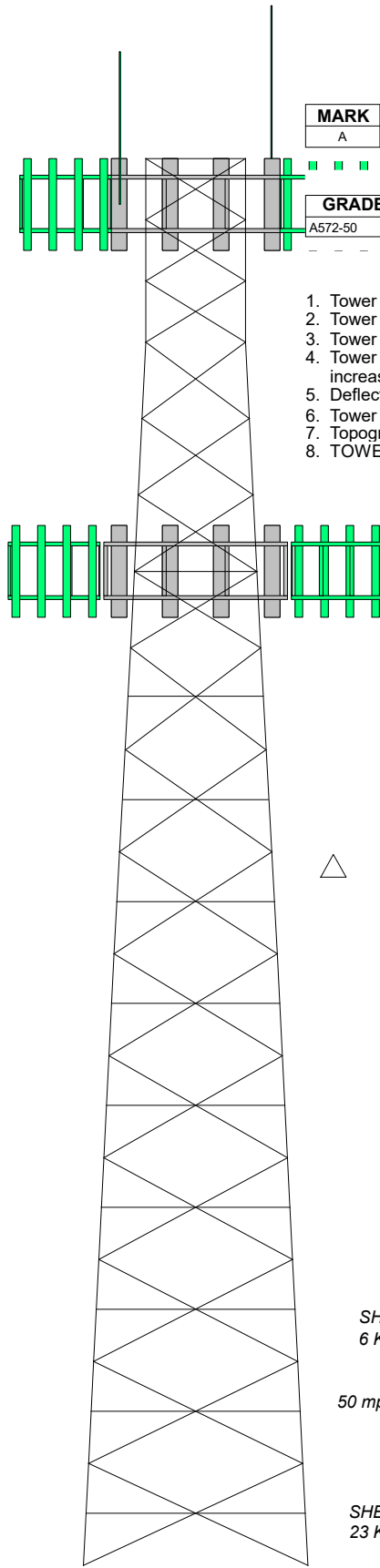
**MATERIAL STRENGTH**

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

**TOWER DESIGN NOTES**

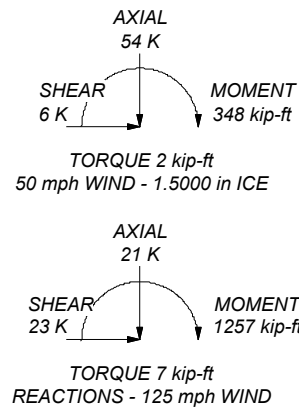
1. Tower is located in New Haven County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 125 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.50 in ice. Ice is considered to increase in 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 0.00 ft
8. TOWER RATING: 70.8%

92.0 ft  
80.0 ft  
75.0 ft  
70.0 ft  
65.0 ft  
60.0 ft  
40.0 ft  
20.0 ft  
13.3 ft  
6.7 ft  
0.0 ft




ALL REACTIONS  
ARE FACTORED

MAX. CORNER REACTIONS AT BASE:  
DOWN: 106 K  
SHEAR: 14 K  
UPLIFT: -90 K  
SHEAR: 12 K



Section	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10
Legs	ROHN 2 STD		ROHN 2.5 STD			ROHN 2.5 X-STR	ROHN 3 X-STR	ROHN 3.5 X-STR		
Leg Grade						A572-50				
Diagonals	L1 1/2x1 1/2x1/8	A	L2x2x1/4	A		L2x2x1/4	L2 1/2x2 1/2x3/16	L2 1/2x2 1/2x3/8		
Diagonal Grade						A36				
Top Girts	L2x2x1/8				B					
Sec. Horizontals		N.A.				L2 1/2x2 1/2x1/4	N.A.	L2x2x1/4		
Face Width (ft)	6.52083	6.5625	7.0625	7.5625	8.0625	8.5625	10.6042	12.6354	13.3229	14.0104
# Panels @ (ft)	3 @ 4		4 @ 5		4 @ 5		9 @ 6.66667			
Weight (K)	0.3	0.2	0.3	0.2	0.3	1.5	1.7	0.6	0.9	0.9

 Consulting Engineers	<b>Morrison Hershfield</b> 1455 Lincoln Parkway, Suite 500 Atlanta GA 30346 Phone: (770) 379-8500 FAX: (770) 379-8501			Job: <b>CN8-036 / 2101398</b>
	Project: <b>806386 / NHV 106 943628</b>			
	Client: <b>Crown Castle USA</b>	Drawn by: <b>RA</b>	App'd:	
	Code: <b>TIA-222-H</b>	Date: <b>04/27/21</b>	Scale: <b>NTS</b>	
Path:			Dwg No. <b>E-1</b>	

## Tower Input Data

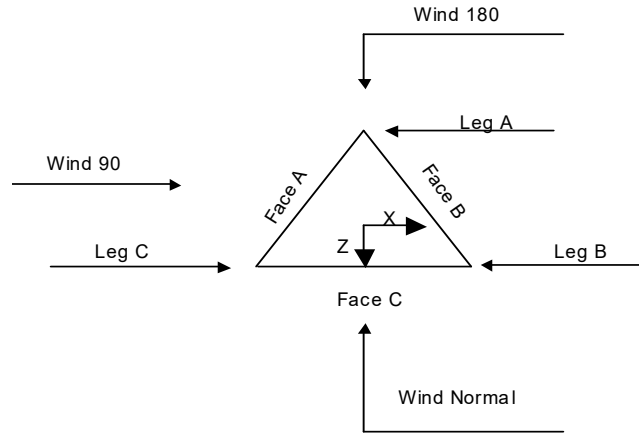
The main tower is a 3x free standing tower with an overall height of 92.00 ft above the ground line.  
 The base of the tower is set at an elevation of 0.00 ft above the ground line.  
 The face width of the tower is 6.52 ft at the top and 14.70 ft at the base.  
 This tower is designed using the TIA-222-H standard.

The following design criteria apply:

- Tower is located in New Haven County, Connecticut.
- Tower base elevation above sea level: 583.00 ft.
- Basic wind speed of 125 mph.
- Risk Category II.
- Exposure Category C.
- Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- Topographic Category: 1.
- Crest Height: 0.00 ft.
- Nominal ice thickness of 1.5000 in.
- Ice thickness is considered to increase with height.
- Ice density of 56 pcf.
- A wind speed of 50 mph is used in combination with ice.
- Temperature drop of 50 °F.
- Deflections calculated using a wind speed of 60 mph.
- A non-linear (P-delta) analysis was used.
- Pressures are calculated at each section.
- Stress ratio used in tower member design is 1.
- Tower analysis based on target reliabilities in accordance with Annex S.
- Load Modification Factors used:  $K_{es}(F_w) = 0.95$ ,  $K_{es}(t_i) = 0.85$ .
- Maximum demand-capacity ratio is: 1.05.
- Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

## Options

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



**Triangular Tower**

**Tower Section Geometry**

Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections	Section Length
	ft			ft		ft
T1	92.00-80.00			6.52	1	12.00
T2	80.00-75.00			6.56	1	5.00
T3	75.00-70.00			7.06	1	5.00
T4	70.00-65.00			7.56	1	5.00
T5	65.00-60.00			8.06	1	5.00
T6	60.00-40.00			8.56	1	20.00
T7	40.00-20.00			10.60	1	20.00
T8	20.00-13.33			12.64	1	6.67
T9	13.33-6.67			13.32	1	6.67
T10	6.67-0.00			14.01	1	6.67

**Tower Section Geometry (cont'd)**

Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset	Bottom Girt Offset
	ft	ft				in	in
T1	92.00-80.00	4.00	X Brace	No	No	0.0000	0.0000
T2	80.00-75.00	5.00	X Brace	No	No	0.0000	0.0000
T3	75.00-70.00	5.00	X Brace	No	No	0.0000	0.0000
T4	70.00-65.00	5.00	X Brace	No	No	0.0000	0.0000
T5	65.00-60.00	5.00	X Brace	No	No	0.0000	0.0000
T6	60.00-40.00	6.67	X Brace	No	Yes	0.0000	0.0000
T7	40.00-20.00	6.67	X Brace	No	Yes	0.0000	0.0000
T8	20.00-13.33	6.67	X Brace	No	Yes	0.0000	0.0000
T9	13.33-6.67	6.67	X Brace	No	Yes	0.0000	0.0000
T10	6.67-0.00	6.67	X Brace	No	Yes	0.0000	0.0000

### Tower Section Geometry (cont'd)

Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T1 92.00-80.00	Pipe	ROHN 2 STD	A572-50 (50 ksi)	Equal Angle	L1 1/2x1 1/2x1/8	A36 (36 ksi)
T2 80.00-75.00	Pipe	ROHN 2.5 STD	A572-50 (50 ksi)	Equal Angle	L1 3/4x1 3/4x1/8	A36 (36 ksi)
T3 75.00-70.00	Pipe	ROHN 2.5 STD	A572-50 (50 ksi)	Equal Angle	L2x2x1/4	A36 (36 ksi)
T4 70.00-65.00	Pipe	ROHN 2.5 STD	A572-50 (50 ksi)	Equal Angle	L1 3/4x1 3/4x1/8	A36 (36 ksi)
T5 65.00-60.00	Pipe	ROHN 2.5 STD	A572-50 (50 ksi)	Equal Angle	L2x2x1/4	A36 (36 ksi)
T6 60.00-40.00	Pipe	ROHN 2.5 X-STR	A572-50 (50 ksi)	Equal Angle	L2x2x1/4	A36 (36 ksi)
T7 40.00-20.00	Pipe	ROHN 3 X-STR	A572-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A36 (36 ksi)
T8 20.00-13.33	Pipe	ROHN 3.5 X-STR	A572-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A36 (36 ksi)
T9 13.33-6.67	Pipe	ROHN 3.5 X-STR	A572-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/8	A36 (36 ksi)
T10 6.67-0.00	Pipe	ROHN 3.5 X-STR	A572-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/8	A36 (36 ksi)

### Tower Section Geometry (cont'd)

Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
T1 92.00-80.00	Equal Angle	L2x2x1/8	A36 (36 ksi)	Pipe		A36 (36 ksi)
T5 65.00-60.00	Equal Angle	L2 1/2x2 1/2x3/16	A36 (36 ksi)	Pipe		A36 (36 ksi)

### Tower Section Geometry (cont'd)

Tower Elevation ft	Secondary Horizontal Type	Secondary Horizontal Size	Secondary Horizontal Grade	Inner Bracing Type	Inner Bracing Size	Inner Bracing Grade
T6 60.00-40.00	Equal Angle	L2 1/2x2 1/2x1/4	A36 (36 ksi)	Pipe		A36 (36 ksi)
T7 40.00-20.00	Equal Angle	L2x2x1/4	A36 (36 ksi)	Pipe		A36 (36 ksi)
T8 20.00-13.33	Equal Angle	L2x2x1/4	A36 (36 ksi)	Pipe		A36 (36 ksi)
T9 13.33-6.67	Equal Angle	L2x2x1/4	A36 (36 ksi)	Pipe		A36 (36 ksi)
T10 6.67-0.00	Equal Angle	L2x2x1/4	A36 (36 ksi)	Pipe		A36 (36 ksi)

### Tower Section Geometry (cont'd)

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
T1 92.00-80.00	0.00	0.1793	A36 (36 ksi)	1	1	1	36.0000	36.0000	36.0000



Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor $A_r$	Adjust. Factor $A_r$	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
ft	ft <sup>2</sup>	in					in	in	in
T2 80.00-75.00	0.00	0.1793	A36	1	1	1	36.0000	36.0000	36.0000
T3 75.00-70.00	0.00	0.1793	A36	1	1	1	36.0000	36.0000	36.0000
T4 70.00-65.00	0.00	0.1793	A36	1	1	1	36.0000	36.0000	36.0000
T5 65.00-60.00	0.00	0.1793	A36	1	1	1	36.0000	36.0000	36.0000
T6 60.00-40.00	0.00	0.1793	A36	1	1	1	36.0000	36.0000	36.0000
T7 40.00-20.00	0.00	0.1793	A36	1	1	1	36.0000	36.0000	36.0000
T8 20.00-13.33	0.00	0.1793	A36	1	1	1	36.0000	36.0000	36.0000
T9 13.33-6.67	0.00	0.1793	A36	1	1	1	36.0000	36.0000	36.0000
T10 6.67-0.00	0.00	0.1793	A36	1	1	1	36.0000	36.0000	36.0000

### Tower Section Geometry (cont'd)

Tower Elevation	Calc K Single Angles	Calc K Solid Rounds	Legs	K Factors <sup>1</sup>						
				X Brace Diags	K Brace Diags	Single Diags	Girts	Horiz.	Sec. Horiz.	Inner Brace
				X Y	X Y	X Y	X Y	X Y	X Y	X Y
T1 92.00-80.00	Yes	No	1	1	1	1	1	1	1	1
T2 80.00-75.00	Yes	No	1	1	1	1	1	1	1	1
T3 75.00-70.00	Yes	No	1	1	1	1	1	1	1	1
T4 70.00-65.00	Yes	No	1	1	1	1	1	1	1	1
T5 65.00-60.00	Yes	No	1	1	1	1	1	1	1	1
T6 60.00-40.00	Yes	No	1	1	1	1	1	1	1	1
T7 40.00-20.00	Yes	No	1	1	1	1	1	1	0.5	1
T8 20.00-13.33	Yes	No	1	1	1	1	1	1	0.5	1
T9 13.33-6.67	Yes	No	1	1	1	1	1	1	0.5	1
T10 6.67-0.00	Yes	No	1	1	1	1	1	1	0.5	1

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

### Tower Section Geometry (cont'd)

Tower Elevation ft	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
	Net Width	U	Net Width	U	Net Width	U	Net Width	U	Net Width	U	Net Width	U	Net Width	U
	Deduct		Deduct		Deduct		Deduct		Deduct		Deduct		Deduct	
	in		in		in		in		in		in		in	
T1 92.00-80.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75

Tower Elevation ft	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T2 80.00-75.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T3 75.00-70.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T4 70.00-65.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T5 65.00-60.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T6 60.00-40.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T7 40.00-20.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T8 20.00-13.33	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T9 13.33-6.67	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T10 6.67-0.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75

Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T1 92.00-80.00	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T2 80.00-75.00	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T3 75.00-70.00	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T4 70.00-65.00	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T5 65.00-60.00	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T6 60.00-40.00	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T7 40.00-20.00	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T8 20.00-13.33	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T9 13.33-6.67	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T10 6.67-0.00	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75

### Tower Section Geometry (cont'd)

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T1 92.00-80.00	Flange	0.6250	4	0.5000	1	0.5000	1	0.6250	0	0.6250	0	0.6250	0	0.5000	0
		A325X		A325X		A325X		A325N		A325N		A325N		A325N	
T2 80.00-75.00	Flange	0.6250	0	0.5000	1	0.5000	0	0.6250	0	0.6250	0	0.6250	0	0.5000	0
		A325X		A325X		A325N		A325N		A325N		A325N		A325N	
T3 75.00-70.00	Flange	0.6250	0	0.5000	1	0.5000	0	0.6250	0	0.6250	0	0.6250	0	0.5000	0
		A325X		A325X		A325N		A325N		A325N		A325N		A325N	
T4 70.00-65.00	Flange	0.6250	0	0.5000	1	0.5000	0	0.6250	0	0.6250	0	0.6250	0	0.5000	0
		A325X		A325X		A325N		A325N		A325N		A325N		A325N	
T5 65.00-60.00	Flange	0.6250	4	0.5000	1	0.5000	1	0.6250	0	0.6250	0	0.6250	0	0.5000	0
		A325X		A325X		A325X		A325N		A325N		A325N		A325N	

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T6 60.00-40.00	Flange	0.7500 A325X	4	0.5000 A325N	1	0.5000 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.5000 A325N	1
T7 40.00-20.00	Flange	0.8750 A325X	4	0.5000 A325X	1	0.5000 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325X	1
T8 20.00-13.33	Flange	0.8750 A449	0	0.5000 A325X	1	0.5000 A325N	0	0.0000 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325X	1
T9 13.33-6.67	Flange	0.8750 A449	0	0.5000 A325X	1	0.6250 A325N	0	0.0000 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325X	1
T10 6.67-0.00	Flange	0.8750 A449	0	0.5000 A325X	1	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325X	1

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

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
Feedline Ladder (Af)	A	No	No	Af (CaAa)	92.00 - 0.00	1.5000	0.1	1	1	3.0000	3.0000		8.40
Feedline Ladder (Af)	A	No	No	Af (CaAa)	92.00 - 0.00	2.0000	0.1	1	1	3.0000	3.0000		8.40
Feedline Ladder (Af)	C	No	No	Af (CaAa)	65.00 - 0.00	0.0000	-0.35	1	1	3.0000	3.0000		8.40
***													
LDF5-50A(7/8)	A	No	No	Ar (CaAa)	91.00 - 0.00	2.0000	0.1	2	2	0.5000	1.0900		0.33
LCF78-50A(7/8)	A	No	No	Ar (CaAa)	91.00 - 0.00	2.0000	0.1	1	1	0.5000	1.0900		0.34
***													
LDF7-50A(1-5/8)	A	No	No	Ar (CaAa)	89.00 - 0.00	0.0000	0	12	12	0.5000	1.9800		0.82
HB114-1-0813U4-M5F(1-1/4)	A	No	No	Ar (CaAa)	89.00 - 0.00	0.0000	-0.1	2	2	0.5000	1.5400		1.20
***													
AVA5-50(7/8)	C	No	No	Ar (CaAa)	65.00 - 0.00	0.0000	-0.4	12	8	0.5000	1.1020		0.30
FB-L98B-002-75000(3/8)	C	No	No	Ar (CaAa)	65.00 - 0.00	0.0000	-0.3	1	1	0.3937	0.0000		0.06
FB-L98B-034-XXX(3/8)	C	No	No	Ar (CaAa)	65.00 - 0.00	0.0000	-0.3	1	1	0.3937	0.0000		0.06
WR-VG122ST-BRDA(7/16)	C	No	No	Ar (CaAa)	65.00 - 0.00	0.0000	-0.3	2	2	0.4600	0.0000		0.14
WR-VG86ST-BRD(3/4)	C	No	No	Ar (CaAa)	65.00 - 0.00	0.0000	-0.3	2	2	0.5000	0.0000		0.58
2.25" Flexible Conduit	C	No	No	Ar (CaAa)	65.00 - 0.00	0.0000	-0.3	1	1	2.2500	2.2500		0.34
***													
LDF4-50A(1/2)	A	No	No	Ar (CaAa)	59.00 - 0.00	0.0000	0	1	1	0.5000	0.6250		0.15
***													
LDF4-50A(1/2)	A	No	No	Ar (CaAa)	34.00 - 0.00	0.0000	0	1	1	0.5000	0.6250		0.15
***													

### Feed Line/Linear Appurtenances Section Areas

Tower Sectio n	Tower Elevation ft	Face	$A_R$ ft <sup>2</sup>	$A_F$ ft <sup>2</sup>	$C_{AA}$ In Face ft <sup>2</sup>	$C_{AA}$ Out Face ft <sup>2</sup>	Weight K
T1	92.00-80.00	A	0.000	0.000	39.753	0.000	0.32
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.00
T2	80.00-75.00	A	0.000	0.000	20.055	0.000	0.15
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.00
T3	75.00-70.00	A	0.000	0.000	20.055	0.000	0.15
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.00
T4	70.00-65.00	A	0.000	0.000	20.055	0.000	0.15
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.00
T5	65.00-60.00	A	0.000	0.000	20.055	0.000	0.15
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	10.237	0.000	0.07
T6	60.00-40.00	A	0.000	0.000	81.407	0.000	0.60
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	40.948	0.000	0.28
T7	40.00-20.00	A	0.000	0.000	82.345	0.000	0.61
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	40.948	0.000	0.28
T8	20.00-13.33	A	0.000	0.000	27.573	0.000	0.20
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	13.649	0.000	0.09
T9	13.33-6.67	A	0.000	0.000	27.573	0.000	0.20
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	13.649	0.000	0.09
T10	6.67-0.00	A	0.000	0.000	27.573	0.000	0.20
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	13.649	0.000	0.09

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

Tower Sectio n	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
T1	92.00-80.00	A	1.403	0.000	0.000	77.439	0.000	1.13
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.00
T2	80.00-75.00	A	1.389	0.000	0.000	38.937	0.000	0.55
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.00
T3	75.00-70.00	A	1.379	0.000	0.000	38.864	0.000	0.55
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.00
T4	70.00-65.00	A	1.370	0.000	0.000	38.787	0.000	0.54
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.00
T5	65.00-60.00	A	1.359	0.000	0.000	38.704	0.000	0.54
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	24.431	0.000	0.32
T6	60.00-40.00	A	1.329	0.000	0.000	160.106	0.000	2.19
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	96.625	0.000	1.26
T7	40.00-20.00	A	1.263	0.000	0.000	162.492	0.000	2.15
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	94.203	0.000	1.20
T8	20.00-13.33	A	1.191	0.000	0.000	53.844	0.000	0.69
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	30.523	0.000	0.38
T9	13.33-6.67	A	1.132	0.000	0.000	53.063	0.000	0.66
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	29.800	0.000	0.37

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
T10	6.67-0.00	A	1.014	0.000	0.000	51.515	0.000	0.61
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	28.367	0.000	0.34

### Feed Line Center of Pressure

Section	Elevation ft	CP <sub>x</sub> in	CP <sub>z</sub> in	CP <sub>x</sub> Ice in	CP <sub>z</sub> Ice in
T1	92.00-80.00	-6.4951	-6.4651	-6.7268	-6.5120
T2	80.00-75.00	-7.7945	-7.2870	-8.1237	-7.4211
T3	75.00-70.00	-7.7949	-7.4225	-8.3396	-7.6965
T4	70.00-65.00	-8.5240	-8.0582	-8.9052	-8.2023
T5	65.00-60.00	1.6569	-3.1965	3.2511	-0.6548
T6	60.00-40.00	1.7665	-3.8451	3.1720	-1.1245
T7	40.00-20.00	1.7266	-4.2298	2.9940	-1.6399
T8	20.00-13.33	1.7536	-4.4931	2.9959	-1.9825
T9	13.33-6.67	1.8038	-4.6341	3.0952	-2.1635
T10	6.67-0.00	1.8515	-4.7690	3.1989	-2.4721

### 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
T1	1	Feedline Ladder (Af)	80.00 - 92.00	0.6000	0.6000
T1	2	Feedline Ladder (Af)	80.00 - 92.00	0.6000	0.6000
T1	5	LDF5-50A(7/8)	80.00 - 91.00	0.6000	0.6000
T1	6	LCF78-50A(7/8)	80.00 - 91.00	0.6000	0.6000
T1	8	LDF7-50A(1-5/8)	80.00 - 89.00	0.6000	0.6000
T1	9	HB114-1-0813U4-M5F(1-1/4)	80.00 - 89.00	0.6000	0.6000
T2	1	Feedline Ladder (Af)	75.00 - 80.00	0.6000	0.6000
T2	2	Feedline Ladder (Af)	75.00 - 80.00	0.6000	0.6000
T2	5	LDF5-50A(7/8)	75.00 - 80.00	0.6000	0.6000
T2	6	LCF78-50A(7/8)	75.00 - 80.00	0.6000	0.6000
T2	8	LDF7-50A(1-5/8)	75.00 - 80.00	0.6000	0.6000
T2	9	HB114-1-0813U4-M5F(1-1/4)	75.00 - 80.00	0.6000	0.6000
T3	1	Feedline Ladder (Af)	70.00 - 75.00	0.6000	0.6000
T3	2	Feedline Ladder (Af)	70.00 - 75.00	0.6000	0.6000
T3	5	LDF5-50A(7/8)	70.00 - 75.00	0.6000	0.6000
T3	6	LCF78-50A(7/8)	70.00 - 75.00	0.6000	0.6000
T3	8	LDF7-50A(1-5/8)	70.00 - 75.00	0.6000	0.6000
T3	9	HB114-1-0813U4-M5F(1-1/4)	70.00 - 75.00	0.6000	0.6000
T4	1	Feedline Ladder (Af)	65.00 - 70.00	0.6000	0.6000
T4	2	Feedline Ladder (Af)	65.00 - 70.00	0.6000	0.6000
T4	5	LDF5-50A(7/8)	65.00 - 70.00	0.6000	0.6000
T4	6	LCF78-50A(7/8)	65.00 - 70.00	0.6000	0.6000
T4	8	LDF7-50A(1-5/8)	65.00 - 70.00	0.6000	0.6000
T4	9	HB114-1-0813U4-M5F(1-1/4)	65.00 - 70.00	0.6000	0.6000
T5	1	Feedline Ladder (Af)	60.00 - 65.00	0.6000	0.6000
T5	2	Feedline Ladder (Af)	60.00 - 65.00	0.6000	0.6000
T5	3	Feedline Ladder (Af)	60.00 - 65.00	0.6000	0.6000
T5	5	LDF5-50A(7/8)	60.00 - 65.00	0.6000	0.6000
T5	6	LCF78-50A(7/8)	60.00 - 65.00	0.6000	0.6000
T5	8	LDF7-50A(1-5/8)	60.00 - 65.00	0.6000	0.6000
T5	9	HB114-1-0813U4-M5F(1-1/4)	60.00 - 65.00	0.6000	0.6000
T5	11	AVA5-50(7/8)	60.00 - 65.00	0.6000	0.6000
T5	12	FB-L98B-002-75000(3/8)	60.00 - 65.00	0.6000	0.6000
T5	13	FB-L98B-034-XXX(3/8)	60.00 - 65.00	0.6000	0.6000
T5	14	WR-VG122ST-BRDA(7/16)	60.00 - 65.00	0.6000	0.6000
T5	15	WR-VG86ST-BRD(3/4)	60.00 - 65.00	0.6000	0.6000
T5	16	2.25" Flexible Conduit	60.00 - 65.00	0.6000	0.6000
T6	1	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T6	2	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
T6	3	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T6	5	LDF5-50A(7/8)	40.00 - 60.00	0.6000	0.6000
T6	6	LCF78-50A(7/8)	40.00 - 60.00	0.6000	0.6000
T6	8	LDF7-50A(1-5/8)	40.00 - 60.00	0.6000	0.6000
T6	9	HB114-1-0813U4-M5F(1-1/4)	40.00 - 60.00	0.6000	0.6000
T6	11	AVA5-50(7/8)	40.00 - 60.00	0.6000	0.6000
T6	12	FB-L98B-002-75000(3/8)	40.00 - 60.00	0.6000	0.6000
T6	13	FB-L98B-034-XXX(3/8)	40.00 - 60.00	0.6000	0.6000
T6	14	WR-VG122ST-BRDA(7/16)	40.00 - 60.00	0.6000	0.6000
T6	15	WR-VG86ST-BRD(3/4)	40.00 - 60.00	0.6000	0.6000
T6	16	2.25" Flexible Conduit	40.00 - 60.00	0.6000	0.6000
T6	18	LDF4-50A(1/2)	40.00 - 59.00	0.6000	0.6000
T7	1	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T7	2	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T7	3	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T7	5	LDF5-50A(7/8)	20.00 - 40.00	0.6000	0.6000
T7	6	LCF78-50A(7/8)	20.00 - 40.00	0.6000	0.6000
T7	8	LDF7-50A(1-5/8)	20.00 - 40.00	0.6000	0.6000
T7	9	HB114-1-0813U4-M5F(1-1/4)	20.00 - 40.00	0.6000	0.6000
T7	11	AVA5-50(7/8)	20.00 - 40.00	0.6000	0.6000
T7	12	FB-L98B-002-75000(3/8)	20.00 - 40.00	0.6000	0.6000
T7	13	FB-L98B-034-XXX(3/8)	20.00 - 40.00	0.6000	0.6000
T7	14	WR-VG122ST-BRDA(7/16)	20.00 - 40.00	0.6000	0.6000
T7	15	WR-VG86ST-BRD(3/4)	20.00 - 40.00	0.6000	0.6000
T7	16	2.25" Flexible Conduit	20.00 - 40.00	0.6000	0.6000
T7	18	LDF4-50A(1/2)	20.00 - 40.00	0.6000	0.6000
T7	20	LDF4-50A(1/2)	20.00 - 34.00	0.6000	0.6000
T8	1	Feedline Ladder (Af)	13.33 - 20.00	0.6000	0.6000
T8	2	Feedline Ladder (Af)	13.33 - 20.00	0.6000	0.6000
T8	3	Feedline Ladder (Af)	13.33 - 20.00	0.6000	0.6000
T8	5	LDF5-50A(7/8)	13.33 - 20.00	0.6000	0.6000
T8	6	LCF78-50A(7/8)	13.33 - 20.00	0.6000	0.6000
T8	8	LDF7-50A(1-5/8)	13.33 - 20.00	0.6000	0.6000
T8	9	HB114-1-0813U4-M5F(1-1/4)	13.33 - 20.00	0.6000	0.6000
T8	11	AVA5-50(7/8)	13.33 - 20.00	0.6000	0.6000
T8	12	FB-L98B-002-75000(3/8)	13.33 - 20.00	0.6000	0.6000
T8	13	FB-L98B-034-XXX(3/8)	13.33 - 20.00	0.6000	0.6000
T8	14	WR-VG122ST-BRDA(7/16)	13.33 - 20.00	0.6000	0.6000
T8	15	WR-VG86ST-BRD(3/4)	13.33 - 20.00	0.6000	0.6000
T8	16	2.25" Flexible Conduit	13.33 - 20.00	0.6000	0.6000
T8	18	LDF4-50A(1/2)	13.33 - 20.00	0.6000	0.6000
T8	20	LDF4-50A(1/2)	13.33 - 20.00	0.6000	0.6000
T9	1	Feedline Ladder (Af)	6.67 - 13.33	0.6000	0.6000
T9	2	Feedline Ladder (Af)	6.67 - 13.33	0.6000	0.6000
T9	3	Feedline Ladder (Af)	6.67 - 13.33	0.6000	0.6000
T9	5	LDF5-50A(7/8)	6.67 - 13.33	0.6000	0.6000
T9	6	LCF78-50A(7/8)	6.67 - 13.33	0.6000	0.6000
T9	8	LDF7-50A(1-5/8)	6.67 - 13.33	0.6000	0.6000
T9	9	HB114-1-0813U4-M5F(1-1/4)	6.67 - 13.33	0.6000	0.6000
T9	11	AVA5-50(7/8)	6.67 - 13.33	0.6000	0.6000
T9	12	FB-L98B-002-75000(3/8)	6.67 - 13.33	0.6000	0.6000
T9	13	FB-L98B-034-XXX(3/8)	6.67 - 13.33	0.6000	0.6000
T9	14	WR-VG122ST-BRDA(7/16)	6.67 - 13.33	0.6000	0.6000
T9	15	WR-VG86ST-BRD(3/4)	6.67 - 13.33	0.6000	0.6000
T9	16	2.25" Flexible Conduit	6.67 - 13.33	0.6000	0.6000
T9	18	LDF4-50A(1/2)	6.67 - 13.33	0.6000	0.6000
T9	20	LDF4-50A(1/2)	6.67 - 13.33	0.6000	0.6000
T10	1	Feedline Ladder (Af)	0.00 - 6.67	0.6000	0.6000
T10	2	Feedline Ladder (Af)	0.00 - 6.67	0.6000	0.6000
T10	3	Feedline Ladder (Af)	0.00 - 6.67	0.6000	0.6000
T10	5	LDF5-50A(7/8)	0.00 - 6.67	0.6000	0.6000
T10	6	LCF78-50A(7/8)	0.00 - 6.67	0.6000	0.6000
T10	8	LDF7-50A(1-5/8)	0.00 - 6.67	0.6000	0.6000
T10	9	HB114-1-0813U4-M5F(1-1/4)	0.00 - 6.67	0.6000	0.6000
T10	11	AVA5-50(7/8)	0.00 - 6.67	0.6000	0.6000
T10	12	FB-L98B-002-75000(3/8)	0.00 - 6.67	0.6000	0.6000
T10	13	FB-L98B-034-XXX(3/8)	0.00 - 6.67	0.6000	0.6000
T10	14	WR-VG122ST-BRDA(7/16)	0.00 - 6.67	0.6000	0.6000
T10	15	WR-VG86ST-BRD(3/4)	0.00 - 6.67	0.6000	0.6000
T10	16	2.25" Flexible Conduit	0.00 - 6.67	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
T10	18	LDF4-50A(1/2)	0.00 - 6.67	0.6000	0.6000
T10	20	LDF4-50A(1/2)	0.00 - 6.67	0.6000	0.6000

### Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustmen t °	Placement ft		C <sub>A</sub> A <sub>A</sub> Front ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Side ft <sup>2</sup>	Weight K
****RA****									
SD210D-SF2P4SNM	B	From Leg	2.00	0.0000	91.00	No Ice	4.24	4.24	0.04
			0.00			1/2"	6.47	6.47	0.10
			6.00			Ice	8.68	8.68	0.18
						1" Ice	13.00	13.00	0.42
SD310-HF2P4SNM	C	From Leg	2.00	0.0000	91.00	No Ice	10.74	10.74	0.02
			0.00			1/2"	15.26	15.26	0.18
			3.00			Ice	15.95	15.95	0.35
						1" Ice	17.36	17.36	0.71
Side Arm Mount [SO 304-1]	B	From Leg	1.00	0.0000	91.00	No Ice	0.31	0.88	0.02
			0.00			1/2"	0.50	1.26	0.03
			0.00			Ice	0.73	1.67	0.05
						1" Ice	1.29	2.58	0.09
Side Arm Mount [SO 304-1]	C	From Leg	1.00	0.0000	91.00	No Ice	0.31	0.88	0.02
			0.00			1/2"	0.50	1.26	0.03
			0.00			Ice	0.73	1.67	0.05
						1" Ice	1.29	2.58	0.09
(2) JAHH-65B-R3B	A	From Leg	4.00	49.0000	89.00	No Ice	5.29	3.05	0.06
			0.00			1/2"	5.75	3.48	0.12
			1.00			Ice	6.22	3.93	0.19
						1" Ice	7.20	4.84	0.33
(2) JAHH-65B-R3B	B	From Leg	4.00	49.0000	89.00	No Ice	5.29	3.05	0.06
			0.00			1/2"	5.75	3.48	0.12
			1.00			Ice	6.22	3.93	0.19
						1" Ice	7.20	4.84	0.33
(2) JAHH-65B-R3B	C	From Leg	4.00	59.0000	89.00	No Ice	5.29	3.05	0.06
			0.00			1/2"	5.75	3.48	0.12
			1.00			Ice	6.22	3.93	0.19
						1" Ice	7.20	4.84	0.33
(2) DB844G65ZAXY w/ Mount Pipe	A	From Leg	4.00	49.0000	89.00	No Ice	4.23	4.51	0.03
			0.00			1/2"	4.71	5.00	0.08
			1.00			Ice	5.21	5.50	0.13
						1" Ice	6.26	6.57	0.25
(2) DB844G65ZAXY w/ Mount Pipe	B	From Leg	4.00	49.0000	89.00	No Ice	4.23	4.51	0.03
			0.00			1/2"	4.71	5.00	0.08
			1.00			Ice	5.21	5.50	0.13
						1" Ice	6.26	6.57	0.25
(2) LPA-80063/6CF w/ Mount Pipe	C	From Leg	4.00	59.0000	89.00	No Ice	9.83	10.22	0.05
			0.00			1/2"	10.40	11.38	0.14
			1.00			Ice	10.93	12.27	0.25
						1" Ice	12.03	14.09	0.48
CBC78T-DS-43-2X	A	From Leg	4.00	0.0000	89.00	No Ice	0.37	0.51	0.02
			0.00			1/2"	0.45	0.60	0.03
			1.00			Ice	0.53	0.70	0.04

Description	Face or Leg	Offset Type	Offsets:			Azimuth Adjustment	Placement	C <sub>AA</sub> <sub>Front</sub>	C <sub>AA</sub> <sub>Side</sub>	Weight
			Horz	Lateral	Vert					
			ft	ft	ft	°	ft	ft <sup>2</sup>	ft <sup>2</sup>	K
CBC78T-DS-43-2X	B	From Leg	4.00	0.0000	89.00		1" Ice	0.72	0.93	0.06
							2" Ice	0.37	0.51	0.02
							No Ice	0.45	0.60	0.03
							1/2" Ice	0.53	0.70	0.04
(2) DB-T1-6Z-8AB-0Z	A	From Leg	4.00	0.0000	89.00		1" Ice	0.72	0.93	0.06
							2" Ice	4.80	2.00	0.04
							No Ice	5.07	2.19	0.08
							1/2" Ice	5.35	2.39	0.12
CBC78T-DS-43-2X	C	From Leg	4.00	0.0000	89.00		1" Ice	5.93	2.81	0.21
							2" Ice	0.37	0.51	0.02
							No Ice	0.45	0.60	0.03
							1/2" Ice	0.53	0.70	0.04
RFV01U-D1A	A	From Leg	4.00	0.0000	89.00		1" Ice	0.72	0.93	0.06
							2" Ice	1.88	1.25	0.08
							No Ice	2.05	1.39	0.10
							1/2" Ice	2.22	1.54	0.12
RFV01U-D1A	B	From Leg	4.00	0.0000	89.00		1" Ice	2.60	1.86	0.18
							2" Ice	1.88	1.25	0.08
							No Ice	2.05	1.39	0.10
							1/2" Ice	2.22	1.54	0.12
RFV01U-D1A	C	From Leg	4.00	0.0000	89.00		1" Ice	2.60	1.86	0.18
							2" Ice	1.88	1.25	0.08
							No Ice	2.05	1.39	0.10
							1/2" Ice	2.22	1.54	0.12
RFV01U-D2A	A	From Leg	4.00	0.0000	89.00		1" Ice	2.60	1.59	0.15
							2" Ice	1.88	1.01	0.07
							No Ice	2.05	1.14	0.09
							1/2" Ice	2.22	1.28	0.11
RFV01U-D2A	B	From Leg	4.00	0.0000	89.00		1" Ice	2.60	1.59	0.15
							2" Ice	1.88	1.01	0.07
							No Ice	2.05	1.14	0.09
							1/2" Ice	2.22	1.28	0.11
RFV01U-D2A	C	From Leg	4.00	0.0000	89.00		1" Ice	2.60	1.59	0.15
							2" Ice	1.88	1.01	0.07
							No Ice	2.05	1.14	0.09
							1/2" Ice	2.22	1.28	0.11
Sector Mount [SM 502-3]	C	None		0.0000	89.00		2" Ice	29.82	29.82	1.67
							No Ice	42.21	42.21	2.27
							1/2" Ice	54.43	54.43	3.05
							1" Ice	78.49	78.49	5.18
(3) 4' x 2" Pipe Mount	A	From Leg	4.00	0.0000	89.00		2" Ice	0.79	0.79	0.03
							No Ice	1.03	1.03	0.04
							1/2" Ice	1.28	1.28	0.04
							1" Ice	1.81	1.81	0.07
(3) 4' x 2" Pipe Mount	B	From Leg	4.00	0.0000	89.00		2" Ice	0.79	0.79	0.03
							No Ice	1.03	1.03	0.04
							1/2" Ice	1.28	1.28	0.04
							1" Ice	1.81	1.81	0.07
(3) 4' x 2" Pipe Mount	C	From Leg	4.00	0.0000	89.00		2" Ice	0.79	0.79	0.03
							No Ice	1.03	1.03	0.04
							1/2" Ice	1.28	1.28	0.04
							1" Ice	1.28	1.28	0.04



Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft 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 2" Ice	1.81 1.81	0.07	
Dual Mount Bracket [#BSAMNT-SBS-2-2]	A	From Leg	4.00 0.00 1.00	0.0000	89.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.90 2.73 3.40 4.40 4.40	0.03 0.04 0.06 0.12	
Dual Mount Bracket [#BSAMNT-SBS-2-2]	B	From Leg	4.00 0.00 1.00	0.0000	89.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.90 2.73 3.40 4.40 4.40	0.03 0.04 0.06 0.12	
Dual Mount Bracket [#BSAMNT-SBS-2-2]	C	From Leg	4.00 0.00 1.00	0.0000	89.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.90 2.73 3.40 4.40 4.40	0.03 0.04 0.06 0.12	
***									
MT6407-77A w/ Mount Pipe	A	From Leg	4.00 0.00 1.00	0.0000	89.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.91 5.26 5.61 6.36 4.63	2.68 3.14 3.62 4.63	0.10 0.14 0.18 0.29
MT6407-77A w/ Mount Pipe	B	From Leg	4.00 0.00 1.00	0.0000	89.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.91 5.26 5.61 6.36 4.63	2.68 3.14 3.62 4.63	0.10 0.14 0.18 0.29
MT6407-77A w/ Mount Pipe	C	From Leg	4.00 0.00 1.00	0.0000	89.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.91 5.26 5.61 6.36 4.63	2.68 3.14 3.62 4.63	0.10 0.14 0.18 0.29
***									
7770.00 w/ Mount Pipe	A	From Leg	4.00 0.00 1.00	29.0000	65.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.75 6.18 6.61 7.49 7.16	4.25 5.01 5.71 7.16	0.06 0.10 0.16 0.29
7770.00 w/ Mount Pipe	B	From Leg	4.00 0.00 1.00	29.0000	65.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.75 6.18 6.61 7.49 7.16	4.25 5.01 5.71 7.16	0.06 0.10 0.16 0.29
7770.00 w/ Mount Pipe	C	From Leg	4.00 0.00 1.00	49.0000	65.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.75 6.18 6.61 7.49 7.16	4.25 5.01 5.71 7.16	0.06 0.10 0.16 0.29
HPA65R-BU6A w/ Mount Pipe	A	From Leg	4.00 0.00 2.00	69.0000	65.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.83 6.40 6.99 8.19 7.32	5.00 5.56 6.13 7.32	0.08 0.14 0.22 0.40
HPA65R-BU6A w/ Mount Pipe	B	From Leg	4.00 0.00 2.00	69.0000	65.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.83 6.40 6.99 8.19 7.32	5.00 5.56 6.13 7.32	0.08 0.14 0.22 0.40
HPA65R-BU6A w/ Mount Pipe	C	From Leg	4.00 0.00 2.00	69.0000	65.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.83 6.40 6.99 8.19 7.32	5.00 5.56 6.13 7.32	0.08 0.14 0.22 0.40
80010965 w/ Mount Pipe	A	From Leg	4.00	69.0000	65.00	No Ice	12.26	5.79	0.14

