



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

October 12, 2021

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

**RE: Notice of Exempt Modification for Verizon:  
Crown Site BU: 842870  
434 Boston Post Road, Milford, CT 06460  
Latitude: 41° 13' 42.69" / Longitude: -73° 4' 12.47"**

Dear Ms. Bachman:

Verizon currently maintains fifteen (15) total antennas at the 90-foot centerline on the existing 150-foot self-support tower located at 434 Boston Post Road, Milford, CT. The tower is owned by Crown Castle and the property is owned by the City of Milford. Verizon now intends to swap nine (9) antennas, three (3) RRHs, add three (3) RRHs, swap one (1) OVP, remove six (6) coax lines and six (6) diplexers, install two (2) hybrid lines. Groundwork includes removal of three (3) RRHs.

**Tower modifications:**

- Swap nine (9) antennas
- Swap three (3) RRHs
- Add three (3) RRHs
- swap one (1) OVP
- remove six (6) coax lines
- six (6) diplexers
- install two (2) hybrid lines

**Ground modifications:**

- Remove three (3) RRHs

The facility was approved by the City of Milford Planning and Zoning Office on February 10, 2000 when a Zoning Permit was issued. This approval was given without conditions.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to the Honorable Benjamin G. Blake, as both the municipality and property owner, Stephen Harris, City of Milford Zoning Enforcement Officer, and Crown Castle is the tower owner.

Additionally:

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

For the foregoing reasons, Verizon respectfully submits that the proposed modifications to the above-reference telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j72(b)(2). Please send approval/rejection letter to my attention at the address listed below.

Sincerely,



Sarah Snell  
Site Acquisition Specialist  
1800 W. Park Drive  
Westborough, MA 01581  
T: 508-621-9146  
Sarah.Snell@crowncastle.com

Attachments

cc: Benjamin Blake, Mayor  
110 River Street  
Milford, CT 06460

Stephen Harris, Zoning Enforcement Officer  
70 West River Street  
Milford, CT 06460

Crown Castle, Tower Owner

# Exhibit A

## **Original Facility Approval**



434

DATE FILED 10 Feb 00  
RECEIPT # exempt  
FEE (INCLUDES CZC) \$ sec above

# City of Milford, Connecticut

## APPLICATION FOR ZONING PERMIT

INSTRUCTIONS: Fill out this application in duplicate. A scaled plot plan in duplicate, based on a certified surveyor's plot plan must be submitted with this application showing the proposed existing lot and building dimensions and the location of all buildings in relation to the street lines, side lot lines and rear lot lines.

ADDRESS OF PROPERTY Boston Post Road ZONE GB

MAP 64 BLOCK 470 PARCEL 6 LOT NO. ADDRESS MAP NO. LOT SIZE 2.73 acres

WIDTH OF STREET RIGHT OF WAY LESS THAN 50 FT.? YES NO X CORNER LOT? YES NO X

IS ANY PORTION OF THE LOT BELOW REGULATORY FLOOD ELEVATION? YES NO X CAM YES NO X

CITY WATER NA PRIVATE WELL\* SEWER\*\* NA SEPTIC\*\*\* ENGINEERING OFF STREET PERMIT #

OWNER City of Milford -> AT&T Wireless PCS LLC PHONE (203) 871-4022

ADDRESS OF OWNER 46 Dan Garber 149 Water St Norwalk Ct 06854

PRESENT USE OF PROPERTY Police Station STREET CITY STATE ZIP CODE

PROPOSED CONSTRUCTION NEW X ADDITION ALTERATION REPAIR

SIZE/USE OF PROPOSED CONSTRUCTION truss construction antenna - top of antenna hardware belongs to City, total height unknown - with fencing with barb wire enclosure 50' 154'x64' irregular shape with 20'x12' equip. bldg\*

NO. OF STORIES NA HEIGHT 150' REQUIRED PARKING SPACES NC LOT COVERAGE %

DATE OF APPROVALS: ZBA NA CASPR SITE PLAN 18 Jan 00 SPECIAL PERMIT

EXEMPTION ISSUED NA SUBDIV. NAME HISTORIC DIST. CERT. OF APPROPRIATENESS

CERTIFICATION: (WARNING) I hereby certify that I am making this application on behalf of and with full authority of the owner of the property and that I am aware of the Zoning Regulations pertinent in this case and that the statements made herein are true and correct. APPROVAL SHALL BE VALID FOR PLANS AS SUBMITTED.

### THE OCCUPANCY AND USE OF LAND AND BUILDINGS OR STRUCTURES PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY IS PROHIBITED

APPROVED BY: Peter W. Cristofore ACP  
Zoning Official

APPLICANT: NAME Peter H. Maxwell  
SIGNATURE [Signature] (Please Print)

DATE ISSUED 10 Feb 00

ADDRESS URS Greiner Woodward Clyde, Enterprise Dr 500  
CITY Rocky Hill STATE CT ZIP 06706  
TELEPHONE NO. ( )

\* Permit required from State Health Dept. for apartments, subdivisions, trailer parks, shopping centers and public buildings.  
\*\* Permits for sewer connections are granted by Sewer Commission  
\*\*\* Septic system approvals are granted by Health Department

RECEIVED  
FEB 22 2000  
Building Department  
Milford, CT

\* to be delivered to the site



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**From:** Charles Corell [mailto:ccorell@ci.milford.ct.us]  
**Sent:** Tuesday, February 23, 2016 2:53 PM  
**To:** Goodall, Amanda  
**Cc:** Joseph Griffith; Christine Angelica  
**Subject:** RE: [Milford CT] Cell Tower-434 Boston Post Road

Good afternoon

We located the original file and plans from our archives, there are no conditions in these documents, there is a statement of special inspections and a final statement of special inspections for the construction. Let me know if this helps you at all

Thanks  
Charlie Corell

# Exhibit B

## **Property Card**



Property Information

|                   |   |
|-------------------|---|
| Property Location | 434 BOSTON POST RD                      |
| Owner             | CITY OF MILFORD                         |
| Co-Owner          | C/O AT&T MBLTY-TAX DEPT                 |
| Mailing Address   | 754 PEACHTREE ST NE<br>ATLANTA GA 30308 |
| Land Use          | 434V CELL TOWER MDL-00                  |
| Land Class        | I                                       |
| Zoning Code       |   |
| Census Tract      |   |

|                  |                 |
|------------------|-----------------|
| Neighborhood     | D               |
| Acreage          | 0               |
| Utilities        | UNKNOWN         |
| Lot Setting/Desc | UNKNOWN UNKNOWN |
| Book / Page      | 02435/0430      |
| Fire District    |                 |

Primary Construction Details

|                   |            |
|-------------------|------------|
| Year Built        | 0          |
| Building Desc.    | CELL TOWER |
| Building Style    | UNKNOWN    |
| Building Grade    |            |
| Stories           |            |
| Occupancy         |            |
| Exterior Walls    |            |
| Exterior Walls 2  | NA         |
| Roof Style        |            |
| Roof Cover        |            |
| Interior Walls    |            |
| Interior Walls 2  | NA         |
| Interior Floors 1 |            |
| Interior Floors 2 | NA         |

|                  |    |
|------------------|----|
| Heating Fuel     |    |
| Heating Type     |    |
| AC Type          |    |
| Bedrooms         | 0  |
| Full Bathrooms   | 0  |
| Half Bathrooms   | 0  |
| Extra Fixtures   | 0  |
| Total Rooms      | 0  |
| Bath Style       | NA |
| Kitchen Style    | NA |
| Fin Bsmt Area    |    |
| Fin Bsmt Quality |    |
| Bsmt Gar         |    |
| Fireplaces       |    |

Photo



Sketch



(\*Industrial / Commercial Details)

|                    |        |
|--------------------|--------|
| Building Use       | Vacant |
| Building Condition |        |
| Sprinkler %        | NA     |
| Heat / AC          | NA     |
| Frame Type         | NA     |
| Baths / Plumbing   | NA     |
| Ceiling / Wall     | NA     |
| Rooms / Prtns      | NA     |
| Wall Height        | NA     |
| First Floor Use    | NA     |
| Foundation         | NA     |



City of Milford, CT

Property Listing Report

Map Block Lot

064 930 6 A

Bldg # 1

Sec # 1

PID 101882

Account

023341

Valuation Summary (Assessed value = 70% of Appraised Value)

| Item         | Appraised     | Assessed      |
|--------------|---------------|---------------|
| Buildings    | 0             | 0             |
| Extras       | 0             | 0             |
| Improvements |               |               |
| Outbuildings | 450000        | 315000        |
| Land         | 0             | 0             |
| <b>Total</b> | <b>450000</b> | <b>315000</b> |

Sub Areas

| Subarea Type      | Gross Area (sq ft) | Living Area (sq ft) |
|-------------------|--------------------|---------------------|
|                   |                    |                     |
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|                   |                    |                     |
| <b>Total Area</b> | <b>0</b>           | <b>0</b>            |

Outbuilding and Extra Features

| Type         | Description |
|--------------|-------------|
| CEL TWR SITE | 1 UNITS     |
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Sales History

| Owner of Record | Book/ Page | Sale Date  | Sale Price |
|-----------------|------------|------------|------------|
| CITY OF MILFORD | 02435/0430 | 1999-11-22 | 0          |



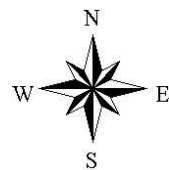
Date Printed: 10/12/2021



**MAP DISCLAIMER - NOTICE OF LIABILITY**

This map is for assessment purposes only. It is not for legal description or conveyances. All information is subject to verification by any user. The City of Milford and its mapping contractors assume no legal responsibility for the information contained herein.

Approximate Scale: 1 inch = 80 feet



# Exhibit C

## **Construction Drawings**

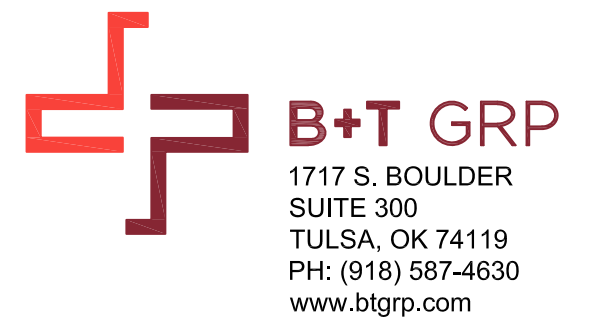




**VERIZON SITE NUMBER:** 469110  
**VERIZON SITE NAME:** MILFORD CENTER CT  
**SITE TYPE:** SELF-SUPPORT TOWER  
**TOWER HEIGHT:** 150'-0"

**BUSINESS UNIT #:** 842870  
**SITE ADDRESS:** 434 BOSTON POST ROAD  
 MILFORD, CT 06460  
**COUNTY:** NEW HAVEN  
**JURISDICTION:** CONNECTICUT SITTING COUNCIL

**VERIZON 5G L-SUB6 - CARRIER ADD 16231893**



**VERIZON SITE NUMBER:**  
469110  
**BU #:** 842870  
**MILFORD**  
 434 BOSTON POST ROAD  
 MILFORD, CT 06460  
 EXISTING 150'-0"  
 SELF-SUPPORT TOWER

| ISSUED FOR: |         |      |              |         |
|-------------|---------|------|--------------|---------|
| REV         | DATE    | DRWN | DESCRIPTION  | DES./QA |
| 0           | 8/24/21 | JJR  | CONSTRUCTION | JJR     |

**SITE INFORMATION**

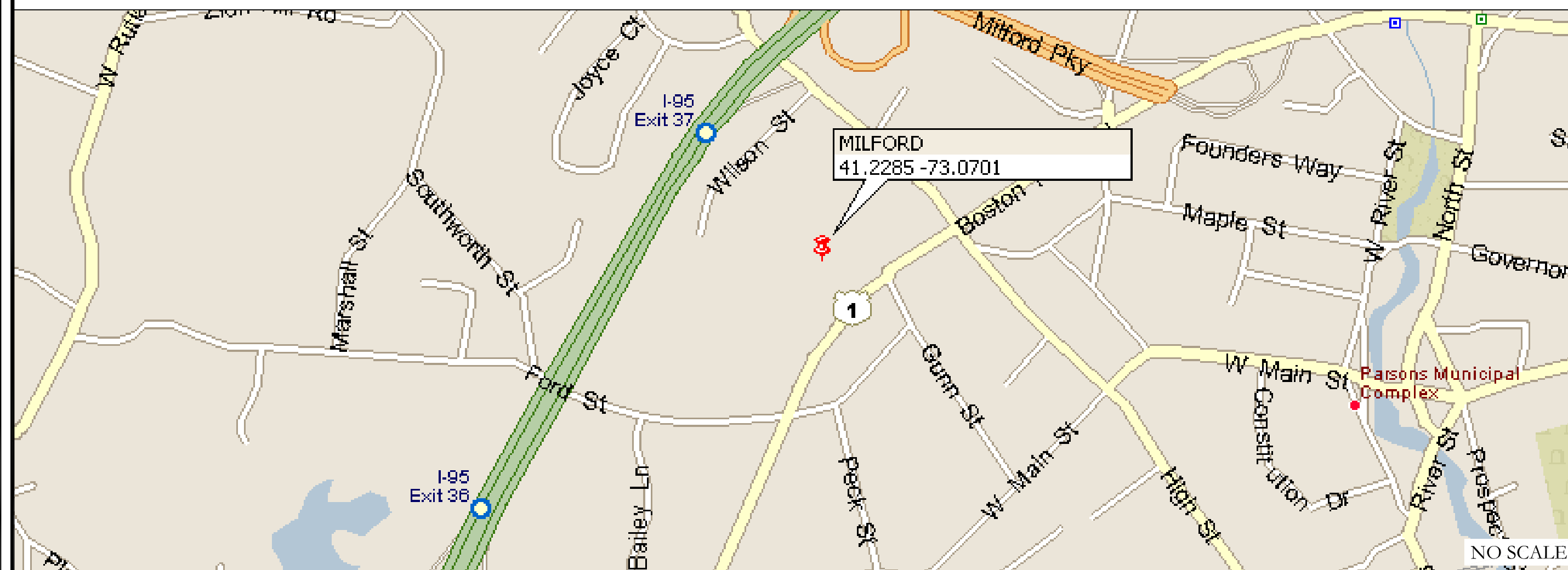
CROWN CASTLE USA INC. MILFORD  
 SITE NAME:  
 SITE ADDRESS: 434 BOSTON POST ROAD  
 MILFORD, CT 06460  
 COUNTY: NEW HAVEN  
 MAP/PARCEL #: 064 930 7  
 AREA OF CONSTRUCTION: EXISTING  
 LATITUDE: 41.228528  
 LONGITUDE: -73.070139  
 LAT/LONG TYPE: NAD83  
 GROUND ELEVATION: 70'  
 CURRENT ZONING: CDD-1  
 JURISDICTION: CONNECTICUT SITTING COUNCIL  
 OCCUPANCY CLASSIFICATION: U  
 TYPE OF CONSTRUCTION: IIB  
 A.D.A. COMPLIANCE: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION  
 PROPERTY OWNER: GOLD COAST REALTY LLC  
 470 BOSTON POST RD  
 MILFORD, CT 06460  
 TOWER OWNER: CROWN CASTLE  
 2000 CORPORATE DRIVE  
 CANONSBURG, PA 15317  
 CARRIER/APPLICANT: VERIZON WIRELESS  
 180 WASHINGTON VALLEY ROAD  
 BEDMINSTER, NJ 07921  
 ELECTRIC PROVIDER: UNITED ILLUMINATING CO.  
 N/A  
 TELCO PROVIDER: N/A  
 N/A

**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.

**LOCATION MAP**



DRIVING DIRECTIONS FROM JOHN F. KENNEDY INTERNATIONAL AIRPORT:  
 GET ON I-678 N FROM 130TH PL FOLLOW I-678 N AND I-95 N TO HIGH ST IN MILFORD. TAKE EXIT 37 FROM I-95 N CONTINUE ON HIGH ST TO YOUR DESTINATION

**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: | B+T GROUP                    |
| DATED:               | 5/22/21                      |
| MOUNT ANALYSIS:      | MASER CONSULTING CONNECTICUT |
| DATED:               | 6/30/21                      |
| RFDS REVISION:       | 1                            |
| DATED:               | 4/8/21                       |
| ORDER ID:            | 568291                       |
| 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:**

- REMOVE (9) ANTENNAS
- REMOVE (3) RADIOS
- REMOVE (6) DIPLEXERS
- REMOVE (1) OVP
- REMOVE (1) COAX CABLE
- INSTALL (9) ANTENNAS
- INSTALL (6) RADIOS
- INSTALL (1) OVP
- INSTALL (2) 6x12 HYBRIFLEX LI

**GROUND SCOPE OF WORK:**

- REMOVE (3) NOKIA - UHBA B13 RRH 4x30

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.  
 TULSA, OK 74119  
 JENNY PAUL  
 CROWN CASTLE USA INC. DISTRICT CONTACTS:  
 3 CORPORATE PARK DRIVE, SUITE 101  
 CLIFTON PARK, NY 12065  
 N/A - PROJECT MANAGER  
 N/A  
 N/A - CONSTRUCTION MANAGER  
 N/A  
 VERIZON CONTACT: ANDREW LEONE  
 ALEONE@STRUCTURECONSULTING.NET

**CONTRACTOR PMI REQUIREMENTS**

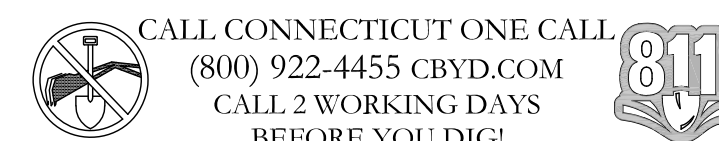
|                          |                          |
|--------------------------|--------------------------|
| PMI ACCESSED AT          | https://pmi.vxwsmart.com |
| SMART TOOL VENDOR        |                          |
| PROJECT NUMBER           | 10078045                 |
| VzW LOCATION CODE (PSLC) | 460110                   |

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

| MOUNT MODIFICATION REQUIRED | Y |
|-----------------------------|---|
|                             |   |

**VzW APPROVED SMART KIT VENDORS**

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



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: | REVISION: |
|---------------|-----------|
| T-1           | 0         |



CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

- 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. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN CASTLE USA INC. NOC AT 800-788-7011 & THE CROWN CASTLE USA INC. CONSTRUCTION MANAGER.
- "LOOK UP" - CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT: THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR CROWN CASTLE USA INC. POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.
- PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IS NOT LIMITED TO, BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD ZONE, ENVIRONMENTAL, AND ZONING. AFTER ONSITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL REQUIREMENTS.
- ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN, AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND CROWN CASTLE USA INC. STANDARD CED-STD-10253, INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA-322 (LATEST EDITION).
- ALL SITE WORK TO COMPLY WITH QAS-STD-10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE," CED-STD-10294 "STANDARD FOR INSTALLATION OF MOUNTS AND APPURTENANCES," AND LATEST VERSION OF ANSI/TIA-1019-A-2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."
- 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. PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO: A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION E) CONSTRUCTION SAFETY PROCEDURES.
- ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS, LATEST APPROVED REVISION.
- CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, TOWER OWNER, CROWN CASTLE USA INC., AND/OR LOCAL UTILITIES.
- 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.
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS.
- THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- 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.
- 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.
- 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.
- CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
- CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.
- 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:

- 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.
- THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS. THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
- 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.
- 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.
- METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
- 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.
- 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.
- ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
- ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
- COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
- ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
- APPROVED ANTIOXIDANT COATINGS (i.e. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
- MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
- BOND ALL METALLIC OBJECTS WITHIN 6 FT. OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR.
- 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. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (i.e., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
- 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. THE EXPOSED END OF THE CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).
- 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:

- 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.
- 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. IT IS ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
- THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.
- NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.
- 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 BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.
- 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. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CROWN CASTLE.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- 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 PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
- 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.
- 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 CROWN CASTLE USA INC.
- CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
- CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

- 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.
- UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90°F AT TIME OF PLACEMENT.
- CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER-TO-CEMENT RATIO (W/C) OF 0.45.
- ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WFW) SHALL CONFORM TO ASTM A185. ALL SPLICES SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (Fy) OF STANDARD DEFORMED BARS ARE AS FOLLOWS:  
#4 BARS AND SMALLER.....40 ksi  
#5 BARS AND LARGER.....60 ksi
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:  
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.....3"  
CONCRETE EXPOSED TO EARTH OR WEATHER:  
#6 BARS AND LARGER.....2"  
#5 BARS AND SMALLER.....1-1/2"  
CONCRETE NOT EXPOSED TO EARTH OR WEATHER:  
SLAB AND WALLS.....3/4"  
BEAMS AND COLUMNS.....1-1/2"
- 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:

- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
- CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
- WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
- ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.
- ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 22,000 AIC MINIMUM. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADOPTED CODE PRE THE GOVERNING JURISDICTION.
- EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
- 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 (i.e. PANEL BOARD AND CIRCUIT ID'S).
- PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
- ALL THE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- 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.
- 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.
- POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI-CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.
- 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.
- 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).
- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
- ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- ELECTRICAL METALLIC TUBING (EMT) OR METAL-CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET NUTS AND FITTINGS SHALL NOT BE USED.
- CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEC AND THE NEC.
- WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREMOLD SPECMATE WIREWAY).
- SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).
- CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES (i.e. POWDER-ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKOUT ON OUTSIDE AND INSIDE.
- EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL. SHALL MEET OR EXCEED UL 50 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3R (OR BETTER) FOR EXTERIOR LOCATIONS.
- METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
- 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.
- 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.
- THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
- INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "VERIZON".
- ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

| CONDUCTOR COLOR CODE |           |                  |
|----------------------|-----------|------------------|
| SYSTEM               | CONDUCTOR | COLOR            |
| 120/240V, 1Ø         | A PHASE   | BLACK            |
|                      | B PHASE   | RED              |
|                      | NEUTRAL   | WHITE            |
|                      | GROUND    | GREEN            |
|                      | A PHASE   | BLACK            |
| 120/208V, 3Ø         | B PHASE   | RED              |
|                      | C PHASE   | BLUE             |
|                      | NEUTRAL   | WHITE            |
|                      | GROUND    | GREEN            |
|                      | A PHASE   | BROWN            |
| 277/480V, 3Ø         | B PHASE   | ORANGE OR PURPLE |
|                      | C PHASE   | YELLOW           |
|                      | NEUTRAL   | GREY             |
|                      | GROUND    | GREEN            |
|                      | A PHASE   | BROWN            |
| DC VOLTAGE           | POS (+)   | RED**            |
|                      | NEG (-)   | BLACK**          |

\* 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
- RET REMOTE ELECTRIC TILT
- RFDS RADIO FREQUENCY DATA SHEET
- RRH REMOTE RADIO HEAD
- RRI REMOTE RADIO UNIT
- SIAD SMART INTEGRATED DEVICE
- TMA TOWER MOUNTED AMPLIFIER
- TYP TYPICAL
- UMTS UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM
- W.P. WORK POINT



180 WASHINGTON WAY  
BEDMINSTER, NJ 07921



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



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

VERIZON SITE NUMBER:  
**469110**

BU #: **842870**  
**MILFORD**

434 BOSTON POST ROAD  
MILFORD, CT 06460

EXISTING 150'-0"  
SELF-SUPPORT TOWER

| ISSUED FOR: |         |      |              |         |
|-------------|---------|------|--------------|---------|
| REV         | DATE    | DRWN | DESCRIPTION  | DES./QA |
| 0           | 8/24/21 | JJR  | CONSTRUCTION | JJR     |
|             |         |      |              |         |
|             |         |      |              |         |
|             |         |      |              |         |

**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



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

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



VERIZON SITE NUMBER:  
**469110**

BU #: **842870**  
**MILFORD**

434 BOSTON POST ROAD  
 MILFORD, CT 06460

EXISTING 150'-0"  
 SELF-SUPPORT TOWER

**ISSUED FOR:**

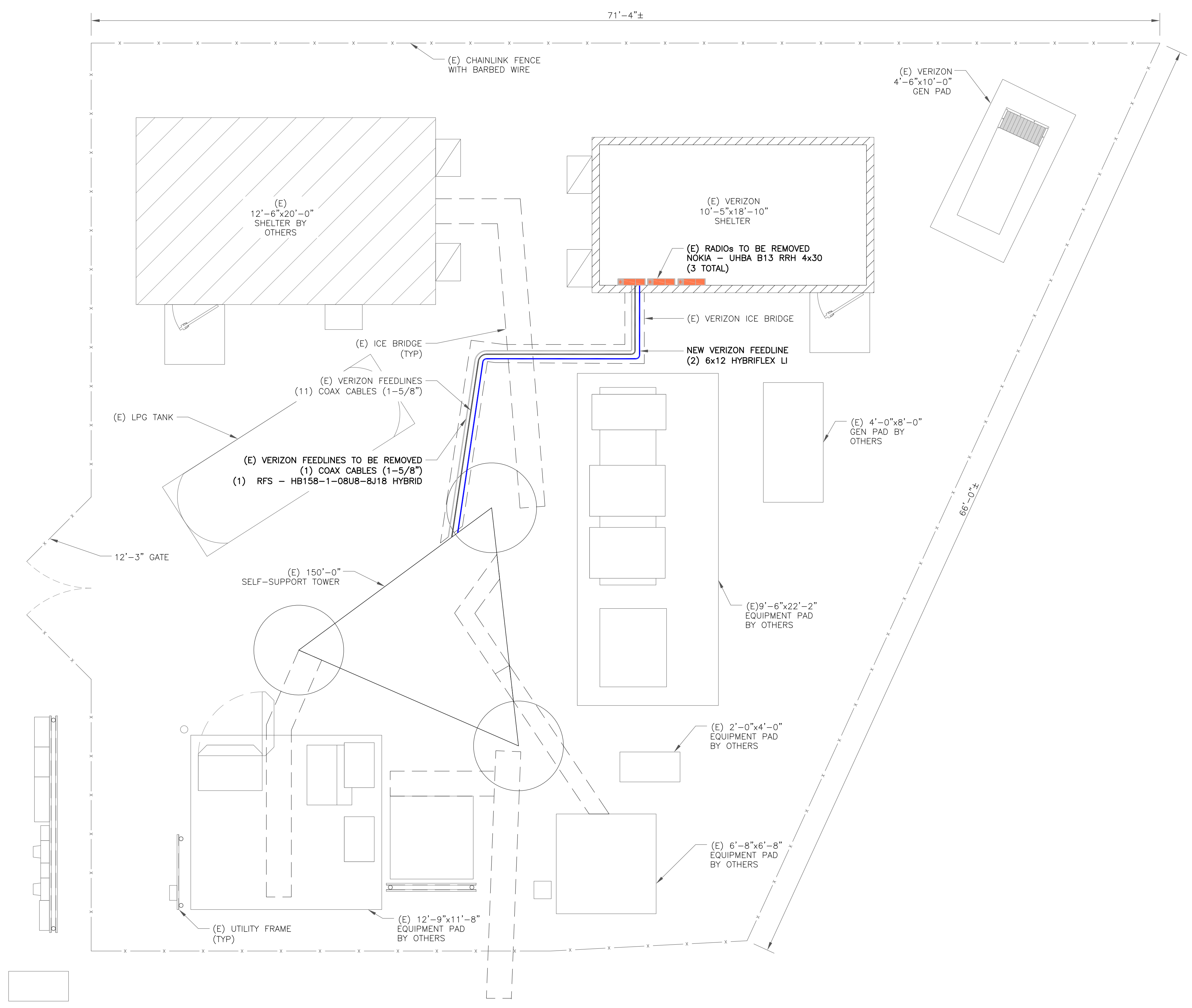
| REV | DATE    | DRWN | DESCRIPTION  | DES./QA |
|-----|---------|------|--------------|---------|
| 0   | 8/24/21 | JJR  | CONSTRUCTION | JJR     |
|     |         |      |              |         |
|     |         |      |              |         |



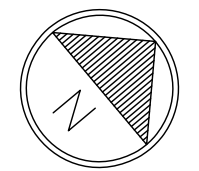
B&T ENGINEERING, INC.  
 PEC.0001564  
 Expires 2/10/22

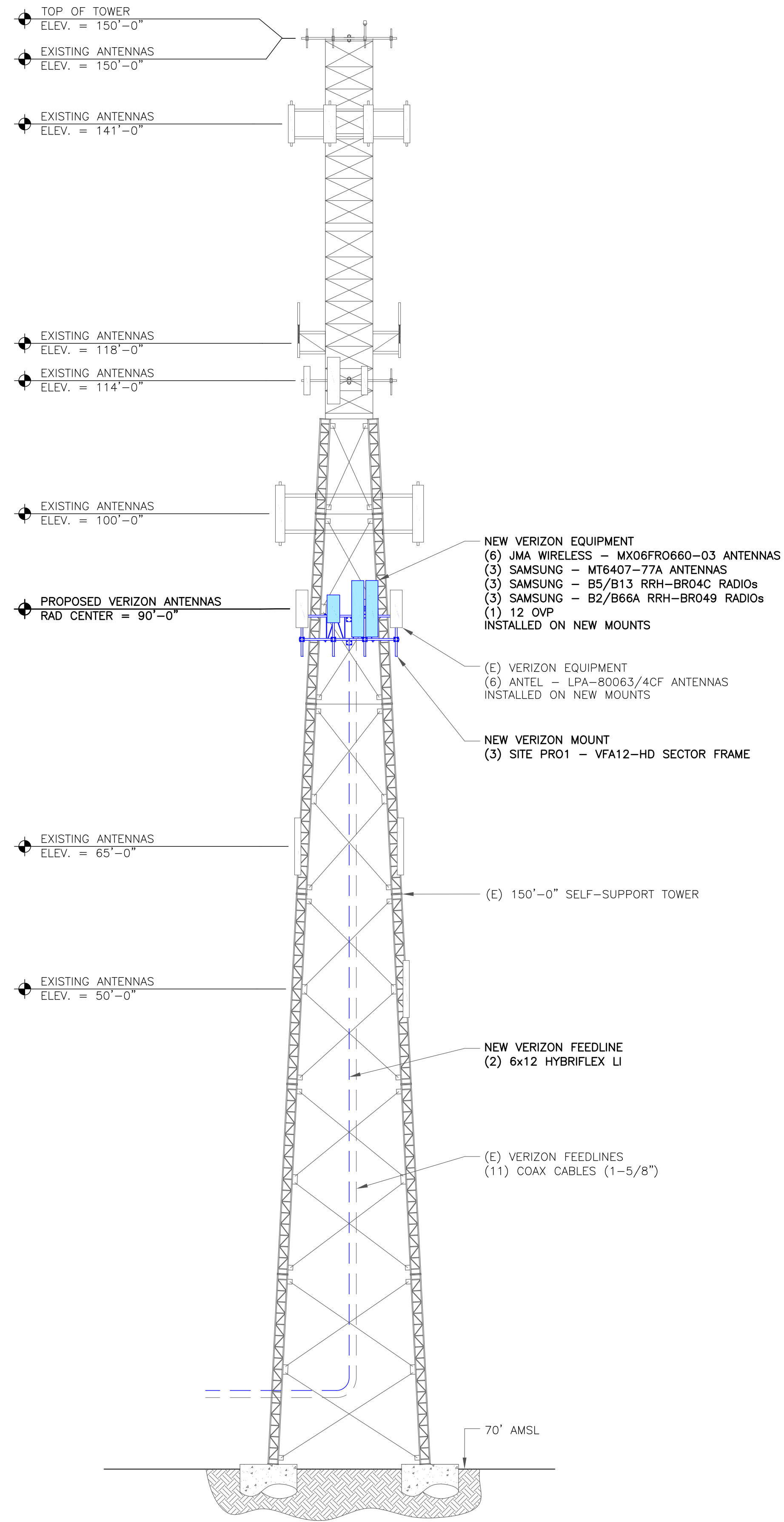
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SHEET NUMBER: **C-1**      REVISION: **0**



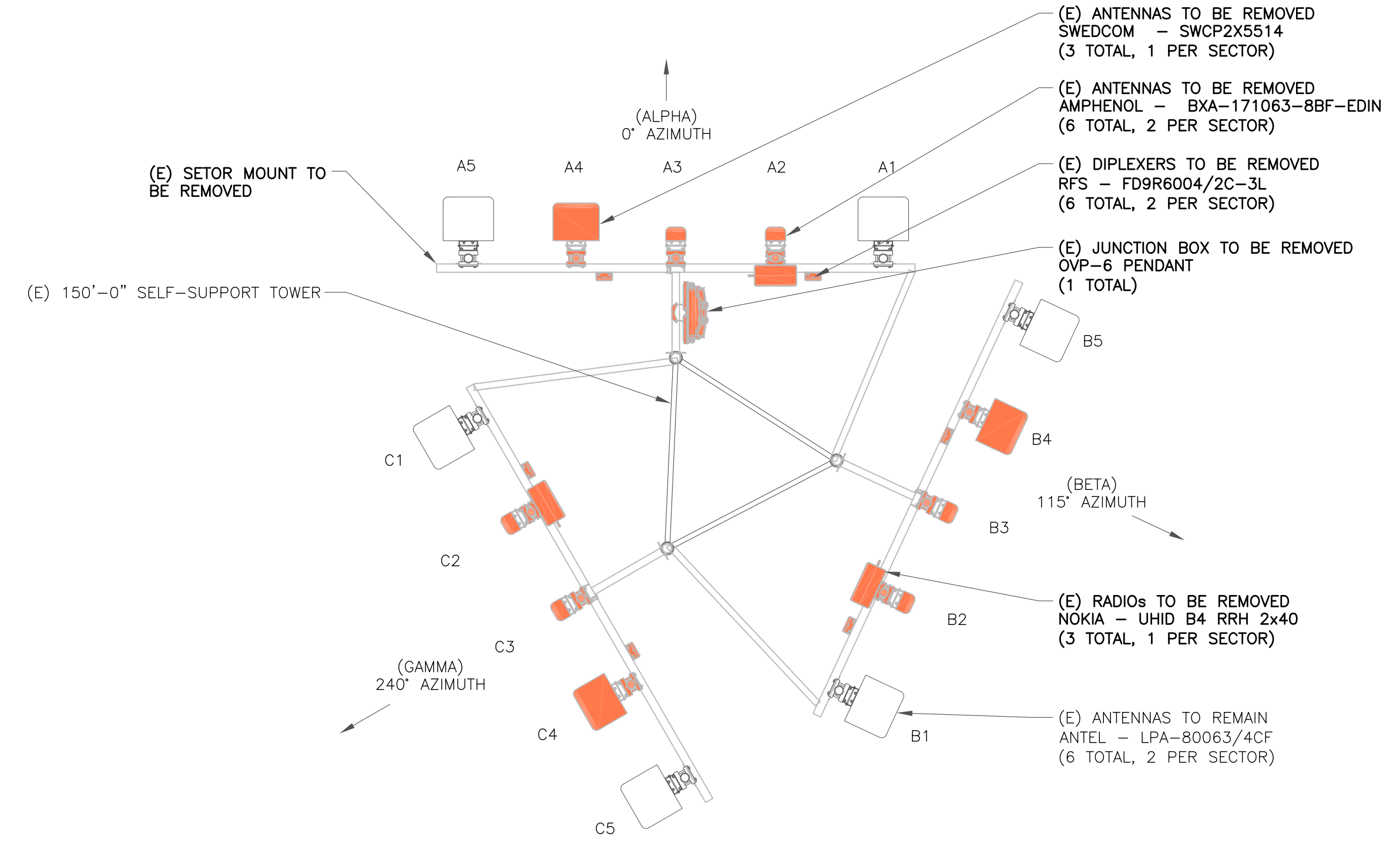
1 SITE PLAN  
 SCALE: 1/4"=1'-0" (FULL SIZE)  
 1/8"=1'-0" (11x17)



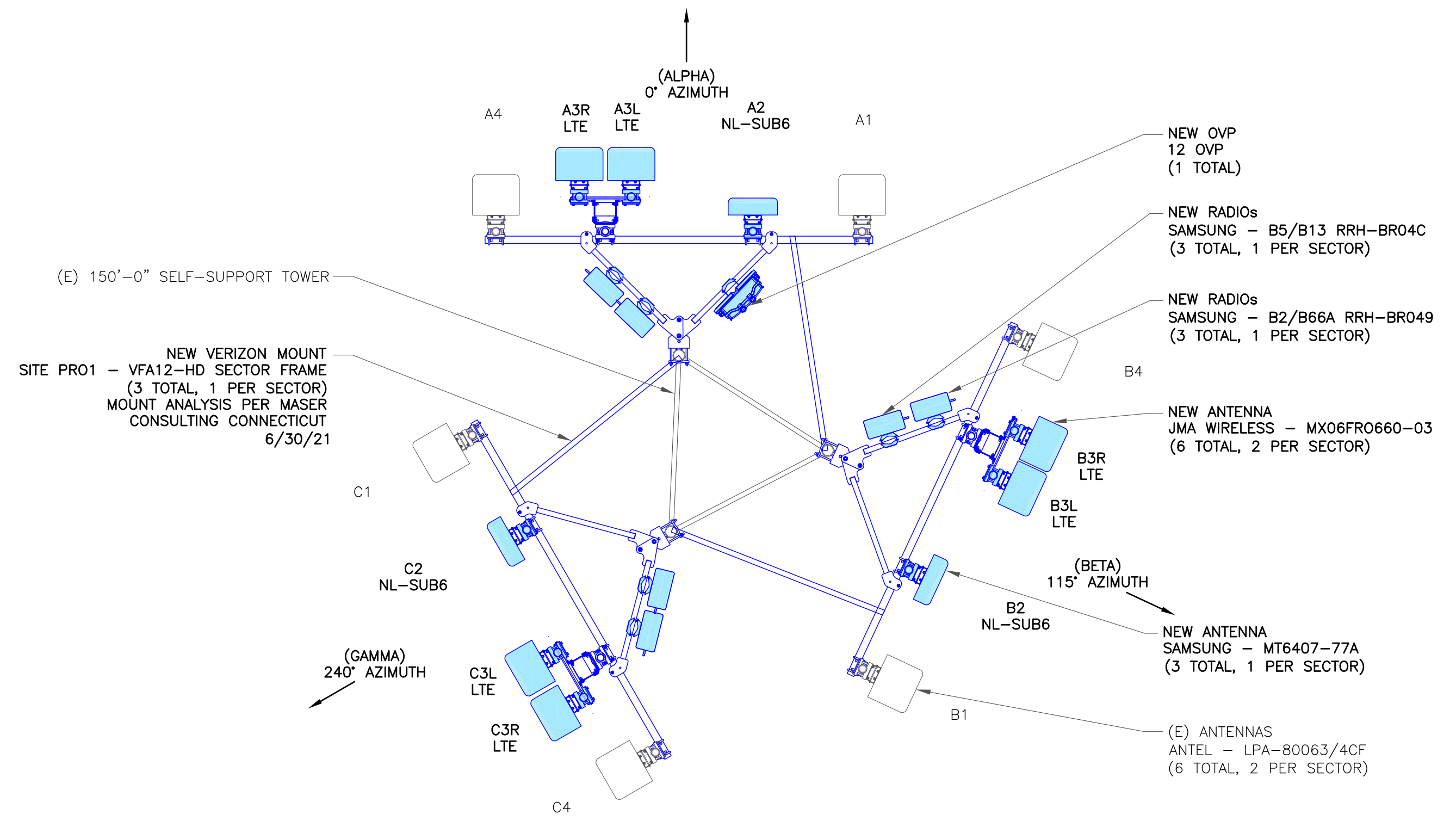


1 TOWER ELEVATION  
SCALE: NOT TO SCALE

**VERIZON EQUIPMENT**  
ANTENNA CL: 90'-0"  
MOUNT CL: 88'-0"



2 EXISTING ANTENNA PLAN  
SCALE: NOT TO SCALE



3 NEW ANTENNA PLAN  
SCALE: NOT TO SCALE

**verizon**  
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:  
**469110**

BU #: **842870**  
**MILFORD**

434 BOSTON POST ROAD  
MILFORD, CT 06460

EXISTING 150'-0"  
SELF-SUPPORT TOWER

**ISSUED FOR:**

| REV | DATE    | DRWN | DESCRIPTION  | DES./QA |
|-----|---------|------|--------------|---------|
| 0   | 8/24/21 | JJR  | CONSTRUCTION | JJR     |
|     |         |      |              |         |
|     |         |      |              |         |

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

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

91292.020.01\_MILFORD.dwg - Sheet-C-2 - User: richardson - Aug 24, 2021 - 1:27pm



VERIZON SITE NUMBER:  
**469110**

BU #: **842870**  
**MILFORD**

434 BOSTON POST ROAD  
 MILFORD, CT 06460

EXISTING 150'-0"  
 SELF-SUPPORT TOWER

**ISSUED FOR:**

| REV | DATE    | DRWN | DESCRIPTION  | DES./QA |
|-----|---------|------|--------------|---------|
| 0   | 8/24/21 | JJR  | CONSTRUCTION | JJR     |
|     |         |      |              |         |
|     |         |      |              |         |



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SHEET NUMBER: REVISION:

**C-3** **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 | ANTEL                | LPA-80063/4CF | 90'-0"             | 0°      | 0°                   | 0°                   | -                            | -                         |
| A2     | NEW      | SAMSUNG              | MT6407-77A    | 90'-0"             | 0°      | 0°                   | 6°                   | SAMSUNG                      | (1) 12 OVP                |
| A3     | NEW      | JMA WIRELESS         | MX06FRO660-03 | 90'-0"             | 0°      | 0°                   | 4°/4°/0°/0°          | SAMSUNG                      | (1) B5/B13 RRH-BR04C      |
| A4     | NEW      | JMA WIRELESS         | MX06FRO660-03 | 90'-0"             | 0°      | 0°                   | 4°/4°/0°/0°          | SAMSUNG                      | (1) B2/B66A RRH-BR049     |
| A5     | EXISTING | ANTEL                | LPA-80063/4CF | 90'-0"             | 0°      | 0°                   | 0°                   | -                            | -                         |

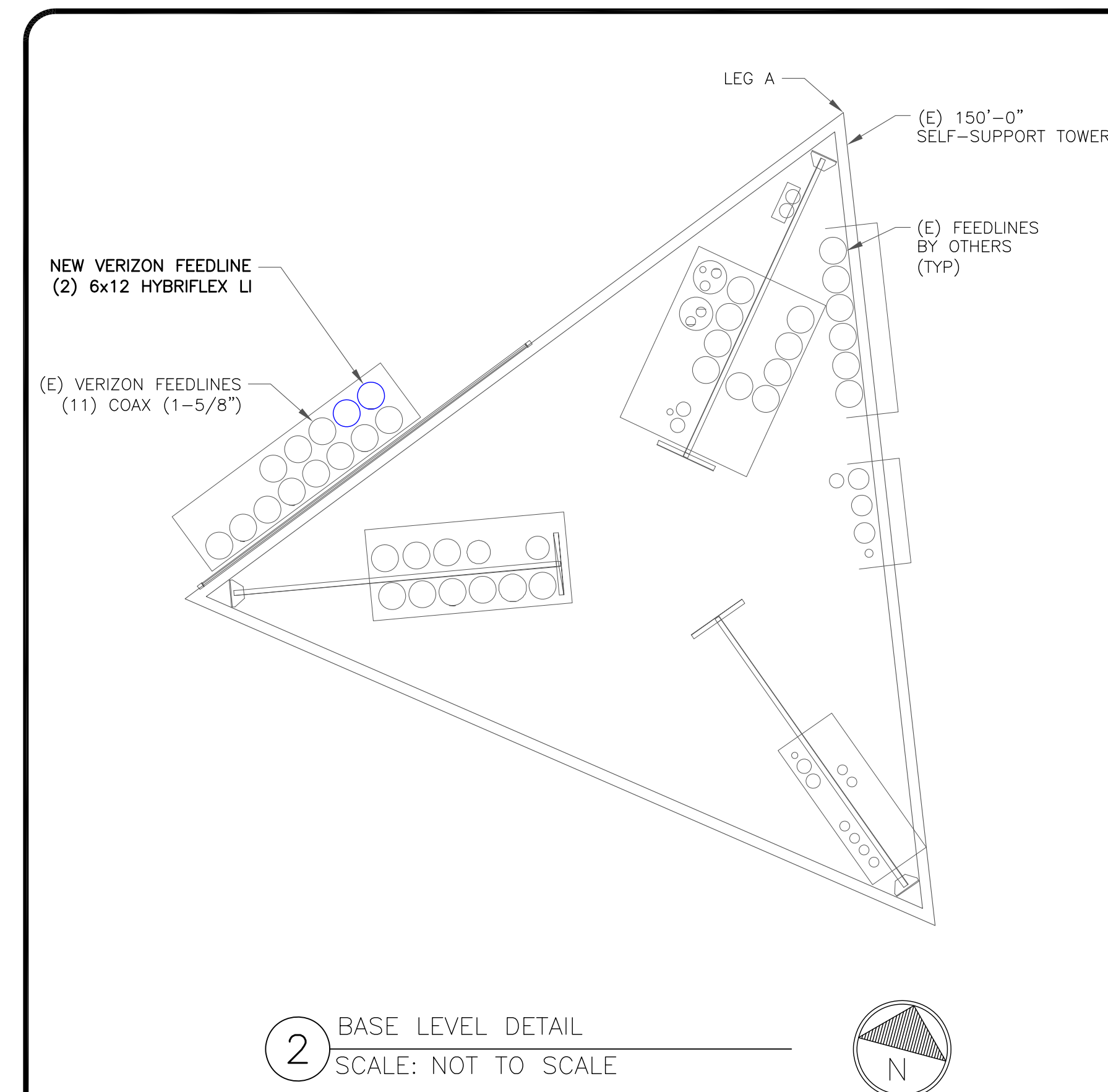
|    |          |              |               |        |      |    |             |         |                       |
|----|----------|--------------|---------------|--------|------|----|-------------|---------|-----------------------|
| B1 | EXISTING | ANTEL        | LPA-80063/4CF | 90'-0" | 115° | 0° | 0°          | -       | -                     |
| B2 | NEW      | SAMSUNG      | MT6407-77A    | 90'-0" | 115° | 0° | 6°          | SAMSUNG | (1)                   |
| B3 | NEW      | JMA WIRELESS | MX06FRO660-03 | 90'-0" | 115° | 0° | 2°/2°/0°/0° | SAMSUNG | (1) B5/B13 RRH-BR04C  |
| B4 | NEW      | JMA WIRELESS | MX06FRO660-03 | 90'-0" | 115° | 0° | 2°/2°/0°/0° | SAMSUNG | (1) B2/B66A RRH-BR049 |
| B5 | EXISTING | ANTEL        | LPA-80063/4CF | 90'-0" | 115° | 0° | 0°          | -       | -                     |

|    |          |              |               |        |      |    |             |         |                       |
|----|----------|--------------|---------------|--------|------|----|-------------|---------|-----------------------|
| C1 | EXISTING | ANTEL        | LPA-80063/4CF | 90'-0" | 240° | 0° | 0°          | -       | -                     |
| C2 | NEW      | SAMSUNG      | MT6407-77A    | 90'-0" | 240° | 0° | 6°          | SAMSUNG | (1)                   |
| C3 | NEW      | JMA WIRELESS | MX06FRO660-03 | 90'-0" | 240° | 0° | 4°/4°/0°/0° | SAMSUNG | (1) B5/B13 RRH-BR04C  |
| C4 | NEW      | JMA WIRELESS | MX06FRO660-03 | 90'-0" | 240° | 0° | 4°/4°/0°/0° | SAMSUNG | (1) B2/B66A RRH-BR049 |
| C5 | EXISTING | ANTEL        | LPA-80063/4CF | 90'-0" | 240° | 0° | 0°          | -       | -                     |

1 VERIZON TOWER EQUIPMENT SCHEDULE  
 SCALE: NOT TO SCALE

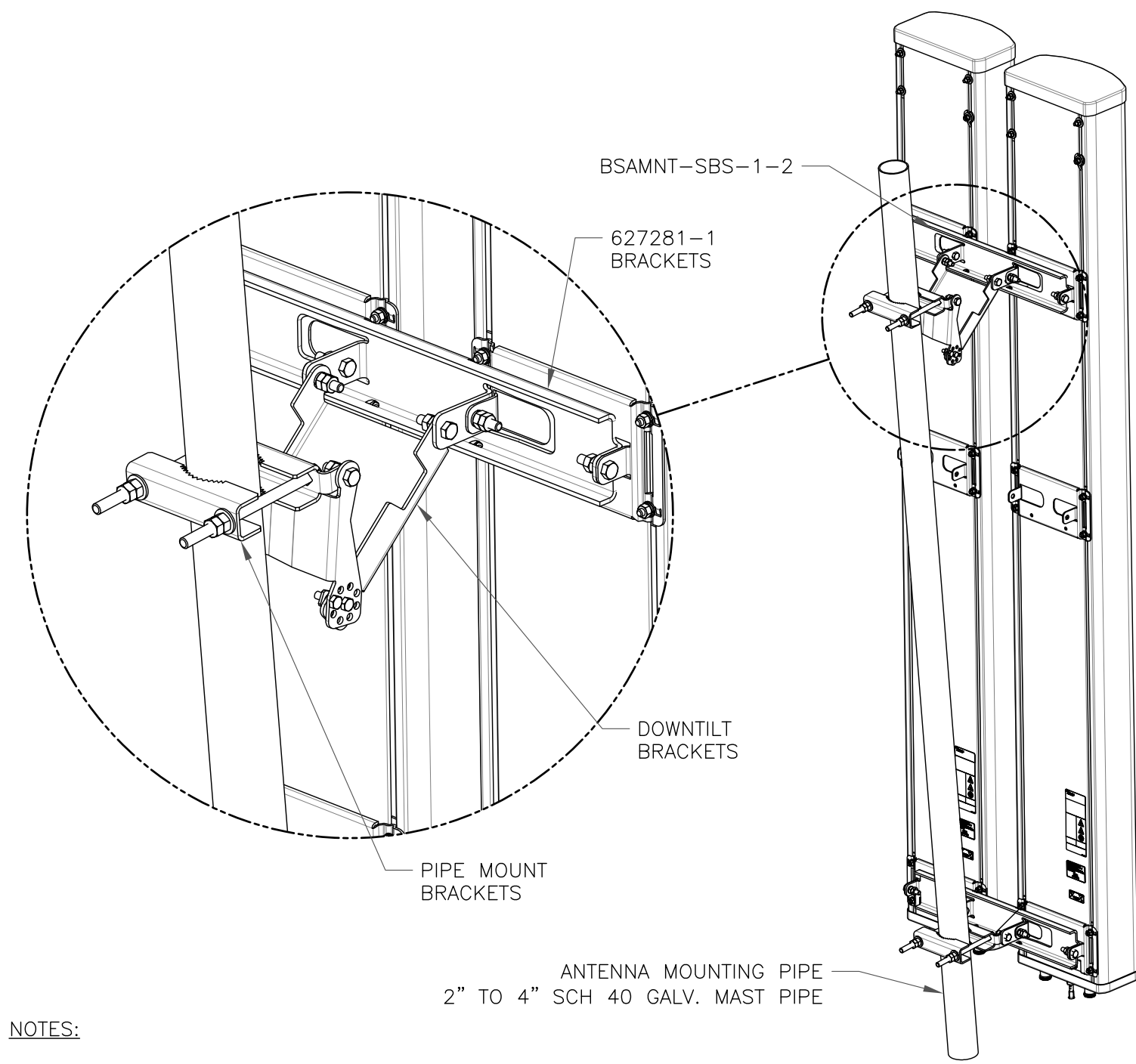
CABLE SCHEDULE

| STATUS           | CABLE TYPE | SIZE   | LENGTH   | QTY |
|------------------|------------|--------|----------|-----|
| EXISTING         | COAX       | 1-5/8" | 140'-0"± | 11  |
| NEW              | HYBRID     | 6X12   | 140'-0"± | 2   |
| TOTAL CABLE QTY: |            |        |          | 13  |



2 BASE LEVEL DETAIL  
 SCALE: NOT TO SCALE



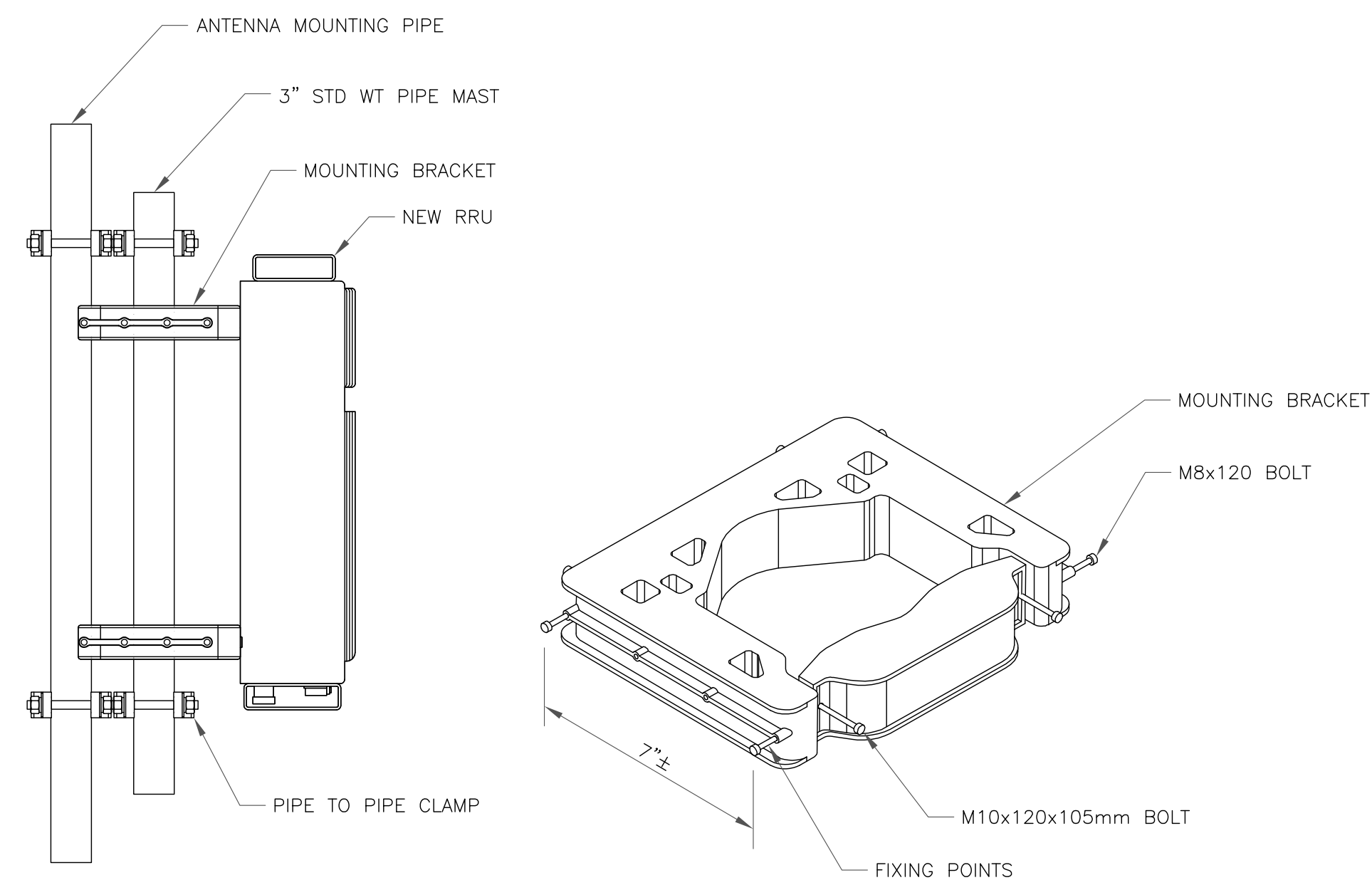


**NOTES:**

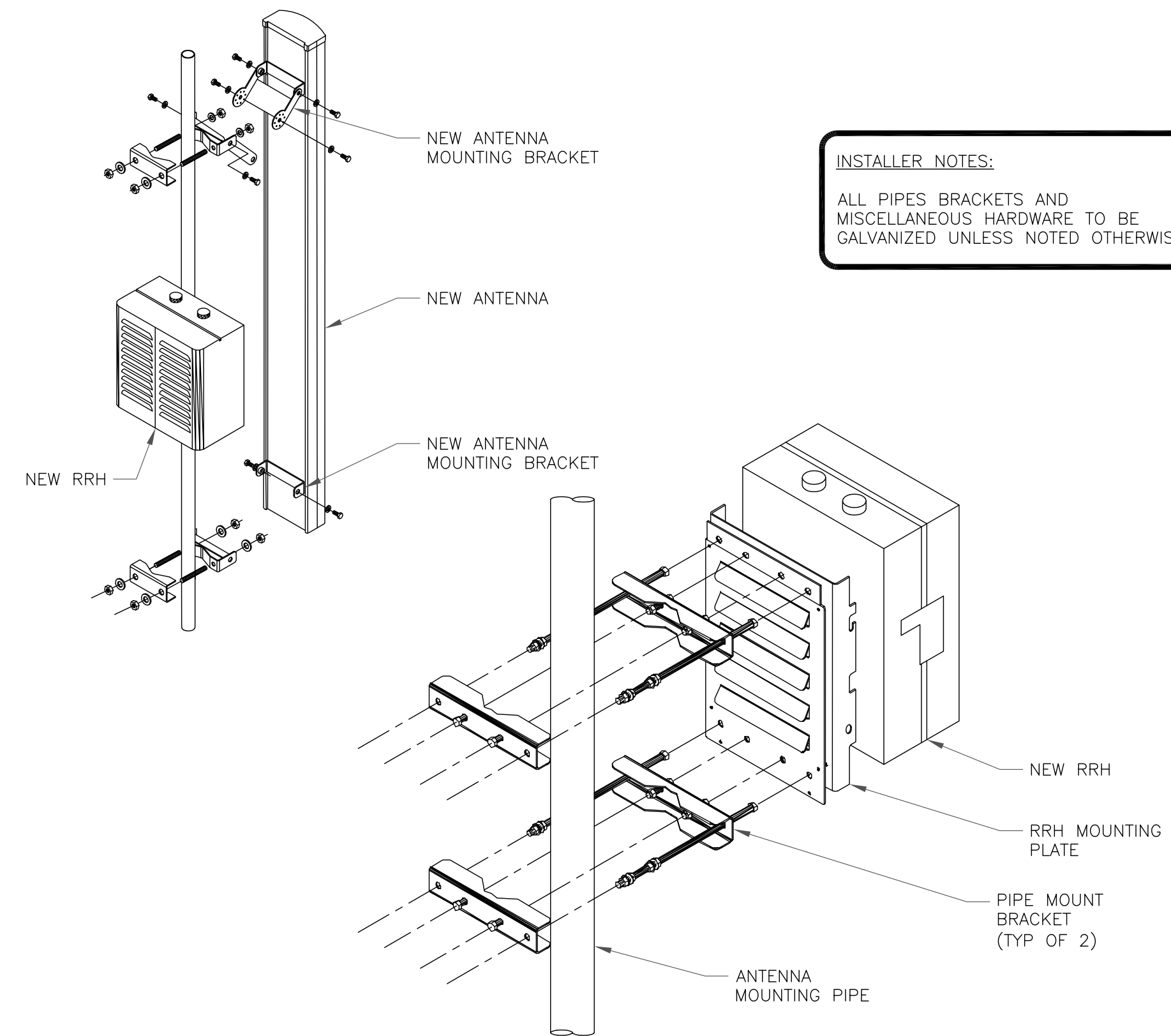
- BSAMNT-SBS-1-2 KIT CONTAINS (2) 627281 MOUNTING BRACKETS.
- TORQUE THE M10 BOLT ASSEMBLY TO 37 N.m. PER MANUFACTURE'S RECOMMENDATIONS.