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft 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	
			0.00			1/2"	13.03	6.47	0.23
			1.00			Ice	13.80	7.17	0.33
						1" Ice	15.41	8.60	0.57
						2" Ice			
80010965 w/ Mount Pipe	B	From Leg	4.00	69.0000	65.00	No Ice	12.26	5.79	0.14
			0.00			1/2"	13.03	6.47	0.23
			1.00			Ice	13.80	7.17	0.33
						1" Ice	15.41	8.60	0.57
						2" Ice			
80010965 w/ Mount Pipe	C	From Leg	4.00	69.0000	65.00	No Ice	12.26	5.79	0.14
			0.00			1/2"	13.03	6.47	0.23
			1.00			Ice	13.80	7.17	0.33
						1" Ice	15.41	8.60	0.57
						2" Ice			
(2) LGP21401	A	From Leg	4.00	0.0000	65.00	No Ice	1.10	0.21	0.01
			0.00			1/2"	1.24	0.27	0.02
			0.00			Ice	1.38	0.35	0.03
						1" Ice	1.69	0.52	0.05
						2" Ice			
(2) LGP21401	B	From Leg	4.00	0.0000	65.00	No Ice	1.10	0.21	0.01
			0.00			1/2"	1.24	0.27	0.02
			0.00			Ice	1.38	0.35	0.03
						1" Ice	1.69	0.52	0.05
						2" Ice			
(2) LGP21401	C	From Leg	4.00	0.0000	65.00	No Ice	1.10	0.21	0.01
			0.00			1/2"	1.24	0.27	0.02
			0.00			Ice	1.38	0.35	0.03
						1" Ice	1.69	0.52	0.05
						2" Ice			
782 10253	A	From Leg	4.00	0.0000	65.00	No Ice	0.11	0.06	0.00
			0.00			1/2"	0.15	0.10	0.00
			1.00			Ice	0.20	0.14	0.01
						1" Ice	0.33	0.25	0.01
						2" Ice			
782 10253	B	From Leg	4.00	0.0000	65.00	No Ice	0.11	0.06	0.00
			0.00			1/2"	0.15	0.10	0.00
			1.00			Ice	0.20	0.14	0.01
						1" Ice	0.33	0.25	0.01
						2" Ice			
782 10253	C	From Leg	4.00	0.0000	65.00	No Ice	0.11	0.06	0.00
			0.00			1/2"	0.15	0.10	0.00
			1.00			Ice	0.20	0.14	0.01
						1" Ice	0.33	0.25	0.01
						2" Ice			
RRUS 8843 B2/B66A	A	From Leg	4.00	0.0000	65.00	No Ice	1.64	1.35	0.07
			0.00			1/2"	1.80	1.50	0.09
			1.00			Ice	1.97	1.65	0.11
						1" Ice	2.32	1.99	0.16
						2" Ice			
RRUS 8843 B2/B66A	B	From Leg	4.00	0.0000	65.00	No Ice	1.64	1.35	0.07
			0.00			1/2"	1.80	1.50	0.09
			1.00			Ice	1.97	1.65	0.11
						1" Ice	2.32	1.99	0.16
						2" Ice			
RRUS 8843 B2/B66A	C	From Leg	4.00	0.0000	65.00	No Ice	1.64	1.35	0.07
			0.00			1/2"	1.80	1.50	0.09
			1.00			Ice	1.97	1.65	0.11
						1" Ice	2.32	1.99	0.16
						2" Ice			
RRUS 4449 B5/B12	A	From Leg	4.00	0.0000	65.00	No Ice	1.97	1.41	0.07
			0.00			1/2"	2.14	1.56	0.09
			1.00			Ice	2.33	1.73	0.11
						1" Ice	2.72	2.07	0.16
						2" Ice			
RRUS 4449 B5/B12	B	From Leg	4.00	0.0000	65.00	No Ice	1.97	1.41	0.07

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"	2.14	1.56	0.09
			1.00			Ice	2.33	1.73	0.11
						1" Ice	2.72	2.07	0.16
						2" Ice			
RRUS 4449 B5/B12	C	From Leg	4.00	0.0000	65.00	No Ice	1.97	1.41	0.07
			0.00			1/2"	2.14	1.56	0.09
			1.00			Ice	2.33	1.73	0.11
						1" Ice	2.72	2.07	0.16
						2" Ice			
DC6-48-60-18-8F	A	From Leg	4.00	0.0000	65.00	No Ice	0.92	0.92	0.02
			0.00			1/2"	1.46	1.46	0.04
			1.00			Ice	1.64	1.64	0.06
						1" Ice	2.04	2.04	0.11
						2" Ice			
DC6-48-60-18-8F	B	From Leg	4.00	0.0000	65.00	No Ice	0.92	0.92	0.02
			0.00			1/2"	1.46	1.46	0.04
			1.00			Ice	1.64	1.64	0.06
						1" Ice	2.04	2.04	0.11
						2" Ice			
Sector Mount [SM 502-3]	C	None		0.0000	65.00	No Ice	29.82	29.82	1.67
						1/2"	42.21	42.21	2.27
						Ice	54.43	54.43	3.05
						1" Ice	78.49	78.49	5.18
						2" Ice			
***									
GPS_A	C	From Leg	3.00	0.0000	59.00	No Ice	0.26	0.26	0.00
			0.00			1/2"	0.32	0.32	0.00
			1.00			Ice	0.39	0.39	0.01
						1" Ice	0.56	0.56	0.02
						2" Ice			
Side Arm Mount [SO 305-1]	C	From Leg	1.50	0.0000	59.00	No Ice	0.53	1.52	0.03
			0.00			1/2"	0.78	2.07	0.04
			0.00			Ice	1.06	2.66	0.06
						1" Ice	1.73	3.91	0.13
						2" Ice			
***									
8225	B	From Leg	2.00	0.0000	34.00	No Ice	0.89	0.89	0.00
			0.00			1/2"	1.06	1.06	0.01
			1.00			Ice	1.23	1.23	0.02
						1" Ice	1.59	1.59	0.05
						2" Ice			
***									

## 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

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

### Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
T1	92 - 80	Leg	Max Tension	23	6.35	-0.09	0.01
			Max. Compression	2	-9.38	0.10	0.02
			Max. Mx	2	-2.47	-0.64	0.09
			Max. My	24	-1.50	-0.01	-0.80
			Max. Vy	2	-1.17	0.52	0.09
			Max. Vx	12	1.34	0.01	-0.53
		Diagonal	Max Tension	14	2.37	0.00	0.00
			Max. Compression	2	-2.37	0.00	0.00
			Max. Mx	36	0.27	0.01	0.00
			Max. My	2	-2.37	-0.00	0.00
			Max. Vy	36	-0.02	0.01	0.00
			Max. Vx	2	-0.00	-0.00	0.00
		Top Girt	Max Tension	14	0.35	0.00	0.00
			Max. Compression	2	-0.35	0.00	0.00
			Max. Mx	37	0.08	-0.05	0.00
			Max. My	38	-0.01	0.00	0.00
Max. Vy	37		-0.03	0.00	0.00		
Max. Vx	38		-0.00	0.00	0.00		
T2	80 - 75	Leg	Max Tension	23	10.10	-0.05	0.00
			Max. Compression	2	-13.22	0.05	0.02
			Max. Mx	2	-13.14	0.10	0.02
			Max. My	24	-1.61	-0.00	0.10
			Max. Vy	10	0.04	0.10	-0.01
			Max. Vx	20	0.06	-0.00	-0.10
		Diagonal	Max Tension	15	2.37	0.00	0.00
			Max. Compression	2	-2.53	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
T3	75 - 70	Leg	Max. Mx	36	0.18	0.02	0.00
			Max. My	2	-2.53	-0.00	0.00
			Max. Vy	37	0.02	0.02	0.00
			Max. Vx	33	0.00	0.00	0.00
			Max Tension	23	14.61	-0.01	-0.01
			Max. Compression	2	-18.12	-0.00	0.00
			Max. Mx	10	-17.92	0.06	-0.00
			Max. My	24	-1.78	-0.00	0.10
			Max. Vy	10	0.04	0.06	-0.00
			Max. Vx	12	-0.05	-0.00	-0.10
			Max Tension	2	2.47	0.00	0.00
			Max. Compression	15	-2.35	0.00	0.00
			Max. Mx	35	0.58	0.03	-0.00
			Max. My	38	-0.27	0.02	0.00
T4	70 - 65	Leg	Max. Vy	37	0.03	0.02	-0.00
			Max. Vx	38	-0.00	0.00	0.00
			Max Tension	23	18.53	-0.10	0.01
			Max. Compression	2	-22.05	0.12	0.02
			Max. Mx	10	-22.02	0.13	-0.01
			Max. My	20	-2.22	-0.01	-0.05
			Max. Vy	10	-0.05	0.13	-0.01
			Max. Vx	20	-0.05	-0.01	-0.05
			Max Tension	15	2.40	0.00	0.00
			Max. Compression	2	-2.54	0.00	0.00
			Max. Mx	35	0.40	0.02	0.00
			Max. My	38	0.43	0.02	0.00
			Max. Vy	36	0.02	0.02	-0.00
			Max. Vx	33	0.00	0.00	0.00
T5	65 - 60	Leg	Max Tension	23	23.04	-0.10	0.01
			Max. Compression	10	-29.15	-0.06	-0.00
			Max. Mx	10	-29.14	0.13	-0.01
			Max. My	24	-3.21	-0.03	0.15
			Max. Vy	10	0.08	0.13	-0.01
			Max. Vx	4	0.07	-0.02	-0.15
			Max Tension	8	3.39	0.00	0.00
			Max. Compression	8	-3.49	0.00	0.00
			Max. Mx	36	0.64	0.03	-0.00
			Max. My	14	-3.19	0.00	-0.01
			Max. Vy	37	0.03	0.03	0.00
			Max. Vx	14	0.00	0.00	0.00
			Max Tension	31	0.27	0.00	0.00
			Max. Compression	6	-0.19	0.00	0.00
T6	60 - 40	Leg	Max. Mx	35	0.24	-0.10	0.00
			Max. My	38	0.20	0.00	0.00
			Max. Vy	35	0.05	0.00	0.00
			Max. Vx	38	-0.00	0.00	0.00
			Max Tension	23	44.94	0.14	-0.00
			Max. Compression	10	-53.48	-0.23	0.00
			Max. Mx	10	-53.46	0.33	-0.00
			Max. My	24	-3.77	-0.04	0.21
			Max. Vy	10	-0.19	0.33	-0.00
			Max. Vx	20	-0.11	-0.04	-0.21
			Max Tension	9	3.94	0.02	-0.00
			Max. Compression	10	-4.11	0.00	0.00
			Max. Mx	35	1.11	0.04	0.00
			Max. My	2	-3.92	-0.00	0.01
T7	40 - 20	Leg	Max. Vy	37	0.03	0.04	0.00
			Max. Vx	38	-0.00	0.00	0.00
			Max Tension	20	0.23	0.02	-0.00
			Max. Compression	25	-0.23	0.01	0.01
			Max. Mx	38	-0.00	0.04	0.01
			Max. My	36	0.01	0.03	0.01
			Max. Vy	38	-0.04	0.04	0.01
			Max. Vx	38	-0.00	0.00	0.00
			Max Tension	23	66.46	0.24	-0.00
			Max. Compression	10	-77.94	-0.42	0.00
			Max. Mx	10	-77.91	0.56	-0.00
			Max. My	24	-5.04	-0.07	0.39

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft	
T8	20 - 13.3333	Diagonal	Max. Vy	10	0.30	0.56	-0.00	
			Max. Vx	24	-0.17	-0.07	0.39	
			Max Tension	9	4.29	0.03	0.00	
			Max. Compression	10	-4.47	0.00	0.00	
			Max. Mx	31	0.86	0.08	0.01	
			Max. My	31	-1.75	0.07	-0.01	
		Secondary Horizontal	Max. Vy	37	0.05	0.08	0.01	
			Max. Vx	37	0.00	0.00	0.00	
			Max Tension	24	0.38	0.02	-0.00	
			Max. Compression	25	-0.37	0.02	0.00	
			Max. Mx	30	0.01	0.06	0.01	
			Max. My	36	-0.06	0.06	0.01	
		Leg	Max. Vy	30	0.04	0.06	0.01	
			Max. Vx	38	-0.00	0.00	0.00	
			Max Tension	23	73.32	0.28	-0.00	
			Max. Compression	10	-85.81	-0.21	-0.01	
			Max. Mx	35	-36.35	-0.77	0.00	
			Max. My	24	-5.24	-0.07	0.39	
			Max. Vy	31	0.34	0.41	0.00	
			Max. Vx	24	0.16	-0.07	0.39	
			Diagonal	Max Tension	13	4.39	0.03	-0.00
				Max. Compression	10	-4.71	0.00	0.00
				Max. Mx	31	1.57	0.05	0.01
				Max. My	38	1.60	0.05	0.01
Max. Vy	37	0.04		0.05	0.01			
Max. Vx	38	-0.00		0.00	0.00			
Secondary Horizontal	Max Tension	24	0.37	0.02	0.00			
	Max. Compression	25	-0.35	0.01	0.00			
	Max. Mx	38	0.23	0.04	0.01			
	Max. My	36	0.07	0.04	0.01			
	Max. Vy	38	-0.04	0.04	0.01			
	Max. Vx	38	-0.00	0.00	0.00			
T9	13.3333 - 6.66667	Leg	Max Tension	23	80.18	0.15	0.01	
			Max. Compression	10	-93.88	-0.59	0.00	
			Max. Mx	35	-38.06	-0.77	0.00	
			Max. My	24	-5.78	-0.09	0.67	
			Max. Vy	10	0.40	0.73	0.00	
			Max. Vx	24	-0.26	-0.09	0.67	
		Diagonal	Max Tension	13	4.48	0.06	-0.00	
			Max. Compression	12	-4.74	0.00	0.00	
			Max. Mx	38	0.62	0.13	0.01	
			Max. My	37	-2.06	0.12	0.01	
			Max. Vy	37	0.06	0.13	0.01	
			Max. Vx	37	0.00	0.00	0.00	
Secondary Horizontal	Max Tension	22	0.49	0.00	0.00			
	Max. Compression	25	-0.47	0.02	0.00			
	Max. Mx	38	-0.08	0.07	0.01			
	Max. My	37	-0.05	0.07	0.01			
	Max. Vy	38	-0.04	0.07	0.01			
	Max. Vx	37	0.00	0.00	0.00			
T10	6.66667 - 0	Leg	Max Tension	23	86.53	0.39	-0.00	
			Max. Compression	10	-101.55	0.00	0.00	
			Max. Mx	37	8.33	0.68	0.00	
			Max. My	24	-6.16	-0.09	0.67	
			Max. Vy	10	-0.40	0.67	-0.00	
			Max. Vx	24	0.24	-0.09	0.67	
		Diagonal	Max Tension	13	4.65	0.06	-0.01	
			Max. Compression	10	-5.15	0.00	0.00	
			Max. Mx	24	2.25	0.09	-0.01	
			Max. My	38	2.22	0.05	0.01	
			Max. Vy	38	0.05	0.05	0.01	
			Max. Vx	38	-0.00	0.00	0.00	
Secondary Horizontal	Max Tension	24	0.38	0.03	0.00			
	Max. Compression	25	-0.37	0.02	0.00			

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Mx	37	-0.00	0.04	0.00
			Max. My	24	-0.36	0.02	0.00
			Max. Vy	37	-0.04	0.04	0.00
			Max. Vx	38	-0.00	0.00	0.00

### Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Leg C	Max. Vert	18	98.11	10.94	-6.46
	Max. H <sub>x</sub>	18	98.11	10.94	-6.46
	Max. H <sub>z</sub>	7	-81.56	-9.40	5.56
	Min. Vert	7	-81.56	-9.40	5.56
	Min. H <sub>x</sub>	7	-81.56	-9.40	5.56
Leg B	Min. H <sub>z</sub>	18	98.11	10.94	-6.46
	Max. Vert	10	105.70	-12.10	-6.83
	Max. H <sub>x</sub>	23	-89.92	10.58	5.95
	Max. H <sub>z</sub>	25	-79.86	9.15	6.02
	Min. Vert	23	-89.92	10.58	5.95
Leg A	Min. H <sub>x</sub>	10	105.70	-12.10	-6.83
	Min. H <sub>z</sub>	10	105.70	-12.10	-6.83
	Max. Vert	2	101.30	-0.14	13.18
	Max. H <sub>x</sub>	21	5.55	1.92	0.45
	Max. H <sub>z</sub>	2	101.30	-0.14	13.18
	Min. Vert	15	-84.54	0.13	-11.41
	Min. H <sub>x</sub>	8	6.95	-1.93	0.56
	Min. H <sub>z</sub>	15	-84.54	0.13	-11.41

### Tower Mast Reaction Summary

Load Combination	Vertical K	Shear <sub>x</sub> K	Shear <sub>z</sub> K	Overturning Moment, M <sub>x</sub> kip-ft	Overturning Moment, M <sub>z</sub> kip-ft	Torque kip-ft
Dead Only	17.30	-0.00	-0.00	-2.39	2.73	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	20.76	-0.03	-21.57	-1201.33	5.75	-3.54
0.9 Dead+1.0 Wind 0 deg - No Ice	15.57	-0.03	-21.57	-1199.61	4.93	-3.53
1.2 Dead+1.0 Wind 30 deg - No Ice	20.76	9.40	-16.51	-942.65	-528.20	2.02
0.9 Dead+1.0 Wind 30 deg - No Ice	15.57	9.40	-16.51	-941.13	-528.58	2.03
1.2 Dead+1.0 Wind 60 deg - No Ice	20.76	16.80	-9.79	-562.17	-951.12	-3.01
0.9 Dead+1.0 Wind 60 deg - No Ice	15.57	16.80	-9.79	-560.97	-951.15	-3.01
1.2 Dead+1.0 Wind 90 deg - No Ice	20.76	21.49	0.03	-0.43	-1201.40	-3.70
0.9 Dead+1.0 Wind 90 deg - No Ice	15.57	21.49	0.03	0.29	-1201.22	-3.70
1.2 Dead+1.0 Wind 120 deg - No Ice	20.76	19.71	11.51	636.23	-1084.49	3.47
0.9 Dead+1.0 Wind 120 deg - No Ice	15.57	19.71	11.51	636.43	-1084.41	3.47
1.2 Dead+1.0 Wind 150 deg - No Ice	20.76	11.21	19.58	1084.54	-616.28	7.44
0.9 Dead+1.0 Wind 150 deg - No Ice	15.57	11.21	19.58	1084.37	-616.59	7.44
1.2 Dead+1.0 Wind 180 deg - No Ice	20.76	0.03	20.29	1142.37	0.84	3.54

Load Combination	Vertical K	Shear <sub>x</sub> K	Shear <sub>z</sub> K	Overturning Moment, M <sub>x</sub> kip-ft	Overturning Moment, M <sub>z</sub> kip-ft	Torque kip-ft
0.9 Dead+1.0 Wind 180 deg - No Ice	15.57	0.03	20.29	1142.14	0.02	3.53
1.2 Dead+1.0 Wind 210 deg - No Ice	20.76	-9.40	16.51	936.87	534.78	-2.02
0.9 Dead+1.0 Wind 210 deg - No Ice	15.57	-9.40	16.51	936.81	533.51	-2.03
1.2 Dead+1.0 Wind 240 deg - No Ice	20.76	-17.91	10.43	582.97	1003.76	3.01
0.9 Dead+1.0 Wind 240 deg - No Ice	15.57	-17.91	10.43	583.21	1002.11	3.01
1.2 Dead+1.0 Wind 270 deg - No Ice	20.76	-21.49	-0.03	-5.34	1207.97	3.70
0.9 Dead+1.0 Wind 270 deg - No Ice	15.57	-21.49	-0.03	-4.62	1206.14	3.70
1.2 Dead+1.0 Wind 300 deg - No Ice	20.76	-18.60	-10.87	-615.40	1045.01	-3.46
0.9 Dead+1.0 Wind 300 deg - No Ice	15.57	-18.60	-10.87	-614.16	1043.32	-3.47
1.2 Dead+1.0 Wind 330 deg - No Ice	20.76	-11.21	-19.58	-1090.30	622.88	-7.44
0.9 Dead+1.0 Wind 330 deg - No Ice	15.57	-11.21	-19.58	-1088.68	621.54	-7.44
1.2 Dead+1.0 Ice+1.0 Temp	53.60	0.00	0.00	-2.85	10.85	-0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	53.60	-0.00	-5.70	-322.32	10.88	-0.34
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	53.60	2.62	-4.58	-263.69	-137.66	0.56
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	53.60	4.61	-2.69	-156.36	-251.50	-0.17
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	53.60	5.78	0.00	-2.82	-314.47	-0.46
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	53.60	5.37	3.12	171.03	-286.71	0.86
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	53.60	2.97	5.18	287.13	-154.52	1.55
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	53.60	0.00	5.53	309.60	10.83	0.34
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	53.60	-2.62	4.58	257.99	159.37	-0.56
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	53.60	-4.76	2.77	154.18	279.29	0.17
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	53.60	-5.78	-0.00	-2.88	336.18	0.46
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	53.60	-5.22	-3.04	-173.22	302.35	-0.86
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	53.60	-2.97	-5.18	-292.82	176.23	-1.55
Dead+Wind 0 deg - Service	17.30	-0.01	-5.23	-293.03	3.33	-0.85
Dead+Wind 30 deg - Service	17.30	2.28	-4.01	-230.31	-126.16	0.50
Dead+Wind 60 deg - Service	17.30	4.08	-2.37	-138.04	-228.72	-0.73
Dead+Wind 90 deg - Service	17.30	5.21	0.01	-1.81	-289.41	-0.90
Dead+Wind 120 deg - Service	17.30	4.78	2.79	152.58	-261.05	0.83
Dead+Wind 150 deg - Service	17.30	2.72	4.75	261.30	-147.51	1.80
Dead+Wind 180 deg - Service	17.30	0.01	4.92	275.33	2.14	0.85
Dead+Wind 210 deg - Service	17.30	-2.28	4.01	225.50	131.63	-0.50
Dead+Wind 240 deg - Service	17.30	-4.34	2.53	139.67	245.36	0.73
Dead+Wind 270 deg - Service	17.30	-5.21	-0.01	-3.00	294.88	0.90
Dead+Wind 300 deg - Service	17.30	-4.51	-2.64	-150.94	255.36	-0.83
Dead+Wind 330 deg - Service	17.30	-2.72	-4.75	-266.10	152.99	-1.80



## 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	-17.30	0.00	0.00	17.30	0.00	0.000%
2	-0.03	-20.76	-21.57	0.03	20.76	21.57	0.005%
3	-0.03	-15.57	-21.57	0.03	15.57	21.57	0.004%
4	9.40	-20.76	-16.52	-9.40	20.76	16.51	0.005%
5	9.40	-15.57	-16.52	-9.40	15.57	16.51	0.005%
6	16.80	-20.76	-9.79	-16.80	20.76	9.79	0.006%
7	16.80	-15.57	-9.79	-16.80	15.57	9.79	0.005%
8	21.49	-20.76	0.03	-21.49	20.76	-0.03	0.005%
9	21.49	-15.57	0.03	-21.49	15.57	-0.03	0.005%
10	19.71	-20.76	11.51	-19.71	20.76	-11.51	0.005%
11	19.71	-15.57	11.51	-19.71	15.57	-11.51	0.004%
12	11.21	-20.76	19.58	-11.21	20.76	-19.58	0.005%
13	11.21	-15.57	19.58	-11.21	15.57	-19.58	0.005%
14	0.03	-20.76	20.29	-0.03	20.76	-20.29	0.006%
15	0.03	-15.57	20.29	-0.03	15.57	-20.29	0.005%
16	-9.40	-20.76	16.52	9.40	20.76	-16.51	0.005%
17	-9.40	-15.57	16.52	9.40	15.57	-16.51	0.005%
18	-17.91	-20.76	10.43	17.91	20.76	-10.43	0.005%
19	-17.91	-15.57	10.43	17.91	15.57	-10.43	0.004%
20	-21.49	-20.76	-0.03	21.49	20.76	0.03	0.006%
21	-21.49	-15.57	-0.03	21.49	15.57	0.03	0.005%
22	-18.60	-20.76	-10.87	18.60	20.76	10.87	0.006%
23	-18.60	-15.57	-10.87	18.60	15.57	10.87	0.005%
24	-11.21	-20.76	-19.58	11.21	20.76	19.58	0.006%
25	-11.21	-15.57	-19.58	11.21	15.57	19.58	0.005%
26	0.00	-53.60	0.00	-0.00	53.60	-0.00	0.000%
27	-0.00	-53.60	-5.70	0.00	53.60	5.70	0.002%
28	2.62	-53.60	-4.58	-2.62	53.60	4.58	0.002%
29	4.61	-53.60	-2.69	-4.61	53.60	2.69	0.002%
30	5.78	-53.60	0.00	-5.78	53.60	-0.00	0.002%
31	5.37	-53.60	3.12	-5.37	53.60	-3.12	0.002%
32	2.97	-53.60	5.19	-2.97	53.60	-5.18	0.002%
33	0.00	-53.60	5.53	-0.00	53.60	-5.53	0.002%
34	-2.62	-53.60	4.58	2.62	53.60	-4.58	0.002%
35	-4.76	-53.60	2.77	4.76	53.60	-2.77	0.002%
36	-5.78	-53.60	-0.00	5.78	53.60	0.00	0.002%
37	-5.22	-53.60	-3.04	5.22	53.60	3.04	0.002%
38	-2.97	-53.60	-5.19	2.97	53.60	5.18	0.002%
39	-0.01	-17.30	-5.23	0.01	17.30	5.23	0.002%
40	2.28	-17.30	-4.01	-2.28	17.30	4.01	0.002%
41	4.08	-17.30	-2.38	-4.08	17.30	2.37	0.002%
42	5.21	-17.30	0.01	-5.21	17.30	-0.01	0.002%
43	4.78	-17.30	2.79	-4.78	17.30	-2.79	0.002%
44	2.72	-17.30	4.75	-2.72	17.30	-4.75	0.002%
45	0.01	-17.30	4.92	-0.01	17.30	-4.92	0.002%
46	-2.28	-17.30	4.01	2.28	17.30	-4.01	0.002%
47	-4.35	-17.30	2.53	4.34	17.30	-2.53	0.002%
48	-5.21	-17.30	-0.01	5.21	17.30	0.01	0.002%
49	-4.51	-17.30	-2.64	4.51	17.30	2.64	0.002%
50	-2.72	-17.30	-4.75	2.72	17.30	4.75	0.002%

## Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	4	0.00000001	0.00025023
3	Yes	4	0.00000001	0.00018449
4	Yes	4	0.00000001	0.00026030
5	Yes	4	0.00000001	0.00019464
6	Yes	4	0.00000001	0.00026841
7	Yes	4	0.00000001	0.00020278
8	Yes	4	0.00000001	0.00025915

9	Yes	4	0.0000001	0.00019366
10	Yes	4	0.0000001	0.00024884
11	Yes	4	0.0000001	0.00018337
12	Yes	4	0.0000001	0.00025822
13	Yes	4	0.0000001	0.00019277
14	Yes	4	0.0000001	0.00026823
15	Yes	4	0.0000001	0.00020267
16	Yes	4	0.0000001	0.00026070
17	Yes	4	0.0000001	0.00019511
18	Yes	4	0.0000001	0.00025068
19	Yes	4	0.0000001	0.00018495
20	Yes	4	0.0000001	0.00025954
21	Yes	4	0.0000001	0.00019392
22	Yes	4	0.0000001	0.00026809
23	Yes	4	0.0000001	0.00020247
24	Yes	4	0.0000001	0.00025810
25	Yes	4	0.0000001	0.00019248
26	Yes	4	0.0000001	0.00004176
27	Yes	4	0.0000001	0.00047958
28	Yes	4	0.0000001	0.00045538
29	Yes	4	0.0000001	0.00044923
30	Yes	4	0.0000001	0.00045726
31	Yes	4	0.0000001	0.00046953
32	Yes	4	0.0000001	0.00047033
33	Yes	4	0.0000001	0.00046698
34	Yes	4	0.0000001	0.00046784
35	Yes	4	0.0000001	0.00048373
36	Yes	4	0.0000001	0.00049936
37	Yes	4	0.0000001	0.00050837
38	Yes	4	0.0000001	0.00049939
39	Yes	4	0.0000001	0.00020122
40	Yes	4	0.0000001	0.00020103
41	Yes	4	0.0000001	0.00020304
42	Yes	4	0.0000001	0.00020204
43	Yes	4	0.0000001	0.00020006
44	Yes	4	0.0000001	0.00020228
45	Yes	4	0.0000001	0.00020326
46	Yes	4	0.0000001	0.00020053
47	Yes	4	0.0000001	0.00020026
48	Yes	4	0.0000001	0.00020353
49	Yes	4	0.0000001	0.00020580
50	Yes	4	0.0000001	0.00020405

### Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	92 - 80	1.379	50	0.1197	0.0221
T2	80 - 75	1.071	50	0.1138	0.0155
T3	75 - 70	0.947	50	0.1098	0.0126
T4	70 - 65	0.833	50	0.1042	0.0113
T5	65 - 60	0.722	50	0.0980	0.0088
T6	60 - 40	0.618	50	0.0902	0.0078
T7	40 - 20	0.285	50	0.0588	0.0043
T8	20 - 13.3333	0.077	50	0.0285	0.0016
T9	13.3333 - 6.66667	0.036	50	0.0195	0.0008
T10	6.66667 - 0	0.010	43	0.0098	0.0004

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

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
91.00	SD210D-SF2P4SNM	50	1.353	0.1193	0.0216	258595
89.00	(2) JAHH-65B-R3B	50	1.301	0.1185	0.0206	258595
65.00	7770.00 w/ Mount Pipe	50	0.722	0.0980	0.0088	42440
59.00	GPS_A	50	0.598	0.0886	0.0077	35480
34.00	8225	50	0.209	0.0494	0.0034	38580

### Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	92 - 80	5.613	24	0.4843	0.0916
T2	80 - 75	4.365	24	0.4613	0.0640
T3	75 - 70	3.865	24	0.4453	0.0521
T4	70 - 65	3.400	24	0.4232	0.0470
T5	65 - 60	2.948	24	0.3983	0.0367
T6	60 - 40	2.525	24	0.3672	0.0323
T7	40 - 20	1.167	10	0.2399	0.0179
T8	20 - 13.3333	0.319	10	0.1166	0.0065
T9	13.3333 - 6.66667	0.150	10	0.0796	0.0032
T10	6.66667 - 0	0.041	11	0.0402	0.0016

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

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
91.00	SD210D-SF2P4SNM	24	5.509	0.4828	0.0895	68334
89.00	(2) JAHH-65B-R3B	24	5.299	0.4796	0.0852	68334
65.00	7770.00 w/ Mount Pipe	24	2.948	0.3983	0.0367	10496
59.00	GPS_A	24	2.444	0.3607	0.0318	8810
34.00	8225	10	0.859	0.2016	0.0141	9470

### Bolt Design Data

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load Allowable	Allowable Ratio	Criteria
T1	92	Leg	A325X	0.6250	4	1.59	20.34	0.078	1.05	Bolt Tension
		Diagonal	A325X	0.5000	1	2.37	3.48	0.680	1.05	Member Block Shear
		Top Girt	A325X	0.5000	1	0.35	4.13	0.086	1.05	Member Bearing
T2	80	Diagonal	A325X	0.5000	1	2.37	4.13	0.573	1.05	Member Bearing
T3	75	Diagonal	A325X	0.5000	1	2.47	7.18	0.344	1.05	Gusset Bearing
T4	70	Diagonal	A325X	0.5000	1	2.40	4.13	0.581	1.05	Member Bearing
T5	65	Leg	A325X	0.6250	4	5.76	20.34	0.283	1.05	Bolt Tension
		Diagonal	A325X	0.5000	1	3.39	7.18	0.473	1.05	Gusset Bearing
		Top Girt	A325X	0.5000	1	0.51	6.20	0.082	1.05	Member Bearing
T6	60	Leg	A325X	0.7500	4	11.22	30.10	0.373	1.05	Bolt Tension
		Diagonal	A325N	0.5000	1	3.94	7.18	0.549	1.05	Gusset Bearing

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load Allowable	Allowable Ratio	Criteria
T7	40	Secondary Horizontal	A325N	0.5000	1	0.93	7.18	0.129	1.05	Gusset Bearing
		Leg	A325X	0.8750	4	16.60	41.56	0.399	1.05	Bolt Tension
		Diagonal	A325X	0.5000	1	4.29	6.20	0.692	1.05	Member Bearing
T8	20	Secondary Horizontal	A325X	0.6250	1	1.35	6.86	0.197	1.05	Gusset Bearing
		Diagonal	A325X	0.5000	1	4.39	6.20	0.708	1.05	Member Bearing
T9	13.3333	Secondary Horizontal	A325X	0.6250	1	1.49	6.86	0.217	1.05	Gusset Bearing
		Diagonal	A325X	0.5000	1	4.48	7.18	0.624	1.05	Gusset Bearing
T10	6.66667	Secondary Horizontal	A325X	0.6250	1	1.63	6.86	0.237	1.05	Gusset Bearing
		Diagonal	A325X	0.5000	1	4.65	7.18	0.648	1.05	Gusset Bearing
		Secondary Horizontal	A325X	0.6250	1	1.76	6.86	0.257	1.05	Gusset Bearing

### Compression Checks

### Leg Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio P <sub>u</sub> / φP <sub>n</sub>
T1	92 - 80	ROHN 2 STD	12.00	4.00	61.0	1.0745	-9.38	36.84	0.255 <sup>1</sup>
T2	80 - 75	ROHN 2.5 STD	5.01	5.01	63.4 K=1.00	1.7040	-13.22	57.14	0.231 <sup>1</sup>
T3	75 - 70	ROHN 2.5 STD	5.01	5.01	63.4 K=1.00	1.7040	-18.12	57.14	0.317 <sup>1</sup>
T4	70 - 65	ROHN 2.5 STD	5.01	5.01	63.4 K=1.00	1.7040	-22.05	57.14	0.386 <sup>1</sup>
T5	65 - 60	ROHN 2.5 STD	5.01	5.01	63.4 K=1.00	1.7040	-29.15	57.14	0.510 <sup>1</sup>
T6	60 - 40	ROHN 2.5 X-STR	20.03	3.45	44.8 K=1.00	2.2535	-53.48	87.57	0.611 <sup>1</sup>
T7	40 - 20	ROHN 3 X-STR	20.03	3.43	36.2 K=1.00	3.0159	-77.94	123.30	0.632 <sup>1</sup>
T8	20 - 13.3333	ROHN 3.5 X-STR	6.68	3.43	31.5 K=1.00	3.6784	-85.81	153.96	0.557 <sup>1</sup>
T9	13.3333 - 6.66667	ROHN 3.5 X-STR	6.68	3.42	31.4 K=1.00	3.6784	-93.88	153.99	0.610 <sup>1</sup>
T10	6.66667 - 0	ROHN 3.5 X-STR	6.68	3.42	31.4 K=1.00	3.6784	-101.55	154.01	0.659 <sup>1</sup>

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

### Diagonal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio P <sub>u</sub> / φP <sub>n</sub>
T1	92 - 80	L1 1/2x1 1/2x1/8	7.67	3.62	146.6 K=1.00	0.3594	-2.37	4.79	0.496 <sup>1</sup>
T2	80 - 75	L1 3/4x1 3/4x1/8	8.45	4.13	142.8 K=1.00	0.4219	-2.53	5.92	0.427 <sup>1</sup>
T3	75 - 70	L2x2x1/4	8.86	4.31	132.3	0.9380	-2.35	15.34	0.153 <sup>1</sup>

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio $\frac{P_u}{\phi P_n}$
T4	70 - 65	L1 3/4x1 3/4x1/8	9.28	4.54	K=1.00 157.1	0.4219	-2.54	4.89	0.519 <sup>1</sup>
T5	65 - 60	L2x2x1/4	9.70	4.73	K=1.00 145.2	0.9380	-3.49	12.73	0.274 <sup>1</sup>
T6	60 - 40	L2x2x1/4	12.24	6.08	K=1.00 186.5	0.9380	-4.11	7.72	0.532 <sup>1</sup>
T7	40 - 20	L2 1/2x2 1/2x3/16	13.99	6.92	K=1.00 167.7	0.9020	-4.47	9.18	0.487 <sup>1</sup>
T8	20 - 13.3333	L2 1/2x2 1/2x3/16	14.59	7.20	K=1.00 174.5	0.9020	-4.71	8.48	0.555 <sup>1</sup>
T9	13.3333 - 6.66667	L2 1/2x2 1/2x3/8	15.21	7.48	K=1.00 184.4	1.7300	-4.74	14.56	0.326 <sup>1</sup>
T10	6.66667 - 0	L2 1/2x2 1/2x3/8	15.83	7.79	K=1.00 192.1	1.7300	-5.15	13.42	0.383 <sup>1</sup>

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

### Secondary Horizontal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio $\frac{P_u}{\phi P_n}$
T6	60 - 40	L2 1/2x2 1/2x1/4	10.25	4.86	119.4	1.1900	-0.93	23.64	0.039 <sup>1</sup>
T7	40 - 20	L2x2x1/4	12.29	5.85	K=1.01 179.6	0.9380	-1.35	8.32	0.162 <sup>1</sup>
T8	20 - 13.3333	L2x2x1/4	12.97	6.17	K=1.00 189.4	0.9380	-1.49	7.48	0.199 <sup>1</sup>
T9	13.3333 - 6.66667	L2x2x1/4	13.66	6.52	K=1.00 200.0	0.9380	-1.63	6.71	0.243 <sup>1</sup>
T10	6.66667 - 0	L2x2x1/4	14.35	6.86	K=1.00 210.6	0.9380	-1.76	6.06	0.291 <sup>1</sup>

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

### Top Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio $\frac{P_u}{\phi P_n}$
T1	92 - 80	L2x2x1/8	6.52	6.11	184.6	0.4844	-0.35	4.07	0.086 <sup>1</sup>
T5	65 - 60	L2 1/2x2 1/2x3/16	8.06	7.61	K=1.00 184.6 K=1.00	0.9020	-0.51	7.58	0.067 <sup>1</sup>

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

### Tension Checks

### Leg Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio $\frac{P_u}{\phi P_n}$
T1	92 - 80	ROHN 2 STD	12.00	4.00	61.0	1.0745	6.35	48.35	0.131 <sup>1</sup>

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio P <sub>u</sub> / φP <sub>n</sub>
T2	80 - 75	ROHN 2.5 STD	5.01	5.01	63.4	1.7040	10.10	76.68	0.132 <sup>1</sup>
T3	75 - 70	ROHN 2.5 STD	5.01	5.01	63.4	1.7040	14.61	76.68	0.191 <sup>1</sup>
T4	70 - 65	ROHN 2.5 STD	5.01	5.01	63.4	1.7040	18.53	76.68	0.242 <sup>1</sup>
T5	65 - 60	ROHN 2.5 STD	5.01	5.01	63.4	1.7040	23.05	76.68	0.301 <sup>1</sup>
T6	60 - 40	ROHN 2.5 X-STR	20.03	3.23	41.9	2.2535	44.94	101.41	0.443 <sup>1</sup>
T7	40 - 20	ROHN 3 X-STR	20.03	3.25	34.3	3.0159	66.46	135.72	0.490 <sup>1</sup>
T8	20 - 13.3333	ROHN 3.5 X-STR	6.68	3.25	29.9	3.6784	73.32	165.53	0.443 <sup>1</sup>
T9	13.3333 - 6.66667	ROHN 3.5 X-STR	6.68	3.26	29.9	3.6784	80.18	165.53	0.484 <sup>1</sup>
T10	6.66667 - 0	ROHN 3.5 X-STR	6.68	3.26	29.9	3.6784	86.53	165.53	0.523 <sup>1</sup>

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

### Diagonal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio P <sub>u</sub> / φP <sub>n</sub>
T1	92 - 80	L1 1/2x1 1/2x1/8	7.67	3.62	96.0	0.2109	2.37	9.18	0.258 <sup>1</sup>
T2	80 - 75	L1 3/4x1 3/4x1/8	8.45	4.13	93.1	0.2578	2.37	11.21	0.211 <sup>1</sup>
T3	75 - 70	L2x2x1/4	8.86	4.31	87.4	0.5863	2.47	25.50	0.097 <sup>1</sup>
T4	70 - 65	L1 3/4x1 3/4x1/8	9.28	4.54	102.1	0.2578	2.40	11.21	0.214 <sup>1</sup>
T5	65 - 60	L2x2x1/4	9.70	4.73	95.7	0.5863	3.39	25.50	0.133 <sup>1</sup>
T6	60 - 40	L2x2x1/4	12.24	6.08	121.8	0.5863	3.94	25.50	0.154 <sup>1</sup>
T7	40 - 20	L2 1/2x2 1/2x3/16	13.99	6.92	108.3	0.5886	4.29	25.60	0.168 <sup>1</sup>
T8	20 - 13.3333	L2 1/2x2 1/2x3/16	14.59	7.20	112.6	0.5886	4.39	25.60	0.171 <sup>1</sup>
T9	13.3333 - 6.66667	L2 1/2x2 1/2x3/8	15.21	7.48	121.3	1.1217	4.48	48.79	0.092 <sup>1</sup>
T10	6.66667 - 0	L2 1/2x2 1/2x3/8	15.83	7.79	126.2	1.1217	4.65	48.79	0.095 <sup>1</sup>

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

### Secondary Horizontal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio P <sub>u</sub> / φP <sub>n</sub>
T6	60 - 40	L2 1/2x2 1/2x1/4	9.57	4.52	145.6	0.7753	0.93	33.73	0.028 <sup>1</sup>
T7	40 - 20	L2x2x1/4	12.29	5.85	236.4	0.5629	1.35	24.49	0.055 <sup>1</sup>
T8	20 - 13.3333	L2x2x1/4	12.97	6.17	249.0	0.5629	1.49	24.49	0.061 <sup>1</sup>
T9	13.3333 - 6.66667	L2x2x1/4	13.66	6.52	262.6	0.5629	1.63	24.49	0.066 <sup>1</sup>
T10	6.66667 - 0	L2x2x1/4	14.35	6.86	276.1	0.5629	1.76	24.49	0.072 <sup>1</sup>

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

### Top Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio P <sub>u</sub> / φP <sub>n</sub>
T1	92 - 80	L2x2x1/8	6.52	6.11	121.2	0.3047	0.35	13.25	0.027 <sup>1</sup>
T5	65 - 60	L2 1/2x2 1/2x3/16	8.06	7.61	120.7	0.5886	0.51	25.60	0.020 <sup>1</sup>