1 COMMSCOPE - BSAMNT-SBS-1-2  
SCALE: NOT TO SCALE

2 NOT USED  
SCALE: NOT TO SCALE



3 NOKIA - FPKA BRACKET MOUNTING DETAIL  
SCALE: NOT TO SCALE



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

4 ANTENNA & RRH MOUNTING DETAIL  
SCALE: NOT TO SCALE

**verizon**  
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SUITE 300  
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VERIZON SITE NUMBER:  
**469110**

BU #: **842870**  
**MILFORD**

434 BOSTON POST ROAD  
MILFORD, CT 06460

EXISTING 150'-0"  
SELF-SUPPORT TOWER

**ISSUED FOR:**

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| 0   | 8/24/21 | JJR  | CONSTRUCTION | JJR     |
|     |         |      |              |         |
|     |         |      |              |         |



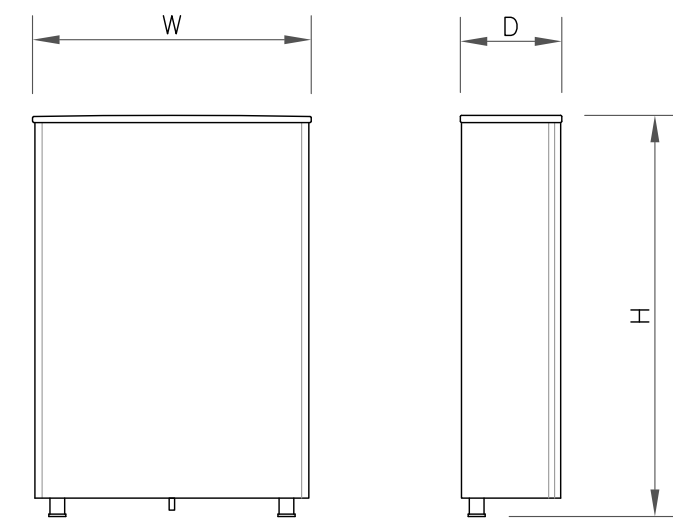
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SHEET NUMBER:  
**C-4**

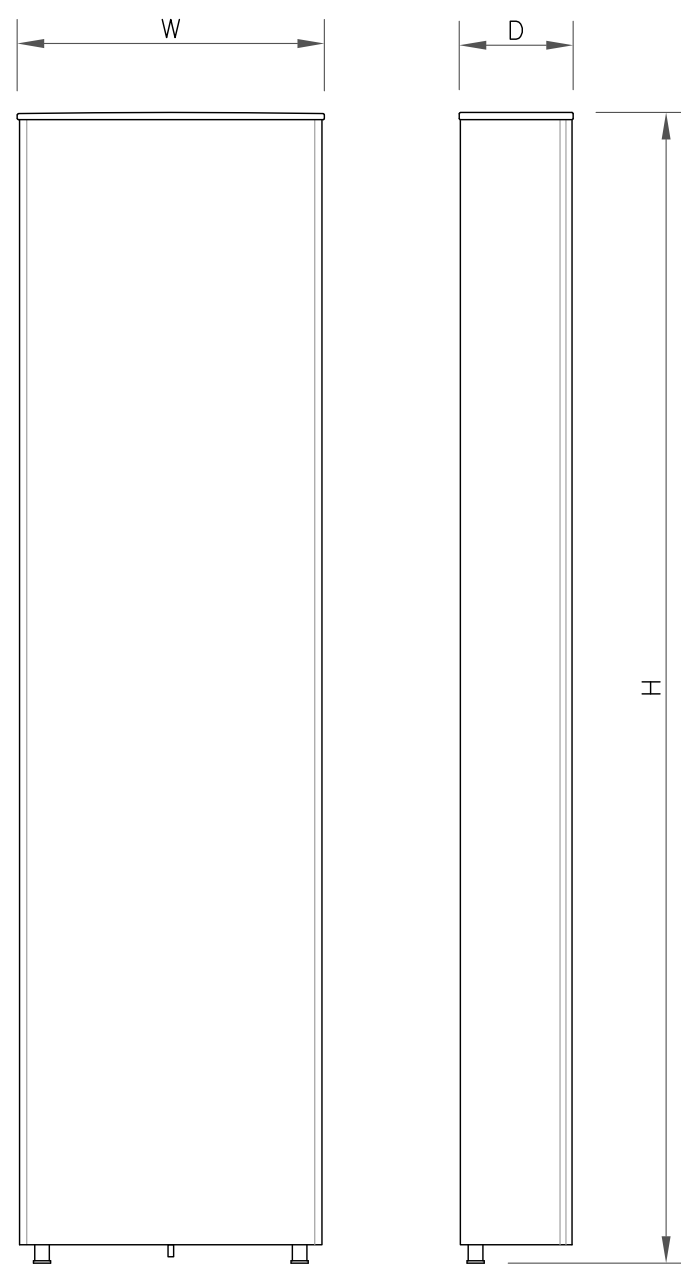
REVISION:  
**0**





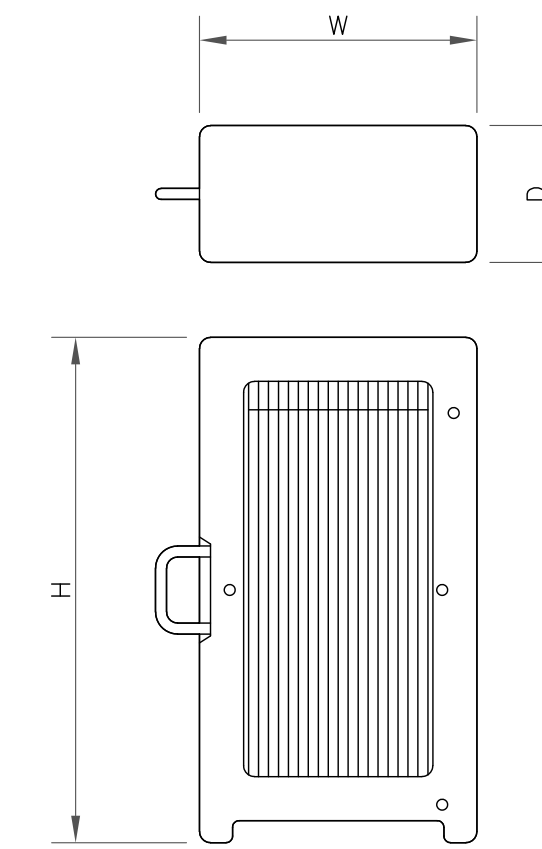
| ANTENNA SPECS |            |
|---------------|------------|
| MANUFACTURER  | SAMSUNG    |
| MODEL #       | MT6407-77A |
| WIDTH         | 16.06"     |
| DEPTH         | 5.51"      |
| HEIGHT        | 35.06"     |
| WEIGHT        | 81.57 LBS  |

1 ANTENNA SPECS  
SCALE: NOT TO SCALE



| ANTENNA SPECS |               |
|---------------|---------------|
| MANUFACTURER  | JMA           |
| MODEL #       | MX06FRO660-03 |
| WIDTH         | 15.40"        |
| DEPTH         | 10.70"        |
| HEIGHT        | 71.30"        |
| WEIGHT        | 78.00         |

2 ANTENNA SPECS  
SCALE: NOT TO SCALE



| RRU SPECIFICATIONS |            |
|--------------------|------------|
| MANUFACTURER       | SAMSUNG    |
| MODEL #            | RFV01U-D1A |
| WIDTH              | 15.00"     |
| DEPTH              | 10.00"     |
| HEIGHT             | 15.00"     |
| WEIGHT             | 84.40 LBS  |

3 RRU SPECS  
SCALE: NOT TO SCALE

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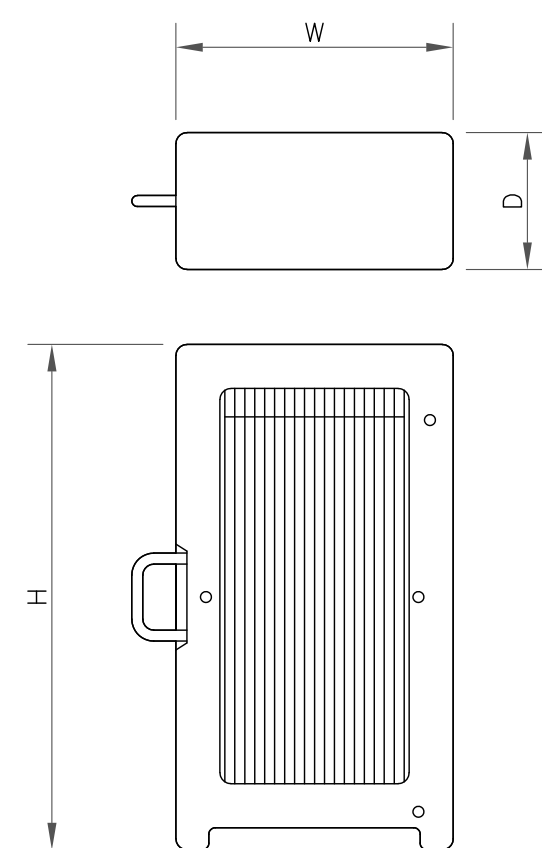
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**C-5**

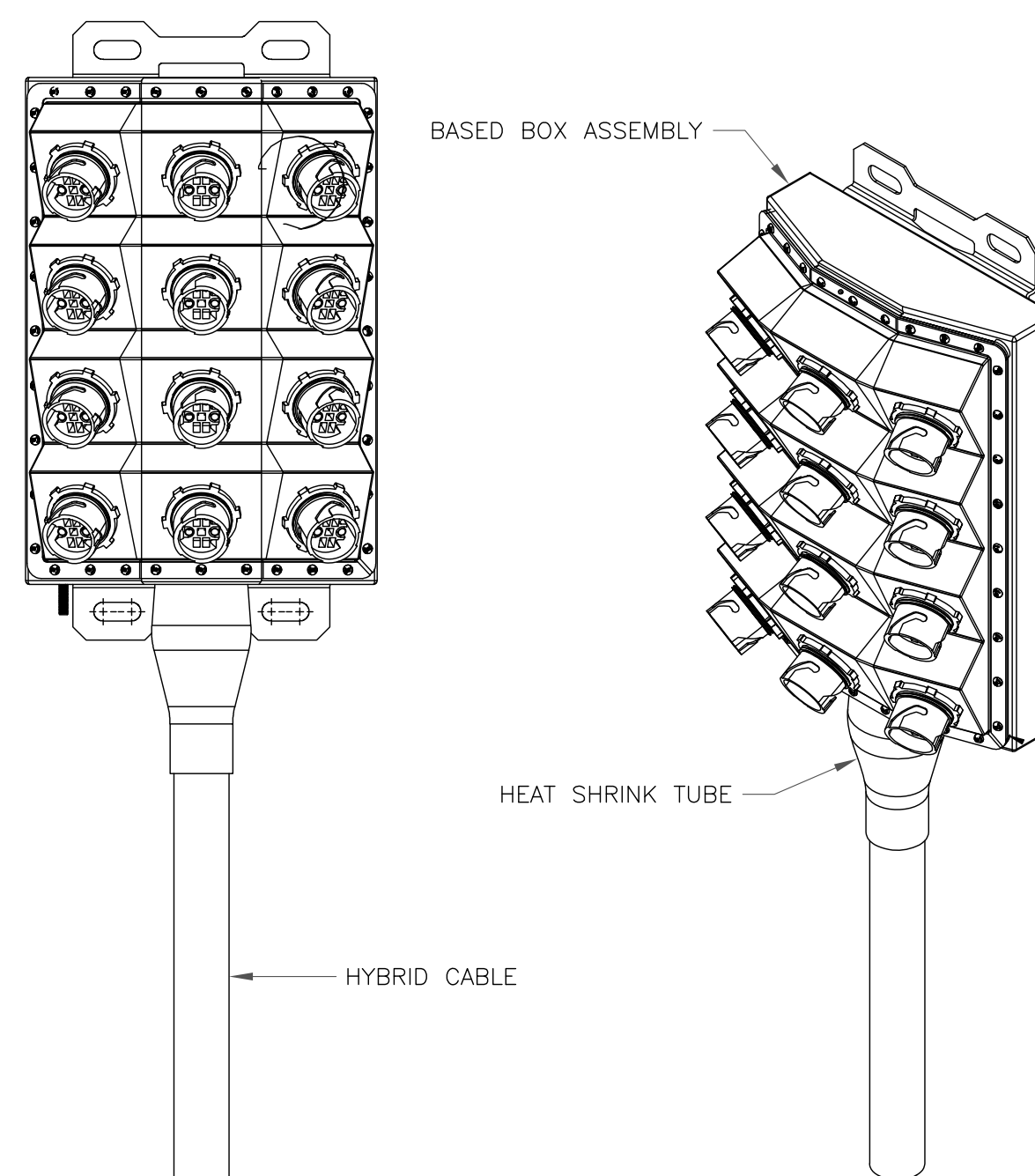
REVISION:

**0**



| RRU SPECIFICATIONS |            |
|--------------------|------------|
| MANUFACTURER       | SAMSUNG    |
| MODEL #            | RFV01U-D2A |
| WIDTH              | 15.00"     |
| DEPTH              | 8.10"      |
| HEIGHT             | 15.00"     |
| WEIGHT             | 70.30 LBS  |

4 RRU SPECS  
SCALE: NOT TO SCALE



RAYCAP -- RVZDC-6627-PF-48\_CCIV2  
WEIGHT (WITHOUT MOUNTING HARDWARE): 32.00 LBS.  
SIZE (HxWxD): 29.50x16.50x12.60 IN.

5 RAYCAP JUNCTION BOX  
SCALE: NOT TO SCALE

6 NOT USED  
SCALE: NOT TO SCALE

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|     |         |      |              |         |
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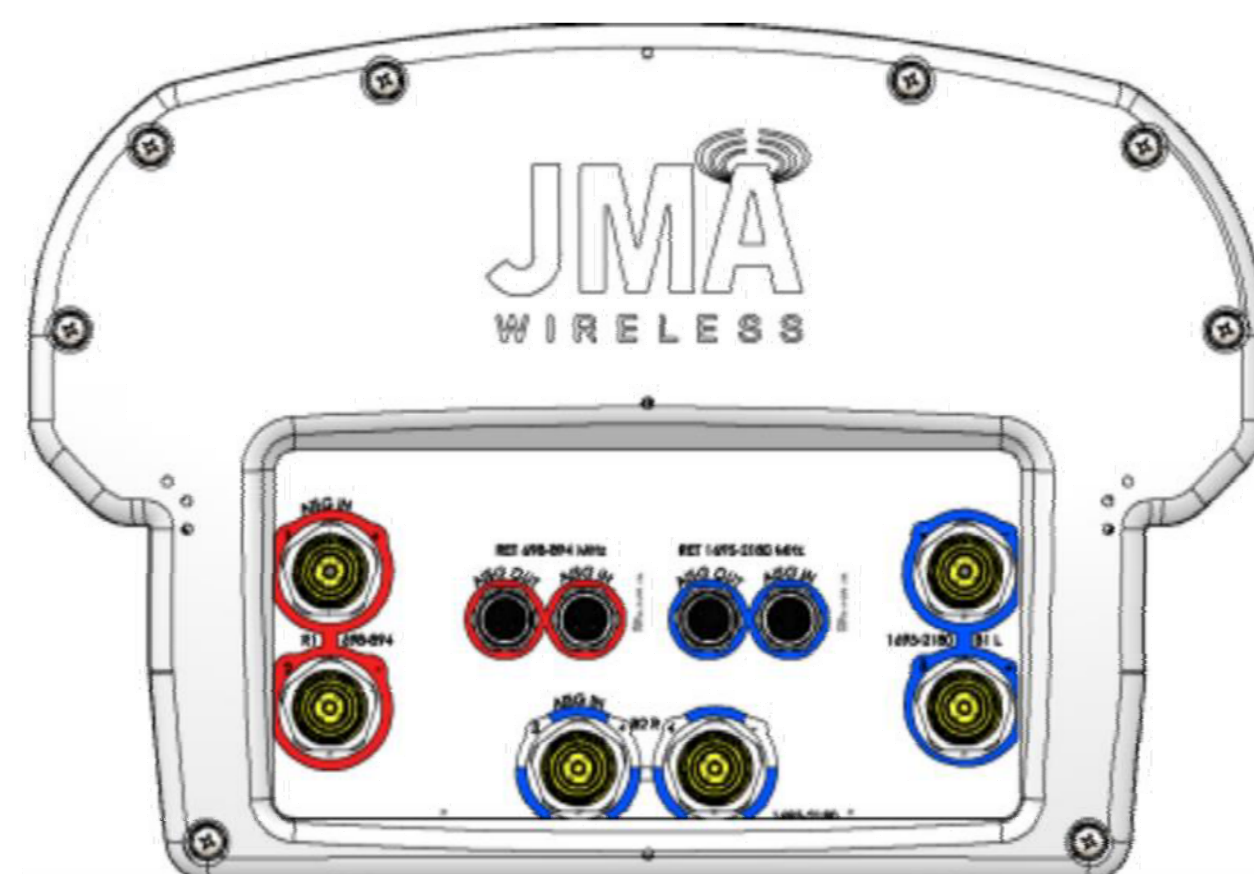
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SHEET NUMBER:

C-6

REVISION:

0



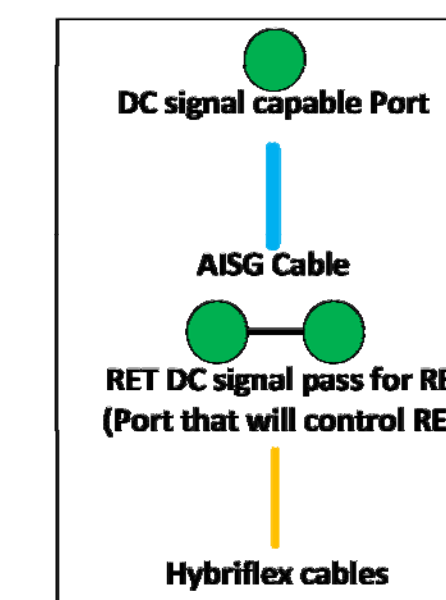
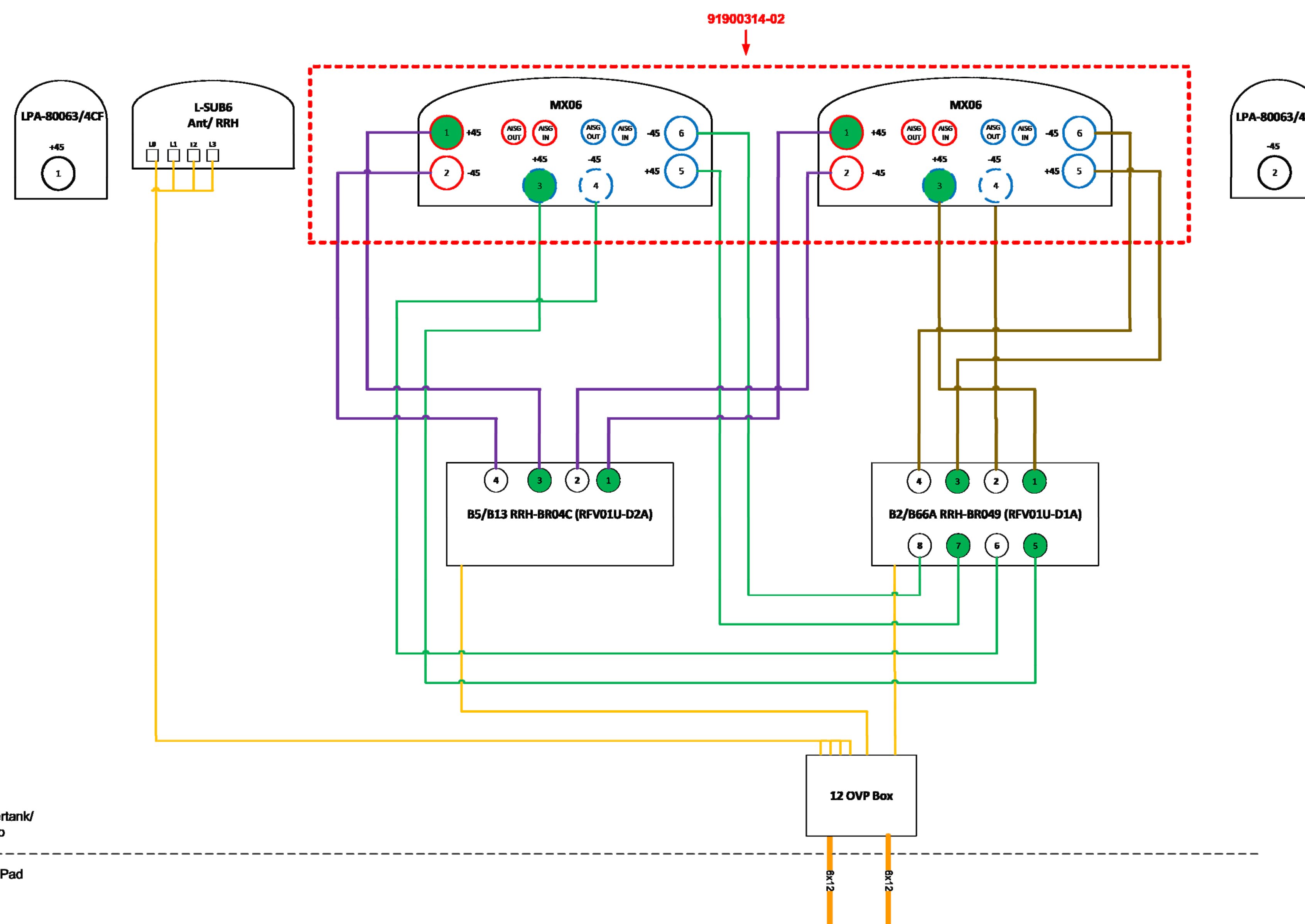
• Port 1 & 2 are for low band (698-896 MHz).

• 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.

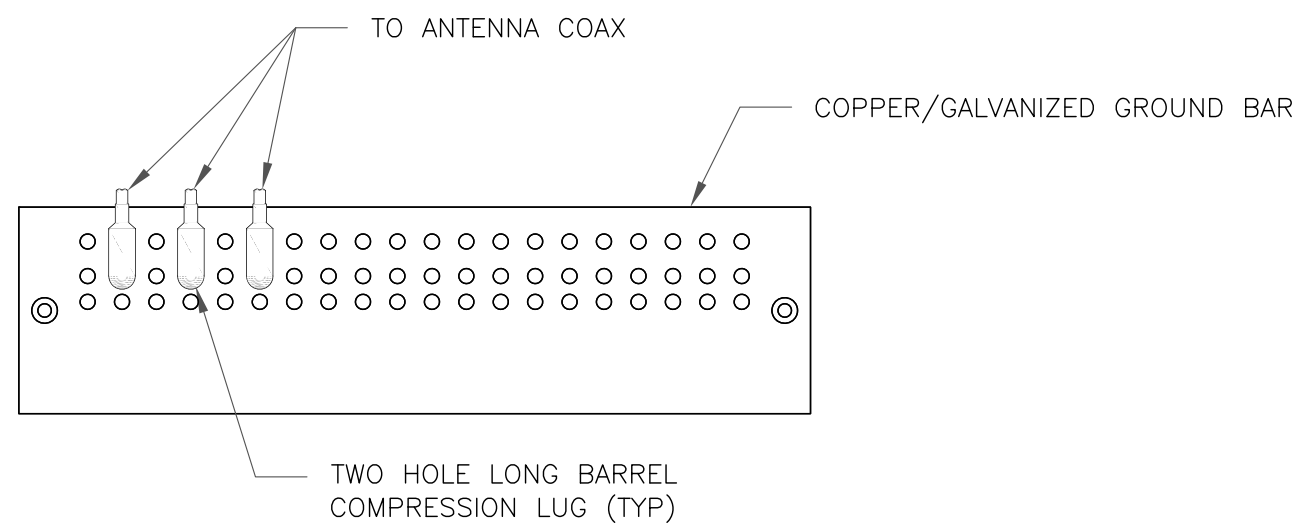
Antenna positions are indicated as viewed from IN FRONT of antennas.

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

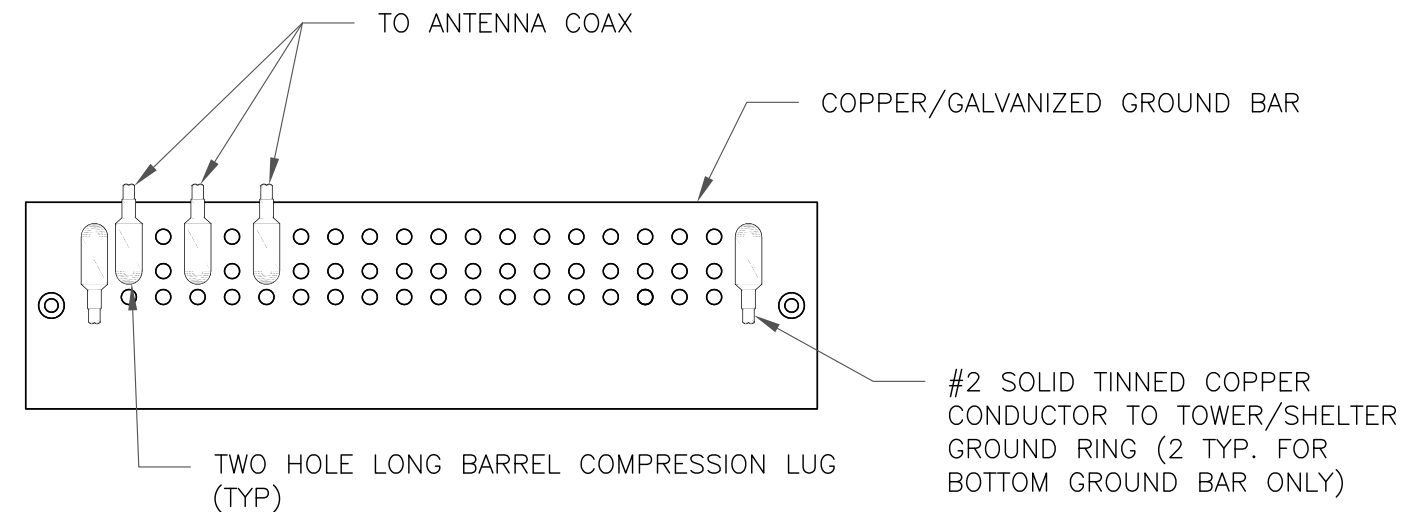




NOTES:

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.

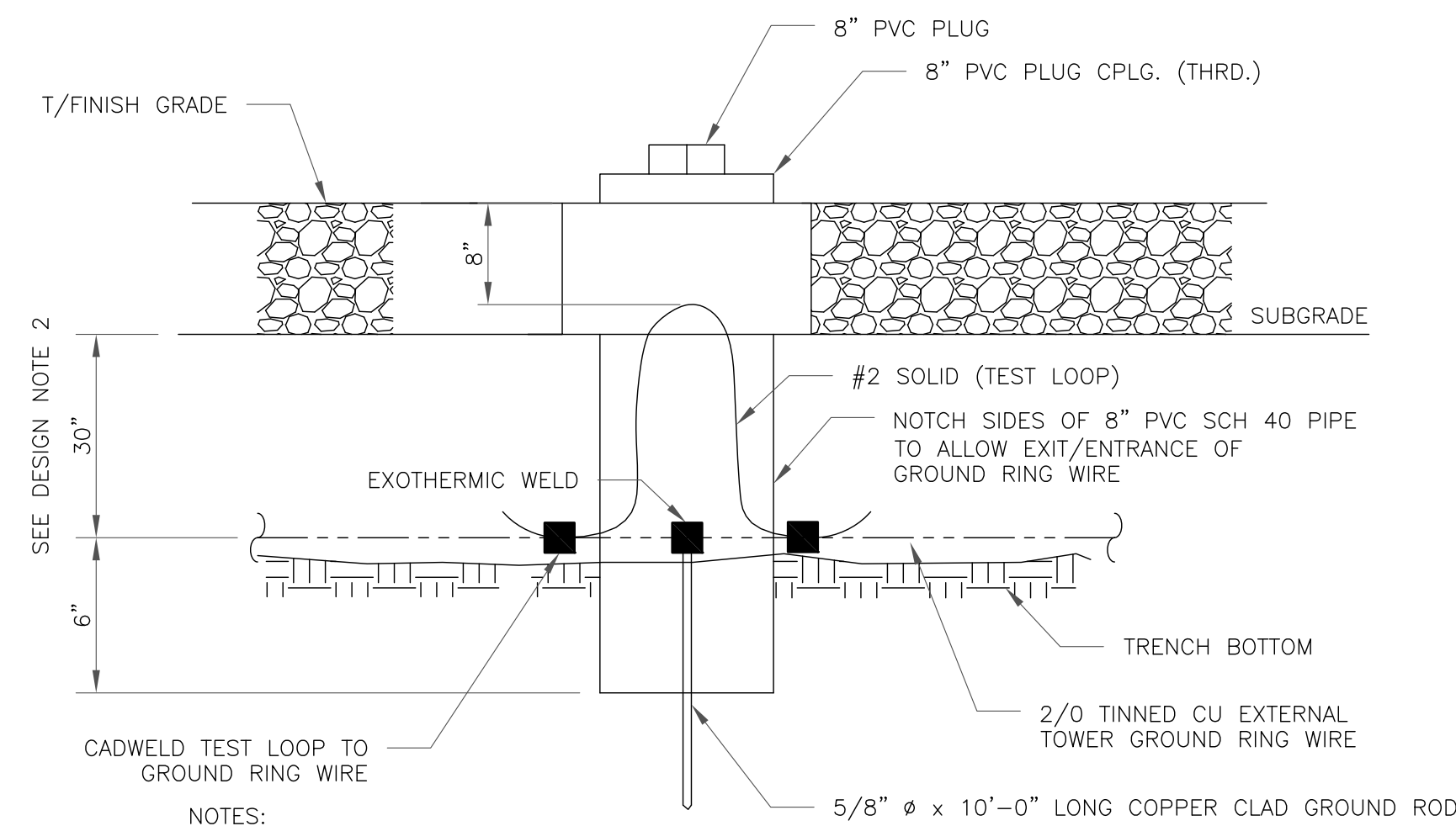
1 ANTENNA SECTOR GROUND BAR DETAIL  
SCALE: NOT TO SCALE



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.

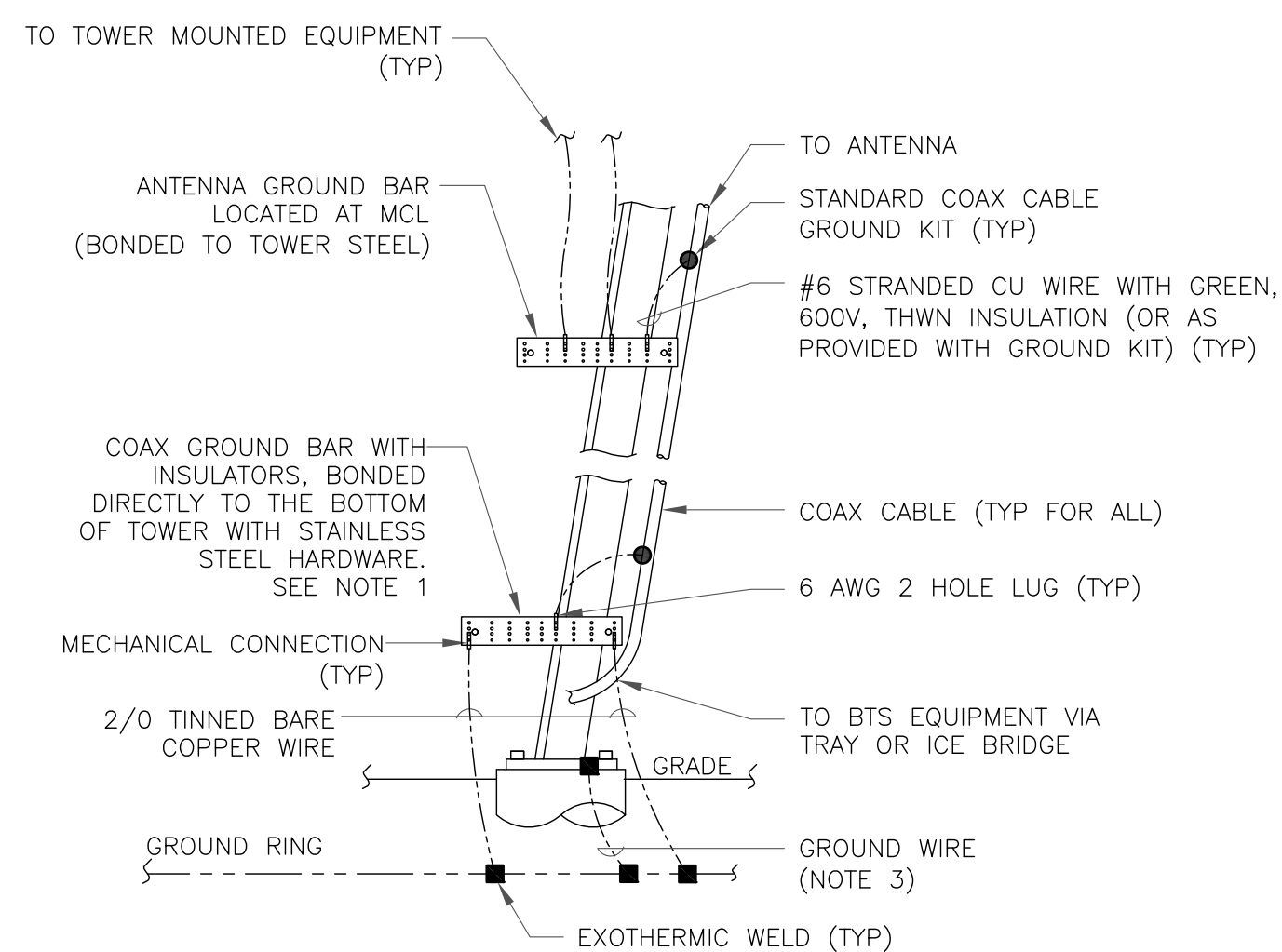
2 TOWER/SHELTER GROUND BAR DETAIL  
SCALE: NOT TO SCALE



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).

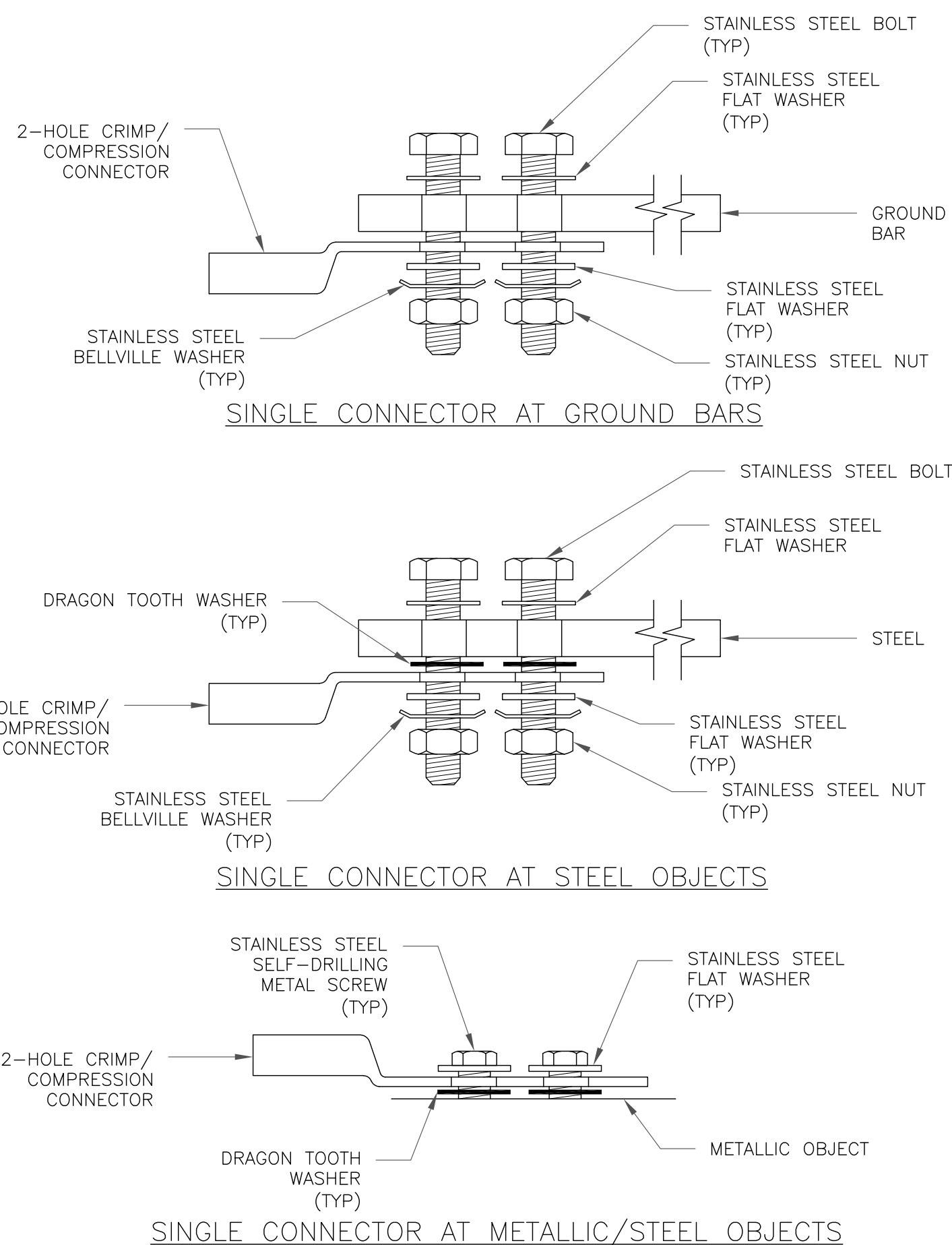
3 INSPECTION WELL DETAIL  
SCALE: NOT TO SCALE



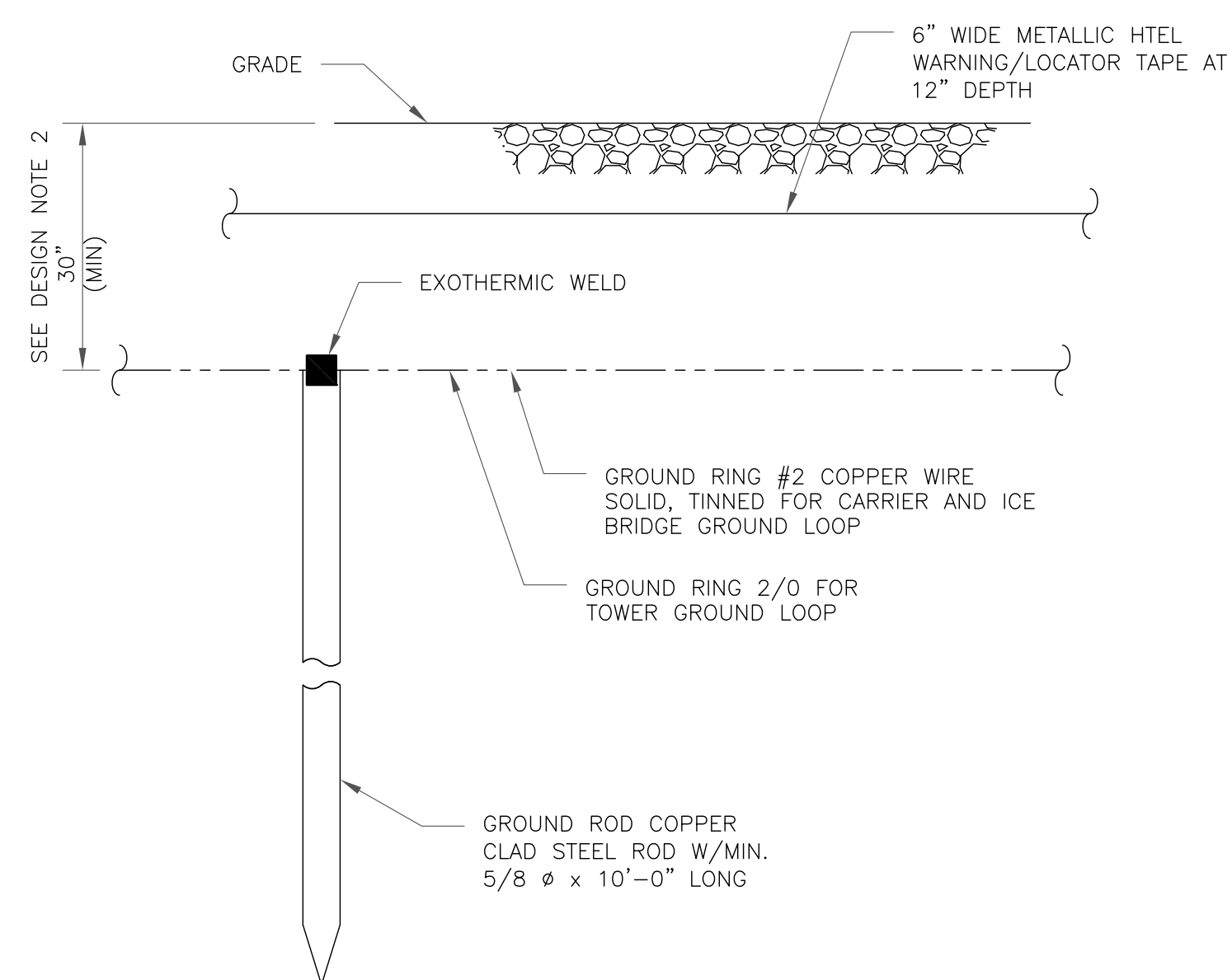
NOTES:

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



5 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS  
SCALE: NOT TO SCALE



NOTES:

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

6 GROUND ROD DETAIL  
SCALE: NOT TO SCALE

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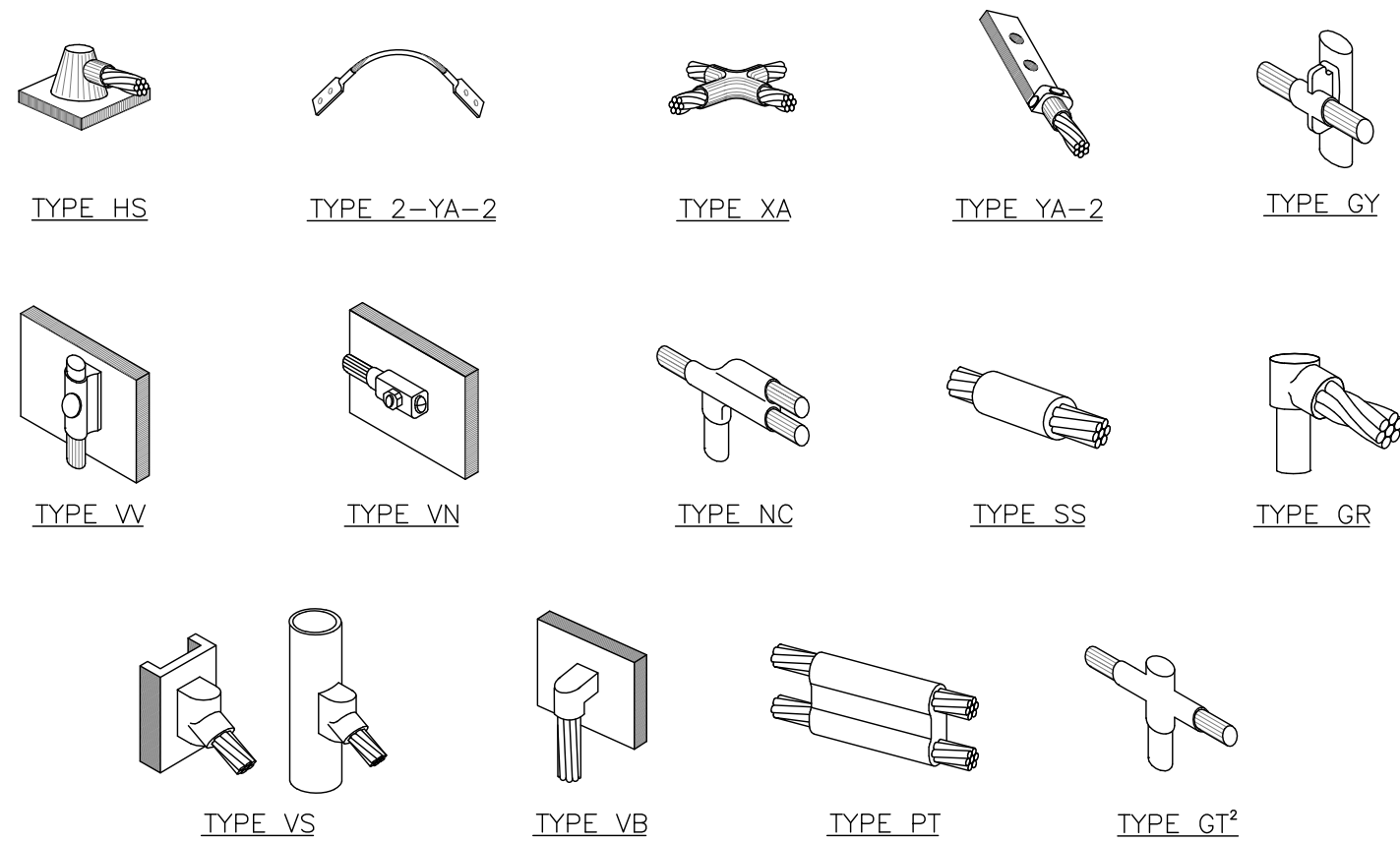


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SHEET NUMBER: **G-1** REVISION: **0**

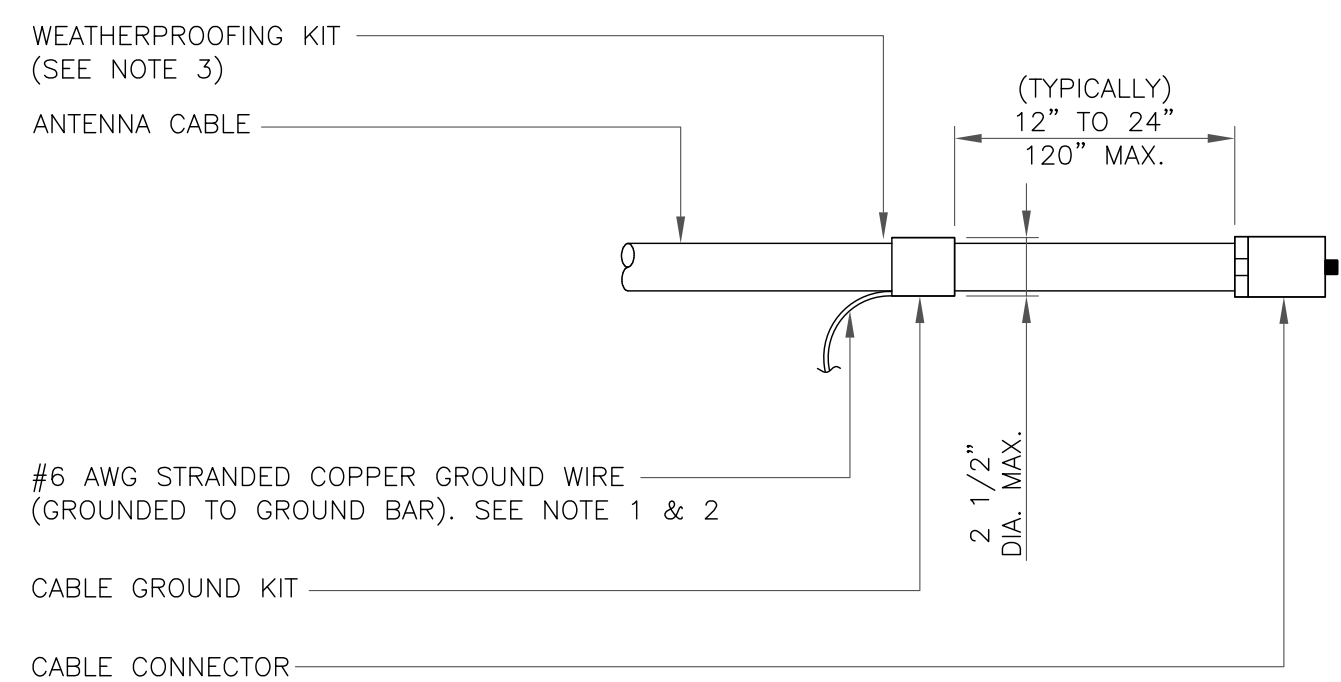




**NOTE:**

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.

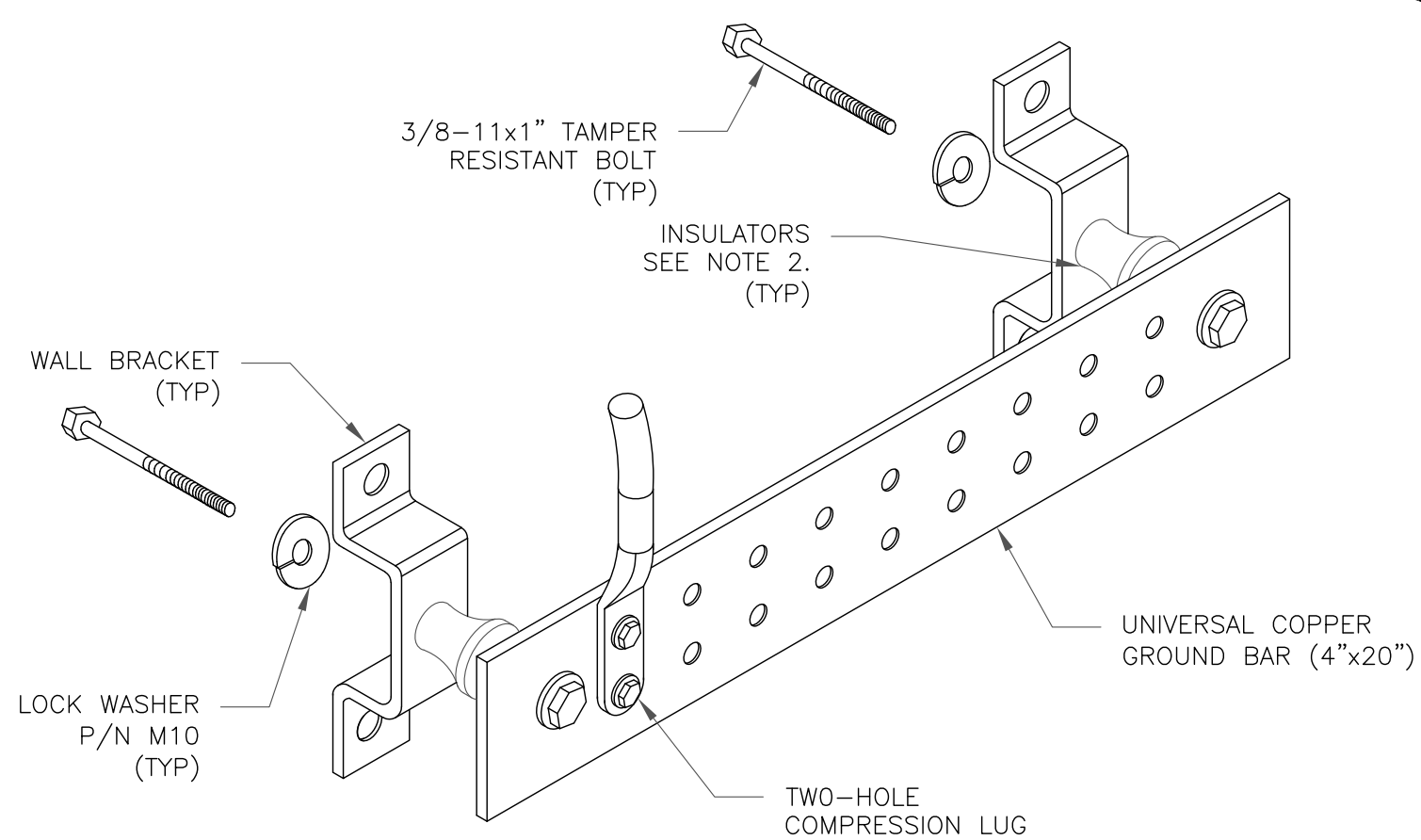
**1 CADWELD GROUNDING CONNECTIONS**  
SCALE: NOT TO SCALE



**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.

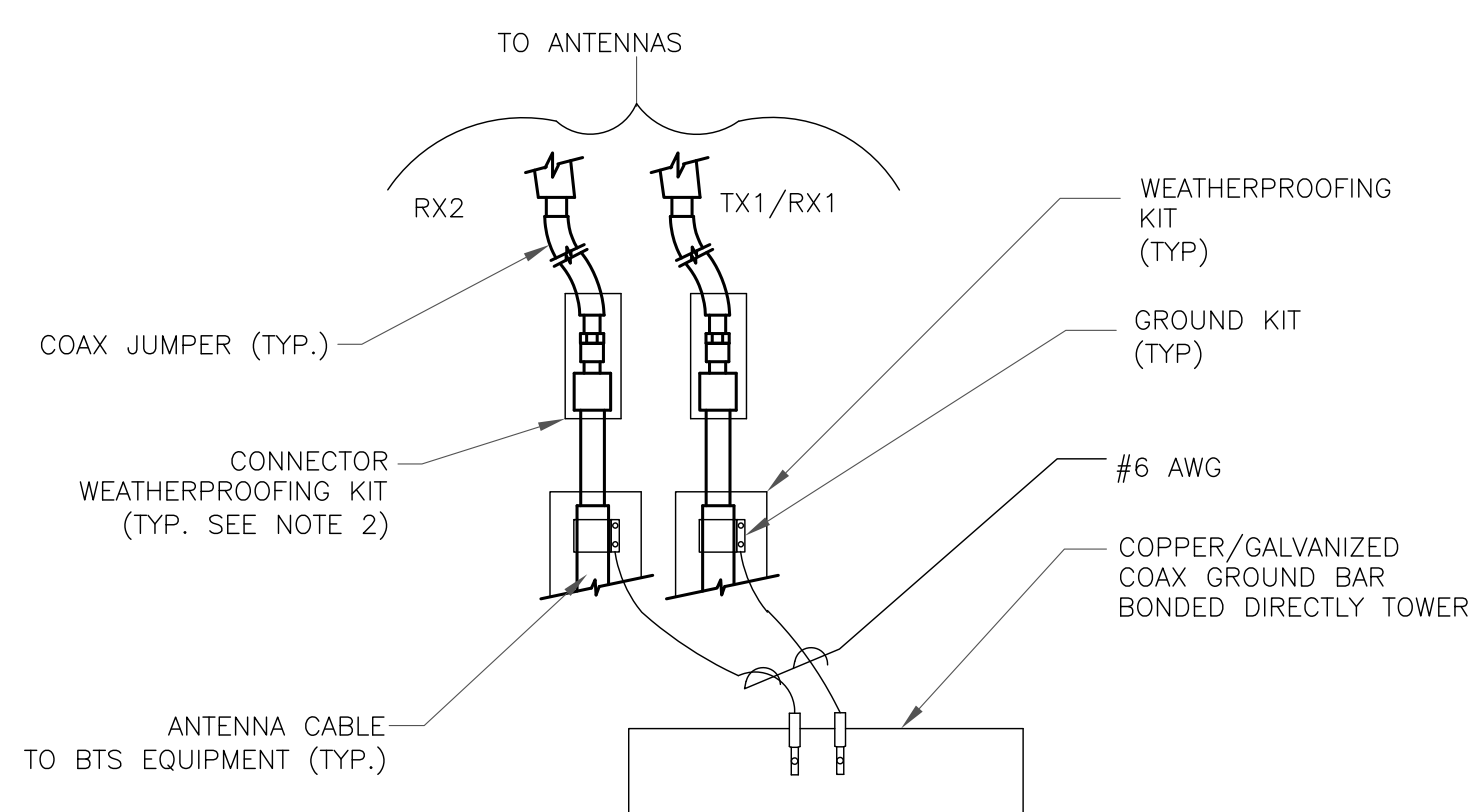
**3 CABLE GROUND KIT CONNECTION**  
SCALE: NOT TO SCALE



**NOTES:**

1. 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.

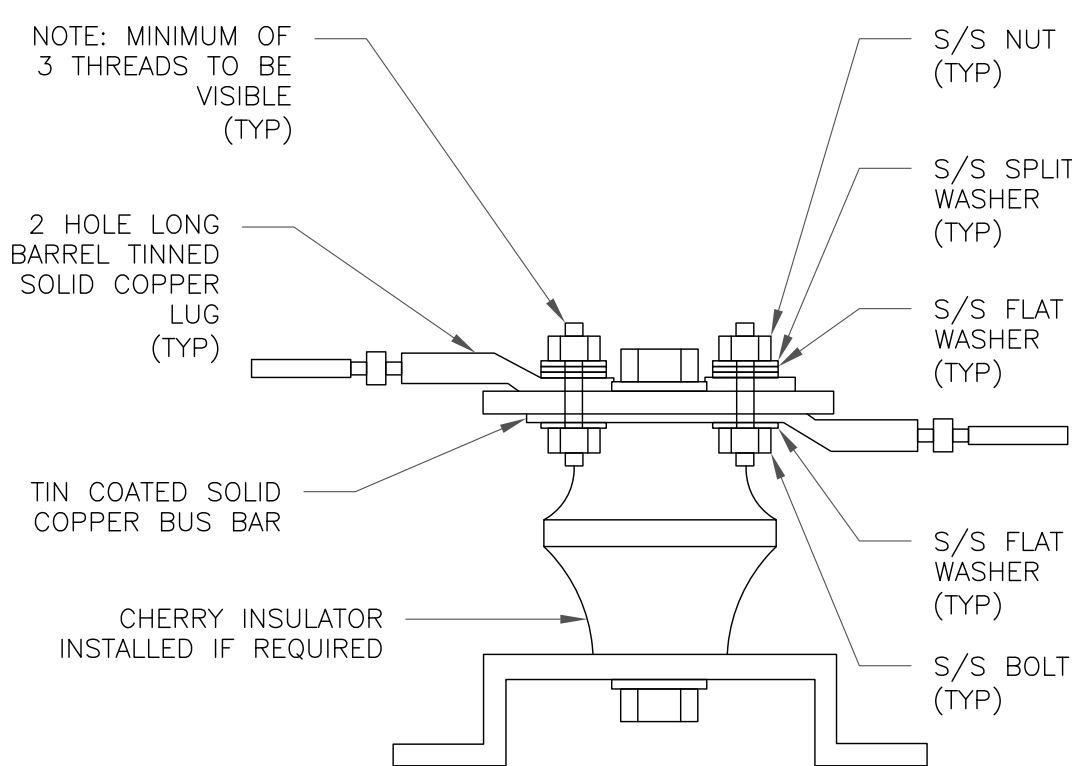
**6 GROUND BAR DETAIL**  
SCALE: NOT TO SCALE



**NOTES:**

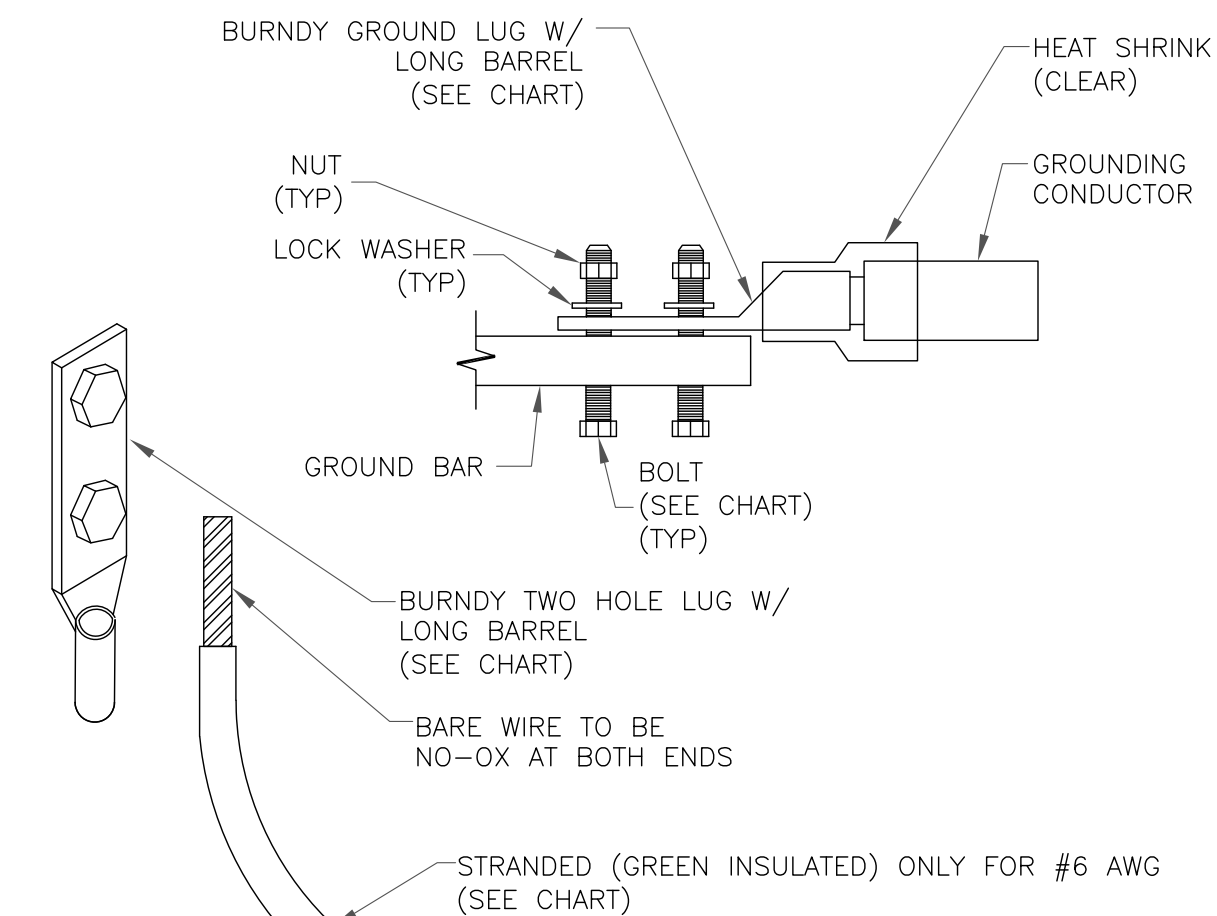
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.