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

### Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	$\phi P_{allow}$ K	% Capacity	Pass Fail
T1	92 - 80	Leg	ROHN 2 STD	3	-9.38	38.68	24.3	Pass
T2	80 - 75	Leg	ROHN 2.5 STD	27	-13.22	59.99	22.0	Pass
T3	75 - 70	Leg	ROHN 2.5 STD	36	-18.12	59.99	30.2	Pass
T4	70 - 65	Leg	ROHN 2.5 STD	45	-22.05	59.99	36.8	Pass
T5	65 - 60	Leg	ROHN 2.5 STD	53	-29.15	59.99	48.6	Pass
T6	60 - 40	Leg	ROHN 2.5 X-STR	65	-53.48	91.95	58.2	Pass
T7	40 - 20	Leg	ROHN 3 X-STR	95	-77.94	129.46	60.2	Pass
T8	20 - 13.3333	Leg	ROHN 3.5 X-STR	125	-85.81	161.66	53.1	Pass
T9	13.3333 - 6.66667	Leg	ROHN 3.5 X-STR	137	-93.88	161.69	58.1	Pass
T10	6.66667 - 0	Leg	ROHN 3.5 X-STR	149	-101.55	161.71	62.8	Pass
T1	92 - 80	Diagonal	L1 1/2x1 1/2x1/8	17	-2.37	5.03	47.2	Pass
T2	80 - 75	Diagonal	L1 3/4x1 3/4x1/8	32	-2.53	6.21	68.0 (b) 40.7	Pass
T3	75 - 70	Diagonal	L2x2x1/4	42	-2.35	16.10	57.3 (b) 14.6	Pass
T4	70 - 65	Diagonal	L1 3/4x1 3/4x1/8	50	-2.54	5.14	34.4 (b) 49.5	Pass
T5	65 - 60	Diagonal	L2x2x1/4	59	-3.49	13.37	58.1 (b) 26.1	Pass
T6	60 - 40	Diagonal	L2x2x1/4	68	-4.11	8.11	47.3 (b) 50.7	Pass
T7	40 - 20	Diagonal	L2 1/2x2 1/2x3/16	98	-4.47	9.64	54.9 (b) 46.4	Pass
T8	20 - 13.3333	Diagonal	L2 1/2x2 1/2x3/16	128	-4.71	8.90	69.2 (b) 52.9	Pass
T9	13.3333 - 6.66667	Diagonal	L2 1/2x2 1/2x3/8	141	-4.74	15.29	70.8 (b) 31.0	Pass
T10	6.66667 - 0	Diagonal	L2 1/2x2 1/2x3/8	152	-5.15	14.09	62.4 (b) 36.5	Pass
T6	60 - 40	Secondary Horizontal	L2 1/2x2 1/2x1/4	73	-0.93	24.82	64.8 (b) 3.7	Pass
T7	40 - 20	Secondary Horizontal	L2x2x1/4	103	-1.35	8.74	12.9 (b) 15.5	Pass
T8	20 - 13.3333	Secondary Horizontal	L2x2x1/4	133	-1.49	7.86	19.7 (b) 18.9	Pass
T9	13.3333 - 6.66667	Secondary Horizontal	L2x2x1/4	145	-1.63	7.05	21.7 (b) 23.1	Pass
T10	6.66667 - 0	Secondary Horizontal	L2x2x1/4	157	-1.76	6.36	23.7 (b) 27.7	Pass
T1	92 - 80	Top Girt	L2x2x1/8	4	-0.35	4.27	8.2	Pass
T5	65 - 60	Top Girt	L2 1/2x2 1/2x3/16	55	-0.51	7.96	8.6 (b) 6.4	Pass
							8.2 (b)	
							Summary	
						Leg (T10)	62.8	Pass
						Diagonal (T8)	70.8	Pass
						Secondary Horizontal (T10)	27.7	Pass
						Top Girt (T1)	8.6	Pass
						Bolt	67.4	Pass
						Checks		
						<b>RATING =</b>	<b>70.8</b>	<b>Pass</b>

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

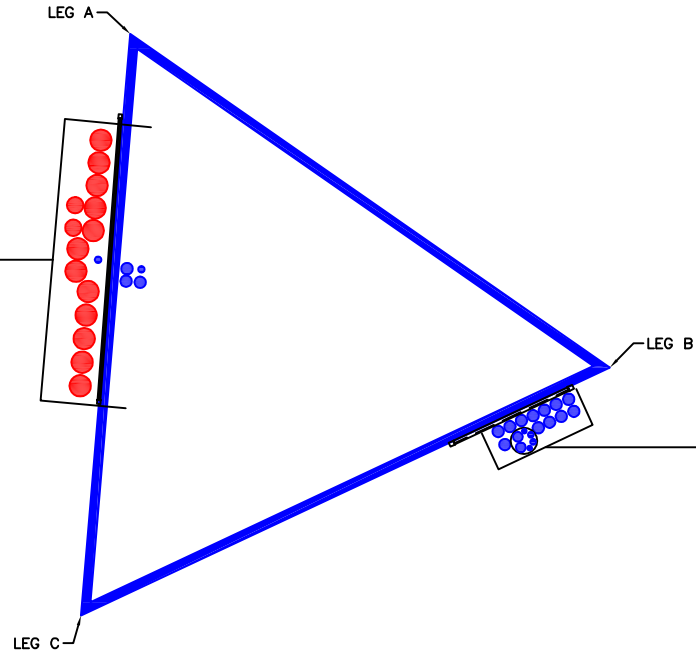




(PROPOSED EQUIPMENT CONFIGURATION)  
(2) 1-1/4" TO 89 FT LEVEL  
(12) 1-5/8" TO 89 FT LEVEL

(OTHER CONSIDERED EQUIPMENT)  
(1) 1/2" TO 34 FT LEVEL  
(3) 7/8" TO 91 FT LEVEL

(OTHER CONSIDERED EQUIPMENT)  
(1) 1/2" TO 59 FT LEVEL



(OTHER CONSIDERED EQUIPMENT—IN CONDUIT)  
(2) 3/8" TO 65 FT LEVEL  
(2) 7/16" TO 65 FT LEVEL  
(2) 3/4" TO 65 FT LEVEL  
(OTHER CONSIDERED EQUIPMENT)  
(12) 7/8" TO 65 FT LEVEL

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

# Self Support Anchor Rod Capacity



Site Info	
BU #	806386
Site Name	NHV 106 943628
Order #	552665 Rev. 0

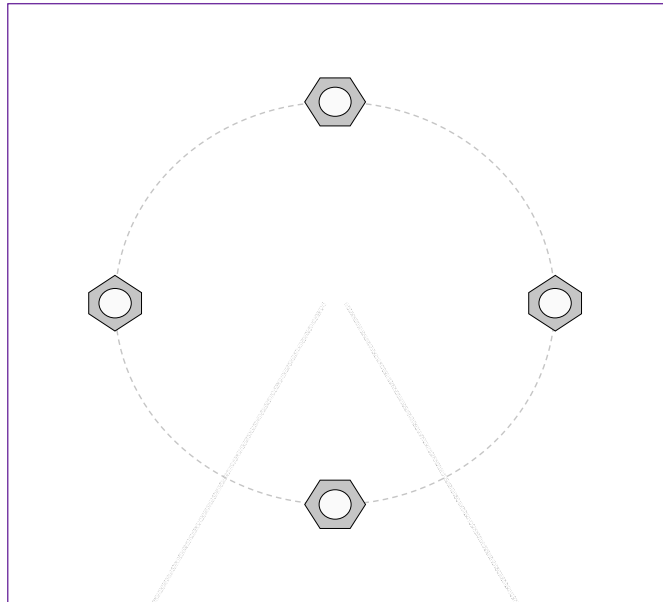
Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	Yes
$l_{ar}$ (in)	0.125

Applied Loads		
	Comp.	Uplift
Axial Force (kips)	105.70	89.92
Shear Force (kips)	13.89	12.14

\*TIA-222-H Section 15.5 Applied

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

\*Anchor Rod Eccentricity Applied



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

Anchor Rod Data	
(4) 7/8" $\phi$ bolts (A449 N; $F_y=92$ ksi, $F_u=120$ ksi)	
$l_{ar}$ (in):	0.125

Anchor Rod Summary		(units of kips, kip-in)
$Pu_t = 22.48$	$\phi Pn_t = 41.58$	<b>Stress Rating</b>
$Vu = 3.04$	$\phi Vn = 27.06$	<b>51.5%</b>
$Mu = n/a$	$\phi Mn = n/a$	<b>Pass</b>

# SST Unit Base Foundation



BU #: 806386  
 Site Name: NHV 106 943628  
 App. Number: 552665 Rev. 0

TIA-222 Revision: H

Top & Bot. Pad Rein. Different?:	<input type="checkbox"/>
Tower Centroid Offset?:	<input type="checkbox"/>
Block Foundation?:	<input checked="" type="checkbox"/>
Rectangular Pad?:	<input type="checkbox"/>

Superstructure Analysis Reactions		
Global Moment, <b>M</b> :	1257.34	ft-kips
Global Axial, <b>P</b> :	20.76	kips
Global Shear, <b>V</b> :	22.82	kips
Leg Compression, <b>P<sub>comp</sub></b> :	105.7	kips
Leg Comp. Shear, <b>V<sub>u,comp</sub></b> :	13.89	kips
Leg Uplift, <b>P<sub>uplift</sub></b> :	89.92	kips
Leg Uplift. Shear, <b>V<sub>u,uplift</sub></b> :	12.14	kips
Tower Height, <b>H</b> :	92	ft
Base Face Width, <b>BW</b> :	14.7	ft
BP Dist. Above Fdn, <b>bp<sub>dist</sub></b> :	1	in
Anchor Bolt Circle, <b>BC</b> :	7.0625	in

Foundation Analysis Checks				
	Capacity	Demand	Rating*	Check
<i>Lateral (Sliding) (kips)</i>	41.88	22.82	51.9%	Pass
<i>Bearing Pressure (ksf)</i>	22.65	3.58	15.8%	Pass
<i>Overturning (kip*ft)</i>	1714.68	1339.11	78.1%	Pass
<i>Pad Flexure (kip*ft)</i>	2862.74	420.15	14.0%	Pass
<i>Pad Shear - 1-way (kips)</i>	702.45	69.13	9.4%	Pass
<i>Pad Shear - Comp 2-way (ksi)</i>	0.164	0.020	11.4%	Pass
<i>Flexural 2-way (Comp) (kip*ft)</i>	1276.52	0.00	0.0%	Pass
<i>Pad Shear - Tension 2-way (ksi)</i>	0.164	0.017	9.7%	Pass
<i>Flexural 2-way (Tension) (kip*ft)</i>	1276.52	0.00	0.0%	Pass

\*Rating per TIA-222-H Section 15.5

Soil Rating*:	78.1%
Structural Rating*:	14.0%

Pad Properties		
Depth, <b>D</b> :	2.00	ft
Pad Width, <b>W<sub>1</sub></b> :	19.00	ft
Pad Thickness, <b>T</b> :	3.50	ft
Pad Rebar Size (Bottom dir. 2), <b>Sp<sub>2</sub></b> :	8	
Pad Rebar Quantity (Bottom dir. 2), <b>mp<sub>2</sub></b> :	22	
Pad Clear Cover, <b>cc<sub>pad</sub></b> :	3	in

Material Properties		
Rebar Grade, <b>F<sub>y</sub></b> :	60	ksi
Concrete Compressive Strength, <b>F'<sub>c</sub></b> :	3	ksi
Dry Concrete Density, <b>δ<sub>c</sub></b> :	150	pcf

Soil Properties		
Total Soil Unit Weight, <b>γ</b> :	100	pcf
Ultimate Net Bearing, <b>Q<sub>net</sub></b> :	30.000	ksf
Cohesion, <b>C<sub>u</sub></b> :		ksf
Friction Angle, <b>φ</b> :		degrees
SPT Blow Count, <b>N<sub>blows</sub></b> :		
Base Friction, <b>μ</b> :	0.3	
Neglected Depth, <b>N</b> :	3.3	ft
Foundation Bearing on Rock?	Yes	
Groundwater Depth, <b>gw</b> :	N/A	ft

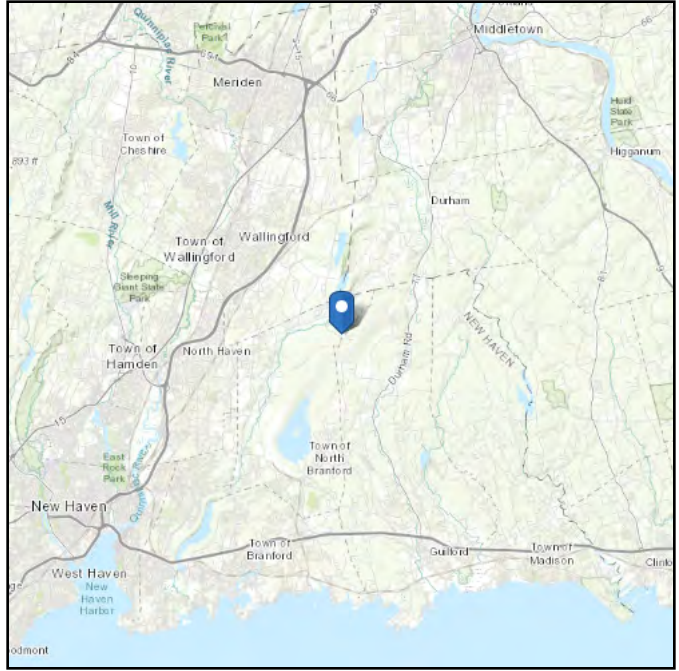
<-- Toggle between Gross and Net

# ASCE 7 Hazards Report

**Address:**  
No Address at This Location

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

**Elevation:** 583.14 ft (NAVD 88)  
**Latitude:** 41.403464  
**Longitude:** -72.744139



## Wind

### Results:

Wind Speed:	<b>126 Vmph</b>
10-year MRI	78 Vmph
25-year MRI	87 Vmph
50-year MRI	94 Vmph
100-year MRI	103 Vmph

Ultimate windspeed of 125 mph is used per New Haven County exception

**Data Source:** ASCE/SEI 7-10, Fig. 26.5-1A and Figs. CC-1–CC-4, and Section 26.5.2, incorporating errata of March 12, 2014

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

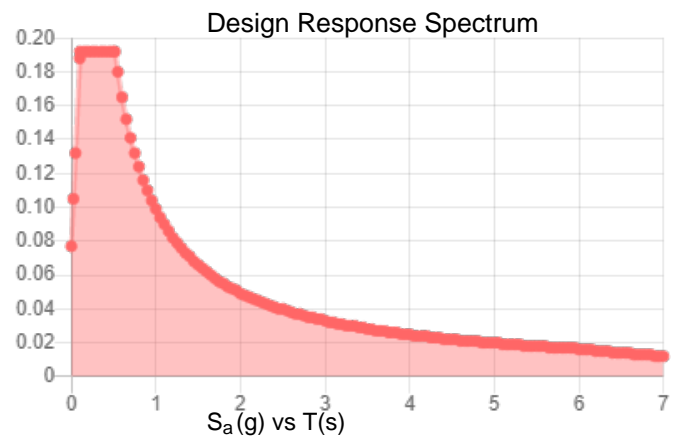
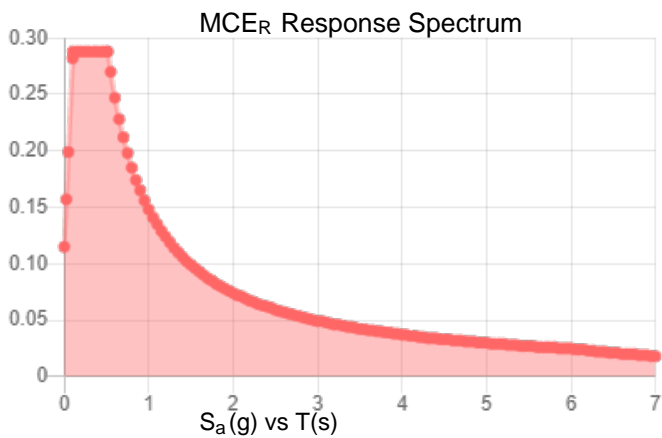
Site is in a hurricane-prone region as defined in ASCE/SEI 7-10 Section 26.2. Glazed openings need not be protected against wind-borne debris.

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

**Results:**

$S_s$ :	0.18	$S_{DS}$ :	0.192
$S_1$ :	0.062	$S_{D1}$ :	0.099
$F_a$ :	1.6	$T_L$ :	6
$F_v$ :	2.4	PGA :	0.092
$S_{MS}$ :	0.288	PGA <sub>M</sub> :	0.147
$S_{M1}$ :	0.148	F <sub>PGA</sub> :	1.6
		$I_e$ :	1

**Seismic Design Category** B



**Data Accessed:**

Tue Apr 27 2021

**Date Source:**

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

## Ice

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### 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:** Tue Apr 27 2021

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

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

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

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# Exhibit E

## **Mount Analysis**





Maser Consulting Connecticut  
2000 Midlantic Drive, Suite 100  
Mt. Laurel, NJ 08054  
(856) 797-0412  
peter.albano@colliersengineering.com

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## Antenna Mount Analysis Report and PMI Requirements

### Mount Analysis

SMART Tool Project #: 10037942  
Maser Consulting Connecticut Project #: 21777074A

March 30, 2021

#### Site Information

Site ID: 468991-VZW / N BRANFORD CT  
Site Name: N BRANFORD CT  
Carrier Name: Verizon Wireless  
Address: 83 Reeds Gap Rd  
North Branford, Connecticut 06471  
New Haven County  
Latitude: 41.403428°  
Longitude: -72.744261°

#### Structure Information

Tower Type: 94-Ft Self Support  
Mount Type: 12.67-Ft Sector Frame

FUZE ID # 16272007

#### Analysis Results

Sector Frame: 35.6% Pass

#### **\*\*\*Contractor PMI Requirements:**

***Included at the end of this MA report***

***Available & Submitted via portal at <https://pmi.vzwsmart.com>***

***Contractor - Please Review Specific Site PMI Requirements Upon Award***

***Requirements also Noted on Mount Modification Drawings***

***Requirements may also be Noted on A & E drawings***

Report Prepared By: Zachary Telljohann

## **Executive Summary:**

The objective of this report is to determine the capacity of the antenna support mount at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

This analysis is inclusive of the mount structure only and does not address the structural capacity of the supporting structure. This mounting frame was not analyzed as an anchor attachment point for fall protection. All climbing activities are required to have a fall protection plan completed by a competent person.

## **Sources of Information:**

Document Type	Remarks
<i>Radio Frequency Data Sheet (RFDS)</i>	<i>Verizon RFDS Site ID: 324528, dated March 17, 2021</i>
<i>Mount Mapping Report</i>	<i>Level-Up Towers, Site ID: 467144, dated February 20, 2021</i>

## **Analysis Criteria:**

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), $V_{ULT}$ : 120 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.00 in Risk Category: II Exposure Category: C Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, $K_e$ : 0.979
Seismic Parameters:	$S_s$ : 0.208 $S_1$ : 0.055
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph Maintenance Live Load, $L_v$ : 250 lbs. Maintenance Live Load, $L_m$ : 500 lbs.
Analysis Software:	RISA-3D (V17)

**Final Loading Configuration:**

The following equipment has been considered for the analysis of the mounts:

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
89.00	90.00	3	Samsung	MT6407-77A	Added
		4	Andrew	DB844G65ZAXY	Retained
		2	Amphenol Antel	LPA-80063-6CF-EDIN	
		6	Commscope	JAHH-65B-R3B	
		3	Commscope	CBC78T-DS-43	
		2	Raycap	RxxDC-3315-PF-48	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	

**Standard Conditions:**

1. All engineering services are performed on the basis that the information provided to Maser Consulting Connecticut and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Maser Consulting Connecticut to verify deviation will not adversely impact the analysis.
2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.

Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping and reported in the Mount Mapping Report are assumed to be corrected and documented as part of the PMI process and are not considered in the mount analysis.

The mount analysis and the mount mapping are not a condition assessment of the mount. Proper maintenance and condition assessments are still required post analysis.

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped by Maser Consulting Connecticut, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
- o Channel, Solid Round, Angle, Plate      ASTM A36 (Gr. 36)
  - o HSS (Rectangular)                              ASTM 500 (Gr. B-46)
  - o Pipe    ASTM A53 (Gr. B-35)
  - o Threaded Rod                                      F1554 (Gr. 36)
  - o Bolts     ASTM A325

**Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Maser Consulting Connecticut.**

**Analysis Results:**

<b>Component</b>	<b>Utilization %</b>	<b>Pass/Fail</b>
<i>Antenna Pipe</i>	<i>30.8%</i>	<i>Pass</i>
<i>Standoff Vertical</i>	<i>5.8%</i>	<i>Pass</i>
<i>Tieback</i>	<i>5.1%</i>	<i>Pass</i>
<i>Standoff Diagonal</i>	<i>6.6%</i>	<i>Pass</i>
<i>Standoff Plate</i>	<i>35.6%</i>	<i>Pass</i>
<i>Standoff Horizontal</i>	<i>28.9%</i>	<i>Pass</i>
<i>Horizontal mount pipe</i>	<i>30.8%</i>	<i>Pass</i>
<i>Connection Check</i>	<i>11.9%</i>	<i>Pass</i>

<b>Structure Rating – (Controlling Utilization of all Components)</b>	<b>35.6%</b>
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**Recommendation:**

The existing mounts are **SUFFICIENT** for the final loading configuration and do not require modifications.

ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other, if required. Separate review fees will apply.

**Attachments:**

1. Mount Photos
2. Mount Mapping Report (for reference only)
3. Analysis Calculations
- 4. Contractor Required Post Installation Inspection (PMI) Report Deliverables**
5. Antenna Placement Diagrams
6. TIA Adoption and Wind Speed Usage Letter







Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector		Sector B																
Sector A:	30.00	Deg	Leg A:		Deg	Ant <sub>1a</sub>	No Label	10.00	8.00	41.00		87.7292	36.00	7.00	150.00	110						
Sector B:	150.00	Deg	Leg B:		Deg	Ant <sub>1b</sub>																
Sector C:	270.00	Deg	Leg C:		Deg	Ant <sub>2a</sub>	Samsung RFV01U-D2a	15.00	8.00	15.00		86.8958	46.00	-8.00	150.00	59						
Sector D:		Deg	Leg D:		Deg	Ant <sub>2b</sub>																
Climbing Facility Information						Ant <sub>2c</sub>																
Location:	A	Deg	Sector A			Ant <sub>3a</sub>	Commscope JAHH-65	14.00	8.00	72.00		88.1458	31.00	12.00	150.00	63						
Climbing Facility	Corrosion Type:		Good condition.			Ant <sub>3b</sub>	Commscope JAHH-65	14.00	8.00	72.00		88.1458	31.00	12.00	150.00	63						
	Access:		Climbing path was unobstructed.			Ant <sub>3c</sub>	Samsung RFV01U-D2a	15.00	8.00	15.00		86.8958	46.00	-8.00	150.00	111						
	Condition:		Good condition.			Ant <sub>4a</sub>	No Label	10.00	8.00	41.00		87.7292	36.00	7.00	150.00	112						
<p>Distance from top of main platform member to lowest tip of ant./leg of carrier above. (N/A if &gt; 10 FT.)</p> <p>Distance from top of main platform member to highest tip of ant./leg of carrier below. (N/A if &gt; 10 FT.)</p> <p>Distance from top of bottom support rail to lowest tip of ant./leg of carrier above. (N/A if &gt; 10 FT.)</p> <p>Distance from top of bottom support rail to highest tip of ant./leg of carrier below. (N/A if &gt; 10 FT.)</p>						Ant <sub>4b</sub>																
						Ant <sub>4c</sub>																
						Ant <sub>5a</sub>																
						Ant <sub>5b</sub>																
						Ant <sub>5c</sub>																
						Ant on Standoff																
						Ant on Standoff																
						Ant on Tower																
						Ant on Tower																
						Sector C						Ant <sub>1a</sub>	Amphenol LPA-80063	14.00	12.00	71.00		87.8125	35.00	16.00	270.00	114
						Ant <sub>1b</sub>																
						Ant <sub>1c</sub>																
						Ant <sub>2a</sub>	Samsung RFV01U-D2a	15.00	8.00	15.00		86.8958	46.00	-8.00	270.00	86						
						Ant <sub>2b</sub>																
						Ant <sub>2c</sub>																
Ant <sub>3a</sub>	Commscope JAHH-65	14.00	8.00	72.00		88.1458	31.00	12.00	270.00	89												
Ant <sub>3b</sub>	Commscope JAHH-65	14.00	8.00	72.00		88.1458	31.00	12.00	270.00	89												
Ant <sub>3c</sub>	Samsung RFV01U-D2a	15.00	8.00	15.00		86.8958	46.00	-8.00	270.00	87												
Ant <sub>4a</sub>	Amphenol LPA-80063	14.00	12.00	71.00		87.8125	35.00	16.00	270.00	117												
Ant <sub>4b</sub>																						
Ant <sub>4c</sub>																						
Ant <sub>5a</sub>																						
Ant <sub>5b</sub>																						
Ant <sub>5c</sub>																						
Ant on Standoff																						
Ant on Standoff																						
Ant on Tower																						
Ant on Tower																						
Sector D						Ant <sub>1a</sub>																
Ant <sub>1b</sub>																						
Ant <sub>1c</sub>																						
Ant <sub>2a</sub>																						
Ant <sub>2b</sub>																						
Ant <sub>2c</sub>																						
Ant <sub>3a</sub>																						
Ant <sub>3b</sub>																						
Ant <sub>3c</sub>																						
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Ant <sub>4b</sub>																						
Ant <sub>4c</sub>																						
Ant <sub>5a</sub>																						
Ant <sub>5b</sub>																						
Ant <sub>5c</sub>																						
Ant on Standoff																						
Ant on Standoff																						
Ant on Tower																						
Ant on Tower																						

**Observed Safety and Structural Issues During the Mount Mapping**

Issue #	Description of Issue	Photo #
---------	----------------------	---------



## Antenna Mount Mapping Form (PATENT PENDING)

FCC #

<b>Tower Owner:</b>	SBA	<b>Mapping Date:</b>	2/20/2021
<b>Site Name:</b>	N BRANFORD CT	<b>Tower Type:</b>	Self Support
<b>Site Number or ID:</b>	467144	<b>Tower Height (Ft.):</b>	94
<b>Mapping Contractor:</b>	Level-Up Towers	<b>Mount Elevation (Ft.):</b>	90

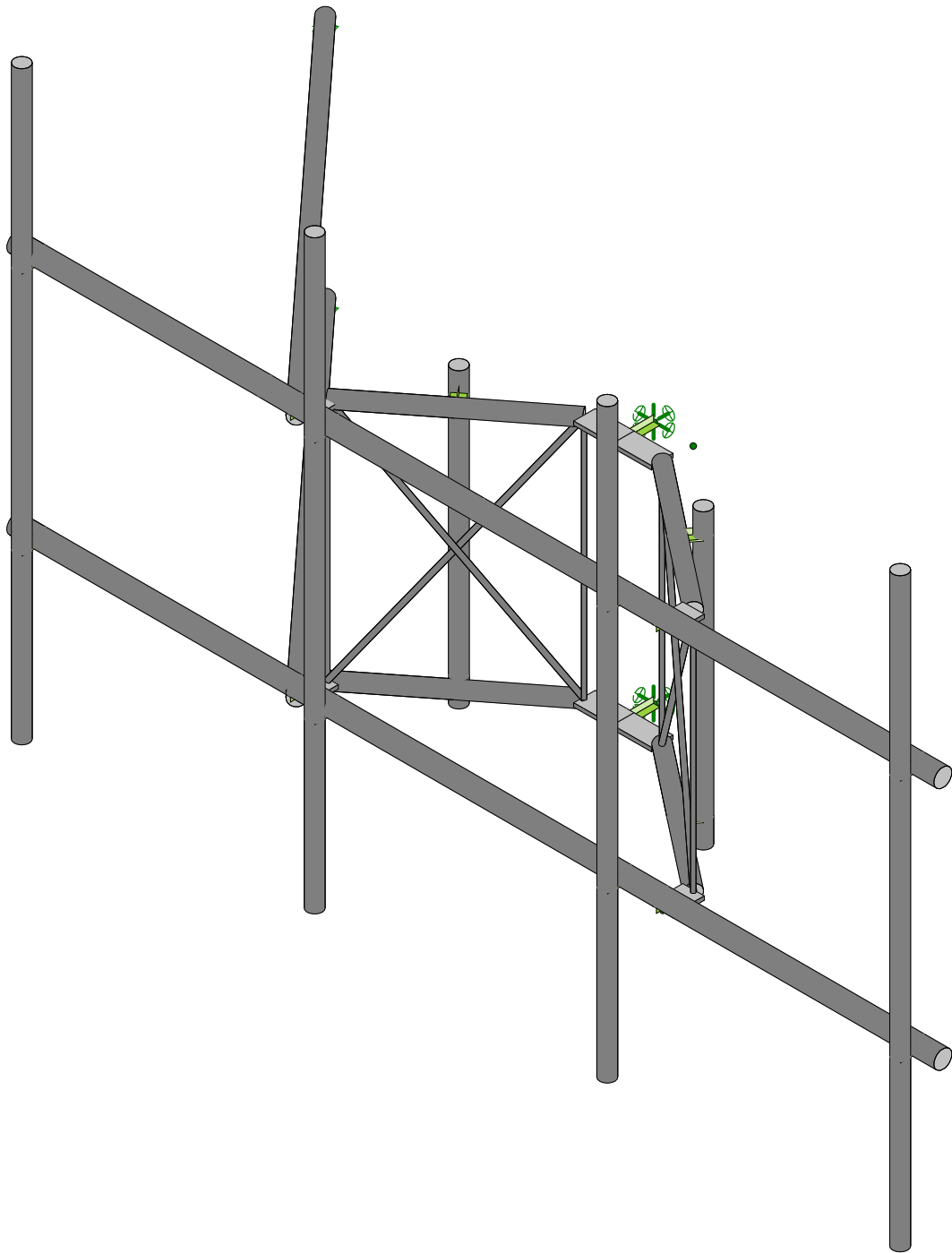
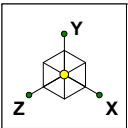
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**Please Insert Sketches of the Antenna Mount**







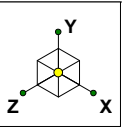


Envelope Only Solution

SK - 1

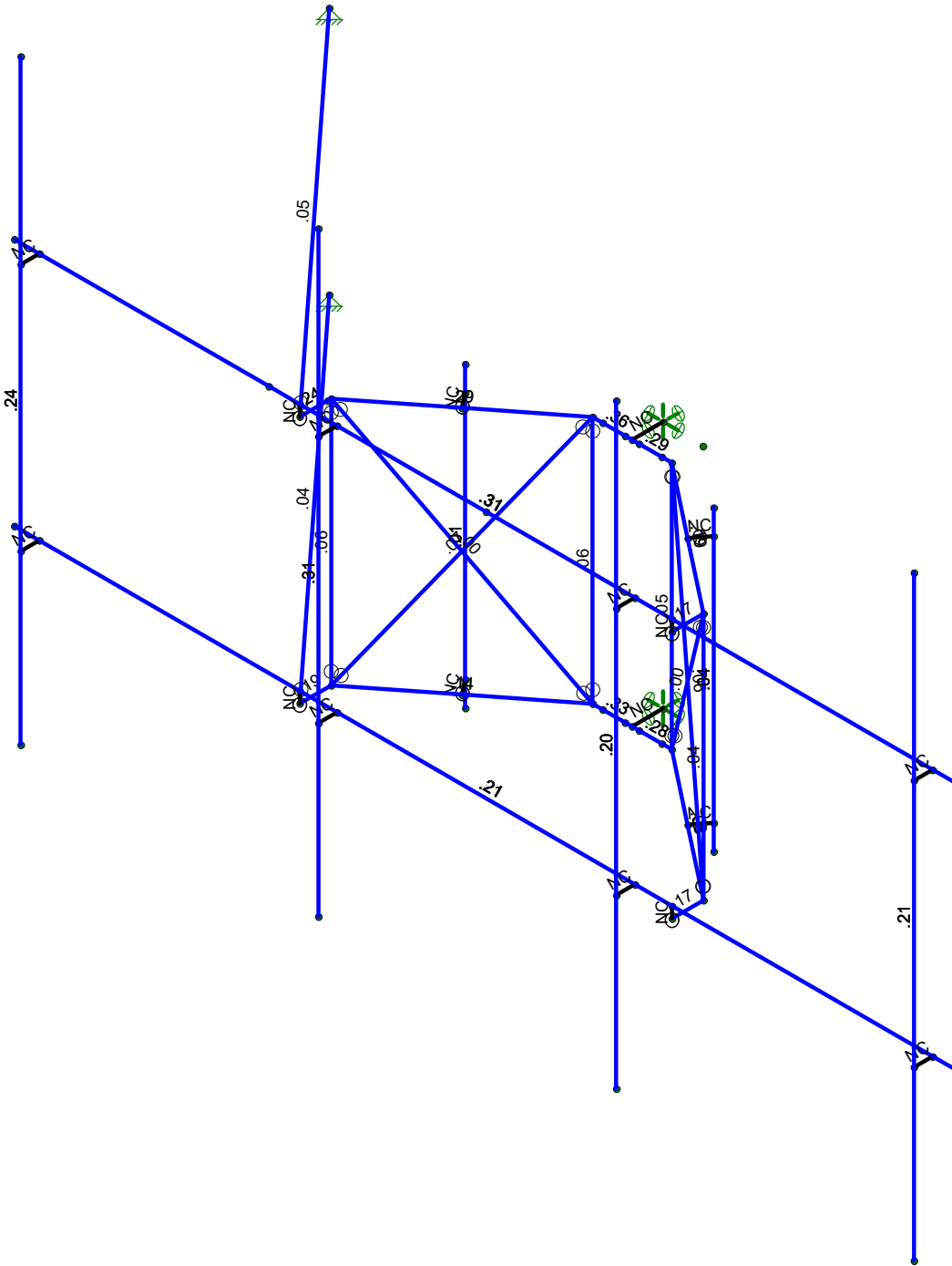
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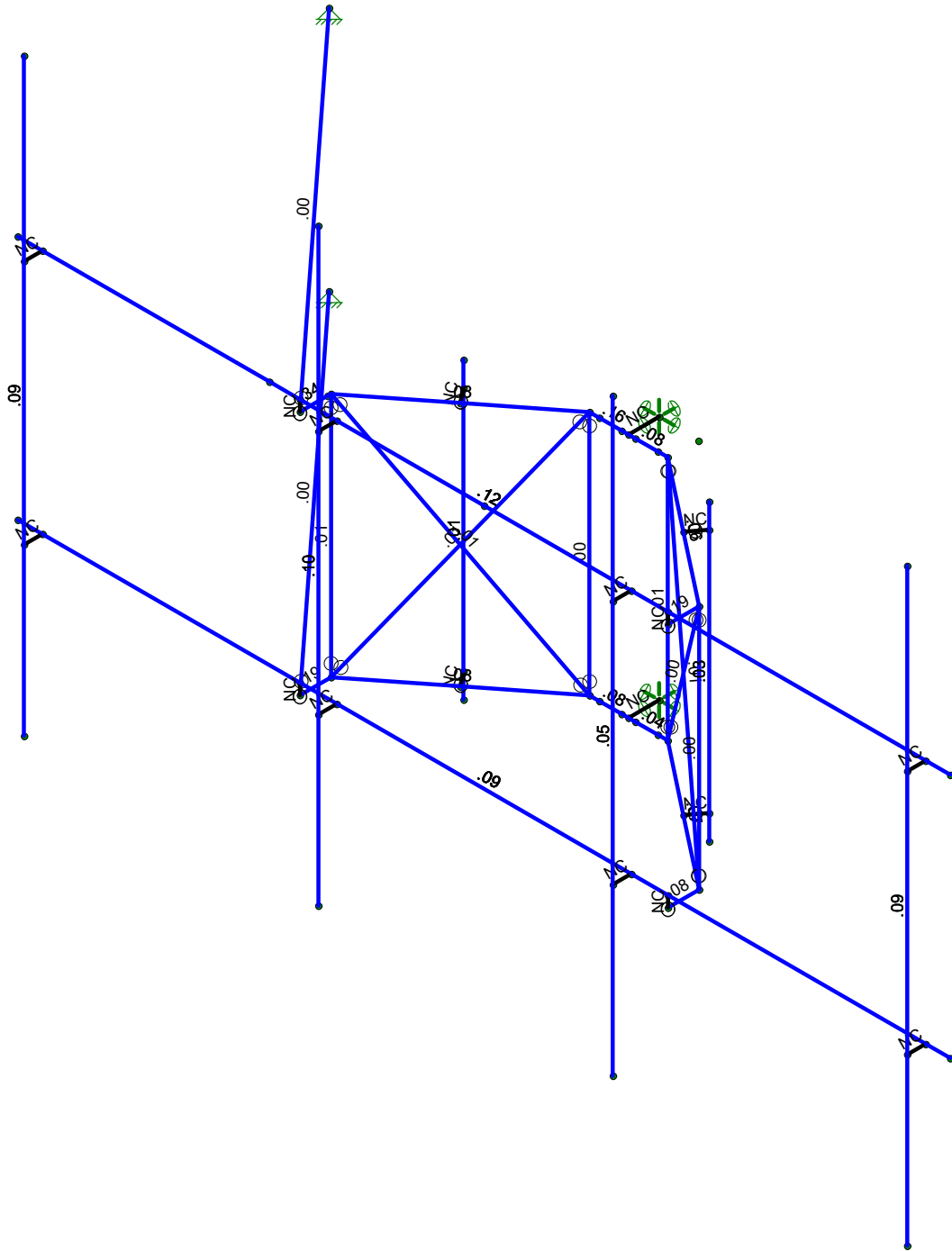
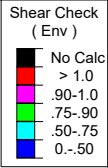
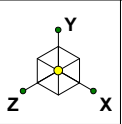
Code Check ( Env )

- No Calc
- > 1.0
- .90-1.0
- .75-.90
- .50-.75
- 0.-.50



Member Code Checks Displayed (Enveloped)  
Envelope Only Solution

		SK - 2
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Member Shear Checks Displayed (Enveloped)  
Envelope Only Solution

		SK - 3
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		468991-VZW_MT_LOT_C_H.r3d

### Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
1	Antenna D	None					42		
2	Antenna Di	None					42		
3	Antenna Wo (0 Deg)	None					42		
4	Antenna Wo (30 Deg)	None					42		
5	Antenna Wo (60 Deg)	None					42		
6	Antenna Wo (90 Deg)	None					42		
7	Antenna Wo (120 Deg)	None					42		
8	Antenna Wo (150 Deg)	None					42		
9	Antenna Wo (180 Deg)	None					42		
10	Antenna Wo (210 Deg)	None					42		
11	Antenna Wo (240 Deg)	None					42		
12	Antenna Wo (270 Deg)	None					42		
13	Antenna Wo (300 Deg)	None					42		
14	Antenna Wo (330 Deg)	None					42		
15	Antenna Wi (0 Deg)	None					42		
16	Antenna Wi (30 Deg)	None					42		
17	Antenna Wi (60 Deg)	None					42		
18	Antenna Wi (90 Deg)	None					42		
19	Antenna Wi (120 Deg)	None					42		
20	Antenna Wi (150 Deg)	None					42		
21	Antenna Wi (180 Deg)	None					42		
22	Antenna Wi (210 Deg)	None					42		
23	Antenna Wi (240 Deg)	None					42		
24	Antenna Wi (270 Deg)	None					42		
25	Antenna Wi (300 Deg)	None					42		
26	Antenna Wi (330 Deg)	None					42		
27	Antenna Wm (0 Deg)	None					42		
28	Antenna Wm (30 Deg)	None					42		
29	Antenna Wm (60 Deg)	None					42		
30	Antenna Wm (90 Deg)	None					42		
31	Antenna Wm (120 Deg)	None					42		
32	Antenna Wm (150 Deg)	None					42		
33	Antenna Wm (180 Deg)	None					42		
34	Antenna Wm (210 Deg)	None					42		
35	Antenna Wm (240 Deg)	None					42		
36	Antenna Wm (270 Deg)	None					42		
37	Antenna Wm (300 Deg)	None					42		
38	Antenna Wm (330 Deg)	None					42		
39	Structure D	None		-1					
40	Structure Di	None						30	
41	Structure Wo (0 Deg)	None						60	
42	Structure Wo (30 Deg)	None						60	
43	Structure Wo (60 Deg)	None						60	
44	Structure Wo (90 Deg)	None						60	
45	Structure Wo (120 D...	None						60	
46	Structure Wo (150 D...	None						60	
47	Structure Wo (180 D...	None						60	
48	Structure Wo (210 D...	None						60	
49	Structure Wo (240 D...	None						60	
50	Structure Wo (270 D...	None						60	
51	Structure Wo (300 D...	None						60	
52	Structure Wo (330 D...	None						60	
53	Structure Wi (0 Deg)	None						60	
54	Structure Wi (30 Deg)	None						60	
55	Structure Wi (60 Deg)	None						60	
56	Structure Wi (90 Deg)	None						60	



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**Basic Load Cases (Continued)**

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
57	Structure Wi (120 De...	None						60	
58	Structure Wi (150 De...	None						60	
59	Structure Wi (180 De...	None						60	
60	Structure Wi (210 De...	None						60	
61	Structure Wi (240 De...	None						60	
62	Structure Wi (270 De...	None						60	
63	Structure Wi (300 De...	None						60	
64	Structure Wi (330 De...	None						60	
65	Structure Wm (0 Deg)	None						60	
66	Structure Wm (30 De...	None						60	
67	Structure Wm (60 De...	None						60	
68	Structure Wm (90 De...	None						60	
69	Structure Wm (120 D...	None						60	
70	Structure Wm (150 D...	None						60	
71	Structure Wm (180 D...	None						60	
72	Structure Wm (210 D...	None						60	
73	Structure Wm (240 D...	None						60	
74	Structure Wm (270 D...	None						60	
75	Structure Wm (300 D...	None						60	
76	Structure Wm (330 D...	None						60	
77	Lm1	None					1		
78	Lm2	None					1		
79	Lv1	None					1		
80	Lv2	None					1		