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



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

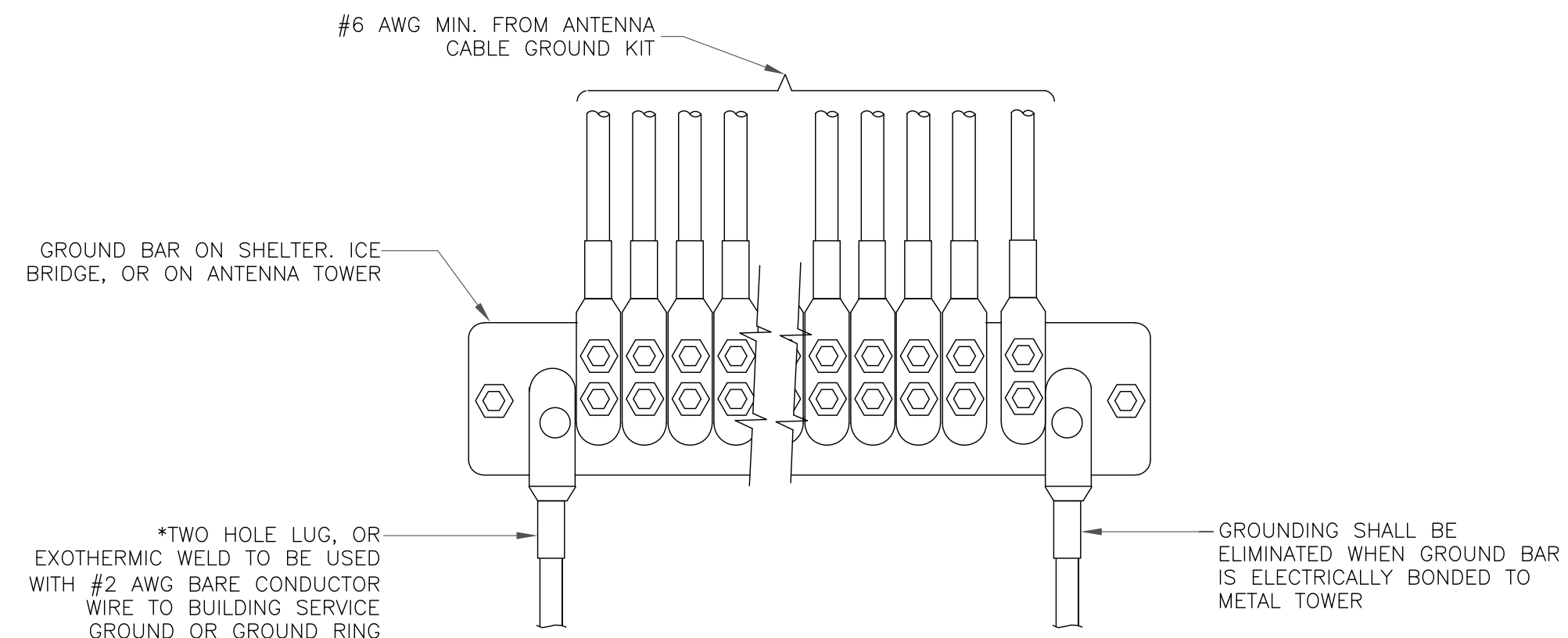
| WIRE SIZE              | BURNDY LUG | BOLT SIZE             |
|------------------------|------------|-----------------------|
| #6 AWG GREEN INSULATED | YA6C-2TC38 | 3/8" - 16 NC S 2 BOLT |
| #2 AWG SOLID TINNED    | YA3C-2TC38 | 3/8" - 16 NC S 2 BOLT |
| #2 AWG STRANDED        | YA2C-2TC38 | 3/8"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



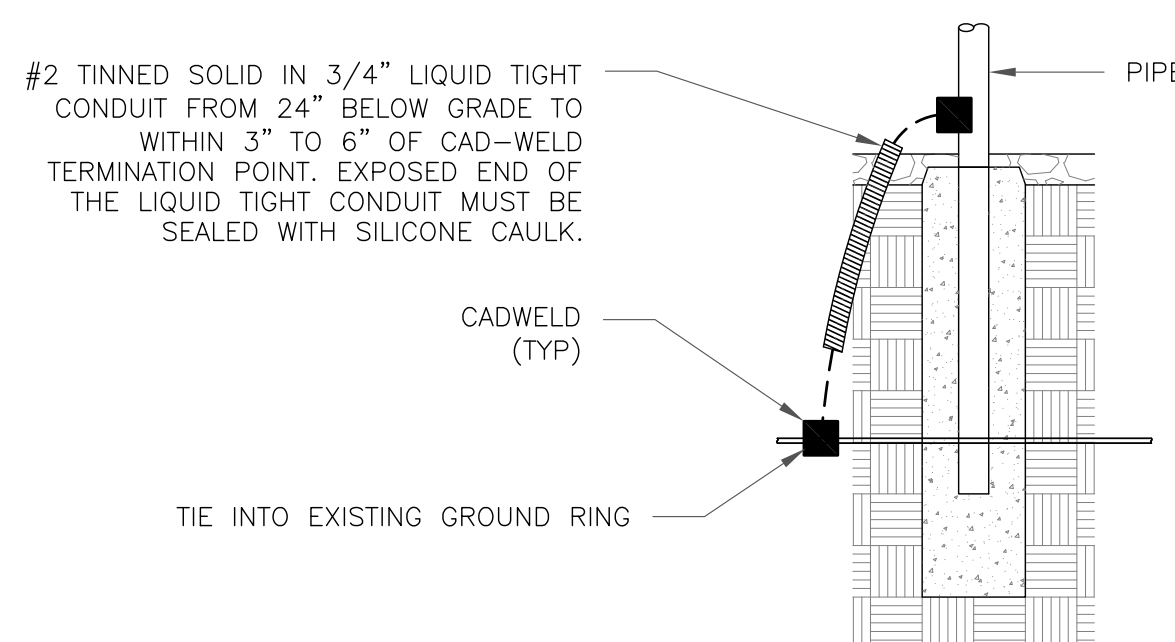
**NOTES:**

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

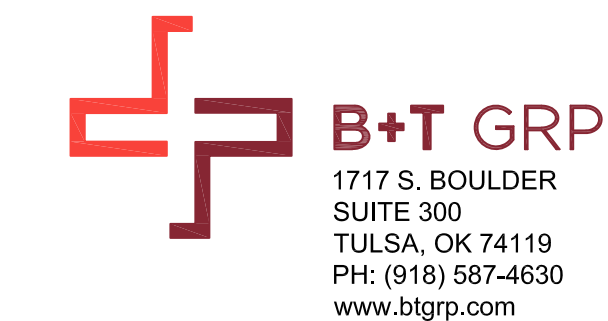
**2 MECHANICAL LUG CONNECTION**  
SCALE: NOT TO SCALE



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



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



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Expires 2/10/22

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SHEET NUMBER:

**G-2**

REVISION:

**0**



# Exhibit D

## **Structural Analysis Report**



Date: **May 22, 2021**

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

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

**Carrier Designation:** **Verizon Wireless Co-Locate**  
**Site Number:** 469110  
**Site Name:** Milford Center CT

**Crown Castle Designation:** **BU Number:** 842870  
**Site Name:** MILFORD  
**JDE Job Number:** 667192  
**Work Order Number:** 1962122  
**Order Number:** 568291 Rev. 0

**Engineering Firm Designation:** **B+T Group Project Number:** 91292.019.01

**Site Data:** **434 Boston Post Road, Milford, New Haven County, CT**  
**Latitude 41° 13' 42.69", Longitude -73° 4' 12.47"**  
**150 Foot - Self Support Tower**

B+T Group is pleased to submit this “**Structural Analysis Report**” to determine the structural integrity of the above-mentioned tower.

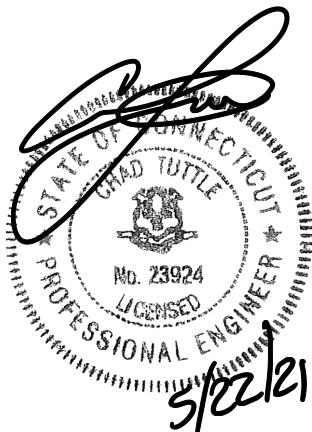
The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC5: Proposed Equipment Configuration **Sufficient Capacity - 99.5%**

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.

Structural analysis prepared by: Jacob Johnson, E.I.T.

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



Chad E. Tuttle, P.E.

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## 1) INTRODUCTION

This is a 150 ft. self-support tower designed by PiRod Inc. in March 2000. This tower has been modified by GPD Group in 2012. Reinforcement consists of replacing the Diagonals Member between elevations from 80' to 100' and those modifications were incorporated in this analysis.

## 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) |
|---------------------|----------------------------|--------------------|----------------------|-------------------------|----------------------|---------------------|
| 88.0                | 90.0                       | 6                  | Antel                | LPA-80063/4CF           | 13                   | 1-5/8               |
|                     |                            | 6                  | JMA Wireless         | MX06FRO660-03           |                      |                     |
|                     |                            | 1                  | Raycap               | RVZDC-6627-PF-48_CCIV2  |                      |                     |
|                     |                            | 3                  | Samsung Tel.         | MT6407-77A              |                      |                     |
|                     |                            | 3                  | Samsung Tel.         | RFV01U-D1A              |                      |                     |
|                     |                            | 3                  | Samsung Tel.         | RFV01U-D2A              |                      |                     |
|                     | 88.0                       | 3                  | JMA                  | 91900314-02             |                      |                     |
|                     |                            | 1                  | --                   | Pipe Mount [PM 601-3]   |                      |                     |
|                     |                            | 1                  | --                   | Sector Mount [SM 408-3] |                      |                     |

**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)        |                 |
|---------------------|----------------------------|--------------------|----------------------|---------------------------|----------------------|----------------------------|-----------------|
| 150.0               | 160.0                      | 2                  | Sinclair             | SC226-SFXSNM              | 6<br>1               | 5/8<br>3/8                 |                 |
|                     | 151.0                      | 2                  | Radio Waves          | HPLPD1-18                 |                      |                            |                 |
|                     | 150.0                      | 1                  | --                   | Platform Mount [LP 405-1] |                      |                            |                 |
| 144.0               | 144.0                      | 3                  | Ericsson             | RRUS 11 B2                | --                   | --                         |                 |
|                     |                            | 3                  | Ericsson             | RRUS 32 B30               |                      |                            |                 |
|                     |                            | 2                  | Raycap               | DC6-48-60-18-8F           |                      |                            |                 |
| 141.0               | 144.0                      | 3                  | Ericsson             | RRUS 32 B30               | 12<br>2<br>4<br>3    | 1-5/8<br>7/8<br>5/8<br>3/8 |                 |
|                     |                            | 3                  | Ericsson             | RRUS 4478 B14             |                      |                            |                 |
|                     |                            | 3                  | Ericsson             | RRUS 4478 B5              |                      |                            |                 |
|                     |                            | 1                  | Raycap               | DC6-48-60-18-8F           |                      |                            |                 |
|                     | 141.0                      | 141.0              | 3                    | Andrew                    |                      |                            | SBNHH-1D65A     |
|                     |                            |                    | 3                    | CCI Antennas              |                      |                            | OPA-65R-LCUU-H4 |
|                     |                            |                    | 1                    | Commscope                 |                      |                            | WCS-IMFQ-AMT    |
|                     |                            |                    | 3                    | Ericsson                  |                      |                            | RRUS 4426 B66   |
|                     |                            |                    | 6                    | Kaelus                    |                      |                            | DBCT108F1V92-1  |

| Mounting Level (ft) | Center Line Elevation (ft) | Number of Antennas | Antenna Manufacturer | Antenna Model                | Number of Feed Lines | Feed Line Size (in) |                         |
|---------------------|----------------------------|--------------------|----------------------|------------------------------|----------------------|---------------------|-------------------------|
| 141.0               | 141.0                      | 3                  | Kathrein             | 80010964                     | --                   | --                  |                         |
|                     |                            | 3                  | Powerwave Tech.      | 7020.00                      |                      |                     |                         |
|                     |                            | 3                  | Powerwave Tech.      | 7770.00                      |                      |                     |                         |
|                     |                            | 6                  | Powerwave Tech.      | LGP21401                     |                      |                     |                         |
|                     |                            | 1                  | --                   | Sector Mount [SM 503-3]      |                      |                     |                         |
| 130.0               | 130.0                      | 2                  | Terrawave            | M5160160P10006               | 2                    | 7/8                 |                         |
|                     |                            | 2                  | --                   | Side Arm Mount [SO 301-1]    |                      |                     |                         |
| 118.0               | 128.0                      | 1                  | Sinclair             | SC229-SFXLDF                 | 2                    | 7/8                 |                         |
|                     |                            | 1                  | Sinclair             | SC320                        |                      |                     |                         |
|                     | 118.0                      | 2                  | --                   | Side Arm Mount [SO 306-1]    |                      |                     |                         |
| 114.0               | 114.0                      | 3                  | Ericsson             | AIR6449 B41                  | 9<br>2               | 1-5/8<br>1-3/8      |                         |
|                     |                            | 3                  | Ericsson             | RADIO 4449 B71 B85A_T-MOBILE |                      |                     |                         |
|                     |                            | 3                  | Ericsson             | RRUS 4415 B25_CCIV2          |                      |                     |                         |
|                     |                            | 1                  | --                   | Sector Mount [SM 307-3]      |                      |                     |                         |
|                     | 112.0                      | 112.0              | 3                    | Ericsson                     |                      |                     | AIR 32 B2A/B66AA        |
|                     |                            |                    | 3                    | Ericsson                     |                      |                     | ERICSSON AIR 21 B2A B4P |
|                     |                            |                    | 3                    | Ericsson                     |                      |                     | KRY 112 71              |
|                     |                            |                    | 3                    | RFS Celwave                  |                      |                     | APXVAARR24_43-U-NA20    |
| 103.0               | 103.0                      | 1                  | --                   | Pipe Mount [PM 601-3]        | --                   | --                  |                         |
|                     | 100.0                      | 3                  | Alcatel Lucent       | 800MHZ 2X50W RRH W/FILTER    |                      |                     |                         |
|                     |                            | 3                  | Alcatel Lucent       | PCS 1900MHZ 2X40W            |                      |                     |                         |
| 100.0               | 100.0                      | 3                  | Alcatel Lucent       | TD-RRH8X20-25                | 3<br>1               | 1-1/4<br>7/8        |                         |
|                     |                            | 3                  | Commscope            | DT465B-2XR                   |                      |                     |                         |
|                     |                            | 3                  | RFS Celwave          | APXVSP18-C-A20               |                      |                     |                         |
|                     |                            | 1                  | --                   | Sector Mount [SM 406-3]      |                      |                     |                         |
|                     | 97.0                       | 3                  | Alcatel Lucent       | RRH2X50-800                  |                      |                     |                         |
| 65.0                | 65.0                       | 3                  | RFS Celwave          | APXV18-206517S-C             | 6                    | 1-5/8               |                         |
| 50.0                | 50.0                       | 1                  | Pctel                | GPS-TMG-HR-26NCM             | 1                    | 1/2                 |                         |

### 3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

| Document                        | Reference        | Source    |
|---------------------------------|------------------|-----------|
| Tower Manufacturer Drawing      | 4480661          | CCI Sites |
| Tower Modification Drawing      | 4713244          | CCI Sites |
| Post Modification Inspection    | 4713239          | CCI Sites |
| Foundation Drawing              | 4480652          | CCI Sites |
| Geotech Report                  | 5359323          | CCI Sites |
| Exposure Category Determination | 5974782          | CCI Sites |
| Antenna Configuration           | Date: 04/28/2021 | CCI Sites |

### 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. B+T Group should be notified to determine the effect on the structural integrity of the tower.

## 4) ANALYSIS RESULTS

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

| Section No. | Elevation (ft) | Component Type | Size              | Critical Element | P (K)    | SF*P_allow (K) | % Capacity | Pass / Fail |
|-------------|----------------|----------------|-------------------|------------------|----------|----------------|------------|-------------|
| T1          | 150 - 147.583  | Leg            | 1 1/2             | 1                | -6.012   | 53.917         | 11.2       | Pass        |
| T2          | 147.583 - 130  | Leg            | 1 1/2             | 15               | -39.799  | 53.917         | 73.8       | Pass        |
| T3          | 130 - 110      | Leg            | 2                 | 72               | -92.422  | 117.290        | 78.8       | Pass        |
| T4          | 110 - 100      | Leg            | Pirod 105244      | 136              | -97.606  | 149.618        | 65.2       | Pass        |
| T5          | 100 - 80       | Leg            | Pirod 105216      | 148              | -148.908 | 149.618        | 99.5       | Pass        |
| T6          | 80 - 60        | Leg            | Pirod 105217      | 166              | -197.997 | 225.602        | 87.8       | Pass        |
| T7          | 60 - 40        | Leg            | Pirod 105218      | 184              | -240.288 | 315.715        | 76.1       | Pass        |
| T8          | 40 - 20        | Leg            | Pirod 105218      | 199              | -280.088 | 315.715        | 88.7       | Pass        |
| T9          | 20 - 0         | Leg            | Pirod 105219      | 214              | -316.634 | 419.861        | 75.4       | Pass        |
| T1          | 150 - 147.583  | Diagonal       | 3/4               | 11               | -2.897   | 5.577          | 52.0       | Pass        |
| T2          | 147.583 - 130  | Diagonal       | 3/4               | 26               | -4.696   | 5.123          | 91.7       | Pass        |
| T3          | 130 - 110      | Diagonal       | 7/8               | 83               | -6.138   | 8.211          | 74.8       | Pass        |
| T4          | 110 - 100      | Diagonal       | L2 1/2x2 1/2x3/16 | 142              | -11.206  | 18.455         | 60.7       | Pass        |
| T5          | 100 - 80       | Diagonal       | L2 1/2x2 1/2x3/8  | 156              | -10.377  | 27.043         | 38.4       | Pass        |
| T6          | 80 - 60        | Diagonal       | L3x3x3/16         | 174              | -8.848   | 20.182         | 43.8       | Pass        |
| T7          | 60 - 40        | Diagonal       | L3x3x3/16         | 190              | -8.642   | 16.112         | 53.6       | Pass        |
| T8          | 40 - 20        | Diagonal       | L3x3x5/16         | 205              | -9.282   | 20.744         | 44.7       | Pass        |
| T9          | 20 - 0         | Diagonal       | L3x3x5/16         | 220              | -11.218  | 17.119         | 65.5       | Pass        |
| T2          | 147.583 - 130  | Horizontal     | 7/8               | 28               | -0.746   | 5.216          | 14.3       | Pass        |
| T3          | 130 - 110      | Horizontal     | 3/4               | 85               | -1.671   | 2.305          | 72.5       | Pass        |
| T1          | 150 - 147.583  | Top Girt       | 5x1/2             | 6                | -1.919   | 10.158         | 18.9       | Pass        |
| T2          | 147.583 - 130  | Top Girt       | 7/8               | 17               | -0.748   | 6.213          | 12.0       | Pass        |
| T3          | 130 - 110      | Top Girt       | 7/8               | 74               | -1.846   | 5.122          | 36.0       | Pass        |
| T4          | 110 - 100      | Top Girt       | L3x3x3/16         | 138              | -1.693   | 28.645         | 5.9        | Pass        |
| T5          | 100 - 80       | Top Girt       | L3x3x3/16         | 150              | 6.953    | 30.113         | 23.1       | Pass        |
| T6          | 80 - 60        | Top Girt       | L3x3x3/16         | 167              | -5.640   | 18.645         | 30.3       | Pass        |
| T2          | 147.583 - 130  | Bottom Girt    | 7/8               | 19               | -1.860   | 5.073          | 36.7       | Pass        |
| T3          | 130 - 110      | Bottom Girt    | 7/8               | 76               | -2.189   | 4.166          | 52.5       | Pass        |

| Section No. | Elevation (ft) | Component Type | Size | Critical Element | P (K) | SF*P_allow (K)   | % Capacity | Pass / Fail |
|-------------|----------------|----------------|------|------------------|-------|------------------|------------|-------------|
|             |                |                |      |                  |       |                  | Summary    |             |
|             |                |                |      |                  |       | Leg (T5)         | 99.5       | Pass        |
|             |                |                |      |                  |       | Diagonal (T2)    | 91.7       | Pass        |
|             |                |                |      |                  |       | Horizontal (T3)  | 72.5       | Pass        |
|             |                |                |      |                  |       | Top Girt (T3)    | 36.0       | Pass        |
|             |                |                |      |                  |       | Bottom Girt (T3) | 52.5       | Pass        |
|             |                |                |      |                  |       | Bolt Checks      | 86.3       | Pass        |
|             |                |                |      |                  |       | Rating =         | 99.5       | Pass        |

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

| Notes | Component                          | Elevation (ft) | % Capacity | Pass / Fail |
|-------|------------------------------------|----------------|------------|-------------|
| 1,2   | Anchor Rods                        | Base           | 50.3       | Pass        |
| 1,2   | Base Foundation (Structure)        | Base           | 16.6       | Pass        |
| 1,2   | Base Foundation (Soil Interaction) | Base           | 45.4       | Pass        |

|   |              |
|---|--------------|
| <b>Structure Rating (max from all components) =</b> | <b>99.5%</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 foundations 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    | L2 1/2x2 1/2x3/16 | C    | N.A. |
| B    | 5x1/2             |      |      |

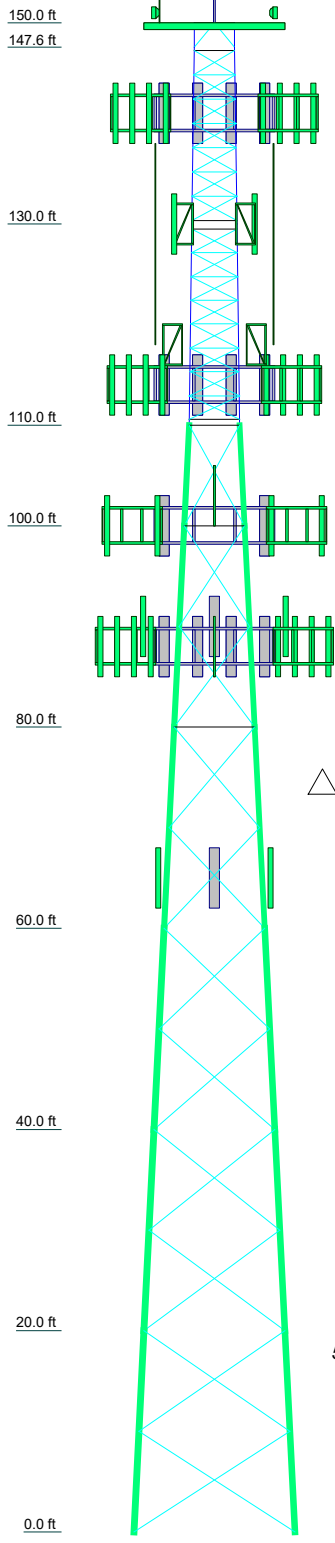
**MATERIAL STRENGTH**

| 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'
8. TIA-222-H Annex S
9. TOWER RATING: 99.5%

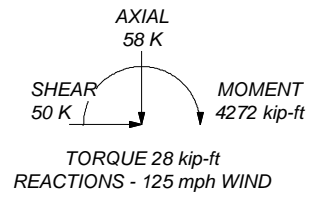
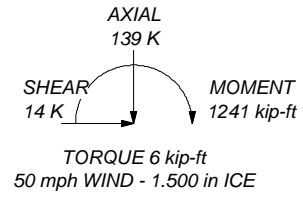
| Section         | T1          | T2 | T3          | T4           | T5               | T6           | T7           | T8           | T9  |
|-----------------|-------------|----|-------------|--------------|------------------|--------------|--------------|--------------|-----|
| Legs            | SR 1 1/2    |    | SR 2        | Pirod 105244 | Pirod 105216     | Pirod 105217 | Pirod 105218 | Pirod 105219 |     |
| Leg Grade       | SR 3/4      |    |             |              |                  |              |              |              |     |
| Diagonals       |             |    |             | A            | L2 1/2x2 1/2x3/8 | L3x3x3/16    | L3x3x3/16    | L3x3x5/16    |     |
| Diagonal Grade  | A572-50     |    |             |              |                  | A36          |              |              |     |
| Top Girts       | SR 7/8      |    |             |              | L3x3x3/16        |              |              |              |     |
| Bottom Girts    | SR 7/8      |    |             |              |                  | N.A.         |              |              |     |
| Horizontals     | C           |    |             |              |                  | N.A.         |              |              |     |
| Face Width (ft) | 4           |    | 5           | 6            | 8                | 10           | 12           | 14           |     |
| # Panels @ (ft) | 8 @ 2.41667 |    | 8 @ 2.36458 |              |                  | 11 @ 10      |              |              |     |
| Weight (K)      | 0.7         |    | 1.3         | 1.1          | 2.5              | 2.6          | 3.0          | 3.5          | 4.2 |



ALL REACTIONS ARE FACTORED

MAX. CORNER REACTIONS AT BASE:  
 DOWN: 328 K  
 SHEAR: 33 K

UPLIFT: -288 K  
 SHEAR: 30 K

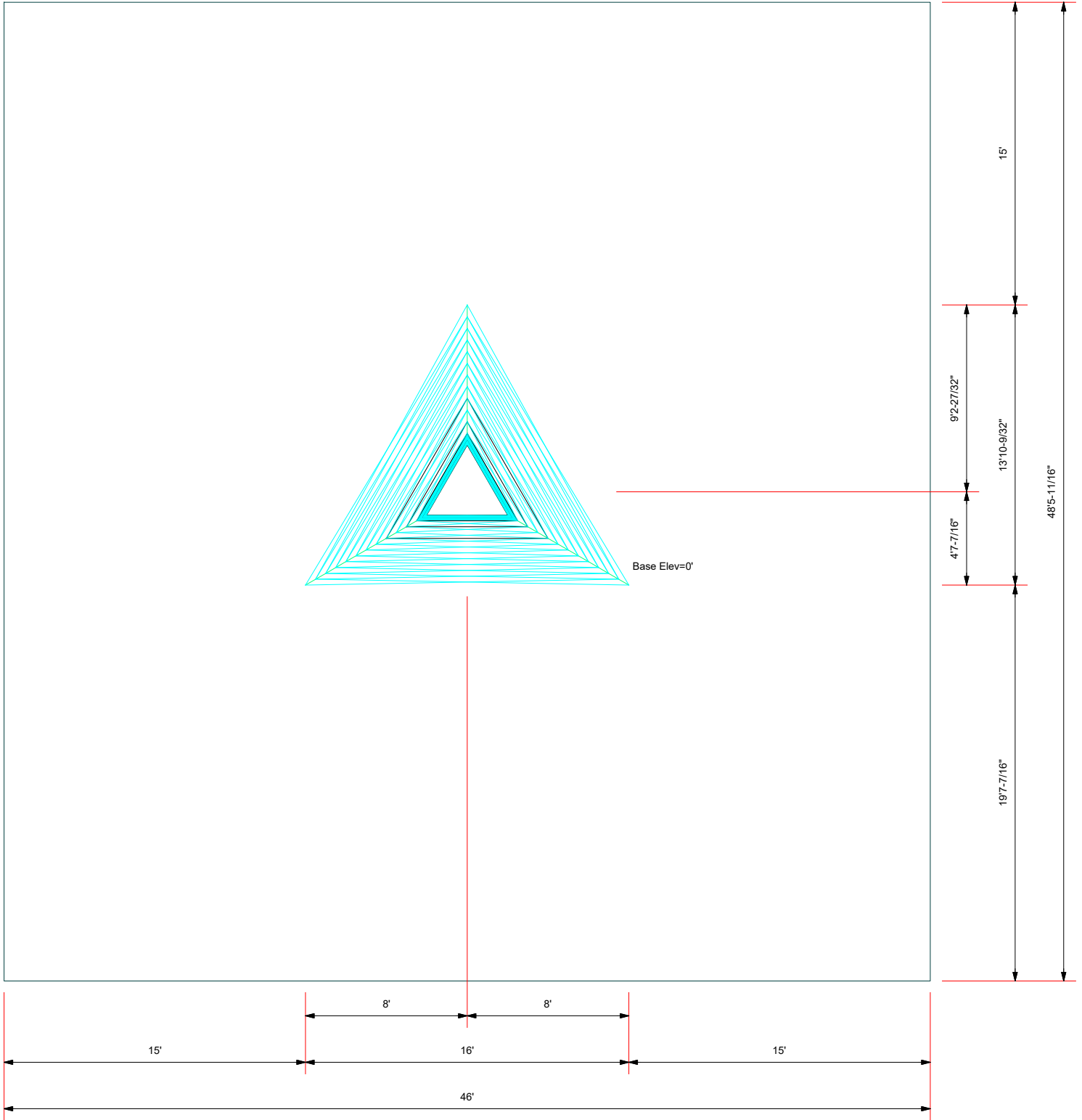


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|  |                   |            |
|--|-------------------|------------|
| Job: 91292.019.01 - MILFORD, CT (BU# 842870) |                   |            |
| Project:                                     |                   |            |
| Client: Crown Castle                         | Drawn by: Nithesh | App'd:     |
| Code: TIA-222-H                              | Date: 05/14/21    | Scale: NTS |
| Path:  | Dwg No. E-1       |            |

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**Plot Plan**  
**Total Area - 0.05 Acres**



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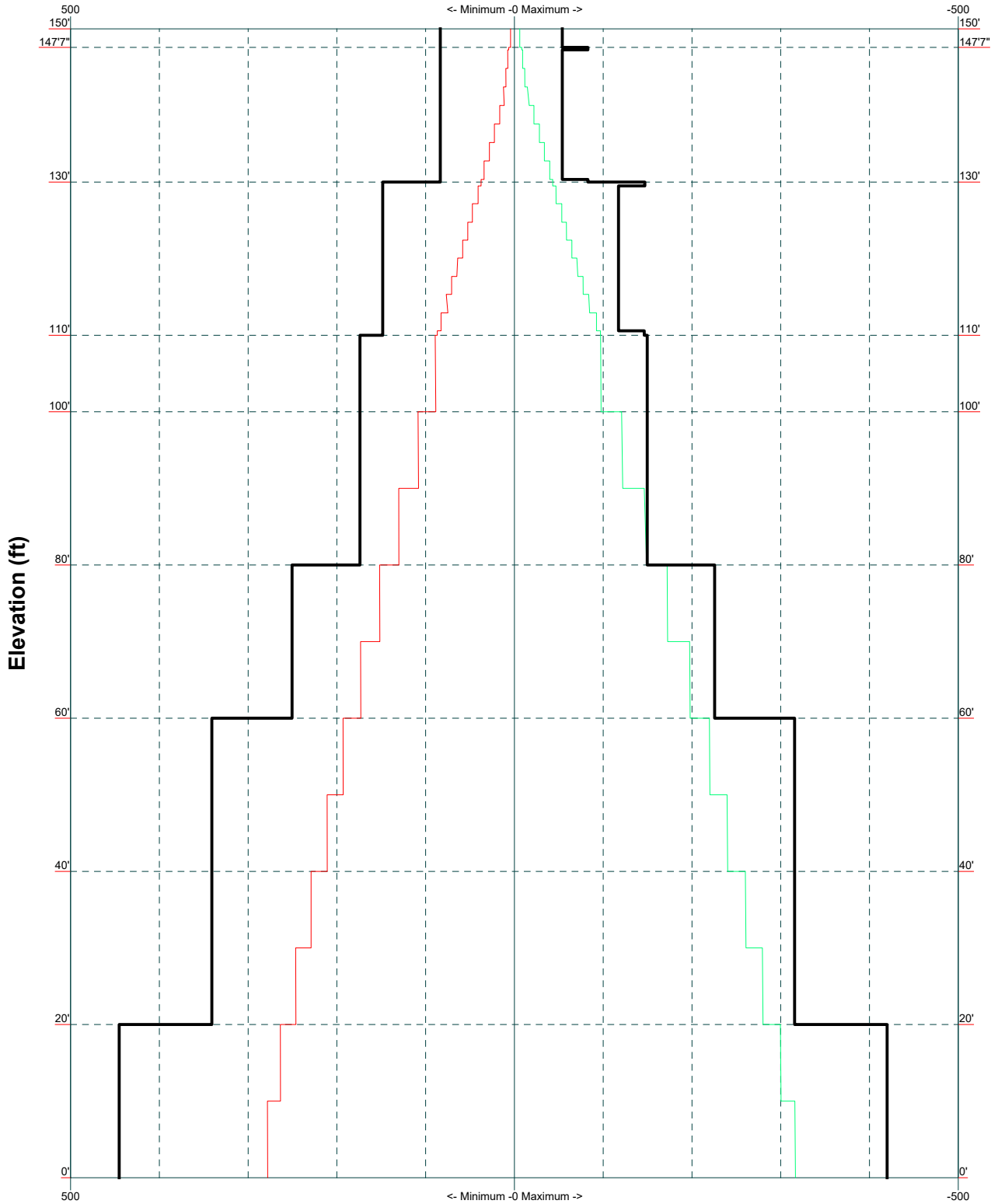
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|---|-------------------|------------|
| Job: <b>91292.019.01 - MILFORD, CT (BU# 842870)</b> |                   |            |
| Project:  |                   |            |
| Client: Crown Castle                                | Drawn by: Nithesh | App'd:     |
| Code: TIA-222-H                                     | Date: 05/14/21    | Scale: NTS |
| Path:   | Dwg No. E-2       |            |

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# TIA-222-H - 125 mph/50 mph 1.500 in Ice Exposure C

Leg Capacity ———

Leg Compression (K) ———



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|---|-------------------|------------|
| Job: <b>91292.019.01 - MILFORD, CT (BU# 842870)</b> |                   |            |
| Project:  |                   |            |
| Client: Crown Castle                                | Drawn by: Nithesh | App'd:     |
| Code: TIA-222-H                                     | Date: 05/14/21    | Scale: NTS |
| Path:   | Dwg No. E-3       |            |

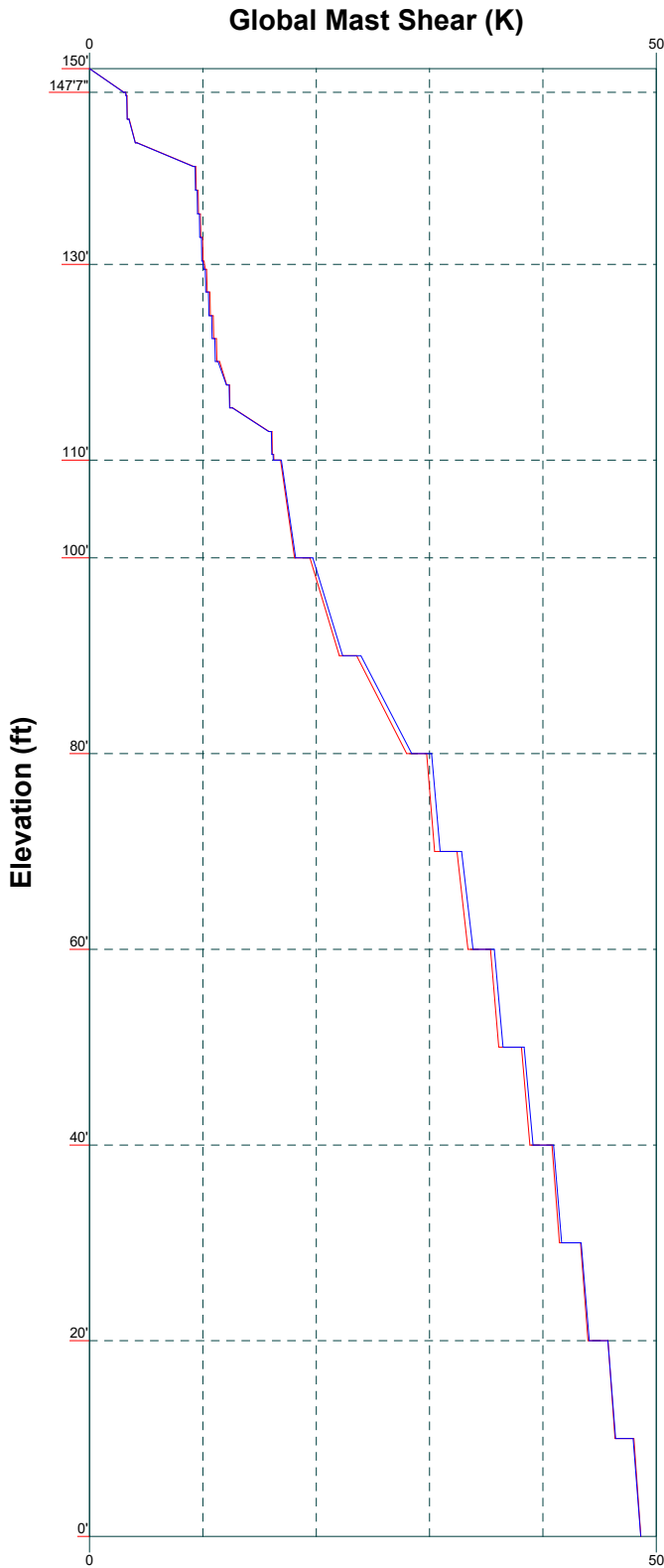
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Vx

Vz

Mx

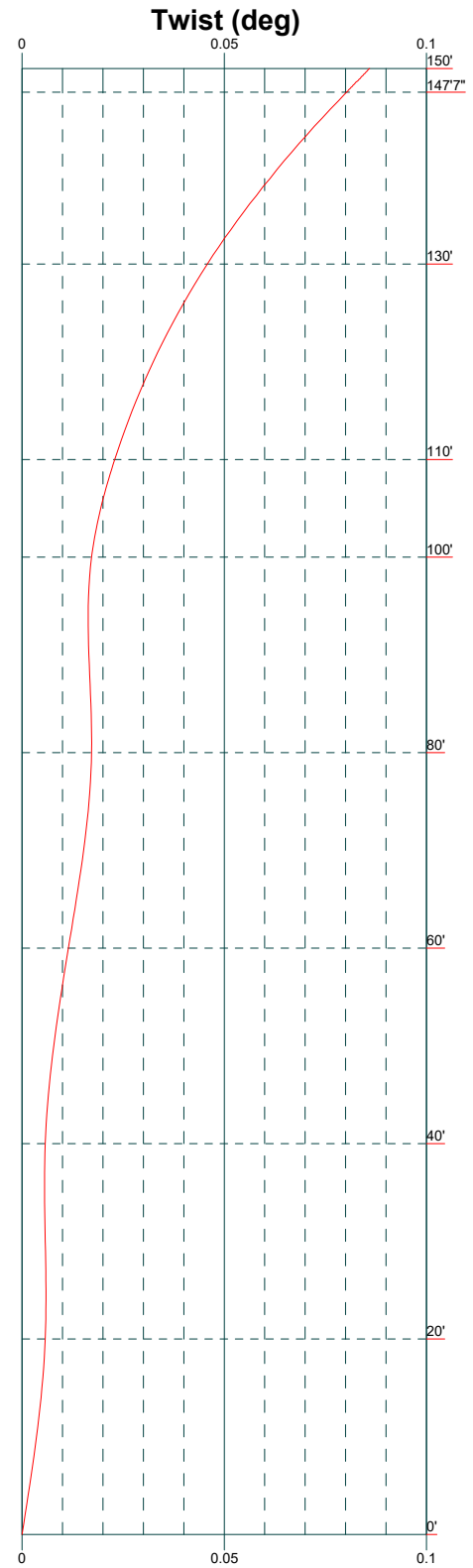
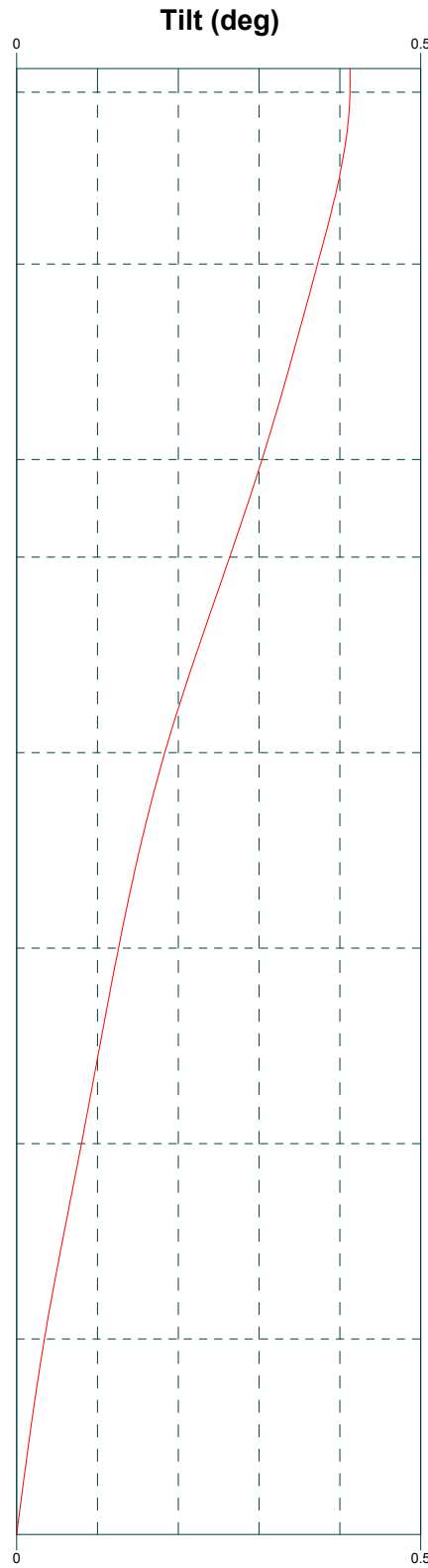
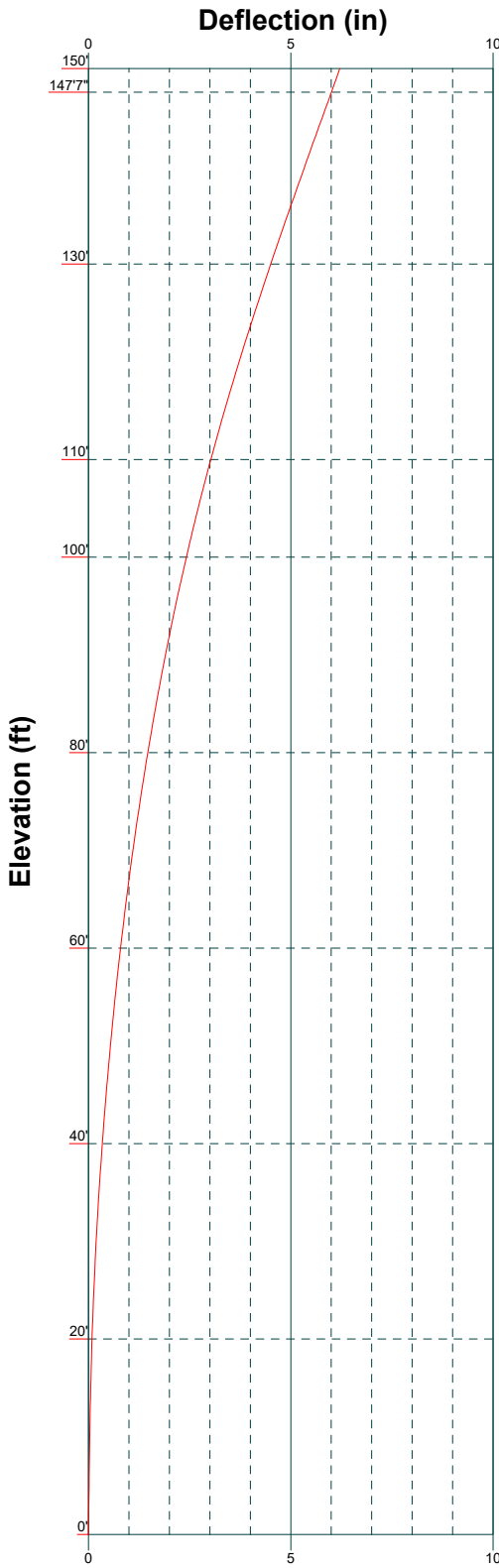
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|   |                   |            |
|---|-------------------|------------|
| Job: <b>91292.019.01 - MILFORD, CT (BU# 842870)</b> |                   |            |
| Project:  |                   |            |
| Client: Crown Castle                                | Drawn by: Nithesh | App'd:     |
| Code: TIA-222-H                                     | Date: 05/14/21    | Scale: NTS |
| Path:   | Dwg No. E-4       |            |

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Elevation (ft)

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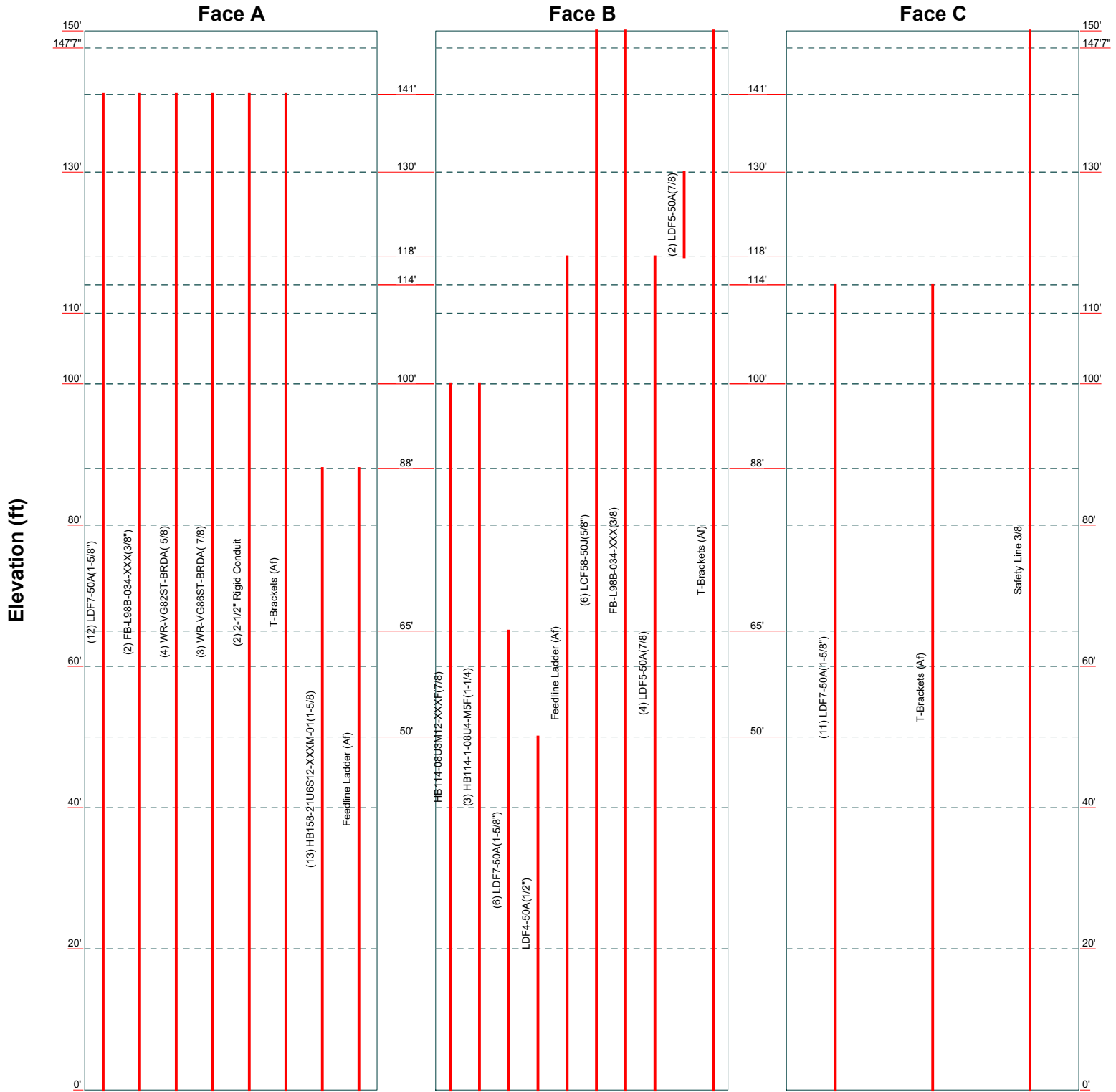
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|---|-------------------|------------|
| <b>Job: 91292.019.01 - MILFORD, CT (BU# 842870)</b> |                   |            |
| Project:  |                   |            |
| Client: Crown Castle                                | Drawn by: Nithesh | App'd:     |
| Code: TIA-222-H                                     | Date: 05/14/21    | Scale: NTS |
| Path:   | Dwg No. E-5       |            |

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# Feed Line Distribution Chart

## 0' - 150'

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



**B+T Group**  
 1717 S. Boulder, Suite 300  
 Tulsa OK, 74119  
 Phone: (918) 587-4630  
 FAX: (918) 295-0265

|   |                   |            |
|---|-------------------|------------|
| <b>Job: 91292.019.01 - MILFORD, CT (BU# 842870)</b> |                   |            |
| Project:  |                   |            |
| Client: Crown Castle                                | Drawn by: Nithesh | App'd:     |
| Code: TIA-222-H                                     | Date: 05/14/21    | Scale: NTS |
| Path:   | Dwg No. E-7       |            |

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|  |   |                                  |
|--|---|----------------------------------|
| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa OK, 74119<br>Phone: (918) 587-4630<br>FAX: (918) 295-0265 | <b>Job</b><br>91292.019.01 - MILFORD, CT (BU# 842870) | <b>Page</b><br>1 of 38           |
|  | <b>Project</b>  | <b>Date</b><br>16:57:03 05/14/21 |
|  | <b>Client</b><br>Crown Castle                         | <b>Designed by</b><br>Nithesh    |

## Tower Input Data

The main tower is a 3x free standing tower with an overall height of 150' above the ground line.

The base of the tower is set at an elevation of 0' above the ground line.

The face width of the tower is 4' at the top and 16' 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: 68'.

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'.

Nominal ice thickness of 1.500 in.

Ice thickness is considered to increase with height.

Ice density of 56.000 pcf.

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

Temperature drop of 50.000 °F.

Deflections calculated using a wind speed of 60 mph.

TIA-222-H Annex S.

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.

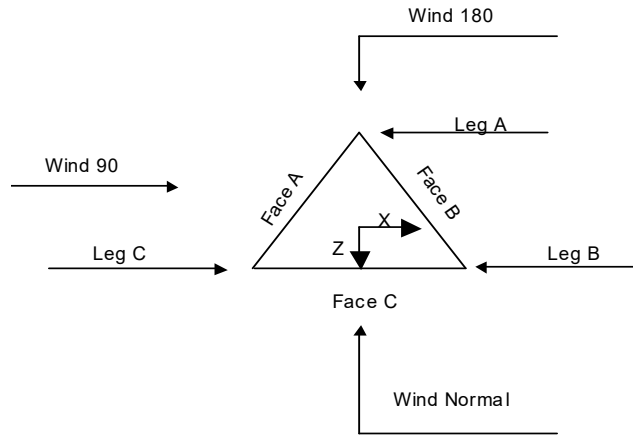
Load Modification Factors used:  $K_{es}(F_w) = 0.95$ ,  $K_{es}(t_i) = 0.85$ .

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>Retension 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. Exemption</li> <li>Use TIA-222-H Tension Splice Exemption</li> <li style="text-align: center;">Poles</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 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            | 150'-147'7"     |                   |             | 4'            | 1                  | 2'5"           |
| T2            | 147'7"-130'     |                   |             | 4'3/4"        | 1                  | 17'7"          |
| T3            | 130'-110'       |                   |             | 4'6"          | 1                  | 20'            |
| T4            | 110'-100'       |                   |             | 5'            | 1                  | 10'            |
| T5            | 100'-80'        |                   |             | 6'            | 1                  | 20'            |
| T6            | 80'-60'         |                   |             | 8'            | 1                  | 20'            |
| T7            | 60'-40'         |                   |             | 10'           | 1                  | 20'            |
| T8            | 40'-20'         |                   |             | 12'           | 1                  | 20'            |
| T9            | 20'-0'          |                   |             | 14'           | 1                  | 20'            |

**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            | 150'-147'7"     | 2'5"             | K Brace Down | No                     | Yes             | 0.000           | 0.000              |
| T2            | 147'7"-130'     | 2'5"             | X Brace      | No                     | Steps           | 4.000           | 4.000              |
| T3            | 130'-110'       | 2'4-3/8"         | X Brace      | No                     | Steps           | 6.000           | 7.000              |
| T4            | 110'-100'       | 10'              | X Brace      | No                     | No              | 0.000           | 0.000              |
| T5            | 100'-80'        | 10'              | X Brace      | No                     | No              | 0.000           | 0.000              |
| T6            | 80'-60'         | 10'              | X Brace      | No                     | No              | 0.000           | 0.000              |
| T7            | 60'-40'         | 10'              | X Brace      | No                     | No              | 0.000           | 0.000              |
| T8            | 40'-20'         | 10'              | X Brace      | No                     | No              | 0.000           | 0.000              |



|  |                |   |             |                    |
|--|----------------|---|-------------|--------------------|
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|  | <b>Client</b>  | Crown Castle                            |             | <b>Designed by</b> |

| Tower Section | Tower Elevation | Diagonal Spacing | Bracing Type | Has K Brace End Panels | Has Horizontals | Top Girt Offset | Bottom Girt Offset |
|---------------|-----------------|------------------|--------------|------------------------|-----------------|-----------------|--------------------|
|               | ft              | ft               |              | No                     | No              | in              | in                 |
| T9            | 20'-0'          | 10'              | X Brace      | No                     | No              | 0.000           | 0.000              |

### Tower Section Geometry (cont'd)

| Tower Elevation | Leg Type    | Leg Size     | Leg Grade        | Diagonal Type | Diagonal Size     | Diagonal Grade   |
|-----------------|-------------|--------------|------------------|---------------|-------------------|------------------|
| ft              |             |              |                  |               |                   |                  |
| T1 150'-147'7"  | Solid Round | 1 1/2        | A572-50 (50 ksi) | Solid Round   | 3/4               | A572-50 (50 ksi) |
| T2 147'7"-130'  | Solid Round | 1 1/2        | A572-50 (50 ksi) | Solid Round   | 3/4               | A572-50 (50 ksi) |
| T3 130'-110'    | Solid Round | 2            | A572-50 (50 ksi) | Solid Round   | 7/8               | A572-50 (50 ksi) |
| T4 110'-100'    | Truss Leg   | Pirod 105244 | A572-50 (50 ksi) | Equal Angle   | L2 1/2x2 1/2x3/16 | A36 (36 ksi)     |
| T5 100'-80'     | Truss Leg   | Pirod 105216 | A572-50 (50 ksi) | Equal Angle   | L2 1/2x2 1/2x3/8  | A36 (36 ksi)     |
| T6 80'-60'      | Truss Leg   | Pirod 105217 | A572-50 (50 ksi) | Equal Angle   | L3x3x3/16         | A36 (36 ksi)     |
| T7 60'-40'      | Truss Leg   | Pirod 105218 | A572-50 (50 ksi) | Equal Angle   | L3x3x3/16         | A36 (36 ksi)     |
| T8 40'-20'      | Truss Leg   | Pirod 105218 | A572-50 (50 ksi) | Equal Angle   | L3x3x5/16         | A36 (36 ksi)     |
| T9 20'-0'       | Truss Leg   | Pirod 105219 | A572-50 (50 ksi) | Equal Angle   | L3x3x5/16         | A36 (36 ksi)     |

### Tower Section Geometry (cont'd)

| Tower Elevation | Top Girt Type | Top Girt Size | Top Girt Grade   | Bottom Girt Type | Bottom Girt Size | Bottom Girt Grade |
|-----------------|---------------|---------------|------------------|------------------|------------------|-------------------|
| ft              |               |               |                  |                  |                  |                   |
| T2 147'7"-130'  | Solid Round   | 7/8           | A572-50 (50 ksi) | Solid Round      | 7/8              | A572-50 (50 ksi)  |
| T3 130'-110'    | Solid Round   | 7/8           | A572-50 (50 ksi) | Solid Round      | 7/8              | A572-50 (50 ksi)  |
| T4 110'-100'    | Equal Angle   | L3x3x3/16     | A36 (36 ksi)     | Equal Angle      |                  | A36 (36 ksi)      |
| T5 100'-80'     | Equal Angle   | L3x3x3/16     | A36 (36 ksi)     | Equal Angle      |                  | A36 (36 ksi)      |
| T6 80'-60'      | Equal Angle   | L3x3x3/16     | A36 (36 ksi)     | Equal Angle      |                  | A36 (36 ksi)      |

### Tower Section Geometry (cont'd)

| Tower Elevation | No. of Mid Girts | Mid Girt Type | Mid Girt Size | Mid Girt Grade | Horizontal Type | Horizontal Size | Horizontal Grade |
|-----------------|------------------|---------------|---------------|----------------|-----------------|-----------------|------------------|
| ft              |                  |               |               |                |                 |                 |                  |
| T1 150'-147'7"  | None             | Solid Round   |               | A36 (36 ksi)   | Flat Bar        | 5x1/2           | A36 (36 ksi)     |





|  |                |   |             |                    |
|--|----------------|---|-------------|--------------------|
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|  | <b>Client</b>  | Crown Castle                            |             | <b>Designed by</b> |

| Tower Elevation<br>ft | Redundant Horizontal      |      | Redundant Diagonal        |      | Redundant Sub-Diagonal    |      | Redundant Sub-Horizontal  |      | Redundant Vertical        |      | Redundant Hip             |      | Redundant Hip Diagonal    |      |
|-----------------------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|
|                       | Net Width<br>Deduct<br>in | U    | Net Width<br>Deduct<br>in | U    | Net Width<br>Deduct<br>in | U    | Net Width<br>Deduct<br>in | U    | Net Width<br>Deduct<br>in | U    | Net Width<br>Deduct<br>in | U    | Net Width<br>Deduct<br>in | U    |
| T4 110'-100'          | 0.000                     | 0.75 | 0.000                     | 0.75 | 0.000                     | 0.75 | 0.000                     | 0.75 | 0.000                     | 0.75 | 0.000                     | 0.75 | 0.000                     | 0.75 |
| T5 100'-80'           | 0.000                     | 0.75 | 0.000                     | 0.75 | 0.000                     | 0.75 | 0.000                     | 0.75 | 0.000                     | 0.75 | 0.000                     | 0.75 | 0.000                     | 0.75 |
| T6 80'-60'            | 0.000                     | 0.75 | 0.000                     | 0.75 | 0.000                     | 0.75 | 0.000                     | 0.75 | 0.000                     | 0.75 | 0.000                     | 0.75 | 0.000                     | 0.75 |
| T7 60'-40'            | 0.000                     | 0.75 | 0.000                     | 0.75 | 0.000                     | 0.75 | 0.000                     | 0.75 | 0.000                     | 0.75 | 0.000                     | 0.75 | 0.000                     | 0.75 |
| T8 40'-20'            | 0.000                     | 0.75 | 0.000                     | 0.75 | 0.000                     | 0.75 | 0.000                     | 0.75 | 0.000                     | 0.75 | 0.000                     | 0.75 | 0.000                     | 0.75 |
| T9 20'-0'             | 0.000                     | 0.75 | 0.000                     | 0.75 | 0.000                     | 0.75 | 0.000                     | 0.75 | 0.000                     | 0.75 | 0.000                     | 0.75 | 0.000                     | 0.75 |

### Tower Section Geometry (cont'd)

| Tower Elevation<br>ft | Leg Connection<br>Type | Leg             |     | Diagonal        |     | Top Girt        |     | Bottom Girt     |     | Mid Girt        |     | Long Horizontal |     | Short Horizontal |     |
|-----------------------|------------------------|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|------------------|-----|
|                       |                        | Bolt Size<br>in | No. | Bolt Size<br>in | No. | Bolt Size<br>in | No. | Bolt Size<br>in | No. | Bolt Size<br>in | No. | Bolt Size<br>in | No. | Bolt Size<br>in  | No. |
| T1 150'-147'7"        | Sleeve DS              | 0.000           | 0   | 0.000           | 0   | 0.000           | 0   | 0.000           | 0   | 0.000           | 0   | 0.000           | 0   | 0.625            | 0   |
|                       |                        | A325N           |     | A325N           |     | A325N           |     | A325N           |     | A325N           |     | A325N           |     | A325N            |     |
| T2 147'7"-130'        | Sleeve DS              | 0.625           | 5   | 0.000           | 0   | 0.000           | 0   | 0.000           | 0   | 0.000           | 0   | 0.000           | 0   | 0.625            | 0   |
|                       |                        | A325N           |     | A325N           |     | A325N           |     | A325N           |     | A325N           |     | A325N           |     | A325N            |     |
| T3 130'-110'          | Flange                 | 1.000           | 6   | 0.000           | 0   | 0.000           | 0   | 0.000           | 0   | 0.000           | 0   | 0.000           | 0   | 0.625            | 0   |
|                       |                        | A325N           |     | A325N           |     | A325N           |     | A325N           |     | A325N           |     | A325N           |     | A325N            |     |
| T4 110'-100'          | Flange                 | 1.000           | 6   | 1.000           | 1   | 1.000           | 1   | 0.000           | 0   | 0.000           | 0   | 0.000           | 0   | 0.625            | 0   |
|                       |                        | A325N           |     | A325N           |     | A325N           |     | A325N           |     | A325N           |     | A325N           |     | A325N            |     |
| T5 100'-80'           | Flange                 | 1.000           | 6   | 1.000           | 1   | 1.000           | 1   | 0.000           | 0   | 0.000           | 0   | 0.000           | 0   | 0.625            | 0   |
|                       |                        | A325N           |     | A325N           |     | A325N           |     | A325N           |     | A325N           |     | A325N           |     | A325N            |     |
| T6 80'-60'            | Flange                 | 1.000           | 6   | 1.000           | 1   | 1.000           | 1   | 0.000           | 0   | 0.000           | 0   | 0.000           | 0   | 0.625            | 0   |
|                       |                        | A325N           |     | A325N           |     | A325N           |     | A325N           |     | A325N           |     | A325N           |     | A325N            |     |
| T7 60'-40'            | Flange                 | 1.000           | 6   | 1.000           | 1   | 0.000           | 0   | 0.000           | 0   | 0.000           | 0   | 0.000           | 0   | 0.625            | 0   |
|                       |                        | A325N           |     | A325N           |     | A325N           |     | A325N           |     | A325N           |     | A325N           |     | A325N            |     |
| T8 40'-20'            | Flange                 | 1.000           | 6   | 1.000           | 1   | 0.000           | 0   | 0.000           | 0   | 0.000           | 0   | 0.000           | 0   | 0.625            | 0   |
|                       |                        | A325N           |     | A325N           |     | A325N           |     | A325N           |     | A325N           |     | A325N           |     | A325N            |     |
| T9 20'-0'             | Flange                 | 1.250           | 0   | 1.250           | 1   | 0.000           | 0   | 0.000           | 0   | 0.000           | 0   | 0.000           | 0   | 0.625            | 0   |
|                       |                        | A687            |     | A325N           |     | A325N           |     | A325N           |     | A325N           |     | A325N           |     | A325N            |     |

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

| Description           | Face<br>or<br>Leg | Allow<br>Shield | Exclude<br>From<br>Torque<br>Calculation | Component<br>Type | Placement<br>ft | Face<br>Offset<br>in | Lateral<br>Offset<br>(Frac FW) | #  | #<br>Per<br>Row | Clear<br>Spacing<br>in | Width or<br>Diameter<br>in | Perimeter<br>in | Weight<br>klf |
|-----------------------|-------------------|-----------------|--|-------------------|-----------------|----------------------|--------------------------------|----|-----------------|------------------------|----------------------------|-----------------|---------------|
| LDF7-50A(1-5/8")      | A                 | No              | No                                       | Ar (CaAa)         | 141' - 0'       | -15.000              | 0.4                            | 12 | 4               | 0.750<br>1.000         | 1.980                      |                 | 0.001         |
| FB-L98B-034-XXX(3/8") | A                 | No              | No                                       | Ar (CaAa)         | 141' - 0'       | -4.000               | 0.38                           | 2  | 2               | 0.300                  | 0.394                      |                 | 0.000         |
| WR-VG82ST-BRDA( 5/8)  | A                 | No              | No                                       | Ar (CaAa)         | 141' - 0'       | -4.000               | 0.37                           | 4  | 4               | 0.300                  | 0.645                      |                 | 0.000         |
| WR-VG86ST-BRDA( 7/8)  | A                 | No              | No                                       | Ar (CaAa)         | 141' - 0'       | -8.000               | 0.34                           | 3  | 2               | 0.300                  | 0.880                      |                 | 0.001         |
| 2-1/2" Rigid Conduit  | A                 | No              | No                                       | Ar (CaAa)         | 141' - 0'       | -4.000               | 0.38                           | 2  | 2               | 1.000                  | 2.500                      |                 | 0.003         |
| T-Brackets            | A                 | No              | No                                       | Af (CaAa)         | 141' - 0'       | -8.000               | 0.42                           | 1  | 1               | 1.000                  | 1.000                      |                 | 0.008         |

|   |  |   |
|---|--|---|
| <p><b>tnxTower</b></p> <p><b>B+T Group</b><br/>1717 S. Boulder, Suite 300<br/>Tulsa OK, 74119<br/>Phone: (918) 587-4630<br/>FAX: (918) 295-0265</p> | <p><b>Job</b></p> <p>91292.019.01 - MILFORD, CT (BU# 842870)</p> | <p><b>Page</b></p> <p>7 of 38</p>           |
|   | <p><b>Project</b></p>  | <p><b>Date</b></p> <p>16:57:03 05/14/21</p> |
|   | <p><b>Client</b></p> <p>Crown Castle</p>                         | <p><b>Designed by</b></p> <p>Nithesh</p>    |

| 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 klf |
|--|-------------|--------------|---------------------------------|----------------|--------------|----------------|--------------------------|----|-----------|------------------|----------------------|--------------|------------|
| (Af)   |             |              |                                 |                |              |                |                          |    |           |                  |                      |              |            |
| *<br>HB158-21U6S<br>12-XXXM-01<br>(1-5/8)<br>Feedline<br>Ladder (Af) | A           | No           | No                              | Ar (CaAa)      | 88' - 0'     | 0.000          | -0.1                     | 13 | 11        | 0.500            | 1.990                |              | 0.002      |
| *<br>HB114-08U3<br>M12-XXXF(7/8)                                     | B           | No           | No                              | Ar (CaAa)      | 100' - 0'    | -2.000         | -0.18                    | 1  | 1         | 1.000            | 1.110                |              | 0.001      |
| *<br>HB114-1-08U<br>4-M5F(1-1/4)                                     | B           | No           | No                              | Ar (CaAa)      | 100' - 0'    | -2.000         | -0.22                    | 3  | 3         | 0.750            | 1.540                |              | 0.001      |
| *<br>LDF7-50A(1-5/8")  | B           | No           | No                              | Ar (CaAa)      | 65' - 0'     | -2.000         | -0.3                     | 6  | 6         | 0.750            | 1.980                |              | 0.001      |
| *<br>LDF4-50A(1/2")<br>Feedline<br>Ladder (Af)                       | B           | No           | No                              | Ar (CaAa)      | 50' - 0'     | -1.000         | -0.19                    | 1  | 1         | 0.750            | 0.630                |              | 0.000      |
| *<br>LCF58-50J(5/8")   | B           | No           | No                              | Ar (CaAa)      | 150' - 0'    | -4.000         | 0.46                     | 6  | 4         | 0.750            | 0.840                |              | 0.000      |
| *<br>FB-L98B-034-XXX(3/8)  | B           | No           | No                              | Ar (CaAa)      | 150' - 0'    | -5.000         | 0.39                     | 1  | 1         | 0.500            | 0.394                |              | 0.000      |
| *<br>LDF5-50A(7/8)   | B           | No           | No                              | Ar (CaAa)      | 118' - 0'    | -4.000         | 0.42                     | 4  | 4         | 0.750            | 1.030                |              | 0.000      |
| *<br>LDF5-50A(7/8)<br>T-Brackets (Af)                                | B           | No           | No                              | Ar (CaAa)      | 130' - 118'  | -4.000         | 0.42                     | 2  | 2         | 0.750            | 1.030                |              | 0.000      |
| *<br>LDF7-50A(1-5/8")<br>T-Brackets (Af)                             | B           | No           | No                              | Af (CaAa)      | 150' - 0'    | -3.000         | 0.47                     | 1  | 1         | 1.000            | 1.000                |              | 0.008      |
| *<br>LDF7-50A(1-5/8")  | C           | No           | No                              | Ar (CaAa)      | 114' - 0'    | -7.000         | 0.42                     | 11 | 6         | 0.750            | 1.980                |              | 0.001      |
| *<br>T-Brackets (Af)   | C           | No           | No                              | Af (CaAa)      | 114' - 0'    | -4.000         | 0.44                     | 1  | 1         | 1.000            | 1.000                |              | 0.008      |
| *<br>Safety Line 3/8   | C           | No           | No                              | Ar (CaAa)      | 150' - 0'    | 0.000          | 0.5                      | 1  | 1         | 0.375            | 0.375                |              | 0.000      |

### Feed Line/Linear Appurtenances Section Areas

| Tower Section | Tower Elevation ft | Face | A <sub>R</sub> ft <sup>2</sup> | A <sub>F</sub> ft <sup>2</sup> | C <sub>A</sub> A <sub>A</sub> In Face ft <sup>2</sup> | C <sub>A</sub> A <sub>A</sub> Out Face ft <sup>2</sup> | Weight K |
|---------------|--------------------|------|--------------------------------|--------------------------------|---|--|----------|
| T1            | 150'-147'7"        | A    | 0.000                          | 0.000                          | 0.000   | 0.000  | 0.000    |
|               |                    | B    | 0.000                          | 0.000                          | 1.716   | 0.000  | 0.024    |
|               |                    | C    | 0.000                          | 0.000                          | 0.091   | 0.000  | 0.001    |
| T2            | 147'7"-130'        | A    | 0.000                          | 0.000                          | 40.077  | 0.000  | 0.304    |
|               |                    | B    | 0.000                          | 0.000                          | 12.485  | 0.000  | 0.175    |
|               |                    | C    | 0.000                          | 0.000                          | 0.659   | 0.000  | 0.004    |
| T3            | 130'-110'          | A    | 0.000                          | 0.000                          | 72.868  | 0.000  | 0.552    |
|               |                    | B    | 0.000                          | 0.000                          | 23.969  | 0.000  | 0.285    |
|               |                    | C    | 0.000                          | 0.000                          | 10.129  | 0.000  | 0.074    |

|  |                |   |             |                    |
|--|----------------|---|-------------|--------------------|
| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa OK, 74119<br>Phone: (918) 587-4630<br>FAX: (918) 295-0265 | <b>Job</b>     | 91292.019.01 - MILFORD, CT (BU# 842870) | <b>Page</b> | 8 of 38            |
|  | <b>Project</b> |   | <b>Date</b> | 16:57:03 05/14/21  |
|  | <b>Client</b>  | Crown Castle                            |             | <b>Designed by</b> |

| Tower Section | Tower Elevation<br>ft | Face | A <sub>R</sub><br>ft <sup>2</sup> | A <sub>F</sub><br>ft <sup>2</sup> | C <sub>AA</sub><br>In Face<br>ft <sup>2</sup> | C <sub>AA</sub><br>Out Face<br>ft <sup>2</sup> | Weight<br>K |
|---------------|-----------------------|------|-----------------------------------|-----------------------------------|---|--|-------------|
| T4            | 110'-100'             | A    | 0.000                             | 0.000                             | 36.434  | 0.000  | 0.276       |
|               |                       | B    | 0.000                             | 0.000                             | 16.220  | 0.000  | 0.197       |
|               |                       | C    | 0.000                             | 0.000                             | 23.822  | 0.000  | 0.176       |
| T5            | 100'-80'              | A    | 0.000                             | 0.000                             | 97.564  | 0.000  | 0.817       |
|               |                       | B    | 0.000                             | 0.000                             | 43.901  | 0.000  | 0.485       |
|               |                       | C    | 0.000                             | 0.000                             | 47.643  | 0.000  | 0.353       |
| T6            | 80'-60'               | A    | 0.000                             | 0.000                             | 134.608                                       | 0.000  | 1.214       |
|               |                       | B    | 0.000                             | 0.000                             | 49.841  | 0.000  | 0.510       |
|               |                       | C    | 0.000                             | 0.000                             | 47.643  | 0.000  | 0.353       |
| T7            | 60'-40'               | A    | 0.000                             | 0.000                             | 134.608                                       | 0.000  | 1.214       |
|               |                       | B    | 0.000                             | 0.000                             | 68.291  | 0.000  | 0.585       |
|               |                       | C    | 0.000                             | 0.000                             | 47.643  | 0.000  | 0.353       |
| T8            | 40'-20'               | A    | 0.000                             | 0.000                             | 134.608                                       | 0.000  | 1.214       |
|               |                       | B    | 0.000                             | 0.000                             | 68.921  | 0.000  | 0.587       |
|               |                       | C    | 0.000                             | 0.000                             | 47.643  | 0.000  | 0.353       |
| T9            | 20'-0'                | A    | 0.000                             | 0.000                             | 134.608                                       | 0.000  | 1.214       |
|               |                       | B    | 0.000                             | 0.000                             | 68.921  | 0.000  | 0.587       |
|               |                       | C    | 0.000                             | 0.000                             | 47.643  | 0.000  | 0.353       |

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

| Tower Section | Tower Elevation<br>ft | Face or Leg | Ice Thickness<br>in | A <sub>R</sub><br>ft <sup>2</sup> | A <sub>F</sub><br>ft <sup>2</sup> | C <sub>AA</sub><br>In Face<br>ft <sup>2</sup> | C <sub>AA</sub><br>Out Face<br>ft <sup>2</sup> | Weight<br>K |
|---------------|-----------------------|-------------|---------------------|-----------------------------------|-----------------------------------|---|--|-------------|
| T1            | 150'-147'7"           | A           | 1.482               | 0.000                             | 0.000                             | 0.000   | 0.000  | 0.000       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 5.007   | 0.000  | 0.078       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 0.807   | 0.000  | 0.009       |
| T2            | 147'7"-130'           | A           | 1.472               | 0.000                             | 0.000                             | 69.946  | 0.000  | 1.138       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 36.296  | 0.000  | 0.566       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 5.836   | 0.000  | 0.062       |
| T3            | 130'-110'             | A           | 1.451               | 0.000                             | 0.000                             | 126.349                                       | 0.000  | 2.047       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 67.760  | 0.000  | 0.974       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 18.416  | 0.000  | 0.310       |
| T4            | 110'-100'             | A           | 1.431               | 0.000                             | 0.000                             | 62.801  | 0.000  | 1.014       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 40.729  | 0.000  | 0.622       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 32.794  | 0.000  | 0.630       |
| T5            | 100'-80'              | A           | 1.410               | 0.000                             | 0.000                             | 161.600                                       | 0.000  | 2.704       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 113.622                                       | 0.000  | 1.635       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 65.271  | 0.000  | 1.249       |
| T6            | 80'-60'               | A           | 1.375               | 0.000                             | 0.000                             | 215.164                                       | 0.000  | 3.690       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 124.219                                       | 0.000  | 1.749       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 64.762  | 0.000  | 1.229       |
| T7            | 60'-40'               | A           | 1.329               | 0.000                             | 0.000                             | 212.943                                       | 0.000  | 3.614       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 161.173                                       | 0.000  | 2.168       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 64.102  | 0.000  | 1.204       |
| T8            | 40'-20'               | A           | 1.263               | 0.000                             | 0.000                             | 209.714                                       | 0.000  | 3.506       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 161.408                                       | 0.000  | 2.110       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 63.141  | 0.000  | 1.168       |
| T9            | 20'-0'                | A           | 1.132               | 0.000                             | 0.000                             | 203.312                                       | 0.000  | 3.295       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 155.360                                       | 0.000  | 1.937       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 61.236  | 0.000  | 1.099       |

|  |                |   |                    |                   |
|--|----------------|---|--------------------|-------------------|
| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa OK, 74119<br>Phone: (918) 587-4630<br>FAX: (918) 295-0265 | <b>Job</b>     | 91292.019.01 - MILFORD, CT (BU# 842870) | <b>Page</b>        | 9 of 38           |
|  | <b>Project</b> |   | <b>Date</b>        | 16:57:03 05/14/21 |
|  | <b>Client</b>  | Crown Castle                            | <b>Designed by</b> | Nithesh           |

### Feed Line Center of Pressure

| Section | Elevation   | CP <sub>x</sub> | CP <sub>z</sub> | CP <sub>x</sub> | CP <sub>z</sub> |
|---------|-------------|-----------------|-----------------|-----------------|-----------------|
|         | ft          | in              | in              | Ice<br>in       | Ice<br>in       |
| T1      | 150'-147.7" | 2.491           | 2.506           | 2.059           | 2.688           |
| T2      | 147.7"-130' | 5.336           | -4.293          | 3.589           | -1.561          |
| T3      | 130'-110'   | 3.594           | -6.006          | 3.463           | -2.987          |
| T4      | 110'-100'   | -2.272          | -3.936          | -0.287          | -1.485          |
| T5      | 100'-80'    | -4.145          | -6.406          | -1.240          | -3.935          |
| T6      | 80'-60'     | -6.864          | -8.454          | -3.384          | -6.328          |
| T7      | 60'-40'     | -7.607          | -12.619         | -3.932          | -10.682         |
| T8      | 40'-20'     | -8.692          | -14.626         | -4.506          | -12.629         |
| T9      | 20'-0'      | -9.626          | -16.251         | -5.309          | -14.274         |

### Shielding Factor Ka

| Tower Section | Feed Line Record No. | Description           | Feed Line Segment Elev. | K <sub>a</sub><br>No Ice | K <sub>a</sub><br>Ice |
|---------------|----------------------|-----------------------|-------------------------|--------------------------|-----------------------|
| T1            | 19                   | LCF58-50J(5/8")       | 147.58 - 150.00         | 0.6000                   | 0.4113                |
| T1            | 20                   | FB-L98B-034-XXX(3/8)  | 147.58 - 150.00         | 0.6000                   | 0.4113                |
| T1            | 24                   | T-Brackets (Af)       | 147.58 - 150.00         | 0.6000                   | 0.4113                |
| T1            | 29                   | Safety Line 3/8       | 147.58 - 150.00         | 0.6000                   | 0.4113                |
| T2            | 1                    | LDF7-50A(1-5/8")      | 130.00 - 141.00         | 0.6000                   | 0.5569                |
| T2            | 2                    | FB-L98B-034-XXX(3/8") | 130.00 - 141.00         | 0.0000                   | 0.0000                |
| T2            | 3                    | WR-VG82ST-BRDA( 5/8)  | 130.00 - 141.00         | 0.0000                   | 0.0000                |
| T2            | 4                    | WR-VG86ST-BRDA( 7/8)  | 130.00 - 141.00         | 0.6000                   | 0.5569                |
| T2            | 5                    | 2-1/2" Rigid Conduit  | 130.00 - 141.00         | 0.6000                   | 0.5569                |
| T2            | 6                    | T-Brackets (Af)       | 130.00 - 141.00         | 0.6000                   | 0.5569                |
| T2            | 19                   | LCF58-50J(5/8")       | 130.00 - 147.58         | 0.6000                   | 0.5569                |
| T2            | 20                   | FB-L98B-034-XXX(3/8)  | 130.00 - 147.58         | 0.6000                   | 0.5569                |
| T2            | 24                   | T-Brackets (Af)       | 130.00 - 147.58         | 0.6000                   | 0.5569                |
| T2            | 29                   | Safety Line 3/8       | 130.00 - 147.58         | 0.6000                   | 0.5569                |
| T3            | 1                    | LDF7-50A(1-5/8")      | 110.00 - 130.00         | 0.6000                   | 0.5638                |
| T3            | 2                    | FB-L98B-034-XXX(3/8") | 110.00 - 130.00         | 0.0000                   | 0.0000                |
| T3            | 3                    | WR-VG82ST-BRDA( 5/8)  | 110.00 - 130.00         | 0.0000                   | 0.0000                |
| T3            | 4                    | WR-VG86ST-BRDA( 7/8)  | 110.00 - 130.00         | 0.6000                   | 0.5638                |
| T3            | 5                    | 2-1/2" Rigid Conduit  | 110.00 - 130.00         | 0.6000                   | 0.5638                |
| T3            | 6                    | T-Brackets (Af)       | 110.00 - 130.00         | 0.6000                   | 0.5638                |
| T3            | 17                   | Feedline Ladder (Af)  | 110.00 - 118.00         | 0.6000                   | 0.5638                |
| T3            | 19                   | LCF58-50J(5/8")       | 110.00 - 130.00         | 0.6000                   | 0.5638                |
| T3            | 20                   | FB-L98B-034-XXX(3/8)  | 110.00 - 130.00         | 0.6000                   | 0.5638                |
| T3            | 22                   | LDF5-50A(7/8)         | 110.00 - 118.00         | 0.6000                   | 0.5638                |
| T3            | 23                   | LDF5-50A(7/8)         | 118.00 - 130.00         | 0.6000                   | 0.5638                |
| T3            | 24                   | T-Brackets (Af)       | 110.00 - 130.00         | 0.6000                   | 0.5638                |
| T3            | 26                   | LDF7-50A(1-5/8")      | 110.00 - 114.00         | 0.6000                   | 0.5638                |
| T3            | 27                   | T-Brackets (Af)       | 110.00 - 114.00         | 0.6000                   | 0.5638                |
| T3            | 29                   | Safety Line 3/8       | 110.00 - 130.00         | 0.6000                   | 0.5638                |
| T4            | 1                    | LDF7-50A(1-5/8")      | 100.00 - 110.00         | 0.6000                   | 0.3339                |
| T4            | 2                    | FB-L98B-034-XXX(3/8") | 100.00 - 110.00         | 0.0000                   | 0.0000                |
| T4            | 3                    | WR-VG82ST-BRDA( 5/8)  | 100.00 - 110.00         | 0.0000                   | 0.0000                |
| T4            | 4                    | WR-VG86ST-BRDA( 7/8)  | 100.00 - 110.00         | 0.6000                   | 0.3339                |
| T4            | 5                    | 2-1/2" Rigid Conduit  | 100.00 - 110.00         | 0.6000                   | 0.3339                |
| T4            | 6                    | T-Brackets (Af)       | 100.00 - 110.00         | 0.6000                   | 0.3339                |
| T4            | 17                   | Feedline Ladder (Af)  | 100.00 - 110.00         | 0.6000                   | 0.3339                |
| T4            | 19                   | LCF58-50J(5/8")       | 100.00 - 110.00         | 0.6000                   | 0.3339                |
| T4            | 20                   | FB-L98B-034-XXX(3/8)  | 100.00 - 110.00         | 0.6000                   | 0.3339                |
| T4            | 22                   | LDF5-50A(7/8)         | 100.00 - 110.00         | 0.6000                   | 0.3339                |
| T4            | 24                   | T-Brackets (Af)       | 100.00 - 110.00         | 0.6000                   | 0.3339                |
| T4            | 26                   | LDF7-50A(1-5/8")      | 100.00 - 110.00         | 0.6000                   | 0.3339                |

| Tower Section | Feed Line Record No. | Description                  | Feed Line Segment Elev. | K <sub>a</sub> No Ice | K <sub>a</sub> Ice |
|---------------|----------------------|------------------------------|-------------------------|-----------------------|--------------------|
| T4            | 27                   | T-Brackets (Af)              | 100.00 - 110.00         | 0.6000                | 0.3339             |
| T4            | 29                   | Safety Line 3/8              | 100.00 - 110.00         | 0.6000                | 0.3339             |
| T5            | 1                    | LDF7-50A(1-5/8")             | 80.00 - 100.00          | 0.6000                | 0.4398             |
| T5            | 2                    | FB-L98B-034-XXX(3/8")        | 80.00 - 100.00          | 0.0000                | 0.0000             |
| T5            | 3                    | WR-VG82ST-BRDA( 5/8)         | 80.00 - 100.00          | 0.0000                | 0.0000             |
| T5            | 4                    | WR-VG86ST-BRDA( 7/8)         | 80.00 - 100.00          | 0.6000                | 0.4398             |
| T5            | 5                    | 2-1/2" Rigid Conduit         | 80.00 - 100.00          | 0.6000                | 0.4398             |
| T5            | 6                    | T-Brackets (Af)              | 80.00 - 100.00          | 0.6000                | 0.4398             |
| T5            | 8                    | HB158-21U6S12-XXXM-01(1-5/8) | 80.00 - 88.00           | 0.6000                | 0.4398             |
| T5            | 9                    | Feedline Ladder (Af)         | 80.00 - 88.00           | 0.6000                | 0.4398             |
| T5            | 11                   | HB114-08U3M12-XXXX(7/8)      | 80.00 - 100.00          | 0.6000                | 0.4398             |
| T5            | 12                   | HB114-1-08U4-M5F(1-1/4)      | 80.00 - 100.00          | 0.6000                | 0.4398             |
| T5            | 17                   | Feedline Ladder (Af)         | 80.00 - 100.00          | 0.6000                | 0.4398             |
| T5            | 19                   | LCF58-50J(5/8")              | 80.00 - 100.00          | 0.6000                | 0.4398             |
| T5            | 20                   | FB-L98B-034-XXX(3/8)         | 80.00 - 100.00          | 0.6000                | 0.4398             |
| T5            | 22                   | LDF5-50A(7/8)                | 80.00 - 100.00          | 0.6000                | 0.4398             |
| T5            | 24                   | T-Brackets (Af)              | 80.00 - 100.00          | 0.6000                | 0.4398             |
| T5            | 26                   | LDF7-50A(1-5/8")             | 80.00 - 100.00          | 0.6000                | 0.4398             |
| T5            | 27                   | T-Brackets (Af)              | 80.00 - 100.00          | 0.6000                | 0.4398             |
| T5            | 29                   | Safety Line 3/8              | 80.00 - 100.00          | 0.6000                | 0.4398             |
| T6            | 1                    | LDF7-50A(1-5/8")             | 60.00 - 80.00           | 0.6000                | 0.5201             |
| T6            | 2                    | FB-L98B-034-XXX(3/8")        | 60.00 - 80.00           | 0.0000                | 0.0000             |
| T6            | 3                    | WR-VG82ST-BRDA( 5/8)         | 60.00 - 80.00           | 0.0000                | 0.0000             |
| T6            | 4                    | WR-VG86ST-BRDA( 7/8)         | 60.00 - 80.00           | 0.6000                | 0.5201             |
| T6            | 5                    | 2-1/2" Rigid Conduit         | 60.00 - 80.00           | 0.6000                | 0.5201             |
| T6            | 6                    | T-Brackets (Af)              | 60.00 - 80.00           | 0.6000                | 0.5201             |
| T6            | 8                    | HB158-21U6S12-XXXM-01(1-5/8) | 60.00 - 80.00           | 0.6000                | 0.5201             |
| T6            | 9                    | Feedline Ladder (Af)         | 60.00 - 80.00           | 0.6000                | 0.5201             |
| T6            | 11                   | HB114-08U3M12-XXXX(7/8)      | 60.00 - 80.00           | 0.6000                | 0.5201             |
| T6            | 12                   | HB114-1-08U4-M5F(1-1/4)      | 60.00 - 80.00           | 0.6000                | 0.5201             |
| T6            | 14                   | LDF7-50A(1-5/8")             | 60.00 - 65.00           | 0.6000                | 0.5201             |
| T6            | 17                   | Feedline Ladder (Af)         | 60.00 - 80.00           | 0.6000                | 0.5201             |
| T6            | 19                   | LCF58-50J(5/8")              | 60.00 - 80.00           | 0.6000                | 0.5201             |
| T6            | 20                   | FB-L98B-034-XXX(3/8)         | 60.00 - 80.00           | 0.6000                | 0.5201             |
| T6            | 22                   | LDF5-50A(7/8)                | 60.00 - 80.00           | 0.6000                | 0.5201             |
| T6            | 24                   | T-Brackets (Af)              | 60.00 - 80.00           | 0.6000                | 0.5201             |
| T6            | 26                   | LDF7-50A(1-5/8")             | 60.00 - 80.00           | 0.6000                | 0.5201             |
| T6            | 27                   | T-Brackets (Af)              | 60.00 - 80.00           | 0.6000                | 0.5201             |
| T6            | 29                   | Safety Line 3/8              | 60.00 - 80.00           | 0.6000                | 0.5201             |
| T7            | 1                    | LDF7-50A(1-5/8")             | 40.00 - 60.00           | 0.6000                | 0.5999             |
| T7            | 2                    | FB-L98B-034-XXX(3/8")        | 40.00 - 60.00           | 0.0000                | 0.0000             |
| T7            | 3                    | WR-VG82ST-BRDA( 5/8)         | 40.00 - 60.00           | 0.0000                | 0.0000             |
| T7            | 4                    | WR-VG86ST-BRDA( 7/8)         | 40.00 - 60.00           | 0.6000                | 0.5999             |
| T7            | 5                    | 2-1/2" Rigid Conduit         | 40.00 - 60.00           | 0.6000                | 0.5999             |
| T7            | 6                    | T-Brackets (Af)              | 40.00 - 60.00           | 0.6000                | 0.5999             |
| T7            | 8                    | HB158-21U6S12-XXXM-01(1-5/8) | 40.00 - 60.00           | 0.6000                | 0.5999             |
| T7            | 9                    | Feedline Ladder (Af)         | 40.00 - 60.00           | 0.6000                | 0.5999             |
| T7            | 11                   | HB114-08U3M12-XXXX(7/8)      | 40.00 - 60.00           | 0.6000                | 0.5999             |
| T7            | 12                   | HB114-1-08U4-M5F(1-1/4)      | 40.00 - 60.00           | 0.6000                | 0.5999             |
| T7            | 14                   | LDF7-50A(1-5/8")             | 40.00 - 60.00           | 0.6000                | 0.5999             |
| T7            | 16                   | LDF4-50A(1/2")               | 40.00 - 50.00           | 0.6000                | 0.5999             |
| T7            | 17                   | Feedline Ladder (Af)         | 40.00 - 60.00           | 0.6000                | 0.5999             |
| T7            | 19                   | LCF58-50J(5/8")              | 40.00 - 60.00           | 0.6000                | 0.5999             |
| T7            | 20                   | FB-L98B-034-XXX(3/8)         | 40.00 - 60.00           | 0.6000                | 0.5999             |
| T7            | 22                   | LDF5-50A(7/8)                | 40.00 - 60.00           | 0.6000                | 0.5999             |
| T7            | 24                   | T-Brackets (Af)              | 40.00 - 60.00           | 0.6000                | 0.5999             |



**tnxTower**

**B+T Group**  
 1717 S. Boulder, Suite 300  
 Tulsa OK, 74119  
 Phone: (918) 587-4630  
 FAX: (918) 295-0265

**Job**

91292.019.01 - MILFORD, CT (BU# 842870)

**Page**

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**Project****Date**

16:57:03 05/14/21

**Client**

Crown Castle

**Designed by**

Nithesh

| Tower Section | Feed Line Record No. | Description                  | Feed Line Segment Elev. | $K_a$ No Ice | $K_a$ Ice |
|---------------|----------------------|------------------------------|-------------------------|--------------|-----------|
| T7            | 26                   | LDF7-50A(1-5/8")             | 40.00 - 60.00           | 0.6000       | 0.5999    |
| T7            | 27                   | T-Brackets (Af)              | 40.00 - 60.00           | 0.6000       | 0.5999    |
| T7            | 29                   | Safety Line 3/8              | 40.00 - 60.00           | 0.6000       | 0.5999    |
| T8            | 1                    | LDF7-50A(1-5/8")             | 20.00 - 40.00           | 0.6000       | 0.6000    |
| T8            | 2                    | FB-L98B-034-XXX(3/8")        | 20.00 - 40.00           | 0.0000       | 0.0000    |
| T8            | 3                    | WR-VG82ST-BRDA( 5/8)         | 20.00 - 40.00           | 0.0000       | 0.0000    |
| T8            | 4                    | WR-VG86ST-BRDA( 7/8)         | 20.00 - 40.00           | 0.6000       | 0.6000    |
| T8            | 5                    | 2-1/2" Rigid Conduit         | 20.00 - 40.00           | 0.6000       | 0.6000    |
| T8            | 6                    | T-Brackets (Af)              | 20.00 - 40.00           | 0.6000       | 0.6000    |
| T8            | 8                    | HB158-21U6S12-XXXM-01(1-5/8) | 20.00 - 40.00           | 0.6000       | 0.6000    |
| T8            | 9                    | Feedline Ladder (Af)         | 20.00 - 40.00           | 0.6000       | 0.6000    |
| T8            | 11                   | HB114-08U3M12-XXXX(7/8)      | 20.00 - 40.00           | 0.6000       | 0.6000    |
| T8            | 12                   | HB114-1-08U4-M5F(1-1/4)      | 20.00 - 40.00           | 0.6000       | 0.6000    |
| T8            | 14                   | LDF7-50A(1-5/8")             | 20.00 - 40.00           | 0.6000       | 0.6000    |
| T8            | 16                   | LDF4-50A(1/2")               | 20.00 - 40.00           | 0.6000       | 0.6000    |
| T8            | 17                   | Feedline Ladder (Af)         | 20.00 - 40.00           | 0.6000       | 0.6000    |
| T8            | 19                   | LCF58-50J(5/8")              | 20.00 - 40.00           | 0.6000       | 0.6000    |
| T8            | 20                   | FB-L98B-034-XXX(3/8)         | 20.00 - 40.00           | 0.6000       | 0.6000    |
| T8            | 22                   | LDF5-50A(7/8)                | 20.00 - 40.00           | 0.6000       | 0.6000    |
| T8            | 24                   | T-Brackets (Af)              | 20.00 - 40.00           | 0.6000       | 0.6000    |
| T8            | 26                   | LDF7-50A(1-5/8")             | 20.00 - 40.00           | 0.6000       | 0.6000    |
| T8            | 27                   | T-Brackets (Af)              | 20.00 - 40.00           | 0.6000       | 0.6000    |
| T8            | 29                   | Safety Line 3/8              | 20.00 - 40.00           | 0.6000       | 0.6000    |
| T9            | 1                    | LDF7-50A(1-5/8")             | 0.00 - 20.00            | 0.6000       | 0.6000    |
| T9            | 2                    | FB-L98B-034-XXX(3/8")        | 0.00 - 20.00            | 0.0000       | 0.0000    |
| T9            | 3                    | WR-VG82ST-BRDA( 5/8)         | 0.00 - 20.00            | 0.0000       | 0.0000    |
| T9            | 4                    | WR-VG86ST-BRDA( 7/8)         | 0.00 - 20.00            | 0.6000       | 0.6000    |
| T9            | 5                    | 2-1/2" Rigid Conduit         | 0.00 - 20.00            | 0.6000       | 0.6000    |
| T9            | 6                    | T-Brackets (Af)              | 0.00 - 20.00            | 0.6000       | 0.6000    |
| T9            | 8                    | HB158-21U6S12-XXXM-01(1-5/8) | 0.00 - 20.00            | 0.6000       | 0.6000    |
| T9            | 9                    | Feedline Ladder (Af)         | 0.00 - 20.00            | 0.6000       | 0.6000    |
| T9            | 11                   | HB114-08U3M12-XXXX(7/8)      | 0.00 - 20.00            | 0.6000       | 0.6000    |
| T9            | 12                   | HB114-1-08U4-M5F(1-1/4)      | 0.00 - 20.00            | 0.6000       | 0.6000    |
| T9            | 14                   | LDF7-50A(1-5/8")             | 0.00 - 20.00            | 0.6000       | 0.6000    |
| T9            | 16                   | LDF4-50A(1/2")               | 0.00 - 20.00            | 0.6000       | 0.6000    |
| T9            | 17                   | Feedline Ladder (Af)         | 0.00 - 20.00            | 0.6000       | 0.6000    |
| T9            | 19                   | LCF58-50J(5/8")              | 0.00 - 20.00            | 0.6000       | 0.6000    |
| T9            | 20                   | FB-L98B-034-XXX(3/8)         | 0.00 - 20.00            | 0.6000       | 0.6000    |
| T9            | 22                   | LDF5-50A(7/8)                | 0.00 - 20.00            | 0.6000       | 0.6000    |
| T9            | 24                   | T-Brackets (Af)              | 0.00 - 20.00            | 0.6000       | 0.6000    |
| T9            | 26                   | LDF7-50A(1-5/8")             | 0.00 - 20.00            | 0.6000       | 0.6000    |
| T9            | 27                   | T-Brackets (Af)              | 0.00 - 20.00            | 0.6000       | 0.6000    |
| T9            | 29                   | Safety Line 3/8              | 0.00 - 20.00            | 0.6000       | 0.6000    |

|  |   |                                  |
|--|---|----------------------------------|
| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa OK, 74119<br>Phone: (918) 587-4630<br>FAX: (918) 295-0265 | <b>Job</b><br>91292.019.01 - MILFORD, CT (BU# 842870) | <b>Page</b><br>12 of 38          |
|  | <b>Project</b>  | <b>Date</b><br>16:57:03 05/14/21 |
|  | <b>Client</b><br>Crown Castle                         | <b>Designed by</b><br>Nithesh    |

## Discrete Tower Loads

| Description               | Face or Leg | Offset Type | Offsets:     |       | Azimuth Adjustment | Placement | C <sub>A</sub> A <sub>Front</sub> | C <sub>A</sub> A <sub>Side</sub> | Weight |       |
|---------------------------|-------------|-------------|--------------|-------|--------------------|-----------|-----------------------------------|----------------------------------|--------|-------|
|                           |             |             | Horz Lateral | Vert  |                    |           |                                   |                                  |        |       |
|                           |             |             | ft           | ft    | °                  | ft        | ft <sup>2</sup>                   | ft <sup>2</sup>                  | K      |       |
| SC226-SFXSNM              | A           | From Leg    | 4.000        | 0.000 | 0.000              | 150'      | No Ice                            | 22.194                           | 22.194 | 0.032 |
|                           |             |             | 0'           |       |                    |           | 1/2" Ice                          | 30.838                           | 30.838 | 0.340 |
|                           |             |             | 10'          |       |                    |           | 1" Ice                            | 31.868                           | 31.868 | 0.661 |
|                           |             |             |              |       |                    |           | 2" Ice                            | 33.955                           | 33.955 | 1.340 |
| SC226-SFXSNM              | C           | From Leg    | 4.000        | 0.000 | 0.000              | 150'      | No Ice                            | 22.194                           | 22.194 | 0.032 |
|                           |             |             | 0'           |       |                    |           | 1/2" Ice                          | 30.838                           | 30.838 | 0.340 |
|                           |             |             | 10'          |       |                    |           | 1" Ice                            | 31.868                           | 31.868 | 0.661 |
|                           |             |             |              |       |                    |           | 2" Ice                            | 33.955                           | 33.955 | 1.340 |
| 1' x 6" x 3"              | C           | From Leg    | 4.000        | 0.000 | 0.000              | 150'      | No Ice                            | 0.600                            | 0.317  | 0.033 |
|                           |             |             | 0'           |       |                    |           | 1/2" Ice                          | 0.704                            | 0.401  | 0.038 |
|                           |             |             | 0'           |       |                    |           | 1" Ice                            | 0.815                            | 0.492  | 0.044 |
|                           |             |             |              |       |                    |           | 2" Ice                            | 1.059                            | 0.695  | 0.062 |
| (3) 5' x 2" Pipe Mount    | A           | From Leg    | 4.000        | 0.000 | 0.000              | 150'      | No Ice                            | 1.188                            | 1.188  | 0.018 |
|                           |             |             | 0'           |       |                    |           | 1/2" Ice                          | 1.496                            | 1.496  | 0.027 |
|                           |             |             | 0'           |       |                    |           | 1" Ice                            | 1.807                            | 1.807  | 0.040 |
|                           |             |             |              |       |                    |           | 2" Ice                            | 2.458                            | 2.458  | 0.076 |
| (3) 5' x 2" Pipe Mount    | B           | From Leg    | 4.000        | 0.000 | 0.000              | 150'      | No Ice                            | 1.188                            | 1.188  | 0.018 |
|                           |             |             | 0'           |       |                    |           | 1/2" Ice                          | 1.496                            | 1.496  | 0.027 |
|                           |             |             | 0'           |       |                    |           | 1" Ice                            | 1.807                            | 1.807  | 0.040 |
|                           |             |             |              |       |                    |           | 2" Ice                            | 2.458                            | 2.458  | 0.076 |
| (3) 5' x 2" Pipe Mount    | C           | From Leg    | 4.000        | 0.000 | 0.000              | 150'      | No Ice                            | 1.188                            | 1.188  | 0.018 |
|                           |             |             | 0'           |       |                    |           | 1/2" Ice                          | 1.496                            | 1.496  | 0.027 |
|                           |             |             | 0'           |       |                    |           | 1" Ice                            | 1.807                            | 1.807  | 0.040 |
|                           |             |             |              |       |                    |           | 2" Ice                            | 2.458                            | 2.458  | 0.076 |
| 5' x 2" Pipe Mount        | C           | From Leg    | 0.000        | 0.000 | 0.000              | 150'      | No Ice                            | 1.188                            | 1.188  | 0.018 |
|                           |             |             | 0'           |       |                    |           | 1/2" Ice                          | 1.496                            | 1.496  | 0.027 |
|                           |             |             | 3'           |       |                    |           | 1" Ice                            | 1.807                            | 1.807  | 0.040 |
|                           |             |             |              |       |                    |           | 2" Ice                            | 2.458                            | 2.458  | 0.076 |
| Platform Mount [LP 405-1] | C           | None        |              |       | 0.000              | 150'      | No Ice                            | 20.880                           | 20.880 | 1.800 |
|                           |             |             |              |       |                    |           | 1/2" Ice                          | 28.890                           | 28.890 | 2.277 |
|                           |             |             |              |       |                    |           | 1" Ice                            | 37.040                           | 37.040 | 2.868 |
|                           |             |             |              |       |                    |           | 2" Ice                            | 53.730                           | 53.730 | 4.394 |
| *<br>RRUS 32 B30          | A           | From Leg    | 0.500        | 0.000 | 0.000              | 144'      | No Ice                            | 2.692                            | 1.573  | 0.060 |
|                           |             |             | 0'           |       |                    |           | 1/2" Ice                          | 2.912                            | 1.756  | 0.080 |
|                           |             |             | 0'           |       |                    |           | 1" Ice                            | 3.138                            | 1.945  | 0.104 |
|                           |             |             |              |       |                    |           | 2" Ice                            | 3.614                            | 2.346  | 0.161 |
| RRUS 32 B30               | B           | From Leg    | 0.500        | 0.000 | 0.000              | 144'      | No Ice                            | 2.692                            | 1.573  | 0.060 |
|                           |             |             | 0'           |       |                    |           | 1/2" Ice                          | 2.912                            | 1.756  | 0.080 |
|                           |             |             | 0'           |       |                    |           | 1" Ice                            | 3.138                            | 1.945  | 0.104 |
|                           |             |             |              |       |                    |           | 2" Ice                            | 3.614                            | 2.346  | 0.161 |
| RRUS 32 B30               | C           | From Leg    | 0.500        | 0.000 | 0.000              | 144'      | No Ice                            | 2.692                            | 1.573  | 0.060 |
|                           |             |             | 0'           |       |                    |           | 1/2" Ice                          | 2.912                            | 1.756  | 0.080 |
|                           |             |             | 0'           |       |                    |           | 1" Ice                            | 3.138                            | 1.945  | 0.104 |
|                           |             |             |              |       |                    |           | 2" Ice                            | 3.614                            | 2.346  | 0.161 |
| RRUS 11 B2                | A           | From Leg    | 0.500        | 0.000 | 0.000              | 144'      | No Ice                            | 2.833                            | 1.182  | 0.051 |
|                           |             |             | 0'           |       |                    |           | 1/2" Ice                          | 3.043                            | 1.330  | 0.072 |
|                           |             |             | 0'           |       |                    |           | 1" Ice                            | 3.259                            | 1.485  | 0.095 |
|                           |             |             |              |       |                    |           | 2" Ice                            | 3.715                            | 1.826  | 0.153 |
| RRUS 11 B2                | B           | From Leg    | 0.500        | 0.000 | 0.000              | 144'      | No Ice                            | 2.833                            | 1.182  | 0.051 |
|                           |             |             | 0'           |       |                    |           | 1/2" Ice                          | 3.043                            | 1.330  | 0.072 |
|                           |             |             | 0'           |       |                    |           | 1" Ice                            | 3.259                            | 1.485  | 0.095 |
|                           |             |             |              |       |                    |           | 2" Ice                            | 3.715                            | 1.826  | 0.153 |
| RRUS 11 B2                | C           | From Leg    | 0.500        | 0.000 | 0.000              | 144'      | No Ice                            | 2.833                            | 1.182  | 0.051 |

|  |                |   |                    |                   |
|--|----------------|---|--------------------|-------------------|
| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa OK, 74119<br>Phone: (918) 587-4630<br>FAX: (918) 295-0265 | <b>Job</b>     | 91292.019.01 - MILFORD, CT (BU# 842870) | <b>Page</b>        | 13 of 38          |
|  | <b>Project</b> |   | <b>Date</b>        | 16:57:03 05/14/21 |
|  | <b>Client</b>  | Crown Castle                            | <b>Designed by</b> | Nithesh           |

| Description               | Face or Leg | Offset Type | Offsets: |         | Azimuth Adjustment | Placement | C <sub>AA</sub> Front | C <sub>AA</sub> Side | Weight |
|---------------------------|-------------|-------------|----------|---------|--------------------|-----------|-----------------------|----------------------|--------|
|                           |             |             | Horz     | Lateral |                    |           |                       |                      |        |
|                           |             |             |          |         |                    |           |                       |                      |        |
|                           |             |             |          |         |                    |           |                       |                      |        |
|                           |             |             |          |         |                    |           |                       |                      |        |
|                           |             |             |          |         |                    |           |                       |                      |        |
| DC6-48-60-18-8F           | A           | From Leg    | 6.000    | 0.000   | 144'               | 1/2" Ice  | 3.043                 | 1.330                | 0.072  |
|                           |             |             | 0'       |         |                    | 1" Ice    | 3.259                 | 1.485                | 0.095  |
|                           |             |             | 0'       |         |                    | 2" Ice    | 3.715                 | 1.826                | 0.153  |
|                           |             |             | 0'       |         |                    | No Ice    | 1.212                 | 1.212                | 0.033  |
|                           |             |             | 0'       |         |                    | 1/2" Ice  | 1.892                 | 1.892                | 0.055  |
|                           |             |             | 0'       |         |                    | 1" Ice    | 2.105                 | 2.105                | 0.080  |
|                           |             |             | 0'       |         |                    | 2" Ice    | 2.570                 | 2.570                | 0.138  |
| DC6-48-60-18-8F           | B           | From Leg    | 6.000    | 0.000   | 144'               | No Ice    | 1.212                 | 1.212                | 0.033  |
|                           |             |             | 0'       |         |                    | 1/2" Ice  | 1.892                 | 1.892                | 0.055  |
|                           |             |             | 0'       |         |                    | 1" Ice    | 2.105                 | 2.105                | 0.080  |
|                           |             |             | 0'       |         |                    | 2" Ice    | 2.570                 | 2.570                | 0.138  |
| (2) 4'x2" Flat Bar Mount  | A           | From Leg    | 0.000    | 0.000   | 144'               | No Ice    | 0.800                 | 0.007                | 0.001  |
|                           |             |             | 0'       |         |                    | 1/2" Ice  | 1.081                 | 0.023                | 0.006  |
|                           |             |             | 0'       |         |                    | 1" Ice    | 1.370                 | 0.047                | 0.015  |
|                           |             |             | 0'       |         |                    | 2" Ice    | 1.970                 | 0.118                | 0.044  |
| (2) 4'x2" Flat Bar Mount  | B           | From Leg    | 0.000    | 0.000   | 144'               | No Ice    | 0.800                 | 0.007                | 0.001  |
|                           |             |             | 0'       |         |                    | 1/2" Ice  | 1.081                 | 0.023                | 0.006  |
|                           |             |             | 0'       |         |                    | 1" Ice    | 1.370                 | 0.047                | 0.015  |
|                           |             |             | 0'       |         |                    | 2" Ice    | 1.970                 | 0.118                | 0.044  |
| (2) 4'x2" Flat Bar Mount  | C           | From Leg    | 0.000    | 0.000   | 144'               | No Ice    | 0.800                 | 0.007                | 0.001  |
|                           |             |             | 0'       |         |                    | 1/2" Ice  | 1.081                 | 0.023                | 0.006  |
|                           |             |             | 0'       |         |                    | 1" Ice    | 1.370                 | 0.047                | 0.015  |
|                           |             |             | 0'       |         |                    | 2" Ice    | 1.970                 | 0.118                | 0.044  |
| *                         |             |             |          |         |                    |           |                       |                      |        |
| 7770.00 w/ Mount Pipe     | A           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 5.746                 | 4.254                | 0.055  |
|                           |             |             | 0'       |         |                    | 1/2" Ice  | 6.179                 | 5.014                | 0.103  |
|                           |             |             | 0'       |         |                    | 1" Ice    | 6.607                 | 5.711                | 0.157  |
|                           |             |             | 0'       |         |                    | 2" Ice    | 7.488                 | 7.155                | 0.287  |
| 7770.00 w/ Mount Pipe     | B           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 5.746                 | 4.254                | 0.055  |
|                           |             |             | 0'       |         |                    | 1/2" Ice  | 6.179                 | 5.014                | 0.103  |
|                           |             |             | 0'       |         |                    | 1" Ice    | 6.607                 | 5.711                | 0.157  |
|                           |             |             | 0'       |         |                    | 2" Ice    | 7.488                 | 7.155                | 0.287  |
| 7770.00 w/ Mount Pipe     | C           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 5.746                 | 4.254                | 0.055  |
|                           |             |             | 0'       |         |                    | 1/2" Ice  | 6.179                 | 5.014                | 0.103  |
|                           |             |             | 0'       |         |                    | 1" Ice    | 6.607                 | 5.711                | 0.157  |
|                           |             |             | 0'       |         |                    | 2" Ice    | 7.488                 | 7.155                | 0.287  |
| 80010964 w/ Mount Pipe    | A           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 8.610                 | 4.100                | 0.116  |
|                           |             |             | 0'       |         |                    | 1/2" Ice  | 9.180                 | 4.590                | 0.186  |
|                           |             |             | 0'       |         |                    | 1" Ice    | 9.770                 | 5.100                | 0.265  |
|                           |             |             | 0'       |         |                    | 2" Ice    | 10.980                | 6.160                | 0.453  |
| 80010964 w/ Mount Pipe    | B           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 8.610                 | 4.100                | 0.116  |
|                           |             |             | 0'       |         |                    | 1/2" Ice  | 9.180                 | 4.590                | 0.186  |
|                           |             |             | 0'       |         |                    | 1" Ice    | 9.770                 | 5.100                | 0.265  |
|                           |             |             | 0'       |         |                    | 2" Ice    | 10.980                | 6.160                | 0.453  |
| 80010964 w/ Mount Pipe    | C           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 8.610                 | 4.100                | 0.116  |
|                           |             |             | 0'       |         |                    | 1/2" Ice  | 9.180                 | 4.590                | 0.186  |
|                           |             |             | 0'       |         |                    | 1" Ice    | 9.770                 | 5.100                | 0.265  |
|                           |             |             | 0'       |         |                    | 2" Ice    | 10.980                | 6.160                | 0.453  |
| SBNHH-1D65A w/ Mount Pipe | A           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 3.040                 | 2.450                | 0.054  |
|                           |             |             | 0'       |         |                    | 1/2" Ice  | 3.340                 | 2.750                | 0.104  |
|                           |             |             | 0'       |         |                    | 1" Ice    | 3.650                 | 3.050                | 0.162  |
|                           |             |             | 0'       |         |                    | 2" Ice    | 4.310                 | 3.680                | 0.307  |
| SBNHH-1D65A w/ Mount Pipe | B           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 3.040                 | 2.450                | 0.054  |
|                           |             |             | 0'       |         |                    | 1/2" Ice  | 3.340                 | 2.750                | 0.104  |
|                           |             |             | 0'       |         |                    | 1" Ice    | 3.650                 | 3.050                | 0.162  |
|                           |             |             | 0'       |         |                    | 2" Ice    | 4.310                 | 3.680                | 0.307  |
| SBNHH-1D65A               | C           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 3.080                 | 1.850                | 0.034  |

|  |                |  |   |  |                    |  |                   |  |
|--|----------------|--|---|--|--------------------|--|-------------------|--|
| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa OK, 74119<br>Phone: (918) 587-4630<br>FAX: (918) 295-0265 | <b>Job</b>     |  | 91292.019.01 - MILFORD, CT (BU# 842870) |  | <b>Page</b>        |  | 14 of 38          |  |
|  | <b>Project</b> |  |   |  | <b>Date</b>        |  | 16:57:03 05/14/21 |  |
|  | <b>Client</b>  |  | Crown Castle                            |  | <b>Designed by</b> |  | Nithesh           |  |

| Description                   | Face or Leg | Offset Type | Offsets: |         | Azimuth Adjustment | Placement | C <sub>AA</sub> Front | C <sub>AA</sub> Side | Weight |
|-------------------------------|-------------|-------------|----------|---------|--------------------|-----------|-----------------------|----------------------|--------|
|                               |             |             | Horz     | Lateral |                    |           |                       |                      |        |
|                               |             |             |          |         |                    |           |                       |                      |        |
|                               |             |             |          |         |                    |           |                       |                      |        |
|                               |             |             |          |         |                    |           |                       |                      |        |
|                               |             |             |          |         |                    |           |                       |                      |        |
| OPA-65R-LCUU-H4 w/ Mount Pipe | A           | From Leg    | 4.000    | 0.000   | 141'               | 1/2" Ice  | 3.400                 | 2.140                | 0.073  |
|                               |             |             | 0'       |         |                    | 1" Ice    | 3.730                 | 2.450                | 0.117  |
|                               |             |             | 0'       |         |                    | 2" Ice    | 4.410                 | 3.090                | 0.222  |
|                               |             |             | 0'       |         |                    | No Ice    | 6.030                 | 4.110                | 0.082  |
|                               |             |             | 0'       |         |                    | 1/2" Ice  | 6.560                 | 4.600                | 0.131  |
|                               |             |             | 0'       |         |                    | 1" Ice    | 7.110                 | 5.110                | 0.187  |
|                               |             |             | 0'       |         |                    | 2" Ice    | 8.260                 | 6.180                | 0.326  |
| OPA-65R-LCUU-H4 w/ Mount Pipe | B           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 6.030                 | 4.110                | 0.082  |
|                               |             |             | 0'       |         |                    | 1/2" Ice  | 6.560                 | 4.600                | 0.131  |
|                               |             |             | 0'       |         |                    | 1" Ice    | 7.110                 | 5.110                | 0.187  |
|                               |             |             | 0'       |         |                    | 2" Ice    | 8.260                 | 6.180                | 0.326  |
| OPA-65R-LCUU-H4 w/ Mount Pipe | C           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 6.030                 | 4.110                | 0.082  |
|                               |             |             | 0'       |         |                    | 1/2" Ice  | 6.560                 | 4.600                | 0.131  |
|                               |             |             | 0'       |         |                    | 1" Ice    | 7.110                 | 5.110                | 0.187  |
|                               |             |             | 0'       |         |                    | 2" Ice    | 8.260                 | 6.180                | 0.326  |
| (2) LGP21401                  | A           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 1.104                 | 0.207                | 0.014  |
|                               |             |             | 0'       |         |                    | 1/2" Ice  | 1.239                 | 0.274                | 0.021  |
|                               |             |             | 0'       |         |                    | 1" Ice    | 1.381                 | 0.348                | 0.030  |
|                               |             |             | 0'       |         |                    | 2" Ice    | 1.688                 | 0.521                | 0.055  |
| (2) LGP21401                  | B           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 1.104                 | 0.207                | 0.014  |
|                               |             |             | 0'       |         |                    | 1/2" Ice  | 1.239                 | 0.274                | 0.021  |
|                               |             |             | 0'       |         |                    | 1" Ice    | 1.381                 | 0.348                | 0.030  |
|                               |             |             | 0'       |         |                    | 2" Ice    | 1.688                 | 0.521                | 0.055  |
| (2) LGP21401                  | C           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 1.104                 | 0.207                | 0.014  |
|                               |             |             | 0'       |         |                    | 1/2" Ice  | 1.239                 | 0.274                | 0.021  |
|                               |             |             | 0'       |         |                    | 1" Ice    | 1.381                 | 0.348                | 0.030  |
|                               |             |             | 0'       |         |                    | 2" Ice    | 1.688                 | 0.521                | 0.055  |
| 7020.00                       | A           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 0.102                 | 0.175                | 0.002  |
|                               |             |             | 0'       |         |                    | 1/2" Ice  | 0.147                 | 0.239                | 0.005  |
|                               |             |             | 0'       |         |                    | 1" Ice    | 0.199                 | 0.311                | 0.009  |
|                               |             |             | 0'       |         |                    | 2" Ice    | 0.326                 | 0.476                | 0.022  |
| 7020.00                       | B           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 0.102                 | 0.175                | 0.002  |
|                               |             |             | 0'       |         |                    | 1/2" Ice  | 0.147                 | 0.239                | 0.005  |
|                               |             |             | 0'       |         |                    | 1" Ice    | 0.199                 | 0.311                | 0.009  |
|                               |             |             | 0'       |         |                    | 2" Ice    | 0.326                 | 0.476                | 0.022  |
| 7020.00                       | C           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 0.102                 | 0.175                | 0.002  |
|                               |             |             | 0'       |         |                    | 1/2" Ice  | 0.147                 | 0.239                | 0.005  |
|                               |             |             | 0'       |         |                    | 1" Ice    | 0.199                 | 0.311                | 0.009  |
|                               |             |             | 0'       |         |                    | 2" Ice    | 0.326                 | 0.476                | 0.022  |
| RRUS 32 B30                   | A           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 2.692                 | 1.573                | 0.060  |
|                               |             |             | 0'       |         |                    | 1/2" Ice  | 2.912                 | 1.756                | 0.080  |
|                               |             |             | 3'       |         |                    | 1" Ice    | 3.138                 | 1.945                | 0.104  |
|                               |             |             | 3'       |         |                    | 2" Ice    | 3.614                 | 2.346                | 0.161  |
| RRUS 32 B30                   | B           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 2.692                 | 1.573                | 0.060  |
|                               |             |             | 0'       |         |                    | 1/2" Ice  | 2.912                 | 1.756                | 0.080  |
|                               |             |             | 3'       |         |                    | 1" Ice    | 3.138                 | 1.945                | 0.104  |
|                               |             |             | 3'       |         |                    | 2" Ice    | 3.614                 | 2.346                | 0.161  |
| RRUS 32 B30                   | C           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 2.692                 | 1.573                | 0.060  |
|                               |             |             | 0'       |         |                    | 1/2" Ice  | 2.912                 | 1.756                | 0.080  |
|                               |             |             | 3'       |         |                    | 1" Ice    | 3.138                 | 1.945                | 0.104  |
|                               |             |             | 3'       |         |                    | 2" Ice    | 3.614                 | 2.346                | 0.161  |
| RRUS 4478 B14                 | A           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 1.843                 | 1.059                | 0.060  |
|                               |             |             | 0'       |         |                    | 1/2" Ice  | 2.012                 | 1.197                | 0.076  |
|                               |             |             | 3'       |         |                    | 1" Ice    | 2.190                 | 1.342                | 0.094  |
|                               |             |             | 3'       |         |                    | 2" Ice    | 2.566                 | 1.656                | 0.140  |
| RRUS 4478 B14                 | B           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 1.843                 | 1.059                | 0.060  |
|                               |             |             | 0'       |         |                    | 1/2" Ice  | 2.012                 | 1.197                | 0.076  |

|   |   |             |                               |
|---|---|-------------|-------------------------------|
| <p><b>tnxTower</b></p> <p><b>B+T Group</b><br/>1717 S. Boulder, Suite 300<br/>Tulsa OK, 74119<br/>Phone: (918) 587-4630<br/>FAX: (918) 295-0265</p> | <b>Job</b>                              | <b>Page</b> |                               |
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|   | <b>Project</b>                          | <b>Date</b> | 16:57:03 05/14/21             |
| <b>Client</b>   | Crown Castle                            |             | <b>Designed by</b><br>Nithesh |

| Description              | Face or Leg | Offset Type | Offsets: |         | Azimuth Adjustment | Placement | C <sub>AA</sub> Front | C <sub>AA</sub> Side | Weight |
|--------------------------|-------------|-------------|----------|---------|--------------------|-----------|-----------------------|----------------------|--------|
|                          |             |             | Horz     | Lateral |                    |           |                       |                      |        |
|                          |             |             | ft       | ft      |                    |           |                       |                      |        |
|                          |             |             |          |         |                    |           |                       |                      |        |
|                          |             |             | 3'       |         |                    |           |                       |                      |        |
|                          |             |             |          |         |                    | 1" Ice    | 2.190                 | 1.342                | 0.094  |
|                          |             |             |          |         |                    | 2" Ice    | 2.566                 | 1.656                | 0.140  |
| RRUS 4478 B14            | C           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 1.843                 | 1.059                | 0.060  |
|                          |             |             | 0'       |         |                    | 1/2" Ice  | 2.012                 | 1.197                | 0.076  |
|                          |             |             | 3'       |         |                    | 1" Ice    | 2.190                 | 1.342                | 0.094  |
|                          |             |             |          |         |                    | 2" Ice    | 2.566                 | 1.656                | 0.140  |
| (2) DBCT108F1V92-1       | A           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 0.637                 | 0.320                | 0.014  |
|                          |             |             | 0'       |         |                    | 1/2" Ice  | 0.740                 | 0.400                | 0.019  |
|                          |             |             | 0'       |         |                    | 1" Ice    | 0.850                 | 0.487                | 0.026  |
|                          |             |             |          |         |                    | 2" Ice    | 1.093                 | 0.690                | 0.045  |
| (2) DBCT108F1V92-1       | B           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 0.637                 | 0.320                | 0.014  |
|                          |             |             | 0'       |         |                    | 1/2" Ice  | 0.740                 | 0.400                | 0.019  |
|                          |             |             | 0'       |         |                    | 1" Ice    | 0.850                 | 0.487                | 0.026  |
|                          |             |             |          |         |                    | 2" Ice    | 1.093                 | 0.690                | 0.045  |
| (2) DBCT108F1V92-1       | C           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 0.637                 | 0.320                | 0.014  |
|                          |             |             | 0'       |         |                    | 1/2" Ice  | 0.740                 | 0.400                | 0.019  |
|                          |             |             | 0'       |         |                    | 1" Ice    | 0.850                 | 0.487                | 0.026  |
|                          |             |             |          |         |                    | 2" Ice    | 1.093                 | 0.690                | 0.045  |
| RRUS 4478 B5             | A           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 1.843                 | 1.059                | 0.060  |
|                          |             |             | 0'       |         |                    | 1/2" Ice  | 2.012                 | 1.197                | 0.076  |
|                          |             |             | 3'       |         |                    | 1" Ice    | 2.190                 | 1.342                | 0.094  |
|                          |             |             |          |         |                    | 2" Ice    | 2.566                 | 1.656                | 0.140  |
| RRUS 4478 B5             | B           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 1.843                 | 1.059                | 0.060  |
|                          |             |             | 0'       |         |                    | 1/2" Ice  | 2.012                 | 1.197                | 0.076  |
|                          |             |             | 3'       |         |                    | 1" Ice    | 2.190                 | 1.342                | 0.094  |
|                          |             |             |          |         |                    | 2" Ice    | 2.566                 | 1.656                | 0.140  |
| RRUS 4478 B5             | C           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 1.843                 | 1.059                | 0.060  |
|                          |             |             | 0'       |         |                    | 1/2" Ice  | 2.012                 | 1.197                | 0.076  |
|                          |             |             | 3'       |         |                    | 1" Ice    | 2.190                 | 1.342                | 0.094  |
|                          |             |             |          |         |                    | 2" Ice    | 2.566                 | 1.656                | 0.140  |
| RRUS 4426 B66            | A           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 1.644                 | 0.725                | 0.048  |
|                          |             |             | 0'       |         |                    | 1/2" Ice  | 1.804                 | 0.842                | 0.061  |
|                          |             |             | 0'       |         |                    | 1" Ice    | 1.972                 | 0.969                | 0.076  |
|                          |             |             |          |         |                    | 2" Ice    | 2.329                 | 1.244                | 0.115  |
| RRUS 4426 B66            | B           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 1.644                 | 0.725                | 0.048  |
|                          |             |             | 0'       |         |                    | 1/2" Ice  | 1.804                 | 0.842                | 0.061  |
|                          |             |             | 0'       |         |                    | 1" Ice    | 1.972                 | 0.969                | 0.076  |
|                          |             |             |          |         |                    | 2" Ice    | 2.329                 | 1.244                | 0.115  |
| RRUS 4426 B66            | C           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 1.644                 | 0.725                | 0.048  |
|                          |             |             | 0'       |         |                    | 1/2" Ice  | 1.804                 | 0.842                | 0.061  |
|                          |             |             | 0'       |         |                    | 1" Ice    | 1.972                 | 0.969                | 0.076  |
|                          |             |             |          |         |                    | 2" Ice    | 2.329                 | 1.244                | 0.115  |
| DC6-48-60-18-8F          | A           | From Leg    | 2.000    | 0.000   | 141'               | No Ice    | 1.212                 | 1.212                | 0.033  |
|                          |             |             | 0'       |         |                    | 1/2" Ice  | 1.892                 | 1.892                | 0.055  |
|                          |             |             | 3'       |         |                    | 1" Ice    | 2.105                 | 2.105                | 0.080  |
|                          |             |             |          |         |                    | 2" Ice    | 2.570                 | 2.570                | 0.138  |
| WCS-IMFQ-AMT             | C           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 0.989                 | 0.644                | 0.030  |
|                          |             |             | 0'       |         |                    | 1/2" Ice  | 1.114                 | 0.748                | 0.039  |
|                          |             |             | 0'       |         |                    | 1" Ice    | 1.246                 | 0.860                | 0.051  |
|                          |             |             |          |         |                    | 2" Ice    | 1.533                 | 1.105                | 0.081  |
| (4) 5'x2.875" Mount Pipe | A           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 1.328                 | 1.328                | 0.018  |
|                          |             |             | 0'       |         |                    | 1/2" Ice  | 1.632                 | 1.632                | 0.029  |
|                          |             |             | 0'       |         |                    | 1" Ice    | 1.946                 | 1.946                | 0.043  |
|                          |             |             |          |         |                    | 2" Ice    | 2.601                 | 2.601                | 0.083  |
| (4) 5'x2.875" Mount Pipe | B           | From Leg    | 4.000    | 0.000   | 141'               | No Ice    | 1.328                 | 1.328                | 0.018  |
|                          |             |             | 0'       |         |                    | 1/2" Ice  | 1.632                 | 1.632                | 0.029  |
|                          |             |             | 0'       |         |                    | 1" Ice    | 1.946                 | 1.946                | 0.043  |

|  |                |   |             |                    |
|--|----------------|---|-------------|--------------------|
| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa OK, 74119<br>Phone: (918) 587-4630<br>FAX: (918) 295-0265 | <b>Job</b>     | 91292.019.01 - MILFORD, CT (BU# 842870) | <b>Page</b> | 16 of 38           |
|  | <b>Project</b> |   | <b>Date</b> | 16:57:03 05/14/21  |
|  | <b>Client</b>  | Crown Castle                            |             | <b>Designed by</b> |