**Load Combinations**

	Description	Sol.	PD.	SR.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.
1	1.2D+1.0Wo...	Yes	Y		1	1.2	39	1.2	3	1	41	1							
2	1.2D+1.0Wo...	Yes	Y		1	1.2	39	1.2	4	1	42	1							
3	1.2D+1.0Wo...	Yes	Y		1	1.2	39	1.2	5	1	43	1							
4	1.2D+1.0Wo...	Yes	Y		1	1.2	39	1.2	6	1	44	1							
5	1.2D+1.0Wo...	Yes	Y		1	1.2	39	1.2	7	1	45	1							
6	1.2D+1.0Wo...	Yes	Y		1	1.2	39	1.2	8	1	46	1							
7	1.2D+1.0Wo...	Yes	Y		1	1.2	39	1.2	9	1	47	1							
8	1.2D+1.0Wo...	Yes	Y		1	1.2	39	1.2	10	1	48	1							
9	1.2D+1.0Wo...	Yes	Y		1	1.2	39	1.2	11	1	49	1							
10	1.2D+1.0Wo...	Yes	Y		1	1.2	39	1.2	12	1	50	1							
11	1.2D+1.0Wo...	Yes	Y		1	1.2	39	1.2	13	1	51	1							
12	1.2D+1.0Wo...	Yes	Y		1	1.2	39	1.2	14	1	52	1							
13	1.2D + 1.0Di...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1			
14	1.2D + 1.0Di...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1			
15	1.2D + 1.0Di...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1			
16	1.2D + 1.0Di...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1			
17	1.2D + 1.0Di...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1			
18	1.2D + 1.0Di...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1			
19	1.2D + 1.0Di...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1			
20	1.2D + 1.0Di...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1			
21	1.2D + 1.0Di...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1			
22	1.2D + 1.0Di...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1			
23	1.2D + 1.0Di...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1			
24	1.2D + 1.0Di...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1			
25	1.2D + 1.5L...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1					
26	1.2D + 1.5L...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1					
27	1.2D + 1.5L...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1					
28	1.2D + 1.5L...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1					





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**Load Combinations (Continued)**

Description	Sol.	PD	SR	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.
29	1.2D + 1.5L...	Yes	Y	1	1.2	39	1.2	77	1.5	31	1	69	1	
30	1.2D + 1.5L...	Yes	Y	1	1.2	39	1.2	77	1.5	32	1	70	1	
31	1.2D + 1.5L...	Yes	Y	1	1.2	39	1.2	77	1.5	33	1	71	1	
32	1.2D + 1.5L...	Yes	Y	1	1.2	39	1.2	77	1.5	34	1	72	1	
33	1.2D + 1.5L...	Yes	Y	1	1.2	39	1.2	77	1.5	35	1	73	1	
34	1.2D + 1.5L...	Yes	Y	1	1.2	39	1.2	77	1.5	36	1	74	1	
35	1.2D + 1.5L...	Yes	Y	1	1.2	39	1.2	77	1.5	37	1	75	1	
36	1.2D + 1.5L...	Yes	Y	1	1.2	39	1.2	77	1.5	38	1	76	1	
37	1.2D + 1.5L...	Yes	Y	1	1.2	39	1.2	78	1.5	27	1	65	1	
38	1.2D + 1.5L...	Yes	Y	1	1.2	39	1.2	78	1.5	28	1	66	1	
39	1.2D + 1.5L...	Yes	Y	1	1.2	39	1.2	78	1.5	29	1	67	1	
40	1.2D + 1.5L...	Yes	Y	1	1.2	39	1.2	78	1.5	30	1	68	1	
41	1.2D + 1.5L...	Yes	Y	1	1.2	39	1.2	78	1.5	31	1	69	1	
42	1.2D + 1.5L...	Yes	Y	1	1.2	39	1.2	78	1.5	32	1	70	1	
43	1.2D + 1.5L...	Yes	Y	1	1.2	39	1.2	78	1.5	33	1	71	1	
44	1.2D + 1.5L...	Yes	Y	1	1.2	39	1.2	78	1.5	34	1	72	1	
45	1.2D + 1.5L...	Yes	Y	1	1.2	39	1.2	78	1.5	35	1	73	1	
46	1.2D + 1.5L...	Yes	Y	1	1.2	39	1.2	78	1.5	36	1	74	1	
47	1.2D + 1.5L...	Yes	Y	1	1.2	39	1.2	78	1.5	37	1	75	1	
48	1.2D + 1.5L...	Yes	Y	1	1.2	39	1.2	78	1.5	38	1	76	1	
49	1.2D + 1.5Lv1	Yes	Y	1	1.2	39	1.2	79	1.5					
50	1.2D + 1.5Lv2	Yes	Y	1	1.2	39	1.2	80	1.5					
51	1.4D	Yes	Y	1	1.4	39	1.4							
52	Seismic Mass		Y	1	1	39	1							
53	1.2D + 1.0Ev...		Y	1	1.2	39	1.2	SX		SY	1	SZ	-1	
54	1.2D + 1.0Ev...		Y	1	1.2	39	1.2	SX	.5	SY	1	SZ	-.866	
55	1.2D + 1.0Ev...		Y	1	1.2	39	1.2	SX	.866	SY	1	SZ	-.5	
56	1.2D + 1.0Ev...		Y	1	1.2	39	1.2	SX	1	SY	1	SZ		
57	1.2D + 1.0Ev...		Y	1	1.2	39	1.2	SX	.866	SY	1	SZ	.5	
58	1.2D + 1.0Ev...		Y	1	1.2	39	1.2	SX	.5	SY	1	SZ	.866	
59	1.2D + 1.0Ev...		Y	1	1.2	39	1.2	SX		SY	1	SZ	1	
60	1.2D + 1.0Ev...		Y	1	1.2	39	1.2	SX	-.5	SY	1	SZ	.866	
61	1.2D + 1.0Ev...		Y	1	1.2	39	1.2	SX	-.866	SY	1	SZ	.5	
62	1.2D + 1.0Ev...		Y	1	1.2	39	1.2	SX	-1	SY	1	SZ		
63	1.2D + 1.0Ev...		Y	1	1.2	39	1.2	SX	-.866	SY	1	SZ	-.5	
64	1.2D + 1.0Ev...		Y	1	1.2	39	1.2	SX	-.5	SY	1	SZ	-.866	

**Joint Coordinates and Temperatures**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	3.5	0.145833	8.083333	0	
2	N2	-9.166667	0.145833	8.083333	0	
3	N3	3.5	3.479167	8.083333	0	
4	N4	-9.166667	3.479167	8.083333	0	
5	N21	-5.333333	0	8.083333	0	
6	N22	-5.333333	3.333333	8.083333	0	
7	N23	-0.333333	0	8.083333	0	
8	N24	-0.333333	3.333333	8.083333	0	
9	N25	-5.333333	0	7.661458	0	
10	N26	-5.333333	3.333333	7.661458	0	
11	N27	-0.333333	0	7.661458	0	
12	N28	-0.333333	3.333333	7.661458	0	
13	N29	-2.833333	0	6.119792	0	
14	N30	-2.833333	3.333333	6.119792	0	
15	N31	-3.364583	0	6.119792	0	
16	N32	-3.364583	3.333333	6.119792	0	



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**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
17	N33	-2.302083	0	6.119792	0	
18	N34	-2.302083	3.333333	6.119792	0	
19	N35	-2.833333	0	5.703125	0	
20	N36	-2.833333	3.333333	5.703125	0	
21	N37	-5.75	3.479167	8.083333	0	
22	N58	-5.333333	3.333333	7.708333	0	
23	N76	-2.927083	0	6.119792	0	
24	N77	-3.229167	0	6.119792	0	
25	N78	-2.739583	0	6.119792	0	
26	N79	-2.4375	0	6.119792	0	
27	N80	-2.927083	3.333333	6.119792	0	
28	N81	-3.229167	3.333333	6.119792	0	
29	N82	-2.739583	3.333333	6.119792	0	
30	N83	-2.4375	3.333333	6.119792	0	
31	N58A	-2.833333	3.479167	8.083333	0	
32	N59	-5.333333	0.145833	8.083333	0	
33	N60	-5.333333	3.479167	8.083333	0	
34	N61	-0.333333	0.145833	8.083333	0	
35	N62	-0.333333	3.479167	8.083333	0	
36	N39	-8.833333	0.145833	8.083333	0	
37	N40	-8.833333	3.479167	8.083333	0	
38	N41	3.166667	0.145833	8.083333	0	
39	N42	3.166667	3.479167	8.083333	0	
40	N43	-0.833333	0.145833	8.083333	0	
41	N44	-0.833333	3.479167	8.083333	0	
42	N45	-4.833333	0.145833	8.083333	0	
43	N46	-4.833333	3.479167	8.083333	0	
44	N47	-8.833333	0.145833	8.333333	0	
45	N48	-8.833333	3.479167	8.333333	0	
46	N49	3.166667	0.145833	8.333333	0	
47	N50	3.166667	3.479167	8.333333	0	
48	N51	-0.833333	0.145833	8.333333	0	
49	N52	-0.833333	3.479167	8.333333	0	
50	N53	-4.833333	0.145833	8.333333	0	
51	N54	-4.833333	3.479167	8.333333	0	
52	N55	-8.833333	5.895833	8.333333	0	
53	N56	3.166667	5.895833	8.333333	0	
54	N57	-0.833333	5.895833	8.333333	0	
55	N58B	-4.833333	5.895833	8.333333	0	
56	N59A	-8.833333	-2.104167	8.333333	0	
57	N60A	3.166667	-2.104167	8.333333	0	
58	N61A	-0.833333	-2.104167	8.333333	0	
59	N62A	-4.833333	-2.104167	8.333333	0	
60	N63	-4.348958	3.333333	6.890625	0	
61	N64	-4.348958	0	6.890625	0	
62	N65	-1.317708	0	6.890625	0	
63	N66	-1.317708	3.333333	6.890625	0	
64	N67	-4.502058	3.333333	6.692983	0	
65	N68	-4.502058	0	6.692983	0	
66	N69	-1.164608	0	6.692983	0	
67	N70	-1.164608	3.333333	6.692983	0	
68	N71	-4.502058	3.666667	6.692983	0	
69	N72	-1.164608	3.666667	6.692983	0	
70	N73	-4.502058	-0.333333	6.692983	0	
71	N74	-1.164608	-0.333333	6.692983	0	
72	CP	-5.618746	0	2.383599	0	
73	N79A	-9.886247	0	3.136075	0	





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### Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
74	N80A	-9.886247	3.333333	3.136075	0	

### Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Antenna Pipe	PIPE 2.0	Column	Wide Flange	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Horizontal mount pipe	PIPE 2.5	Beam	Pipe	Q235	Typical	1.61	1.45	1.45	2.89
3	Standoff Horizontal	PIPE 2.0	Beam	Pipe	Q235	Typical	1.02	.627	.627	1.25
4	Standoff Diagonal	SR 0.75	Beam	BAR	Q235	Typical	.442	.016	.016	.031
5	Tieback	PIPE 2.0	Beam	Pipe	Q235	Typical	1.02	.627	.627	1.25
6	Standoff Vertical	SR 0.625	Column	Wide Flange	Q235	Typical	.307	.007	.007	.015
7	Standoff Plate	PL5/8X3.5	Beam	BAR	Q235	Typical	2.188	.071	2.233	.253

### Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E...	Density[k/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
2	A53 Gr. B	29000	11154	.3	.65	.49	35	1.5	60	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
5	A500 Gr. B 42	29000	11154	.3	.65	.49	42	1.4	58	1.3
6	A500 Gr. B 46	29000	11154	.3	.65	.49	46	1.4	58	1.3
7	Q235	29000	11154	.3	.65	.49	35	1.5	58	1.2

### Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N2	N1			Horizontal mou...	Beam	Pipe	Q235	Typical
2	M2	N4	N3			Horizontal mou...	Beam	Pipe	Q235	Typical
3	M13	N22	N26		90	Standoff Plate	Beam	BAR	Q235	Typical
4	M14	N21	N25		90	Standoff Plate	Beam	BAR	Q235	Typical
5	M15	N23	N27		90	Standoff Plate	Beam	BAR	Q235	Typical
6	M16	N24	N28		90	Standoff Plate	Beam	BAR	Q235	Typical
7	M17	N26	N32			Standoff Horiz...	Beam	Pipe	Q235	Typical
8	M18	N25	N31			Standoff Horiz...	Beam	Pipe	Q235	Typical
9	M19	N27	N33			Standoff Horiz...	Beam	Pipe	Q235	Typical
10	M20	N28	N34			Standoff Horiz...	Beam	Pipe	Q235	Typical
11	M21	N32	N30		90	Standoff Plate	Beam	BAR	Q235	Typical
12	M22	N34	N30		90	Standoff Plate	Beam	BAR	Q235	Typical
13	M23	N31	N29		90	Standoff Plate	Beam	BAR	Q235	Typical
14	M24	N33	N29		90	Standoff Plate	Beam	BAR	Q235	Typical
15	M25	N31	N26			Standoff Diago...	Beam	BAR	Q235	Typical
16	M26	N32	N25			Standoff Diago...	Beam	BAR	Q235	Typical
17	M27	N33	N28			Standoff Diago...	Beam	BAR	Q235	Typical
18	M28	N27	N34			Standoff Diago...	Beam	BAR	Q235	Typical
19	M29	N29	N35			RIGID	None	None	RIGID	Typical
20	M30	N30	N36			RIGID	None	None	RIGID	Typical
21	M31	N22	N80A			Tieback	Beam	Pipe	Q235	Typical
22	M32	N21	N79A			Tieback	Beam	Pipe	Q235	Typical
23	M44	N25	N26			Standoff Vertical	Column	Wide Flange	Q235	Typical
24	M45	N31	N32			Standoff Vertical	Column	Wide Flange	Q235	Typical
25	M46	N33	N34			Standoff Vertical	Column	Wide Flange	Q235	Typical
26	M47	N27	N28			Standoff Vertical	Column	Wide Flange	Q235	Typical
27	M47B	N22	N60			RIGID	None	None	RIGID	Typical
28	M48A	N21	N59			RIGID	None	None	RIGID	Typical



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**Member Primary Data (Continued)**

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
29	M49A	N24	N62			RIGID	None	None	RIGID	Typical
30	M50A	N23	N61			RIGID	None	None	RIGID	Typical
31	M51A	N30	N36			RIGID	None	None	RIGID	Typical
32	M52A	N29	N35			RIGID	None	None	RIGID	Typical
33	M33	N41	N49			RIGID	None	None	RIGID	Typical
34	M34	N43	N51			RIGID	None	None	RIGID	Typical
35	M35	N45	N53			RIGID	None	None	RIGID	Typical
36	M36	N39	N47			RIGID	None	None	RIGID	Typical
37	M37	N40	N48			RIGID	None	None	RIGID	Typical
38	M38	N46	N54			RIGID	None	None	RIGID	Typical
39	M39	N44	N52			RIGID	None	None	RIGID	Typical
40	M40	N42	N50			RIGID	None	None	RIGID	Typical
41	MP1A	N56	N60A			Antenna Pipe	Column	Wide Flange	A53 Gr. B	Typical
42	MP2A	N57	N61A			Antenna Pipe	Column	Wide Flange	A53 Gr. B	Typical
43	MP3A	N58B	N62A			Antenna Pipe	Column	Wide Flange	A53 Gr. B	Typical
44	MP4A	N55	N59A			Antenna Pipe	Column	Wide Flange	A53 Gr. B	Typical
45	M45A	N64	N68			RIGID	None	None	RIGID	Typical
46	M46A	N63	N67			RIGID	None	None	RIGID	Typical
47	M47A	N70	N66			RIGID	None	None	RIGID	Typical
48	M48	N69	N65			RIGID	None	None	RIGID	Typical
49	M49	N71	N73			Antenna Pipe	Column	Wide Flange	A53 Gr. B	Typical
50	M50	N72	N74			Antenna Pipe	Column	Wide Flange	A53 Gr. B	Typical

**Member Advanced Data**

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes				None
2	M2						Yes				None
3	M13						Yes	Default			None
4	M14						Yes	Default			None
5	M15						Yes				None
6	M16						Yes				None
7	M17						Yes	Default			None
8	M18						Yes				None
9	M19						Yes				None
10	M20						Yes	Default			None
11	M21						Yes	Default			None
12	M22						Yes				None
13	M23						Yes				None
14	M24						Yes				None
15	M25	BenPIN	BenPIN				Euler Buc...	Yes	Default		None
16	M26	BenPIN	BenPIN				Euler Buc...	Yes	Default		None
17	M27	BenPIN	BenPIN				Euler Buc...	Yes			None
18	M28	BenPIN	BenPIN				Euler Buc...	Yes			None
19	M29						Yes	** NA **		Inactive	None
20	M30						Yes	** NA **		Inactive	None
21	M31	BenPIN					Yes	Default			None
22	M32	BenPIN					Yes	Default			None
23	M44	BenPIN	BenPIN				Yes	** NA **			None
24	M45	BenPIN	BenPIN				Yes	** NA **			None
25	M46	BenPIN	BenPIN				Yes	** NA **			None
26	M47	BenPIN	BenPIN				Yes	** NA **			None
27	M47B		OOOXOO				Yes	** NA **			None
28	M48A		OOOXOO				Yes	** NA **			None
29	M49A		OOOXOO				Yes	** NA **			None
30	M50A		OOOXOO				Yes	** NA **			None



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**Member Advanced Data (Continued)**

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
31	M51A						Yes	** NA **			None
32	M52A						Yes	** NA **			None
33	M33						Yes	** NA **			None
34	M34						Yes	** NA **			None
35	M35						Yes	** NA **			None
36	M36						Yes	** NA **			None
37	M37						Yes	** NA **			None
38	M38						Yes	** NA **			None
39	M39						Yes	** NA **			None
40	M40						Yes	** NA **			None
41	MP1A						Yes	** NA **			None
42	MP2A						Yes	** NA **			None
43	MP3A						Yes	** NA **			None
44	MP4A						Yes	** NA **			None
45	M45A		OOOXOO				Yes	** NA **			None
46	M46A		OOOXOO				Yes	** NA **			None
47	M47A	OOOXOX					Yes	** NA **			None
48	M48	OOOXOX					Yes	** NA **			None
49	M49						Yes	** NA **			None
50	M50						Yes	** NA **			None

**Member Point Loads (BLC 1 : Antenna D)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	Y	-43.55	2
2	MP2A	My	-.022	2
3	MP2A	Mz	0	2
4	MP2A	Y	-43.55	4
5	MP2A	My	-.022	4
6	MP2A	Mz	0	4
7	MP1A	Y	-13.5	.5
8	MP1A	My	-.007	.5
9	MP1A	Mz	0	.5
10	MP1A	Y	-13.5	5
11	MP1A	My	-.007	5
12	MP1A	Mz	0	5
13	MP4A	Y	-13.5	.5
14	MP4A	My	-.007	.5
15	MP4A	Mz	0	.5
16	MP4A	Y	-13.5	5
17	MP4A	My	-.007	5
18	MP4A	Mz	0	5
19	MP3A	Y	-31.65	1.5
20	MP3A	My	-.016	1.5
21	MP3A	Mz	-.016	1.5
22	MP3A	Y	-31.65	5
23	MP3A	My	-.016	5
24	MP3A	Mz	-.016	5
25	MP3A	Y	-31.65	1.5
26	MP3A	My	-.016	1.5
27	MP3A	Mz	.016	1.5
28	MP3A	Y	-31.65	5
29	MP3A	My	-.016	5
30	MP3A	Mz	.016	5
31	M49	Y	-10.4	2
32	M49	My	0	2

**Member Point Loads (BLC 1 : Antenna D) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
33	M49	Mz	0	2
34	M50	Y	-32	1
35	M50	My	0	1
36	M50	Mz	0	1
37	MP3A	Y	-84.4	4
38	MP3A	My	.042	4
39	MP3A	Mz	0	4
40	MP2A	Y	-70.3	4
41	MP2A	My	.035	4
42	MP2A	Mz	0	4

**Member Point Loads (BLC 2 : Antenna Di)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	Y	-33.913	2
2	MP2A	My	-.017	2
3	MP2A	Mz	0	2
4	MP2A	Y	-33.913	4
5	MP2A	My	-.017	4
6	MP2A	Mz	0	4
7	MP1A	Y	-85.397	.5
8	MP1A	My	-.043	.5
9	MP1A	Mz	0	.5
10	MP1A	Y	-85.397	5
11	MP1A	My	-.043	5
12	MP1A	Mz	0	5
13	MP4A	Y	-85.397	.5
14	MP4A	My	-.043	.5
15	MP4A	Mz	0	.5
16	MP4A	Y	-85.397	5
17	MP4A	My	-.043	5
18	MP4A	Mz	0	5
19	MP3A	Y	-66.664	1.5
20	MP3A	My	-.033	1.5
21	MP3A	Mz	-.033	1.5
22	MP3A	Y	-66.664	5
23	MP3A	My	-.033	5
24	MP3A	Mz	-.033	5
25	MP3A	Y	-66.664	1.5
26	MP3A	My	-.033	1.5
27	MP3A	Mz	.033	1.5
28	MP3A	Y	-66.664	5
29	MP3A	My	-.033	5
30	MP3A	Mz	.033	5
31	M49	Y	-10.16	2
32	M49	My	0	2
33	M49	Mz	0	2
34	M50	Y	-60.643	1
35	M50	My	0	1
36	M50	Mz	0	1
37	MP3A	Y	-42.726	4
38	MP3A	My	.021	4
39	MP3A	Mz	0	4
40	MP2A	Y	-38.41	4
41	MP2A	My	.019	4
42	MP2A	Mz	0	4



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**Member Point Loads (BLC 3 : Antenna Wo (0 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	2
2	MP2A	Z	-89.567	2
3	MP2A	Mx	0	2
4	MP2A	X	0	4
5	MP2A	Z	-89.567	4
6	MP2A	Mx	0	4
7	MP1A	X	0	.5
8	MP1A	Z	-185.994	.5
9	MP1A	Mx	0	.5
10	MP1A	X	0	5
11	MP1A	Z	-185.994	5
12	MP1A	Mx	0	5
13	MP4A	X	0	.5
14	MP4A	Z	-185.994	.5
15	MP4A	Mx	0	.5
16	MP4A	X	0	5
17	MP4A	Z	-185.994	5
18	MP4A	Mx	0	5
19	MP3A	X	0	1.5
20	MP3A	Z	-173.607	1.5
21	MP3A	Mx	.087	1.5
22	MP3A	X	0	5
23	MP3A	Z	-173.607	5
24	MP3A	Mx	.087	5
25	MP3A	X	0	1.5
26	MP3A	Z	-173.607	1.5
27	MP3A	Mx	-.087	1.5
28	MP3A	X	0	5
29	MP3A	Z	-173.607	5
30	MP3A	Mx	-.087	5
31	M49	X	0	2
32	M49	Z	-9.888	2
33	M49	Mx	0	2
34	M50	X	0	1
35	M50	Z	-76.433	1
36	M50	Mx	0	1
37	MP3A	X	0	4
38	MP3A	Z	-71.272	4
39	MP3A	Mx	0	4
40	MP2A	X	0	4
41	MP2A	Z	-71.272	4
42	MP2A	Mx	0	4

**Member Point Loads (BLC 4 : Antenna Wo (30 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	37.971	2
2	MP2A	Z	-65.767	2
3	MP2A	Mx	-.019	2
4	MP2A	X	37.971	4
5	MP2A	Z	-65.767	4
6	MP2A	Mx	-.019	4
7	MP1A	X	90.242	.5
8	MP1A	Z	-156.303	.5
9	MP1A	Mx	-.045	.5
10	MP1A	X	90.242	5
11	MP1A	Z	-156.303	5



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**Member Point Loads (BLC 4 : Antenna Wo (30 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
12	MP1A	Mx	-.045	5
13	MP4A	X	90.242	.5
14	MP4A	Z	-156.303	.5
15	MP4A	Mx	-.045	.5
16	MP4A	X	90.242	5
17	MP4A	Z	-156.303	5
18	MP4A	Mx	-.045	5
19	MP3A	X	79.355	1.5
20	MP3A	Z	-137.448	1.5
21	MP3A	Mx	.029	1.5
22	MP3A	X	79.355	5
23	MP3A	Z	-137.448	5
24	MP3A	Mx	.029	5
25	MP3A	X	79.355	1.5
26	MP3A	Z	-137.448	1.5
27	MP3A	Mx	-.108	1.5
28	MP3A	X	79.355	5
29	MP3A	Z	-137.448	5
30	MP3A	Mx	-.108	5
31	M49	X	5.776	2
32	M49	Z	-10.005	2
33	M49	Mx	0	2
34	M50	X	45.777	1
35	M50	Z	-79.288	1
36	M50	Mx	0	1
37	MP3A	X	32.682	4
38	MP3A	Z	-56.607	4
39	MP3A	Mx	.016	4
40	MP2A	X	31.551	4
41	MP2A	Z	-54.648	4
42	MP2A	Mx	.016	4

**Member Point Loads (BLC 5 : Antenna Wo (60 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	42.167	2
2	MP2A	Z	-24.345	2
3	MP2A	Mx	-.021	2
4	MP2A	X	42.167	4
5	MP2A	Z	-24.345	4
6	MP2A	Mx	-.021	4
7	MP1A	X	146.758	.5
8	MP1A	Z	-84.731	.5
9	MP1A	Mx	-.073	.5
10	MP1A	X	146.758	5
11	MP1A	Z	-84.731	5
12	MP1A	Mx	-.073	5
13	MP4A	X	146.758	.5
14	MP4A	Z	-84.731	.5
15	MP4A	Mx	-.073	.5
16	MP4A	X	146.758	5
17	MP4A	Z	-84.731	5
18	MP4A	Mx	-.073	5
19	MP3A	X	111.647	1.5
20	MP3A	Z	-64.459	1.5
21	MP3A	Mx	-.024	1.5
22	MP3A	X	111.647	5



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**Member Point Loads (BLC 5 : Antenna Wo (60 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
23	MP3A	Z	-64.459	5
24	MP3A	Mx	-.024	5
25	MP3A	X	111.647	1.5
26	MP3A	Z	-64.459	1.5
27	MP3A	Mx	-.088	1.5
28	MP3A	X	111.647	5
29	MP3A	Z	-64.459	5
30	MP3A	Mx	-.088	5
31	M49	X	11.773	2
32	M49	Z	-6.797	2
33	M49	Mx	0	2
34	M50	X	95.352	1
35	M50	Z	-55.052	1
36	M50	Mx	0	1
37	MP3A	X	46.375	4
38	MP3A	Z	-26.775	4
39	MP3A	Mx	.023	4
40	MP2A	X	40.496	4
41	MP2A	Z	-23.38	4
42	MP2A	Mx	.02	4

**Member Point Loads (BLC 6 : Antenna Wo (90 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	35.065	2
2	MP2A	Z	0	2
3	MP2A	Mx	-.018	2
4	MP2A	X	35.065	4
5	MP2A	Z	0	4
6	MP2A	Mx	-.018	4
7	MP1A	X	163.951	.5
8	MP1A	Z	0	.5
9	MP1A	Mx	-.082	.5
10	MP1A	X	163.951	5
11	MP1A	Z	0	5
12	MP1A	Mx	-.082	5
13	MP4A	X	163.951	.5
14	MP4A	Z	0	.5
15	MP4A	Mx	-.082	.5
16	MP4A	X	163.951	5
17	MP4A	Z	0	5
18	MP4A	Mx	-.082	5
19	MP3A	X	114.023	1.5
20	MP3A	Z	0	1.5
21	MP3A	Mx	-.057	1.5
22	MP3A	X	114.023	5
23	MP3A	Z	0	5
24	MP3A	Mx	-.057	5
25	MP3A	X	114.023	1.5
26	MP3A	Z	0	1.5
27	MP3A	Mx	-.057	1.5
28	MP3A	X	114.023	5
29	MP3A	Z	0	5
30	MP3A	Mx	-.057	5
31	M49	X	13.971	2
32	M49	Z	0	2
33	M49	Mx	0	2





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**Member Point Loads (BLC 6 : Antenna Wo (90 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
34	M50	X	113.531	1
35	M50	Z	0	1
36	M50	Mx	0	1
37	MP3A	X	47.642	4
38	MP3A	Z	0	4
39	MP3A	Mx	.024	4
40	MP2A	X	38.59	4
41	MP2A	Z	0	4
42	MP2A	Mx	.019	4

**Member Point Loads (BLC 7 : Antenna Wo (120 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	42.167	2
2	MP2A	Z	24.345	2
3	MP2A	Mx	-.021	2
4	MP2A	X	42.167	4
5	MP2A	Z	24.345	4
6	MP2A	Mx	-.021	4
7	MP1A	X	146.758	.5
8	MP1A	Z	84.731	.5
9	MP1A	Mx	-.073	.5
10	MP1A	X	146.758	5
11	MP1A	Z	84.731	5
12	MP1A	Mx	-.073	5
13	MP4A	X	146.758	.5
14	MP4A	Z	84.731	.5
15	MP4A	Mx	-.073	.5
16	MP4A	X	146.758	5
17	MP4A	Z	84.731	5
18	MP4A	Mx	-.073	5
19	MP3A	X	111.647	1.5
20	MP3A	Z	64.459	1.5
21	MP3A	Mx	-.088	1.5
22	MP3A	X	111.647	5
23	MP3A	Z	64.459	5
24	MP3A	Mx	-.088	5
25	MP3A	X	111.647	1.5
26	MP3A	Z	64.459	1.5
27	MP3A	Mx	-.024	1.5
28	MP3A	X	111.647	5
29	MP3A	Z	64.459	5
30	MP3A	Mx	-.024	5
31	M49	X	10.658	2
32	M49	Z	6.153	2
33	M49	Mx	0	2
34	M50	X	85.225	1
35	M50	Z	49.205	1
36	M50	Mx	0	1
37	MP3A	X	46.375	4
38	MP3A	Z	26.775	4
39	MP3A	Mx	.023	4
40	MP2A	X	40.496	4
41	MP2A	Z	23.38	4
42	MP2A	Mx	.02	4





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**Member Point Loads (BLC 8 : Antenna Wo (150 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	37.971	2
2	MP2A	Z	65.767	2
3	MP2A	Mx	-.019	2
4	MP2A	X	37.971	4
5	MP2A	Z	65.767	4
6	MP2A	Mx	-.019	4
7	MP1A	X	90.242	.5
8	MP1A	Z	156.303	.5
9	MP1A	Mx	-.045	.5
10	MP1A	X	90.242	5
11	MP1A	Z	156.303	5
12	MP1A	Mx	-.045	5
13	MP4A	X	90.242	.5
14	MP4A	Z	156.303	.5
15	MP4A	Mx	-.045	.5
16	MP4A	X	90.242	5
17	MP4A	Z	156.303	5
18	MP4A	Mx	-.045	5
19	MP3A	X	79.355	1.5
20	MP3A	Z	137.448	1.5
21	MP3A	Mx	-.108	1.5
22	MP3A	X	79.355	5
23	MP3A	Z	137.448	5
24	MP3A	Mx	-.108	5
25	MP3A	X	79.355	1.5
26	MP3A	Z	137.448	1.5
27	MP3A	Mx	.029	1.5
28	MP3A	X	79.355	5
29	MP3A	Z	137.448	5
30	MP3A	Mx	.029	5
31	M49	X	5.133	2
32	M49	Z	8.89	2
33	M49	Mx	0	2
34	M50	X	39.93	1
35	M50	Z	69.161	1
36	M50	Mx	0	1
37	MP3A	X	32.682	4
38	MP3A	Z	56.607	4
39	MP3A	Mx	.016	4
40	MP2A	X	31.551	4
41	MP2A	Z	54.648	4
42	MP2A	Mx	.016	4

**Member Point Loads (BLC 9 : Antenna Wo (180 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	2
2	MP2A	Z	89.567	2
3	MP2A	Mx	0	2
4	MP2A	X	0	4
5	MP2A	Z	89.567	4
6	MP2A	Mx	0	4
7	MP1A	X	0	.5
8	MP1A	Z	185.994	.5
9	MP1A	Mx	0	.5
10	MP1A	X	0	5
11	MP1A	Z	185.994	5



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**Member Point Loads (BLC 9 : Antenna Wo (180 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
12	MP1A	Mx	0	5
13	MP4A	X	0	.5
14	MP4A	Z	185.994	.5
15	MP4A	Mx	0	.5
16	MP4A	X	0	5
17	MP4A	Z	185.994	5
18	MP4A	Mx	0	5
19	MP3A	X	0	1.5
20	MP3A	Z	173.607	1.5
21	MP3A	Mx	-.087	1.5
22	MP3A	X	0	5
23	MP3A	Z	173.607	5
24	MP3A	Mx	-.087	5
25	MP3A	X	0	1.5
26	MP3A	Z	173.607	1.5
27	MP3A	Mx	.087	1.5
28	MP3A	X	0	5
29	MP3A	Z	173.607	5
30	MP3A	Mx	.087	5
31	M49	X	0	2
32	M49	Z	9.888	2
33	M49	Mx	0	2
34	M50	X	0	1
35	M50	Z	76.433	1
36	M50	Mx	0	1
37	MP3A	X	0	4
38	MP3A	Z	71.272	4
39	MP3A	Mx	0	4
40	MP2A	X	0	4
41	MP2A	Z	71.272	4
42	MP2A	Mx	0	4

**Member Point Loads (BLC 10 : Antenna Wo (210 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-37.971	2
2	MP2A	Z	65.767	2
3	MP2A	Mx	.019	2
4	MP2A	X	-37.971	4
5	MP2A	Z	65.767	4
6	MP2A	Mx	.019	4
7	MP1A	X	-90.242	.5
8	MP1A	Z	156.303	.5
9	MP1A	Mx	.045	.5
10	MP1A	X	-90.242	5
11	MP1A	Z	156.303	5
12	MP1A	Mx	.045	5
13	MP4A	X	-90.242	.5
14	MP4A	Z	156.303	.5
15	MP4A	Mx	.045	.5
16	MP4A	X	-90.242	5
17	MP4A	Z	156.303	5
18	MP4A	Mx	.045	5
19	MP3A	X	-79.355	1.5
20	MP3A	Z	137.448	1.5
21	MP3A	Mx	-.029	1.5
22	MP3A	X	-79.355	5



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**Member Point Loads (BLC 10 : Antenna Wo (210 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
23	MP3A	Z	137.448	5
24	MP3A	Mx	-.029	5
25	MP3A	X	-79.355	1.5
26	MP3A	Z	137.448	1.5
27	MP3A	Mx	.108	1.5
28	MP3A	X	-79.355	5
29	MP3A	Z	137.448	5
30	MP3A	Mx	.108	5
31	M49	X	-5.776	2
32	M49	Z	10.005	2
33	M49	Mx	0	2
34	M50	X	-45.777	1
35	M50	Z	79.288	1
36	M50	Mx	0	1
37	MP3A	X	-32.682	4
38	MP3A	Z	56.607	4
39	MP3A	Mx	-.016	4
40	MP2A	X	-31.551	4
41	MP2A	Z	54.648	4
42	MP2A	Mx	-.016	4

**Member Point Loads (BLC 11 : Antenna Wo (240 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-42.167	2
2	MP2A	Z	24.345	2
3	MP2A	Mx	.021	2
4	MP2A	X	-42.167	4
5	MP2A	Z	24.345	4
6	MP2A	Mx	.021	4
7	MP1A	X	-146.758	.5
8	MP1A	Z	84.731	.5
9	MP1A	Mx	.073	.5
10	MP1A	X	-146.758	5
11	MP1A	Z	84.731	5
12	MP1A	Mx	.073	5
13	MP4A	X	-146.758	.5
14	MP4A	Z	84.731	.5
15	MP4A	Mx	.073	.5
16	MP4A	X	-146.758	5
17	MP4A	Z	84.731	5
18	MP4A	Mx	.073	5
19	MP3A	X	-111.647	1.5
20	MP3A	Z	64.459	1.5
21	MP3A	Mx	.024	1.5
22	MP3A	X	-111.647	5
23	MP3A	Z	64.459	5
24	MP3A	Mx	.024	5
25	MP3A	X	-111.647	1.5
26	MP3A	Z	64.459	1.5
27	MP3A	Mx	.088	1.5
28	MP3A	X	-111.647	5
29	MP3A	Z	64.459	5
30	MP3A	Mx	.088	5
31	M49	X	-11.773	2
32	M49	Z	6.797	2
33	M49	Mx	0	2

**Member Point Loads (BLC 11 : Antenna Wo (240 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
34	M50	X	-95.352	1
35	M50	Z	55.052	1
36	M50	Mx	0	1
37	MP3A	X	-46.375	4
38	MP3A	Z	26.775	4
39	MP3A	Mx	-.023	4
40	MP2A	X	-40.496	4
41	MP2A	Z	23.38	4
42	MP2A	Mx	-.02	4

**Member Point Loads (BLC 12 : Antenna Wo (270 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-35.065	2
2	MP2A	Z	0	2
3	MP2A	Mx	.018	2
4	MP2A	X	-35.065	4
5	MP2A	Z	0	4
6	MP2A	Mx	.018	4
7	MP1A	X	-163.951	.5
8	MP1A	Z	0	.5
9	MP1A	Mx	.082	.5
10	MP1A	X	-163.951	5
11	MP1A	Z	0	5
12	MP1A	Mx	.082	5
13	MP4A	X	-163.951	.5
14	MP4A	Z	0	.5
15	MP4A	Mx	.082	.5
16	MP4A	X	-163.951	5
17	MP4A	Z	0	5
18	MP4A	Mx	.082	5
19	MP3A	X	-114.023	1.5
20	MP3A	Z	0	1.5
21	MP3A	Mx	.057	1.5
22	MP3A	X	-114.023	5
23	MP3A	Z	0	5
24	MP3A	Mx	.057	5
25	MP3A	X	-114.023	1.5
26	MP3A	Z	0	1.5
27	MP3A	Mx	.057	1.5
28	MP3A	X	-114.023	5
29	MP3A	Z	0	5
30	MP3A	Mx	.057	5
31	M49	X	-13.971	2
32	M49	Z	0	2
33	M49	Mx	0	2
34	M50	X	-113.531	1
35	M50	Z	0	1
36	M50	Mx	0	1
37	MP3A	X	-47.642	4
38	MP3A	Z	0	4
39	MP3A	Mx	-.024	4
40	MP2A	X	-38.59	4
41	MP2A	Z	0	4
42	MP2A	Mx	-.019	4



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**Member Point Loads (BLC 13 : Antenna Wo (300 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-42.167	2
2	MP2A	Z	-24.345	2
3	MP2A	Mx	.021	2
4	MP2A	X	-42.167	4
5	MP2A	Z	-24.345	4
6	MP2A	Mx	.021	4
7	MP1A	X	-146.758	.5
8	MP1A	Z	-84.731	.5
9	MP1A	Mx	.073	.5
10	MP1A	X	-146.758	5
11	MP1A	Z	-84.731	5
12	MP1A	Mx	.073	5
13	MP4A	X	-146.758	.5
14	MP4A	Z	-84.731	.5
15	MP4A	Mx	.073	.5
16	MP4A	X	-146.758	5
17	MP4A	Z	-84.731	5
18	MP4A	Mx	.073	5
19	MP3A	X	-111.647	1.5
20	MP3A	Z	-64.459	1.5
21	MP3A	Mx	.088	1.5
22	MP3A	X	-111.647	5
23	MP3A	Z	-64.459	5
24	MP3A	Mx	.088	5
25	MP3A	X	-111.647	1.5
26	MP3A	Z	-64.459	1.5
27	MP3A	Mx	.024	1.5
28	MP3A	X	-111.647	5
29	MP3A	Z	-64.459	5
30	MP3A	Mx	.024	5
31	M49	X	-10.658	2
32	M49	Z	-6.153	2
33	M49	Mx	0	2
34	M50	X	-85.225	1
35	M50	Z	-49.205	1
36	M50	Mx	0	1
37	MP3A	X	-46.375	4
38	MP3A	Z	-26.775	4
39	MP3A	Mx	-.023	4
40	MP2A	X	-40.496	4
41	MP2A	Z	-23.38	4
42	MP2A	Mx	-.02	4

**Member Point Loads (BLC 14 : Antenna Wo (330 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-37.971	2
2	MP2A	Z	-65.767	2
3	MP2A	Mx	.019	2
4	MP2A	X	-37.971	4
5	MP2A	Z	-65.767	4
6	MP2A	Mx	.019	4
7	MP1A	X	-90.242	.5
8	MP1A	Z	-156.303	.5
9	MP1A	Mx	.045	.5
10	MP1A	X	-90.242	5
11	MP1A	Z	-156.303	5



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**Member Point Loads (BLC 14 : Antenna Wo (330 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
12	MP1A	Mx	.045	5
13	MP4A	X	-90.242	.5
14	MP4A	Z	-156.303	.5
15	MP4A	Mx	.045	.5
16	MP4A	X	-90.242	5
17	MP4A	Z	-156.303	5
18	MP4A	Mx	.045	5
19	MP3A	X	-79.355	1.5
20	MP3A	Z	-137.448	1.5
21	MP3A	Mx	.108	1.5
22	MP3A	X	-79.355	5
23	MP3A	Z	-137.448	5
24	MP3A	Mx	.108	5
25	MP3A	X	-79.355	1.5
26	MP3A	Z	-137.448	1.5
27	MP3A	Mx	-.029	1.5
28	MP3A	X	-79.355	5
29	MP3A	Z	-137.448	5
30	MP3A	Mx	-.029	5
31	M49	X	-5.133	2
32	M49	Z	-8.89	2
33	M49	Mx	0	2
34	M50	X	-39.93	1
35	M50	Z	-69.161	1
36	M50	Mx	0	1
37	MP3A	X	-32.682	4
38	MP3A	Z	-56.607	4
39	MP3A	Mx	-.016	4
40	MP2A	X	-31.551	4
41	MP2A	Z	-54.648	4
42	MP2A	Mx	-.016	4

**Member Point Loads (BLC 15 : Antenna Wi (0 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	2
2	MP2A	Z	-17.477	2
3	MP2A	Mx	0	2
4	MP2A	X	0	4
5	MP2A	Z	-17.477	4
6	MP2A	Mx	0	4
7	MP1A	X	0	.5
8	MP1A	Z	-34.999	.5
9	MP1A	Mx	0	.5
10	MP1A	X	0	5
11	MP1A	Z	-34.999	5
12	MP1A	Mx	0	5
13	MP4A	X	0	.5
14	MP4A	Z	-34.999	.5
15	MP4A	Mx	0	.5
16	MP4A	X	0	5
17	MP4A	Z	-34.999	5
18	MP4A	Mx	0	5
19	MP3A	X	0	1.5
20	MP3A	Z	-32.899	1.5
21	MP3A	Mx	.016	1.5
22	MP3A	X	0	5



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**Member Point Loads (BLC 15 : Antenna Wi (0 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
23	MP3A	Z	-32.899	5
24	MP3A	Mx	.016	5
25	MP3A	X	0	1.5
26	MP3A	Z	-32.899	1.5
27	MP3A	Mx	-.016	1.5
28	MP3A	X	0	5
29	MP3A	Z	-32.899	5
30	MP3A	Mx	-.016	5
31	M49	X	0	2
32	M49	Z	-2.673	2
33	M49	Mx	0	2
34	M50	X	0	1
35	M50	Z	-15.804	1
36	M50	Mx	0	1
37	MP3A	X	0	4
38	MP3A	Z	-14.695	4
39	MP3A	Mx	0	4
40	MP2A	X	0	4
41	MP2A	Z	-14.695	4
42	MP2A	Mx	0	4

**Member Point Loads (BLC 16 : Antenna Wi (30 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	7.481	2
2	MP2A	Z	-12.958	2
3	MP2A	Mx	-.004	2
4	MP2A	X	7.481	4
5	MP2A	Z	-12.958	4
6	MP2A	Mx	-.004	4
7	MP1A	X	17.018	.5
8	MP1A	Z	-29.476	.5
9	MP1A	Mx	-.009	.5
10	MP1A	X	17.018	5
11	MP1A	Z	-29.476	5
12	MP1A	Mx	-.009	5
13	MP4A	X	17.018	.5
14	MP4A	Z	-29.476	.5
15	MP4A	Mx	-.009	.5
16	MP4A	X	17.018	5
17	MP4A	Z	-29.476	5
18	MP4A	Mx	-.009	5
19	MP3A	X	15.138	1.5
20	MP3A	Z	-26.22	1.5
21	MP3A	Mx	.006	1.5
22	MP3A	X	15.138	5
23	MP3A	Z	-26.22	5
24	MP3A	Mx	.006	5
25	MP3A	X	15.138	1.5
26	MP3A	Z	-26.22	1.5
27	MP3A	Mx	-.021	1.5
28	MP3A	X	15.138	5
29	MP3A	Z	-26.22	5
30	MP3A	Mx	-.021	5
31	M49	X	1.507	2
32	M49	Z	-2.61	2
33	M49	Mx	0	2



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**Member Point Loads (BLC 16 : Antenna Wi (30 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
34	M50	X	9.287	1
35	M50	Z	-16.085	1
36	M50	Mx	0	1
37	MP3A	X	6.786	4
38	MP3A	Z	-11.754	4
39	MP3A	Mx	.003	4
40	MP2A	X	6.573	4
41	MP2A	Z	-11.384	4
42	MP2A	Mx	.003	4

**Member Point Loads (BLC 17 : Antenna Wi (60 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	8.602	2
2	MP2A	Z	-4.966	2
3	MP2A	Mx	-.004	2
4	MP2A	X	8.602	4
5	MP2A	Z	-4.966	4
6	MP2A	Mx	-.004	4
7	MP1A	X	27.809	.5
8	MP1A	Z	-16.056	.5
9	MP1A	Mx	-.014	.5
10	MP1A	X	27.809	5
11	MP1A	Z	-16.056	5
12	MP1A	Mx	-.014	5
13	MP4A	X	27.809	.5
14	MP4A	Z	-16.056	.5
15	MP4A	Mx	-.014	.5
16	MP4A	X	27.809	5
17	MP4A	Z	-16.056	5
18	MP4A	Mx	-.014	5
19	MP3A	X	21.676	1.5
20	MP3A	Z	-12.515	1.5
21	MP3A	Mx	-.005	1.5
22	MP3A	X	21.676	5
23	MP3A	Z	-12.515	5
24	MP3A	Mx	-.005	5
25	MP3A	X	21.676	1.5
26	MP3A	Z	-12.515	1.5
27	MP3A	Mx	-.017	1.5
28	MP3A	X	21.676	5
29	MP3A	Z	-12.515	5
30	MP3A	Mx	-.017	5
31	M49	X	2.973	2
32	M49	Z	-1.716	2
33	M49	Mx	0	2
34	M50	X	19.028	1
35	M50	Z	-10.986	1
36	M50	Mx	0	1
37	MP3A	X	9.809	4
38	MP3A	Z	-5.663	4
39	MP3A	Mx	.005	4
40	MP2A	X	8.701	4
41	MP2A	Z	-5.023	4
42	MP2A	Mx	.004	4





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**Member Point Loads (BLC 18 : Antenna Wi (90 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	7.417	2
2	MP2A	Z	0	2
3	MP2A	Mx	-.004	2
4	MP2A	X	7.417	4
5	MP2A	Z	0	4
6	MP2A	Mx	-.004	4
7	MP1A	X	31.149	.5
8	MP1A	Z	0	.5
9	MP1A	Mx	-.016	.5
10	MP1A	X	31.149	5
11	MP1A	Z	0	5
12	MP1A	Mx	-.016	5
13	MP4A	X	31.149	.5
14	MP4A	Z	0	.5
15	MP4A	Mx	-.016	.5
16	MP4A	X	31.149	5
17	MP4A	Z	0	5
18	MP4A	Mx	-.016	5
19	MP3A	X	22.407	1.5
20	MP3A	Z	0	1.5
21	MP3A	Mx	-.011	1.5
22	MP3A	X	22.407	5
23	MP3A	Z	0	5
24	MP3A	Mx	-.011	5
25	MP3A	X	22.407	1.5
26	MP3A	Z	0	1.5
27	MP3A	Mx	-.011	1.5
28	MP3A	X	22.407	5
29	MP3A	Z	0	5
30	MP3A	Mx	-.011	5
31	M49	X	3.51	2
32	M49	Z	0	2
33	M49	Mx	0	2
34	M50	X	22.6	1
35	M50	Z	0	1
36	M50	Mx	0	1
37	MP3A	X	10.204	4
38	MP3A	Z	0	4
39	MP3A	Mx	.005	4
40	MP2A	X	8.498	4
41	MP2A	Z	0	4
42	MP2A	Mx	.004	4

**Member Point Loads (BLC 19 : Antenna Wi (120 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	8.602	2
2	MP2A	Z	4.966	2
3	MP2A	Mx	-.004	2
4	MP2A	X	8.602	4
5	MP2A	Z	4.966	4
6	MP2A	Mx	-.004	4
7	MP1A	X	27.809	.5
8	MP1A	Z	16.056	.5
9	MP1A	Mx	-.014	.5
10	MP1A	X	27.809	5
11	MP1A	Z	16.056	5



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**Member Point Loads (BLC 19 : Antenna Wi (120 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
12	MP1A	Mx	-.014	5
13	MP4A	X	27.809	.5
14	MP4A	Z	16.056	.5
15	MP4A	Mx	-.014	.5
16	MP4A	X	27.809	5
17	MP4A	Z	16.056	5
18	MP4A	Mx	-.014	5
19	MP3A	X	21.676	1.5
20	MP3A	Z	12.515	1.5
21	MP3A	Mx	-.017	1.5
22	MP3A	X	21.676	5
23	MP3A	Z	12.515	5
24	MP3A	Mx	-.017	5
25	MP3A	X	21.676	1.5
26	MP3A	Z	12.515	1.5
27	MP3A	Mx	-.005	1.5
28	MP3A	X	21.676	5
29	MP3A	Z	12.515	5
30	MP3A	Mx	-.005	5
31	M49	X	2.744	2
32	M49	Z	1.584	2
33	M49	Mx	0	2
34	M50	X	17.173	1
35	M50	Z	9.915	1
36	M50	Mx	0	1
37	MP3A	X	9.809	4
38	MP3A	Z	5.663	4
39	MP3A	Mx	.005	4
40	MP2A	X	8.701	4
41	MP2A	Z	5.023	4
42	MP2A	Mx	.004	4

**Member Point Loads (BLC 20 : Antenna Wi (150 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	7.481	2
2	MP2A	Z	12.958	2
3	MP2A	Mx	-.004	2
4	MP2A	X	7.481	4
5	MP2A	Z	12.958	4
6	MP2A	Mx	-.004	4
7	MP1A	X	17.018	.5
8	MP1A	Z	29.476	.5
9	MP1A	Mx	-.009	.5
10	MP1A	X	17.018	5
11	MP1A	Z	29.476	5
12	MP1A	Mx	-.009	5
13	MP4A	X	17.018	.5
14	MP4A	Z	29.476	.5
15	MP4A	Mx	-.009	.5
16	MP4A	X	17.018	5
17	MP4A	Z	29.476	5
18	MP4A	Mx	-.009	5
19	MP3A	X	15.138	1.5
20	MP3A	Z	26.22	1.5
21	MP3A	Mx	-.021	1.5
22	MP3A	X	15.138	5



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**Member Point Loads (BLC 20 : Antenna Wi (150 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
23	MP3A	Z	26.22	5
24	MP3A	Mx	-.021	5
25	MP3A	X	15.138	1.5
26	MP3A	Z	26.22	1.5
27	MP3A	Mx	.006	1.5
28	MP3A	X	15.138	5
29	MP3A	Z	26.22	5
30	MP3A	Mx	.006	5
31	M49	X	1.375	2
32	M49	Z	2.382	2
33	M49	Mx	0	2
34	M50	X	8.216	1
35	M50	Z	14.23	1
36	M50	Mx	0	1
37	MP3A	X	6.786	4
38	MP3A	Z	11.754	4
39	MP3A	Mx	.003	4
40	MP2A	X	6.573	4
41	MP2A	Z	11.384	4
42	MP2A	Mx	.003	4

**Member Point Loads (BLC 21 : Antenna Wi (180 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	2
2	MP2A	Z	17.477	2
3	MP2A	Mx	0	2
4	MP2A	X	0	4
5	MP2A	Z	17.477	4
6	MP2A	Mx	0	4
7	MP1A	X	0	.5
8	MP1A	Z	34.999	.5
9	MP1A	Mx	0	.5
10	MP1A	X	0	5
11	MP1A	Z	34.999	5
12	MP1A	Mx	0	5
13	MP4A	X	0	.5
14	MP4A	Z	34.999	.5
15	MP4A	Mx	0	.5
16	MP4A	X	0	5
17	MP4A	Z	34.999	5
18	MP4A	Mx	0	5
19	MP3A	X	0	1.5
20	MP3A	Z	32.899	1.5
21	MP3A	Mx	-.016	1.5
22	MP3A	X	0	5
23	MP3A	Z	32.899	5
24	MP3A	Mx	-.016	5
25	MP3A	X	0	1.5
26	MP3A	Z	32.899	1.5
27	MP3A	Mx	.016	1.5
28	MP3A	X	0	5
29	MP3A	Z	32.899	5
30	MP3A	Mx	.016	5
31	M49	X	0	2
32	M49	Z	2.673	2
33	M49	Mx	0	2



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**Member Point Loads (BLC 21 : Antenna Wi (180 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
34	M50	X	0	1
35	M50	Z	15.804	1
36	M50	Mx	0	1
37	MP3A	X	0	4
38	MP3A	Z	14.695	4
39	MP3A	Mx	0	4
40	MP2A	X	0	4
41	MP2A	Z	14.695	4
42	MP2A	Mx	0	4

**Member Point Loads (BLC 22 : Antenna Wi (210 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-7.481	2
2	MP2A	Z	12.958	2
3	MP2A	Mx	.004	2
4	MP2A	X	-7.481	4
5	MP2A	Z	12.958	4
6	MP2A	Mx	.004	4
7	MP1A	X	-17.018	.5
8	MP1A	Z	29.476	.5
9	MP1A	Mx	.009	.5
10	MP1A	X	-17.018	5
11	MP1A	Z	29.476	5
12	MP1A	Mx	.009	5
13	MP4A	X	-17.018	.5
14	MP4A	Z	29.476	.5
15	MP4A	Mx	.009	.5
16	MP4A	X	-17.018	5
17	MP4A	Z	29.476	5
18	MP4A	Mx	.009	5
19	MP3A	X	-15.138	1.5
20	MP3A	Z	26.22	1.5
21	MP3A	Mx	-.006	1.5
22	MP3A	X	-15.138	5
23	MP3A	Z	26.22	5
24	MP3A	Mx	-.006	5
25	MP3A	X	-15.138	1.5
26	MP3A	Z	26.22	1.5
27	MP3A	Mx	.021	1.5
28	MP3A	X	-15.138	5
29	MP3A	Z	26.22	5
30	MP3A	Mx	.021	5
31	M49	X	-1.507	2
32	M49	Z	2.61	2
33	M49	Mx	0	2
34	M50	X	-9.287	1
35	M50	Z	16.085	1
36	M50	Mx	0	1
37	MP3A	X	-6.786	4
38	MP3A	Z	11.754	4
39	MP3A	Mx	-.003	4
40	MP2A	X	-6.573	4
41	MP2A	Z	11.384	4
42	MP2A	Mx	-.003	4



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**Member Point Loads (BLC 23 : Antenna Wi (240 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-8.602	2
2	MP2A	Z	4.966	2
3	MP2A	Mx	.004	2
4	MP2A	X	-8.602	4
5	MP2A	Z	4.966	4
6	MP2A	Mx	.004	4
7	MP1A	X	-27.809	.5
8	MP1A	Z	16.056	.5
9	MP1A	Mx	.014	.5
10	MP1A	X	-27.809	5
11	MP1A	Z	16.056	5
12	MP1A	Mx	.014	5
13	MP4A	X	-27.809	.5
14	MP4A	Z	16.056	.5
15	MP4A	Mx	.014	.5
16	MP4A	X	-27.809	5
17	MP4A	Z	16.056	5
18	MP4A	Mx	.014	5
19	MP3A	X	-21.676	1.5
20	MP3A	Z	12.515	1.5
21	MP3A	Mx	.005	1.5
22	MP3A	X	-21.676	5
23	MP3A	Z	12.515	5
24	MP3A	Mx	.005	5
25	MP3A	X	-21.676	1.5
26	MP3A	Z	12.515	1.5
27	MP3A	Mx	.017	1.5
28	MP3A	X	-21.676	5
29	MP3A	Z	12.515	5
30	MP3A	Mx	.017	5
31	M49	X	-2.973	2
32	M49	Z	1.716	2
33	M49	Mx	0	2
34	M50	X	-19.028	1
35	M50	Z	10.986	1
36	M50	Mx	0	1
37	MP3A	X	-9.809	4
38	MP3A	Z	5.663	4
39	MP3A	Mx	-.005	4
40	MP2A	X	-8.701	4
41	MP2A	Z	5.023	4
42	MP2A	Mx	-.004	4

**Member Point Loads (BLC 24 : Antenna Wi (270 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-7.417	2
2	MP2A	Z	0	2
3	MP2A	Mx	.004	2
4	MP2A	X	-7.417	4
5	MP2A	Z	0	4
6	MP2A	Mx	.004	4
7	MP1A	X	-31.149	.5
8	MP1A	Z	0	.5
9	MP1A	Mx	.016	.5
10	MP1A	X	-31.149	5
11	MP1A	Z	0	5



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**Member Point Loads (BLC 24 : Antenna Wi (270 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
12	MP1A	Mx	.016	5
13	MP4A	X	-31.149	.5
14	MP4A	Z	0	.5
15	MP4A	Mx	.016	.5
16	MP4A	X	-31.149	5
17	MP4A	Z	0	5
18	MP4A	Mx	.016	5
19	MP3A	X	-22.407	1.5
20	MP3A	Z	0	1.5
21	MP3A	Mx	.011	1.5
22	MP3A	X	-22.407	5
23	MP3A	Z	0	5
24	MP3A	Mx	.011	5
25	MP3A	X	-22.407	1.5
26	MP3A	Z	0	1.5
27	MP3A	Mx	.011	1.5
28	MP3A	X	-22.407	5
29	MP3A	Z	0	5
30	MP3A	Mx	.011	5
31	M49	X	-3.51	2
32	M49	Z	0	2
33	M49	Mx	0	2
34	M50	X	-22.6	1
35	M50	Z	0	1
36	M50	Mx	0	1
37	MP3A	X	-10.204	4
38	MP3A	Z	0	4
39	MP3A	Mx	-.005	4
40	MP2A	X	-8.498	4
41	MP2A	Z	0	4
42	MP2A	Mx	-.004	4

**Member Point Loads (BLC 25 : Antenna Wi (300 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-8.602	2
2	MP2A	Z	-4.966	2
3	MP2A	Mx	.004	2
4	MP2A	X	-8.602	4
5	MP2A	Z	-4.966	4
6	MP2A	Mx	.004	4
7	MP1A	X	-27.809	.5
8	MP1A	Z	-16.056	.5
9	MP1A	Mx	.014	.5
10	MP1A	X	-27.809	5
11	MP1A	Z	-16.056	5
12	MP1A	Mx	.014	5
13	MP4A	X	-27.809	.5
14	MP4A	Z	-16.056	.5
15	MP4A	Mx	.014	.5
16	MP4A	X	-27.809	5
17	MP4A	Z	-16.056	5
18	MP4A	Mx	.014	5
19	MP3A	X	-21.676	1.5
20	MP3A	Z	-12.515	1.5
21	MP3A	Mx	.017	1.5
22	MP3A	X	-21.676	5





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**Member Point Loads (BLC 25 : Antenna Wi (300 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
23	MP3A	Z	-12.515	5
24	MP3A	Mx	.017	5
25	MP3A	X	-21.676	1.5
26	MP3A	Z	-12.515	1.5
27	MP3A	Mx	.005	1.5
28	MP3A	X	-21.676	5
29	MP3A	Z	-12.515	5
30	MP3A	Mx	.005	5
31	M49	X	-2.744	2
32	M49	Z	-1.584	2
33	M49	Mx	0	2
34	M50	X	-17.173	1
35	M50	Z	-9.915	1
36	M50	Mx	0	1
37	MP3A	X	-9.809	4
38	MP3A	Z	-5.663	4
39	MP3A	Mx	-.005	4
40	MP2A	X	-8.701	4
41	MP2A	Z	-5.023	4
42	MP2A	Mx	-.004	4

**Member Point Loads (BLC 26 : Antenna Wi (330 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-7.481	2
2	MP2A	Z	-12.958	2
3	MP2A	Mx	.004	2
4	MP2A	X	-7.481	4
5	MP2A	Z	-12.958	4
6	MP2A	Mx	.004	4
7	MP1A	X	-17.018	.5
8	MP1A	Z	-29.476	.5
9	MP1A	Mx	.009	.5
10	MP1A	X	-17.018	5
11	MP1A	Z	-29.476	5
12	MP1A	Mx	.009	5
13	MP4A	X	-17.018	.5
14	MP4A	Z	-29.476	.5
15	MP4A	Mx	.009	.5
16	MP4A	X	-17.018	5
17	MP4A	Z	-29.476	5
18	MP4A	Mx	.009	5
19	MP3A	X	-15.138	1.5
20	MP3A	Z	-26.22	1.5
21	MP3A	Mx	.021	1.5
22	MP3A	X	-15.138	5
23	MP3A	Z	-26.22	5
24	MP3A	Mx	.021	5
25	MP3A	X	-15.138	1.5
26	MP3A	Z	-26.22	1.5
27	MP3A	Mx	-.006	1.5
28	MP3A	X	-15.138	5
29	MP3A	Z	-26.22	5
30	MP3A	Mx	-.006	5
31	M49	X	-1.375	2
32	M49	Z	-2.382	2
33	M49	Mx	0	2



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**Member Point Loads (BLC 26 : Antenna Wi (330 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
34	M50	X	-8.216	1
35	M50	Z	-14.23	1
36	M50	Mx	0	1
37	MP3A	X	-6.786	4
38	MP3A	Z	-11.754	4
39	MP3A	Mx	-.003	4
40	MP2A	X	-6.573	4
41	MP2A	Z	-11.384	4
42	MP2A	Mx	-.003	4

**Member Point Loads (BLC 27 : Antenna Wm (0 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	2
2	MP2A	Z	-5.598	2
3	MP2A	Mx	0	2
4	MP2A	X	0	4
5	MP2A	Z	-5.598	4
6	MP2A	Mx	0	4
7	MP1A	X	0	.5
8	MP1A	Z	-11.625	.5
9	MP1A	Mx	0	.5
10	MP1A	X	0	5
11	MP1A	Z	-11.625	5
12	MP1A	Mx	0	5
13	MP4A	X	0	.5
14	MP4A	Z	-11.625	.5
15	MP4A	Mx	0	.5
16	MP4A	X	0	5
17	MP4A	Z	-11.625	5
18	MP4A	Mx	0	5
19	MP3A	X	0	1.5
20	MP3A	Z	-10.85	1.5
21	MP3A	Mx	.005	1.5
22	MP3A	X	0	5
23	MP3A	Z	-10.85	5
24	MP3A	Mx	.005	5
25	MP3A	X	0	1.5
26	MP3A	Z	-10.85	1.5
27	MP3A	Mx	-.005	1.5
28	MP3A	X	0	5
29	MP3A	Z	-10.85	5
30	MP3A	Mx	-.005	5
31	M49	X	0	2
32	M49	Z	-618	2
33	M49	Mx	0	2
34	M50	X	0	1
35	M50	Z	-4.777	1
36	M50	Mx	0	1
37	MP3A	X	0	4
38	MP3A	Z	-4.455	4
39	MP3A	Mx	0	4
40	MP2A	X	0	4
41	MP2A	Z	-4.455	4
42	MP2A	Mx	0	4



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**Member Point Loads (BLC 28 : Antenna Wm (30 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	2.373	2
2	MP2A	Z	-4.11	2
3	MP2A	Mx	-.001	2
4	MP2A	X	2.373	4
5	MP2A	Z	-4.11	4
6	MP2A	Mx	-.001	4
7	MP1A	X	5.64	.5
8	MP1A	Z	-9.769	.5
9	MP1A	Mx	-.003	.5
10	MP1A	X	5.64	5
11	MP1A	Z	-9.769	5
12	MP1A	Mx	-.003	5
13	MP4A	X	5.64	.5
14	MP4A	Z	-9.769	.5
15	MP4A	Mx	-.003	.5
16	MP4A	X	5.64	5
17	MP4A	Z	-9.769	5
18	MP4A	Mx	-.003	5
19	MP3A	X	4.96	1.5
20	MP3A	Z	-8.59	1.5
21	MP3A	Mx	.002	1.5
22	MP3A	X	4.96	5
23	MP3A	Z	-8.59	5
24	MP3A	Mx	.002	5
25	MP3A	X	4.96	1.5
26	MP3A	Z	-8.59	1.5
27	MP3A	Mx	-.007	1.5
28	MP3A	X	4.96	5
29	MP3A	Z	-8.59	5
30	MP3A	Mx	-.007	5
31	M49	X	.361	2
32	M49	Z	-.625	2
33	M49	Mx	0	2
34	M50	X	2.861	1
35	M50	Z	-4.956	1
36	M50	Mx	0	1
37	MP3A	X	2.043	4
38	MP3A	Z	-3.538	4
39	MP3A	Mx	.001	4
40	MP2A	X	1.972	4
41	MP2A	Z	-3.415	4
42	MP2A	Mx	.000986	4

**Member Point Loads (BLC 29 : Antenna Wm (60 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	2.635	2
2	MP2A	Z	-1.522	2
3	MP2A	Mx	-.001	2
4	MP2A	X	2.635	4
5	MP2A	Z	-1.522	4
6	MP2A	Mx	-.001	4
7	MP1A	X	9.172	.5
8	MP1A	Z	-5.296	.5
9	MP1A	Mx	-.005	.5
10	MP1A	X	9.172	5
11	MP1A	Z	-5.296	5



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**Member Point Loads (BLC 29 : Antenna Wm (60 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
12	MP1A	Mx	-0.005	5
13	MP4A	X	9.172	.5
14	MP4A	Z	-5.296	.5
15	MP4A	Mx	-0.005	.5
16	MP4A	X	9.172	5
17	MP4A	Z	-5.296	5
18	MP4A	Mx	-0.005	5
19	MP3A	X	6.978	1.5
20	MP3A	Z	-4.029	1.5
21	MP3A	Mx	-0.001	1.5
22	MP3A	X	6.978	5
23	MP3A	Z	-4.029	5
24	MP3A	Mx	-0.001	5
25	MP3A	X	6.978	1.5
26	MP3A	Z	-4.029	1.5
27	MP3A	Mx	-0.006	1.5
28	MP3A	X	6.978	5
29	MP3A	Z	-4.029	5
30	MP3A	Mx	-0.006	5
31	M49	X	.736	2
32	M49	Z	-4.25	2
33	M49	Mx	0	2
34	M50	X	5.96	1
35	M50	Z	-3.441	1
36	M50	Mx	0	1
37	MP3A	X	2.898	4
38	MP3A	Z	-1.673	4
39	MP3A	Mx	.001	4
40	MP2A	X	2.531	4
41	MP2A	Z	-1.461	4
42	MP2A	Mx	.001	4

**Member Point Loads (BLC 30 : Antenna Wm (90 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	2.192	2
2	MP2A	Z	0	2
3	MP2A	Mx	-0.001	2
4	MP2A	X	2.192	4
5	MP2A	Z	0	4
6	MP2A	Mx	-0.001	4
7	MP1A	X	10.247	.5
8	MP1A	Z	0	.5
9	MP1A	Mx	-0.005	.5
10	MP1A	X	10.247	5
11	MP1A	Z	0	5
12	MP1A	Mx	-0.005	5
13	MP4A	X	10.247	.5
14	MP4A	Z	0	.5
15	MP4A	Mx	-0.005	.5
16	MP4A	X	10.247	5
17	MP4A	Z	0	5
18	MP4A	Mx	-0.005	5
19	MP3A	X	7.126	1.5
20	MP3A	Z	0	1.5
21	MP3A	Mx	-0.004	1.5
22	MP3A	X	7.126	5



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**Member Point Loads (BLC 30 : Antenna Wm (90 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
23	MP3A	Z	0	5
24	MP3A	Mx	-.004	5
25	MP3A	X	7.126	1.5
26	MP3A	Z	0	1.5
27	MP3A	Mx	-.004	1.5
28	MP3A	X	7.126	5
29	MP3A	Z	0	5
30	MP3A	Mx	-.004	5
31	M49	X	.873	2
32	M49	Z	0	2
33	M49	Mx	0	2
34	M50	X	7.096	1
35	M50	Z	0	1
36	M50	Mx	0	1
37	MP3A	X	2.978	4
38	MP3A	Z	0	4
39	MP3A	Mx	.001	4
40	MP2A	X	2.412	4
41	MP2A	Z	0	4
42	MP2A	Mx	.001	4

**Member Point Loads (BLC 31 : Antenna Wm (120 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	2.635	2
2	MP2A	Z	1.522	2
3	MP2A	Mx	-.001	2
4	MP2A	X	2.635	4
5	MP2A	Z	1.522	4
6	MP2A	Mx	-.001	4
7	MP1A	X	9.172	.5
8	MP1A	Z	5.296	.5
9	MP1A	Mx	-.005	.5
10	MP1A	X	9.172	5
11	MP1A	Z	5.296	5
12	MP1A	Mx	-.005	5
13	MP4A	X	9.172	.5
14	MP4A	Z	5.296	.5
15	MP4A	Mx	-.005	.5
16	MP4A	X	9.172	5
17	MP4A	Z	5.296	5
18	MP4A	Mx	-.005	5
19	MP3A	X	6.978	1.5
20	MP3A	Z	4.029	1.5
21	MP3A	Mx	-.006	1.5
22	MP3A	X	6.978	5
23	MP3A	Z	4.029	5
24	MP3A	Mx	-.006	5
25	MP3A	X	6.978	1.5
26	MP3A	Z	4.029	1.5
27	MP3A	Mx	-.001	1.5
28	MP3A	X	6.978	5
29	MP3A	Z	4.029	5
30	MP3A	Mx	-.001	5
31	M49	X	.666	2
32	M49	Z	.385	2
33	M49	Mx	0	2



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**Member Point Loads (BLC 31 : Antenna Wm (120 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
34	M50	X	5.327	1
35	M50	Z	3.075	1
36	M50	Mx	0	1
37	MP3A	X	2.898	4
38	MP3A	Z	1.673	4
39	MP3A	Mx	.001	4
40	MP2A	X	2.531	4
41	MP2A	Z	1.461	4
42	MP2A	Mx	.001	4

**Member Point Loads (BLC 32 : Antenna Wm (150 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	2.373	2
2	MP2A	Z	4.11	2
3	MP2A	Mx	-.001	2
4	MP2A	X	2.373	4
5	MP2A	Z	4.11	4
6	MP2A	Mx	-.001	4
7	MP1A	X	5.64	.5
8	MP1A	Z	9.769	.5
9	MP1A	Mx	-.003	.5
10	MP1A	X	5.64	5
11	MP1A	Z	9.769	5
12	MP1A	Mx	-.003	5
13	MP4A	X	5.64	.5
14	MP4A	Z	9.769	.5
15	MP4A	Mx	-.003	.5
16	MP4A	X	5.64	5
17	MP4A	Z	9.769	5
18	MP4A	Mx	-.003	5
19	MP3A	X	4.96	1.5
20	MP3A	Z	8.59	1.5
21	MP3A	Mx	-.007	1.5
22	MP3A	X	4.96	5
23	MP3A	Z	8.59	5
24	MP3A	Mx	-.007	5
25	MP3A	X	4.96	1.5
26	MP3A	Z	8.59	1.5
27	MP3A	Mx	.002	1.5
28	MP3A	X	4.96	5
29	MP3A	Z	8.59	5
30	MP3A	Mx	.002	5
31	M49	X	.321	2
32	M49	Z	.556	2
33	M49	Mx	0	2
34	M50	X	2.496	1
35	M50	Z	4.323	1
36	M50	Mx	0	1
37	MP3A	X	2.043	4
38	MP3A	Z	3.538	4
39	MP3A	Mx	.001	4
40	MP2A	X	1.972	4
41	MP2A	Z	3.415	4
42	MP2A	Mx	.000986	4





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**Member Point Loads (BLC 33 : Antenna Wm (180 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	2
2	MP2A	Z	5.598	2
3	MP2A	Mx	0	2
4	MP2A	X	0	4
5	MP2A	Z	5.598	4
6	MP2A	Mx	0	4
7	MP1A	X	0	.5
8	MP1A	Z	11.625	.5
9	MP1A	Mx	0	.5
10	MP1A	X	0	5
11	MP1A	Z	11.625	5
12	MP1A	Mx	0	5
13	MP4A	X	0	.5
14	MP4A	Z	11.625	.5
15	MP4A	Mx	0	.5
16	MP4A	X	0	5
17	MP4A	Z	11.625	5
18	MP4A	Mx	0	5
19	MP3A	X	0	1.5
20	MP3A	Z	10.85	1.5
21	MP3A	Mx	-.005	1.5
22	MP3A	X	0	5
23	MP3A	Z	10.85	5
24	MP3A	Mx	-.005	5
25	MP3A	X	0	1.5
26	MP3A	Z	10.85	1.5
27	MP3A	Mx	.005	1.5
28	MP3A	X	0	5
29	MP3A	Z	10.85	5
30	MP3A	Mx	.005	5
31	M49	X	0	2
32	M49	Z	.618	2
33	M49	Mx	0	2
34	M50	X	0	1
35	M50	Z	4.777	1
36	M50	Mx	0	1
37	MP3A	X	0	4
38	MP3A	Z	4.455	4
39	MP3A	Mx	0	4
40	MP2A	X	0	4
41	MP2A	Z	4.455	4
42	MP2A	Mx	0	4

**Member Point Loads (BLC 34 : Antenna Wm (210 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-2.373	2
2	MP2A	Z	4.11	2
3	MP2A	Mx	.001	2
4	MP2A	X	-2.373	4
5	MP2A	Z	4.11	4
6	MP2A	Mx	.001	4
7	MP1A	X	-5.64	.5
8	MP1A	Z	9.769	.5
9	MP1A	Mx	.003	.5
10	MP1A	X	-5.64	5
11	MP1A	Z	9.769	5



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**Member Point Loads (BLC 34 : Antenna Wm (210 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
12	MP1A	Mx	.003	5
13	MP4A	X	-5.64	.5
14	MP4A	Z	9.769	.5
15	MP4A	Mx	.003	.5
16	MP4A	X	-5.64	5
17	MP4A	Z	9.769	5
18	MP4A	Mx	.003	5
19	MP3A	X	-4.96	1.5
20	MP3A	Z	8.59	1.5
21	MP3A	Mx	-.002	1.5
22	MP3A	X	-4.96	5
23	MP3A	Z	8.59	5
24	MP3A	Mx	-.002	5
25	MP3A	X	-4.96	1.5
26	MP3A	Z	8.59	1.5
27	MP3A	Mx	.007	1.5
28	MP3A	X	-4.96	5
29	MP3A	Z	8.59	5
30	MP3A	Mx	.007	5
31	M49	X	-.361	2
32	M49	Z	.625	2
33	M49	Mx	0	2
34	M50	X	-2.861	1
35	M50	Z	4.956	1
36	M50	Mx	0	1
37	MP3A	X	-2.043	4
38	MP3A	Z	3.538	4
39	MP3A	Mx	-.001	4
40	MP2A	X	-1.972	4
41	MP2A	Z	3.415	4
42	MP2A	Mx	-.000986	4

**Member Point Loads (BLC 35 : Antenna Wm (240 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-2.635	2
2	MP2A	Z	1.522	2
3	MP2A	Mx	.001	2
4	MP2A	X	-2.635	4
5	MP2A	Z	1.522	4
6	MP2A	Mx	.001	4
7	MP1A	X	-9.172	.5
8	MP1A	Z	5.296	.5
9	MP1A	Mx	.005	.5
10	MP1A	X	-9.172	5
11	MP1A	Z	5.296	5
12	MP1A	Mx	.005	5
13	MP4A	X	-9.172	.5
14	MP4A	Z	5.296	.5
15	MP4A	Mx	.005	.5
16	MP4A	X	-9.172	5
17	MP4A	Z	5.296	5
18	MP4A	Mx	.005	5
19	MP3A	X	-6.978	1.5
20	MP3A	Z	4.029	1.5
21	MP3A	Mx	.001	1.5
22	MP3A	X	-6.978	5

**Member Point Loads (BLC 35 : Antenna Wm (240 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
23	MP3A	Z	4.029	5
24	MP3A	Mx	.001	5
25	MP3A	X	-6.978	1.5
26	MP3A	Z	4.029	1.5
27	MP3A	Mx	.006	1.5
28	MP3A	X	-6.978	5
29	MP3A	Z	4.029	5
30	MP3A	Mx	.006	5
31	M49	X	-.736	2
32	M49	Z	.425	2
33	M49	Mx	0	2
34	M50	X	-5.96	1
35	M50	Z	3.441	1
36	M50	Mx	0	1
37	MP3A	X	-2.898	4
38	MP3A	Z	1.673	4
39	MP3A	Mx	-.001	4
40	MP2A	X	-2.531	4
41	MP2A	Z	1.461	4
42	MP2A	Mx	-.001	4

**Member Point Loads (BLC 36 : Antenna Wm (270 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-2.192	2
2	MP2A	Z	0	2
3	MP2A	Mx	.001	2
4	MP2A	X	-2.192	4
5	MP2A	Z	0	4
6	MP2A	Mx	.001	4
7	MP1A	X	-10.247	.5
8	MP1A	Z	0	.5
9	MP1A	Mx	.005	.5
10	MP1A	X	-10.247	5
11	MP1A	Z	0	5
12	MP1A	Mx	.005	5
13	MP4A	X	-10.247	.5
14	MP4A	Z	0	.5
15	MP4A	Mx	.005	.5
16	MP4A	X	-10.247	5
17	MP4A	Z	0	5
18	MP4A	Mx	.005	5
19	MP3A	X	-7.126	1.5
20	MP3A	Z	0	1.5
21	MP3A	Mx	.004	1.5
22	MP3A	X	-7.126	5
23	MP3A	Z	0	5
24	MP3A	Mx	.004	5
25	MP3A	X	-7.126	1.5
26	MP3A	Z	0	1.5
27	MP3A	Mx	.004	1.5
28	MP3A	X	-7.126	5
29	MP3A	Z	0	5
30	MP3A	Mx	.004	5
31	M49	X	-.873	2
32	M49	Z	0	2
33	M49	Mx	0	2



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**Member Point Loads (BLC 36 : Antenna Wm (270 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
34	M50	X	-7.096	1
35	M50	Z	0	1
36	M50	Mx	0	1
37	MP3A	X	-2.978	4
38	MP3A	Z	0	4
39	MP3A	Mx	-.001	4
40	MP2A	X	-2.412	4
41	MP2A	Z	0	4
42	MP2A	Mx	-.001	4

**Member Point Loads (BLC 37 : Antenna Wm (300 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-2.635	2
2	MP2A	Z	-1.522	2
3	MP2A	Mx	.001	2
4	MP2A	X	-2.635	4
5	MP2A	Z	-1.522	4
6	MP2A	Mx	.001	4
7	MP1A	X	-9.172	.5
8	MP1A	Z	-5.296	.5
9	MP1A	Mx	.005	.5
10	MP1A	X	-9.172	5
11	MP1A	Z	-5.296	5
12	MP1A	Mx	.005	5
13	MP4A	X	-9.172	.5
14	MP4A	Z	-5.296	.5
15	MP4A	Mx	.005	.5
16	MP4A	X	-9.172	5
17	MP4A	Z	-5.296	5
18	MP4A	Mx	.005	5
19	MP3A	X	-6.978	1.5
20	MP3A	Z	-4.029	1.5
21	MP3A	Mx	.006	1.5
22	MP3A	X	-6.978	5
23	MP3A	Z	-4.029	5
24	MP3A	Mx	.006	5
25	MP3A	X	-6.978	1.5
26	MP3A	Z	-4.029	1.5
27	MP3A	Mx	.001	1.5
28	MP3A	X	-6.978	5
29	MP3A	Z	-4.029	5
30	MP3A	Mx	.001	5
31	M49	X	-.666	2
32	M49	Z	-.385	2
33	M49	Mx	0	2
34	M50	X	-5.327	1
35	M50	Z	-3.075	1
36	M50	Mx	0	1
37	MP3A	X	-2.898	4
38	MP3A	Z	-1.673	4
39	MP3A	Mx	-.001	4
40	MP2A	X	-2.531	4
41	MP2A	Z	-1.461	4
42	MP2A	Mx	-.001	4



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**Member Point Loads (BLC 38 : Antenna Wm (330 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-2.373	2
2	MP2A	Z	-4.11	2
3	MP2A	Mx	.001	2
4	MP2A	X	-2.373	4
5	MP2A	Z	-4.11	4
6	MP2A	Mx	.001	4
7	MP1A	X	-5.64	.5
8	MP1A	Z	-9.769	.5
9	MP1A	Mx	.003	.5
10	MP1A	X	-5.64	5
11	MP1A	Z	-9.769	5
12	MP1A	Mx	.003	5
13	MP4A	X	-5.64	.5
14	MP4A	Z	-9.769	.5
15	MP4A	Mx	.003	.5
16	MP4A	X	-5.64	5
17	MP4A	Z	-9.769	5
18	MP4A	Mx	.003	5
19	MP3A	X	-4.96	1.5
20	MP3A	Z	-8.59	1.5
21	MP3A	Mx	.007	1.5
22	MP3A	X	-4.96	5
23	MP3A	Z	-8.59	5
24	MP3A	Mx	.007	5
25	MP3A	X	-4.96	1.5
26	MP3A	Z	-8.59	1.5
27	MP3A	Mx	-.002	1.5
28	MP3A	X	-4.96	5
29	MP3A	Z	-8.59	5
30	MP3A	Mx	-.002	5
31	M49	X	-.321	2
32	M49	Z	-.556	2
33	M49	Mx	0	2
34	M50	X	-2.496	1
35	M50	Z	-4.323	1
36	M50	Mx	0	1
37	MP3A	X	-2.043	4
38	MP3A	Z	-3.538	4
39	MP3A	Mx	-.001	4
40	MP2A	X	-1.972	4
41	MP2A	Z	-3.415	4
42	MP2A	Mx	-.000986	4

**Member Point Loads (BLC 77 : Lm1)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	M1	Y	-500	%66

**Member Point Loads (BLC 78 : Lm2)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	M1	Y	-500	%34

**Member Point Loads (BLC 79 : Lv1)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	M1	Y	-250	0



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**Member Point Loads (BLC 80 : Lv2)**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-250	%50

**Member Distributed Loads (BLC 40 : Structure Di)**

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	Y	-5.369	-5.369	0	%100
2	M2	Y	-5.369	-5.369	0	%100
3	M13	Y	-6.287	-6.287	0	%100
4	M14	Y	-6.287	-6.287	0	%100
5	M15	Y	-6.287	-6.287	0	%100
6	M16	Y	-6.287	-6.287	0	%100
7	M17	Y	-4.694	-4.694	0	%100
8	M18	Y	-4.694	-4.694	0	%100
9	M19	Y	-4.694	-4.694	0	%100
10	M20	Y	-4.694	-4.694	0	%100
11	M21	Y	-6.287	-6.287	0	%100
12	M22	Y	-6.287	-6.287	0	%100
13	M23	Y	-6.287	-6.287	0	%100
14	M24	Y	-6.287	-6.287	0	%100
15	M25	Y	-2.502	-2.502	0	%100
16	M26	Y	-2.502	-2.502	0	%100
17	M27	Y	-2.502	-2.502	0	%100
18	M28	Y	-2.502	-2.502	0	%100
19	M31	Y	-4.694	-4.694	0	%100
20	M32	Y	-4.694	-4.694	0	%100
21	M44	Y	-2.333	-2.333	0	%100
22	M45	Y	-2.333	-2.333	0	%100
23	M46	Y	-2.333	-2.333	0	%100
24	M47	Y	-2.333	-2.333	0	%100
25	MP1A	Y	-4.694	-4.694	0	%100
26	MP2A	Y	-4.694	-4.694	0	%100
27	MP3A	Y	-4.694	-4.694	0	%100
28	MP4A	Y	-4.694	-4.694	0	%100
29	M49	Y	-4.694	-4.694	0	%100
30	M50	Y	-4.694	-4.694	0	%100

**Member Distributed Loads (BLC 41 : Structure Wo (0 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-10.958	-10.958	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-10.958	-10.958	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	-4.326	-4.326	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	-4.326	-4.326	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	-4.326	-4.326	0	%100