| Description                          | Face or Leg | Offset Type | Offsets: |      | Azimuth Adjustment | Placement | C <sub>AA</sub> Front | C <sub>AA</sub> Side | Weight |       |
|--------------------------------------|-------------|-------------|----------|------|--------------------|-----------|-----------------------|----------------------|--------|-------|
|                                      |             |             | Horz     | Vert |                    |           |                       |                      |        |       |
|                                      |             |             | ft       | ft   | °                  | ft        | ft <sup>2</sup>       | ft <sup>2</sup>      | K      |       |
| (4) 5'x2.875" Mount Pipe             | C           | From Leg    | 4.000    | 0'   | 0.000              | 141'      | 2" Ice                | 2.601                | 2.601  | 0.083 |
|                                      |             |             |          |      |                    |           | No Ice                | 1.328                | 1.328  | 0.018 |
|                                      |             |             |          |      |                    |           | 1/2" Ice              | 1.632                | 1.632  | 0.029 |
|                                      |             |             |          |      |                    |           | 1" Ice                | 1.946                | 1.946  | 0.043 |
| 8' x 2" Mount Pipe                   | A           | From Leg    | 2.000    | 0'   | 0.000              | 141'      | 2" Ice                | 2.601                | 2.601  | 0.083 |
|                                      |             |             |          |      |                    |           | No Ice                | 1.900                | 1.900  | 0.029 |
|                                      |             |             |          |      |                    |           | 1/2" Ice              | 2.728                | 2.728  | 0.044 |
|                                      |             |             |          |      |                    |           | 1" Ice                | 3.401                | 3.401  | 0.063 |
| 8' x 2" Mount Pipe                   | B           | From Leg    | 2.000    | 0'   | 0.000              | 141'      | 2" Ice                | 4.396                | 4.396  | 0.119 |
|                                      |             |             |          |      |                    |           | No Ice                | 1.900                | 1.900  | 0.029 |
|                                      |             |             |          |      |                    |           | 1/2" Ice              | 2.728                | 2.728  | 0.044 |
|                                      |             |             |          |      |                    |           | 1" Ice                | 3.401                | 3.401  | 0.063 |
| 8' x 2" Mount Pipe                   | C           | From Leg    | 2.000    | 0'   | 0.000              | 141'      | 2" Ice                | 4.396                | 4.396  | 0.119 |
|                                      |             |             |          |      |                    |           | No Ice                | 1.900                | 1.900  | 0.029 |
|                                      |             |             |          |      |                    |           | 1/2" Ice              | 2.728                | 2.728  | 0.044 |
|                                      |             |             |          |      |                    |           | 1" Ice                | 3.401                | 3.401  | 0.063 |
| 10.5' x 2.375" horizontal mount pipe | A           | From Leg    | 4.000    | 0'   | 0.000              | 141'      | 2" Ice                | 4.396                | 4.396  | 0.119 |
|                                      |             |             |          |      |                    |           | No Ice                | 2.494                | 2.494  | 0.035 |
|                                      |             |             |          |      |                    |           | 1/2" Ice              | 3.572                | 3.572  | 0.054 |
|                                      |             |             |          |      |                    |           | 1" Ice                | 4.667                | 4.667  | 0.079 |
| 10.5' x 2.375" horizontal mount pipe | B           | From Leg    | 4.000    | 0'   | 0.000              | 141'      | 2" Ice                | 6.317                | 6.317  | 0.151 |
|                                      |             |             |          |      |                    |           | No Ice                | 2.494                | 2.494  | 0.035 |
|                                      |             |             |          |      |                    |           | 1/2" Ice              | 3.572                | 3.572  | 0.054 |
|                                      |             |             |          |      |                    |           | 1" Ice                | 4.667                | 4.667  | 0.079 |
| 10.5' x 2.375" horizontal mount pipe | C           | From Leg    | 4.000    | 0'   | 0.000              | 141'      | 2" Ice                | 6.317                | 6.317  | 0.151 |
|                                      |             |             |          |      |                    |           | No Ice                | 2.494                | 2.494  | 0.035 |
|                                      |             |             |          |      |                    |           | 1/2" Ice              | 3.572                | 3.572  | 0.054 |
|                                      |             |             |          |      |                    |           | 1" Ice                | 4.667                | 4.667  | 0.079 |
| (2) Horizontal Tube Support          | A           | From Leg    | 0.500    | 0'   | 0.000              | 141'      | 2" Ice                | 6.317                | 6.317  | 0.151 |
|                                      |             |             |          |      |                    |           | No Ice                | 1.561                | 1.561  | 0.054 |
|                                      |             |             |          |      |                    |           | 1/2" Ice              | 2.076                | 2.076  | 0.070 |
|                                      |             |             |          |      |                    |           | 1" Ice                | 2.397                | 2.397  | 0.090 |
| (2) Horizontal Tube Support          | B           | From Leg    | 0.500    | 0'   | 0.000              | 141'      | 2" Ice                | 3.067                | 3.067  | 0.141 |
|                                      |             |             |          |      |                    |           | No Ice                | 1.561                | 1.561  | 0.054 |
|                                      |             |             |          |      |                    |           | 1/2" Ice              | 2.076                | 2.076  | 0.070 |
|                                      |             |             |          |      |                    |           | 1" Ice                | 2.397                | 2.397  | 0.090 |
| (2) Horizontal Tube Support          | C           | From Leg    | 0.500    | 0'   | 0.000              | 141'      | 2" Ice                | 3.067                | 3.067  | 0.141 |
|                                      |             |             |          |      |                    |           | No Ice                | 1.561                | 1.561  | 0.054 |
|                                      |             |             |          |      |                    |           | 1/2" Ice              | 2.076                | 2.076  | 0.070 |
|                                      |             |             |          |      |                    |           | 1" Ice                | 2.397                | 2.397  | 0.090 |
| Pipe Mount [PM 601-3]                | C           | None        |          |      | 0.000              | 141'      | 2" Ice                | 3.067                | 3.067  | 0.141 |
|                                      |             |             |          |      |                    |           | No Ice                | 3.170                | 3.170  | 0.195 |
|                                      |             |             |          |      |                    |           | 1/2" Ice              | 3.790                | 3.790  | 0.232 |
|                                      |             |             |          |      |                    |           | 1" Ice                | 4.420                | 4.420  | 0.279 |
| Sector Mount [SM 503-3]              | C           | None        |          |      | 0.000              | 141'      | 2" Ice                | 5.760                | 5.760  | 0.401 |
|                                      |             |             |          |      |                    |           | No Ice                | 30.430               | 30.430 | 1.690 |
|                                      |             |             |          |      |                    |           | 1/2" Ice              | 43.020               | 43.020 | 2.296 |
|                                      |             |             |          |      |                    |           | 1" Ice                | 55.430               | 55.430 | 3.097 |
| *<br>M5160160P10006                  | B           | From Leg    | 2.000    | 0'   | 0.000              | 130'      | 2" Ice                | 79.890               | 79.890 | 5.269 |
|                                      |             |             |          |      |                    |           | No Ice                | 0.850                | 0.210  | 0.002 |
|                                      |             |             |          |      |                    |           | 1/2" Ice              | 1.050                | 0.380  | 0.007 |
|                                      |             |             |          |      |                    |           | 1" Ice                | 1.260                | 0.550  | 0.014 |
| M5160160P10006                       | C           | From Leg    | 2.000    | 0'   | 0.000              | 130'      | 2" Ice                | 1.740                | 0.960  | 0.035 |
|                                      |             |             |          |      |                    |           | No Ice                | 0.850                | 0.210  | 0.002 |
|                                      |             |             |          |      |                    |           | 1/2" Ice              | 1.050                | 0.380  | 0.007 |
|                                      |             |             |          |      |                    |           | 1" Ice                | 1.260                | 0.550  | 0.014 |

|  |   |  |  |  |  |                    |             |  |  |
|--|---|--|--|--|--|--------------------|-------------|--|--|
| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa OK, 74119<br>Phone: (918) 587-4630<br>FAX: (918) 295-0265 | <b>Job</b>                              |  |  |  |  |                    | <b>Page</b> |  |  |
|  | 91292.019.01 - MILFORD, CT (BU# 842870) |  |  |  |  |                    | 17 of 38    |  |  |
|  | <b>Project</b>                          |  |  |  |  |                    | <b>Date</b> |  |  |
|  |   |  |  |  |  | 16:57:03 05/14/21  |             |  |  |
| <b>Client</b>  |   |  |  |  |  | <b>Designed by</b> |             |  |  |
| Crown Castle   |   |  |  |  |  | Nithesh            |             |  |  |

| Description                           | Face or Leg | Offset Type | Offsets: |       | Azimuth Adjustment | Placement | C <sub>AA</sub> Front | C <sub>AA</sub> Side | Weight |
|---------------------------------------|-------------|-------------|----------|-------|--------------------|-----------|-----------------------|----------------------|--------|
|                                       |             |             | Horz     | Vert  |                    |           |                       |                      |        |
|                                       |             |             | ft       | ft    | °                  | ft        | ft <sup>2</sup>       | ft <sup>2</sup>      | K      |
| Side Arm Mount [SO 301-1]             | B           | From Leg    | 1.000    | 0.000 | 130'               | 2" Ice    | 1.740                 | 0.960                | 0.035  |
|                                       |             |             | 0'       | 0'    |                    | No Ice    | 0.460                 | 0.910                | 0.023  |
|                                       |             |             | 0'       | 0'    |                    | 1/2" Ice  | 0.650                 | 1.300                | 0.033  |
|                                       |             |             | 0'       | 0'    |                    | 1" Ice    | 0.870                 | 1.710                | 0.047  |
| Side Arm Mount [SO 301-1]             | C           | From Leg    | 1.000    | 0.000 | 130'               | 2" Ice    | 1.410                 | 2.620                | 0.091  |
|                                       |             |             | 0'       | 0'    |                    | No Ice    | 0.460                 | 0.910                | 0.023  |
|                                       |             |             | 0'       | 0'    |                    | 1/2" Ice  | 0.650                 | 1.300                | 0.033  |
|                                       |             |             | 0'       | 0'    |                    | 1" Ice    | 0.870                 | 1.710                | 0.047  |
| *<br>SC320                            | B           | From Leg    | 4.000    | 0.000 | 118'               | 2" Ice    | 1.410                 | 2.620                | 0.091  |
|                                       |             |             | 0'       | 0'    |                    | No Ice    | 6.380                 | 6.380                | 0.025  |
|                                       |             |             | 0'       | 0'    |                    | 1/2" Ice  | 8.613                 | 8.613                | 0.071  |
|                                       |             |             | 10'      | 10'   |                    | 1" Ice    | 10.862                | 10.862               | 0.131  |
| SC229-SFXLDF                          | C           | From Leg    | 4.000    | 0.000 | 118'               | 2" Ice    | 15.410                | 15.410               | 0.293  |
|                                       |             |             | 0'       | 0'    |                    | No Ice    | 5.950                 | 5.950                | 0.032  |
|                                       |             |             | 0'       | 0'    |                    | 1/2" Ice  | 7.967                 | 7.967                | 0.075  |
|                                       |             |             | 10'      | 10'   |                    | 1" Ice    | 10.000                | 10.000               | 0.130  |
| Side Arm Mount [SO 306-1]             | B           | From Leg    | 2.000    | 0.000 | 118'               | 2" Ice    | 14.117                | 14.117               | 0.279  |
|                                       |             |             | 0'       | 0'    |                    | No Ice    | 0.410                 | 2.260                | 0.042  |
|                                       |             |             | 0'       | 0'    |                    | 1/2" Ice  | 0.810                 | 3.830                | 0.062  |
|                                       |             |             | 0'       | 0'    |                    | 1" Ice    | 1.230                 | 5.480                | 0.094  |
| Side Arm Mount [SO 306-1]             | C           | From Leg    | 2.000    | 0.000 | 118'               | 2" Ice    | 2.080                 | 9.370                | 0.187  |
|                                       |             |             | 0'       | 0'    |                    | No Ice    | 0.410                 | 2.260                | 0.042  |
|                                       |             |             | 0'       | 0'    |                    | 1/2" Ice  | 0.810                 | 3.830                | 0.062  |
|                                       |             |             | 0'       | 0'    |                    | 1" Ice    | 1.230                 | 5.480                | 0.094  |
| 10' x 2.375" Horizontal Mount Pipe    | B           | From Face   | 1.000    | 0.000 | 118'               | 2" Ice    | 2.080                 | 9.370                | 0.187  |
|                                       |             |             | 0'       | 0'    |                    | No Ice    | 2.375                 | 0.061                | 0.040  |
|                                       |             |             | 0'       | 0'    |                    | 1/2" Ice  | 3.403                 | 0.124                | 0.058  |
|                                       |             |             | 0'       | 0'    |                    | 1" Ice    | 4.448                 | 0.209                | 0.082  |
| 10' x 2.375" Horizontal Mount Pipe    | C           | From Face   | 1.000    | 0.000 | 118'               | 2" Ice    | 5.911                 | 0.443                | 0.151  |
|                                       |             |             | 0'       | 0'    |                    | No Ice    | 2.375                 | 0.061                | 0.040  |
|                                       |             |             | 0'       | 0'    |                    | 1/2" Ice  | 3.403                 | 0.124                | 0.058  |
|                                       |             |             | 0'       | 0'    |                    | 1" Ice    | 4.448                 | 0.209                | 0.082  |
| *<br>AIR6449 B41 w/ Mount Pipe        | A           | From Leg    | 4.000    | 0.000 | 114'               | 2" Ice    | 5.911                 | 0.443                | 0.151  |
|                                       |             |             | 0'       | 0'    |                    | No Ice    | 5.180                 | 2.720                | 0.118  |
|                                       |             |             | 0'       | 0'    |                    | 1/2" Ice  | 5.590                 | 3.050                | 0.164  |
|                                       |             |             | 0'       | 0'    |                    | 1" Ice    | 6.010                 | 3.390                | 0.216  |
| AIR6449 B41 w/ Mount Pipe             | B           | From Leg    | 4.000    | 0.000 | 114'               | 2" Ice    | 6.900                 | 4.130                | 0.344  |
|                                       |             |             | 0'       | 0'    |                    | No Ice    | 5.180                 | 2.720                | 0.118  |
|                                       |             |             | 0'       | 0'    |                    | 1/2" Ice  | 5.590                 | 3.050                | 0.164  |
|                                       |             |             | 0'       | 0'    |                    | 1" Ice    | 6.010                 | 3.390                | 0.216  |
| AIR6449 B41 w/ Mount Pipe             | C           | From Leg    | 4.000    | 0.000 | 114'               | 2" Ice    | 6.900                 | 4.130                | 0.344  |
|                                       |             |             | 0'       | 0'    |                    | No Ice    | 5.180                 | 2.720                | 0.118  |
|                                       |             |             | 0'       | 0'    |                    | 1/2" Ice  | 5.590                 | 3.050                | 0.164  |
|                                       |             |             | 0'       | 0'    |                    | 1" Ice    | 6.010                 | 3.390                | 0.216  |
| ERICSSON AIR 21 B2A B4P w/ Mount Pipe | A           | From Leg    | 4.000    | 0.000 | 114'               | 2" Ice    | 6.900                 | 4.130                | 0.344  |
|                                       |             |             | 0'       | 0'    |                    | No Ice    | 3.140                 | 2.590                | 0.112  |
|                                       |             |             | -2'      | -2'   |                    | 1/2" Ice  | 3.450                 | 2.880                | 0.164  |
|                                       |             |             | -2'      | -2'   |                    | 1" Ice    | 3.770                 | 3.190                | 0.225  |
| ERICSSON AIR 21 B2A B4P w/ Mount Pipe | B           | From Leg    | 4.000    | 0.000 | 114'               | 2" Ice    | 4.430                 | 3.840                | 0.375  |
|                                       |             |             | 0'       | 0'    |                    | No Ice    | 3.140                 | 2.590                | 0.112  |
|                                       |             |             | -2'      | -2'   |                    | 1/2" Ice  | 3.450                 | 2.880                | 0.164  |
|                                       |             |             | -2'      | -2'   |                    | 1" Ice    | 3.770                 | 3.190                | 0.225  |
| ERICSSON AIR 21 B2A B4P w/ Mount Pipe | C           | From Leg    | 4.000    | 0.000 | 114'               | 2" Ice    | 4.430                 | 3.840                | 0.375  |
|                                       |             |             | 0'       | 0'    |                    | No Ice    | 3.140                 | 2.590                | 0.112  |
|                                       |             |             |          |       |                    | 1/2" Ice  | 3.450                 | 2.880                | 0.164  |

|  |   |                                  |
|--|---|----------------------------------|
| <b><i>tnxTower</i></b><br><br><b><i>B+T Group</i></b><br>1717 S. Boulder, Suite 300<br>Tulsa OK, 74119<br>Phone: (918) 587-4630<br>FAX: (918) 295-0265 | <b>Job</b><br>91292.019.01 - MILFORD, CT (BU# 842870) | <b>Page</b><br>18 of 38          |
|  | <b>Project</b>  | <b>Date</b><br>16:57:03 05/14/21 |
|  | <b>Client</b><br>Crown Castle                         | <b>Designed by</b><br>Nithesh    |

| Description                        | Face or Leg | Offset Type | Offsets:        |         | Azimuth Adjustment ° | Placement ft                                      | C <sub>AA</sub> Front ft <sup>2</sup> | C <sub>AA</sub> Side ft <sup>2</sup> | Weight K |
|------------------------------------|-------------|-------------|-----------------|---------|----------------------|---|---------------------------------------|--------------------------------------|----------|
|                                    |             |             | Horz Lateral ft | Vert ft |                      |   |                                       |                                      |          |
|                                    |             |             |                 |         |                      |   |                                       |                                      |          |
|                                    |             |             |                 |         |                      |   |                                       |                                      |          |
|                                    |             |             |                 |         |                      |   |                                       |                                      |          |
|                                    |             |             |                 |         |                      |   |                                       |                                      |          |
|                                    |             |             |                 |         |                      |   |                                       |                                      |          |
|                                    |             |             |                 |         |                      |   |                                       |                                      |          |
|                                    |             |             |                 |         |                      |   |                                       |                                      |          |
| APXVAARR24_43-U-NA20 w/ Mount Pipe | A           | From Leg    | 4.000           | 0.000   | 114'                 | 1" Ice 3.770<br>2" Ice 4.430<br>No Ice 14.690     | 3.190<br>3.840<br>6.870               | 0.225<br>0.375<br>0.186              |          |
|                                    |             |             | 0'              |         |                      | 1/2" Ice 15.460<br>1" Ice 16.230                  | 7.550<br>8.250                        | 0.315<br>0.458                       |          |
|                                    |             |             | -2'             |         |                      | 2" Ice 17.820<br>No Ice 14.690                    | 9.670<br>6.870                        | 0.788<br>0.186                       |          |
| APXVAARR24_43-U-NA20 w/ Mount Pipe | B           | From Leg    | 4.000           | 0.000   | 114'                 | No Ice 14.690<br>1/2" Ice 15.460<br>1" Ice 16.230 | 6.870<br>7.550<br>8.250               | 0.186<br>0.315<br>0.458              |          |
|                                    |             |             | 0'              |         |                      | 2" Ice 17.820<br>No Ice 14.690                    | 9.670<br>6.870                        | 0.788<br>0.186                       |          |
|                                    |             |             | -2'             |         |                      | 1/2" Ice 15.460<br>1" Ice 16.230                  | 7.550<br>8.250                        | 0.315<br>0.458                       |          |
| APXVAARR24_43-U-NA20 w/ Mount Pipe | C           | From Leg    | 4.000           | 0.000   | 114'                 | 2" Ice 17.820<br>No Ice 14.690                    | 9.670<br>6.870                        | 0.788<br>0.186                       |          |
|                                    |             |             | 0'              |         |                      | 1/2" Ice 15.460<br>1" Ice 16.230                  | 7.550<br>8.250                        | 0.315<br>0.458                       |          |
|                                    |             |             | -2'             |         |                      | 2" Ice 17.820<br>No Ice 3.760                     | 9.670<br>3.150                        | 0.788<br>0.194                       |          |
| AIR 32 B2A/B66AA w/ Mount Pipe     | A           | From Leg    | 4.000           | 0.000   | 114'                 | 1/2" Ice 4.120<br>1" Ice 4.480<br>2" Ice 5.240    | 3.490<br>3.840<br>4.580               | 0.252<br>0.320<br>0.485              |          |
|                                    |             |             | 0'              |         |                      | No Ice 3.760<br>1/2" Ice 4.120                    | 3.150<br>3.490                        | 0.194<br>0.252                       |          |
|                                    |             |             | -2'             |         |                      | 1" Ice 4.480<br>2" Ice 5.240                      | 3.840<br>4.580                        | 0.320<br>0.485                       |          |
| AIR 32 B2A/B66AA w/ Mount Pipe     | B           | From Leg    | 4.000           | 0.000   | 114'                 | No Ice 3.760<br>1/2" Ice 4.120<br>1" Ice 4.480    | 3.150<br>3.490<br>3.840               | 0.194<br>0.252<br>0.320              |          |
|                                    |             |             | 0'              |         |                      | 2" Ice 5.240<br>No Ice 3.760                      | 4.580<br>3.150                        | 0.485<br>0.194                       |          |
|                                    |             |             | -2'             |         |                      | 1/2" Ice 4.120<br>1" Ice 4.480                    | 3.490<br>3.840                        | 0.252<br>0.320                       |          |
| AIR 32 B2A/B66AA w/ Mount Pipe     | C           | From Leg    | 4.000           | 0.000   | 114'                 | 2" Ice 5.240<br>No Ice 3.760                      | 4.580<br>3.150                        | 0.485<br>0.194                       |          |
|                                    |             |             | 0'              |         |                      | 1/2" Ice 4.120<br>1" Ice 4.480                    | 3.490<br>3.840                        | 0.252<br>0.320                       |          |
|                                    |             |             | -2'             |         |                      | 2" Ice 5.240<br>No Ice 0.583                      | 4.580<br>0.398                        | 0.485<br>0.013                       |          |
| KRY 112 71                         | A           | From Leg    | 4.000           | 0.000   | 114'                 | 1/2" Ice 0.688<br>1" Ice 0.799<br>2" Ice 1.045    | 0.488<br>0.586<br>0.805               | 0.018<br>0.025<br>0.044              |          |
|                                    |             |             | 0'              |         |                      | No Ice 0.583<br>1/2" Ice 0.688                    | 0.398<br>0.488                        | 0.013<br>0.018                       |          |
|                                    |             |             | -2'             |         |                      | 1" Ice 0.799<br>2" Ice 1.045                      | 0.586<br>0.805                        | 0.025<br>0.044                       |          |
| KRY 112 71                         | B           | From Leg    | 4.000           | 0.000   | 114'                 | No Ice 0.583<br>1/2" Ice 0.688<br>1" Ice 0.799    | 0.398<br>0.488<br>0.586               | 0.013<br>0.018<br>0.025              |          |
|                                    |             |             | 0'              |         |                      | 2" Ice 1.045<br>No Ice 0.583                      | 0.805<br>0.398                        | 0.044<br>0.013                       |          |
|                                    |             |             | -2'             |         |                      | 1/2" Ice 0.688<br>1" Ice 0.799                    | 0.488<br>0.586                        | 0.018<br>0.025                       |          |
| KRY 112 71                         | C           | From Leg    | 4.000           | 0.000   | 114'                 | 2" Ice 1.045<br>No Ice 0.583                      | 0.805<br>0.398                        | 0.044<br>0.013                       |          |
|                                    |             |             | 0'              |         |                      | 1/2" Ice 0.688<br>1" Ice 0.799                    | 0.488<br>0.586                        | 0.018<br>0.025                       |          |
|                                    |             |             | -2'             |         |                      | 2" Ice 1.045<br>No Ice 1.843                      | 0.805<br>0.820                        | 0.044<br>0.046                       |          |
| RRUS 4415 B25_CCIV2                | A           | From Leg    | 4.000           | 0.000   | 114'                 | 1/2" Ice 2.012<br>1" Ice 2.190<br>2" Ice 2.566    | 0.943<br>1.075<br>1.368               | 0.060<br>0.077<br>0.118              |          |
|                                    |             |             | 0'              |         |                      | No Ice 1.843<br>1/2" Ice 2.012                    | 0.820<br>0.943                        | 0.046<br>0.060                       |          |
|                                    |             |             | 0'              |         |                      | 1" Ice 2.190<br>2" Ice 2.566                      | 1.075<br>1.368                        | 0.077<br>0.118                       |          |
| RRUS 4415 B25_CCIV2                | B           | From Leg    | 4.000           | 0.000   | 114'                 | No Ice 1.843<br>1/2" Ice 2.012<br>1" Ice 2.190    | 0.820<br>0.943<br>1.075               | 0.046<br>0.060<br>0.077              |          |
|                                    |             |             | 0'              |         |                      | 2" Ice 2.566<br>No Ice 1.843                      | 1.368<br>0.820                        | 0.118<br>0.046                       |          |
|                                    |             |             | 0'              |         |                      | 1/2" Ice 2.012<br>1" Ice 2.190                    | 0.943<br>1.075                        | 0.060<br>0.077                       |          |
| RRUS 4415 B25_CCIV2                | C           | From Leg    | 4.000           | 0.000   | 114'                 | 2" Ice 2.566<br>No Ice 1.843                      | 1.368<br>0.820                        | 0.118<br>0.046                       |          |
|                                    |             |             | 0'              |         |                      | 1/2" Ice 2.012<br>1" Ice 2.190                    | 0.943<br>1.075                        | 0.060<br>0.077                       |          |
|                                    |             |             | 0'              |         |                      | 2" Ice 2.566<br>No Ice 1.970                      | 1.368<br>1.587                        | 0.118<br>0.073                       |          |
| RADIO 4449 B71 B85A_T-MOBILE       | A           | From Leg    | 4.000           | 0.000   | 114'                 | 1/2" Ice 2.147<br>1" Ice 2.331<br>2" Ice 2.721    | 1.749<br>1.918<br>2.280               | 0.093<br>0.116<br>0.170              |          |
|                                    |             |             | 0'              |         |                      | No Ice 1.970<br>1/2" Ice 2.147                    | 1.587<br>1.749                        | 0.073<br>0.093                       |          |
|                                    |             |             | 0'              |         |                      | 1" Ice 2.331<br>2" Ice 2.721                      | 1.918<br>2.280                        | 0.116<br>0.170                       |          |
| RADIO 4449 B71 B85A_T-MOBILE       | B           | From Leg    | 4.000           | 0.000   | 114'                 | No Ice 1.970<br>1/2" Ice 2.147<br>1" Ice 2.331    | 1.587<br>1.749<br>1.918               | 0.073<br>0.093<br>0.116              |          |



|  |                |   |             |                    |
|--|----------------|---|-------------|--------------------|
| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa OK, 74119<br>Phone: (918) 587-4630<br>FAX: (918) 295-0265 | <b>Job</b>     | 91292.019.01 - MILFORD, CT (BU# 842870) | <b>Page</b> | 19 of 38           |
|  | <b>Project</b> |   | <b>Date</b> | 16:57:03 05/14/21  |
|  | <b>Client</b>  | Crown Castle                            |             | <b>Designed by</b> |

| Description                       | Face or Leg | Offset Type | Offsets: |         | Azimuth Adjustment | Placement | C <sub>AA</sub> Front | C <sub>AA</sub> Side | Weight |
|-----------------------------------|-------------|-------------|----------|---------|--------------------|-----------|-----------------------|----------------------|--------|
|                                   |             |             | Horz     | Lateral |                    |           |                       |                      |        |
| RADIO 4449 B71<br>B85A_T-MOBILE   | C           | From Leg    | 4.000    | 0.000   | 114'               | 2" Ice    | 2.721                 | 2.280                | 0.170  |
|                                   |             |             |          |         |                    | No Ice    | 1.970                 | 1.587                | 0.073  |
|                                   |             |             |          |         |                    | 1/2" Ice  | 2.147                 | 1.749                | 0.093  |
|                                   |             |             |          |         |                    | 1" Ice    | 2.331                 | 1.918                | 0.116  |
| (2) L 2.5x2.5x3/16x6'             | A           | From Leg    | 2.000    | 0.000   | 114'               | 2" Ice    | 2.721                 | 2.280                | 0.170  |
|                                   |             |             |          |         |                    | No Ice    | 1.500                 | 0.005                | 0.025  |
|                                   |             |             |          |         |                    | 1/2" Ice  | 1.918                 | 0.024                | 0.034  |
|                                   |             |             |          |         |                    | 1" Ice    | 2.343                 | 0.049                | 0.048  |
| (2) L 2.5x2.5x3/16x6'             | B           | From Leg    | 2.000    | 0.000   | 114'               | 2" Ice    | 3.215                 | 0.123                | 0.091  |
|                                   |             |             |          |         |                    | No Ice    | 1.500                 | 0.005                | 0.025  |
|                                   |             |             |          |         |                    | 1/2" Ice  | 1.918                 | 0.024                | 0.034  |
|                                   |             |             |          |         |                    | 1" Ice    | 2.343                 | 0.049                | 0.048  |
| (2) L 2.5x2.5x3/16x6'             | C           | From Leg    | 2.000    | 0.000   | 114'               | 2" Ice    | 3.215                 | 0.123                | 0.091  |
|                                   |             |             |          |         |                    | No Ice    | 1.500                 | 0.005                | 0.025  |
|                                   |             |             |          |         |                    | 1/2" Ice  | 1.918                 | 0.024                | 0.034  |
|                                   |             |             |          |         |                    | 1" Ice    | 2.343                 | 0.049                | 0.048  |
| Sector Mount [SM 307-3]           | C           | None        | 0.000    | 114'    | 2" Ice             | 3.215     | 0.123                 | 0.091                |        |
|                                   |             |             |          |         | No Ice             | 26.180    | 26.180                | 1.620                |        |
|                                   |             |             |          |         | 1/2" Ice           | 35.720    | 35.720                | 2.113                |        |
|                                   |             |             |          |         | 1" Ice             | 45.160    | 45.160                | 2.761                |        |
| *<br>800MHZ 2X50W RRH<br>W/FILTER | A           | From Leg    | 2.000    | 0.000   | 103'               | 2" Ice    | 63.920                | 63.920               | 4.520  |
|                                   |             |             |          |         |                    | No Ice    | 2.058                 | 1.932                | 0.064  |
|                                   |             |             |          |         |                    | 1/2" Ice  | 2.240                 | 2.109                | 0.086  |
|                                   |             |             |          |         |                    | 1" Ice    | 2.429                 | 2.293                | 0.111  |
| 800MHZ 2X50W RRH<br>W/FILTER      | B           | From Leg    | 2.000    | 0.000   | 103'               | 2" Ice    | 2.829                 | 2.684                | 0.172  |
|                                   |             |             |          |         |                    | No Ice    | 2.058                 | 1.932                | 0.064  |
|                                   |             |             |          |         |                    | 1/2" Ice  | 2.240                 | 2.109                | 0.086  |
|                                   |             |             |          |         |                    | 1" Ice    | 2.429                 | 2.293                | 0.111  |
| 800MHZ 2X50W RRH<br>W/FILTER      | C           | From Leg    | 2.000    | 0.000   | 103'               | 2" Ice    | 2.829                 | 2.684                | 0.172  |
|                                   |             |             |          |         |                    | No Ice    | 2.058                 | 1.932                | 0.064  |
|                                   |             |             |          |         |                    | 1/2" Ice  | 2.240                 | 2.109                | 0.086  |
|                                   |             |             |          |         |                    | 1" Ice    | 2.429                 | 2.293                | 0.111  |
| PCS 1900MHZ 2X40W                 | A           | From Leg    | 2.000    | 0.000   | 103'               | 2" Ice    | 2.829                 | 2.684                | 0.172  |
|                                   |             |             |          |         |                    | No Ice    | 2.351                 | 1.278                | 0.044  |
|                                   |             |             |          |         |                    | 1/2" Ice  | 2.547                 | 1.434                | 0.062  |
|                                   |             |             |          |         |                    | 1" Ice    | 2.751                 | 1.598                | 0.084  |
| PCS 1900MHZ 2X40W                 | B           | From Leg    | 2.000    | 0.000   | 103'               | 2" Ice    | 3.181                 | 1.946                | 0.135  |
|                                   |             |             |          |         |                    | No Ice    | 2.351                 | 1.278                | 0.044  |
|                                   |             |             |          |         |                    | 1/2" Ice  | 2.547                 | 1.434                | 0.062  |
|                                   |             |             |          |         |                    | 1" Ice    | 2.751                 | 1.598                | 0.084  |
| PCS 1900MHZ 2X40W                 | C           | From Leg    | 2.000    | 0.000   | 103'               | 2" Ice    | 3.181                 | 1.946                | 0.135  |
|                                   |             |             |          |         |                    | No Ice    | 2.351                 | 1.278                | 0.044  |
|                                   |             |             |          |         |                    | 1/2" Ice  | 2.547                 | 1.434                | 0.062  |
|                                   |             |             |          |         |                    | 1" Ice    | 2.751                 | 1.598                | 0.084  |
| (2) 4' x 2" Pipe Mount            | A           | From Leg    | 1.000    | 0.000   | 103'               | 2" Ice    | 3.181                 | 1.946                | 0.135  |
|                                   |             |             |          |         |                    | No Ice    | 0.785                 | 0.785                | 0.029  |
|                                   |             |             |          |         |                    | 1/2" Ice  | 1.028                 | 1.028                | 0.035  |
|                                   |             |             |          |         |                    | 1" Ice    | 1.281                 | 1.281                | 0.044  |
| (2) 4' x 2" Pipe Mount            | B           | From Leg    | 1.000    | 0.000   | 103'               | 2" Ice    | 1.814                 | 1.814                | 0.072  |
|                                   |             |             |          |         |                    | No Ice    | 0.785                 | 0.785                | 0.029  |
|                                   |             |             |          |         |                    | 1/2" Ice  | 1.028                 | 1.028                | 0.035  |
|                                   |             |             |          |         |                    | 1" Ice    | 1.281                 | 1.281                | 0.044  |
| (2) 4' x 2" Pipe Mount            | C           | From Leg    | 1.000    | 0.000   | 103'               | 2" Ice    | 1.814                 | 1.814                | 0.072  |
|                                   |             |             |          |         |                    | No Ice    | 0.785                 | 0.785                | 0.029  |
|                                   |             |             |          |         |                    | 1/2" Ice  | 1.028                 | 1.028                | 0.035  |
|                                   |             |             |          |         |                    | 1" Ice    | 1.281                 | 1.281                | 0.044  |

|  |                |   |             |                    |
|--|----------------|---|-------------|--------------------|
| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa OK, 74119<br>Phone: (918) 587-4630<br>FAX: (918) 295-0265 | <b>Job</b>     | 91292.019.01 - MILFORD, CT (BU# 842870) | <b>Page</b> | 20 of 38           |
|  | <b>Project</b> |   | <b>Date</b> | 16:57:03 05/14/21  |
|  | <b>Client</b>  | Crown Castle                            |             | <b>Designed by</b> |

| Description                           | Face or Leg | Offset Type | Offsets:           |         | Azimuth Adjustment | Placement | C <sub>AA</sub> Front  | C <sub>AA</sub> Side                      | Weight                                    |
|---------------------------------------|-------------|-------------|--------------------|---------|--------------------|-----------|--|---|---|
|                                       |             |             | Horz               | Lateral |                    |           |  |   |   |
| Pipe Mount [PM 601-3]                 | C           | None        |                    |         | 0.000              | 103'      | 2" Ice 1.814<br>No Ice 3.170<br>1/2" Ice 3.790<br>1" Ice 4.420<br>2" Ice 5.760 | 1.814<br>3.170<br>3.790<br>4.420<br>5.760 | 0.072<br>0.195<br>0.232<br>0.279<br>0.401 |
| *<br>DT465B-2XR w/ Mount Pipe         | A           | From Leg    | 4.000<br>0'<br>0'  |         | 0.000              | 100'      | No Ice 5.500<br>1/2" Ice 5.970<br>1" Ice 6.450<br>2" Ice 7.440                 | 4.380<br>4.840<br>5.300<br>6.260          | 0.091<br>0.164<br>0.248<br>0.451          |
| DT465B-2XR w/ Mount Pipe              | B           | From Leg    | 4.000<br>0'<br>0'  |         | 0.000              | 100'      | No Ice 5.500<br>1/2" Ice 5.970<br>1" Ice 6.450<br>2" Ice 7.440                 | 4.380<br>4.840<br>5.300<br>6.260          | 0.091<br>0.164<br>0.248<br>0.451          |
| DT465B-2XR w/ Mount Pipe              | C           | From Leg    | 4.000<br>0'<br>0'  |         | 0.000              | 100'      | No Ice 5.500<br>1/2" Ice 5.970<br>1" Ice 6.450<br>2" Ice 7.440                 | 4.380<br>4.840<br>5.300<br>6.260          | 0.091<br>0.164<br>0.248<br>0.451          |
| APXVSPP18-C-A20 w/<br>Mount Pipe      | A           | From Leg    | 4.000<br>0'<br>0'  |         | 0.000              | 100'      | No Ice 4.600<br>1/2" Ice 5.050<br>1" Ice 5.500<br>2" Ice 6.440                 | 4.010<br>4.450<br>4.890<br>5.820          | 0.095<br>0.160<br>0.235<br>0.419          |
| APXVSPP18-C-A20 w/<br>Mount Pipe      | B           | From Leg    | 4.000<br>0'<br>0'  |         | 0.000              | 100'      | No Ice 4.600<br>1/2" Ice 5.050<br>1" Ice 5.500<br>2" Ice 6.440                 | 4.010<br>4.450<br>4.890<br>5.820          | 0.095<br>0.160<br>0.235<br>0.419          |
| APXVSPP18-C-A20 w/<br>Mount Pipe      | C           | From Leg    | 4.000<br>0'<br>0'  |         | 0.000              | 100'      | No Ice 4.600<br>1/2" Ice 5.050<br>1" Ice 5.500<br>2" Ice 6.440                 | 4.010<br>4.450<br>4.890<br>5.820          | 0.095<br>0.160<br>0.235<br>0.419          |
| RRH2X50-800                           | A           | From Leg    | 4.000<br>0'<br>-3' |         | 0.000              | 100'      | No Ice 1.701<br>1/2" Ice 1.864<br>1" Ice 2.035<br>2" Ice 2.398                 | 1.282<br>1.428<br>1.580<br>1.908          | 0.053<br>0.070<br>0.090<br>0.138          |
| RRH2X50-800                           | B           | From Leg    | 4.000<br>0'<br>-3' |         | 0.000              | 100'      | No Ice 1.701<br>1/2" Ice 1.864<br>1" Ice 2.035<br>2" Ice 2.398                 | 1.282<br>1.428<br>1.580<br>1.908          | 0.053<br>0.070<br>0.090<br>0.138          |
| RRH2X50-800                           | C           | From Leg    | 4.000<br>0'<br>-3' |         | 0.000              | 100'      | No Ice 1.701<br>1/2" Ice 1.864<br>1" Ice 2.035<br>2" Ice 2.398                 | 1.282<br>1.428<br>1.580<br>1.908          | 0.053<br>0.070<br>0.090<br>0.138          |
| TD-RRH8X20-25                         | A           | From Leg    | 4.000<br>0'<br>3'  |         | 0.000              | 100'      | No Ice 4.045<br>1/2" Ice 4.298<br>1" Ice 4.557<br>2" Ice 5.098                 | 1.535<br>1.714<br>1.901<br>2.295          | 0.070<br>0.097<br>0.128<br>0.201          |
| TD-RRH8X20-25                         | B           | From Leg    | 4.000<br>0'<br>3'  |         | 0.000              | 100'      | No Ice 4.045<br>1/2" Ice 4.298<br>1" Ice 4.557<br>2" Ice 5.098                 | 1.535<br>1.714<br>1.901<br>2.295          | 0.070<br>0.097<br>0.128<br>0.201          |
| TD-RRH8X20-25                         | C           | From Leg    | 4.000<br>0'<br>3'  |         | 0.000              | 100'      | No Ice 4.045<br>1/2" Ice 4.298<br>1" Ice 4.557<br>2" Ice 5.098                 | 1.535<br>1.714<br>1.901<br>2.295          | 0.070<br>0.097<br>0.128<br>0.201          |
| 10' x 2.375" Horizontal<br>Mount Pipe | A           | From Leg    | 4.000<br>0'<br>0'  |         | 0.000              | 100'      | No Ice 2.375<br>1/2" Ice 3.403<br>1" Ice 4.448                                 | 0.061<br>0.124<br>0.209                   | 0.040<br>0.058<br>0.082                   |

|  |                |   |             |                    |
|--|----------------|---|-------------|--------------------|
| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa OK, 74119<br>Phone: (918) 587-4630<br>FAX: (918) 295-0265 | <b>Job</b>     | 91292.019.01 - MILFORD, CT (BU# 842870) | <b>Page</b> | 21 of 38           |
|  | <b>Project</b> |   | <b>Date</b> | 16:57:03 05/14/21  |
|  | <b>Client</b>  | Crown Castle                            |             | <b>Designed by</b> |

| Description                          | Face or Leg | Offset Type | Offsets: |         | Azimuth Adjustment | Placement | C <sub>AA</sub> Front | C <sub>AA</sub> Side | Weight |       |
|--------------------------------------|-------------|-------------|----------|---------|--------------------|-----------|-----------------------|----------------------|--------|-------|
|                                      |             |             | Horz     | Lateral |                    |           |                       |                      |        | Vert  |
| 10' x 2.375" Horizontal Mount Pipe   | B           | From Leg    | 4.000    | 0'      | 0.000              | 100'      | 2" Ice                | 5.911                | 0.443  | 0.151 |
|                                      |             |             |          |         |                    |           | No Ice                | 2.375                | 0.061  | 0.040 |
|                                      |             |             |          |         |                    |           | 1/2" Ice              | 3.403                | 0.124  | 0.058 |
|                                      |             |             |          |         |                    |           | 1" Ice                | 4.448                | 0.209  | 0.082 |
| 10' x 2.375" Horizontal Mount Pipe   | C           | From Leg    | 4.000    | 0'      | 0.000              | 100'      | 2" Ice                | 5.911                | 0.443  | 0.151 |
|                                      |             |             |          |         |                    |           | No Ice                | 2.375                | 0.061  | 0.040 |
|                                      |             |             |          |         |                    |           | 1/2" Ice              | 3.403                | 0.124  | 0.058 |
|                                      |             |             |          |         |                    |           | 1" Ice                | 4.448                | 0.209  | 0.082 |
| Sector Mount [SM 406-3]              | C           | None        |          |         | 0.000              | 100'      | 2" Ice                | 5.911                | 0.443  | 0.151 |
|                                      |             |             |          |         |                    |           | No Ice                | 19.760               | 19.760 | 0.923 |
|                                      |             |             |          |         |                    |           | 1/2" Ice              | 29.240               | 29.240 | 1.311 |
|                                      |             |             |          |         |                    |           | 1" Ice                | 38.800               | 38.800 | 1.845 |
|                                      |             |             |          |         |                    |           | 2" Ice                | 58.910               | 58.910 | 3.330 |
| *<br>(2) LPA-80063/4CF w/ Mount Pipe | A           | From Leg    | 4.000    | 0'      | 0.000              | 88'       | No Ice                | 6.385                | 6.603  | 0.038 |
|                                      |             |             |          |         |                    |           | 1/2" Ice              | 6.784                | 7.232  | 0.104 |
|                                      |             |             |          |         |                    |           | 1" Ice                | 7.192                | 7.876  | 0.176 |
|                                      |             |             |          |         |                    |           | 2" Ice                | 8.035                | 9.214  | 0.344 |
| (2) LPA-80063/4CF w/ Mount Pipe      | B           | From Leg    | 4.000    | 0'      | 0.000              | 88'       | No Ice                | 6.385                | 6.603  | 0.038 |
|                                      |             |             |          |         |                    |           | 1/2" Ice              | 6.784                | 7.232  | 0.104 |
|                                      |             |             |          |         |                    |           | 1" Ice                | 7.192                | 7.876  | 0.176 |
|                                      |             |             |          |         |                    |           | 2" Ice                | 8.035                | 9.214  | 0.344 |
| (2) LPA-80063/4CF w/ Mount Pipe      | C           | From Leg    | 4.000    | 0'      | 0.000              | 88'       | No Ice                | 6.385                | 6.603  | 0.038 |
|                                      |             |             |          |         |                    |           | 1/2" Ice              | 6.784                | 7.232  | 0.104 |
|                                      |             |             |          |         |                    |           | 1" Ice                | 7.192                | 7.876  | 0.176 |
|                                      |             |             |          |         |                    |           | 2" Ice                | 8.035                | 9.214  | 0.344 |
| (2) MX06FRO660-03 w/ Mount Pipe      | A           | From Leg    | 4.000    | 0'      | 0.000              | 88'       | No Ice                | 6.540                | 5.550  | 0.103 |
|                                      |             |             |          |         |                    |           | 1/2" Ice              | 7.060                | 6.050  | 0.185 |
|                                      |             |             |          |         |                    |           | 1" Ice                | 7.600                | 6.570  | 0.277 |
|                                      |             |             |          |         |                    |           | 2" Ice                | 8.700                | 7.650  | 0.496 |
| (2) MX06FRO660-03 w/ Mount Pipe      | B           | From Leg    | 4.000    | 0'      | 0.000              | 88'       | No Ice                | 6.540                | 5.550  | 0.103 |
|                                      |             |             |          |         |                    |           | 1/2" Ice              | 7.060                | 6.050  | 0.185 |
|                                      |             |             |          |         |                    |           | 1" Ice                | 7.600                | 6.570  | 0.277 |
|                                      |             |             |          |         |                    |           | 2" Ice                | 8.700                | 7.650  | 0.496 |
| (2) MX06FRO660-03 w/ Mount Pipe      | C           | From Leg    | 4.000    | 0'      | 0.000              | 88'       | No Ice                | 6.540                | 5.550  | 0.103 |
|                                      |             |             |          |         |                    |           | 1/2" Ice              | 7.060                | 6.050  | 0.185 |
|                                      |             |             |          |         |                    |           | 1" Ice                | 7.600                | 6.570  | 0.277 |
|                                      |             |             |          |         |                    |           | 2" Ice                | 8.700                | 7.650  | 0.496 |
| MT6407-77A w/ Mount Pipe             | A           | From Leg    | 4.000    | 0'      | 0.000              | 88'       | No Ice                | 4.907                | 2.682  | 0.096 |
|                                      |             |             |          |         |                    |           | 1/2" Ice              | 5.256                | 3.145  | 0.136 |
|                                      |             |             |          |         |                    |           | 1" Ice                | 5.615                | 3.624  | 0.180 |
|                                      |             |             |          |         |                    |           | 2" Ice                | 6.362                | 4.631  | 0.288 |
| MT6407-77A w/ Mount Pipe             | B           | From Leg    | 4.000    | 0'      | 0.000              | 88'       | No Ice                | 4.907                | 2.682  | 0.096 |
|                                      |             |             |          |         |                    |           | 1/2" Ice              | 5.256                | 3.145  | 0.136 |
|                                      |             |             |          |         |                    |           | 1" Ice                | 5.615                | 3.624  | 0.180 |
|                                      |             |             |          |         |                    |           | 2" Ice                | 6.362                | 4.631  | 0.288 |
| MT6407-77A w/ Mount Pipe             | C           | From Leg    | 4.000    | 0'      | 0.000              | 88'       | No Ice                | 4.907                | 2.682  | 0.096 |
|                                      |             |             |          |         |                    |           | 1/2" Ice              | 5.256                | 3.145  | 0.136 |
|                                      |             |             |          |         |                    |           | 1" Ice                | 5.615                | 3.624  | 0.180 |
|                                      |             |             |          |         |                    |           | 2" Ice                | 6.362                | 4.631  | 0.288 |
| RFV01U-D1A                           | A           | From Leg    | 4.000    | 0'      | 0.000              | 88'       | No Ice                | 1.875                | 1.250  | 0.084 |
|                                      |             |             |          |         |                    |           | 1/2" Ice              | 2.045                | 1.393  | 0.103 |
|                                      |             |             |          |         |                    |           | 1" Ice                | 2.223                | 1.543  | 0.124 |
|                                      |             |             |          |         |                    |           | 2" Ice                | 2.601                | 1.865  | 0.175 |
| RFV01U-D1A                           | B           | From Leg    | 4.000    | 0'      | 0.000              | 88'       | No Ice                | 1.875                | 1.250  | 0.084 |
|                                      |             |             |          |         |                    |           | 1/2" Ice              | 2.045                | 1.393  | 0.103 |
|                                      |             |             |          |         |                    |           | 1" Ice                | 2.223                | 1.543  | 0.124 |
|                                      |             |             |          |         |                    |           | 2" Ice                | 2.601                | 1.865  | 0.175 |

|  |                |  |   |  |                    |  |                   |  |
|--|----------------|--|---|--|--------------------|--|-------------------|--|
| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa OK, 74119<br>Phone: (918) 587-4630<br>FAX: (918) 295-0265 | <b>Job</b>     |  | 91292.019.01 - MILFORD, CT (BU# 842870) |  | <b>Page</b>        |  | 22 of 38          |  |
|  | <b>Project</b> |  |   |  | <b>Date</b>        |  | 16:57:03 05/14/21 |  |
|  | <b>Client</b>  |  | Crown Castle                            |  | <b>Designed by</b> |  | Nithesh           |  |

| Description                            | Face or Leg | Offset Type | Offsets: |         | Azimuth Adjustment | Placement | C <sub>AA</sub> Front | C <sub>AA</sub> Side | Weight |
|--|-------------|-------------|----------|---------|--------------------|-----------|-----------------------|----------------------|--------|
|  |             |             | Horz     | Lateral |                    |           |                       |                      |        |
| RFV01U-D1A                             | C           | From Leg    | 4.000    | 0.000   | 88'                | 2" Ice    | 2.601                 | 1.865                | 0.175  |
|  |             |             |          |         |                    | No Ice    | 1.875                 | 1.250                | 0.084  |
|  |             |             |          |         |                    | 1/2" Ice  | 2.045                 | 1.393                | 0.103  |
|  |             |             |          |         |                    | 1" Ice    | 2.223                 | 1.543                | 0.124  |
| RFV01U-D2A                             | A           | From Leg    | 4.000    | 0.000   | 88'                | 2" Ice    | 2.601                 | 1.865                | 0.175  |
|  |             |             |          |         |                    | No Ice    | 1.875                 | 1.013                | 0.070  |
|  |             |             |          |         |                    | 1/2" Ice  | 2.045                 | 1.145                | 0.087  |
|  |             |             |          |         |                    | 1" Ice    | 2.223                 | 1.284                | 0.106  |
| RFV01U-D2A                             | B           | From Leg    | 4.000    | 0.000   | 88'                | 2" Ice    | 2.601                 | 1.585                | 0.153  |
|  |             |             |          |         |                    | No Ice    | 1.875                 | 1.013                | 0.070  |
|  |             |             |          |         |                    | 1/2" Ice  | 2.045                 | 1.145                | 0.087  |
|  |             |             |          |         |                    | 1" Ice    | 2.223                 | 1.284                | 0.106  |
| RFV01U-D2A                             | C           | From Leg    | 4.000    | 0.000   | 88'                | 2" Ice    | 2.601                 | 1.585                | 0.153  |
|  |             |             |          |         |                    | No Ice    | 1.875                 | 1.013                | 0.070  |
|  |             |             |          |         |                    | 1/2" Ice  | 2.045                 | 1.145                | 0.087  |
|  |             |             |          |         |                    | 1" Ice    | 2.223                 | 1.284                | 0.106  |
| RVZDC-6627-PF-48_CCIV2                 | A           | From Leg    | 4.000    | 0.000   | 88'                | 2" Ice    | 2.601                 | 1.585                | 0.153  |
|  |             |             |          |         |                    | No Ice    | 4.056                 | 3.098                | 0.032  |
|  |             |             |          |         |                    | 1/2" Ice  | 4.316                 | 3.335                | 0.068  |
|  |             |             |          |         |                    | 1" Ice    | 4.582                 | 3.580                | 0.109  |
| JMA 91900314-02                        | C           | None        | 0.000    | 88'     | 2" Ice             | 5.138     | 4.092                 | 0.203                |        |
|  |             |             |          |         | No Ice             | 3.600     | 3.600                 | 0.075                |        |
|  |             |             |          |         | 1/2" Ice           | 4.180     | 4.180                 | 0.105                |        |
|  |             |             |          |         | 1" Ice             | 4.750     | 4.750                 | 0.135                |        |
| Sector Mount [SM 408-3]                | C           | None        | 0.000    | 88'     | 2" Ice             | 5.900     | 5.900                 | 0.195                |        |
|  |             |             |          |         | No Ice             | 22.380    | 22.380                | 1.019                |        |
|  |             |             |          |         | 1/2" Ice           | 33.310    | 33.310                | 1.459                |        |
|  |             |             |          |         | 1" Ice             | 44.350    | 44.350                | 2.064                |        |
| Pipe Mount [PM 601-3]                  | C           | None        | 0.000    | 88'     | 2" Ice             | 67.760    | 67.760                | 3.750                |        |
|  |             |             |          |         | No Ice             | 3.170     | 3.170                 | 0.195                |        |
|  |             |             |          |         | 1/2" Ice           | 3.790     | 3.790                 | 0.232                |        |
|  |             |             |          |         | 1" Ice             | 4.420     | 4.420                 | 0.279                |        |
| *<br>APXV18-206517S-C w/<br>Mount Pipe | A           | From Leg    | 1.000    | 0.000   | 65'                | 2" Ice    | 5.760                 | 5.760                | 0.401  |
|  |             |             |          |         |                    | No Ice    | 3.790                 | 3.160                | 0.053  |
|  |             |             |          |         |                    | 1/2" Ice  | 4.380                 | 3.750                | 0.094  |
|  |             |             |          |         |                    | 1" Ice    | 4.990                 | 4.350                | 0.145  |
| APXV18-206517S-C w/<br>Mount Pipe      | B           | From Leg    | 1.000    | 0.000   | 65'                | 2" Ice    | 6.250                 | 5.590                | 0.281  |
|  |             |             |          |         |                    | No Ice    | 3.790                 | 3.160                | 0.053  |
|  |             |             |          |         |                    | 1/2" Ice  | 4.380                 | 3.750                | 0.094  |
|  |             |             |          |         |                    | 1" Ice    | 4.990                 | 4.350                | 0.145  |
| APXV18-206517S-C w/<br>Mount Pipe      | C           | From Leg    | 1.000    | 0.000   | 65'                | 2" Ice    | 6.250                 | 5.590                | 0.281  |
|  |             |             |          |         |                    | No Ice    | 3.790                 | 3.160                | 0.053  |
|  |             |             |          |         |                    | 1/2" Ice  | 4.380                 | 3.750                | 0.094  |
|  |             |             |          |         |                    | 1" Ice    | 4.990                 | 4.350                | 0.145  |
| *<br>GPS-TMG-HR-26NCM                  | C           | From Leg    | 1.000    | 0.000   | 50'                | 2" Ice    | 6.250                 | 5.590                | 0.281  |
|  |             |             |          |         |                    | No Ice    | 0.133                 | 0.133                | 0.001  |
|  |             |             |          |         |                    | 1/2" Ice  | 0.183                 | 0.183                | 0.002  |
|  |             |             |          |         |                    | 1" Ice    | 0.239                 | 0.239                | 0.005  |
| 4' x 2" Pipe Mount                     | C           | From Leg    | 0.500    | 0.000   | 50'                | 2" Ice    | 0.375                 | 0.375                | 0.014  |
|  |             |             |          |         |                    | No Ice    | 0.785                 | 0.785                | 0.029  |
|  |             |             |          |         |                    | 1/2" Ice  | 1.028                 | 1.028                | 0.035  |
|  |             |             |          |         |                    | 1" Ice    | 1.281                 | 1.281                | 0.044  |
| *<br>L3x3x3/16-Mid Girt                | A           | From Face   | 0.000    | 0.000   | 90'                | 2" Ice    | 1.814                 | 1.814                | 0.072  |
|  |             |             |          |         |                    | No Ice    | 2.100                 | 0.007                | 0.042  |

|  |   |                                  |
|--|---|----------------------------------|
| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa OK, 74119<br>Phone: (918) 587-4630<br>FAX: (918) 295-0265 | <b>Job</b><br>91292.019.01 - MILFORD, CT (BU# 842870) | <b>Page</b><br>23 of 38          |
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|  | <b>Client</b><br>Crown Castle                         | <b>Designed by</b><br>Nithesh    |

| Description        | Face or Leg | Offset Type | Offsets:     |       | Azimuth Adjustment | Placement | C <sub>AA</sub> Front | C <sub>AA</sub> Side | Weight |
|--------------------|-------------|-------------|--------------|-------|--------------------|-----------|-----------------------|----------------------|--------|
|                    |             |             | Horz Lateral | Vert  |                    |           |                       |                      |        |
|                    |             |             | ft           | ft    | °                  | ft        | ft <sup>2</sup>       | ft <sup>2</sup>      | K      |
| L3x3x3/16-Mid Girt | B           | From Face   | 0.000        | 0.000 | 90'                | 1/2" Ice  | 2.587                 | 0.028                | 0.054  |
|                    |             |             |              |       |                    | 1" Ice    | 3.081                 | 0.056                | 0.071  |
|                    |             |             |              |       |                    | 2" Ice    | 4.093                 | 0.135                | 0.124  |
|                    |             |             |              |       |                    | No Ice    | 2.100                 | 0.007                | 0.042  |
|                    |             |             |              |       |                    | 1/2" Ice  | 2.587                 | 0.028                | 0.054  |
| L3x3x3/16-Mid Girt | C           | From Face   | 0.000        | 0.000 | 90'                | 1" Ice    | 3.081                 | 0.056                | 0.071  |
|                    |             |             |              |       |                    | 2" Ice    | 4.093                 | 0.135                | 0.124  |
|                    |             |             |              |       |                    | No Ice    | 2.100                 | 0.007                | 0.042  |
|                    |             |             |              |       |                    | 1/2" Ice  | 2.587                 | 0.028                | 0.054  |
|                    |             |             |              |       |                    | 1" Ice    | 3.081                 | 0.056                | 0.071  |
|                    |             |             |              |       |                    | 2" Ice    | 4.093                 | 0.135                | 0.124  |

### Dishes

| Description | Face or Leg | Dish Type                | Offset Type | Offsets:     |         | Azimuth Adjustment | 3 dB Beam Width | Elevation | Outside Diameter | Aperture Area   | Weight |
|-------------|-------------|--------------------------|-------------|--------------|---------|--------------------|-----------------|-----------|------------------|-----------------|--------|
|             |             |                          |             | Horz Lateral | Vert    |                    |                 |           |                  |                 |        |
|             |             |                          |             | ft           | ft      | °                  | °               | ft        | ft               | ft <sup>2</sup> | K      |
| HPLPD1-18   | B           | Paraboloid w/Shroud (HP) | From Leg    | 4.000        | -27.000 | 150'               | 1.140           | No Ice    | 1.021            | 0.017           |        |
|             |             |                          |             |              |         |                    |                 | 1/2" Ice  | 1.175            | 0.023           |        |
|             |             |                          |             |              |         |                    |                 | 1" Ice    | 1.330            | 0.029           |        |
|             |             |                          |             |              |         |                    |                 | 2" Ice    | 1.639            | 0.041           |        |
| HPLPD1-18   | C           | Paraboloid w/Shroud (HP) | From Leg    | 4.000        | -11.000 | 150'               | 1.140           | No Ice    | 1.021            | 0.017           |        |
|             |             |                          |             |              |         |                    |                 | 1/2" Ice  | 1.175            | 0.023           |        |
|             |             |                          |             |              |         |                    |                 | 1" Ice    | 1.330            | 0.029           |        |
|             |             |                          |             |              |         |                    |                 | 2" Ice    | 1.639            | 0.041           |        |

\*

### Truss-Leg Properties

| Section Designation | Area            | Area Ice        | Self Weight | Ice Weight | Equiv. Diameter | Equiv. Diameter Ice | Leg Area        |
|---------------------|-----------------|-----------------|-------------|------------|-----------------|---------------------|-----------------|
|                     | in <sup>2</sup> | in <sup>2</sup> | K           | K          | in              | in                  | in <sup>2</sup> |
| Pirod 105244        | 1026.861        | 3022.418        | 0.563       | 0.444      | 7.131           | 20.989              | 3.682           |
| Pirod 105216        | 1998.089        | 6207.095        | 0.505       | 0.833      | 6.938           | 21.552              | 3.682           |
| Pirod 105217        | 2130.748        | 6248.170        | 0.619       | 0.819      | 7.398           | 21.695              | 5.301           |
| Pirod 105218        | 2263.469        | 6279.964        | 0.755       | 0.796      | 7.859           | 21.805              | 7.216           |
| Pirod 105218        | 2263.469        | 6221.454        | 0.755       | 0.737      | 7.859           | 21.602              | 7.216           |
| Pirod 105219        | 2441.869        | 6177.301        | 0.944       | 0.658      | 8.479           | 21.449              | 9.425           |

|   |  |   |
|---|--|---|
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|   | <p><b>Client</b></p> <p>Crown Castle</p>                         | <p><b>Designed by</b></p> <p>Nithesh</p>    |

## Load Combinations

| Comb. No. | Description                                |
|-----------|--|
| 1         | Dead Only                                  |
| 2         | 1.2 Dead+1.0 Wind 0 deg - No Ice           |
| 3         | 0.9 Dead+1.0 Wind 0 deg - No Ice           |
| 4         | 1.2 Dead+1.0 Wind 30 deg - No Ice          |
| 5         | 0.9 Dead+1.0 Wind 30 deg - No Ice          |
| 6         | 1.2 Dead+1.0 Wind 60 deg - No Ice          |
| 7         | 0.9 Dead+1.0 Wind 60 deg - No Ice          |
| 8         | 1.2 Dead+1.0 Wind 90 deg - No Ice          |
| 9         | 0.9 Dead+1.0 Wind 90 deg - No Ice          |
| 10        | 1.2 Dead+1.0 Wind 120 deg - No Ice         |
| 11        | 0.9 Dead+1.0 Wind 120 deg - No Ice         |
| 12        | 1.2 Dead+1.0 Wind 150 deg - No Ice         |
| 13        | 0.9 Dead+1.0 Wind 150 deg - No Ice         |
| 14        | 1.2 Dead+1.0 Wind 180 deg - No Ice         |
| 15        | 0.9 Dead+1.0 Wind 180 deg - No Ice         |
| 16        | 1.2 Dead+1.0 Wind 210 deg - No Ice         |
| 17        | 0.9 Dead+1.0 Wind 210 deg - No Ice         |
| 18        | 1.2 Dead+1.0 Wind 240 deg - No Ice         |
| 19        | 0.9 Dead+1.0 Wind 240 deg - No Ice         |
| 20        | 1.2 Dead+1.0 Wind 270 deg - No Ice         |
| 21        | 0.9 Dead+1.0 Wind 270 deg - No Ice         |
| 22        | 1.2 Dead+1.0 Wind 300 deg - No Ice         |
| 23        | 0.9 Dead+1.0 Wind 300 deg - No Ice         |
| 24        | 1.2 Dead+1.0 Wind 330 deg - No Ice         |
| 25        | 0.9 Dead+1.0 Wind 330 deg - No Ice         |
| 26        | 1.2 Dead+1.0 Ice+1.0 Temp                  |
| 27        | 1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp   |
| 28        | 1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp  |
| 29        | 1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp  |
| 30        | 1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp  |
| 31        | 1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp |
| 32        | 1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp |
| 33        | 1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp |
| 34        | 1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp |
| 35        | 1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp |
| 36        | 1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp |
| 37        | 1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp |
| 38        | 1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp |
| 39        | Dead+Wind 0 deg - Service                  |
| 40        | Dead+Wind 30 deg - Service                 |
| 41        | Dead+Wind 60 deg - Service                 |
| 42        | Dead+Wind 90 deg - Service                 |
| 43        | Dead+Wind 120 deg - Service                |
| 44        | Dead+Wind 150 deg - Service                |
| 45        | Dead+Wind 180 deg - Service                |
| 46        | Dead+Wind 210 deg - Service                |
| 47        | Dead+Wind 240 deg - Service                |
| 48        | Dead+Wind 270 deg - Service                |
| 49        | Dead+Wind 300 deg - Service                |
| 50        | Dead+Wind 330 deg - Service                |

|  |                |   |                    |                   |
|--|----------------|---|--------------------|-------------------|
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|  | <b>Client</b>  | Crown Castle                            | <b>Designed by</b> | Nithesh           |