**Member Distributed Loads (BLC 41 : Structure Wo (0 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
19	M20	X	0	0	0	%100
20	M20	Z	-4.326	-4.326	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	-2.382	-2.382	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	-2.382	-2.382	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	-2.382	-2.382	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-2.382	-2.382	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-2.467	-2.467	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-2.467	-2.467	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-2.467	-2.467	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-2.467	-2.467	0	%100
37	M31	X	0	0	0	%100
38	M31	Z	-4.151	-4.151	0	%100
39	M32	X	0	0	0	%100
40	M32	Z	-4.151	-4.151	0	%100
41	M44	X	0	0	0	%100
42	M44	Z	-2.382	-2.382	0	%100
43	M45	X	0	0	0	%100
44	M45	Z	-2.382	-2.382	0	%100
45	M46	X	0	0	0	%100
46	M46	Z	-2.382	-2.382	0	%100
47	M47	X	0	0	0	%100
48	M47	Z	-2.382	-2.382	0	%100
49	MP1A	X	0	0	0	%100
50	MP1A	Z	-9.052	-9.052	0	%100
51	MP2A	X	0	0	0	%100
52	MP2A	Z	-9.052	-9.052	0	%100
53	MP3A	X	0	0	0	%100
54	MP3A	Z	-9.052	-9.052	0	%100
55	MP4A	X	0	0	0	%100
56	MP4A	Z	-9.052	-9.052	0	%100
57	M49	X	0	0	0	%100
58	M49	Z	-8.249	-8.249	0	%100
59	M50	X	0	0	0	%100
60	M50	Z	-8.249	-8.249	0	%100

**Member Distributed Loads (BLC 42 : Structure Wo (30 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	4.109	4.109	0	%100
2	M1	Z	-7.117	-7.117	0	%100
3	M2	X	4.109	4.109	0	%100
4	M2	Z	-7.117	-7.117	0	%100
5	M13	X	.298	.298	0	%100
6	M13	Z	-.516	-.516	0	%100
7	M14	X	.298	.298	0	%100
8	M14	Z	-.516	-.516	0	%100
9	M15	X	.298	.298	0	%100
10	M15	Z	-.516	-.516	0	%100
11	M16	X	.298	.298	0	%100





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**Member Distributed Loads (BLC 42 : Structure Wo (30 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
12	M16	Z	-.516	-.516	0	%100
13	M17	X	.487	.487	0	%100
14	M17	Z	-.844	-.844	0	%100
15	M18	X	.487	.487	0	%100
16	M18	Z	-.844	-.844	0	%100
17	M19	X	3.421	3.421	0	%100
18	M19	Z	-5.925	-5.925	0	%100
19	M20	X	3.421	3.421	0	%100
20	M20	Z	-5.925	-5.925	0	%100
21	M21	X	.893	.893	0	%100
22	M21	Z	-1.547	-1.547	0	%100
23	M22	X	.893	.893	0	%100
24	M22	Z	-1.547	-1.547	0	%100
25	M23	X	.893	.893	0	%100
26	M23	Z	-1.547	-1.547	0	%100
27	M24	X	.893	.893	0	%100
28	M24	Z	-1.547	-1.547	0	%100
29	M25	X	.986	.986	0	%100
30	M25	Z	-1.709	-1.709	0	%100
31	M26	X	.986	.986	0	%100
32	M26	Z	-1.709	-1.709	0	%100
33	M27	X	1.419	1.419	0	%100
34	M27	Z	-2.458	-2.458	0	%100
35	M28	X	1.419	1.419	0	%100
36	M28	Z	-2.458	-2.458	0	%100
37	M31	X	4.122	4.122	0	%100
38	M31	Z	-7.14	-7.14	0	%100
39	M32	X	4.122	4.122	0	%100
40	M32	Z	-7.14	-7.14	0	%100
41	M44	X	1.191	1.191	0	%100
42	M44	Z	-2.063	-2.063	0	%100
43	M45	X	1.191	1.191	0	%100
44	M45	Z	-2.063	-2.063	0	%100
45	M46	X	1.191	1.191	0	%100
46	M46	Z	-2.063	-2.063	0	%100
47	M47	X	1.191	1.191	0	%100
48	M47	Z	-2.063	-2.063	0	%100
49	MP1A	X	4.526	4.526	0	%100
50	MP1A	Z	-7.839	-7.839	0	%100
51	MP2A	X	4.526	4.526	0	%100
52	MP2A	Z	-7.839	-7.839	0	%100
53	MP3A	X	4.526	4.526	0	%100
54	MP3A	Z	-7.839	-7.839	0	%100
55	MP4A	X	4.526	4.526	0	%100
56	MP4A	Z	-7.839	-7.839	0	%100
57	M49	X	4.125	4.125	0	%100
58	M49	Z	-7.144	-7.144	0	%100
59	M50	X	4.125	4.125	0	%100
60	M50	Z	-7.144	-7.144	0	%100

**Member Distributed Loads (BLC 43 : Structure Wo (60 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	2.372	2.372	0	%100
2	M1	Z	-1.37	-1.37	0	%100
3	M2	X	2.372	2.372	0	%100
4	M2	Z	-1.37	-1.37	0	%100



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**Member Distributed Loads (BLC 43 : Structure Wo (60 Deg)) (Continued)**

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
5	M13	X	1.547	1.547	0 %100
6	M13	Z	-.893	-.893	0 %100
7	M14	X	1.547	1.547	0 %100
8	M14	Z	-.893	-.893	0 %100
9	M15	X	1.547	1.547	0 %100
10	M15	Z	-.893	-.893	0 %100
11	M16	X	1.547	1.547	0 %100
12	M16	Z	-.893	-.893	0 %100
13	M17	X	.119	.119	0 %100
14	M17	Z	-.069	-.069	0 %100
15	M18	X	.119	.119	0 %100
16	M18	Z	-.069	-.069	0 %100
17	M19	X	5.201	5.201	0 %100
18	M19	Z	-3.003	-3.003	0 %100
19	M20	X	5.201	5.201	0 %100
20	M20	Z	-3.003	-3.003	0 %100
21	M21	X	.516	.516	0 %100
22	M21	Z	-.298	-.298	0 %100
23	M22	X	.516	.516	0 %100
24	M22	Z	-.298	-.298	0 %100
25	M23	X	.516	.516	0 %100
26	M23	Z	-.298	-.298	0 %100
27	M24	X	.516	.516	0 %100
28	M24	Z	-.298	-.298	0 %100
29	M25	X	1.602	1.602	0 %100
30	M25	Z	-.925	-.925	0 %100
31	M26	X	1.602	1.602	0 %100
32	M26	Z	-.925	-.925	0 %100
33	M27	X	2.351	2.351	0 %100
34	M27	Z	-1.357	-1.357	0 %100
35	M28	X	2.351	2.351	0 %100
36	M28	Z	-1.357	-1.357	0 %100
37	M31	X	7.465	7.465	0 %100
38	M31	Z	-4.31	-4.31	0 %100
39	M32	X	7.465	7.465	0 %100
40	M32	Z	-4.31	-4.31	0 %100
41	M44	X	2.063	2.063	0 %100
42	M44	Z	-1.191	-1.191	0 %100
43	M45	X	2.063	2.063	0 %100
44	M45	Z	-1.191	-1.191	0 %100
45	M46	X	2.063	2.063	0 %100
46	M46	Z	-1.191	-1.191	0 %100
47	M47	X	2.063	2.063	0 %100
48	M47	Z	-1.191	-1.191	0 %100
49	MP1A	X	7.839	7.839	0 %100
50	MP1A	Z	-4.526	-4.526	0 %100
51	MP2A	X	7.839	7.839	0 %100
52	MP2A	Z	-4.526	-4.526	0 %100
53	MP3A	X	7.839	7.839	0 %100
54	MP3A	Z	-4.526	-4.526	0 %100
55	MP4A	X	7.839	7.839	0 %100
56	MP4A	Z	-4.526	-4.526	0 %100
57	M49	X	7.144	7.144	0 %100
58	M49	Z	-4.125	-4.125	0 %100
59	M50	X	7.144	7.144	0 %100
60	M50	Z	-4.125	-4.125	0 %100



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**Member Distributed Loads (BLC 44 : Structure Wo (90 Deg))**

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]	
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	2.382	2.382	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	2.382	2.382	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	2.382	2.382	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	2.382	2.382	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	2.653	2.653	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	2.653	2.653	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	2.653	2.653	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	2.653	2.653	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	2.22	2.22	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	2.22	2.22	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	2.22	2.22	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	2.22	2.22	0	%100
36	M28	Z	0	0	0	%100
37	M31	X	4.901	4.901	0	%100
38	M31	Z	0	0	0	%100
39	M32	X	4.901	4.901	0	%100
40	M32	Z	0	0	0	%100
41	M44	X	2.382	2.382	0	%100
42	M44	Z	0	0	0	%100
43	M45	X	2.382	2.382	0	%100
44	M45	Z	0	0	0	%100
45	M46	X	2.382	2.382	0	%100
46	M46	Z	0	0	0	%100
47	M47	X	2.382	2.382	0	%100
48	M47	Z	0	0	0	%100
49	MP1A	X	9.052	9.052	0	%100
50	MP1A	Z	0	0	0	%100
51	MP2A	X	9.052	9.052	0	%100
52	MP2A	Z	0	0	0	%100
53	MP3A	X	9.052	9.052	0	%100
54	MP3A	Z	0	0	0	%100
55	MP4A	X	9.052	9.052	0	%100
56	MP4A	Z	0	0	0	%100
57	M49	X	8.249	8.249	0	%100



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**Member Distributed Loads (BLC 44 : Structure Wo (90 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
58	M49	Z	0	0	0	%100
59	M50	X	8.249	8.249	0	%100
60	M50	Z	0	0	0	%100

**Member Distributed Loads (BLC 45 : Structure Wo (120 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	2.372	2.372	0	%100
2	M1	Z	1.37	1.37	0	%100
3	M2	X	2.372	2.372	0	%100
4	M2	Z	1.37	1.37	0	%100
5	M13	X	1.547	1.547	0	%100
6	M13	Z	.893	.893	0	%100
7	M14	X	1.547	1.547	0	%100
8	M14	Z	.893	.893	0	%100
9	M15	X	1.547	1.547	0	%100
10	M15	Z	.893	.893	0	%100
11	M16	X	1.547	1.547	0	%100
12	M16	Z	.893	.893	0	%100
13	M17	X	5.201	5.201	0	%100
14	M17	Z	3.003	3.003	0	%100
15	M18	X	5.201	5.201	0	%100
16	M18	Z	3.003	3.003	0	%100
17	M19	X	.119	.119	0	%100
18	M19	Z	.069	.069	0	%100
19	M20	X	.119	.119	0	%100
20	M20	Z	.069	.069	0	%100
21	M21	X	.516	.516	0	%100
22	M21	Z	.298	.298	0	%100
23	M22	X	.516	.516	0	%100
24	M22	Z	.298	.298	0	%100
25	M23	X	.516	.516	0	%100
26	M23	Z	.298	.298	0	%100
27	M24	X	.516	.516	0	%100
28	M24	Z	.298	.298	0	%100
29	M25	X	2.351	2.351	0	%100
30	M25	Z	1.357	1.357	0	%100
31	M26	X	2.351	2.351	0	%100
32	M26	Z	1.357	1.357	0	%100
33	M27	X	1.602	1.602	0	%100
34	M27	Z	.925	.925	0	%100
35	M28	X	1.602	1.602	0	%100
36	M28	Z	.925	.925	0	%100
37	M31	X	.699	.699	0	%100
38	M31	Z	.404	.404	0	%100
39	M32	X	.699	.699	0	%100
40	M32	Z	.404	.404	0	%100
41	M44	X	2.063	2.063	0	%100
42	M44	Z	1.191	1.191	0	%100
43	M45	X	2.063	2.063	0	%100
44	M45	Z	1.191	1.191	0	%100
45	M46	X	2.063	2.063	0	%100
46	M46	Z	1.191	1.191	0	%100
47	M47	X	2.063	2.063	0	%100
48	M47	Z	1.191	1.191	0	%100
49	MP1A	X	7.839	7.839	0	%100
50	MP1A	Z	4.526	4.526	0	%100



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**Member Distributed Loads (BLC 45 : Structure Wo (120 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
51	MP2A	X	7.839	7.839	0	%100
52	MP2A	Z	4.526	4.526	0	%100
53	MP3A	X	7.839	7.839	0	%100
54	MP3A	Z	4.526	4.526	0	%100
55	MP4A	X	7.839	7.839	0	%100
56	MP4A	Z	4.526	4.526	0	%100
57	M49	X	7.144	7.144	0	%100
58	M49	Z	4.125	4.125	0	%100
59	M50	X	7.144	7.144	0	%100
60	M50	Z	4.125	4.125	0	%100

**Member Distributed Loads (BLC 46 : Structure Wo (150 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	4.109	4.109	0	%100
2	M1	Z	7.117	7.117	0	%100
3	M2	X	4.109	4.109	0	%100
4	M2	Z	7.117	7.117	0	%100
5	M13	X	.298	.298	0	%100
6	M13	Z	.516	.516	0	%100
7	M14	X	.298	.298	0	%100
8	M14	Z	.516	.516	0	%100
9	M15	X	.298	.298	0	%100
10	M15	Z	.516	.516	0	%100
11	M16	X	.298	.298	0	%100
12	M16	Z	.516	.516	0	%100
13	M17	X	3.421	3.421	0	%100
14	M17	Z	5.925	5.925	0	%100
15	M18	X	3.421	3.421	0	%100
16	M18	Z	5.925	5.925	0	%100
17	M19	X	.487	.487	0	%100
18	M19	Z	.844	.844	0	%100
19	M20	X	.487	.487	0	%100
20	M20	Z	.844	.844	0	%100
21	M21	X	.893	.893	0	%100
22	M21	Z	1.547	1.547	0	%100
23	M22	X	.893	.893	0	%100
24	M22	Z	1.547	1.547	0	%100
25	M23	X	.893	.893	0	%100
26	M23	Z	1.547	1.547	0	%100
27	M24	X	.893	.893	0	%100
28	M24	Z	1.547	1.547	0	%100
29	M25	X	1.419	1.419	0	%100
30	M25	Z	2.458	2.458	0	%100
31	M26	X	1.419	1.419	0	%100
32	M26	Z	2.458	2.458	0	%100
33	M27	X	.986	.986	0	%100
34	M27	Z	1.709	1.709	0	%100
35	M28	X	.986	.986	0	%100
36	M28	Z	1.709	1.709	0	%100
37	M31	X	.216	.216	0	%100
38	M31	Z	.374	.374	0	%100
39	M32	X	.216	.216	0	%100
40	M32	Z	.374	.374	0	%100
41	M44	X	1.191	1.191	0	%100
42	M44	Z	2.063	2.063	0	%100
43	M45	X	1.191	1.191	0	%100

**Member Distributed Loads (BLC 46 : Structure Wo (150 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
44	M45	Z	2.063	2.063	0	%100
45	M46	X	1.191	1.191	0	%100
46	M46	Z	2.063	2.063	0	%100
47	M47	X	1.191	1.191	0	%100
48	M47	Z	2.063	2.063	0	%100
49	MP1A	X	4.526	4.526	0	%100
50	MP1A	Z	7.839	7.839	0	%100
51	MP2A	X	4.526	4.526	0	%100
52	MP2A	Z	7.839	7.839	0	%100
53	MP3A	X	4.526	4.526	0	%100
54	MP3A	Z	7.839	7.839	0	%100
55	MP4A	X	4.526	4.526	0	%100
56	MP4A	Z	7.839	7.839	0	%100
57	M49	X	4.125	4.125	0	%100
58	M49	Z	7.144	7.144	0	%100
59	M50	X	4.125	4.125	0	%100
60	M50	Z	7.144	7.144	0	%100

**Member Distributed Loads (BLC 47 : Structure Wo (180 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	0	0	0	%100
2	M1	Z	10.958	10.958	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	10.958	10.958	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	4.326	4.326	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	4.326	4.326	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	4.326	4.326	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	4.326	4.326	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	2.382	2.382	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	2.382	2.382	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	2.382	2.382	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	2.382	2.382	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	2.467	2.467	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	2.467	2.467	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	2.467	2.467	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	2.467	2.467	0	%100

**Member Distributed Loads (BLC 47 : Structure Wo (180 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
37	M31	X	0	0	0	%100
38	M31	Z	4.151	4.151	0	%100
39	M32	X	0	0	0	%100
40	M32	Z	4.151	4.151	0	%100
41	M44	X	0	0	0	%100
42	M44	Z	2.382	2.382	0	%100
43	M45	X	0	0	0	%100
44	M45	Z	2.382	2.382	0	%100
45	M46	X	0	0	0	%100
46	M46	Z	2.382	2.382	0	%100
47	M47	X	0	0	0	%100
48	M47	Z	2.382	2.382	0	%100
49	MP1A	X	0	0	0	%100
50	MP1A	Z	9.052	9.052	0	%100
51	MP2A	X	0	0	0	%100
52	MP2A	Z	9.052	9.052	0	%100
53	MP3A	X	0	0	0	%100
54	MP3A	Z	9.052	9.052	0	%100
55	MP4A	X	0	0	0	%100
56	MP4A	Z	9.052	9.052	0	%100
57	M49	X	0	0	0	%100
58	M49	Z	8.249	8.249	0	%100
59	M50	X	0	0	0	%100
60	M50	Z	8.249	8.249	0	%100

**Member Distributed Loads (BLC 48 : Structure Wo (210 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	-4.109	-4.109	0	%100
2	M1	Z	7.117	7.117	0	%100
3	M2	X	-4.109	-4.109	0	%100
4	M2	Z	7.117	7.117	0	%100
5	M13	X	-.298	-.298	0	%100
6	M13	Z	.516	.516	0	%100
7	M14	X	-.298	-.298	0	%100
8	M14	Z	.516	.516	0	%100
9	M15	X	-.298	-.298	0	%100
10	M15	Z	.516	.516	0	%100
11	M16	X	-.298	-.298	0	%100
12	M16	Z	.516	.516	0	%100
13	M17	X	-.487	-.487	0	%100
14	M17	Z	.844	.844	0	%100
15	M18	X	-.487	-.487	0	%100
16	M18	Z	.844	.844	0	%100
17	M19	X	-3.421	-3.421	0	%100
18	M19	Z	5.925	5.925	0	%100
19	M20	X	-3.421	-3.421	0	%100
20	M20	Z	5.925	5.925	0	%100
21	M21	X	-.893	-.893	0	%100
22	M21	Z	1.547	1.547	0	%100
23	M22	X	-.893	-.893	0	%100
24	M22	Z	1.547	1.547	0	%100
25	M23	X	-.893	-.893	0	%100
26	M23	Z	1.547	1.547	0	%100
27	M24	X	-.893	-.893	0	%100
28	M24	Z	1.547	1.547	0	%100
29	M25	X	-.986	-.986	0	%100



**Member Distributed Loads (BLC 48 : Structure Wo (210 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
30	M25	Z	1.709	1.709	0	%100
31	M26	X	-.986	-.986	0	%100
32	M26	Z	1.709	1.709	0	%100
33	M27	X	-1.419	-1.419	0	%100
34	M27	Z	2.458	2.458	0	%100
35	M28	X	-1.419	-1.419	0	%100
36	M28	Z	2.458	2.458	0	%100
37	M31	X	-4.122	-4.122	0	%100
38	M31	Z	7.14	7.14	0	%100
39	M32	X	-4.122	-4.122	0	%100
40	M32	Z	7.14	7.14	0	%100
41	M44	X	-1.191	-1.191	0	%100
42	M44	Z	2.063	2.063	0	%100
43	M45	X	-1.191	-1.191	0	%100
44	M45	Z	2.063	2.063	0	%100
45	M46	X	-1.191	-1.191	0	%100
46	M46	Z	2.063	2.063	0	%100
47	M47	X	-1.191	-1.191	0	%100
48	M47	Z	2.063	2.063	0	%100
49	MP1A	X	-4.526	-4.526	0	%100
50	MP1A	Z	7.839	7.839	0	%100
51	MP2A	X	-4.526	-4.526	0	%100
52	MP2A	Z	7.839	7.839	0	%100
53	MP3A	X	-4.526	-4.526	0	%100
54	MP3A	Z	7.839	7.839	0	%100
55	MP4A	X	-4.526	-4.526	0	%100
56	MP4A	Z	7.839	7.839	0	%100
57	M49	X	-4.125	-4.125	0	%100
58	M49	Z	7.144	7.144	0	%100
59	M50	X	-4.125	-4.125	0	%100
60	M50	Z	7.144	7.144	0	%100

**Member Distributed Loads (BLC 49 : Structure Wo (240 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	-2.372	-2.372	0	%100
2	M1	Z	1.37	1.37	0	%100
3	M2	X	-2.372	-2.372	0	%100
4	M2	Z	1.37	1.37	0	%100
5	M13	X	-1.547	-1.547	0	%100
6	M13	Z	.893	.893	0	%100
7	M14	X	-1.547	-1.547	0	%100
8	M14	Z	.893	.893	0	%100
9	M15	X	-1.547	-1.547	0	%100
10	M15	Z	.893	.893	0	%100
11	M16	X	-1.547	-1.547	0	%100
12	M16	Z	.893	.893	0	%100
13	M17	X	-.119	-.119	0	%100
14	M17	Z	.069	.069	0	%100
15	M18	X	-.119	-.119	0	%100
16	M18	Z	.069	.069	0	%100
17	M19	X	-5.201	-5.201	0	%100
18	M19	Z	3.003	3.003	0	%100
19	M20	X	-5.201	-5.201	0	%100
20	M20	Z	3.003	3.003	0	%100
21	M21	X	-.516	-.516	0	%100
22	M21	Z	.298	.298	0	%100



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**Member Distributed Loads (BLC 49 : Structure Wo (240 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
23	M22	X	-516	-516	0	%100
24	M22	Z	.298	.298	0	%100
25	M23	X	-516	-516	0	%100
26	M23	Z	.298	.298	0	%100
27	M24	X	-516	-516	0	%100
28	M24	Z	.298	.298	0	%100
29	M25	X	-1.602	-1.602	0	%100
30	M25	Z	.925	.925	0	%100
31	M26	X	-1.602	-1.602	0	%100
32	M26	Z	.925	.925	0	%100
33	M27	X	-2.351	-2.351	0	%100
34	M27	Z	1.357	1.357	0	%100
35	M28	X	-2.351	-2.351	0	%100
36	M28	Z	1.357	1.357	0	%100
37	M31	X	-7.465	-7.465	0	%100
38	M31	Z	4.31	4.31	0	%100
39	M32	X	-7.465	-7.465	0	%100
40	M32	Z	4.31	4.31	0	%100
41	M44	X	-2.063	-2.063	0	%100
42	M44	Z	1.191	1.191	0	%100
43	M45	X	-2.063	-2.063	0	%100
44	M45	Z	1.191	1.191	0	%100
45	M46	X	-2.063	-2.063	0	%100
46	M46	Z	1.191	1.191	0	%100
47	M47	X	-2.063	-2.063	0	%100
48	M47	Z	1.191	1.191	0	%100
49	MP1A	X	-7.839	-7.839	0	%100
50	MP1A	Z	4.526	4.526	0	%100
51	MP2A	X	-7.839	-7.839	0	%100
52	MP2A	Z	4.526	4.526	0	%100
53	MP3A	X	-7.839	-7.839	0	%100
54	MP3A	Z	4.526	4.526	0	%100
55	MP4A	X	-7.839	-7.839	0	%100
56	MP4A	Z	4.526	4.526	0	%100
57	M49	X	-7.144	-7.144	0	%100
58	M49	Z	4.125	4.125	0	%100
59	M50	X	-7.144	-7.144	0	%100
60	M50	Z	4.125	4.125	0	%100

**Member Distributed Loads (BLC 50 : Structure Wo (270 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	-2.382	-2.382	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	-2.382	-2.382	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	-2.382	-2.382	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	-2.382	-2.382	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	-2.653	-2.653	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	-2.653	-2.653	0	%100

**Member Distributed Loads (BLC 50 : Structure Wo (270 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
16	M18	Z	0	0	0	%100
17	M19	X	-2.653	-2.653	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	-2.653	-2.653	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	-2.22	-2.22	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	-2.22	-2.22	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	-2.22	-2.22	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	-2.22	-2.22	0	%100
36	M28	Z	0	0	0	%100
37	M31	X	-4.901	-4.901	0	%100
38	M31	Z	0	0	0	%100
39	M32	X	-4.901	-4.901	0	%100
40	M32	Z	0	0	0	%100
41	M44	X	-2.382	-2.382	0	%100
42	M44	Z	0	0	0	%100
43	M45	X	-2.382	-2.382	0	%100
44	M45	Z	0	0	0	%100
45	M46	X	-2.382	-2.382	0	%100
46	M46	Z	0	0	0	%100
47	M47	X	-2.382	-2.382	0	%100
48	M47	Z	0	0	0	%100
49	MP1A	X	-9.052	-9.052	0	%100
50	MP1A	Z	0	0	0	%100
51	MP2A	X	-9.052	-9.052	0	%100
52	MP2A	Z	0	0	0	%100
53	MP3A	X	-9.052	-9.052	0	%100
54	MP3A	Z	0	0	0	%100
55	MP4A	X	-9.052	-9.052	0	%100
56	MP4A	Z	0	0	0	%100
57	M49	X	-8.249	-8.249	0	%100
58	M49	Z	0	0	0	%100
59	M50	X	-8.249	-8.249	0	%100
60	M50	Z	0	0	0	%100

**Member Distributed Loads (BLC 51 : Structure Wo (300 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	-2.372	-2.372	0	%100
2	M1	Z	-1.37	-1.37	0	%100
3	M2	X	-2.372	-2.372	0	%100
4	M2	Z	-1.37	-1.37	0	%100
5	M13	X	-1.547	-1.547	0	%100
6	M13	Z	-0.893	-0.893	0	%100
7	M14	X	-1.547	-1.547	0	%100
8	M14	Z	-0.893	-0.893	0	%100

**Member Distributed Loads (BLC 51 : Structure Wo (300 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
9	M15	X	-1.547	-1.547	0	%100
10	M15	Z	-.893	-.893	0	%100
11	M16	X	-1.547	-1.547	0	%100
12	M16	Z	-.893	-.893	0	%100
13	M17	X	-5.201	-5.201	0	%100
14	M17	Z	-3.003	-3.003	0	%100
15	M18	X	-5.201	-5.201	0	%100
16	M18	Z	-3.003	-3.003	0	%100
17	M19	X	-.119	-.119	0	%100
18	M19	Z	-.069	-.069	0	%100
19	M20	X	-.119	-.119	0	%100
20	M20	Z	-.069	-.069	0	%100
21	M21	X	-.516	-.516	0	%100
22	M21	Z	-.298	-.298	0	%100
23	M22	X	-.516	-.516	0	%100
24	M22	Z	-.298	-.298	0	%100
25	M23	X	-.516	-.516	0	%100
26	M23	Z	-.298	-.298	0	%100
27	M24	X	-.516	-.516	0	%100
28	M24	Z	-.298	-.298	0	%100
29	M25	X	-2.351	-2.351	0	%100
30	M25	Z	-1.357	-1.357	0	%100
31	M26	X	-2.351	-2.351	0	%100
32	M26	Z	-1.357	-1.357	0	%100
33	M27	X	-1.602	-1.602	0	%100
34	M27	Z	-.925	-.925	0	%100
35	M28	X	-1.602	-1.602	0	%100
36	M28	Z	-.925	-.925	0	%100
37	M31	X	-.699	-.699	0	%100
38	M31	Z	-.404	-.404	0	%100
39	M32	X	-.699	-.699	0	%100
40	M32	Z	-.404	-.404	0	%100
41	M44	X	-2.063	-2.063	0	%100
42	M44	Z	-1.191	-1.191	0	%100
43	M45	X	-2.063	-2.063	0	%100
44	M45	Z	-1.191	-1.191	0	%100
45	M46	X	-2.063	-2.063	0	%100
46	M46	Z	-1.191	-1.191	0	%100
47	M47	X	-2.063	-2.063	0	%100
48	M47	Z	-1.191	-1.191	0	%100
49	MP1A	X	-7.839	-7.839	0	%100
50	MP1A	Z	-4.526	-4.526	0	%100
51	MP2A	X	-7.839	-7.839	0	%100
52	MP2A	Z	-4.526	-4.526	0	%100
53	MP3A	X	-7.839	-7.839	0	%100
54	MP3A	Z	-4.526	-4.526	0	%100
55	MP4A	X	-7.839	-7.839	0	%100
56	MP4A	Z	-4.526	-4.526	0	%100
57	M49	X	-7.144	-7.144	0	%100
58	M49	Z	-4.125	-4.125	0	%100
59	M50	X	-7.144	-7.144	0	%100
60	M50	Z	-4.125	-4.125	0	%100

**Member Distributed Loads (BLC 52 : Structure Wo (330 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	-4.109	-4.109	0	%100



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**Member Distributed Loads (BLC 52 : Structure Wo (330 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
2	M1	Z	-7.117	-7.117	0	%100
3	M2	X	-4.109	-4.109	0	%100
4	M2	Z	-7.117	-7.117	0	%100
5	M13	X	-.298	-.298	0	%100
6	M13	Z	-.516	-.516	0	%100
7	M14	X	-.298	-.298	0	%100
8	M14	Z	-.516	-.516	0	%100
9	M15	X	-.298	-.298	0	%100
10	M15	Z	-.516	-.516	0	%100
11	M16	X	-.298	-.298	0	%100
12	M16	Z	-.516	-.516	0	%100
13	M17	X	-3.421	-3.421	0	%100
14	M17	Z	-5.925	-5.925	0	%100
15	M18	X	-3.421	-3.421	0	%100
16	M18	Z	-5.925	-5.925	0	%100
17	M19	X	-.487	-.487	0	%100
18	M19	Z	-.844	-.844	0	%100
19	M20	X	-.487	-.487	0	%100
20	M20	Z	-.844	-.844	0	%100
21	M21	X	-.893	-.893	0	%100
22	M21	Z	-1.547	-1.547	0	%100
23	M22	X	-.893	-.893	0	%100
24	M22	Z	-1.547	-1.547	0	%100
25	M23	X	-.893	-.893	0	%100
26	M23	Z	-1.547	-1.547	0	%100
27	M24	X	-.893	-.893	0	%100
28	M24	Z	-1.547	-1.547	0	%100
29	M25	X	-1.419	-1.419	0	%100
30	M25	Z	-2.458	-2.458	0	%100
31	M26	X	-1.419	-1.419	0	%100
32	M26	Z	-2.458	-2.458	0	%100
33	M27	X	-.986	-.986	0	%100
34	M27	Z	-1.709	-1.709	0	%100
35	M28	X	-.986	-.986	0	%100
36	M28	Z	-1.709	-1.709	0	%100
37	M31	X	-.216	-.216	0	%100
38	M31	Z	-.374	-.374	0	%100
39	M32	X	-.216	-.216	0	%100
40	M32	Z	-.374	-.374	0	%100
41	M44	X	-1.191	-1.191	0	%100
42	M44	Z	-2.063	-2.063	0	%100
43	M45	X	-1.191	-1.191	0	%100
44	M45	Z	-2.063	-2.063	0	%100
45	M46	X	-1.191	-1.191	0	%100
46	M46	Z	-2.063	-2.063	0	%100
47	M47	X	-1.191	-1.191	0	%100
48	M47	Z	-2.063	-2.063	0	%100
49	MP1A	X	-4.526	-4.526	0	%100
50	MP1A	Z	-7.839	-7.839	0	%100
51	MP2A	X	-4.526	-4.526	0	%100
52	MP2A	Z	-7.839	-7.839	0	%100
53	MP3A	X	-4.526	-4.526	0	%100
54	MP3A	Z	-7.839	-7.839	0	%100
55	MP4A	X	-4.526	-4.526	0	%100
56	MP4A	Z	-7.839	-7.839	0	%100
57	M49	X	-4.125	-4.125	0	%100
58	M49	Z	-7.144	-7.144	0	%100



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**Member Distributed Loads (BLC 52 : Structure Wo (330 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
59	M50	X	-4.125	-4.125	0	%100
60	M50	Z	-7.144	-7.144	0	%100

**Member Distributed Loads (BLC 53 : Structure Wi (0 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	0	0	0	%100
2	M1	Z	-3.364	-3.364	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-3.364	-3.364	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	-1.466	-1.466	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	-1.466	-1.466	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	-1.466	-1.466	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	-1.466	-1.466	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	-1.277	-1.277	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	-1.277	-1.277	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	-1.277	-1.277	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-1.277	-1.277	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-1.635	-1.635	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-1.635	-1.635	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-1.635	-1.635	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-1.635	-1.635	0	%100
37	M31	X	0	0	0	%100
38	M31	Z	-1.391	-1.391	0	%100
39	M32	X	0	0	0	%100
40	M32	Z	-1.391	-1.391	0	%100
41	M44	X	0	0	0	%100
42	M44	Z	-1.689	-1.689	0	%100
43	M45	X	0	0	0	%100
44	M45	Z	-1.689	-1.689	0	%100
45	M46	X	0	0	0	%100
46	M46	Z	-1.689	-1.689	0	%100
47	M47	X	0	0	0	%100
48	M47	Z	-1.689	-1.689	0	%100
49	MP1A	X	0	0	0	%100
50	MP1A	Z	-3.033	-3.033	0	%100
51	MP2A	X	0	0	0	%100



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**Member Distributed Loads (BLC 53 : Structure Wi (0 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
52	MP2A	Z	-3.033	-3.033	0	%100
53	MP3A	X	0	0	0	%100
54	MP3A	Z	-3.033	-3.033	0	%100
55	MP4A	X	0	0	0	%100
56	MP4A	Z	-3.033	-3.033	0	%100
57	M49	X	0	0	0	%100
58	M49	Z	-2.805	-2.805	0	%100
59	M50	X	0	0	0	%100
60	M50	Z	-2.805	-2.805	0	%100

**Member Distributed Loads (BLC 54 : Structure Wi (30 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	1.261	1.261	0	%100
2	M1	Z	-2.185	-2.185	0	%100
3	M2	X	1.261	1.261	0	%100
4	M2	Z	-2.185	-2.185	0	%100
5	M13	X	.158	.158	0	%100
6	M13	Z	-.274	-.274	0	%100
7	M14	X	.158	.158	0	%100
8	M14	Z	-.274	-.274	0	%100
9	M15	X	.158	.158	0	%100
10	M15	Z	-.274	-.274	0	%100
11	M16	X	.158	.158	0	%100
12	M16	Z	-.274	-.274	0	%100
13	M17	X	.165	.165	0	%100
14	M17	Z	-.286	-.286	0	%100
15	M18	X	.165	.165	0	%100
16	M18	Z	-.286	-.286	0	%100
17	M19	X	1.159	1.159	0	%100
18	M19	Z	-2.007	-2.007	0	%100
19	M20	X	1.159	1.159	0	%100
20	M20	Z	-2.007	-2.007	0	%100
21	M21	X	.479	.479	0	%100
22	M21	Z	-.829	-.829	0	%100
23	M22	X	.479	.479	0	%100
24	M22	Z	-.829	-.829	0	%100
25	M23	X	.479	.479	0	%100
26	M23	Z	-.829	-.829	0	%100
27	M24	X	.479	.479	0	%100
28	M24	Z	-.829	-.829	0	%100
29	M25	X	.654	.654	0	%100
30	M25	Z	-1.132	-1.132	0	%100
31	M26	X	.654	.654	0	%100
32	M26	Z	-1.132	-1.132	0	%100
33	M27	X	.94	.94	0	%100
34	M27	Z	-1.628	-1.628	0	%100
35	M28	X	.94	.94	0	%100
36	M28	Z	-1.628	-1.628	0	%100
37	M31	X	1.381	1.381	0	%100
38	M31	Z	-2.392	-2.392	0	%100
39	M32	X	1.381	1.381	0	%100
40	M32	Z	-2.392	-2.392	0	%100
41	M44	X	.844	.844	0	%100
42	M44	Z	-1.462	-1.462	0	%100
43	M45	X	.844	.844	0	%100
44	M45	Z	-1.462	-1.462	0	%100



**Member Distributed Loads (BLC 54 : Structure Wi (30 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
45	M46	X	.844	.844	0	%100
46	M46	Z	-1.462	-1.462	0	%100
47	M47	X	.844	.844	0	%100
48	M47	Z	-1.462	-1.462	0	%100
49	MP1A	X	1.516	1.516	0	%100
50	MP1A	Z	-2.627	-2.627	0	%100
51	MP2A	X	1.516	1.516	0	%100
52	MP2A	Z	-2.627	-2.627	0	%100
53	MP3A	X	1.516	1.516	0	%100
54	MP3A	Z	-2.627	-2.627	0	%100
55	MP4A	X	1.516	1.516	0	%100
56	MP4A	Z	-2.627	-2.627	0	%100
57	M49	X	1.403	1.403	0	%100
58	M49	Z	-2.429	-2.429	0	%100
59	M50	X	1.403	1.403	0	%100
60	M50	Z	-2.429	-2.429	0	%100

**Member Distributed Loads (BLC 55 : Structure Wi (60 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	.728	.728	0	%100
2	M1	Z	-.42	-.42	0	%100
3	M2	X	.728	.728	0	%100
4	M2	Z	-.42	-.42	0	%100
5	M13	X	.822	.822	0	%100
6	M13	Z	-.475	-.475	0	%100
7	M14	X	.822	.822	0	%100
8	M14	Z	-.475	-.475	0	%100
9	M15	X	.822	.822	0	%100
10	M15	Z	-.475	-.475	0	%100
11	M16	X	.822	.822	0	%100
12	M16	Z	-.475	-.475	0	%100
13	M17	X	.04	.04	0	%100
14	M17	Z	-.023	-.023	0	%100
15	M18	X	.04	.04	0	%100
16	M18	Z	-.023	-.023	0	%100
17	M19	X	1.762	1.762	0	%100
18	M19	Z	-1.017	-1.017	0	%100
19	M20	X	1.762	1.762	0	%100
20	M20	Z	-1.017	-1.017	0	%100
21	M21	X	.276	.276	0	%100
22	M21	Z	-.16	-.16	0	%100
23	M22	X	.276	.276	0	%100
24	M22	Z	-.16	-.16	0	%100
25	M23	X	.276	.276	0	%100
26	M23	Z	-.16	-.16	0	%100
27	M24	X	.276	.276	0	%100
28	M24	Z	-.16	-.16	0	%100
29	M25	X	1.061	1.061	0	%100
30	M25	Z	-.613	-.613	0	%100
31	M26	X	1.061	1.061	0	%100
32	M26	Z	-.613	-.613	0	%100
33	M27	X	1.558	1.558	0	%100
34	M27	Z	-.899	-.899	0	%100
35	M28	X	1.558	1.558	0	%100
36	M28	Z	-.899	-.899	0	%100
37	M31	X	2.501	2.501	0	%100



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**Member Distributed Loads (BLC 55 : Structure Wi (60 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
38	M31	Z	-1.444	-1.444	0	%100
39	M32	X	2.501	2.501	0	%100
40	M32	Z	-1.444	-1.444	0	%100
41	M44	X	1.462	1.462	0	%100
42	M44	Z	-.844	-.844	0	%100
43	M45	X	1.462	1.462	0	%100
44	M45	Z	-.844	-.844	0	%100
45	M46	X	1.462	1.462	0	%100
46	M46	Z	-.844	-.844	0	%100
47	M47	X	1.462	1.462	0	%100
48	M47	Z	-.844	-.844	0	%100
49	MP1A	X	2.627	2.627	0	%100
50	MP1A	Z	-1.516	-1.516	0	%100
51	MP2A	X	2.627	2.627	0	%100
52	MP2A	Z	-1.516	-1.516	0	%100
53	MP3A	X	2.627	2.627	0	%100
54	MP3A	Z	-1.516	-1.516	0	%100
55	MP4A	X	2.627	2.627	0	%100
56	MP4A	Z	-1.516	-1.516	0	%100
57	M49	X	2.429	2.429	0	%100
58	M49	Z	-1.403	-1.403	0	%100
59	M50	X	2.429	2.429	0	%100
60	M50	Z	-1.403	-1.403	0	%100

**Member Distributed Loads (BLC 56 : Structure Wi (90 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	1.266	1.266	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	1.266	1.266	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	1.266	1.266	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	1.266	1.266	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	.899	.899	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	.899	.899	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	.899	.899	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	.899	.899	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	1.471	1.471	0	%100
30	M25	Z	0	0	0	%100

**Member Distributed Loads (BLC 56 : Structure Wi (90 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
31	M26	X	1.471	1.471	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	1.471	1.471	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	1.471	1.471	0	%100
36	M28	Z	0	0	0	%100
37	M31	X	1.642	1.642	0	%100
38	M31	Z	0	0	0	%100
39	M32	X	1.642	1.642	0	%100
40	M32	Z	0	0	0	%100
41	M44	X	1.689	1.689	0	%100
42	M44	Z	0	0	0	%100
43	M45	X	1.689	1.689	0	%100
44	M45	Z	0	0	0	%100
45	M46	X	1.689	1.689	0	%100
46	M46	Z	0	0	0	%100
47	M47	X	1.689	1.689	0	%100
48	M47	Z	0	0	0	%100
49	MP1A	X	3.033	3.033	0	%100
50	MP1A	Z	0	0	0	%100
51	MP2A	X	3.033	3.033	0	%100
52	MP2A	Z	0	0	0	%100
53	MP3A	X	3.033	3.033	0	%100
54	MP3A	Z	0	0	0	%100
55	MP4A	X	3.033	3.033	0	%100
56	MP4A	Z	0	0	0	%100
57	M49	X	2.805	2.805	0	%100
58	M49	Z	0	0	0	%100
59	M50	X	2.805	2.805	0	%100
60	M50	Z	0	0	0	%100

**Member Distributed Loads (BLC 57 : Structure Wi (120 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	.728	.728	0	%100
2	M1	Z	.42	.42	0	%100
3	M2	X	.728	.728	0	%100
4	M2	Z	.42	.42	0	%100
5	M13	X	.822	.822	0	%100
6	M13	Z	.475	.475	0	%100
7	M14	X	.822	.822	0	%100
8	M14	Z	.475	.475	0	%100
9	M15	X	.822	.822	0	%100
10	M15	Z	.475	.475	0	%100
11	M16	X	.822	.822	0	%100
12	M16	Z	.475	.475	0	%100
13	M17	X	1.762	1.762	0	%100
14	M17	Z	1.017	1.017	0	%100
15	M18	X	1.762	1.762	0	%100
16	M18	Z	1.017	1.017	0	%100
17	M19	X	.04	.04	0	%100
18	M19	Z	.023	.023	0	%100
19	M20	X	.04	.04	0	%100
20	M20	Z	.023	.023	0	%100
21	M21	X	.276	.276	0	%100
22	M21	Z	.16	.16	0	%100
23	M22	X	.276	.276	0	%100