### 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          | 150 - 147.583    | Leg            | Max Tension      | 23               | 4.441            | 0.000                    | 0.000                    |        |       |
|             |                  |                | Max. Compression | 18               | -6.012           | -0.224                   | 0.097                    |        |       |
|             |                  |                | Max. Mx          | 18               | -6.012           | -0.224                   | 0.097                    |        |       |
|             |                  |                | Max. My          | 2                | 1.513            | 0.106                    | -0.167                   |        |       |
|             |                  |                | Max. Vy          | 18               | 0.101            | 0.000                    | 0.000                    |        |       |
|             |                  |                | Max. Vx          | 2                | 0.072            | 0.000                    | 0.000                    |        |       |
|             |                  | Diagonal       | Max Tension      | 5                | 2.846            | 0.000                    | 0.000                    |        |       |
|             |                  |                | Max. Compression | 4                | -2.897           | 0.000                    | 0.000                    |        |       |
|             |                  |                | Max. Mx          | 26               | -0.069           | 0.005                    | 0.000                    |        |       |
|             |                  |                | Max. Vy          | 26               | -0.006           | 0.000                    | 0.000                    |        |       |
|             |                  |                | Top Girt         | Max Tension      | 15               | 1.904                    | 0.000                    | 0.000  |       |
|             |                  |                |                  | Max. Compression | 2                | -1.919                   | 0.026                    | -0.000 |       |
|             |                  | Max. Mx        |                  | 2                | -0.126           | -0.112                   | -0.000                   |        |       |
|             |                  | Max. My        |                  | 27               | -0.009           | -0.056                   | -0.000                   |        |       |
|             |                  | Max. Vy        |                  | 31               | 0.069            | -0.095                   | -0.000                   |        |       |
|             |                  | Max. Vx        |                  | 27               | -0.000           | 0.000                    | 0.000                    |        |       |
|             |                  | T2             | 147.583 - 130    | Leg              | Max Tension      | 7                        | 37.484                   | -0.358 | 0.069 |
|             |                  |                |                  |                  | Max. Compression | 2                        | -43.159                  | 0.367  | 0.050 |
| Max. Mx     | 6                |                |                  |                  | 33.382           | 0.758                    | -0.136                   |        |       |
| Max. My     | 9                |                |                  |                  | -2.699           | -0.001                   | -0.754                   |        |       |
| Max. Vy     | 7                |                |                  |                  | 3.348            | -0.358                   | 0.069                    |        |       |
| Max. Vx     | 9                |                |                  |                  | -3.186           | 0.004                    | 0.308                    |        |       |
| Diagonal    | Max Tension      |                |                  | 5                | 4.681            | 0.000                    | 0.000                    |        |       |
|             | Max. Compression |                |                  | 4                | -4.696           | 0.000                    | 0.000                    |        |       |
|             | Max. Mx          |                |                  | 27               | 1.062            | -0.005                   | 0.000                    |        |       |
|             | Max. My          |                |                  | 4                | -4.360           | -0.001                   | -0.001                   |        |       |
|             | Max. Vy          |                |                  | 27               | 0.008            | -0.005                   | 0.000                    |        |       |
|             | Max. Vx          |                |                  | 4                | 0.000            | -0.001                   | -0.001                   |        |       |
| Horizontal  | Max Tension      |                |                  | 14               | 0.888            | 0.000                    | 0.000                    |        |       |
|             | Max. Compression |                |                  | 3                | -0.623           | 0.000                    | 0.000                    |        |       |
|             | Max. Mx          |                |                  | 26               | 0.408            | 0.016                    | 0.000                    |        |       |
|             | Max. Vy          |                |                  | 26               | 0.015            | 0.000                    | 0.000                    |        |       |
|             | Top Girt         |                |                  | Max Tension      | 10               | 0.133                    | 0.000                    | 0.000  |       |
|             |                  |                |                  | Max. Compression | 7                | -0.087                   | 0.000                    | 0.000  |       |
| Max. Mx     |                  |                |                  | 26               | 0.047            | 0.014                    | 0.000                    |        |       |
| Max. Vy     |                  |                |                  | 26               | -0.014           | 0.000                    | 0.000                    |        |       |
| Bottom Girt |                  |                |                  | Max Tension      | 14               | 2.001                    | 0.000                    | 0.000  |       |
|             |                  |                |                  | Max. Compression | 3                | -1.860                   | 0.000                    | 0.000  |       |
|             | Max. Mx          |                |                  | 26               | 0.058            | 0.017                    | 0.000                    |        |       |
|             | Max. Vy          |                |                  | 26               | -0.015           | 0.000                    | 0.000                    |        |       |
|             | T3               | 130 - 110      | Leg              | Max Tension      | 7                | 86.931                   | -2.564                   | 0.171  |       |
|             |                  |                |                  | Max. Compression | 2                | -96.892                  | 2.489                    | 0.172  |       |
| Max. Mx     |                  |                |                  | 6                | 85.520           | -2.573                   | 0.171                    |        |       |
| Max. My     |                  |                |                  | 8                | -6.456           | -0.033                   | 2.128                    |        |       |
| Max. Vy     |                  |                |                  | 6                | 5.539            | -2.573                   | 0.171                    |        |       |
| Max. Vx     |                  |                |                  | 9                | -4.328           | -0.022                   | 2.128                    |        |       |
| Diagonal    |                  |                | Max Tension      | 5                | 6.106            | 0.000                    | 0.000                    |        |       |
|             |                  |                | Max. Compression | 4                | -6.138           | 0.000                    | 0.000                    |        |       |
|             |                  |                | Max. Mx          | 27               | 1.449            | -0.007                   | 0.000                    |        |       |
|             |                  |                | Max. My          | 4                | -5.447           | -0.000                   | -0.002                   |        |       |
|             |                  |                | Max. Vy          | 27               | 0.011            | -0.007                   | 0.000                    |        |       |
|             |                  |                | Max. Vx          | 4                | 0.001            | 0.000                    | 0.000                    |        |       |
| Horizontal  |                  |                | Max Tension      | 14               | 1.286            | 0.000                    | 0.000                    |        |       |
|             |                  |                | Max. Compression | 3                | -1.129           | 0.000                    | 0.000                    |        |       |
|             |                  |                | Max. Mx          | 26               | 0.292            | 0.017                    | 0.000                    |        |       |
|             |                  |                | Max. Vy          | 26               | -0.014           | 0.000                    | 0.000                    |        |       |
|             |                  |                | Top Girt         | Max Tension      | 18               | 1.860                    | 0.000                    | 0.000  |       |
|             |                  |                |                  | Max. Compression | 7                | -1.846                   | 0.000                    | 0.000  |       |

|  |                |   |                    |                   |
|--|----------------|---|--------------------|-------------------|
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|  | <b>Client</b>  | Crown Castle                            | <b>Designed by</b> | Nithesh           |

| Section No. | Elevation ft     | Component Type | Condition        | Gov. Load Comb.  | Axial K  | Major Axis Moment kip-ft | Minor Axis Moment kip-ft |        |
|-------------|------------------|----------------|------------------|------------------|----------|--------------------------|--------------------------|--------|
| T4          | 110 - 100        | Bottom Girt    | Max. Mx          | 26               | 0.033    | 0.017                    | 0.000                    |        |
|             |                  |                | Max. Vy          | 26               | -0.015   | 0.000                    | 0.000                    |        |
|             |                  |                | Max Tension      | 14               | 2.372    | 0.000                    | 0.000                    |        |
|             |                  |                | Max. Compression | 3                | -2.189   | 0.000                    | 0.000                    |        |
|             |                  |                | Max. Mx          | 26               | 0.234    | 0.020                    | 0.000                    |        |
|             |                  |                | Max. Vy          | 26               | 0.016    | 0.000                    | 0.000                    |        |
|             |                  | Leg            | Max Tension      | 7                | 89.164   | -2.564                   | 0.171                    |        |
|             |                  |                | Max. Compression | 2                | -97.606  | 8.362                    | 0.185                    |        |
|             |                  |                | Max. Mx          | 2                | -97.606  | 8.362                    | 0.185                    |        |
|             |                  |                | Max. My          | 8                | -5.872   | 0.547                    | 2.127                    |        |
|             |                  |                | Max. Vy          | 2                | -0.819   | 8.362                    | 0.185                    |        |
|             |                  |                | Max. Vx          | 8                | -0.274   | 0.547                    | 2.127                    |        |
|             |                  |                | Diagonal         | Max Tension      | 9        | 9.668                    | 0.057                    | 0.005  |
|             |                  |                |                  | Max. Compression | 8        | -11.205                  | 0.000                    | 0.000  |
|             |                  |                |                  | Max. Mx          | 8        | 4.133                    | 0.085                    | 0.003  |
|             |                  |                |                  | Max. My          | 4        | -7.056                   | -0.069                   | 0.011  |
|             |                  |                |                  | Max. Vy          | 28       | 0.027                    | 0.049                    | -0.004 |
|             |                  |                |                  | Max. Vx          | 4        | -0.002                   | 0.000                    | 0.000  |
| Top Girt    | Max Tension      | 14             | 1.004            | 0.000            | 0.000    |                          |                          |        |
|             | Max. Compression | 3              | -0.650           | 0.000            | 0.000    |                          |                          |        |
|             | Max. Mx          | 26             | 0.457            | -0.046           | 0.000    |                          |                          |        |
|             | Max. My          | 26             | 0.476            | 0.000            | 0.001    |                          |                          |        |
|             | Max. Vy          | 26             | 0.036            | 0.000            | 0.000    |                          |                          |        |
|             | Max. Vx          | 26             | 0.001            | 0.000            | 0.000    |                          |                          |        |
|             | T5               | 100 - 80       | Leg              | Max Tension      | 7        | 130.319                  | -3.565                   | 0.102  |
|             |                  |                |                  | Max. Compression | 2        | -148.908                 | 9.152                    | -0.047 |
|             |                  |                |                  | Max. Mx          | 2        | -148.908                 | 9.152                    | -0.047 |
|             |                  |                |                  | Max. My          | 8        | -8.612                   | -0.988                   | 13.985 |
|             |                  |                |                  | Max. Vy          | 10       | 1.345                    | 8.290                    | 0.070  |
|             |                  |                |                  | Max. Vx          | 8        | 2.821                    | -0.988                   | 13.985 |
| Diagonal    |                  |                | Max Tension      | 15               | 9.828    | 0.145                    | 0.037                    |        |
|             |                  |                | Max. Compression | 2                | -10.377  | 0.000                    | 0.000                    |        |
|             |                  |                | Max. Mx          | 2                | 5.811    | 0.235                    | 0.045                    |        |
|             |                  |                | Max. My          | 4                | -7.420   | -0.137                   | 0.054                    |        |
|             |                  |                | Max. Vy          | 28               | -0.054   | 0.153                    | 0.016                    |        |
|             |                  |                | Max. Vx          | 4                | -0.010   | 0.000                    | 0.000                    |        |
| Top Girt    |                  |                | Max Tension      | 6                | 6.953    | 0.000                    | 0.000                    |        |
|             |                  |                | Max. Compression | 3                | -5.880   | 0.000                    | 0.000                    |        |
|             |                  |                | Max. Mx          | 26               | 1.446    | -0.065                   | 0.000                    |        |
|             |                  |                | Max. My          | 26               | 1.356    | 0.000                    | 0.002                    |        |
|             |                  |                | Max. Vy          | 26               | -0.043   | 0.000                    | 0.000                    |        |
|             |                  |                | Max. Vx          | 26               | -0.001   | 0.000                    | 0.000                    |        |
| T6          | 80 - 60          | Leg            | Max Tension      | 7                | 173.333  | -4.459                   | 0.100                    |        |
|             |                  |                | Max. Compression | 2                | -197.997 | 6.493                    | 0.049                    |        |
|             |                  |                | Max. Mx          | 2                | -172.087 | 9.152                    | -0.047                   |        |
|             |                  |                | Max. My          | 9                | -9.928   | -0.447                   | 9.924                    |        |
|             |                  |                | Max. Vy          | 10               | 0.686    | 9.041                    | 0.011                    |        |
|             |                  |                | Max. Vx          | 8                | -1.385   | -0.600                   | 9.923                    |        |
|             |                  | Diagonal       | Max Tension      | 16               | 8.930    | 0.000                    | 0.000                    |        |
|             |                  |                | Max. Compression | 2                | -9.441   | 0.000                    | 0.000                    |        |
|             |                  |                | Max. Mx          | 2                | 6.727    | 0.138                    | 0.011                    |        |
|             |                  |                | Max. My          | 4                | -8.453   | -0.075                   | 0.025                    |        |
|             |                  |                | Max. Vy          | 27               | -0.048   | 0.109                    | 0.011                    |        |
|             |                  |                | Max. Vx          | 4                | -0.004   | 0.000                    | 0.000                    |        |
|             |                  | Top Girt       | Max Tension      | 6                | 6.487    | 0.000                    | 0.000                    |        |
|             |                  |                | Max. Compression | 3                | -5.640   | 0.000                    | 0.000                    |        |
|             |                  |                | Max. Mx          | 26               | 1.273    | -0.113                   | 0.000                    |        |
|             |                  |                | Max. My          | 26               | 1.187    | 0.000                    | 0.003                    |        |
|             |                  |                | Max. Vy          | 26               | 0.056    | 0.000                    | 0.000                    |        |
|             |                  |                | Max. Vx          | 26               | -0.002   | 0.000                    | 0.000                    |        |
| T7          | 60 - 40          | Leg            | Max Tension      | 23               | 211.031  | -5.614                   | -0.017                   |        |



|  |                |   |                    |                   |
|--|----------------|---|--------------------|-------------------|
| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa OK, 74119<br>Phone: (918) 587-4630<br>FAX: (918) 295-0265 | <b>Job</b>     | 91292.019.01 - MILFORD, CT (BU# 842870) | <b>Page</b>        | 27 of 38          |
|  | <b>Project</b> |   | <b>Date</b>        | 16:57:03 05/14/21 |
|  | <b>Client</b>  | Crown Castle                            | <b>Designed by</b> | Nithesh           |

| Section No. | Elevation ft     | Component Type | Condition        | Gov. Load Comb. | Axial K  | Major Axis Moment kip-ft | Minor Axis Moment kip-ft |
|-------------|------------------|----------------|------------------|-----------------|----------|--------------------------|--------------------------|
| T8          | 40 - 20          | Diagonal       | Max. Compression | 2               | -240.288 | 7.011                    | 0.219                    |
|             |                  |                | Max. Mx          | 2               | -240.288 | 7.011                    | 0.219                    |
|             |                  |                | Max. My          | 9               | -11.991  | 0.072                    | 6.998                    |
|             |                  |                | Max. Vy          | 10              | -0.264   | 6.952                    | 0.118                    |
|             |                  |                | Max. Vx          | 9               | -0.410   | 0.072                    | 6.998                    |
|             |                  |                | Max Tension      | 16              | 8.697    | 0.000                    | 0.000                    |
|             |                  |                | Max. Compression | 16              | -8.741   | 0.000                    | 0.000                    |
|             |                  | Leg            | Max. Mx          | 2               | 6.692    | 0.105                    | 0.011                    |
|             |                  |                | Max. My          | 36              | -1.035   | 0.062                    | -0.013                   |
|             |                  |                | Max. Vy          | 37              | 0.053    | 0.091                    | -0.012                   |
|             |                  |                | Max. Vx          | 36              | 0.003    | 0.000                    | 0.000                    |
|             |                  |                | Max Tension      | 23              | 246.374  | -5.235                   | -0.018                   |
|             |                  |                | Max. Compression | 2               | -280.088 | 6.431                    | 0.038                    |
|             |                  |                | Max. Mx          | 2               | -260.186 | 7.011                    | 0.219                    |
| T9          | 20 - 0           | Diagonal       | Max. My          | 9               | -12.510  | 0.072                    | 6.998                    |
|             |                  |                | Max. Vy          | 33              | 0.493    | -4.428                   | -0.036                   |
|             |                  |                | Max. Vx          | 9               | 0.449    | -0.140                   | 6.527                    |
|             |                  |                | Max Tension      | 16              | 9.073    | 0.000                    | 0.000                    |
|             |                  |                | Max. Compression | 16              | -9.282   | 0.000                    | 0.000                    |
|             |                  |                | Max. Mx          | 2               | 6.338    | 0.163                    | 0.013                    |
|             |                  |                | Max. My          | 30              | 2.692    | 0.127                    | 0.018                    |
|             |                  | Leg            | Max. Vy          | 37              | 0.071    | 0.130                    | 0.016                    |
|             |                  |                | Max. Vx          | 30              | -0.004   | 0.000                    | 0.000                    |
|             |                  |                | Max Tension      | 23              | 278.246  | -5.833                   | -0.031                   |
|             |                  |                | Max. Compression | 2               | -316.634 | 0.000                    | -0.000                   |
|             |                  |                | Max. Mx          | 2               | -299.638 | 6.431                    | 0.038                    |
|             |                  |                | Max. My          | 9               | -15.092  | -0.313                   | 9.928                    |
|             |                  |                | Max. Vy          | 33              | -0.815   | -4.428                   | -0.036                   |
| Diagonal    | Max. Vx          | 9              | 1.155            | -0.313          | 9.928    |                          |                          |
|             | Max Tension      | 15             | 10.374           | 0.000           | 0.000    |                          |                          |
|             | Max. Compression | 18             | -11.218          | 0.000           | 0.000    |                          |                          |
|             | Max. Mx          | 27             | 0.706            | 0.160           | 0.017    |                          |                          |
|             | Max. My          | 8              | 8.595            | 0.129           | 0.024    |                          |                          |
|             | Max. Vy          | 37             | 0.074            | 0.157           | -0.017   |                          |                          |
|             | Max. Vx          | 36             | 0.004            | 0.000           | 0.000    |                          |                          |

### Maximum Reactions

| Location | Condition           | Gov. Load Comb. | Vertical K | Horizontal, X K | Horizontal, Z K |
|----------|---------------------|-----------------|------------|-----------------|-----------------|
| Leg C    | Max. Vert           | 18              | 320.430    | 27.869          | -17.092         |
|          | Max. H <sub>x</sub> | 18              | 320.430    | 27.869          | -17.092         |
|          | Max. H <sub>z</sub> | 7               | -283.178   | -24.919         | 15.315          |
|          | Min. Vert           | 7               | -283.178   | -24.919         | 15.315          |
|          | Min. H <sub>x</sub> | 7               | -283.178   | -24.919         | 15.315          |
|          | Min. H <sub>z</sub> | 18              | 320.430    | 27.869          | -17.092         |
| Leg B    | Max. Vert           | 10              | 323.948    | -28.723         | -17.135         |
|          | Max. H <sub>x</sub> | 23              | -287.784   | 25.701          | 15.355          |
|          | Max. H <sub>z</sub> | 23              | -287.784   | 25.701          | 15.355          |
|          | Min. Vert           | 23              | -287.784   | 25.701          | 15.355          |
|          | Min. H <sub>x</sub> | 10              | 323.948    | -28.723         | -17.135         |
|          | Min. H <sub>z</sub> | 10              | 323.948    | -28.723         | -17.135         |
| Leg A    | Max. Vert           | 2               | 327.666    | -0.692          | 33.346          |
|          | Max. H <sub>x</sub> | 21              | 14.899     | 2.292           | 1.193           |
|          | Max. H <sub>z</sub> | 2               | 327.666    | -0.692          | 33.346          |
|          | Min. Vert           | 15              | -284.706   | 0.657           | -29.582         |

|   |  |   |
|---|--|---|
| <p><b>tnxTower</b></p> <p><b>B+T Group</b><br/>1717 S. Boulder, Suite 300<br/>Tulsa OK, 74119<br/>Phone: (918) 587-4630<br/>FAX: (918) 295-0265</p> | <p><b>Job</b></p> <p>91292.019.01 - MILFORD, CT (BU# 842870)</p> | <p><b>Page</b></p> <p>28 of 38</p>          |
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|   | <p><b>Client</b></p> <p>Crown Castle</p>                         | <p><b>Designed by</b></p> <p>Nithesh</p>    |

| Location | Condition           | Gov. Load Comb. | Vertical K | Horizontal, X K | Horizontal, Z K |
|----------|---------------------|-----------------|------------|-----------------|-----------------|
|          | Min. H <sub>x</sub> | 8               | 21.424     | -2.321          | 1.708           |
|          | Min. H <sub>z</sub> | 15              | -284.706   | 0.657           | -29.582         |

## Tower Mast Reaction Summary

| Load Combination                   | Vertical K | Shear <sub>x</sub> K | Shear <sub>z</sub> K | Overturing Moment, M <sub>x</sub> kip-ft | Overturing Moment, M <sub>z</sub> kip-ft | Torque kip-ft |
|------------------------------------|------------|----------------------|----------------------|--|--|---------------|
| Dead Only                          | 48.457     | 0.000                | -0.000               | -15.509                                  | 10.388                                   | 0.000         |
| 1.2 Dead+1.0 Wind 0 deg - No Ice   | 58.148     | 0.078                | -49.407              | -4271.697                                | 1.998                                    | -18.735       |
| 0.9 Dead+1.0 Wind 0 deg - No Ice   | 43.611     | 0.078                | -49.407              | -4267.044                                | -1.119                                   | -18.735       |
| 1.2 Dead+1.0 Wind 30 deg - No Ice  | 58.148     | 23.787               | -41.193              | -3608.728                                | -2062.651                                | -16.388       |
| 0.9 Dead+1.0 Wind 30 deg - No Ice  | 43.611     | 23.787               | -41.193              | -3604.075                                | -2065.767                                | -16.388       |
| 1.2 Dead+1.0 Wind 60 deg - No Ice  | 58.148     | 40.979               | -23.734              | -2087.841                                | -3557.588                                | -23.092       |
| 0.9 Dead+1.0 Wind 60 deg - No Ice  | 43.611     | 40.979               | -23.734              | -2083.189                                | -3560.705                                | -23.092       |
| 1.2 Dead+1.0 Wind 90 deg - No Ice  | 58.148     | 49.474               | -0.073               | -28.282                                  | -4218.523                                | -27.736       |
| 0.9 Dead+1.0 Wind 90 deg - No Ice  | 43.611     | 49.474               | -0.073               | -23.629                                  | -4221.640                                | -27.736       |
| 1.2 Dead+1.0 Wind 120 deg - No Ice | 58.148     | 43.113               | 24.882               | 2099.248                                 | -3661.050                                | -12.719       |
| 0.9 Dead+1.0 Wind 120 deg - No Ice | 43.611     | 43.113               | 24.882               | 2103.901                                 | -3664.166                                | -12.719       |
| 1.2 Dead+1.0 Wind 150 deg - No Ice | 58.148     | 24.317               | 42.252               | 3613.078                                 | -2075.918                                | 13.219        |
| 0.9 Dead+1.0 Wind 150 deg - No Ice | 43.611     | 24.317               | 42.252               | 3617.731                                 | -2079.034                                | 13.219        |
| 1.2 Dead+1.0 Wind 180 deg - No Ice | 58.148     | -0.065               | 47.976               | 4141.780                                 | 20.919                                   | 18.748        |
| 0.9 Dead+1.0 Wind 180 deg - No Ice | 43.611     | -0.065               | 47.976               | 4146.433                                 | 17.802                                   | 18.748        |
| 1.2 Dead+1.0 Wind 210 deg - No Ice | 58.148     | -23.694              | 41.020               | 3549.027                                 | 2075.579                                 | 16.369        |
| 0.9 Dead+1.0 Wind 210 deg - No Ice | 43.611     | -23.694              | 41.020               | 3553.680                                 | 2072.462                                 | 16.369        |
| 1.2 Dead+1.0 Wind 240 deg - No Ice | 58.148     | -41.893              | 24.255               | 2071.728                                 | 3620.645                                 | 23.044        |
| 0.9 Dead+1.0 Wind 240 deg - No Ice | 43.611     | -41.893              | 24.255               | 2076.381                                 | 3617.529                                 | 23.044        |
| 1.2 Dead+1.0 Wind 270 deg - No Ice | 58.148     | -49.289              | 0.068                | -9.672                                   | 4219.669                                 | 27.704        |
| 0.9 Dead+1.0 Wind 270 deg - No Ice | 43.611     | -49.289              | 0.068                | -5.020                                   | 4216.552                                 | 27.704        |
| 1.2 Dead+1.0 Wind 300 deg - No Ice | 58.148     | -42.047              | -24.269              | -2103.578                                | 3628.446                                 | 12.675        |
| 0.9 Dead+1.0 Wind 300 deg - No Ice | 43.611     | -42.047              | -24.269              | -2098.926                                | 3625.329                                 | 12.675        |
| 1.2 Dead+1.0 Wind 330 deg - No Ice | 58.148     | -24.327              | -42.248              | -3649.778                                | 2102.347                                 | -13.251       |
| 0.9 Dead+1.0 Wind 330 deg - No Ice | 43.611     | -24.327              | -42.248              | -3645.125                                | 2099.231                                 | -13.251       |

|   |  |   |
|---|--|---|
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|   | <p><b>Project</b></p>  | <p><b>Date</b></p> <p>16:57:03 05/14/21</p> |
|   | <p><b>Client</b></p> <p>Crown Castle</p>                         | <p><b>Designed by</b></p> <p>Nithesh</p>    |

| Load Combination                           | Vertical<br>K | Shear <sub>x</sub><br>K | Shear <sub>z</sub><br>K | Overturning<br>Moment, M <sub>x</sub><br>kip-ft | Overturning<br>Moment, M <sub>z</sub><br>kip-ft | Torque<br>kip-ft |
|--|---------------|-------------------------|-------------------------|---|---|------------------|
| 1.2 Dead+1.0 Ice+1.0 Temp                  | 138.883       | -0.000                  | -0.000                  | -57.012   | 30.506  | 0.000            |
| 1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp   | 138.883       | 0.021                   | -13.532                 | -1240.806                                       | 27.780  | -2.672           |
| 1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp  | 138.883       | 6.742                   | -11.693                 | -1080.970                                       | -559.955  | -2.603           |
| 1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp  | 138.883       | 11.824                  | -6.857                  | -654.239  | -997.888  | -4.404           |
| 1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp  | 138.883       | 13.836                  | -0.020                  | -59.554   | -1165.847                                       | -5.859           |
| 1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp | 138.883       | 11.887                  | 6.871                   | 533.515   | -991.341  | -3.170           |
| 1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp | 138.883       | 6.681                   | 11.626                  | 953.388   | -549.292  | 1.210            |
| 1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp | 138.883       | -0.018                  | 13.241                  | 1100.700  | 32.766  | 2.675            |
| 1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp | 138.883       | -6.673                  | 11.571                  | 951.124   | 612.058   | 2.599            |
| 1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp | 138.883       | -11.835                 | 6.862                   | 535.153   | 1050.494  | 4.393            |
| 1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp | 138.883       | -13.698                 | 0.018                   | -54.640   | 1209.092  | 5.852            |
| 1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp | 138.883       | -11.759                 | -6.797                  | -643.744  | 1045.650  | 3.160            |
| 1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp | 138.883       | -6.684                  | -11.625                 | -1067.291                                       | 610.652   | -1.218           |
| Dead+Wind 0 deg - Service                  | 48.457        | 0.019                   | -11.985                 | -1047.370                                       | 7.849   | -4.537           |
| Dead+Wind 30 deg - Service                 | 48.457        | 5.770                   | -9.993                  | -886.532  | -493.070  | -3.973           |
| Dead+Wind 60 deg - Service                 | 48.457        | 9.941                   | -5.757                  | -517.540  | -855.769  | -5.604           |
| Dead+Wind 90 deg - Service                 | 48.457        | 12.001                  | -0.018                  | -17.855   | -1016.114                                       | -6.734           |
| Dead+Wind 120 deg - Service                | 48.457        | 10.458                  | 6.036                   | 498.315   | -880.861  | -3.094           |
| Dead+Wind 150 deg - Service                | 48.457        | 5.899                   | 10.249                  | 865.596   | -496.288  | 3.197            |
| Dead+Wind 180 deg - Service                | 48.457        | -0.016                  | 11.638                  | 993.871   | 12.438  | 4.541            |
| Dead+Wind 210 deg - Service                | 48.457        | -5.748                  | 9.951                   | 850.062   | 510.935   | 3.968            |
| Dead+Wind 240 deg - Service                | 48.457        | -10.162                 | 5.884                   | 491.641   | 885.792   | 5.592            |
| Dead+Wind 270 deg - Service                | 48.457        | -11.957                 | 0.016                   | -13.341   | 1031.121  | 6.726            |
| Dead+Wind 300 deg - Service                | 48.457        | -10.200                 | -5.887                  | -521.356  | 887.684   | 3.084            |
| Dead+Wind 330 deg - Service                | 48.457        | -5.901                  | -10.249                 | -896.488  | 517.427   | -3.204           |

## Solution Summary

| Load Comb. | Sum of Applied Forces |         |         | Sum of Reactions |         |         | % Error |
|------------|-----------------------|---------|---------|------------------|---------|---------|---------|
|            | PX<br>K               | PY<br>K | PZ<br>K | PX<br>K          | PY<br>K | PZ<br>K |         |
| 1          | 0.000                 | -48.457 | 0.000   | 0.000            | 48.457  | 0.000   | 0.000%  |
| 2          | 0.078                 | -58.148 | -49.407 | -0.078           | 58.148  | 49.407  | 0.000%  |
| 3          | 0.078                 | -43.611 | -49.407 | -0.078           | 43.611  | 49.407  | 0.000%  |
| 4          | 23.787                | -58.148 | -41.193 | -23.787          | 58.148  | 41.193  | 0.000%  |
| 5          | 23.787                | -43.611 | -41.193 | -23.787          | 43.611  | 41.193  | 0.000%  |
| 6          | 40.979                | -58.148 | -23.734 | -40.979          | 58.148  | 23.734  | 0.000%  |
| 7          | 40.979                | -43.611 | -23.734 | -40.979          | 43.611  | 23.734  | 0.000%  |
| 8          | 49.474                | -58.148 | -0.073  | -49.474          | 58.148  | 0.073   | 0.000%  |
| 9          | 49.474                | -43.611 | -0.073  | -49.474          | 43.611  | 0.073   | 0.000%  |
| 10         | 43.113                | -58.148 | 24.882  | -43.113          | 58.148  | -24.882 | 0.000%  |
| 11         | 43.113                | -43.611 | 24.882  | -43.113          | 43.611  | -24.882 | 0.000%  |
| 12         | 24.317                | -58.148 | 42.252  | -24.317          | 58.148  | -42.252 | 0.000%  |
| 13         | 24.317                | -43.611 | 42.252  | -24.317          | 43.611  | -42.252 | 0.000%  |
| 14         | -0.065                | -58.148 | 47.976  | 0.065            | 58.148  | -47.976 | 0.000%  |
| 15         | -0.065                | -43.611 | 47.976  | 0.065            | 43.611  | -47.976 | 0.000%  |

|  |                |   |             |                    |
|--|----------------|---|-------------|--------------------|
| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa OK, 74119<br>Phone: (918) 587-4630<br>FAX: (918) 295-0265 | <b>Job</b>     | 91292.019.01 - MILFORD, CT (BU# 842870) | <b>Page</b> | 30 of 38           |
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|  | <b>Client</b>  | Crown Castle                            |             | <b>Designed by</b> |

| Load Comb. | Sum of Applied Forces |          |         | Sum of Reactions |         |         | % Error |
|------------|-----------------------|----------|---------|------------------|---------|---------|---------|
|            | PX K                  | PY K     | PZ K    | PX K             | PY K    | PZ K    |         |
| 16         | -23.694               | -58.148  | 41.020  | 23.694           | 58.148  | -41.020 | 0.000%  |
| 17         | -23.694               | -43.611  | 41.020  | 23.694           | 43.611  | -41.020 | 0.000%  |
| 18         | -41.893               | -58.148  | 24.255  | 41.893           | 58.148  | -24.255 | 0.000%  |
| 19         | -41.893               | -43.611  | 24.255  | 41.893           | 43.611  | -24.255 | 0.000%  |
| 20         | -49.289               | -58.148  | 0.068   | 49.289           | 58.148  | -0.068  | 0.000%  |
| 21         | -49.289               | -43.611  | 0.068   | 49.289           | 43.611  | -0.068  | 0.000%  |
| 22         | -42.047               | -58.148  | -24.269 | 42.047           | 58.148  | 24.269  | 0.000%  |
| 23         | -42.047               | -43.611  | -24.269 | 42.047           | 43.611  | 24.269  | 0.000%  |
| 24         | -24.327               | -58.148  | -42.248 | 24.327           | 58.148  | 42.248  | 0.000%  |
| 25         | -24.327               | -43.611  | -42.248 | 24.327           | 43.611  | 42.248  | 0.000%  |
| 26         | 0.000                 | -138.883 | 0.000   | 0.000            | 138.883 | 0.000   | 0.000%  |
| 27         | 0.021                 | -138.883 | -13.532 | -0.021           | 138.883 | 13.532  | 0.000%  |
| 28         | 6.742                 | -138.883 | -11.693 | -6.742           | 138.883 | 11.693  | 0.000%  |
| 29         | 11.824                | -138.883 | -6.857  | -11.824          | 138.883 | 6.857   | 0.000%  |
| 30         | 13.836                | -138.883 | -0.020  | -13.836          | 138.883 | 0.020   | 0.000%  |
| 31         | 11.887                | -138.883 | 6.871   | -11.887          | 138.883 | -6.871  | 0.000%  |
| 32         | 6.681                 | -138.883 | 11.626  | -6.681           | 138.883 | -11.626 | 0.000%  |
| 33         | -0.018                | -138.883 | 13.241  | 0.018            | 138.883 | -13.241 | 0.000%  |
| 34         | -6.673                | -138.883 | 11.571  | 6.673            | 138.883 | -11.571 | 0.000%  |
| 35         | -11.835               | -138.883 | 6.862   | 11.835           | 138.883 | -6.862  | 0.000%  |
| 36         | -13.698               | -138.883 | 0.018   | 13.698           | 138.883 | -0.018  | 0.000%  |
| 37         | -11.759               | -138.883 | -6.797  | 11.759           | 138.883 | 6.797   | 0.000%  |
| 38         | -6.684                | -138.883 | -11.625 | 6.684            | 138.883 | 11.625  | 0.000%  |
| 39         | 0.019                 | -48.457  | -11.985 | -0.019           | 48.457  | 11.985  | 0.000%  |
| 40         | 5.770                 | -48.457  | -9.993  | -5.770           | 48.457  | 9.993   | 0.000%  |
| 41         | 9.941                 | -48.457  | -5.757  | -9.941           | 48.457  | 5.757   | 0.000%  |
| 42         | 12.001                | -48.457  | -0.018  | -12.001          | 48.457  | 0.018   | 0.000%  |
| 43         | 10.458                | -48.457  | 6.036   | -10.458          | 48.457  | -6.036  | 0.000%  |
| 44         | 5.899                 | -48.457  | 10.249  | -5.899           | 48.457  | -10.249 | 0.000%  |
| 45         | -0.016                | -48.457  | 11.638  | 0.016            | 48.457  | -11.638 | 0.000%  |
| 46         | -5.748                | -48.457  | 9.951   | 5.748            | 48.457  | -9.951  | 0.000%  |
| 47         | -10.162               | -48.457  | 5.884   | 10.162           | 48.457  | -5.884  | 0.000%  |
| 48         | -11.957               | -48.457  | 0.016   | 11.957           | 48.457  | -0.016  | 0.000%  |
| 49         | -10.200               | -48.457  | -5.887  | 10.200           | 48.457  | 5.887   | 0.000%  |
| 50         | -5.901                | -48.457  | -10.249 | 5.901            | 48.457  | 10.249  | 0.000%  |

### Maximum Tower Deflections - Service Wind

| Section No. | Elevation ft  | Horz. Deflection in | Gov. Load Comb. | Tilt ° | Twist ° |
|-------------|---------------|---------------------|-----------------|--------|---------|
| T1          | 150 - 147.583 | 6.213               | 39              | 0.411  | 0.087   |
| T2          | 147.583 - 130 | 6.003               | 39              | 0.410  | 0.081   |
| T3          | 130 - 110     | 4.505               | 39              | 0.372  | 0.046   |
| T4          | 110 - 100     | 3.024               | 39              | 0.302  | 0.024   |
| T5          | 100 - 80      | 2.419               | 39              | 0.264  | 0.020   |
| T6          | 80 - 60       | 1.466               | 39              | 0.183  | 0.016   |
| T7          | 60 - 40       | 0.793               | 39              | 0.123  | 0.011   |
| T8          | 40 - 20       | 0.342               | 39              | 0.079  | 0.006   |
| T9          | 20 - 0        | 0.088               | 39              | 0.034  | 0.003   |

|  |                |   |             |                    |
|--|----------------|---|-------------|--------------------|
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|  | <b>Client</b>  | Crown Castle                            |             | <b>Designed by</b> |

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

| <i>Elevation</i> | <i>Appurtenance</i>             | <i>Gov. Load</i> | <i>Deflection</i> | <i>Tilt</i> | <i>Twist</i> | <i>Radius of Curvature</i> |
|------------------|---------------------------------|------------------|-------------------|-------------|--------------|----------------------------|
| <i>ft</i>        |                                 | <i>Comb.</i>     | <i>in</i>         | <i>°</i>    | <i>°</i>     | <i>ft</i>                  |
| 151'             | HPLPD1-18                       | 39               | 6.213             | 0.411       | 0.087        | 151064                     |
| 150'             | SC226-SFXSNM                    | 39               | 6.213             | 0.411       | 0.087        | 151064                     |
| 144'             | RRUS 32 B30                     | 39               | 5.692             | 0.406       | 0.072        | 106779                     |
| 141'             | 7770.00 w/ Mount Pipe           | 39               | 5.432             | 0.401       | 0.066        | 54468                      |
| 130'             | M5160160P10006                  | 39               | 4.505             | 0.372       | 0.046        | 19454                      |
| 118'             | SC320                           | 39               | 3.576             | 0.331       | 0.031        | 13865                      |
| 114'             | AIR6449 B41 w/ Mount Pipe       | 39               | 3.293             | 0.316       | 0.027        | 12716                      |
| 103'             | 800MHZ 2X50W RRH W/FILTER       | 39               | 2.591             | 0.276       | 0.021        | 12993                      |
| 100'             | DT465B-2XR w/ Mount Pipe        | 39               | 2.419             | 0.264       | 0.020        | 13566                      |
| 90'              | L3x3x3/16-Mid Girt              | 39               | 1.903             | 0.223       | 0.018        | 15222                      |
| 88'              | (2) LPA-80063/4CF w/ Mount Pipe | 39               | 1.810             | 0.215       | 0.017        | 15592                      |
| 65'              | APXV18-206517S-C w/ Mount Pipe  | 39               | 0.939             | 0.136       | 0.012        | 20812                      |
| 50'              | GPS-TMG-HR-26NCM                | 39               | 0.542             | 0.100       | 0.008        | 23565                      |

### Maximum Tower Deflections - Design Wind

| <i>Section No.</i> | <i>Elevation</i> | <i>Horz. Deflection</i> | <i>Gov. Load</i> | <i>Tilt</i> | <i>Twist</i> |
|--------------------|------------------|-------------------------|------------------|-------------|--------------|
|                    | <i>ft</i>        | <i>in</i>               | <i>Comb.</i>     | <i>°</i>    | <i>°</i>     |
| T1                 | 150 - 147.583    | 25.401                  | 2                | 1.682       | 0.361        |
| T2                 | 147.583 - 130    | 24.543                  | 2                | 1.676       | 0.335        |
| T3                 | 130 - 110        | 18.415                  | 2                | 1.521       | 0.189        |
| T4                 | 110 - 100        | 12.357                  | 2                | 1.232       | 0.100        |
| T5                 | 100 - 80         | 9.885                   | 2                | 1.079       | 0.081        |
| T6                 | 80 - 60          | 5.992                   | 2                | 0.747       | 0.066        |
| T7                 | 60 - 40          | 3.243                   | 2                | 0.502       | 0.045        |
| T8                 | 40 - 20          | 1.399                   | 2                | 0.321       | 0.025        |
| T9                 | 20 - 0           | 0.362                   | 2                | 0.138       | 0.013        |

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

| <i>Elevation</i> | <i>Appurtenance</i>             | <i>Gov. Load</i> | <i>Deflection</i> | <i>Tilt</i> | <i>Twist</i> | <i>Radius of Curvature</i> |
|------------------|---------------------------------|------------------|-------------------|-------------|--------------|----------------------------|
| <i>ft</i>        |                                 | <i>Comb.</i>     | <i>in</i>         | <i>°</i>    | <i>°</i>     | <i>ft</i>                  |
| 151'             | HPLPD1-18                       | 2                | 25.401            | 1.682       | 0.361        | 37553                      |
| 150'             | SC226-SFXSNM                    | 2                | 25.401            | 1.682       | 0.361        | 37553                      |
| 144'             | RRUS 32 B30                     | 2                | 23.269            | 1.660       | 0.299        | 26382                      |
| 141'             | 7770.00 w/ Mount Pipe           | 2                | 22.208            | 1.639       | 0.271        | 13291                      |
| 130'             | M5160160P10006                  | 2                | 18.415            | 1.521       | 0.189        | 4768                       |
| 118'             | SC320                           | 2                | 14.617            | 1.352       | 0.126        | 3391                       |
| 114'             | AIR6449 B41 w/ Mount Pipe       | 2                | 13.456            | 1.293       | 0.110        | 3110                       |
| 103'             | 800MHZ 2X50W RRH W/FILTER       | 2                | 10.586            | 1.127       | 0.086        | 3168                       |
| 100'             | DT465B-2XR w/ Mount Pipe        | 2                | 9.885             | 1.079       | 0.081        | 3304                       |
| 90'              | L3x3x3/16-Mid Girt              | 2                | 7.777             | 0.911       | 0.072        | 3720                       |
| 88'              | (2) LPA-80063/4CF w/ Mount Pipe | 2                | 7.396             | 0.877       | 0.071        | 3812                       |
| 65'              | APXV18-206517S-C w/ Mount Pipe  | 2                | 3.838             | 0.554       | 0.051        | 5097                       |
| 50'              | GPS-TMG-HR-26NCM                | 2                | 2.217             | 0.410       | 0.035        | 5768                       |

|  |   |                                  |
|--|---|----------------------------------|
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### Bolt Design Data

| Section No. | Elevation<br>ft | Component Type | Bolt Grade | Bolt Size<br>in | Number Of Bolts | Maximum Load per Bolt<br>K | Allowable Load per Bolt<br>K | Ratio Load<br>Allowable | Allowable Ratio | Criteria           |
|-------------|-----------------|----------------|------------|-----------------|-----------------|----------------------------|------------------------------|-------------------------|-----------------|--------------------|
| T2          | 147.583         | Leg            | A325N      | 0.625           | 5               | 8.632                      | 27.612                       | 0.313 ✓                 | 1.05            | Bolt DS            |
| T3          | 130             | Leg            | A325N      | 1.000           | 6               | 14.489                     | 54.517                       | 0.266 ✓                 | 1.05            | Bolt Tension       |
| T4          | 110             | Leg            | A325N      | 1.000           | 6               | 14.861                     | 54.517                       | 0.273 ✓                 | 1.05            | Bolt Tension       |
|             |                 | Diagonal       | A325N      | 1.000           | 1               | 9.668                      | 10.663                       | 0.907 ✓                 | 1.05            | Member Block Shear |
| T5          | 100             | Top Girt       | A325N      | 1.000           | 1               | 1.693                      | 11.682                       | 0.145 ✓                 | 1.05            | Member Block Shear |
|             |                 | Leg            | A325N      | 1.000           | 6               | 21.714                     | 54.517                       | 0.398 ✓                 | 1.05            | Bolt Tension       |
|             |                 | Diagonal       | A325N      | 1.000           | 1               | 9.828                      | 21.326                       | 0.461 ✓                 | 1.05            | Member Block Shear |
| T6          | 80              | Top Girt       | A325N      | 1.000           | 1               | 6.953                      | 11.682                       | 0.595 ✓                 | 1.05            | Member Block Shear |
|             |                 | Leg            | A325N      | 1.000           | 6               | 28.889                     | 54.517                       | 0.530 ✓                 | 1.05            | Bolt Tension       |
|             |                 | Diagonal       | A325N      | 1.000           | 1               | 8.930                      | 11.682                       | 0.764 ✓                 | 1.05            | Member Block Shear |
| T7          | 60              | Top Girt       | A325N      | 1.000           | 1               | 6.487                      | 11.682                       | 0.555 ✓                 | 1.05            | Member Block Shear |
|             |                 | Leg            | A325N      | 1.000           | 6               | 35.172                     | 54.517                       | 0.645 ✓                 | 1.05            | Bolt Tension       |
|             |                 | Diagonal       | A325N      | 1.000           | 1               | 8.697                      | 11.682                       | 0.744 ✓                 | 1.05            | Member Block Shear |
| T8          | 40              | Leg            | A325N      | 1.000           | 6               | 41.062                     | 54.517                       | 0.753 ✓                 | 1.05            | Bolt Tension       |
|             |                 | Diagonal       | A325N      | 1.000           | 1               | 9.073                      | 19.471                       | 0.466 ✓                 | 1.05            | Member Block Shear |
| T9          | 20              | Diagonal       | A325N      | 1.250           | 1               | 10.374                     | 23.701                       | 0.438 ✓                 | 1.05            | Member Block Shear |

### Compression Checks

#### Leg Design Data (Compression)

| Section No. | Elevation<br>ft | Size         | L<br>ft        | L <sub>u</sub><br>ft | Kl/r           | A<br>in <sup>2</sup> | P <sub>u</sub><br>K | φP <sub>n</sub><br>K | Ratio<br>P <sub>u</sub> /<br>φP <sub>n</sub> |
|-------------|-----------------|--------------|----------------|----------------------|----------------|----------------------|---------------------|----------------------|--|
| T1          | 150 - 147.583   | 1 1/2        | 2'5"           | 2'5"                 | 77.3<br>K=1.00 | 1.767                | -6.012              | 51.350               | 0.117 <sup>1</sup> ✓                         |
| T2          | 147.583 - 130   | 1 1/2        | 17'7-1/3<br>2" | 2'5"                 | 77.3<br>K=1.00 | 1.767                | -39.799             | 51.350               | 0.775 <sup>1</sup> ✓                         |
| T3          | 130 - 110       | 2            | 20'1/32"       | 2'4-3/8"             | 56.8<br>K=1.00 | 3.142                | -92.422             | 111.705              | 0.827 <sup>1</sup> ✓                         |
| T4          | 110 - 100       | Pirod 105244 | 10'7/32"       | 10'7/32"             | 45.4<br>K=1.00 | 3.682                | -97.606             | 142.493              | 0.685 <sup>1</sup> ✓                         |
| T5          | 100 - 80        | Pirod 105216 | 20'13/32<br>"  | 10'7/32"             | 45.4<br>K=1.00 | 3.682                | -148.908            | 142.493              | 1.045 <sup>1</sup> ✓                         |
| T6          | 80 - 60         | Pirod 105217 | 20'13/32       | 10'7/32"             | 37.8           | 5.301                | -197.997            | 214.859              | 0.922 <sup>1</sup> ✓                         |



|  |   |                                  |
|--|---|----------------------------------|
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|  | <b>Client</b><br>Crown Castle                         | <b>Designed by</b><br>Nithesh    |

| Section No. | Elevation<br>ft | Size      | L<br>ft   | L <sub>u</sub><br>ft | KL/r                      | A<br>in <sup>2</sup> | P <sub>u</sub><br>K | φP <sub>n</sub><br>K | Ratio<br>$\frac{P_u}{\phi P_n}$ |
|-------------|-----------------|-----------|-----------|----------------------|---------------------------|----------------------|---------------------|----------------------|---------------------------------|
| T9          | 20 - 0          | L3x3x5/16 | 18'5-3/8' | 8'8-1/8"             | K=1.00<br>176.8<br>K=1.00 | 1.780                | -11.218             | 16.304               | 0.688 <sup>1</sup><br>✓<br>✓    |

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

### Horizontal Design Data (Compression)

| Section No. | Elevation<br>ft | Size | L<br>ft   | L <sub>u</sub><br>ft | KL/r            | A<br>in <sup>2</sup> | P <sub>u</sub><br>K | φP <sub>n</sub><br>K | Ratio<br>$\frac{P_u}{\phi P_n}$ |
|-------------|-----------------|------|-----------|----------------------|-----------------|----------------------|---------------------|----------------------|---------------------------------|
| T2          | 147.583 - 130   | 7/8  | 4'5-3/16' | 4'3-11/16"           | 165.4<br>K=0.70 | 0.601                | -0.746              | 4.967                | 0.150 <sup>1</sup><br>✓         |
| T3          | 130 - 110       | 3/4  | 4'11-1/8' | 4'9-1/8"             | 213.2<br>K=0.70 | 0.442                | -1.671              | 2.195                | 0.761 <sup>1</sup><br>✓         |

KL/R > 200 (C) - 85

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

### Top Girt Design Data (Compression)

| Section No. | Elevation<br>ft | Size      | L<br>ft   | L <sub>u</sub><br>ft | KL/r            | A<br>in <sup>2</sup> | P <sub>u</sub><br>K | φP <sub>n</sub><br>K | Ratio<br>$\frac{P_u}{\phi P_n}$ |
|-------------|-----------------|-----------|-----------|----------------------|-----------------|----------------------|---------------------|----------------------|---------------------------------|
| T1          | 150 - 147.583   | 5x1/2     | 4'        | 2'10-7/8"            | 241.6<br>K=1.00 | 2.500                | -1.919              | 9.674                | 0.198 <sup>1</sup><br>✓         |
| T2          | 147.583 - 130   | 7/8       | 4'27/32"  | 3'11-11/32"          | 151.5<br>K=0.70 | 0.601                | -0.748              | 5.917                | 0.126 <sup>1</sup><br>✓         |
| T3          | 130 - 110       | 7/8       | 4'6-5/32' | 4'4-5/32'            | 166.9<br>K=0.70 | 0.601                | -1.846              | 4.878                | 0.378 <sup>1</sup><br>✓         |
| T4          | 110 - 100       | L3x3x3/16 | 5'        | 3'7"                 | 96.1<br>K=1.33  | 1.090                | -1.693              | 27.281               | 0.062 <sup>1</sup><br>✓         |
| T5          | 100 - 80        | L3x3x3/16 | 6'        | 4'7"                 | 106.1<br>K=1.15 | 1.090                | -5.880              | 24.936               | 0.236 <sup>1</sup><br>✓         |
| T6          | 80 - 60         | L3x3x3/16 | 8'        | 6'7"                 | 132.6<br>K=1.00 | 1.090                | -5.640              | 17.757               | 0.318 <sup>1</sup><br>✓         |

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



|  |                |   |                    |                   |
|--|----------------|---|--------------------|-------------------|
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### Bottom Girt Design Data (Compression)

| Section No. | Elevation<br>ft | Size | L<br>ft     | L <sub>u</sub><br>ft | Kl/r            | A<br>in <sup>2</sup> | P <sub>u</sub><br>K | φP <sub>n</sub><br>K | Ratio<br>$\frac{P_u}{\phi P_n}$ |
|-------------|-----------------|------|-------------|----------------------|-----------------|----------------------|---------------------|----------------------|---------------------------------|
| T2          | 147.583 - 130   | 7/8  | 4'5-29/32"  | 4'4-13/32"           | 167.7<br>K=0.70 | 0.601                | -1.860              | 4.831                | 0.385 <sup>1</sup><br>✓         |
| T3          | 130 - 110       | 7/8  | 4'11-13/16" | 4'9-13/16"           | 185.0<br>K=0.70 | 0.601                | -2.189              | 3.967                | 0.552 <sup>1</sup><br>✓         |

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

### Tension Checks

### Leg Design Data (Tension)

| Section No. | Elevation<br>ft | Size         | L<br>ft   | L <sub>u</sub><br>ft | Kl/r | A<br>in <sup>2</sup> | P <sub>u</sub><br>K | φP <sub>n</sub><br>K | Ratio<br>$\frac{P_u}{\phi P_n}$ |
|-------------|-----------------|--------------|-----------|----------------------|------|----------------------|---------------------|----------------------|---------------------------------|
| T1          | 150 - 147.583   | 1 1/2        | 2'5"      | 2'5"                 | 77.3 | 1.767                | 4.441               | 79.522               | 0.056 <sup>1</sup><br>✓         |
| T2          | 147.583 - 130   | 1 1/2        | 1'7-1/32" | 4"                   | 10.7 | 1.767                | 37.484              | 79.522               | 0.471 <sup>1</sup><br>✓         |
| T3          | 130 - 110       | 2            | 20'1/32"  | 7"                   | 14.0 | 3.142                | 86.931              | 141.372              | 0.615 <sup>1</sup><br>✓         |
| T4          | 110 - 100       | Pirod 105244 | 10'7/32"  | 10'7/32"             | 45.4 | 3.682                | 89.164              | 165.670              | 0.538 <sup>1</sup><br>✓         |
| T5          | 100 - 80        | Pirod 105216 | 20'13/32" | 10'7/32"             | 45.4 | 3.682                | 130.283             | 165.670              | 0.786 <sup>1</sup><br>✓         |
| T6          | 80 - 60         | Pirod 105217 | 20'13/32" | 10'7/32"             | 37.8 | 5.301                | 173.333             | 238.565              | 0.727 <sup>1</sup><br>✓         |
| T7          | 60 - 40         | Pirod 105218 | 20'13/32" | 10'7/32"             | 32.4 | 7.216                | 211.032             | 324.713              | 0.650 <sup>1</sup><br>✓         |
| T8          | 40 - 20         | Pirod 105218 | 20'13/32" | 10'7/32"             | 32.4 | 7.216                | 246.374             | 324.713              | 0.759 <sup>1</sup><br>✓         |
| T9          | 20 - 0          | Pirod 105219 | 20'13/32" | 10'7/32"             | 28.4 | 9.425                | 278.246             | 424.115              | 0.656 <sup>1</sup><br>✓         |

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

### Truss-Leg Diagonal Data

| Section No. | Elevation<br>ft | Diagonal Size | L <sub>d</sub><br>ft | Kl/r  | φP <sub>n</sub><br>K | A<br>in <sup>2</sup> | V <sub>u</sub><br>K | φV <sub>n</sub><br>K | Stress Ratio |
|-------------|-----------------|---------------|----------------------|-------|----------------------|----------------------|---------------------|----------------------|--------------|
| T4          | 110 - 100       | 0.5           | 1'5-25/32"           | 121.0 | 165.670              | 0.196                | 0.820               | 3.389                | 0.242<br>✓   |
| T5          | 100 - 80        | 0.5           | 1'5-25/32"           | 121.0 | 165.670              | 0.196                | 2.805               | 3.292                | 0.853        |

|  |                |   |                    |                   |
|--|----------------|---|--------------------|-------------------|
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| Section No. | Elevation ft | Diagonal Size | $L_d$ ft   | $Kl/r$ | $\phi P_n$ K | $A$ in <sup>2</sup> | $V_u$ K | $\phi V_n$ K | Stress Ratio |
|-------------|--------------|---------------|------------|--------|--------------|---------------------|---------|--------------|--------------|
| T6          | 80 - 60      | 0.5           | 1'5-21/32" | 120.0  | 238.565      | 0.196               | 1.395   | 3.335        | 0.419 ✓      |
| T7          | 60 - 40      | 0.5           | 1'5-1/2"   | 119.0  | 324.713      | 0.196               | 0.411   | 3.378        | 0.123 ✓      |
| T8          | 40 - 20      | 0.5           | 1'5-1/2"   | 119.0  | 324.713      | 0.196               | 0.493   | 3.378        | 0.146 ✓      |
| T9          | 20 - 0       | 0.625         | 1'5-11/32" | 94.4   | 424.115      | 0.307               | 1.156   | 6.958        | 0.167 ✓      |

### Diagonal Design Data (Tension)

| Section No. | Elevation ft  | Size              | $L$ ft     | $L_u$ ft    | $Kl/r$ | $A$ in <sup>2</sup> | $P_u$ K | $\phi P_n$ K | Ratio $\frac{P_u}{\phi P_n}$ |
|-------------|---------------|-------------------|------------|-------------|--------|---------------------|---------|--------------|------------------------------|
| T1          | 150 - 147.583 | 3/4               | 3'1-7/8"   | 3'23/32"    | 195.8  | 0.442               | 2.846   | 19.880       | 0.143 <sup>1</sup> ✓         |
| T2          | 147.583 - 130 | 3/4               | 5'7/8"     | 2'5-25/32"  | 158.9  | 0.442               | 4.681   | 19.880       | 0.235 <sup>1</sup> ✓         |
| T3          | 130 - 110     | 7/8               | 5'5-29/32" | 2'8-1/32"   | 146.4  | 0.601               | 6.106   | 27.059       | 0.226 <sup>1</sup> ✓         |
| T4          | 110 - 100     | L2 1/2x2 1/2x3/16 | 11'5"      | 4'11-25/32" | 80.1   | 0.518               | 9.668   | 22.546       | 0.429 <sup>1</sup> ✓         |
| T5          | 100 - 80      | L2 1/2x2 1/2x3/8  | 12'6-1/32" | 5'7-17/32"  | 93.0   | 0.981               | 9.828   | 42.678       | 0.230 <sup>1</sup> ✓         |
| T6          | 80 - 60       | L3x3x3/16         | 13'9-9/16" | 6'3-15/16"  | 83.5   | 0.659               | 8.930   | 28.679       | 0.311 <sup>1</sup> ✓         |
| T7          | 60 - 40       | L3x3x3/16         | 14'6-1/32" | 6'8-23/32"  | 88.6   | 0.659               | 8.697   | 28.679       | 0.303 <sup>1</sup> ✓         |
| T8          | 40 - 20       | L3x3x5/16         | 16'1/8"    | 7'5-15/16"  | 100.3  | 1.071               | 9.073   | 46.603       | 0.195 <sup>1</sup> ✓         |
| T9          | 20 - 0        | L3x3x5/16         | 18'5-3/8"  | 8'8-1/8"    | 116.2  | 1.013               | 10.374  | 44.054       | 0.235 <sup>1</sup> ✓         |

<sup>1</sup>  $P_u / \phi P_n$  controls

### Horizontal Design Data (Tension)

| Section No. | Elevation ft  | Size | $L$ ft      | $L_u$ ft   | $Kl/r$ | $A$ in <sup>2</sup> | $P_u$ K | $\phi P_n$ K | Ratio $\frac{P_u}{\phi P_n}$ |
|-------------|---------------|------|-------------|------------|--------|---------------------|---------|--------------|------------------------------|
| T2          | 147.583 - 130 | 7/8  | 4'4-7/16"   | 4'2-15/16" | 232.9  | 0.601               | 0.888   | 27.059       | 0.033 <sup>1</sup> ✓         |
| T3          | 130 - 110     | 3/4  | 4'10-13/32" | 4'8-13/32" | 300.8  | 0.442               | 1.671   | 19.880       | 0.084 <sup>1</sup> ✓         |

|  |   |                                  |
|--|---|----------------------------------|
| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa OK, 74119<br>Phone: (918) 587-4630<br>FAX: (918) 295-0265 | <b>Job</b><br>91292.019.01 - MILFORD, CT (BU# 842870) | <b>Page</b><br>37 of 38          |
|  | <b>Project</b>  | <b>Date</b><br>16:57:03 05/14/21 |
|  | <b>Client</b><br>Crown Castle                         | <b>Designed by</b><br>Nithesh    |

<sup>1</sup>  $P_u / \phi P_n$  controls

### Top Girt Design Data (Tension)

| Section No. | Elevation<br>ft | Size      | L<br>ft   | $L_u$<br>ft | $Kl/r$ | A<br>in <sup>2</sup> | $P_u$<br>K | $\phi P_n$<br>K | Ratio<br>$\frac{P_u}{\phi P_n}$ |
|-------------|-----------------|-----------|-----------|-------------|--------|----------------------|------------|-----------------|---------------------------------|
| T1          | 150 - 147.583   | 5x1/2     | 4'        | 2'10-7/8'   | 241.6  | 2.500                | 1.904      | 81.000          | 0.024 <sup>1</sup>              |
| T2          | 147.583 - 130   | 7/8       | 4'27/32"  | 3'11-11/32" | 216.5  | 0.601                | 0.748      | 27.059          | 0.028 <sup>1</sup>              |
| T3          | 130 - 110       | 7/8       | 4'6-5/32" | 4'4-5/32"   | 238.4  | 0.601                | 1.860      | 27.059          | 0.069 <sup>1</sup>              |
| T4          | 110 - 100       | L3x3x3/16 | 5'        | 3'7"        | 51.1   | 0.659                | 1.693      | 28.679          | 0.059 <sup>1</sup>              |
| T5          | 100 - 80        | L3x3x3/16 | 6'        | 4'7"        | 63.9   | 0.659                | 6.953      | 28.679          | 0.242 <sup>1</sup>              |
| T6          | 80 - 60         | L3x3x3/16 | 8'        | 6'7"        | 89.5   | 0.659                | 6.487      | 28.679          | 0.226 <sup>1</sup>              |

<sup>1</sup>  $P_u / \phi P_n$  controls

### Bottom Girt Design Data (Tension)

| Section No. | Elevation<br>ft | Size | L<br>ft     | $L_u$<br>ft | $Kl/r$ | A<br>in <sup>2</sup> | $P_u$<br>K | $\phi P_n$<br>K | Ratio<br>$\frac{P_u}{\phi P_n}$ |
|-------------|-----------------|------|-------------|-------------|--------|----------------------|------------|-----------------|---------------------------------|
| T2          | 147.583 - 130   | 7/8  | 4'5-29/32"  | 4'4-13/32"  | 239.5  | 0.601                | 2.001      | 27.059          | 0.074 <sup>1</sup>              |
| T3          | 130 - 110       | 7/8  | 4'11-13/16" | 4'9-13/16"  | 264.3  | 0.601                | 2.372      | 27.059          | 0.088 <sup>1</sup>              |

<sup>1</sup>  $P_u / \phi P_n$  controls

### Section Capacity Table

| Section No. | Elevation<br>ft | Component Type | Size         | Critical Element | P<br>K   | $\phi P_{allow}$<br>K | %<br>Capacity | Pass<br>Fail |
|-------------|-----------------|----------------|--------------|------------------|----------|-----------------------|---------------|--------------|
| T1          | 150 - 147.583   | Leg            | 1 1/2        | 1                | -6.012   | 53.917                | 11.2          | Pass         |
| T2          | 147.583 - 130   | Leg            | 1 1/2        | 15               | -39.799  | 53.917                | 73.8          | Pass         |
| T3          | 130 - 110       | Leg            | 2            | 72               | -92.422  | 117.290               | 78.8          | Pass         |
| T4          | 110 - 100       | Leg            | Pirol 105244 | 136              | -97.606  | 149.618               | 65.2          | Pass         |
| T5          | 100 - 80        | Leg            | Pirol 105216 | 148              | -148.908 | 149.618               | 99.5          | Pass         |
| T6          | 80 - 60         | Leg            | Pirol 105217 | 166              | -197.997 | 225.602               | 87.8          | Pass         |
| T7          | 60 - 40         | Leg            | Pirol 105218 | 184              | -240.288 | 315.715               | 76.1          | Pass         |
| T8          | 40 - 20         | Leg            | Pirol 105218 | 199              | -280.088 | 315.715               | 88.7          | Pass         |
| T9          | 20 - 0          | Leg            | Pirol 105219 | 214              | -316.634 | 419.861               | 75.4          | Pass         |
| T1          | 150 - 147.583   | Diagonal       | 3/4          | 11               | -2.897   | 5.577                 | 52.0          | Pass         |
| T2          | 147.583 - 130   | Diagonal       | 3/4          | 26               | -4.696   | 5.123                 | 91.7          | Pass         |

**tnxTower**

**B+T Group**  
 1717 S. Boulder, Suite 300  
 Tulsa OK, 74119  
 Phone: (918) 587-4630  
 FAX: (918) 295-0265

|                |   |                    |                   |
|----------------|---|--------------------|-------------------|
| <b>Job</b>     | 91292.019.01 - MILFORD, CT (BU# 842870) | <b>Page</b>        | 38 of 38          |
| <b>Project</b> |   | <b>Date</b>        | 16:57:03 05/14/21 |
| <b>Client</b>  | Crown Castle                            | <b>Designed by</b> | Nithesh           |

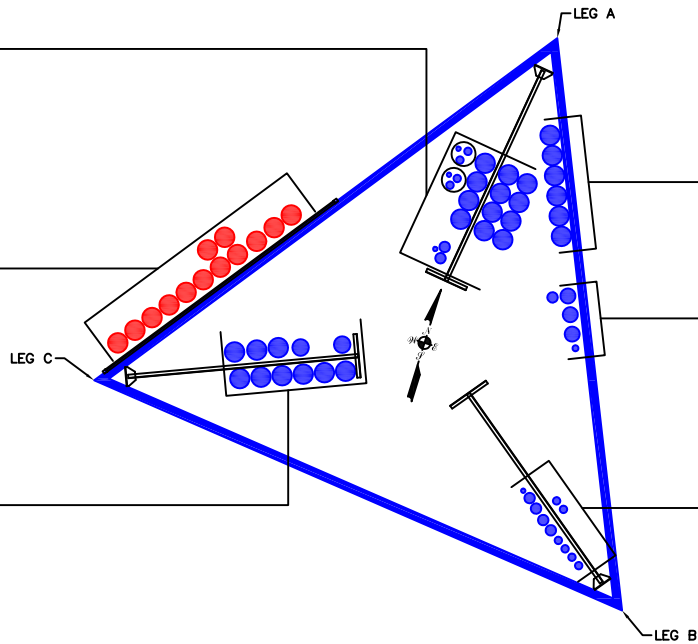
| Section No. | Elevation ft  | Component Type | Size              | Critical Element | P K     | $\phi P_{allow}$ K | % Capacity       | Pass Fail   |             |
|-------------|---------------|----------------|-------------------|------------------|---------|--------------------|------------------|-------------|-------------|
| T3          | 130 - 110     | Diagonal       | 7/8               | 83               | -6.138  | 8.211              | 74.8             | Pass        |             |
| T4          | 110 - 100     | Diagonal       | L2 1/2x2 1/2x3/16 | 142              | -11.206 | 18.455             | 60.7             | Pass        |             |
| T5          | 100 - 80      | Diagonal       | L2 1/2x2 1/2x3/8  | 156              | -10.377 | 27.043             | 38.4             | Pass        |             |
| T6          | 80 - 60       | Diagonal       | L3x3x3/16         | 174              | -8.848  | 20.182             | 43.8             | Pass        |             |
| T7          | 60 - 40       | Diagonal       | L3x3x3/16         | 190              | -8.642  | 16.112             | 53.6             | Pass        |             |
| T8          | 40 - 20       | Diagonal       | L3x3x5/16         | 205              | -9.282  | 20.744             | 44.7             | Pass        |             |
| T9          | 20 - 0        | Diagonal       | L3x3x5/16         | 220              | -11.218 | 17.119             | 65.5             | Pass        |             |
| T2          | 147.583 - 130 | Horizontal     | 7/8               | 28               | -0.746  | 5.216              | 14.3             | Pass        |             |
| T3          | 130 - 110     | Horizontal     | 3/4               | 85               | -1.671  | 2.305              | 72.5             | Pass        |             |
| T1          | 150 - 147.583 | Top Girt       | 5x1/2             | 6                | -1.919  | 10.158             | 18.9             | Pass        |             |
| T2          | 147.583 - 130 | Top Girt       | 7/8               | 17               | -0.748  | 6.213              | 12.0             | Pass        |             |
| T3          | 130 - 110     | Top Girt       | 7/8               | 74               | -1.846  | 5.122              | 36.0             | Pass        |             |
| T4          | 110 - 100     | Top Girt       | L3x3x3/16         | 138              | -1.693  | 28.645             | 5.9              | Pass        |             |
| T5          | 100 - 80      | Top Girt       | L3x3x3/16         | 150              | 6.953   | 30.113             | 23.1             | Pass        |             |
| T6          | 80 - 60       | Top Girt       | L3x3x3/16         | 167              | -5.640  | 18.645             | 30.3             | Pass        |             |
| T2          | 147.583 - 130 | Bottom Girt    | 7/8               | 19               | -1.860  | 5.073              | 36.7             | Pass        |             |
| T3          | 130 - 110     | Bottom Girt    | 7/8               | 76               | -2.189  | 4.166              | 52.5             | Pass        |             |
|             |               |                |                   |                  |         |                    | Summary          |             |             |
|             |               |                |                   |                  |         |                    | Leg (T5)         | 99.5        | Pass        |
|             |               |                |                   |                  |         |                    | Diagonal (T2)    | 91.7        | Pass        |
|             |               |                |                   |                  |         |                    | Horizontal (T3)  | 72.5        | Pass        |
|             |               |                |                   |                  |         |                    | Top Girt (T3)    | 36.0        | Pass        |
|             |               |                |                   |                  |         |                    | Bottom Girt (T3) | 52.5        | Pass        |
|             |               |                |                   |                  |         |                    | Bolt Checks      | 86.3        | Pass        |
|             |               |                |                   |                  |         |                    | <b>RATING =</b>  | <b>99.5</b> | <b>Pass</b> |

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

(OTHER CONSIDERED EQUIPMENT—IN CONDUIT)  
 (2) 3/8" TO 141 FT LEVEL  
 (4) 5/8" TO 141 FT LEVEL  
 (OTHER CONSIDERED EQUIPMENT)  
 (1) 3/8" TO 141 FT LEVEL  
 (2) 7/8" TO 141 FT LEVEL  
 (12) 1-5/8" TO 141 FT LEVEL

(PROPOSED EQUIPMENT CONFIGURATION)  
 (13) 1-5/8" TO 88 FT LEVEL

(OTHER CONSIDERED EQUIPMENT)  
 (2) 1-3/8" TO 114 FT LEVEL  
 (9) 1-5/8" TO 114 FT LEVEL



(OTHER CONSIDERED EQUIPMENT)  
 (6) 1-5/8" TO 65 FT LEVEL

(OTHER CONSIDERED EQUIPMENT)  
 (1) 1/2" TO 50 FT LEVEL  
 (1) 7/8" TO 100 FT LEVEL  
 (3) 1-1/4" TO 100 FT LEVEL

(OTHER CONSIDERED EQUIPMENT)  
 (1) 3/8" TO 150 FT LEVEL  
 (6) 5/8" TO 150 FT LEVEL  
 (2) 7/8" TO 118 FT LEVEL  
 (2) 7/8" TO 130 FT LEVEL

BUSINESS UNIT: 842870

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



# Self Support Anchor Rod Capacity



| Site Info |               |
|-----------|---------------|
| BU #      | 842870        |
| Site Name | MILFORD, CT   |
| Order #   | 568291 Rev. 0 |

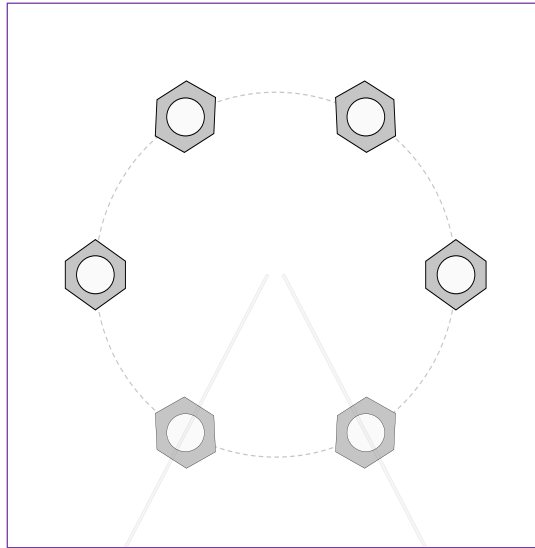
| Analysis Considerations |      |
|-------------------------|------|
| TIA-222 Revision        | H    |
| Grout Considered:       | Yes  |
| $l_{ar}$ (in)           | 3.25 |

| Applied Loads      |        |        |
|--------------------|--------|--------|
|                    | Comp.  | Uplift |
| Axial Force (kips) | 328.00 | 288.00 |
| Shear Force (kips) | 33.00  | 30.00  |

\*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               |                      |
|--|--|--------------------------------|----------------------|
| <b>Anchor Rod Data</b>                                   |  | <b>Anchor Rod Summary</b>      |                      |
| (6) 1-1/4" $\phi$ bolts (A687 N; Fy=105 ksi, Fu=125 ksi) |  | <i>(units of kips, kip-in)</i> |                      |
| $l_{ar}$ (in): 3.25                                      |  | Pu_t = 48                      | $\phi Pn_t = 90.84$  |
|  |  | Vu = 5                         | $\phi Vn = 57.52$    |
|  |  | Mu = n/a                       | $\phi Mn = n/a$      |
|  |  |                                | <b>Stress Rating</b> |
|  |  |                                | <b>50.3%</b>         |
|  |  |                                | <b>Pass</b>          |

# SST Unit Base Foundation



BU #: 842870  
 Site Name: MILFORD, CT  
 App. Number: 568291 Rev. 0

TIA-222 Revision: H

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

| Superstructure Analysis Reactions               |      |         |
|---|------|---------|
| Global Moment, <b>M:</b>                        | 4272 | ft-kips |
| Global Axial, <b>P:</b>                         | 58   | kips    |
| Global Shear, <b>V:</b>                         | 50   | kips    |
| Leg Compression, <b>P<sub>comp</sub>:</b>       | 328  | kips    |
| Leg Comp. Shear, <b>V<sub>u,comp</sub>:</b>     | 33   | kips    |
| Leg Uplift, <b>P<sub>uplift</sub>:</b>          | 288  | kips    |
| Leg Uplift. Shear, <b>V<sub>u,uplift</sub>:</b> | 20   | kips    |
| Tower Height, <b>H:</b>                         | 150  | ft      |
| Base Face Width, <b>BW:</b>                     | 16   | ft      |
| BP Dist. Above Fdn, <b>bp<sub>dist</sub>:</b>   | 4.5  | in      |

| Foundation Analysis Checks               |          |         |         |       |
|--|----------|---------|---------|-------|
|  | Capacity | Demand  | Rating* | Check |
| <i>Lateral (Sliding) (kips)</i>          | 488.50   | 50.00   | 9.7%    | Pass  |
| <i>Bearing Pressure (ksf)</i>            | 9.00     | 1.95    | 20.6%   | Pass  |
| <i>Overturing (kip*ft)</i>               | 10543.91 | 4789.55 | 45.4%   | Pass  |
| <i>Pier Flexure (Comp.) (kip*ft)</i>     | 1686.96  | 107.25  | 6.1%    | Pass  |
| <i>Pier Flexure (Tension) (kip*ft)</i>   | 810.60   | 65.00   | 7.6%    | Pass  |
| <i>Pier Compression (kip)</i>            | 7592.08  | 337.30  | 4.2%    | Pass  |
| <i>Pad Flexure (kip*ft)</i>              | 10017.30 | 496.04  | 4.7%    | Pass  |
| <i>Pad Shear - 1-way (kips)</i>          | 1172.32  | 82.34   | 6.7%    | Pass  |
| <i>Pad Shear - Comp 2-way (ksi)</i>      | 0.164    | 0.029   | 16.6%   | Pass  |
| <i>Flexural 2-way (Comp) (kip*ft)</i>    | 9194.09  | 64.35   | 0.7%    | Pass  |
| <i>Pad Shear - Tension 2-way (ksi)</i>   | 0.164    | 0.026   | 15.2%   | Pass  |
| <i>Flexural 2-way (Tension) (kip*ft)</i> | 9194.09  | 39.00   | 0.4%    | Pass  |

\*Rating per TIA-222-H Section 15.5

|                     |       |
|---------------------|-------|
| Soil Rating*:       | 45.4% |
| Structural Rating*: | 16.6% |

| Pier Properties                             |          |    |
|---|----------|----|
| Pier Shape:                                 | Circular |    |
| Pier Diameter, <b>dpier:</b>                | 4.5      | ft |
| Ext. Above Grade, <b>E:</b>                 | 0.50     | ft |
| Pier Rebar Size, <b>Sc:</b>                 | 8        |    |
| Pier Rebar Quantity, <b>mc:</b>             | 16       |    |
| Pier Tie/Spiral Size, <b>St:</b>            | 4        |    |
| Pier Tie/Spiral Quantity, <b>mt:</b>        | 7        |    |
| Pier Reinforcement Type:                    | Tie      |    |
| Pier Clear Cover, <b>cc<sub>pier</sub>:</b> | 3        | in |

| Pad Properties   |       |    |
|--|-------|----|
| Depth, <b>D:</b>   | 6.50  | ft |
| Pad Width, <b>W<sub>1</sub>:</b>                           | 29.50 | ft |
| Pad Thickness, <b>T:</b>                                   | 3.75  | ft |
| Pad Rebar Size (Bottom dir. 2), <b>Sp<sub>2</sub>:</b>     | 9     |    |
| Pad Rebar Quantity (Bottom dir. 2), <b>mp<sub>2</sub>:</b> | 58    |    |
| Pad Clear Cover, <b>cc<sub>pad</sub>:</b>                  | 3     | in |

| Material Properties                        |     |     |
|--|-----|-----|
| Rebar Grade, <b>Fy:</b>                    | 60  | ksi |
| Concrete Compressive Strength, <b>F'c:</b> | 3   | ksi |
| Dry Concrete Density, <b>δc:</b>           | 150 | pcf |

| Soil Properties                           |        |         |
|---|--------|---------|
| Total Soil Unit Weight, <b>γ:</b>         | 125    | pcf     |
| Ultimate Gross Bearing, <b>Qult:</b>      | 12.000 | ksf     |
| Cohesion, <b>Cu:</b>                      | 0.000  | ksf     |
| Friction Angle, <b>φ:</b>                 | 34     | degrees |
| SPT Blow Count, <b>N<sub>blows</sub>:</b> |        |         |
| Base Friction, <b>μ:</b>                  | 0.6    |         |
| Neglected Depth, <b>N:</b>                | 3.5    | ft      |
| Foundation Bearing on Rock?               | No     |         |
| Groundwater Depth, <b>gw:</b>             | 7      | ft      |

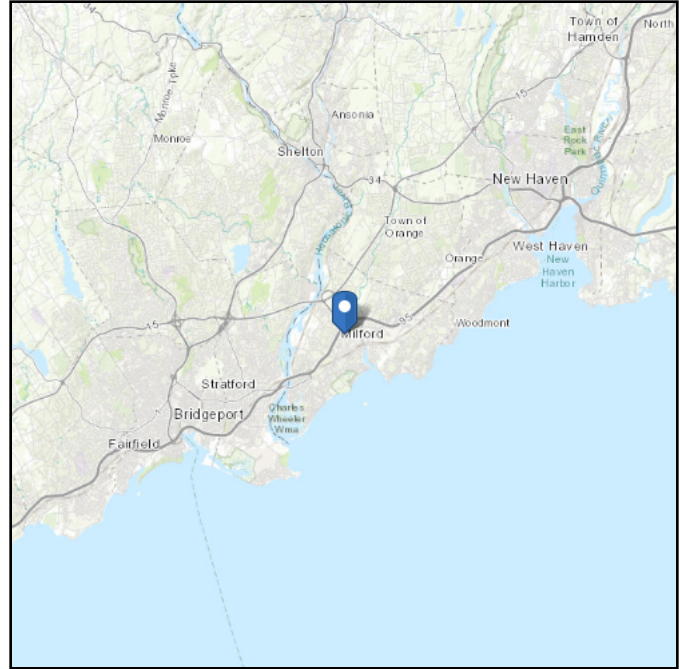
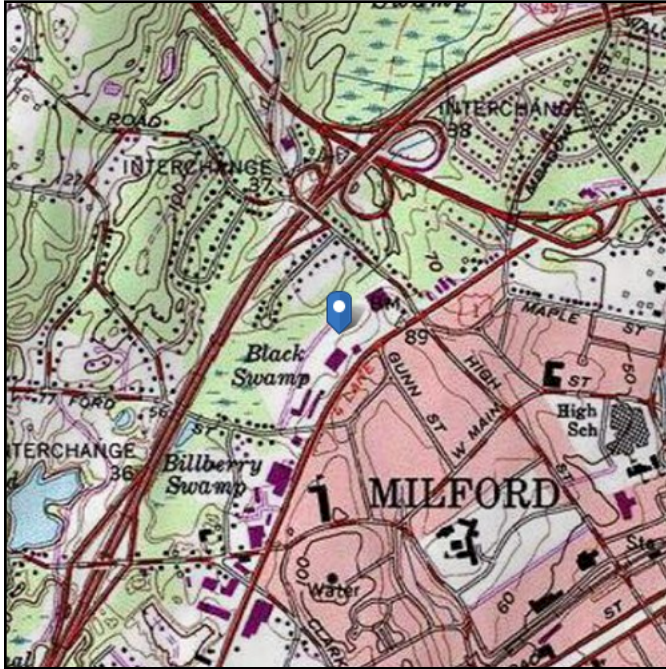
<-- Toggle between Gross and Net

# ASCE 7 Hazards Report

**Address:**  
No Address at This  
Location

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

**Elevation:** 68.18 ft (NAVD 88)  
**Latitude:** 41.228525  
**Longitude:** -73.070131

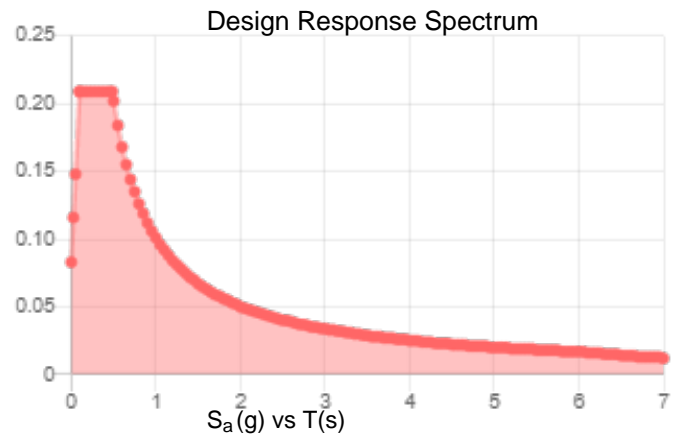
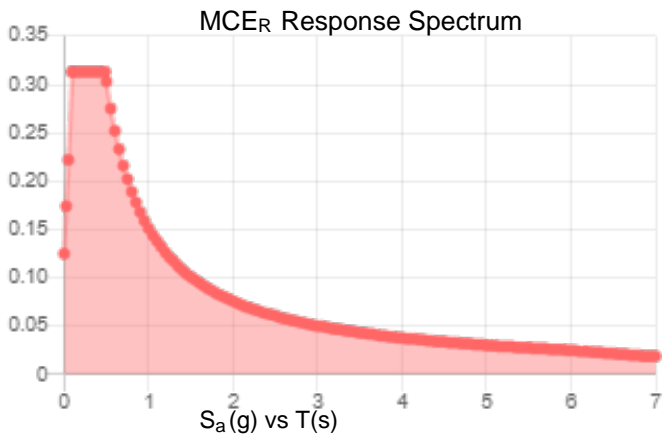


**Site Soil Class:** D - Stiff Soil

**Results:**

|            |       |                    |       |
|------------|-------|--------------------|-------|
| $S_s$ :    | 0.195 | $S_{DS}$ :         | 0.209 |
| $S_1$ :    | 0.063 | $S_{D1}$ :         | 0.101 |
| $F_a$ :    | 1.6   | $T_L$ :            | 6     |
| $F_v$ :    | 2.4   | PGA :              | 0.104 |
| $S_{MS}$ : | 0.313 | PGA <sub>M</sub> : | 0.166 |
| $S_{M1}$ : | 0.151 | F <sub>PGA</sub> : | 1.592 |
|            |       | $I_e$ :            | 1     |

**Seismic Design Category** B



**Data Accessed:**

Fri May 07 2021

**Date Source:**

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

## Ice

---

### Results:

Ice Thickness: 0.75 in.

Concurrent Temperature: 15 F

Gust Speed: 50 mph

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

**Date Accessed:** Fri May 07 2021

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

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

---

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

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# Exhibit E

## **Mount Analysis**



Maser Consulting Connecticut  
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## New/Replacement Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10078045  
Maser Consulting Connecticut Project #: 21777587A

June 30, 2021

### Site Information

Site ID: 469110-VZW / MILFORD CENTER CT  
Site Name: MILFORD CENTER CT  
Carrier Name: Verizon Wireless  
Address: 434 BOSTON POST RD.  
Milford, Connecticut 06460  
New Haven County  
Latitude: 41.228528°  
Longitude: -73.070139°

### Structure Information

Tower Type: 150-Ft Self Support  
Mount Type: 12.50-Ft Sector Frame

FUZE ID # 16231893

### Analysis Results

Sector Frame: 36.6% 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: Lauren Luzier



Digitally signed by Taqi Khawaja  
Date: 2021.07.02 17:29:40-04'00'

**Executive Summary:**

The objective of this report is to determine the capacity of the proposed antenna support mount at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards. The proposed mount was assumed to be installed properly to the existing tower per the manufacturer’s instructions. Maser Consulting cannot verify that the proposed mount will fit properly and is not liable for any fit-up issues during installation.

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: 324371, dated April 8, 2021</i>                         |
| <i>Mount Mapping Report</i>              | <i>Structural Components, Site Name: Milford Center CT, dated March 31, 2021</i> |
| <i>Failing Mount Analysis Report</i>     | <i>Maser Consulting Connecticut Project #: 21777587A, dated June 11, 2021</i>    |
| <i>Mount Specification</i>               | <i>SitePro1 P/N VFA12-HD</i>   |

**Analysis Criteria:**

|                         |   |
|-------------------------|---|
| Codes and Standards:    | ANSI/TIA-222-H  |
| Wind Parameters:        | Basic Wind Speed (Ultimate 3-sec. Gust), $V_{ULT}$ : 120 mph<br>Ice Wind Speed (3-sec. Gust): 50 mph<br>Design Ice Thickness: 1.00 in<br>Risk Category: II<br>Exposure Category: B<br>Topographic Category: 1<br>Topographic Feature Considered: N/A<br>Topographic Method: N/A<br>Ground Elevation Factor, $K_e$ : 0.998 |
| Seismic Parameters:     | Ss: 0.202<br>S1: 0.053  |
| Maintenance Parameters: | Wind Speed (3-sec. Gust): 30 mph<br>Maintenance Live Load, $L_v$ : 250 lbs.<br>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   |
|----------------------|--------------------------|----------|----------------|-------------------|----------|
| 90.0                 | 90.0                     | 6        | JMA Wireless   | MX06FRO660-03     | Added    |
|                      |                          | 3        | Samsung        | MT6407-77A        |          |
|                      |                          | 1        | Raycap         | RVZDC-6627-PF-48  |          |
|                      |                          | 3        | Samsung        | B2/B66A RRH-BR049 |          |
|                      |                          | 3        | Samsung        | B5/B13 RRH-BR04C  |          |
|                      |                          | 6        | Amphenol Antel | LPA-80063/4CF     | Retained |

Any proposed antennas not currently installed should be mounted such that the centerline of the antennas does not exceed 6 inches vertically from the center of the antenna mount(s).

It is acceptable to install up to any three (3) of the OVP model numbers listed below as required at any location other than the mount face without affecting the structural capacity of the mount. If OVP units are installed on the mount face, a mount re-analysis may be required.

| Model Number     | Ports | AKA    |
|------------------|-------|--------|
| DB-B1-6C-12AB-0Z | 6     | OVP-6  |
| RVZDC-6627-PF-48 | 12    | OVP-12 |

**Standard Conditions:**

1. All engineering services are performed on the basis that the information provided to Maser Consulting 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 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.
3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped by Maser Consulting, 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 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:
- Channel, Solid Round, Angle, Plate      ASTM A36 (Gr. 36)
  - HSS (Rectangular)                              ASTM 500 (Gr. B-46)
  - Pipe    ASTM A53 (Gr. B-35)
  - Threaded Rod                                    F1554 (Gr. 36)
  - Bolts    ASTM A325

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

**Analysis Results:**

| Component           | Utilization % | Pass/Fail |
|---------------------|---------------|-----------|
| Face Horizontal     | 31.4 %        | Pass      |
| Standoff Plate      | 36.6 %        | Pass      |
| Standoff Horizontal | 24.4 %        | Pass      |
| Standoff Diagonal   | 8.5 %         | Pass      |
| Antenna Pipe        | 14.0 %        | Pass      |
| Standoff Vertical   | 4.4 %         | Pass      |
| Tieback             | 5.1 %         | Pass      |
| Mount Connection    | 16.0 %        | Pass      |

|   |              |
|---|--------------|
| <b>Structure Rating – (Controlling Utilization of all Components)</b> | <b>36.6%</b> |
|---|--------------|

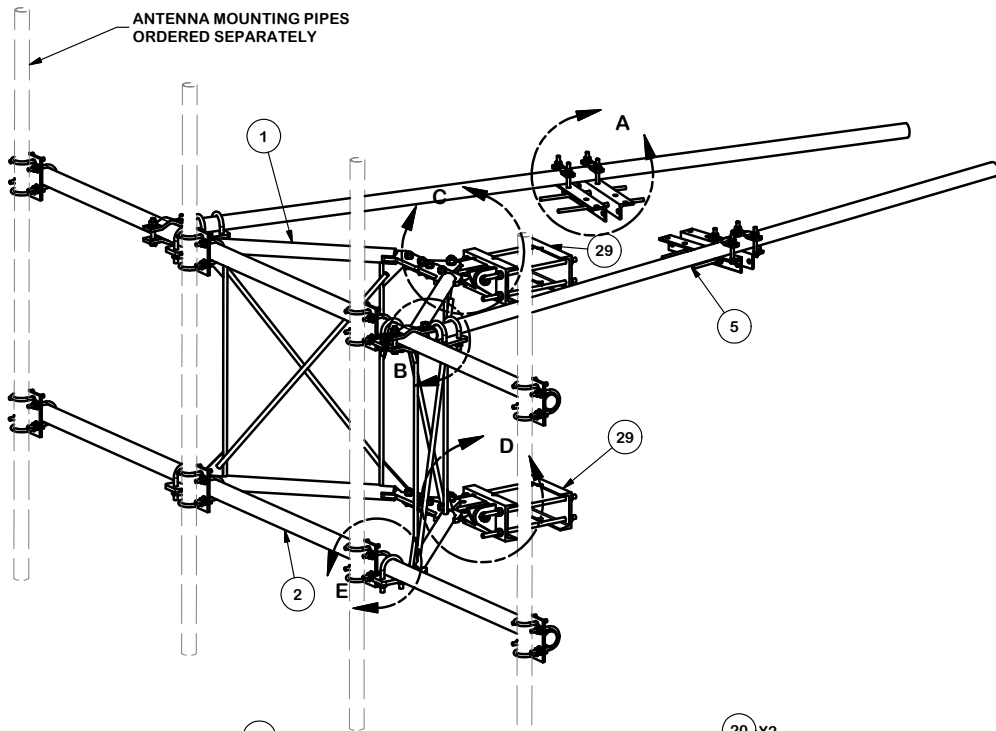
**Recommendation:**

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

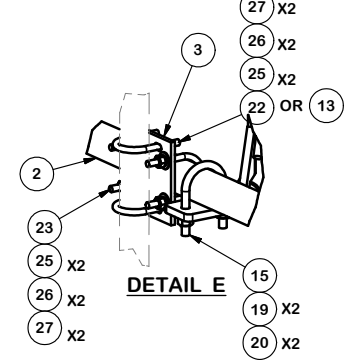
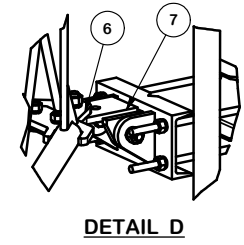
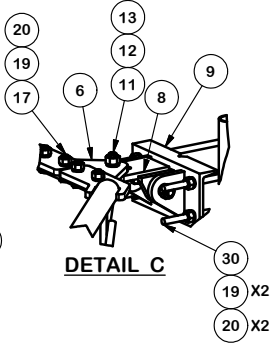
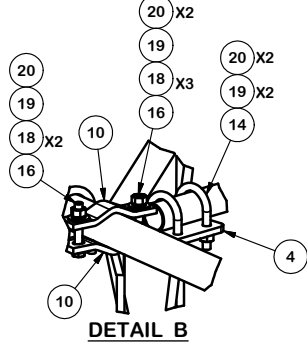
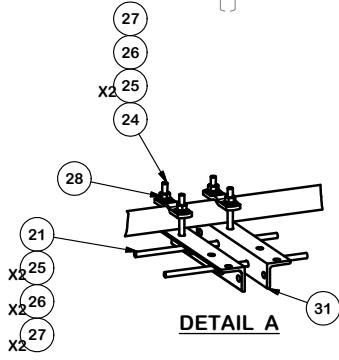
ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other, if required. Separate review fees will apply.

**Attachments:**

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



| PARTS LIST |     |          |  |           |             |         |
|------------|-----|----------|--|-----------|-------------|---------|
| ITEM       | QTY | PART NO. | PART DESCRIPTION                               | LENGTH    | UNIT WT.    | NET WT. |
| 1          | 2   | X-VFAW   | SUPPORT ARM                                    |           | 66.80       | 133.59  |
| 2          | 2   | P30150   | 2-7/8" X 150" (2-1/2" SCH. 40) GALVANIZED PIPE | 150 in    | 76.94       | 153.87  |
| 3          | 8   | SCX2     | CROSSOVER PLATE                                | 7 in      | 4.80        | 38.37   |
| 4          | 2   | X-SPTB   | SLIDING PIPE TIE BACK PLATE                    | 5 1/2 in  | 5.87        | 11.74   |
| 5          | 2   | P2126    | 2-3/8" OD X 126" SCH 40 GALVANIZED PIPE        | 126 in    | 40.75       | 81.50   |
| 6          | 2   | X-VFAPL3 | VFA-HD PIVOT PLATE                             | 24 in     | 9.69        | 19.38   |
| 7          | 1   | X-LPB    | LOWER PIVOT BRACKET                            |           | 8.84        | 8.84    |
| 8          | 1   | X-UPB    | UPPER PIVOT BRACKET                            |           | 8.84        | 8.84    |
| 9          | 2   | X-HDPMW  | HEAVY DUTY PIPE MOUNT WELDMENT                 |           | 18.61       | 37.21   |
| 10         | 4   | DCP      | 1/2" THICK, 5-3/4" CTR TO CENTER CLAMP HALF    | 8 1/8 in  | 2.42        | 9.68    |
| 11         | 6   | A34212   | 3/4" x 2-1/2" UNC HEX BOLT (A325)              | 2 1/2 in  | 0.48        | 2.87    |
| 12         | 6   | G34LW    | 3/4" HDG LOCKWASHER                            |           | 0.04        | 0.26    |
| 13         | 6   | G34NUT   | 3/4" HDG HEAVY 2H HEX NUT                      |           | 0.21        | 1.27    |
| 14         | 4   | X-UB5258 | 5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.)      |           | 1.00        | 4.00    |
| 15         | 4   | X-UB5300 | 5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.)      |           | 1.15        | 4.60    |
| 16         | 4   | G5804    | 5/8" x 4" HDG HEX BOLT GR5                     |           | 0.44        | 1.78    |
| 17         | 8   | A582114  | 5/8" x 2-1/4" HDG A325 HEX BOLT                | 2 1/4 in  | 0.31        | 2.50    |
| 18         | 10  | G58FW    | 5/8" HDG USS FLATWASHER                        | 1/8 in    | 0.07        | 0.70    |
| 19         | 44  | G58LW    | 5/8" HDG LOCKWASHER                            |           | 0.03        | 1.15    |
| 20         | 46  | G58NUT   | 5/8" HDG HEAVY 2H HEX NUT                      |           | 0.13        | 5.98    |
| 21         | 4   | G12R-15  | 1/2" x 15" THREADED ROD (HDG.)                 |           | 0.40        | 1.60    |
| 22         | 16  | X-UB1212 | 1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)      |           | 0.26        | 4.11    |
| 23         | 32  | X-UB1300 | 1/2" X 3" X 5" X 2" GALV U-BOLT                |           | 0.74        | 23.64   |
| 24         | 8   | G12045   | 1/2" x 4.5" HDG HEX BOLT GR5 FULL THREAD       | 4 1/2 in  | 0.30        | 2.38    |
| 25         | 88  | G12FW    | 1/2" HDG USS FLATWASHER                        | 3/32 in   | 0.03        | 3.00    |
| 26         | 80  | G12LW    | 1/2" HDG LOCKWASHER                            | 1/8 in    | 0.01        | 1.11    |
| 27         | 80  | G12NUT   | 1/2" HDG HEAVY 2H HEX NUT                      |           | 0.07        | 5.73    |
| 28         | 4   | X-100064 | CLAMP (4" V-CLAMP) GALVANIZED                  |           | 0.91        | 3.65    |
| 29         | 2   | X-HDPMBP | HEAVY DUTY PIPE MOUNT BACKING PLATE            | 12 in     | 13.44       | 26.89   |
| 30         | 8   | G58R-18  | 5/8" x 18" THREADED ROD (HDG.)                 | 18 in     | 0.40        | 3.19    |
| 31         | 4   | X-LLTB   | ANGLE BRACKET FOR LLTB                         | 16 1/2 in | 7.06        | 28.25   |
|            |     |          |  |           | TOTAL WT. # | 648.71  |



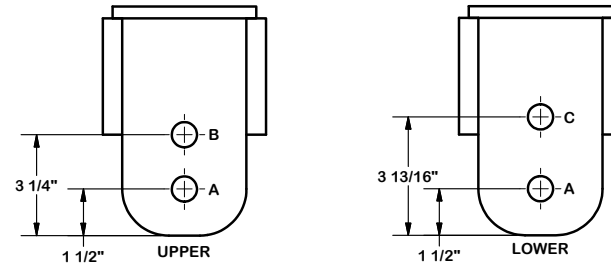
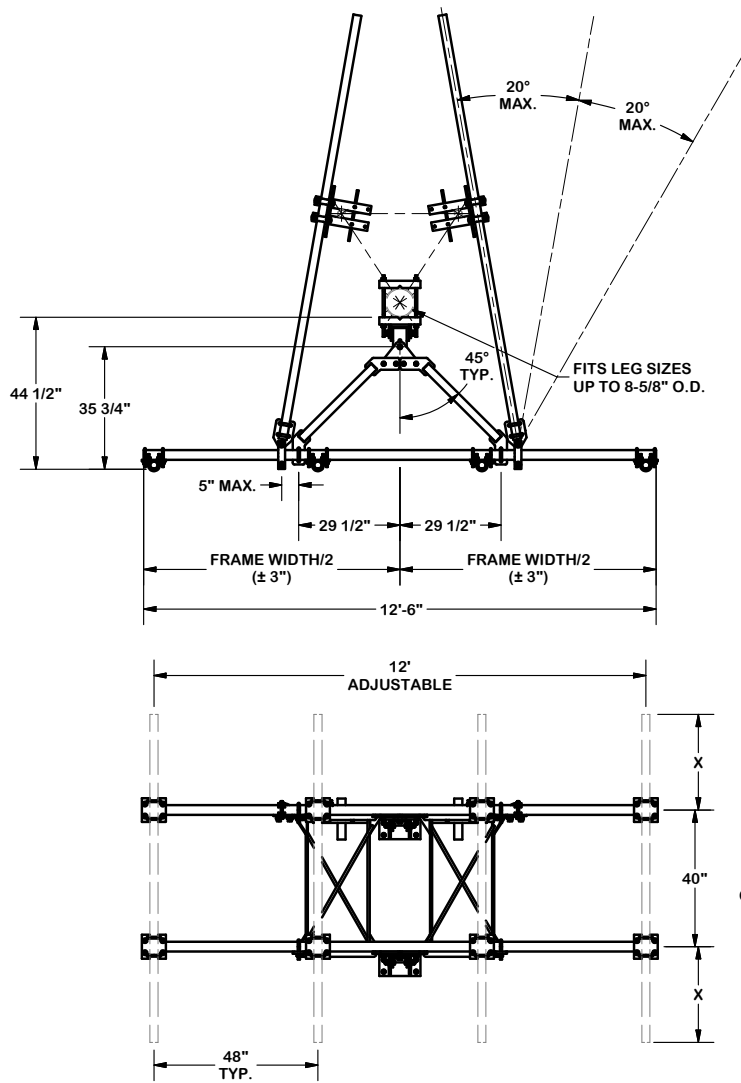
**TOLERANCE NOTES**  
 TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:  
 SAWED, SHEARED AND GAS CUT EDGES ( $\pm 0.030"$ )  
 DRILLED AND GAS CUT HOLES ( $\pm 0.030"$ ) - NO CONING OF HOLES  
 LASER CUT EDGES AND HOLES ( $\pm 0.010"$ ) - NO CONING OF HOLES  
 BENDS ARE  $\pm 1/2$  DEGREE  
 ALL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

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

|             |               |  |  |
|-------------|---------------|--|--|
| DESCRIPTION |               | 12'-6" HEAVY DUTY V-FRAME ASSEMBLY WITH TWO STIFF ARMS |  |
| CPD NO.     | DRAWN BY      | ENG. APPROVAL  |  |
|             | CEK           | 6/1/2015   |  |
| CLASS       | DRAWING USAGE | CHECKED BY   |  |
| 81          | 02            | CUSTOMER   |  |
|             |               | DATE   |  |
|             |               | 2/2/2017   |  |

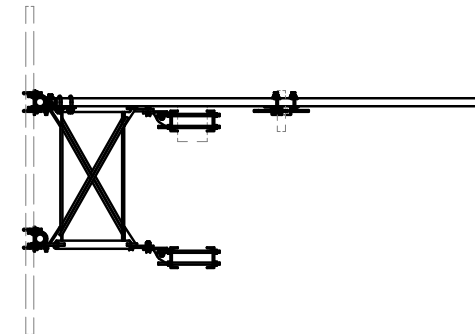
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|------------------------------|---|
| <br><b>A valmont COMPANY</b> | Locations:<br>New York, NY<br>Atlanta, GA<br>Los Angeles, CA<br>Plymouth, IN<br>Salem, OR<br>Dallas, TX |
|                              | Engineering Support Team:<br>1-888-753-7446   |
| PART NO.                     | VFA12-HD  |
| DWG. NO.                     | VFA12-HD  |

| REV              | DESCRIPTION OF REVISIONS          | CPD | BY | DATE     |
|------------------|-----------------------------------|-----|----|----------|
| A                | CHANGED TIE-BACK FRONT CONNECTION | CEK |    | 2/2/2017 |
| REVISION HISTORY |                                   |     |    |          |



**NOTES:**

1. USE HOLE "A" IN UPPER AND LOWER BRACKETS FOR STRAIGHT LEGS.
2. USE HOLE "A" IN UPPER BRACKET AND HOLE "C" IN LOWER BRACKET FOR 2" IN 20' TAPER LEGS (3.309")
3. USE HOLE "B" IN UPPER BRACKET AND HOLE "C" IN LOWER BRACKET FOR 6" IN 20' TAPER LEGS. (0.827")



**TOLERANCE NOTES**

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

PROPRIETARY NOTE:  
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DESCRIPTION  
 12'-6" HEAVY DUTY  
 V-FRAME ASSEMBLY  
 WITH TWO STIFF ARMS



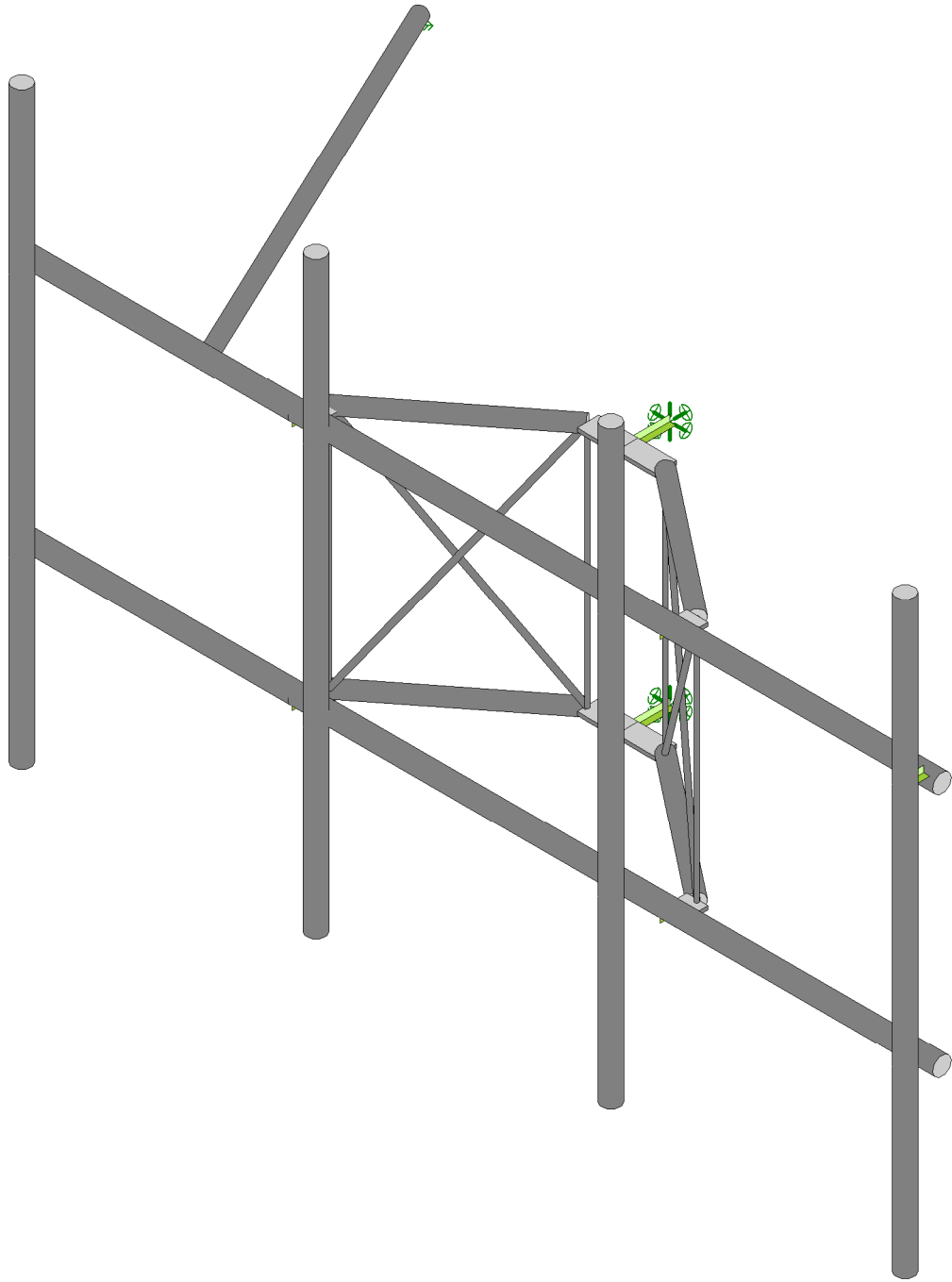
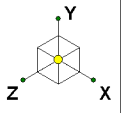
Engineering Support Team:  
 1-888-753-7446

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

| REV | DESCRIPTION OF REVISIONS          | CPD | BY | DATE     |
|-----|-----------------------------------|-----|----|----------|
| A   | CHANGED TIE-BACK FRONT CONNECTION | CEK |    | 2/2/2017 |

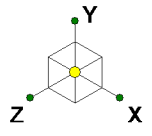
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| CPD NO. | DRAWN BY | ENG. APPROVAL |
|         | CEK      | 6/1/2015      |
| CLASS   | SUB      | DRAWING USAGE |
| 81      | 02       | CUSTOMER      |
|         |          | CHECKED BY    |
|         |          | BMC           |
|         |          | 2/2/2017      |

|          |          |
|----------|----------|
| PART NO. | VFA12-HD |
| DWG. NO. | VFA12-HD |



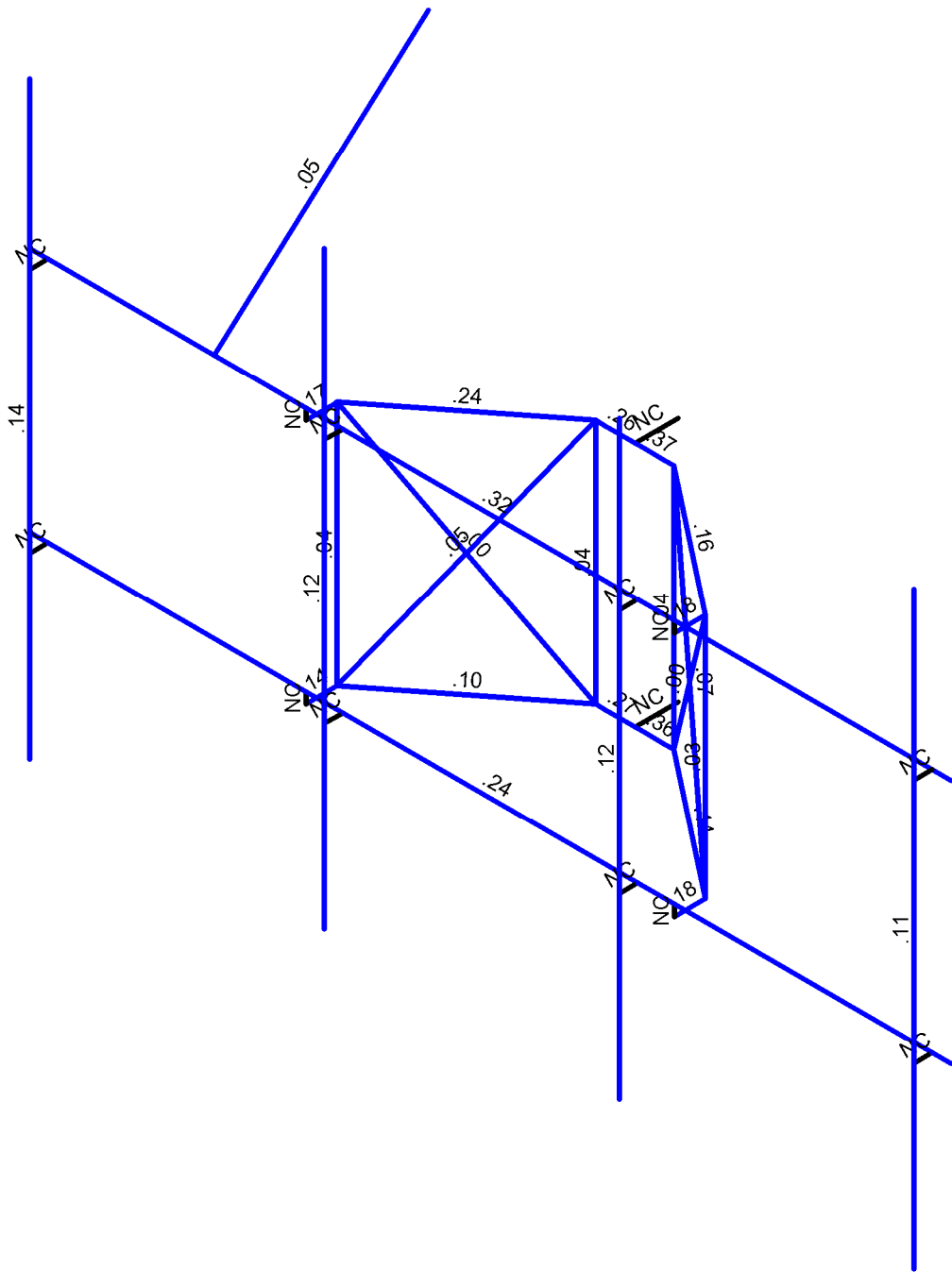
Envelope Only Solution

|  |  |                           |
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|  |  | June 30, 2021 at 9:00 AM  |
|  |  | 469110-VZW_MT_LOT_A_H.r3d |



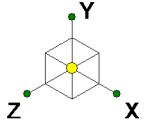
Code Check (Env)

|         |         |
|---------|---------|
| Black   | No Calc |
| Red     | > 1.0   |
| Magenta | .90-1.0 |
| Green   | .75-.90 |
| Cyan    | .50-.75 |
| Blue    | 0-.50   |



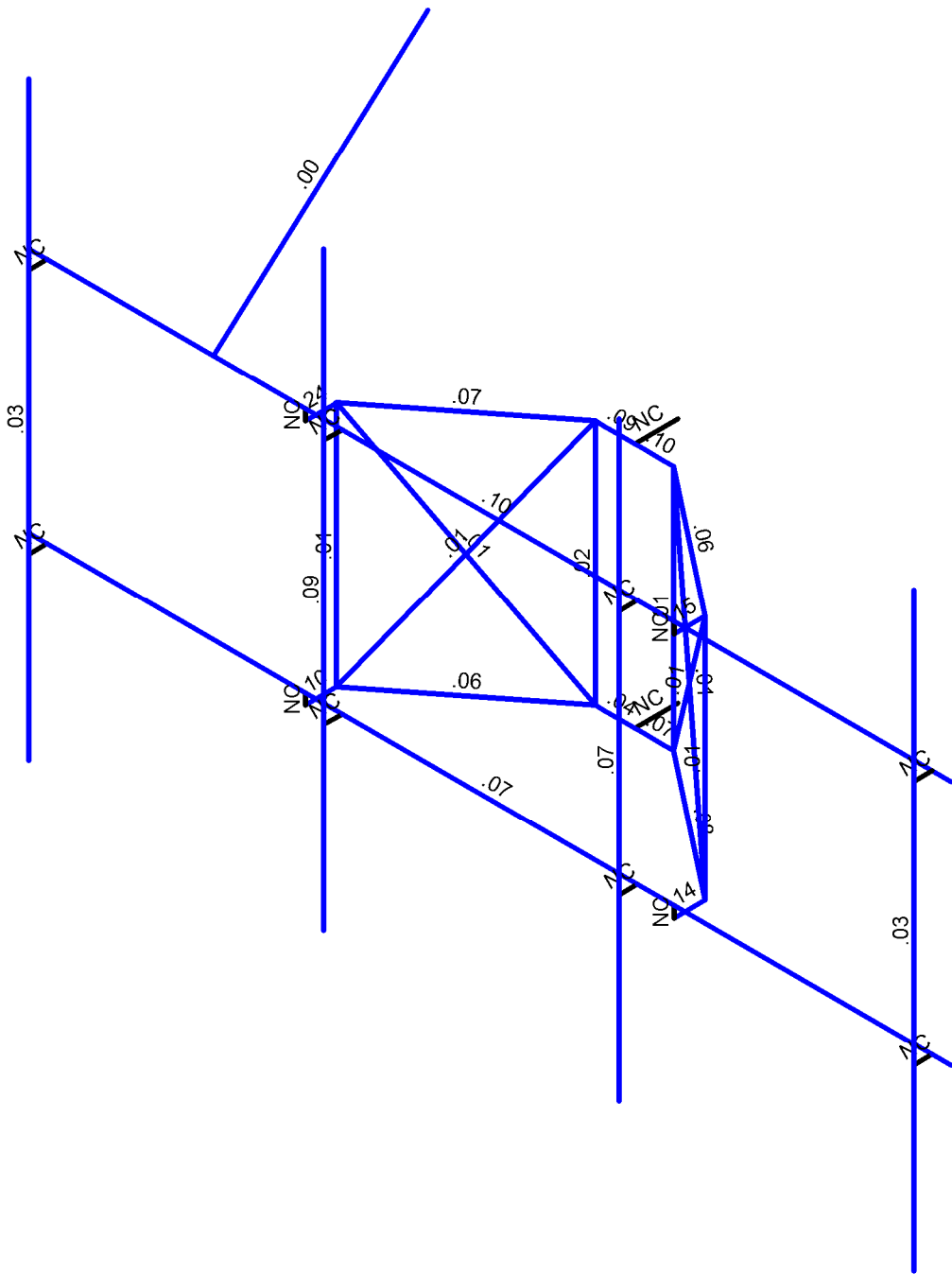
Member Code Checks Displayed (Enveloped)  
Envelope Only Solution

|  |  |                           |
|--|--|---------------------------|
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|  |  | July 2, 2021 at 4:09 PM   |
|  |  | 469110-VZW_MT_LOT_A_H.r3d |



Shear Check  
( Env )

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



Member Shear Checks Displayed (Enveloped)  
Envelope Only Solution

|  |  |                           |
|--|--|---------------------------|
|  |  | SK - 3                    |
|  |  | July 2, 2021 at 4:09 PM   |
|  |  | 469110-VZW_MT_LOT_A_H.r3d |



Company :  
 Designer :  
 Job Number :  
 Model Name :

July 2, 2021  
 4:10 PM  
 Checked By: \_\_\_\_\_

### Basic Load Cases

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





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**Basic Load Cases (Continued)**

| BLC Description           | Category | X Gravity | Y Gravity | Z Gravity | Joint | Point | DistributedArea(Me...Surface(... |
|---------------------------|----------|-----------|-----------|-----------|-------|-------|----------------------------------|
| 54 Structure Wi (30 Deg)  | None     |           |           |           |       |       | 54                               |
| 55 Structure Wi (60 Deg)  | None     |           |           |           |       |       | 54                               |
| 56 Structure Wi (90 Deg)  | None     |           |           |           |       |       | 54                               |
| 57 Structure Wi (120 Deg) | None     |           |           |           |       |       | 54                               |
| 58 Structure Wi (150 Deg) | None     |           |           |           |       |       | 54                               |
| 59 Structure Wi (180 Deg) | None     |           |           |           |       |       | 54                               |
| 60 Structure Wi (210 Deg) | None     |           |           |           |       |       | 54                               |
| 61 Structure Wi (240 Deg) | None     |           |           |           |       |       | 54                               |
| 62 Structure Wi (270 Deg) | None     |           |           |           |       |       | 54                               |
| 63 Structure Wi (300 Deg) | None     |           |           |           |       |       | 54                               |
| 64 Structure Wi (330 Deg) | None     |           |           |           |       |       | 54                               |
| 65 Structure Wm (0 Deg)   | None     |           |           |           |       |       | 54                               |
| 66 Structure Wm (30 Deg)  | None     |           |           |           |       |       | 54                               |
| 67 Structure Wm (60 Deg)  | None     |           |           |           |       |       | 54                               |
| 68 Structure Wm (90 Deg)  | None     |           |           |           |       |       | 54                               |
| 69 Structure Wm (120 Deg) | None     |           |           |           |       |       | 54                               |
| 70 Structure Wm (150 Deg) | None     |           |           |           |       |       | 54                               |
| 71 Structure Wm (180 Deg) | None     |           |           |           |       |       | 54                               |
| 72 Structure Wm (210 Deg) | None     |           |           |           |       |       | 54                               |
| 73 Structure Wm (240 Deg) | None     |           |           |           |       |       | 54                               |
| 74 Structure Wm (270 Deg) | None     |           |           |           |       |       | 54                               |
| 75 Structure Wm (300 Deg) | None     |           |           |           |       |       | 54                               |
| 76 Structure Wm (330 Deg) | None     |           |           |           |       |       | 54                               |
| 77 Lm1                    | None     |           |           |           |       | 1     |                                  |
| 78 Lm2                    | None     |           |           |           |       | 1     |                                  |
| 79 Lv1                    | None     |           |           |           |       | 1     |                                  |
| 80 Lv2                    | None     |           |           |           |       | 1     |                                  |

**Load Combinations**

| Description                     | S... | PDelta | S... | B... | Fa... | B... | Fa... | B... | Fa... | B... | Fa... | B... | Fa... | B... | Fa... | B... | Fa... | B... | Fa... |
|---------------------------------|------|--------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|
| 1 1.2D+1.0Wo (0 Deg)            | Yes  | Y      | 1    | 1.2  | 39    | 1.2  | 3     | 1    | 41    | 1    |       |      |       |      |       |      |       |      |       |
| 2 1.2D+1.0Wo (30 Deg)           | Yes  | Y      | 1    | 1.2  | 39    | 1.2  | 4     | 1    | 42    | 1    |       |      |       |      |       |      |       |      |       |
| 3 1.2D+1.0Wo (60 Deg)           | Yes  | Y      | 1    | 1.2  | 39    | 1.2  | 5     | 1    | 43    | 1    |       |      |       |      |       |      |       |      |       |
| 4 1.2D+1.0Wo (90 Deg)           | Yes  | Y      | 1    | 1.2  | 39    | 1.2  | 6     | 1    | 44    | 1    |       |      |       |      |       |      |       |      |       |
| 5 1.2D+1.0Wo (120 Deg)          | Yes  | Y      | 1    | 1.2  | 39    | 1.2  | 7     | 1    | 45    | 1    |       |      |       |      |       |      |       |      |       |
| 6 1.2D+1.0Wo (150 Deg)          | Yes  | Y      | 1    | 1.2  | 39    | 1.2  | 8     | 1    | 46    | 1    |       |      |       |      |       |      |       |      |       |
| 7 1.2D+1.0Wo (180 Deg)          | Yes  | Y      | 1    | 1.2  | 39    | 1.2  | 9     | 1    | 47    | 1    |       |      |       |      |       |      |       |      |       |
| 8 1.2D+1.0Wo (210 Deg)          | Yes  | Y      | 1    | 1.2  | 39    | 1.2  | 10    | 1    | 48    | 1    |       |      |       |      |       |      |       |      |       |
| 9 1.2D+1.0Wo (240 Deg)          | Yes  | Y      | 1    | 1.2  | 39    | 1.2  | 11    | 1    | 49    | 1    |       |      |       |      |       |      |       |      |       |
| 10 1.2D+1.0Wo (270 Deg)         | Yes  | Y      | 1    | 1.2  | 39    | 1.2  | 12    | 1    | 50    | 1    |       |      |       |      |       |      |       |      |       |
| 11 1.2D+1.0Wo (300 Deg)         | Yes  | Y      | 1    | 1.2  | 39    | 1.2  | 13    | 1    | 51    | 1    |       |      |       |      |       |      |       |      |       |
| 12 1.2D+1.0Wo (330 Deg)         | Yes  | Y      | 1    | 1.2  | 39    | 1.2  | 14    | 1    | 52    | 1    |       |      |       |      |       |      |       |      |       |
| 13 1.2D + 1.0Di + 1.0Wi (0 ...) | Yes  | Y      | 1    | 1.2  | 39    | 1.2  | 2     | 1    | 40    | 1    | 15    | 1    | 53    | 1    |       |      |       |      |       |
| 14 1.2D + 1.0Di + 1.0Wi (30...  | Yes  | Y      | 1    | 1.2  | 39    | 1.2  | 2     | 1    | 40    | 1    | 16    | 1    | 54    | 1    |       |      |       |      |       |
| 15 1.2D + 1.0Di + 1.0Wi (60...  | Yes  | Y      | 1    | 1.2  | 39    | 1.2  | 2     | 1    | 40    | 1    | 17    | 1    | 55    | 1    |       |      |       |      |       |
| 16 1.2D + 1.0Di + 1.0Wi (90...  | Yes  | Y      | 1    | 1.2  | 39    | 1.2  | 2     | 1    | 40    | 1    | 18    | 1    | 56    | 1    |       |      |       |      |       |
| 17 1.2D + 1.0Di + 1.0Wi (12...  | Yes  | Y      | 1    | 1.2  | 39    | 1.2  | 2     | 1    | 40    | 1    | 19    | 1    | 57    | 1    |       |      |       |      |       |
| 18 1.2D + 1.0Di + 1.0Wi (15...  | Yes  | Y      | 1    | 1.2  | 39    | 1.2  | 2     | 1    | 40    | 1    | 20    | 1    | 58    | 1    |       |      |       |      |       |
| 19 1.2D + 1.0Di + 1.0Wi (18...  | Yes  | Y      | 1    | 1.2  | 39    | 1.2  | 2     | 1    | 40    | 1    | 21    | 1    | 59    | 1    |       |      |       |      |       |
| 20 1.2D + 1.0Di + 1.0Wi (21...  | Yes  | Y      | 1    | 1.2  | 39    | 1.2  | 2     | 1    | 40    | 1    | 22    | 1    | 60    | 1    |       |      |       |      |       |
| 21 1.2D + 1.0Di + 1.0Wi (24...  | Yes  | Y      | 1    | 1.2  | 39    | 1.2  | 2     | 1    | 40    | 1    | 23    | 1    | 61    | 1    |       |      |       |      |       |
| 22 1.2D + 1.0Di + 1.0Wi (27...  | Yes  | Y      | 1    | 1.2  | 39    | 1.2  | 2     | 1    | 40    | 1    | 24    | 1    | 62    | 1    |       |      |       |      |       |
| 23 1.2D + 1.0Di + 1.0Wi (30...  | Yes  | Y      | 1    | 1.2  | 39    | 1.2  | 2     | 1    | 40    | 1    | 25    | 1    | 63    | 1    |       |      |       |      |       |
| 24 1.2D + 1.0Di + 1.0Wi (33...  | Yes  | Y      | 1    | 1.2  | 39    | 1.2  | 2     | 1    | 40    | 1    | 26    | 1    | 64    | 1    |       |      |       |      |       |
| 25 1.2D + 1.5Lm1 + 1.0Wm...     | Yes  | Y      | 1    | 1.2  | 39    | 1.2  | 77    | 1.5  | 27    | 1    | 65    | 1    |       |      |       |      |       |      |       |