**Member Distributed Loads (BLC 57 : Structure Wi (120 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
24	M22	Z	.16	.16	0	%100
25	M23	X	.276	.276	0	%100
26	M23	Z	.16	.16	0	%100
27	M24	X	.276	.276	0	%100
28	M24	Z	.16	.16	0	%100
29	M25	X	1.558	1.558	0	%100
30	M25	Z	.899	.899	0	%100
31	M26	X	1.558	1.558	0	%100
32	M26	Z	.899	.899	0	%100
33	M27	X	1.061	1.061	0	%100
34	M27	Z	.613	.613	0	%100
35	M28	X	1.061	1.061	0	%100
36	M28	Z	.613	.613	0	%100
37	M31	X	.234	.234	0	%100
38	M31	Z	.135	.135	0	%100
39	M32	X	.234	.234	0	%100
40	M32	Z	.135	.135	0	%100
41	M44	X	1.462	1.462	0	%100
42	M44	Z	.844	.844	0	%100
43	M45	X	1.462	1.462	0	%100
44	M45	Z	.844	.844	0	%100
45	M46	X	1.462	1.462	0	%100
46	M46	Z	.844	.844	0	%100
47	M47	X	1.462	1.462	0	%100
48	M47	Z	.844	.844	0	%100
49	MP1A	X	2.627	2.627	0	%100
50	MP1A	Z	1.516	1.516	0	%100
51	MP2A	X	2.627	2.627	0	%100
52	MP2A	Z	1.516	1.516	0	%100
53	MP3A	X	2.627	2.627	0	%100
54	MP3A	Z	1.516	1.516	0	%100
55	MP4A	X	2.627	2.627	0	%100
56	MP4A	Z	1.516	1.516	0	%100
57	M49	X	2.429	2.429	0	%100
58	M49	Z	1.403	1.403	0	%100
59	M50	X	2.429	2.429	0	%100
60	M50	Z	1.403	1.403	0	%100

**Member Distributed Loads (BLC 58 : Structure Wi (150 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	1.261	1.261	0	%100
2	M1	Z	2.185	2.185	0	%100
3	M2	X	1.261	1.261	0	%100
4	M2	Z	2.185	2.185	0	%100
5	M13	X	.158	.158	0	%100
6	M13	Z	.274	.274	0	%100
7	M14	X	.158	.158	0	%100
8	M14	Z	.274	.274	0	%100
9	M15	X	.158	.158	0	%100
10	M15	Z	.274	.274	0	%100
11	M16	X	.158	.158	0	%100
12	M16	Z	.274	.274	0	%100
13	M17	X	1.159	1.159	0	%100
14	M17	Z	2.007	2.007	0	%100
15	M18	X	1.159	1.159	0	%100
16	M18	Z	2.007	2.007	0	%100



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**Member Distributed Loads (BLC 58 : Structure Wi (150 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
17	M19	X	.165	.165	0	%100
18	M19	Z	.286	.286	0	%100
19	M20	X	.165	.165	0	%100
20	M20	Z	.286	.286	0	%100
21	M21	X	.479	.479	0	%100
22	M21	Z	.829	.829	0	%100
23	M22	X	.479	.479	0	%100
24	M22	Z	.829	.829	0	%100
25	M23	X	.479	.479	0	%100
26	M23	Z	.829	.829	0	%100
27	M24	X	.479	.479	0	%100
28	M24	Z	.829	.829	0	%100
29	M25	X	.94	.94	0	%100
30	M25	Z	1.628	1.628	0	%100
31	M26	X	.94	.94	0	%100
32	M26	Z	1.628	1.628	0	%100
33	M27	X	.654	.654	0	%100
34	M27	Z	1.132	1.132	0	%100
35	M28	X	.654	.654	0	%100
36	M28	Z	1.132	1.132	0	%100
37	M31	X	.072	.072	0	%100
38	M31	Z	.125	.125	0	%100
39	M32	X	.072	.072	0	%100
40	M32	Z	.125	.125	0	%100
41	M44	X	.844	.844	0	%100
42	M44	Z	1.462	1.462	0	%100
43	M45	X	.844	.844	0	%100
44	M45	Z	1.462	1.462	0	%100
45	M46	X	.844	.844	0	%100
46	M46	Z	1.462	1.462	0	%100
47	M47	X	.844	.844	0	%100
48	M47	Z	1.462	1.462	0	%100
49	MP1A	X	1.516	1.516	0	%100
50	MP1A	Z	2.627	2.627	0	%100
51	MP2A	X	1.516	1.516	0	%100
52	MP2A	Z	2.627	2.627	0	%100
53	MP3A	X	1.516	1.516	0	%100
54	MP3A	Z	2.627	2.627	0	%100
55	MP4A	X	1.516	1.516	0	%100
56	MP4A	Z	2.627	2.627	0	%100
57	M49	X	1.403	1.403	0	%100
58	M49	Z	2.429	2.429	0	%100
59	M50	X	1.403	1.403	0	%100
60	M50	Z	2.429	2.429	0	%100

**Member Distributed Loads (BLC 59 : Structure Wi (180 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	3.364	3.364	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	3.364	3.364	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100

**Member Distributed Loads (BLC 59 : Structure Wi (180 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	1.466	1.466	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	1.466	1.466	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	1.466	1.466	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	1.466	1.466	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	1.277	1.277	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	1.277	1.277	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	1.277	1.277	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	1.277	1.277	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	1.635	1.635	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	1.635	1.635	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	1.635	1.635	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	1.635	1.635	0	%100
37	M31	X	0	0	0	%100
38	M31	Z	1.391	1.391	0	%100
39	M32	X	0	0	0	%100
40	M32	Z	1.391	1.391	0	%100
41	M44	X	0	0	0	%100
42	M44	Z	1.689	1.689	0	%100
43	M45	X	0	0	0	%100
44	M45	Z	1.689	1.689	0	%100
45	M46	X	0	0	0	%100
46	M46	Z	1.689	1.689	0	%100
47	M47	X	0	0	0	%100
48	M47	Z	1.689	1.689	0	%100
49	MP1A	X	0	0	0	%100
50	MP1A	Z	3.033	3.033	0	%100
51	MP2A	X	0	0	0	%100
52	MP2A	Z	3.033	3.033	0	%100
53	MP3A	X	0	0	0	%100
54	MP3A	Z	3.033	3.033	0	%100
55	MP4A	X	0	0	0	%100
56	MP4A	Z	3.033	3.033	0	%100
57	M49	X	0	0	0	%100
58	M49	Z	2.805	2.805	0	%100
59	M50	X	0	0	0	%100
60	M50	Z	2.805	2.805	0	%100

**Member Distributed Loads (BLC 60 : Structure Wi (210 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-1.261	-1.261	0	%100
2	M1	Z	2.185	2.185	0	%100



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**Member Distributed Loads (BLC 60 : Structure Wi (210 Deg)) (Continued)**

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
3	M2	X	-1.261	-1.261	0 %100
4	M2	Z	2.185	2.185	0 %100
5	M13	X	-.158	-.158	0 %100
6	M13	Z	.274	.274	0 %100
7	M14	X	-.158	-.158	0 %100
8	M14	Z	.274	.274	0 %100
9	M15	X	-.158	-.158	0 %100
10	M15	Z	.274	.274	0 %100
11	M16	X	-.158	-.158	0 %100
12	M16	Z	.274	.274	0 %100
13	M17	X	-.165	-.165	0 %100
14	M17	Z	.286	.286	0 %100
15	M18	X	-.165	-.165	0 %100
16	M18	Z	.286	.286	0 %100
17	M19	X	-1.159	-1.159	0 %100
18	M19	Z	2.007	2.007	0 %100
19	M20	X	-1.159	-1.159	0 %100
20	M20	Z	2.007	2.007	0 %100
21	M21	X	-.479	-.479	0 %100
22	M21	Z	.829	.829	0 %100
23	M22	X	-.479	-.479	0 %100
24	M22	Z	.829	.829	0 %100
25	M23	X	-.479	-.479	0 %100
26	M23	Z	.829	.829	0 %100
27	M24	X	-.479	-.479	0 %100
28	M24	Z	.829	.829	0 %100
29	M25	X	-.654	-.654	0 %100
30	M25	Z	1.132	1.132	0 %100
31	M26	X	-.654	-.654	0 %100
32	M26	Z	1.132	1.132	0 %100
33	M27	X	-.94	-.94	0 %100
34	M27	Z	1.628	1.628	0 %100
35	M28	X	-.94	-.94	0 %100
36	M28	Z	1.628	1.628	0 %100
37	M31	X	-1.381	-1.381	0 %100
38	M31	Z	2.392	2.392	0 %100
39	M32	X	-1.381	-1.381	0 %100
40	M32	Z	2.392	2.392	0 %100
41	M44	X	-.844	-.844	0 %100
42	M44	Z	1.462	1.462	0 %100
43	M45	X	-.844	-.844	0 %100
44	M45	Z	1.462	1.462	0 %100
45	M46	X	-.844	-.844	0 %100
46	M46	Z	1.462	1.462	0 %100
47	M47	X	-.844	-.844	0 %100
48	M47	Z	1.462	1.462	0 %100
49	MP1A	X	-1.516	-1.516	0 %100
50	MP1A	Z	2.627	2.627	0 %100
51	MP2A	X	-1.516	-1.516	0 %100
52	MP2A	Z	2.627	2.627	0 %100
53	MP3A	X	-1.516	-1.516	0 %100
54	MP3A	Z	2.627	2.627	0 %100
55	MP4A	X	-1.516	-1.516	0 %100
56	MP4A	Z	2.627	2.627	0 %100
57	M49	X	-1.403	-1.403	0 %100
58	M49	Z	2.429	2.429	0 %100
59	M50	X	-1.403	-1.403	0 %100





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**Member Distributed Loads (BLC 60 : Structure Wi (210 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
60	M50	Z	2.429	2.429	0	%100

**Member Distributed Loads (BLC 61 : Structure Wi (240 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-.728	-.728	0	%100
2	M1	Z	.42	.42	0	%100
3	M2	X	-.728	-.728	0	%100
4	M2	Z	.42	.42	0	%100
5	M13	X	-.822	-.822	0	%100
6	M13	Z	.475	.475	0	%100
7	M14	X	-.822	-.822	0	%100
8	M14	Z	.475	.475	0	%100
9	M15	X	-.822	-.822	0	%100
10	M15	Z	.475	.475	0	%100
11	M16	X	-.822	-.822	0	%100
12	M16	Z	.475	.475	0	%100
13	M17	X	-.04	-.04	0	%100
14	M17	Z	.023	.023	0	%100
15	M18	X	-.04	-.04	0	%100
16	M18	Z	.023	.023	0	%100
17	M19	X	-1.762	-1.762	0	%100
18	M19	Z	1.017	1.017	0	%100
19	M20	X	-1.762	-1.762	0	%100
20	M20	Z	1.017	1.017	0	%100
21	M21	X	-.276	-.276	0	%100
22	M21	Z	.16	.16	0	%100
23	M22	X	-.276	-.276	0	%100
24	M22	Z	.16	.16	0	%100
25	M23	X	-.276	-.276	0	%100
26	M23	Z	.16	.16	0	%100
27	M24	X	-.276	-.276	0	%100
28	M24	Z	.16	.16	0	%100
29	M25	X	-1.061	-1.061	0	%100
30	M25	Z	.613	.613	0	%100
31	M26	X	-1.061	-1.061	0	%100
32	M26	Z	.613	.613	0	%100
33	M27	X	-1.558	-1.558	0	%100
34	M27	Z	.899	.899	0	%100
35	M28	X	-1.558	-1.558	0	%100
36	M28	Z	.899	.899	0	%100
37	M31	X	-2.501	-2.501	0	%100
38	M31	Z	1.444	1.444	0	%100
39	M32	X	-2.501	-2.501	0	%100
40	M32	Z	1.444	1.444	0	%100
41	M44	X	-1.462	-1.462	0	%100
42	M44	Z	.844	.844	0	%100
43	M45	X	-1.462	-1.462	0	%100
44	M45	Z	.844	.844	0	%100
45	M46	X	-1.462	-1.462	0	%100
46	M46	Z	.844	.844	0	%100
47	M47	X	-1.462	-1.462	0	%100
48	M47	Z	.844	.844	0	%100
49	MP1A	X	-2.627	-2.627	0	%100
50	MP1A	Z	1.516	1.516	0	%100
51	MP2A	X	-2.627	-2.627	0	%100
52	MP2A	Z	1.516	1.516	0	%100



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**Member Distributed Loads (BLC 61 : Structure Wi (240 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
53	MP3A	X	-2.627	-2.627	0	%100
54	MP3A	Z	1.516	1.516	0	%100
55	MP4A	X	-2.627	-2.627	0	%100
56	MP4A	Z	1.516	1.516	0	%100
57	M49	X	-2.429	-2.429	0	%100
58	M49	Z	1.403	1.403	0	%100
59	M50	X	-2.429	-2.429	0	%100
60	M50	Z	1.403	1.403	0	%100

**Member Distributed Loads (BLC 62 : Structure Wi (270 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	-1.266	-1.266	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	-1.266	-1.266	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	-1.266	-1.266	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	-1.266	-1.266	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	-0.899	-0.899	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	-0.899	-0.899	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	-0.899	-0.899	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	-0.899	-0.899	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	-1.471	-1.471	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	-1.471	-1.471	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	-1.471	-1.471	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	-1.471	-1.471	0	%100
36	M28	Z	0	0	0	%100
37	M31	X	-1.642	-1.642	0	%100
38	M31	Z	0	0	0	%100
39	M32	X	-1.642	-1.642	0	%100
40	M32	Z	0	0	0	%100
41	M44	X	-1.689	-1.689	0	%100
42	M44	Z	0	0	0	%100
43	M45	X	-1.689	-1.689	0	%100
44	M45	Z	0	0	0	%100
45	M46	X	-1.689	-1.689	0	%100



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**Member Distributed Loads (BLC 62 : Structure Wi (270 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
46	M46	Z	0	0	0	%100
47	M47	X	-1.689	-1.689	0	%100
48	M47	Z	0	0	0	%100
49	MP1A	X	-3.033	-3.033	0	%100
50	MP1A	Z	0	0	0	%100
51	MP2A	X	-3.033	-3.033	0	%100
52	MP2A	Z	0	0	0	%100
53	MP3A	X	-3.033	-3.033	0	%100
54	MP3A	Z	0	0	0	%100
55	MP4A	X	-3.033	-3.033	0	%100
56	MP4A	Z	0	0	0	%100
57	M49	X	-2.805	-2.805	0	%100
58	M49	Z	0	0	0	%100
59	M50	X	-2.805	-2.805	0	%100
60	M50	Z	0	0	0	%100

**Member Distributed Loads (BLC 63 : Structure Wi (300 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-.728	-.728	0	%100
2	M1	Z	-.42	-.42	0	%100
3	M2	X	-.728	-.728	0	%100
4	M2	Z	-.42	-.42	0	%100
5	M13	X	-.822	-.822	0	%100
6	M13	Z	-.475	-.475	0	%100
7	M14	X	-.822	-.822	0	%100
8	M14	Z	-.475	-.475	0	%100
9	M15	X	-.822	-.822	0	%100
10	M15	Z	-.475	-.475	0	%100
11	M16	X	-.822	-.822	0	%100
12	M16	Z	-.475	-.475	0	%100
13	M17	X	-1.762	-1.762	0	%100
14	M17	Z	-1.017	-1.017	0	%100
15	M18	X	-1.762	-1.762	0	%100
16	M18	Z	-1.017	-1.017	0	%100
17	M19	X	-.04	-.04	0	%100
18	M19	Z	-.023	-.023	0	%100
19	M20	X	-.04	-.04	0	%100
20	M20	Z	-.023	-.023	0	%100
21	M21	X	-.276	-.276	0	%100
22	M21	Z	-.16	-.16	0	%100
23	M22	X	-.276	-.276	0	%100
24	M22	Z	-.16	-.16	0	%100
25	M23	X	-.276	-.276	0	%100
26	M23	Z	-.16	-.16	0	%100
27	M24	X	-.276	-.276	0	%100
28	M24	Z	-.16	-.16	0	%100
29	M25	X	-1.558	-1.558	0	%100
30	M25	Z	-.899	-.899	0	%100
31	M26	X	-1.558	-1.558	0	%100
32	M26	Z	-.899	-.899	0	%100
33	M27	X	-1.061	-1.061	0	%100
34	M27	Z	-.613	-.613	0	%100
35	M28	X	-1.061	-1.061	0	%100
36	M28	Z	-.613	-.613	0	%100
37	M31	X	-.234	-.234	0	%100
38	M31	Z	-.135	-.135	0	%100



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**Member Distributed Loads (BLC 63 : Structure Wi (300 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
39	M32	X	-0.234	-0.234	0	%100
40	M32	Z	-0.135	-0.135	0	%100
41	M44	X	-1.462	-1.462	0	%100
42	M44	Z	-0.844	-0.844	0	%100
43	M45	X	-1.462	-1.462	0	%100
44	M45	Z	-0.844	-0.844	0	%100
45	M46	X	-1.462	-1.462	0	%100
46	M46	Z	-0.844	-0.844	0	%100
47	M47	X	-1.462	-1.462	0	%100
48	M47	Z	-0.844	-0.844	0	%100
49	MP1A	X	-2.627	-2.627	0	%100
50	MP1A	Z	-1.516	-1.516	0	%100
51	MP2A	X	-2.627	-2.627	0	%100
52	MP2A	Z	-1.516	-1.516	0	%100
53	MP3A	X	-2.627	-2.627	0	%100
54	MP3A	Z	-1.516	-1.516	0	%100
55	MP4A	X	-2.627	-2.627	0	%100
56	MP4A	Z	-1.516	-1.516	0	%100
57	M49	X	-2.429	-2.429	0	%100
58	M49	Z	-1.403	-1.403	0	%100
59	M50	X	-2.429	-2.429	0	%100
60	M50	Z	-1.403	-1.403	0	%100

**Member Distributed Loads (BLC 64 : Structure Wi (330 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	-1.261	-1.261	0	%100
2	M1	Z	-2.185	-2.185	0	%100
3	M2	X	-1.261	-1.261	0	%100
4	M2	Z	-2.185	-2.185	0	%100
5	M13	X	-0.158	-0.158	0	%100
6	M13	Z	-0.274	-0.274	0	%100
7	M14	X	-0.158	-0.158	0	%100
8	M14	Z	-0.274	-0.274	0	%100
9	M15	X	-0.158	-0.158	0	%100
10	M15	Z	-0.274	-0.274	0	%100
11	M16	X	-0.158	-0.158	0	%100
12	M16	Z	-0.274	-0.274	0	%100
13	M17	X	-1.159	-1.159	0	%100
14	M17	Z	-2.007	-2.007	0	%100
15	M18	X	-1.159	-1.159	0	%100
16	M18	Z	-2.007	-2.007	0	%100
17	M19	X	-0.165	-0.165	0	%100
18	M19	Z	-0.286	-0.286	0	%100
19	M20	X	-0.165	-0.165	0	%100
20	M20	Z	-0.286	-0.286	0	%100
21	M21	X	-0.479	-0.479	0	%100
22	M21	Z	-0.829	-0.829	0	%100
23	M22	X	-0.479	-0.479	0	%100
24	M22	Z	-0.829	-0.829	0	%100
25	M23	X	-0.479	-0.479	0	%100
26	M23	Z	-0.829	-0.829	0	%100
27	M24	X	-0.479	-0.479	0	%100
28	M24	Z	-0.829	-0.829	0	%100
29	M25	X	-0.94	-0.94	0	%100
30	M25	Z	-1.628	-1.628	0	%100
31	M26	X	-0.94	-0.94	0	%100



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**Member Distributed Loads (BLC 64 : Structure Wi (330 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
32	M26	Z	-1.628	-1.628	0	%100
33	M27	X	-.654	-.654	0	%100
34	M27	Z	-1.132	-1.132	0	%100
35	M28	X	-.654	-.654	0	%100
36	M28	Z	-1.132	-1.132	0	%100
37	M31	X	-.072	-.072	0	%100
38	M31	Z	-.125	-.125	0	%100
39	M32	X	-.072	-.072	0	%100
40	M32	Z	-.125	-.125	0	%100
41	M44	X	-.844	-.844	0	%100
42	M44	Z	-1.462	-1.462	0	%100
43	M45	X	-.844	-.844	0	%100
44	M45	Z	-1.462	-1.462	0	%100
45	M46	X	-.844	-.844	0	%100
46	M46	Z	-1.462	-1.462	0	%100
47	M47	X	-.844	-.844	0	%100
48	M47	Z	-1.462	-1.462	0	%100
49	MP1A	X	-1.516	-1.516	0	%100
50	MP1A	Z	-2.627	-2.627	0	%100
51	MP2A	X	-1.516	-1.516	0	%100
52	MP2A	Z	-2.627	-2.627	0	%100
53	MP3A	X	-1.516	-1.516	0	%100
54	MP3A	Z	-2.627	-2.627	0	%100
55	MP4A	X	-1.516	-1.516	0	%100
56	MP4A	Z	-2.627	-2.627	0	%100
57	M49	X	-1.403	-1.403	0	%100
58	M49	Z	-2.429	-2.429	0	%100
59	M50	X	-1.403	-1.403	0	%100
60	M50	Z	-2.429	-2.429	0	%100

**Member Distributed Loads (BLC 65 : Structure Wm (0 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	-.685	-.685	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-.685	-.685	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	-.27	-.27	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	-.27	-.27	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	-.27	-.27	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	-.27	-.27	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	-.149	-.149	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	-.149	-.149	0	%100

**Member Distributed Loads (BLC 65 : Structure Wm (0 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
25	M23	X	0	0	0	%100
26	M23	Z	-.149	-.149	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-.149	-.149	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-.154	-.154	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-.154	-.154	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-.154	-.154	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-.154	-.154	0	%100
37	M31	X	0	0	0	%100
38	M31	Z	-.259	-.259	0	%100
39	M32	X	0	0	0	%100
40	M32	Z	-.259	-.259	0	%100
41	M44	X	0	0	0	%100
42	M44	Z	-.149	-.149	0	%100
43	M45	X	0	0	0	%100
44	M45	Z	-.149	-.149	0	%100
45	M46	X	0	0	0	%100
46	M46	Z	-.149	-.149	0	%100
47	M47	X	0	0	0	%100
48	M47	Z	-.149	-.149	0	%100
49	MP1A	X	0	0	0	%100
50	MP1A	Z	-.566	-.566	0	%100
51	MP2A	X	0	0	0	%100
52	MP2A	Z	-.566	-.566	0	%100
53	MP3A	X	0	0	0	%100
54	MP3A	Z	-.566	-.566	0	%100
55	MP4A	X	0	0	0	%100
56	MP4A	Z	-.566	-.566	0	%100
57	M49	X	0	0	0	%100
58	M49	Z	-.516	-.516	0	%100
59	M50	X	0	0	0	%100
60	M50	Z	-.516	-.516	0	%100

**Member Distributed Loads (BLC 66 : Structure Wm (30 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	.257	.257	0	%100
2	M1	Z	-.445	-.445	0	%100
3	M2	X	.257	.257	0	%100
4	M2	Z	-.445	-.445	0	%100
5	M13	X	.019	.019	0	%100
6	M13	Z	-.032	-.032	0	%100
7	M14	X	.019	.019	0	%100
8	M14	Z	-.032	-.032	0	%100
9	M15	X	.019	.019	0	%100
10	M15	Z	-.032	-.032	0	%100
11	M16	X	.019	.019	0	%100
12	M16	Z	-.032	-.032	0	%100
13	M17	X	.03	.03	0	%100
14	M17	Z	-.053	-.053	0	%100
15	M18	X	.03	.03	0	%100
16	M18	Z	-.053	-.053	0	%100
17	M19	X	.214	.214	0	%100



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**Member Distributed Loads (BLC 66 : Structure Wm (30 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
18	M19	Z	-.37	-.37	0	%100
19	M20	X	.214	.214	0	%100
20	M20	Z	-.37	-.37	0	%100
21	M21	X	.056	.056	0	%100
22	M21	Z	-.097	-.097	0	%100
23	M22	X	.056	.056	0	%100
24	M22	Z	-.097	-.097	0	%100
25	M23	X	.056	.056	0	%100
26	M23	Z	-.097	-.097	0	%100
27	M24	X	.056	.056	0	%100
28	M24	Z	-.097	-.097	0	%100
29	M25	X	.062	.062	0	%100
30	M25	Z	-.107	-.107	0	%100
31	M26	X	.062	.062	0	%100
32	M26	Z	-.107	-.107	0	%100
33	M27	X	.089	.089	0	%100
34	M27	Z	-.154	-.154	0	%100
35	M28	X	.089	.089	0	%100
36	M28	Z	-.154	-.154	0	%100
37	M31	X	.258	.258	0	%100
38	M31	Z	-.446	-.446	0	%100
39	M32	X	.258	.258	0	%100
40	M32	Z	-.446	-.446	0	%100
41	M44	X	.074	.074	0	%100
42	M44	Z	-.129	-.129	0	%100
43	M45	X	.074	.074	0	%100
44	M45	Z	-.129	-.129	0	%100
45	M46	X	.074	.074	0	%100
46	M46	Z	-.129	-.129	0	%100
47	M47	X	.074	.074	0	%100
48	M47	Z	-.129	-.129	0	%100
49	MP1A	X	.283	.283	0	%100
50	MP1A	Z	-.49	-.49	0	%100
51	MP2A	X	.283	.283	0	%100
52	MP2A	Z	-.49	-.49	0	%100
53	MP3A	X	.283	.283	0	%100
54	MP3A	Z	-.49	-.49	0	%100
55	MP4A	X	.283	.283	0	%100
56	MP4A	Z	-.49	-.49	0	%100
57	M49	X	.258	.258	0	%100
58	M49	Z	-.446	-.446	0	%100
59	M50	X	.258	.258	0	%100
60	M50	Z	-.446	-.446	0	%100

**Member Distributed Loads (BLC 67 : Structure Wm (60 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.148	.148	0	%100
2	M1	Z	-.086	-.086	0	%100
3	M2	X	.148	.148	0	%100
4	M2	Z	-.086	-.086	0	%100
5	M13	X	.097	.097	0	%100
6	M13	Z	-.056	-.056	0	%100
7	M14	X	.097	.097	0	%100
8	M14	Z	-.056	-.056	0	%100
9	M15	X	.097	.097	0	%100
10	M15	Z	-.056	-.056	0	%100



**Member Distributed Loads (BLC 67 : Structure Wm (60 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
11	M16	X	.097	.097	0	%100
12	M16	Z	-.056	-.056	0	%100
13	M17	X	.007	.007	0	%100
14	M17	Z	-.004	-.004	0	%100
15	M18	X	.007	.007	0	%100
16	M18	Z	-.004	-.004	0	%100
17	M19	X	.325	.325	0	%100
18	M19	Z	-.188	-.188	0	%100
19	M20	X	.325	.325	0	%100
20	M20	Z	-.188	-.188	0	%100
21	M21	X	.032	.032	0	%100
22	M21	Z	-.019	-.019	0	%100
23	M22	X	.032	.032	0	%100
24	M22	Z	-.019	-.019	0	%100
25	M23	X	.032	.032	0	%100
26	M23	Z	-.019	-.019	0	%100
27	M24	X	.032	.032	0	%100
28	M24	Z	-.019	-.019	0	%100
29	M25	X	.1	.1	0	%100
30	M25	Z	-.058	-.058	0	%100
31	M26	X	.1	.1	0	%100
32	M26	Z	-.058	-.058	0	%100
33	M27	X	.147	.147	0	%100
34	M27	Z	-.085	-.085	0	%100
35	M28	X	.147	.147	0	%100
36	M28	Z	-.085	-.085	0	%100
37	M31	X	.467	.467	0	%100
38	M31	Z	-.269	-.269	0	%100
39	M32	X	.467	.467	0	%100
40	M32	Z	-.269	-.269	0	%100
41	M44	X	.129	.129	0	%100
42	M44	Z	-.074	-.074	0	%100
43	M45	X	.129	.129	0	%100
44	M45	Z	-.074	-.074	0	%100
45	M46	X	.129	.129	0	%100
46	M46	Z	-.074	-.074	0	%100
47	M47	X	.129	.129	0	%100
48	M47	Z	-.074	-.074	0	%100
49	MP1A	X	.49	.49	0	%100
50	MP1A	Z	-.283	-.283	0	%100
51	MP2A	X	.49	.49	0	%100
52	MP2A	Z	-.283	-.283	0	%100
53	MP3A	X	.49	.49	0	%100
54	MP3A	Z	-.283	-.283	0	%100
55	MP4A	X	.49	.49	0	%100
56	MP4A	Z	-.283	-.283	0	%100
57	M49	X	.446	.446	0	%100
58	M49	Z	-.258	-.258	0	%100
59	M50	X	.446	.446	0	%100
60	M50	Z	-.258	-.258	0	%100

**Member Distributed Loads (BLC 68 : Structure Wm (90 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100



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**Member Distributed Loads (BLC 68 : Structure Wm (90 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft,F...]	Start Location[ft.%]	End Location[ft.%]
4	M2	Z	0	0	0	%100
5	M13	X	.149	.149	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	.149	.149	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	.149	.149	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	.149	.149	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	.166	.166	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	.166	.166	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	.166	.166	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	.166	.166	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	.139	.139	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	.139	.139	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	.139	.139	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	.139	.139	0	%100
36	M28	Z	0	0	0	%100
37	M31	X	.306	.306	0	%100
38	M31	Z	0	0	0	%100
39	M32	X	.306	.306	0	%100
40	M32	Z	0	0	0	%100
41	M44	X	.149	.149	0	%100
42	M44	Z	0	0	0	%100
43	M45	X	.149	.149	0	%100
44	M45	Z	0	0	0	%100
45	M46	X	.149	.149	0	%100
46	M46	Z	0	0	0	%100
47	M47	X	.149	.149	0	%100
48	M47	Z	0	0	0	%100
49	MP1A	X	.566	.566	0	%100
50	MP1A	Z	0	0	0	%100
51	MP2A	X	.566	.566	0	%100
52	MP2A	Z	0	0	0	%100
53	MP3A	X	.566	.566	0	%100
54	MP3A	Z	0	0	0	%100
55	MP4A	X	.566	.566	0	%100
56	MP4A	Z	0	0	0	%100
57	M49	X	.516	.516	0	%100
58	M49	Z	0	0	0	%100
59	M50	X	.516	.516	0	%100
60	M50	Z	0	0	0	%100



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**Member Distributed Loads (BLC 69 : Structure Wm (120 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.148	.148	0	%100
2	M1	Z	.086	.086	0	%100
3	M2	X	.148	.148	0	%100
4	M2	Z	.086	.086	0	%100
5	M13	X	.097	.097	0	%100
6	M13	Z	.056	.056	0	%100
7	M14	X	.097	.097	0	%100
8	M14	Z	.056	.056	0	%100
9	M15	X	.097	.097	0	%100
10	M15	Z	.056	.056	0	%100
11	M16	X	.097	.097	0	%100
12	M16	Z	.056	.056	0	%100
13	M17	X	.325	.325	0	%100
14	M17	Z	.188	.188	0	%100
15	M18	X	.325	.325	0	%100
16	M18	Z	.188	.188	0	%100
17	M19	X	.007	.007	0	%100
18	M19	Z	.004	.004	0	%100
19	M20	X	.007	.007	0	%100
20	M20	Z	.004	.004	0	%100
21	M21	X	.032	.032	0	%100
22	M21	Z	.019	.019	0	%100
23	M22	X	.032	.032	0	%100
24	M22	Z	.019	.019	0	%100
25	M23	X	.032	.032	0	%100
26	M23	Z	.019	.019	0	%100
27	M24	X	.032	.032	0	%100
28	M24	Z	.019	.019	0	%100
29	M25	X	.147	.147	0	%100
30	M25	Z	.085	.085	0	%100
31	M26	X	.147	.147	0	%100
32	M26	Z	.085	.085	0	%100
33	M27	X	.1	.1	0	%100
34	M27	Z	.058	.058	0	%100
35	M28	X	.1	.1	0	%100
36	M28	Z	.058	.058	0	%100
37	M31	X	.044	.044	0	%100
38	M31	Z	.025	.025	0	%100
39	M32	X	.044	.044	0	%100
40	M32	Z	.025	.025	0	%100
41	M44	X	.129	.129	0	%100
42	M44	Z	.074	.074	0	%100
43	M45	X	.129	.129	0	%100
44	M45	Z	.074	.074	0	%100
45	M46	X	.129	.129	0	%100
46	M46	Z	.074	.074	0	%100
47	M47	X	.129	.129	0	%100
48	M47	Z	.074	.074	0	%100
49	MP1A	X	.49	.49	0	%100
50	MP1A	Z	.283	.283	0	%100
51	MP2A	X	.49	.49	0	%100
52	MP2A	Z	.283	.283	0	%100
53	MP3A	X	.49	.49	0	%100
54	MP3A	Z	.283	.283	0	%100
55	MP4A	X	.49	.49	0	%100
56	MP4A	Z	.283	.283	0	%100
57	M49	X	.446	.446	0	%100



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**Member Distributed Loads (BLC 69 : Structure Wm (120 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
58	M49	Z	.258	.258	0	%100
59	M50	X	.446	.446	0	%100
60	M50	Z	.258	.258	0	%100

**Member Distributed Loads (BLC 70 : Structure Wm (150 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	.257	.257	0	%100
2	M1	Z	.445	.445	0	%100
3	M2	X	.257	.257	0	%100
4	M2	Z	.445	.445	0	%100
5	M13	X	.019	.019	0	%100
6	M13	Z	.032	.032	0	%100
7	M14	X	.019	.019	0	%100
8	M14	Z	.032	.032	0	%100
9	M15	X	.019	.019	0	%100
10	M15	Z	.032	.032	0	%100
11	M16	X	.019	.019	0	%100
12	M16	Z	.032	.032	0	%100
13	M17	X	.214	.214	0	%100
14	M17	Z	.37	.37	0	%100
15	M18	X	.214	.214	0	%100
16	M18	Z	.37	.37	0	%100
17	M19	X	.03	.03	0	%100
18	M19	Z	.053	.053	0	%100
19	M20	X	.03	.03	0	%100
20	M20	Z	.053	.053	0	%100
21	M21	X	.056	.056	0	%100
22	M21	Z	.097	.097	0	%100
23	M22	X	.056	.056	0	%100
24	M22	Z	.097	.097	0	%100
25	M23	X	.056	.056	0	%100
26	M23	Z	.097	.097	0	%100
27	M24	X	.056	.056	0	%100
28	M24	Z	.097	.097	0	%100
29	M25	X	.089	.089	0	%100
30	M25	Z	.154	.154	0	%100
31	M26	X	.089	.089	0	%100
32	M26	Z	.154	.154	0	%100
33	M27	X	.062	.062	0	%100
34	M27	Z	.107	.107	0	%100
35	M28	X	.062	.062	0	%100
36	M28	Z	.107	.107	0	%100
37	M31	X	.014	.014	0	%100
38	M31	Z	.023	.023	0	%100
39	M32	X	.014	.014	0	%100
40	M32	Z	.023	.023	0	%100
41	M44	X	.074	.074	0	%100
42	M44	Z	.129	.129	0	%100
43	M45	X	.074	.074	0	%100
44	M45	Z	.129	.129	0	%100
45	M46	X	.074	.074	0	%100
46	M46	Z	.129	.129	0	%100
47	M47	X	.074	.074	0	%100
48	M47	Z	.129	.129	0	%100
49	MP1A	X	.283	.283	0	%100
50	MP1A	Z	.49	.49	0	%100

**Member Distributed Loads (BLC 70 : Structure Wm (150 Deg)) (Continued)**

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
51	MP2A	X	.283	.283	0 %100
52	MP2A	Z	.49	.49	0 %100
53	MP3A	X	.283	.283	0 %100
54	MP3A	Z	.49	.49	0 %100
55	MP4A	X	.283	.283	0 %100
56	MP4A	Z	.49	.49	0 %100
57	M49	X	.258	.258	0 %100
58	M49	Z	.446	.446	0 %100
59	M50	X	.258	.258	0 %100
60	M50	Z	.446	.446	0 %100

**Member Distributed Loads (BLC 71 : Structure Wm (180 Deg))**

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	0	0	0 %100
2	M1	Z	.685	.685	0 %100
3	M2	X	0	0	0 %100
4	M2	Z	.685	.685	0 %100
5	M13	X	0	0	0 %100
6	M13	Z	0	0	0 %100
7	M14	X	0	0	0 %100
8	M14	Z	0	0	0 %100
9	M15	X	0	0	0 %100
10	M15	Z	0	0	0 %100
11	M16	X	0	0	0 %100
12	M16	Z	0	0	0 %100
13	M17	X	0	0	0 %100
14	M17	Z	.27	.27	0 %100
15	M18	X	0	0	0 %100
16	M18	Z	.27	.27	0 %100
17	M19	X	0	0	0 %100
18	M19	Z	.27	.27	0 %100
19	M20	X	0	0	0 %100
20	M20	Z	.27	.27	0 %100
21	M21	X	0	0	0 %100
22	M21	Z	.149	.149	0 %100
23	M22	X	0	0	0 %100
24	M22	Z	.149	.149	0 %100
25	M23	X	0	0	0 %100
26	M23	Z	.149	.149	0 %100
27	M24	X	0	0	0 %100
28	M24	Z	.149	.149	0 %100
29	M25	X	0	0	0 %100
30	M25	Z	.154	.154	0 %100
31	M26	X	0	0	0 %100
32	M26	Z	.154	.154	0 %100
33	M27	X	0	0	0 %100
34	M27	Z	.154	.154	0 %100
35	M28	X	0	0	0 %100
36	M28	Z	.154	.154	0 %100
37	M31	X	0	0	0 %100
38	M31	Z	.259	.259	0 %100
39	M32	X	0	0	0 %100
40	M32	Z	.259	.259	0 %100
41	M44	X	0	0	0 %100
42	M44	Z	.149	.149	0 %100
43	M45	X	0	0	0 %100



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**Member Distributed Loads (BLC 71 : Structure Wm (180 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
44	M45	Z	.149	.149	0	%100
45	M46	X	0	0	0	%100
46	M46	Z	.149	.149	0	%100
47	M47	X	0	0	0	%100
48	M47	Z	.149	.149	0	%100
49	MP1A	X	0	0	0	%100
50	MP1A	Z	.566	.566	0	%100
51	MP2A	X	0	0	0	%100
52	MP2A	Z	.566	.566	0	%100
53	MP3A	X	0	0	0	%100
54	MP3A	Z	.566	.566	0	%100
55	MP4A	X	0	0	0	%100
56	MP4A	Z	.566	.566	0	%100
57	M49	X	0	0	0	%100
58	M49	Z	.516	.516	0	%100
59	M50	X	0	0	0	%100
60	M50	Z	.516	.516	0	%100

**Member Distributed Loads (BLC 72 : Structure Wm (210 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	-.257	-.257	0	%100
2	M1	Z	.445	.445	0	%100
3	M2	X	-.257	-.257	0	%100
4	M2	Z	.445	.445	0	%100
5	M13	X	-.019	-.019	0	%100
6	M13	Z	.032	.032	0	%100
7	M14	X	-.019	-.019	0	%100
8	M14	Z	.032	.032	0	%100
9	M15	X	-.019	-.019	0	%100
10	M15	Z	.032	.032	0	%100
11	M16	X	-.019	-.019	0	%100
12	M16	Z	.032	.032	0	%100
13	M17	X	-.03	-.03	0	%100
14	M17	Z	.053	.053	0	%100
15	M18	X	-.03	-.03	0	%100
16	M18	Z	.053	.053	0	%100
17	M19	X	-.214	-.214	0	%100
18	M19	Z	.37	.37	0	%100
19	M20	X	-.214	-.214	0	%100
20	M20	Z	.37	.37	0	%100
21	M21	X	-.056	-.056	0	%100
22	M21	Z	.097	.097	0	%100
23	M22	X	-.056	-.056	0	%100
24	M22	Z	.097	.097	0	%100
25	M23	X	-.056	-.056	0	%100
26	M23	Z	.097	.097	0	%100
27	M24	X	-.056	-.056	0	%100
28	M24	Z	.097	.097	0	%100
29	M25	X	-.062	-.062	0	%100
30	M25	Z	.107	.107	0	%100
31	M26	X	-.062	-.062	0	%100
32	M26	Z	.107	.107	0	%100
33	M27	X	-.089	-.089	0	%100
34	M27	Z	.154	.154	0	%100
35	M28	X	-.089	-.089	0	%100
36	M28	Z	.154	.154	0	%100



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**Member Distributed Loads (BLC 72 : Structure Wm (210 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
37	M31	X	-.258	-.258	0	%100
38	M31	Z	.446	.446	0	%100
39	M32	X	-.258	-.258	0	%100
40	M32	Z	.446	.446	0	%100
41	M44	X	-.074	-.074	0	%100
42	M44	Z	.129	.129	0	%100
43	M45	X	-.074	-.074	0	%100
44	M45	Z	.129	.129	0	%100
45	M46	X	-.074	-.074	0	%100
46	M46	Z	.129	.129	0	%100
47	M47	X	-.074	-.074	0	%100
48	M47	Z	.129	.129	0	%100
49	MP1A	X	-.283	-.283	0	%100
50	MP1A	Z	.49	.49	0	%100
51	MP2A	X	-.283	-.283	0	%100
52	MP2A	Z	.49	.49	0	%100
53	MP3A	X	-.283	-.283	0	%100
54	MP3A	Z	.49	.49	0	%100
55	MP4A	X	-.283	-.283	0	%100
56	MP4A	Z	.49	.49	0	%100
57	M49	X	-.258	-.258	0	%100
58	M49	Z	.446	.446	0	%100
59	M50	X	-.258	-.258	0	%100
60	M50	Z	.446	.446	0	%100

**Member Distributed Loads (BLC 73 : Structure Wm (240 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-.148	-.148	0	%100
2	M1	Z	.086	.086	0	%100
3	M2	X	-.148	-.148	0	%100
4	M2	Z	.086	.086	0	%100
5	M13	X	-.097	-.097	0	%100
6	M13	Z	.056	.056	0	%100
7	M14	X	-.097	-.097	0	%100
8	M14	Z	.056	.056	0	%100
9	M15	X	-.097	-.097	0	%100
10	M15	Z	.056	.056	0	%100
11	M16	X	-.097	-.097	0	%100
12	M16	Z	.056	.056	0	%100
13	M17	X	-.007	-.007	0	%100
14	M17	Z	.004	.004	0	%100
15	M18	X	-.007	-.007	0	%100
16	M18	Z	.004	.004	0	%100
17	M19	X	-.325	-.325	0	%100
18	M19	Z	.188	.188	0	%100
19	M20	X	-.325	-.325	0	%100
20	M20	Z	.188	.188	0	%100
21	M21	X	-.032	-.032	0	%100
22	M21	Z	.019	.019	0	%100
23	M22	X	-.032	-.032	0	%100
24	M22	Z	.019	.019	0	%100
25	M23	X	-.032	-.032	0	%100
26	M23	Z	.019	.019	0	%100
27	M24	X	-.032	-.032	0	%100
28	M24	Z	.019	.019	0	%100
29	M25	X	-.1	-.1	0	%100



**Member Distributed Loads (BLC 73 : Structure Wm (240 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
30	M25	Z	.058	.058	0	%100
31	M26	X	-.1	-.1	0	%100
32	M26	Z	.058	.058	0	%100
33	M27	X	-.147	-.147	0	%100
34	M27	Z	.085	.085	0	%100
35	M28	X	-.147	-.147	0	%100
36	M28	Z	.085	.085	0	%100
37	M31	X	-.467	-.467	0	%100
38	M31	Z	.269	.269	0	%100
39	M32	X	-.467	-.467	0	%100
40	M32	Z	.269	.269	0	%100
41	M44	X	-.129	-.129	0	%100
42	M44	Z	.074	.074	0	%100
43	M45	X	-.129	-.129	0	%100
44	M45	Z	.074	.074	0	%100
45	M46	X	-.129	-.129	0	%100
46	M46	Z	.074	.074	0	%100
47	M47	X	-.129	-.129	0	%100
48	M47	Z	.074	.074	0	%100
49	MP1A	X	-.49	-.49	0	%100
50	MP1A	Z	.283	.283	0	%100
51	MP2A	X	-.49	-.49	0	%100
52	MP2A	Z	.283	.283	0	%100
53	MP3A	X	-.49	-.49	0	%100
54	MP3A	Z	.283	.283	0	%100
55	MP4A	X	-.49	-.49	0	%100
56	MP4A	Z	.283	.283	0	%100
57	M49	X	-.446	-.446	0	%100
58	M49	Z	.258	.258	0	%100
59	M50	X	-.446	-.446	0	%100
60	M50	Z	.258	.258	0	%100

**Member Distributed Loads (BLC 74 : Structure Wm (270 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	-.149	-.149	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	-.149	-.149	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	-.149	-.149	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	-.149	-.149	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	-.166	-.166	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	-.166	-.166	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	-.166	-.166	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	-.166	-.166	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100

**Member Distributed Loads (BLC 74 : Structure Wm (270 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	-.139	-.139	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	-.139	-.139	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	-.139	-.139	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	-.139	-.139	0	%100
36	M28	Z	0	0	0	%100
37	M31	X	-.306	-.306	0	%100
38	M31	Z	0	0	0	%100
39	M32	X	-.306	-.306	0	%100
40	M32	Z	0	0	0	%100
41	M44	X	-.149	-.149	0	%100
42	M44	Z	0	0	0	%100
43	M45	X	-.149	-.149	0	%100
44	M45	Z	0	0	0	%100
45	M46	X	-.149	-.149	0	%100
46	M46	Z	0	0	0	%100
47	M47	X	-.149	-.149	0	%100
48	M47	Z	0	0	0	%100
49	MP1A	X	-.566	-.566	0	%100
50	MP1A	Z	0	0	0	%100
51	MP2A	X	-.566	-.566	0	%100
52	MP2A	Z	0	0	0	%100
53	MP3A	X	-.566	-.566	0	%100
54	MP3A	Z	0	0	0	%100
55	MP4A	X	-.566	-.566	0	%100
56	MP4A	Z	0	0	0	%100
57	M49	X	-.516	-.516	0	%100
58	M49	Z	0	0	0	%100
59	M50	X	-.516	-.516	0	%100
60	M50	Z	0	0	0	%100

**Member Distributed Loads (BLC 75 : Structure Wm (300 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-.148	-.148	0	%100
2	M1	Z	-.086	-.086	0	%100
3	M2	X	-.148	-.148	0	%100
4	M2	Z	-.086	-.086	0	%100
5	M13	X	-.097	-.097	0	%100
6	M13	Z	-.056	-.056	0	%100
7	M14	X	-.097	-.097	0	%100
8	M14	Z	-.056	-.056	0	%100
9	M15	X	-.097	-.097	0	%100
10	M15	Z	-.056	-.056	0	%100
11	M16	X	-.097	-.097	0	%100
12	M16	Z	-.056	-.056	0	%100
13	M17	X	-.325	-.325	0	%100
14	M17	Z	-.188	-.188	0	%100
15	M18	X	-.325	-.325	0	%100

**Member Distributed Loads (BLC 75 : Structure Wm (300 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
16	M18	Z	- .188	- .188	0	%100
17	M19	X	- .007	- .007	0	%100
18	M19	Z	- .004	- .004	0	%100
19	M20	X	- .007	- .007	0	%100
20	M20	Z	- .004	- .004	0	%100
21	M21	X	- .032	- .032	0	%100
22	M21	Z	- .019	- .019	0	%100
23	M22	X	- .032	- .032	0	%100
24	M22	Z	- .019	- .019	0	%100
25	M23	X	- .032	- .032	0	%100
26	M23	Z	- .019	- .019	0	%100
27	M24	X	- .032	- .032	0	%100
28	M24	Z	- .019	- .019	0	%100
29	M25	X	- .147	- .147	0	%100
30	M25	Z	- .085	- .085	0	%100
31	M26	X	- .147	- .147	0	%100
32	M26	Z	- .085	- .085	0	%100
33	M27	X	- .1	- .1	0	%100
34	M27	Z	- .058	- .058	0	%100
35	M28	X	- .1	- .1	0	%100
36	M28	Z	- .058	- .058	0	%100
37	M31	X	- .044	- .044	0	%100
38	M31	Z	- .025	- .025	0	%100
39	M32	X	- .044	- .044	0	%100
40	M32	Z	- .025	- .025	0	%100
41	M44	X	- .129	- .129	0	%100
42	M44	Z	- .074	- .074	0	%100
43	M45	X	- .129	- .129	0	%100
44	M45	Z	- .074	- .074	0	%100
45	M46	X	- .129	- .129	0	%100
46	M46	Z	- .074	- .074	0	%100
47	M47	X	- .129	- .129	0	%100
48	M47	Z	- .074	- .074	0	%100
49	MP1A	X	- .49	- .49	0	%100
50	MP1A	Z	- .283	- .283	0	%100
51	MP2A	X	- .49	- .49	0	%100
52	MP2A	Z	- .283	- .283	0	%100
53	MP3A	X	- .49	- .49	0	%100
54	MP3A	Z	- .283	- .283	0	%100
55	MP4A	X	- .49	- .49	0	%100
56	MP4A	Z	- .283	- .283	0	%100
57	M49	X	- .446	- .446	0	%100
58	M49	Z	- .258	- .258	0	%100
59	M50	X	- .446	- .446	0	%100
60	M50	Z	- .258	- .258	0	%100

**Member Distributed Loads (BLC 76 : Structure Wm (330 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	- .257	- .257	0	%100
2	M1	Z	- .445	- .445	0	%100
3	M2	X	- .257	- .257	0	%100
4	M2	Z	- .445	- .445	0	%100
5	M13	X	- .019	- .019	0	%100
6	M13	Z	- .032	- .032	0	%100
7	M14	X	- .019	- .019	0	%100
8	M14	Z	- .032	- .032	0	%100



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**Member Distributed Loads (BLC 76 : Structure Wm (330 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
9	M15	X	-0.19	-0.19	0	%100
10	M15	Z	-0.32	-0.32	0	%100
11	M16	X	-0.19	-0.19	0	%100
12	M16	Z	-0.32	-0.32	0	%100
13	M17	X	-0.214	-0.214	0	%100
14	M17	Z	-0.37	-0.37	0	%100
15	M18	X	-0.214	-0.214	0	%100
16	M18	Z	-0.37	-0.37	0	%100
17	M19	X	-0.03	-0.03	0	%100
18	M19	Z	-0.053	-0.053	0	%100
19	M20	X	-0.03	-0.03	0	%100
20	M20	Z	-0.053	-0.053	0	%100
21	M21	X	-0.056	-0.056	0	%100
22	M21	Z	-0.097	-0.097	0	%100
23	M22	X	-0.056	-0.056	0	%100
24	M22	Z	-0.097	-0.097	0	%100
25	M23	X	-0.056	-0.056	0	%100
26	M23	Z	-0.097	-0.097	0	%100
27	M24	X	-0.056	-0.056	0	%100
28	M24	Z	-0.097	-0.097	0	%100
29	M25	X	-0.089	-0.089	0	%100
30	M25	Z	-0.154	-0.154	0	%100
31	M26	X	-0.089	-0.089	0	%100
32	M26	Z	-0.154	-0.154	0	%100
33	M27	X	-0.062	-0.062	0	%100
34	M27	Z	-0.107	-0.107	0	%100
35	M28	X	-0.062	-0.062	0	%100
36	M28	Z	-0.107	-0.107	0	%100
37	M31	X	-0.014	-0.014	0	%100
38	M31	Z	-0.023	-0.023	0	%100
39	M32	X	-0.014	-0.014	0	%100
40	M32	Z	-0.023	-0.023	0	%100
41	M44	X	-0.074	-0.074	0	%100
42	M44	Z	-0.129	-0.129	0	%100
43	M45	X	-0.074	-0.074	0	%100
44	M45	Z	-0.129	-0.129	0	%100
45	M46	X	-0.074	-0.074	0	%100
46	M46	Z	-0.129	-0.129	0	%100
47	M47	X	-0.074	-0.074	0	%100
48	M47	Z	-0.129	-0.129	0	%100
49	MP1A	X	-0.283	-0.283	0	%100
50	MP1A	Z	-0.49	-0.49	0	%100
51	MP2A	X	-0.283	-0.283	0	%100
52	MP2A	Z	-0.49	-0.49	0	%100
53	MP3A	X	-0.283	-0.283	0	%100
54	MP3A	Z	-0.49	-0.49	0	%100
55	MP4A	X	-0.283	-0.283	0	%100
56	MP4A	Z	-0.49	-0.49	0	%100
57	M49	X	-0.258	-0.258	0	%100
58	M49	Z	-0.446	-0.446	0	%100
59	M50	X	-0.258	-0.258	0	%100
60	M50	Z	-0.446	-0.446	0	%100



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**Member Area Loads**

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

**Envelope Joint Reactions**

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N35	max	351.657	33	1202.46	20	1594.394	14	-.175	11	0	51	.084	28
2		min	-612.351	49	504.662	2	-154.477	8	-.52	17	0	1	-.105	49
3	N36	max	876.376	9	1173.003	14	1359.717	2	-.125	9	0	51	.082	27
4		min	-763.494	3	493.263	8	-2535.055	8	-.493	14	0	1	-.103	45
5	N79A	max	389.022	10	29.802	16	404.834	10	0	51	0	51	0	51
6		min	-357.389	4	13.881	9	-370.398	4	0	1	0	1	0	1
7	N80A	max	645.833	11	29.899	17	700.646	11	0	51	0	51	0	51
8		min	-680.574	5	13.841	9	-738.3	5	0	1	0	1	0	1
9	Totals:	max	1916.644	10	2428.037	21	2656.623	1						
10		min	-1916.644	4	1069.407	3	-2656.623	7						

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

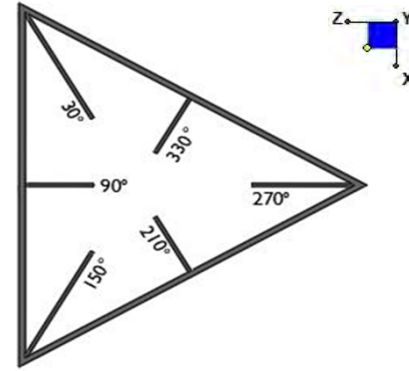
Member	Shape	Code Check	Loc[ft]	LC	Shear	Loc[ft]	Dir	LC	phi*Pnc...	phi*Pnt...	phi*Mn...	phi*Mn...	Cb	Eqn
1	M1	PIPE 2.5	.209	8.313	7	.087	3.958	43	14178.1...	50715	3.596	3.596	1..	H1-1b
2	M2	PIPE 2.5	.308	3.826	7	.121	3.958	7	14178.1...	50715	3.596	3.596	2..	H1-1b
3	M13	PL5/8X3.5	.241	.422	8	.343	.422	y 9	66184.77	68906.25	.897	5.024	1..	H1-1b
4	M14	PL5/8X3.5	.188	0	41	.186	.422	y 3	66184.77	68906.25	.897	5.024	1..	H1-1b
5	M15	PL5/8X3.5	.170	0	28	.080	0	y 2	66184.77	68906.25	.897	5.024	1..	H1-1b
6	M16	PL5/8X3.5	.172	.422	7	.188	0	y 7	66184.77	68906.25	.897	5.024	1..	H1-1b
7	M17	PIPE 2.0	.289	0	8	.081	1.25	3	31128.25	32130	1.872	1.872	2..	H1-1b
8	M18	PIPE 2.0	.135	0	2	.078	0	17	31128.25	32130	1.872	1.872	1..	H1-1b
9	M19	PIPE 2.0	.078	0	2	.069	0	29	31128.25	32130	1.872	1.872	1..	H1-1b
10	M20	PIPE 2.0	.194	0	7	.059	0	13	31128.25	32130	1.872	1.872	2..	H1-1b
11	M21	PL5/8X3.5	.356	.531	20	.157	.531	y 9	67591.76	68906.25	.897	5.024	1..	H1-1b
12	M22	PL5/8X3.5	.289	.531	19	.079	.531	y 7	67591.76	68906.25	.897	5.024	1..	H1-1b
13	M23	PL5/8X3.5	.329	.531	13	.084	0	y 5	67591.76	68906.25	.897	5.024	1..	H1-1b
14	M24	PL5/8X3.5	.283	.531	14	.036	0	y 28	67591.76	68906.25	.897	5.024	1..	H1-1b
15	M25	SR 0.75	.000	0	51	.008	0	19	2863.936	13916.2...	.174	.174	1..	H1-1a
16	M26	SR 0.75	.066	0	20	.010	4.167	14	2863.936	13916.2...	.174	.174	1..	H1-1b*
17	M27	SR 0.75	.000	0	51	.004	0	18	2863.936	13916.2...	.174	.174	1..	H1-1a
18	M28	SR 0.75	.058	4.167	30	.007	4.167	14	2863.936	13916.2...	.174	.174	1..	H1-1b*
19	M31	PIPE 2.0	.051	6.723	11	.003	6.723	9	18686.4...	32130	1.872	1.872	1..	H1-1b*
20	M32	PIPE 2.0	.042	3.362	9	.003	6.723	9	18686.4...	32130	1.872	1.872	1..	H1-1b
21	M44	SR 0.625	.058	1.667	12	.007	0	8	2017.074	9670.5	.094	.094	1..	H1-1b
22	M45	SR 0.625	.057	1.667	8	.003	0	23	2017.074	9670.5	.094	.094	1..	H1-1b
23	M46	SR 0.625	.050	1.667	7	.006	0	7	2017.074	9670.5	.094	.094	1	H1-1b
24	M47	SR 0.625	.042	1.667	11	.004	0	5	2017.074	9670.5	.094	.094	1..	H1-1b
25	MP1A	PIPE 2.0	.213	2.417	7	.086	5.75	8	14916.0...	32130	1.872	1.872	4..	H1-1b
26	MP2A	PIPE 2.0	.204	2.417	7	.049	2.417	7	14916.0...	32130	1.872	1.872	3..	H1-1b
27	MP3A	PIPE 2.0	.308	2.417	7	.096	2.417	9	14916.0...	32130	1.872	1.872	3..	H1-1b
28	MP4A	PIPE 2.0	.237	5.75	49	.092	5.75	6	14916.0...	32130	1.872	1.872	4..	H1-1b
29	M49	PIPE 2.0	.012	2	9	.011	3.667	8	26521.4...	32130	1.872	1.872	1..	H1-1b
30	M50	PIPE 2.0	.036	1.042	4	.030	.333	8	26521.4...	32130	1.872	1.872	1..	H1-1b



## I. Mount-to-Tower Connection Check

### RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
N36	90
N35	90



TYPICAL PLATFORM

### Tower Connection Bolt Checks

Any moment resistance?:

Bolt Quantity per Reaction:

$d_x$  (in) (Delta X of typ. bolt config. sketch):

$d_y$  (in) (Delta Y of typ. bolt config. sketch):

Bolt Type:

Bolt Diameter (in):

Required Tensile Strength (kips):

Required Shear Strength (kips):

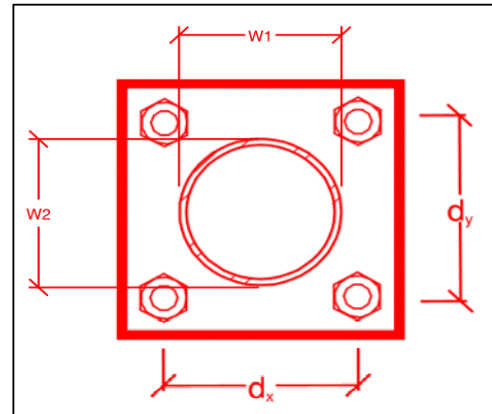
Tensile Strength / bolt (kips):

Shear Strength / bolt (kips):

Tensile Capacity Overall:

Shear Capacity Overall:

yes
4
9.5
3.5
A307
0.625
4.8
2.6
10.0
6.0
11.9%*
10.9%



\*Note: Tension reduction not required if tension or shear capacity < 30%

## Mount Desktop – Post Modification Inspection (PMI) Report Requirements

### Documents & Photos Required from Contractor – **Passing Mount Analysis**

---

**Purpose** – to provide Maser Consulting Connecticut the proper documentation in order to complete the required Mount Desktop review of the Post Modification Inspection Report.

- Contractor is responsible for making certain the photos provided as noted below provide confirmation that the installation was completed in accordance with this Passing Mount Analysis.
- Contractor shall relay any data that can impact the performance of the mount, this includes safety issues.

#### **Base Requirements:**

- Any special photos outside of the standard requirements will be indicated on the passing MA
- Verification that loading is as communicated in the Passing Mount Analysis. NOTE If loading is different than what is conveyed contact Maser Consulting Connecticut immediately.
- Each photo should be time and date stamped
- Photos should be high resolution and submitted in a Zip File and should be organized in the file structure as depicted in Schedule A attached.
- Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope.
- The photos in the file structure should be uploaded to <https://pmi.vzsmart.com> as depicted on the drawings

#### **Photo Requirements:**

- Base and “During Installation Photos”
  - Base pictures include
    - Photo of Gate Signs showing the tower owner, site name, and number
    - Photo of carrier shelter showing the carrier site name and number if available
    - Photos of the galvanizing compound and/or paint used (if applicable), clearly showing the label and name
  - “During Installation Photos if provided - must be placed only in this folder
- Photos taken at ground level
  - Overall tower structure before and after installation of the equipment modifications
  - Photos of the appropriate mount before and after installation of the modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed
- Photos taken at Mount Elevation
  - Photos showing each individual sector before and also after installation of equipment.



- These photos should also certify that the placement and geometry of the equipment on the mount is as depicted on the sketch and table in the mount analysis
  - Photos showing the safety climb wire rope above and below the mount prior to modification.
  - Photos showing the climbing facility and safety climb if present.

**Antenna & equipment placement and Geometry Confirmation:**

- The contractor must certify that the antenna & equipment placement and geometry is in accordance with the antenna placement diagrams as included in this mount analysis.
- The contractor certifies that the photos support and the equipment on the mount is as depicted on the antenna placement diagrams as included in this mount analysis.
- The contractor notes that the equipment on the mount is not in accordance with the antenna placement diagrams and has accordingly marked up the diagrams or provided a diagram outlining the differences.


















Certifying Individual:      Company \_\_\_\_\_  
    Name \_\_\_\_\_  
    Signature \_\_\_\_\_

**Special Instructions / Validation as required from the MA or any other information the contractor deems necessary to share that was identified:**

**Issue:**  
 \_\_\_\_\_

**Response:**  
 \_\_\_\_\_

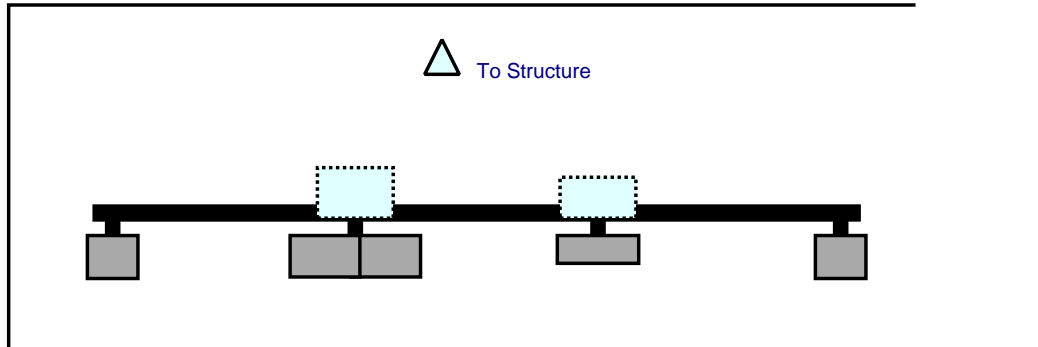
**Schedule A – Photo & Document File Structure**

-  VzW Site Number / Name
  -  Base & “During Installation” Photos
  -  Pre-Installation Photos
    -  Alpha
    -  Beta
    -  Gamma
    -  Ground Level
    -  Tape Drop
  -  Post-Installation Photos
    -  Alpha
    -  Beta
    -  Gamma
    -  Ground Level
    -  Tape Drop
    -  Photos of climbing facility and safety climb – If Present
  -  Certifications – Submission of this document including certifications
  -  Specific Required Additional Photos

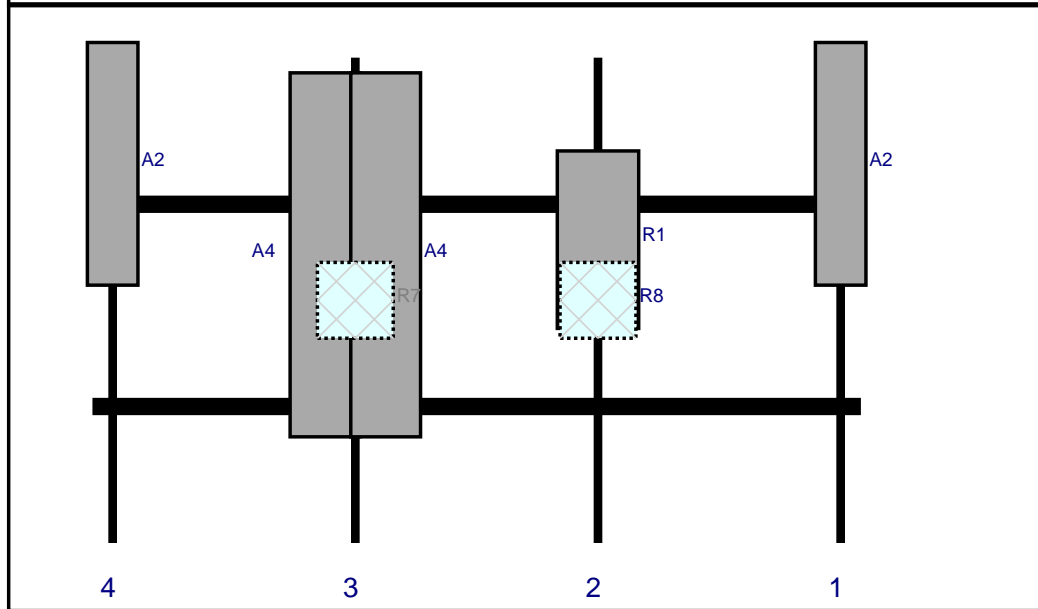
Sector: A  
 Structure Type: Self Support  
 Mount Elev: 89.00



Plan View



Front View  
 Looking at Structure

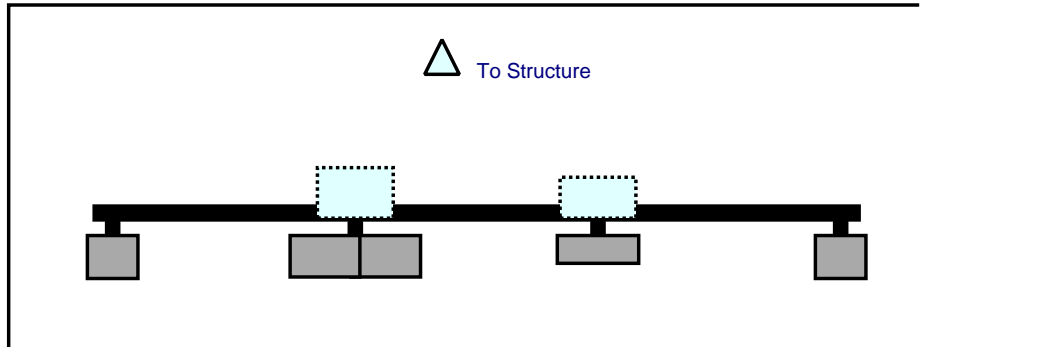


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A2	DB844G65ZAXY	48	10	148	1	a	Front	21	0	Retained	02/20/2021
R1	MT6407-77A	35.1	16.1	100	2	a	Front	36	0	Added	
R8	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	100	2	a	Behind	48	0	Retained	02/20/2021
A4	JAHH-65B-R3B	72	13.8	52	3	a	Front	39	-6	Retained	02/20/2021
A4	JAHH-65B-R3B	72	13.8	52	3	b	Front	39	6	Retained	02/20/2021
R7	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	52	3	a	Behind	48	0	Retained	02/20/2021
A2	DB844G65ZAXY	48	10	4	4	a	Front	21	0	Retained	02/20/2021

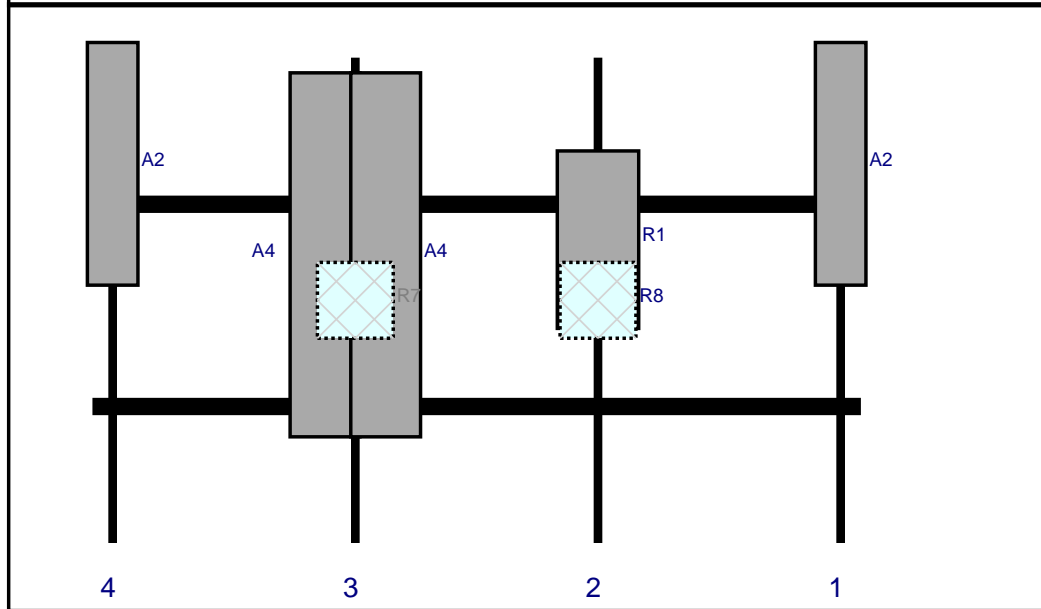
Sector: **B**  
 Structure Type: Self Support  
 Mount Elev: 89.00



Plan View



Front View  
Looking at Structure

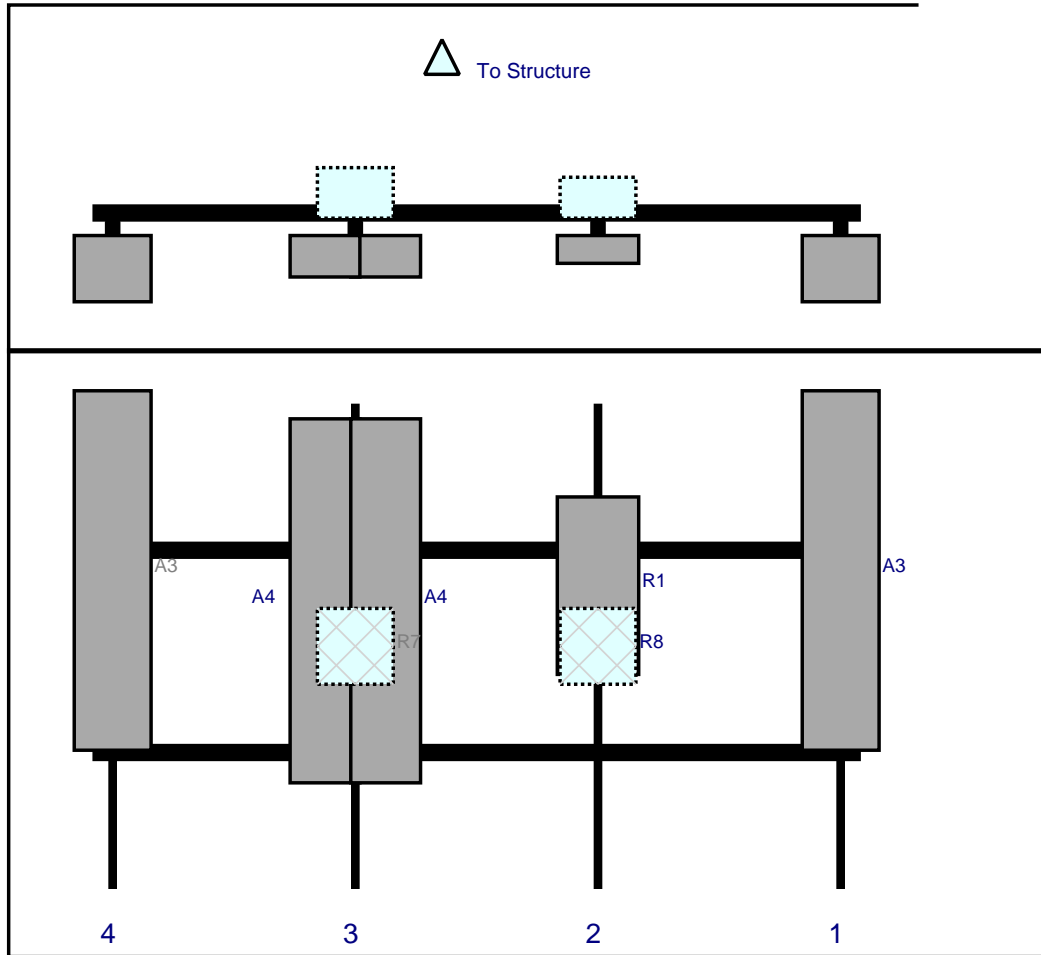


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A2	DB844G65ZAXY	48	10	148	1	a	Front	21	0	Retained	02/20/2021
R1	MT6407-77A	35.1	16.1	100	2	a	Front	36	0	Added	
R8	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	100	2	a	Behind	48	0	Retained	02/20/2021
A2	DB844G65ZAXY	48	10	4	4	a	Front	21	0	Retained	02/20/2021
A4	JAHH-65B-R3B	72	13.8	52	3	a	Front	39	-6	Retained	02/20/2021
A4	JAHH-65B-R3B	72	13.8	52	3	b	Front	39	6	Retained	02/20/2021
R7	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	52	3	a	Behind	48	0	Retained	02/20/2021

Sector: C  
 Structure Type: Self Support  
 Mount Elev: 89.00



Plan View



Front View  
 Looking at Structure

Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A3	LPA-80063-6CF-EDIN-X	71.1	15.2	148	1	a	Front	33	0	Retained	02/20/2021
R1	MT6407-77A	35.1	16.1	100	2	a	Front	36	0	Added	
R8	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	100	2	a	Behind	48	0	Retained	02/20/2021
A4	JAHH-65B-R3B	72	13.8	52	3	a	Front	39	-6	Retained	02/20/2021
A4	JAHH-65B-R3B	72	13.8	52	3	b	Front	39	6	Retained	02/20/2021
R7	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	52	3	a	Behind	48	0	Retained	02/20/2021
A3	LPA-80063-6CF-EDIN-X	71.1	15.2	4	4	a	Front	33	0	Retained	02/20/2021

**Subject**

TIA-222-H Usage

**Site Information**

Site ID: 468991

Site Name: N Branford CT

Carrier Name: Verizon Wireless

Address: 83 Reeds Gap Rd  
North Branford, Connecticut 06471  
New Haven County

Latitude: 41.403428°

Longitude: -72.744261°

**Structure Information**

Tower Type: Self-Support

Mount Type: Sector Frame

To Whom It May Concern,

We respectfully submit the above referenced Antenna Mount Structural Analysis report in conformance with ANSI/TIA-222-H, Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures.

The 2015 International Building Code states that, in Section 3108, telecommunication towers shall be designed and constructed in accordance with the provisions of TIA-222. The TIA-222-H is the latest revision of the TIA-222 Standard, effective as of January 01, 2018.

As with all ANSI standards and engineering best practice is to apply the most current revision of the standard. This ensures the engineer is applying all updates. As an example, the TIA-222-H standard includes updates to bring it in line with the latest AISC and ACI standards and it also incorporates the latest wind speed maps by ASCE 7 based on updated studies of the wind data.

The TIA-222-H standard clarifies these specific requirements for the antenna mount analysis such as modeling methods, seismic analysis, 30-degree increment wind directions and maintenance loading. Therefore, it is our opinion that TIA-222-H is the most appropriate standard for antenna mount structural analysis and is acceptable for use at this tower site to ensure the engineer is taking into account the most current engineering standard available.

Sincerely,

Taqi Khawaja, PE  
Technical Manager

# Exhibit F

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



Site Name: **NORTH BRANFORD CT**  
**Cumulative Power Density**

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density
	(MHz)		(watts)	(watts)	(feet)	(mW/cm <sup>2</sup> )
VZW 700	751	4	628	2511	90	0.0111
VZW CDMA	877.26	2	497	993	90	0.0044
VZW Cellular	874	4	725	2902	90	0.0129
VZW PCS	1975	4	1525	6100	90	0.0271
VZW AWS	2120	4	1493	5973	90	0.0265
VZW CBAND	3730.08	4	6531	26125	90	0.1160

**Total Percentage of Maximum Permissible Exposure**

\*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI

\*\*Calculation includes a -10 dB Off Beam Antenna Pattern Adjustment pursuant to Attachments B and C of the Siting Council

MHz = Megahertz

mW/cm<sup>2</sup> = milliwatts per square centimeter

ERP = Effective Radiated Power

Absolute worst case maximum values used.


Maximum Permissible Exposure*	Fraction of MPE
(mW/cm <sup>2</sup> )	(%)
0.5007	2.23%
0.5848	0.75%
0.5827	2.21%
1.0000	2.71%
1.0000	2.65%
1.0000	11.60%
	22.15%

/IEEE C95.1-1992

It's November 10, 2015 Memorandum for Exempt Modification filing:

# Exhibit G

## Recipient Mailings



**UNITED STATES  
POSTAL SERVICE®**

**Click-N-Ship®**

**P**

USPS.com  
**US POSTAGE**  
 Flat Rate Env  
 \$7.95  
 9405 5036 9930 0433 2914 56 0079 5000 0010 6051

U.S. POSTAGE PAID  
click-n-ship®

Mailed from 01566  
 07/03/2021

**PRIORITY MAIL 2-DAY™**

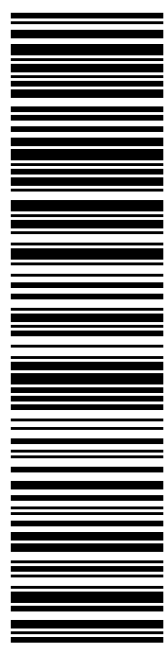
Expected Delivery Date: 07/07/21  
 Ref#: CR-806386  
**0006**

DEB CHASE  
 NORTHEAST SITE SOLUTIONS.COM  
 420 MAIN ST  
 BOX 1  
 STURBRIDGE MA 01566-1359

**C006**

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

**USPS TRACKING #**



**9405 5036 9930 0433 2914 56**

Electronic Rate Approved #038555749



Cut on dotted line.

## Instructions

1. Each Click-N-Ship® label is unique. Labels are to be used as printed and used only once. DO NOT PHOTO COPY OR ALTER LABEL.
2. Place your label so it does not wrap around the edge of the package.
3. Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, DO NOT TAPE OVER BARCODE. Be sure all edges are secure.
4. To mail your package with PC Postage®, you may schedule a Package Pickup online, hand to your letter carrier, take to a Post Office™, or drop in a USPS collection box.
5. Mail your package on the "Ship Date" you selected when creating this label.

## Click-N-Ship® Label Record

**USPS TRACKING # :**  
**9405 5036 9930 0433 2914 56**

Trans. #:	537461676	Priority Mail® Postage:	<b>\$7.95</b>
Print Date:	07/01/2021	Total:	<b>\$7.95</b>
Ship Date:	07/03/2021		
Expected Delivery Date:	07/07/2021		

**From:** DEB CHASE  
 NORTHEAST SITE SOLUTIONS.COM  
 420 MAIN ST  
 BOX 1  
 STURBRIDGE MA 01566-1359


Ref#: CR-806386

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

\* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.



Thank you for shipping with the United States Postal Service!  
 Check the status of your shipment on the USPS Tracking® page at usps.com



**UNITED STATES  
POSTAL SERVICE®**

**Click-N-Ship®**

**P**

usps.com 9405 5036 9930 0433 3012 54 0079 5000 0010 6472  
**US POSTAGE**  
 Flat Rate Env  
 07/03/2021

**U.S. POSTAGE PAID**  
 Click-N-Ship®

Mailed from 01566

**PRIORITY MAIL 2-DAY™**

Expected Delivery Date: 07/07/21  
 Ref#: CR-806386  
**0006**

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

SHIP TO:  
 DAVID TAMILEVICH  
 83 REEDS GAP RD  
 NORTHFORD CT 06472-1122

**USPS TRACKING #**

**9405 5036 9930 0433 3012 54**

Electronic Rate Approved #038555749



Cut on dotted line.

### Instructions

1. Each Click-N-Ship® label is unique. Labels are to be used as printed and used only once. DO NOT PHOTO COPY OR ALTER LABEL.
2. Place your label so it does not wrap around the edge of the package.
3. Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, DO NOT TAPE OVER BARCODE. Be sure all edges are secure.
4. To mail your package with PC Postage®, you may schedule a Package Pickup online, hand to your letter carrier, take to a Post Office™, or drop in a USPS collection box.
5. Mail your package on the "Ship Date" you selected when creating this label.

### Click-N-Ship® Label Record

**USPS TRACKING # :**  
**9405 5036 9930 0433 3012 54**

Trans. #: 537462990	Priority Mail® Postage: <b>\$7.95</b>
Print Date: 07/01/2021	Total: <b>\$7.95</b>
Ship Date: 07/03/2021	
Expected Delivery Date: 07/07/2021	

**From:** DEBORAH CHASE Ref#: CR-806386  
 NORTHEAST SITE SOLUTIONS, LLC  
 420 MAIN ST  
 STURBRIDGE MA 01566-1359

**To:** DAVID TAMILEVICH  
 83 REEDS GAP RD  
 NORTHFORD CT 06472-1122

\* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.



Thank you for shipping with the United States Postal Service!  
 Check the status of your shipment on the USPS Tracking® page at usps.com

## Deborah Chase

---

**From:** Deborah Chase  
**Sent:** Thursday, July 1, 2021 7:00 PM  
**To:** 'zeo@townofnorthbranfordct.com'  
**Cc:** 'townmanager@townofnorthbranfordct.com'  
**Subject:** RE: 83 Reeds Gap Road, North Branford CT 06472 VERIZON WIRELESS EM APPLICATION (806386-CROWN)  
**Attachments:** 83 REEDS GAP ROAD NORTH BRANFORD CT 06472 VERIZON WIRELESS EM APPLICATION (806386-Crown) - Copy.pdf

---

**From:** Deborah Chase <[deborah@northeastsitesolutions.com](mailto:deborah@northeastsitesolutions.com)>  
**Sent:** Thursday, July 1, 2021 6:58 PM  
**To:** 'zeo@townofnorthbranfordct.com' <[zeo@townofnorthbranfordct.com](mailto:zeo@townofnorthbranfordct.com)>  
**Cc:** 'townmanager@townofnorthbranfordct.com' <[townmanager@townofnorthbranfordct.com](mailto:townmanager@townofnorthbranfordct.com)>  
**Subject:** RE: 83 Reeds Gap Road, North Branford CT 06472 VERIZON WIRELESS EM APPLICATION (806386-CROWN)

File was too big so I have sent it via WeTransfer.  
Please let me know if you have issued with downloading.  
Thank you

---

**From:** Deborah Chase <[deborah@northeastsitesolutions.com](mailto:deborah@northeastsitesolutions.com)>  
**Sent:** Thursday, July 1, 2021 6:53 PM  
**To:** 'zeo@townofnorthbranfordct.com' <[zeo@townofnorthbranfordct.com](mailto:zeo@townofnorthbranfordct.com)>  
**Cc:** 'townmanager@townofnorthbranfordct.com' <[townmanager@townofnorthbranfordct.com](mailto:townmanager@townofnorthbranfordct.com)>  
**Subject:** 83 Reeds Gap Road, North Branford CT 06472 VERIZON WIRELESS EM APPLICATION (806386-CROWN)

Good afternoon-

Attached please find Verizon Wireless' exempt modification application that is being submitted to the Connecticut Siting Council today, July 1, 2021.

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

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🌳 Save a tree. Refuse. Reduce. Reuse. Recycle.