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**Joint Coordinates and Temperatures (Continued)**

|    | Label | X [ft]    | Y [ft]   | Z [ft]   | Temp [F] | Detach From Diap... |
|----|-------|-----------|----------|----------|----------|---------------------|
| 14 | N18   | -0.833333 | 3.979167 | 8.333333 | 0        |                     |
| 15 | N19   | 3.166667  | 0.645833 | 8.333333 | 0        |                     |
| 16 | N20   | 3.166667  | 3.979167 | 8.333333 | 0        |                     |
| 17 | N21   | -5.333333 | .5       | 8.083333 | 0        |                     |
| 18 | N22   | -5.333333 | 3.833333 | 8.083333 | 0        |                     |
| 19 | N23   | -0.333333 | .5       | 8.083333 | 0        |                     |
| 20 | N24   | -0.333333 | 3.833333 | 8.083333 | 0        |                     |
| 21 | N25   | -5.333333 | .5       | 7.661458 | 0        |                     |
| 22 | N26   | -5.333333 | 3.833333 | 7.661458 | 0        |                     |
| 23 | N27   | -0.333333 | .5       | 7.661458 | 0        |                     |
| 24 | N28   | -0.333333 | 3.833333 | 7.661458 | 0        |                     |
| 25 | N29   | -2.833333 | .5       | 6.119792 | 0        |                     |
| 26 | N30   | -2.833333 | 3.833333 | 6.119792 | 0        |                     |
| 27 | N31   | -3.364583 | .5       | 6.119792 | 0        |                     |
| 28 | N32   | -3.364583 | 3.833333 | 6.119792 | 0        |                     |
| 29 | N33   | -2.302083 | .5       | 6.119792 | 0        |                     |
| 30 | N34   | -2.302083 | 3.833333 | 6.119792 | 0        |                     |
| 31 | N35   | -2.833333 | .5       | 5.536125 | 0        |                     |
| 32 | N36   | -2.833333 | 3.833333 | 5.536125 | 0        |                     |
| 33 | N39   | -4.833333 | 6.2285   | 8.333333 | 0        |                     |
| 34 | N41   | -0.833333 | 6.2285   | 8.333333 | 0        |                     |
| 35 | N42   | 3.166667  | 6.2285   | 8.333333 | 0        |                     |
| 36 | N43   | -4.833333 | -1.7715  | 8.333333 | 0        |                     |
| 37 | N45   | -0.833333 | -1.7715  | 8.333333 | 0        |                     |
| 38 | N46   | 3.166667  | -1.7715  | 8.333333 | 0        |                     |
| 39 | N58   | -5.333333 | 3.833333 | 7.708333 | 0        |                     |
| 40 | N76   | -2.927083 | .5       | 6.119792 | 0        |                     |
| 41 | N77   | -3.229167 | .5       | 6.119792 | 0        |                     |
| 42 | N78   | -2.739583 | .5       | 6.119792 | 0        |                     |
| 43 | N79   | -2.4375   | .5       | 6.119792 | 0        |                     |
| 44 | N80   | -2.927083 | 3.833333 | 6.119792 | 0        |                     |
| 45 | N81   | -3.229167 | 3.833333 | 6.119792 | 0        |                     |
| 46 | N82   | -2.739583 | 3.833333 | 6.119792 | 0        |                     |
| 47 | N83   | -2.4375   | 3.833333 | 6.119792 | 0        |                     |
| 48 | N59   | -5.333333 | 0.645833 | 8.083333 | 0        |                     |
| 49 | N60   | -5.333333 | 3.979167 | 8.083333 | 0        |                     |
| 50 | N61   | -0.333333 | 0.645833 | 8.083333 | 0        |                     |
| 51 | N62   | -0.333333 | 3.979167 | 8.083333 | 0        |                     |
| 52 | N61A  | -9.177488 | 3.979167 | 2.577797 | 0        |                     |
| 53 | N61B  | -8.833333 | 0.645833 | 8.083333 | 0        |                     |
| 54 | N62A  | -8.833333 | 3.979167 | 8.083333 | 0        |                     |
| 55 | N63   | -8.833333 | 0.645833 | 8.333333 | 0        |                     |
| 56 | N64   | -8.833333 | 3.979167 | 8.333333 | 0        |                     |
| 57 | N65   | -8.833333 | 6.2285   | 8.333333 | 0        |                     |
| 58 | N66   | -8.833333 | -1.7715  | 8.333333 | 0        |                     |
| 59 | N65A  | -6.583333 | 3.979167 | 8.083333 | 0        |                     |

**Hot Rolled Steel Section Sets**

|   | Label                 | Shape    | Type | Design List | Material  | Design ... | A [in2] | Iyy [in4] | Izz [in4] | J [in4] |
|---|-----------------------|----------|------|-------------|-----------|------------|---------|-----------|-----------|---------|
| 1 | Antenna Pipe          | PIPE 2.0 | Beam | Pipe        | 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 | Beam | BAR         | Q235      | Typical    | .307    | .007      | .007      | .015    |



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**Hot Rolled Steel Section Sets (Continued)**

|   | Label               | Shape     | Type   | Design List | Material  | Design ... | A [in2] | Iyy [in4] | Izz [in4] | J [in4] |
|---|---------------------|-----------|--------|-------------|-----------|------------|---------|-----------|-----------|---------|
| 7 | Standoff Plate      | PL5/8X3.5 | Beam   | BAR         | Q235      | Typical    | 2.188   | .071      | 2.233     | .253    |
| 8 | Antenna Pipe (P2.5) | PIPE_2.5  | Column | Pipe        | A53 Gr. B | Typical    | 1.61    | 1.45      | 1.45      | 2.89    |

**Hot Rolled Steel Properties**

|   | Label         | E [ksi] | G [ksi] | Nu | Therm (/1... | Density[k/ft^3] | Yield[ksi] | Ry  | Fu[ksi] | Rt  |
|---|---------------|---------|---------|----|--------------|-----------------|------------|-----|---------|-----|
| 1 | A36 Gr.36     | 29000   | 11154   | .3 | .65          | .49             | 36         | 1.5 | 58      | 1.2 |
| 2 | 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  | M3    | N5      | N13     |         |             | RIGID              | None   | None        | RIGID     | Typical      |
| 4  | M4    | N6      | N14     |         |             | RIGID              | None   | None        | RIGID     | Typical      |
| 5  | M9    | N10     | N18     |         |             | RIGID              | None   | None        | RIGID     | Typical      |
| 6  | M10   | N9      | N17     |         |             | RIGID              | None   | None        | RIGID     | Typical      |
| 7  | M11   | N12     | N20     |         |             | RIGID              | None   | None        | RIGID     | Typical      |
| 8  | M12   | N11     | N19     |         |             | RIGID              | None   | None        | RIGID     | Typical      |
| 9  | M13   | N22     | N26     |         | 90          | Standoff Plate     | Beam   | BAR         | Q235      | Typical      |
| 10 | M14   | N21     | N25     |         | 90          | Standoff Plate     | Beam   | BAR         | Q235      | Typical      |
| 11 | M15   | N23     | N27     |         | 90          | Standoff Plate     | Beam   | BAR         | Q235      | Typical      |
| 12 | M16   | N24     | N28     |         | 90          | Standoff Plate     | Beam   | BAR         | Q235      | Typical      |
| 13 | OVP   | N26     | N32     |         |             | Standoff Horiz...  | Beam   | Pipe        | Q235      | Typical      |
| 14 | M18   | N25     | N31     |         |             | Standoff Horiz...  | Beam   | Pipe        | Q235      | Typical      |
| 15 | M19   | N27     | N33     |         |             | Standoff Horiz...  | Beam   | Pipe        | Q235      | Typical      |
| 16 | M20   | N28     | N34     |         |             | Standoff Horiz...  | Beam   | Pipe        | Q235      | Typical      |
| 17 | M21   | N32     | N30     |         | 90          | Standoff Plate     | Beam   | BAR         | Q235      | Typical      |
| 18 | M22   | N34     | N30     |         | 90          | Standoff Plate     | Beam   | BAR         | Q235      | Typical      |
| 19 | M23   | N31     | N29     |         | 90          | Standoff Plate     | Beam   | BAR         | Q235      | Typical      |
| 20 | M24   | N33     | N29     |         | 90          | Standoff Plate     | Beam   | BAR         | Q235      | Typical      |
| 21 | M25   | N31     | N26     |         |             | Standoff Diago...  | Beam   | BAR         | Q235      | Typical      |
| 22 | M26   | N32     | N25     |         |             | Standoff Diago...  | Beam   | BAR         | Q235      | Typical      |
| 23 | M27   | N33     | N28     |         |             | Standoff Diago...  | Beam   | BAR         | Q235      | Typical      |
| 24 | M28   | N27     | N34     |         |             | Standoff Diago...  | Beam   | BAR         | Q235      | Typical      |
| 25 | M29   | N29     | N35     |         |             | RIGID              | None   | None        | RIGID     | Typical      |
| 26 | M30   | N30     | N36     |         |             | RIGID              | None   | None        | RIGID     | Typical      |
| 27 | MP3A  | N39     | N43     |         |             | Antenna Pipe (...) | Column | Pipe        | A53 Gr. B | Typical      |
| 28 | MP2A  | N41     | N45     |         |             | Antenna Pipe (...) | Column | Pipe        | A53 Gr. B | Typical      |
| 29 | MP1A  | N42     | N46     |         |             | Antenna Pipe (...) | Column | Pipe        | A53 Gr. B | Typical      |
| 30 | M44   | N25     | N26     |         |             | Standoff Vertical  | Beam   | BAR         | Q235      | Typical      |
| 31 | M45   | N31     | N32     |         |             | Standoff Vertical  | Beam   | BAR         | Q235      | Typical      |
| 32 | M46   | N33     | N34     |         |             | Standoff Vertical  | Beam   | BAR         | Q235      | Typical      |
| 33 | M47   | N27     | N28     |         |             | Standoff Vertical  | Beam   | BAR         | Q235      | Typical      |
| 34 | M47B  | N22     | N60     |         |             | RIGID              | None   | None        | RIGID     | Typical      |
| 35 | M48A  | N21     | N59     |         |             | RIGID              | None   | None        | RIGID     | Typical      |
| 36 | M49A  | N24     | N62     |         |             | RIGID              | None   | None        | RIGID     | Typical      |
| 37 | M50A  | N23     | N61     |         |             | RIGID              | None   | None        | RIGID     | Typical      |
| 38 | M51A  | N30     | N36     |         |             | RIGID              | None   | None        | RIGID     | Typical      |
| 39 | M52A  | N29     | N35     |         |             | 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 |
|----|-------|---------|---------|---------|-------------|--------------------|--------|-------------|-----------|--------------|
| 40 | M43   | N65A    | N61A    |         |             | Tieback            | Beam   | Pipe        | Q235      | Typical      |
| 41 | M44A  | N61B    | N63     |         |             | RIGID              | None   | None        | RIGID     | Typical      |
| 42 | M45A  | N62A    | N64     |         |             | RIGID              | None   | None        | RIGID     | Typical      |
| 43 | MP4A  | N65     | N66     |         |             | Antenna Pipe (...) | Column | Pipe        | 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  | M3    |           |           |              |              |          | Yes          | ** NA **    |              |          | None       |
| 4  | M4    |           |           |              |              |          | Yes          | ** NA **    |              |          | None       |
| 5  | M9    |           |           |              |              |          | Yes          | ** NA **    |              |          | None       |
| 6  | M10   |           |           |              |              |          | Yes          | ** NA **    |              |          | None       |
| 7  | M11   |           |           |              |              |          | Yes          | ** NA **    |              |          | None       |
| 8  | M12   |           |           |              |              |          | Yes          | ** NA **    |              |          | None       |
| 9  | M13   |           |           |              |              |          | Yes          | Default     |              |          | None       |
| 10 | M14   |           |           |              |              |          | Yes          | Default     |              |          | None       |
| 11 | M15   |           |           |              |              |          | Yes          |             |              |          | None       |
| 12 | M16   |           |           |              |              |          | Yes          |             |              |          | None       |
| 13 | OVP   |           |           |              |              |          | Yes          | Default     |              |          | None       |
| 14 | M18   |           |           |              |              |          | Yes          |             |              |          | None       |
| 15 | M19   |           |           |              |              |          | Yes          |             |              |          | None       |
| 16 | M20   |           |           |              |              |          | Yes          | Default     |              |          | None       |
| 17 | M21   |           |           |              |              |          | Yes          | Default     |              |          | None       |
| 18 | M22   |           |           |              |              |          | Yes          |             |              |          | None       |
| 19 | M23   |           |           |              |              |          | Yes          |             |              |          | None       |
| 20 | M24   |           |           |              |              |          | Yes          |             |              |          | None       |
| 21 | M25   | BenPIN    | BenPIN    |              |              |          | Euler Buc... | Yes         | Default      |          | None       |
| 22 | M26   | BenPIN    | BenPIN    |              |              |          | Euler Buc... | Yes         | Default      |          | None       |
| 23 | M27   | BenPIN    | BenPIN    |              |              |          | Euler Buc... | Yes         |              |          | None       |
| 24 | M28   | BenPIN    | BenPIN    |              |              |          | Euler Buc... | Yes         |              |          | None       |
| 25 | M29   |           |           |              |              |          | Yes          | ** NA **    |              | Inactive | None       |
| 26 | M30   |           |           |              |              |          | Yes          | ** NA **    |              | Inactive | None       |
| 27 | MP3A  |           |           |              |              |          | Yes          | ** NA **    |              |          | None       |
| 28 | MP2A  |           |           |              |              |          | Yes          | ** NA **    |              |          | None       |
| 29 | MP1A  |           |           |              |              |          | Yes          | ** NA **    |              |          | None       |
| 30 | M44   | BenPIN    | BenPIN    |              |              |          | Yes          |             |              |          | None       |
| 31 | M45   | BenPIN    | BenPIN    |              |              |          | Yes          |             |              |          | None       |
| 32 | M46   | BenPIN    | BenPIN    |              |              |          | Yes          |             |              |          | None       |
| 33 | M47   | BenPIN    | BenPIN    |              |              |          | Yes          | Default     |              |          | None       |
| 34 | M47B  |           | OOOXOO    |              |              |          | Yes          | ** NA **    |              |          | None       |
| 35 | M48A  |           | OOOXOO    |              |              |          | Yes          | ** NA **    |              |          | None       |
| 36 | M49A  |           | OOOXOO    |              |              |          | Yes          | ** NA **    |              |          | None       |
| 37 | M50A  |           | OOOXOO    |              |              |          | Yes          | ** NA **    |              |          | None       |
| 38 | M51A  |           |           |              |              |          | Yes          | ** NA **    |              |          | None       |
| 39 | M52A  |           |           |              |              |          | Yes          | ** NA **    |              |          | None       |
| 40 | M43   | BenPIN    |           |              |              |          | Yes          | Default     |              |          | None       |
| 41 | M44A  |           |           |              |              |          | Yes          | ** NA **    |              |          | None       |
| 42 | M45A  |           |           |              |              |          | Yes          | ** NA **    |              |          | None       |
| 43 | MP4A  |           |           |              |              |          | Yes          | ** NA **    |              |          | None       |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | Y         | -23                | 2              |
| 2  | MP2A         | My        | -.017              | 2              |
| 3  | MP2A         | Mz        | .015               | 2              |
| 4  | MP2A         | Y         | -23                | 6              |
| 5  | MP2A         | My        | -.017              | 6              |
| 6  | MP2A         | Mz        | .015               | 6              |
| 7  | MP2A         | Y         | -23                | 2              |
| 8  | MP2A         | My        | -.017              | 2              |
| 9  | MP2A         | Mz        | -.015              | 2              |
| 10 | MP2A         | Y         | -23                | 6              |
| 11 | MP2A         | My        | -.017              | 6              |
| 12 | MP2A         | Mz        | -.015              | 6              |
| 13 | MP3A         | Y         | -43.55             | 3              |
| 14 | MP3A         | My        | -.033              | 3              |
| 15 | MP3A         | Mz        | 0                  | 3              |
| 16 | MP3A         | Y         | -43.55             | 5              |
| 17 | MP3A         | My        | -.033              | 5              |
| 18 | MP3A         | Mz        | 0                  | 5              |
| 19 | OVP          | Y         | -32                | 1.5            |
| 20 | OVP          | My        | 0                  | 1.5            |
| 21 | OVP          | Mz        | 0                  | 1.5            |
| 22 | MP2A         | Y         | -84.4              | 4.5            |
| 23 | MP2A         | My        | .042               | 4.5            |
| 24 | MP2A         | Mz        | 0                  | 4.5            |
| 25 | MP1A         | Y         | -70.3              | 4.5            |
| 26 | MP1A         | My        | .035               | 4.5            |
| 27 | MP1A         | Mz        | 0                  | 4.5            |
| 28 | MP1A         | Y         | -10                | 2              |
| 29 | MP1A         | My        | -.007              | 2              |
| 30 | MP1A         | Mz        | 0                  | 2              |
| 31 | MP1A         | Y         | -10                | 6              |
| 32 | MP1A         | My        | -.007              | 6              |
| 33 | MP1A         | Mz        | 0                  | 6              |
| 34 | MP4A         | Y         | -10                | 2              |
| 35 | MP4A         | My        | -.007              | 2              |
| 36 | MP4A         | Mz        | 0                  | 2              |
| 37 | MP4A         | Y         | -10                | 6              |
| 38 | MP4A         | My        | -.007              | 6              |
| 39 | MP4A         | Mz        | 0                  | 6              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | Y         | -78.728            | 2              |
| 2  | MP2A         | My        | -.059              | 2              |
| 3  | MP2A         | Mz        | .052               | 2              |
| 4  | MP2A         | Y         | -78.728            | 6              |
| 5  | MP2A         | My        | -.059              | 6              |
| 6  | MP2A         | Mz        | .052               | 6              |
| 7  | MP2A         | Y         | -78.728            | 2              |
| 8  | MP2A         | My        | -.059              | 2              |
| 9  | MP2A         | Mz        | -.052              | 2              |
| 10 | MP2A         | Y         | -78.728            | 6              |
| 11 | MP2A         | My        | -.059              | 6              |
| 12 | MP2A         | Mz        | -.052              | 6              |
| 13 | MP3A         | Y         | -33.955            | 3              |





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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 14 | MP3A         | My        | -.025              | 3              |
| 15 | MP3A         | Mz        | 0                  | 3              |
| 16 | MP3A         | Y         | -33.955            | 5              |
| 17 | MP3A         | My        | -.025              | 5              |
| 18 | MP3A         | Mz        | 0                  | 5              |
| 19 | OVP          | Y         | -72.444            | 1.5            |
| 20 | OVP          | My        | 0                  | 1.5            |
| 21 | OVP          | Mz        | 0                  | 1.5            |
| 22 | MP2A         | Y         | -42.78             | 4.5            |
| 23 | MP2A         | My        | .021               | 4.5            |
| 24 | MP2A         | Mz        | 0                  | 4.5            |
| 25 | MP1A         | Y         | -38.459            | 4.5            |
| 26 | MP1A         | My        | .019               | 4.5            |
| 27 | MP1A         | Mz        | 0                  | 4.5            |
| 28 | MP1A         | Y         | -59.995            | 2              |
| 29 | MP1A         | My        | -.045              | 2              |
| 30 | MP1A         | Mz        | 0                  | 2              |
| 31 | MP1A         | Y         | -59.995            | 6              |
| 32 | MP1A         | My        | -.045              | 6              |
| 33 | MP1A         | Mz        | 0                  | 6              |
| 34 | MP4A         | Y         | -59.995            | 2              |
| 35 | MP4A         | My        | -.045              | 2              |
| 36 | MP4A         | Mz        | 0                  | 2              |
| 37 | MP4A         | Y         | -59.995            | 6              |
| 38 | MP4A         | My        | -.045              | 6              |
| 39 | MP4A         | Mz        | 0                  | 6              |

**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         | -148.788           | 2              |
| 3  | MP2A         | Mx        | -.099              | 2              |
| 4  | MP2A         | X         | 0                  | 6              |
| 5  | MP2A         | Z         | -148.788           | 6              |
| 6  | MP2A         | Mx        | -.099              | 6              |
| 7  | MP2A         | X         | 0                  | 2              |
| 8  | MP2A         | Z         | -148.788           | 2              |
| 9  | MP2A         | Mx        | .099               | 2              |
| 10 | MP2A         | X         | 0                  | 6              |
| 11 | MP2A         | Z         | -148.788           | 6              |
| 12 | MP2A         | Mx        | .099               | 6              |
| 13 | MP3A         | X         | 0                  | 3              |
| 14 | MP3A         | Z         | -70.852            | 3              |
| 15 | MP3A         | Mx        | 0                  | 3              |
| 16 | MP3A         | X         | 0                  | 5              |
| 17 | MP3A         | Z         | -70.852            | 5              |
| 18 | MP3A         | Mx        | 0                  | 5              |
| 19 | OVP          | X         | 0                  | 1.5            |
| 20 | OVP          | Z         | -114.267           | 1.5            |
| 21 | OVP          | Mx        | 0                  | 1.5            |
| 22 | MP2A         | X         | 0                  | 4.5            |
| 23 | MP2A         | Z         | -56.38             | 4.5            |
| 24 | MP2A         | Mx        | 0                  | 4.5            |
| 25 | MP1A         | X         | 0                  | 4.5            |
| 26 | MP1A         | Z         | -56.38             | 4.5            |
| 27 | MP1A         | Mx        | 0                  | 4.5            |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 28 | MP1A         | X         | 0                  | 2              |
| 29 | MP1A         | Z         | -92.71             | 2              |
| 30 | MP1A         | Mx        | 0                  | 2              |
| 31 | MP1A         | X         | 0                  | 6              |
| 32 | MP1A         | Z         | -92.71             | 6              |
| 33 | MP1A         | Mx        | 0                  | 6              |
| 34 | MP4A         | X         | 0                  | 2              |
| 35 | MP4A         | Z         | -92.71             | 2              |
| 36 | MP4A         | Mx        | 0                  | 2              |
| 37 | MP4A         | X         | 0                  | 6              |
| 38 | MP4A         | Z         | -92.71             | 6              |
| 39 | MP4A         | Mx        | 0                  | 6              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | X         | 69.623             | 2              |
| 2  | MP2A         | Z         | -120.59            | 2              |
| 3  | MP2A         | Mx        | -.133              | 2              |
| 4  | MP2A         | X         | 69.623             | 6              |
| 5  | MP2A         | Z         | -120.59            | 6              |
| 6  | MP2A         | Mx        | -.133              | 6              |
| 7  | MP2A         | X         | 69.623             | 2              |
| 8  | MP2A         | Z         | -120.59            | 2              |
| 9  | MP2A         | Mx        | .028               | 2              |
| 10 | MP2A         | X         | 69.623             | 6              |
| 11 | MP2A         | Z         | -120.59            | 6              |
| 12 | MP2A         | Mx        | .028               | 6              |
| 13 | MP3A         | X         | 30.037             | 3              |
| 14 | MP3A         | Z         | -52.025            | 3              |
| 15 | MP3A         | Mx        | -.023              | 3              |
| 16 | MP3A         | X         | 30.037             | 5              |
| 17 | MP3A         | Z         | -52.025            | 5              |
| 18 | MP3A         | Mx        | -.023              | 5              |
| 19 | OVP          | X         | 52.305             | 1.5            |
| 20 | OVP          | Z         | -90.594            | 1.5            |
| 21 | OVP          | Mx        | 0                  | 1.5            |
| 22 | MP2A         | X         | 25.853             | 4.5            |
| 23 | MP2A         | Z         | -44.779            | 4.5            |
| 24 | MP2A         | Mx        | .013               | 4.5            |
| 25 | MP1A         | X         | 24.958             | 4.5            |
| 26 | MP1A         | Z         | -43.229            | 4.5            |
| 27 | MP1A         | Mx        | .012               | 4.5            |
| 28 | MP1A         | X         | 44.921             | 2              |
| 29 | MP1A         | Z         | -77.805            | 2              |
| 30 | MP1A         | Mx        | -.034              | 2              |
| 31 | MP1A         | X         | 44.921             | 6              |
| 32 | MP1A         | Z         | -77.805            | 6              |
| 33 | MP1A         | Mx        | -.034              | 6              |
| 34 | MP4A         | X         | 44.921             | 2              |
| 35 | MP4A         | Z         | -77.805            | 2              |
| 36 | MP4A         | Mx        | -.034              | 2              |
| 37 | MP4A         | X         | 44.921             | 6              |
| 38 | MP4A         | Z         | -77.805            | 6              |
| 39 | MP4A         | Mx        | -.034              | 6              |





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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | X         | 104.062            | 2              |
| 2  | MP2A         | Z         | -60.08             | 2              |
| 3  | MP2A         | Mx        | -.118              | 2              |
| 4  | MP2A         | X         | 104.062            | 6              |
| 5  | MP2A         | Z         | -60.08             | 6              |
| 6  | MP2A         | Mx        | -.118              | 6              |
| 7  | MP2A         | X         | 104.062            | 2              |
| 8  | MP2A         | Z         | -60.08             | 2              |
| 9  | MP2A         | Mx        | -.038              | 2              |
| 10 | MP2A         | X         | 104.062            | 6              |
| 11 | MP2A         | Z         | -60.08             | 6              |
| 12 | MP2A         | Mx        | -.038              | 6              |
| 13 | MP3A         | X         | 33.356             | 3              |
| 14 | MP3A         | Z         | -19.258            | 3              |
| 15 | MP3A         | Mx        | -.025              | 3              |
| 16 | MP3A         | X         | 33.356             | 5              |
| 17 | MP3A         | Z         | -19.258            | 5              |
| 18 | MP3A         | Mx        | -.025              | 5              |
| 19 | OVP          | X         | 73.866             | 1.5            |
| 20 | OVP          | Z         | -42.647            | 1.5            |
| 21 | OVP          | Mx        | 0                  | 1.5            |
| 22 | MP2A         | X         | 36.685             | 4.5            |
| 23 | MP2A         | Z         | -21.18             | 4.5            |
| 24 | MP2A         | Mx        | .018               | 4.5            |
| 25 | MP1A         | X         | 32.034             | 4.5            |
| 26 | MP1A         | Z         | -18.495            | 4.5            |
| 27 | MP1A         | Mx        | .016               | 4.5            |
| 28 | MP1A         | X         | 72.836             | 2              |
| 29 | MP1A         | Z         | -42.052            | 2              |
| 30 | MP1A         | Mx        | -.055              | 2              |
| 31 | MP1A         | X         | 72.836             | 6              |
| 32 | MP1A         | Z         | -42.052            | 6              |
| 33 | MP1A         | Mx        | -.055              | 6              |
| 34 | MP4A         | X         | 72.836             | 2              |
| 35 | MP4A         | Z         | -42.052            | 2              |
| 36 | MP4A         | Mx        | -.055              | 2              |
| 37 | MP4A         | X         | 72.836             | 6              |
| 38 | MP4A         | Z         | -42.052            | 6              |
| 39 | MP4A         | Mx        | -.055              | 6              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | X         | 110.618            | 2              |
| 2  | MP2A         | Z         | 0                  | 2              |
| 3  | MP2A         | Mx        | -.083              | 2              |
| 4  | MP2A         | X         | 110.618            | 6              |
| 5  | MP2A         | Z         | 0                  | 6              |
| 6  | MP2A         | Mx        | -.083              | 6              |
| 7  | MP2A         | X         | 110.618            | 2              |
| 8  | MP2A         | Z         | 0                  | 2              |
| 9  | MP2A         | Mx        | -.083              | 2              |
| 10 | MP2A         | X         | 110.618            | 6              |
| 11 | MP2A         | Z         | 0                  | 6              |
| 12 | MP2A         | Mx        | -.083              | 6              |
| 13 | MP3A         | X         | 27.738             | 3              |
| 14 | MP3A         | Z         | 0                  | 3              |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 15 | MP3A         | Mx        | -.021              | 3              |
| 16 | MP3A         | X         | 27.738             | 5              |
| 17 | MP3A         | Z         | 0                  | 5              |
| 18 | MP3A         | Mx        | -.021              | 5              |
| 19 | OVP          | X         | 75.636             | 1.5            |
| 20 | OVP          | Z         | 0                  | 1.5            |
| 21 | OVP          | Mx        | 0                  | 1.5            |
| 22 | MP2A         | X         | 37.687             | 4.5            |
| 23 | MP2A         | Z         | 0                  | 4.5            |
| 24 | MP2A         | Mx        | .019               | 4.5            |
| 25 | MP1A         | X         | 30.526             | 4.5            |
| 26 | MP1A         | Z         | 0                  | 4.5            |
| 27 | MP1A         | Mx        | .015               | 4.5            |
| 28 | MP1A         | X         | 81.235             | 2              |
| 29 | MP1A         | Z         | 0                  | 2              |
| 30 | MP1A         | Mx        | -.061              | 2              |
| 31 | MP1A         | X         | 81.235             | 6              |
| 32 | MP1A         | Z         | 0                  | 6              |
| 33 | MP1A         | Mx        | -.061              | 6              |
| 34 | MP4A         | X         | 81.235             | 2              |
| 35 | MP4A         | Z         | 0                  | 2              |
| 36 | MP4A         | Mx        | -.061              | 2              |
| 37 | MP4A         | X         | 81.235             | 6              |
| 38 | MP4A         | Z         | 0                  | 6              |
| 39 | MP4A         | Mx        | -.061              | 6              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | X         | 104.062            | 2              |
| 2  | MP2A         | Z         | 60.08              | 2              |
| 3  | MP2A         | Mx        | -.038              | 2              |
| 4  | MP2A         | X         | 104.062            | 6              |
| 5  | MP2A         | Z         | 60.08              | 6              |
| 6  | MP2A         | Mx        | -.038              | 6              |
| 7  | MP2A         | X         | 104.062            | 2              |
| 8  | MP2A         | Z         | 60.08              | 2              |
| 9  | MP2A         | Mx        | -.118              | 2              |
| 10 | MP2A         | X         | 104.062            | 6              |
| 11 | MP2A         | Z         | 60.08              | 6              |
| 12 | MP2A         | Mx        | -.118              | 6              |
| 13 | MP3A         | X         | 33.356             | 3              |
| 14 | MP3A         | Z         | 19.258             | 3              |
| 15 | MP3A         | Mx        | -.025              | 3              |
| 16 | MP3A         | X         | 33.356             | 5              |
| 17 | MP3A         | Z         | 19.258             | 5              |
| 18 | MP3A         | Mx        | -.025              | 5              |
| 19 | OVP          | X         | 73.866             | 1.5            |
| 20 | OVP          | Z         | 42.647             | 1.5            |
| 21 | OVP          | Mx        | 0                  | 1.5            |
| 22 | MP2A         | X         | 36.685             | 4.5            |
| 23 | MP2A         | Z         | 21.18              | 4.5            |
| 24 | MP2A         | Mx        | .018               | 4.5            |
| 25 | MP1A         | X         | 32.034             | 4.5            |
| 26 | MP1A         | Z         | 18.495             | 4.5            |
| 27 | MP1A         | Mx        | .016               | 4.5            |
| 28 | MP1A         | X         | 72.836             | 2              |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 29 | MP1A         | Z         | 42.052             | 2              |
| 30 | MP1A         | Mx        | -.055              | 2              |
| 31 | MP1A         | X         | 72.836             | 6              |
| 32 | MP1A         | Z         | 42.052             | 6              |
| 33 | MP1A         | Mx        | -.055              | 6              |
| 34 | MP4A         | X         | 72.836             | 2              |
| 35 | MP4A         | Z         | 42.052             | 2              |
| 36 | MP4A         | Mx        | -.055              | 2              |
| 37 | MP4A         | X         | 72.836             | 6              |
| 38 | MP4A         | Z         | 42.052             | 6              |
| 39 | MP4A         | Mx        | -.055              | 6              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | X         | 69.623             | 2              |
| 2  | MP2A         | Z         | 120.59             | 2              |
| 3  | MP2A         | Mx        | .028               | 2              |
| 4  | MP2A         | X         | 69.623             | 6              |
| 5  | MP2A         | Z         | 120.59             | 6              |
| 6  | MP2A         | Mx        | .028               | 6              |
| 7  | MP2A         | X         | 69.623             | 2              |
| 8  | MP2A         | Z         | 120.59             | 2              |
| 9  | MP2A         | Mx        | -.133              | 2              |
| 10 | MP2A         | X         | 69.623             | 6              |
| 11 | MP2A         | Z         | 120.59             | 6              |
| 12 | MP2A         | Mx        | -.133              | 6              |
| 13 | MP3A         | X         | 30.037             | 3              |
| 14 | MP3A         | Z         | 52.025             | 3              |
| 15 | MP3A         | Mx        | -.023              | 3              |
| 16 | MP3A         | X         | 30.037             | 5              |
| 17 | MP3A         | Z         | 52.025             | 5              |
| 18 | MP3A         | Mx        | -.023              | 5              |
| 19 | OVP          | X         | 52.305             | 1.5            |
| 20 | OVP          | Z         | 90.594             | 1.5            |
| 21 | OVP          | Mx        | 0                  | 1.5            |
| 22 | MP2A         | X         | 25.853             | 4.5            |
| 23 | MP2A         | Z         | 44.779             | 4.5            |
| 24 | MP2A         | Mx        | .013               | 4.5            |
| 25 | MP1A         | X         | 24.958             | 4.5            |
| 26 | MP1A         | Z         | 43.229             | 4.5            |
| 27 | MP1A         | Mx        | .012               | 4.5            |
| 28 | MP1A         | X         | 44.921             | 2              |
| 29 | MP1A         | Z         | 77.805             | 2              |
| 30 | MP1A         | Mx        | -.034              | 2              |
| 31 | MP1A         | X         | 44.921             | 6              |
| 32 | MP1A         | Z         | 77.805             | 6              |
| 33 | MP1A         | Mx        | -.034              | 6              |
| 34 | MP4A         | X         | 44.921             | 2              |
| 35 | MP4A         | Z         | 77.805             | 2              |
| 36 | MP4A         | Mx        | -.034              | 2              |
| 37 | MP4A         | X         | 44.921             | 6              |
| 38 | MP4A         | Z         | 77.805             | 6              |
| 39 | MP4A         | Mx        | -.034              | 6              |

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

|  | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|--|--------------|-----------|--------------------|----------------|
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**Member Point Loads (BLC 9 : Antenna Wo (180 Deg)) (Continued)**

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | X         | 0                  | 2              |
| 2  | MP2A         | Z         | 148.788            | 2              |
| 3  | MP2A         | Mx        | .099               | 2              |
| 4  | MP2A         | X         | 0                  | 6              |
| 5  | MP2A         | Z         | 148.788            | 6              |
| 6  | MP2A         | Mx        | .099               | 6              |
| 7  | MP2A         | X         | 0                  | 2              |
| 8  | MP2A         | Z         | 148.788            | 2              |
| 9  | MP2A         | Mx        | -.099              | 2              |
| 10 | MP2A         | X         | 0                  | 6              |
| 11 | MP2A         | Z         | 148.788            | 6              |
| 12 | MP2A         | Mx        | -.099              | 6              |
| 13 | MP3A         | X         | 0                  | 3              |
| 14 | MP3A         | Z         | 70.852             | 3              |
| 15 | MP3A         | Mx        | 0                  | 3              |
| 16 | MP3A         | X         | 0                  | 5              |
| 17 | MP3A         | Z         | 70.852             | 5              |
| 18 | MP3A         | Mx        | 0                  | 5              |
| 19 | OVP          | X         | 0                  | 1.5            |
| 20 | OVP          | Z         | 114.267            | 1.5            |
| 21 | OVP          | Mx        | 0                  | 1.5            |
| 22 | MP2A         | X         | 0                  | 4.5            |
| 23 | MP2A         | Z         | 56.38              | 4.5            |
| 24 | MP2A         | Mx        | 0                  | 4.5            |
| 25 | MP1A         | X         | 0                  | 4.5            |
| 26 | MP1A         | Z         | 56.38              | 4.5            |
| 27 | MP1A         | Mx        | 0                  | 4.5            |
| 28 | MP1A         | X         | 0                  | 2              |
| 29 | MP1A         | Z         | 92.71              | 2              |
| 30 | MP1A         | Mx        | 0                  | 2              |
| 31 | MP1A         | X         | 0                  | 6              |
| 32 | MP1A         | Z         | 92.71              | 6              |
| 33 | MP1A         | Mx        | 0                  | 6              |
| 34 | MP4A         | X         | 0                  | 2              |
| 35 | MP4A         | Z         | 92.71              | 2              |
| 36 | MP4A         | Mx        | 0                  | 2              |
| 37 | MP4A         | X         | 0                  | 6              |
| 38 | MP4A         | Z         | 92.71              | 6              |
| 39 | MP4A         | Mx        | 0                  | 6              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | X         | -69.623            | 2              |
| 2  | MP2A         | Z         | 120.59             | 2              |
| 3  | MP2A         | Mx        | .133               | 2              |
| 4  | MP2A         | X         | -69.623            | 6              |
| 5  | MP2A         | Z         | 120.59             | 6              |
| 6  | MP2A         | Mx        | .133               | 6              |
| 7  | MP2A         | X         | -69.623            | 2              |
| 8  | MP2A         | Z         | 120.59             | 2              |
| 9  | MP2A         | Mx        | -.028              | 2              |
| 10 | MP2A         | X         | -69.623            | 6              |
| 11 | MP2A         | Z         | 120.59             | 6              |
| 12 | MP2A         | Mx        | -.028              | 6              |
| 13 | MP3A         | X         | -30.037            | 3              |
| 14 | MP3A         | Z         | 52.025             | 3              |





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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 29 | MP1A         | Z         | 42.052             | 2              |
| 30 | MP1A         | Mx        | .055               | 2              |
| 31 | MP1A         | X         | -72.836            | 6              |
| 32 | MP1A         | Z         | 42.052             | 6              |
| 33 | MP1A         | Mx        | .055               | 6              |
| 34 | MP4A         | X         | -72.836            | 2              |
| 35 | MP4A         | Z         | 42.052             | 2              |
| 36 | MP4A         | Mx        | .055               | 2              |
| 37 | MP4A         | X         | -72.836            | 6              |
| 38 | MP4A         | Z         | 42.052             | 6              |
| 39 | MP4A         | Mx        | .055               | 6              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | X         | -110.618           | 2              |
| 2  | MP2A         | Z         | 0                  | 2              |
| 3  | MP2A         | Mx        | .083               | 2              |
| 4  | MP2A         | X         | -110.618           | 6              |
| 5  | MP2A         | Z         | 0                  | 6              |
| 6  | MP2A         | Mx        | .083               | 6              |
| 7  | MP2A         | X         | -110.618           | 2              |
| 8  | MP2A         | Z         | 0                  | 2              |
| 9  | MP2A         | Mx        | .083               | 2              |
| 10 | MP2A         | X         | -110.618           | 6              |
| 11 | MP2A         | Z         | 0                  | 6              |
| 12 | MP2A         | Mx        | .083               | 6              |
| 13 | MP3A         | X         | -27.738            | 3              |
| 14 | MP3A         | Z         | 0                  | 3              |
| 15 | MP3A         | Mx        | .021               | 3              |
| 16 | MP3A         | X         | -27.738            | 5              |
| 17 | MP3A         | Z         | 0                  | 5              |
| 18 | MP3A         | Mx        | .021               | 5              |
| 19 | OVP          | X         | -75.636            | 1.5            |
| 20 | OVP          | Z         | 0                  | 1.5            |
| 21 | OVP          | Mx        | 0                  | 1.5            |
| 22 | MP2A         | X         | -37.687            | 4.5            |
| 23 | MP2A         | Z         | 0                  | 4.5            |
| 24 | MP2A         | Mx        | -.019              | 4.5            |
| 25 | MP1A         | X         | -30.526            | 4.5            |
| 26 | MP1A         | Z         | 0                  | 4.5            |
| 27 | MP1A         | Mx        | -.015              | 4.5            |
| 28 | MP1A         | X         | -81.235            | 2              |
| 29 | MP1A         | Z         | 0                  | 2              |
| 30 | MP1A         | Mx        | .061               | 2              |
| 31 | MP1A         | X         | -81.235            | 6              |
| 32 | MP1A         | Z         | 0                  | 6              |
| 33 | MP1A         | Mx        | .061               | 6              |
| 34 | MP4A         | X         | -81.235            | 2              |
| 35 | MP4A         | Z         | 0                  | 2              |
| 36 | MP4A         | Mx        | .061               | 2              |
| 37 | MP4A         | X         | -81.235            | 6              |
| 38 | MP4A         | Z         | 0                  | 6              |
| 39 | MP4A         | Mx        | .061               | 6              |

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

|  | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|--|--------------|-----------|--------------------|----------------|
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**Member Point Loads (BLC 13 : Antenna Wo (300 Deg)) (Continued)**

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | X         | -104.062           | 2              |
| 2  | MP2A         | Z         | -60.08             | 2              |
| 3  | MP2A         | Mx        | .038               | 2              |
| 4  | MP2A         | X         | -104.062           | 6              |
| 5  | MP2A         | Z         | -60.08             | 6              |
| 6  | MP2A         | Mx        | .038               | 6              |
| 7  | MP2A         | X         | -104.062           | 2              |
| 8  | MP2A         | Z         | -60.08             | 2              |
| 9  | MP2A         | Mx        | .118               | 2              |
| 10 | MP2A         | X         | -104.062           | 6              |
| 11 | MP2A         | Z         | -60.08             | 6              |
| 12 | MP2A         | Mx        | .118               | 6              |
| 13 | MP3A         | X         | -33.356            | 3              |
| 14 | MP3A         | Z         | -19.258            | 3              |
| 15 | MP3A         | Mx        | .025               | 3              |
| 16 | MP3A         | X         | -33.356            | 5              |
| 17 | MP3A         | Z         | -19.258            | 5              |
| 18 | MP3A         | Mx        | .025               | 5              |
| 19 | OVP          | X         | -73.866            | 1.5            |
| 20 | OVP          | Z         | -42.647            | 1.5            |
| 21 | OVP          | Mx        | 0                  | 1.5            |
| 22 | MP2A         | X         | -36.685            | 4.5            |
| 23 | MP2A         | Z         | -21.18             | 4.5            |
| 24 | MP2A         | Mx        | -.018              | 4.5            |
| 25 | MP1A         | X         | -32.034            | 4.5            |
| 26 | MP1A         | Z         | -18.495            | 4.5            |
| 27 | MP1A         | Mx        | -.016              | 4.5            |
| 28 | MP1A         | X         | -72.836            | 2              |
| 29 | MP1A         | Z         | -42.052            | 2              |
| 30 | MP1A         | Mx        | .055               | 2              |
| 31 | MP1A         | X         | -72.836            | 6              |
| 32 | MP1A         | Z         | -42.052            | 6              |
| 33 | MP1A         | Mx        | .055               | 6              |
| 34 | MP4A         | X         | -72.836            | 2              |
| 35 | MP4A         | Z         | -42.052            | 2              |
| 36 | MP4A         | Mx        | .055               | 2              |
| 37 | MP4A         | X         | -72.836            | 6              |
| 38 | MP4A         | Z         | -42.052            | 6              |
| 39 | MP4A         | Mx        | .055               | 6              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | X         | -69.623            | 2              |
| 2  | MP2A         | Z         | -120.59            | 2              |
| 3  | MP2A         | Mx        | -.028              | 2              |
| 4  | MP2A         | X         | -69.623            | 6              |
| 5  | MP2A         | Z         | -120.59            | 6              |
| 6  | MP2A         | Mx        | -.028              | 6              |
| 7  | MP2A         | X         | -69.623            | 2              |
| 8  | MP2A         | Z         | -120.59            | 2              |
| 9  | MP2A         | Mx        | .133               | 2              |
| 10 | MP2A         | X         | -69.623            | 6              |
| 11 | MP2A         | Z         | -120.59            | 6              |
| 12 | MP2A         | Mx        | .133               | 6              |
| 13 | MP3A         | X         | -30.037            | 3              |
| 14 | MP3A         | Z         | -52.025            | 3              |







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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 29 | MP1A         | Z         | -17.76             | 2              |
| 30 | MP1A         | Mx        | 0                  | 2              |
| 31 | MP1A         | X         | 0                  | 6              |
| 32 | MP1A         | Z         | -17.76             | 6              |
| 33 | MP1A         | Mx        | 0                  | 6              |
| 34 | MP4A         | X         | 0                  | 2              |
| 35 | MP4A         | Z         | -17.76             | 2              |
| 36 | MP4A         | Mx        | 0                  | 2              |
| 37 | MP4A         | X         | 0                  | 6              |
| 38 | MP4A         | Z         | -17.76             | 6              |
| 39 | MP4A         | Mx        | 0                  | 6              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | X         | 13.177             | 2              |
| 2  | MP2A         | Z         | -22.823            | 2              |
| 3  | MP2A         | Mx        | -.025              | 2              |
| 4  | MP2A         | X         | 13.177             | 6              |
| 5  | MP2A         | Z         | -22.823            | 6              |
| 6  | MP2A         | Mx        | -.025              | 6              |
| 7  | MP2A         | X         | 13.177             | 2              |
| 8  | MP2A         | Z         | -22.823            | 2              |
| 9  | MP2A         | Mx        | .005               | 2              |
| 10 | MP2A         | X         | 13.177             | 6              |
| 11 | MP2A         | Z         | -22.823            | 6              |
| 12 | MP2A         | Mx        | .005               | 6              |
| 13 | MP3A         | X         | 5.919              | 3              |
| 14 | MP3A         | Z         | -10.252            | 3              |
| 15 | MP3A         | Mx        | -.004              | 3              |
| 16 | MP3A         | X         | 5.919              | 5              |
| 17 | MP3A         | Z         | -10.252            | 5              |
| 18 | MP3A         | Mx        | -.004              | 5              |
| 19 | OVP          | X         | 10.324             | 1.5            |
| 20 | OVP          | Z         | -17.881            | 1.5            |
| 21 | OVP          | Mx        | 0                  | 1.5            |
| 22 | MP2A         | X         | 5.369              | 4.5            |
| 23 | MP2A         | Z         | -9.3               | 4.5            |
| 24 | MP2A         | Mx        | .003               | 4.5            |
| 25 | MP1A         | X         | 5.2                | 4.5            |
| 26 | MP1A         | Z         | -9.007             | 4.5            |
| 27 | MP1A         | Mx        | .003               | 4.5            |
| 28 | MP1A         | X         | 8.625              | 2              |
| 29 | MP1A         | Z         | -14.939            | 2              |
| 30 | MP1A         | Mx        | -.006              | 2              |
| 31 | MP1A         | X         | 8.625              | 6              |
| 32 | MP1A         | Z         | -14.939            | 6              |
| 33 | MP1A         | Mx        | -.006              | 6              |
| 34 | MP4A         | X         | 8.625              | 2              |
| 35 | MP4A         | Z         | -14.939            | 2              |
| 36 | MP4A         | Mx        | -.006              | 2              |
| 37 | MP4A         | X         | 8.625              | 6              |
| 38 | MP4A         | Z         | -14.939            | 6              |
| 39 | MP4A         | Mx        | -.006              | 6              |

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

|  | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
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**Member Point Loads (BLC 17 : Antenna Wi (60 Deg)) (Continued)**

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | X         | 19.857             | 2              |
| 2  | MP2A         | Z         | -11.464            | 2              |
| 3  | MP2A         | Mx        | -.023              | 2              |
| 4  | MP2A         | X         | 19.857             | 6              |
| 5  | MP2A         | Z         | -11.464            | 6              |
| 6  | MP2A         | Mx        | -.023              | 6              |
| 7  | MP2A         | X         | 19.857             | 2              |
| 8  | MP2A         | Z         | -11.464            | 2              |
| 9  | MP2A         | Mx        | -.007              | 2              |
| 10 | MP2A         | X         | 19.857             | 6              |
| 11 | MP2A         | Z         | -11.464            | 6              |
| 12 | MP2A         | Mx        | -.007              | 6              |
| 13 | MP3A         | X         | 6.806              | 3              |
| 14 | MP3A         | Z         | -3.929             | 3              |
| 15 | MP3A         | Mx        | -.005              | 3              |
| 16 | MP3A         | X         | 6.806              | 5              |
| 17 | MP3A         | Z         | -3.929             | 5              |
| 18 | MP3A         | Mx        | -.005              | 5              |
| 19 | OVP          | X         | 14.802             | 1.5            |
| 20 | OVP          | Z         | -8.546             | 1.5            |
| 21 | OVP          | Mx        | 0                  | 1.5            |
| 22 | MP2A         | X         | 7.761              | 4.5            |
| 23 | MP2A         | Z         | -4.481             | 4.5            |
| 24 | MP2A         | Mx        | .004               | 4.5            |
| 25 | MP1A         | X         | 6.884              | 4.5            |
| 26 | MP1A         | Z         | -3.975             | 4.5            |
| 27 | MP1A         | Mx        | .003               | 4.5            |
| 28 | MP1A         | X         | 14.055             | 2              |
| 29 | MP1A         | Z         | -8.115             | 2              |
| 30 | MP1A         | Mx        | -.011              | 2              |
| 31 | MP1A         | X         | 14.055             | 6              |
| 32 | MP1A         | Z         | -8.115             | 6              |
| 33 | MP1A         | Mx        | -.011              | 6              |
| 34 | MP4A         | X         | 14.055             | 2              |
| 35 | MP4A         | Z         | -8.115             | 2              |
| 36 | MP4A         | Mx        | -.011              | 2              |
| 37 | MP4A         | X         | 14.055             | 6              |
| 38 | MP4A         | Z         | -8.115             | 6              |
| 39 | MP4A         | Mx        | -.011              | 6              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | X         | 21.216             | 2              |
| 2  | MP2A         | Z         | 0                  | 2              |
| 3  | MP2A         | Mx        | -.016              | 2              |
| 4  | MP2A         | X         | 21.216             | 6              |
| 5  | MP2A         | Z         | 0                  | 6              |
| 6  | MP2A         | Mx        | -.016              | 6              |
| 7  | MP2A         | X         | 21.216             | 2              |
| 8  | MP2A         | Z         | 0                  | 2              |
| 9  | MP2A         | Mx        | -.016              | 2              |
| 10 | MP2A         | X         | 21.216             | 6              |
| 11 | MP2A         | Z         | 0                  | 6              |
| 12 | MP2A         | Mx        | -.016              | 6              |
| 13 | MP3A         | X         | 5.869              | 3              |
| 14 | MP3A         | Z         | 0                  | 3              |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 15 | MP3A         | Mx        | -.004              | 3              |
| 16 | MP3A         | X         | 5.869              | 5              |
| 17 | MP3A         | Z         | 0                  | 5              |
| 18 | MP3A         | Mx        | -.004              | 5              |
| 19 | OVP          | X         | 15.314             | 1.5            |
| 20 | OVP          | Z         | 0                  | 1.5            |
| 21 | OVP          | Mx        | 0                  | 1.5            |
| 22 | MP2A         | X         | 8.074              | 4.5            |
| 23 | MP2A         | Z         | 0                  | 4.5            |
| 24 | MP2A         | Mx        | .004               | 4.5            |
| 25 | MP1A         | X         | 6.724              | 4.5            |
| 26 | MP1A         | Z         | 0                  | 4.5            |
| 27 | MP1A         | Mx        | .003               | 4.5            |
| 28 | MP1A         | X         | 15.719             | 2              |
| 29 | MP1A         | Z         | 0                  | 2              |
| 30 | MP1A         | Mx        | -.012              | 2              |
| 31 | MP1A         | X         | 15.719             | 6              |
| 32 | MP1A         | Z         | 0                  | 6              |
| 33 | MP1A         | Mx        | -.012              | 6              |
| 34 | MP4A         | X         | 15.719             | 2              |
| 35 | MP4A         | Z         | 0                  | 2              |
| 36 | MP4A         | Mx        | -.012              | 2              |
| 37 | MP4A         | X         | 15.719             | 6              |
| 38 | MP4A         | Z         | 0                  | 6              |
| 39 | MP4A         | Mx        | -.012              | 6              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | X         | 19.857             | 2              |
| 2  | MP2A         | Z         | 11.464             | 2              |
| 3  | MP2A         | Mx        | -.007              | 2              |
| 4  | MP2A         | X         | 19.857             | 6              |
| 5  | MP2A         | Z         | 11.464             | 6              |
| 6  | MP2A         | Mx        | -.007              | 6              |
| 7  | MP2A         | X         | 19.857             | 2              |
| 8  | MP2A         | Z         | 11.464             | 2              |
| 9  | MP2A         | Mx        | -.023              | 2              |
| 10 | MP2A         | X         | 19.857             | 6              |
| 11 | MP2A         | Z         | 11.464             | 6              |
| 12 | MP2A         | Mx        | -.023              | 6              |
| 13 | MP3A         | X         | 6.806              | 3              |
| 14 | MP3A         | Z         | 3.929              | 3              |
| 15 | MP3A         | Mx        | -.005              | 3              |
| 16 | MP3A         | X         | 6.806              | 5              |
| 17 | MP3A         | Z         | 3.929              | 5              |
| 18 | MP3A         | Mx        | -.005              | 5              |
| 19 | OVP          | X         | 14.802             | 1.5            |
| 20 | OVP          | Z         | 8.546              | 1.5            |
| 21 | OVP          | Mx        | 0                  | 1.5            |
| 22 | MP2A         | X         | 7.761              | 4.5            |
| 23 | MP2A         | Z         | 4.481              | 4.5            |
| 24 | MP2A         | Mx        | .004               | 4.5            |
| 25 | MP1A         | X         | 6.884              | 4.5            |
| 26 | MP1A         | Z         | 3.975              | 4.5            |
| 27 | MP1A         | Mx        | .003               | 4.5            |
| 28 | MP1A         | X         | 14.055             | 2              |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 29 | MP1A         | Z         | 8.115              | 2              |
| 30 | MP1A         | Mx        | -.011              | 2              |
| 31 | MP1A         | X         | 14.055             | 6              |
| 32 | MP1A         | Z         | 8.115              | 6              |
| 33 | MP1A         | Mx        | -.011              | 6              |
| 34 | MP4A         | X         | 14.055             | 2              |
| 35 | MP4A         | Z         | 8.115              | 2              |
| 36 | MP4A         | Mx        | -.011              | 2              |
| 37 | MP4A         | X         | 14.055             | 6              |
| 38 | MP4A         | Z         | 8.115              | 6              |
| 39 | MP4A         | Mx        | -.011              | 6              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | X         | 13.177             | 2              |
| 2  | MP2A         | Z         | 22.823             | 2              |
| 3  | MP2A         | Mx        | .005               | 2              |
| 4  | MP2A         | X         | 13.177             | 6              |
| 5  | MP2A         | Z         | 22.823             | 6              |
| 6  | MP2A         | Mx        | .005               | 6              |
| 7  | MP2A         | X         | 13.177             | 2              |
| 8  | MP2A         | Z         | 22.823             | 2              |
| 9  | MP2A         | Mx        | -.025              | 2              |
| 10 | MP2A         | X         | 13.177             | 6              |
| 11 | MP2A         | Z         | 22.823             | 6              |
| 12 | MP2A         | Mx        | -.025              | 6              |
| 13 | MP3A         | X         | 5.919              | 3              |
| 14 | MP3A         | Z         | 10.252             | 3              |
| 15 | MP3A         | Mx        | -.004              | 3              |
| 16 | MP3A         | X         | 5.919              | 5              |
| 17 | MP3A         | Z         | 10.252             | 5              |
| 18 | MP3A         | Mx        | -.004              | 5              |
| 19 | OVP          | X         | 10.324             | 1.5            |
| 20 | OVP          | Z         | 17.881             | 1.5            |
| 21 | OVP          | Mx        | 0                  | 1.5            |
| 22 | MP2A         | X         | 5.369              | 4.5            |
| 23 | MP2A         | Z         | 9.3                | 4.5            |
| 24 | MP2A         | Mx        | .003               | 4.5            |
| 25 | MP1A         | X         | 5.2                | 4.5            |
| 26 | MP1A         | Z         | 9.007              | 4.5            |
| 27 | MP1A         | Mx        | .003               | 4.5            |
| 28 | MP1A         | X         | 8.625              | 2              |
| 29 | MP1A         | Z         | 14.939             | 2              |
| 30 | MP1A         | Mx        | -.006              | 2              |
| 31 | MP1A         | X         | 8.625              | 6              |
| 32 | MP1A         | Z         | 14.939             | 6              |
| 33 | MP1A         | Mx        | -.006              | 6              |
| 34 | MP4A         | X         | 8.625              | 2              |
| 35 | MP4A         | Z         | 14.939             | 2              |
| 36 | MP4A         | Mx        | -.006              | 2              |
| 37 | MP4A         | X         | 8.625              | 6              |
| 38 | MP4A         | Z         | 14.939             | 6              |
| 39 | MP4A         | Mx        | -.006              | 6              |

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

|  | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|--|--------------|-----------|--------------------|----------------|
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**Member Point Loads (BLC 21 : Antenna Wi (180 Deg)) (Continued)**

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | X         | 0                  | 2              |
| 2  | MP2A         | Z         | 28.066             | 2              |
| 3  | MP2A         | Mx        | .019               | 2              |
| 4  | MP2A         | X         | 0                  | 6              |
| 5  | MP2A         | Z         | 28.066             | 6              |
| 6  | MP2A         | Mx        | .019               | 6              |
| 7  | MP2A         | X         | 0                  | 2              |
| 8  | MP2A         | Z         | 28.066             | 2              |
| 9  | MP2A         | Mx        | -.019              | 2              |
| 10 | MP2A         | X         | 0                  | 6              |
| 11 | MP2A         | Z         | 28.066             | 6              |
| 12 | MP2A         | Mx        | -.019              | 6              |
| 13 | MP3A         | X         | 0                  | 3              |
| 14 | MP3A         | Z         | 13.827             | 3              |
| 15 | MP3A         | Mx        | 0                  | 3              |
| 16 | MP3A         | X         | 0                  | 5              |
| 17 | MP3A         | Z         | 13.827             | 5              |
| 18 | MP3A         | Mx        | 0                  | 5              |
| 19 | OVP          | X         | 0                  | 1.5            |
| 20 | OVP          | Z         | 22.425             | 1.5            |
| 21 | OVP          | Mx        | 0                  | 1.5            |
| 22 | MP2A         | X         | 0                  | 4.5            |
| 23 | MP2A         | Z         | 11.627             | 4.5            |
| 24 | MP2A         | Mx        | 0                  | 4.5            |
| 25 | MP1A         | X         | 0                  | 4.5            |
| 26 | MP1A         | Z         | 11.627             | 4.5            |
| 27 | MP1A         | Mx        | 0                  | 4.5            |
| 28 | MP1A         | X         | 0                  | 2              |
| 29 | MP1A         | Z         | 17.76              | 2              |
| 30 | MP1A         | Mx        | 0                  | 2              |
| 31 | MP1A         | X         | 0                  | 6              |
| 32 | MP1A         | Z         | 17.76              | 6              |
| 33 | MP1A         | Mx        | 0                  | 6              |
| 34 | MP4A         | X         | 0                  | 2              |
| 35 | MP4A         | Z         | 17.76              | 2              |
| 36 | MP4A         | Mx        | 0                  | 2              |
| 37 | MP4A         | X         | 0                  | 6              |
| 38 | MP4A         | Z         | 17.76              | 6              |
| 39 | MP4A         | Mx        | 0                  | 6              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | X         | -13.177            | 2              |
| 2  | MP2A         | Z         | 22.823             | 2              |
| 3  | MP2A         | Mx        | .025               | 2              |
| 4  | MP2A         | X         | -13.177            | 6              |
| 5  | MP2A         | Z         | 22.823             | 6              |
| 6  | MP2A         | Mx        | .025               | 6              |
| 7  | MP2A         | X         | -13.177            | 2              |
| 8  | MP2A         | Z         | 22.823             | 2              |
| 9  | MP2A         | Mx        | -.005              | 2              |
| 10 | MP2A         | X         | -13.177            | 6              |
| 11 | MP2A         | Z         | 22.823             | 6              |
| 12 | MP2A         | Mx        | -.005              | 6              |
| 13 | MP3A         | X         | -5.919             | 3              |
| 14 | MP3A         | Z         | 10.252             | 3              |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 15 | MP3A         | Mx        | .004               | 3              |
| 16 | MP3A         | X         | -5.919             | 5              |
| 17 | MP3A         | Z         | 10.252             | 5              |
| 18 | MP3A         | Mx        | .004               | 5              |
| 19 | OVP          | X         | -10.324            | 1.5            |
| 20 | OVP          | Z         | 17.881             | 1.5            |
| 21 | OVP          | Mx        | 0                  | 1.5            |
| 22 | MP2A         | X         | -5.369             | 4.5            |
| 23 | MP2A         | Z         | 9.3                | 4.5            |
| 24 | MP2A         | Mx        | -.003              | 4.5            |
| 25 | MP1A         | X         | -5.2               | 4.5            |
| 26 | MP1A         | Z         | 9.007              | 4.5            |
| 27 | MP1A         | Mx        | -.003              | 4.5            |
| 28 | MP1A         | X         | -8.625             | 2              |
| 29 | MP1A         | Z         | 14.939             | 2              |
| 30 | MP1A         | Mx        | .006               | 2              |
| 31 | MP1A         | X         | -8.625             | 6              |
| 32 | MP1A         | Z         | 14.939             | 6              |
| 33 | MP1A         | Mx        | .006               | 6              |
| 34 | MP4A         | X         | -8.625             | 2              |
| 35 | MP4A         | Z         | 14.939             | 2              |
| 36 | MP4A         | Mx        | .006               | 2              |
| 37 | MP4A         | X         | -8.625             | 6              |
| 38 | MP4A         | Z         | 14.939             | 6              |
| 39 | MP4A         | Mx        | .006               | 6              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | X         | -19.857            | 2              |
| 2  | MP2A         | Z         | 11.464             | 2              |
| 3  | MP2A         | Mx        | .023               | 2              |
| 4  | MP2A         | X         | -19.857            | 6              |
| 5  | MP2A         | Z         | 11.464             | 6              |
| 6  | MP2A         | Mx        | .023               | 6              |
| 7  | MP2A         | X         | -19.857            | 2              |
| 8  | MP2A         | Z         | 11.464             | 2              |
| 9  | MP2A         | Mx        | .007               | 2              |
| 10 | MP2A         | X         | -19.857            | 6              |
| 11 | MP2A         | Z         | 11.464             | 6              |
| 12 | MP2A         | Mx        | .007               | 6              |
| 13 | MP3A         | X         | -6.806             | 3              |
| 14 | MP3A         | Z         | 3.929              | 3              |
| 15 | MP3A         | Mx        | .005               | 3              |
| 16 | MP3A         | X         | -6.806             | 5              |
| 17 | MP3A         | Z         | 3.929              | 5              |
| 18 | MP3A         | Mx        | .005               | 5              |
| 19 | OVP          | X         | -14.802            | 1.5            |
| 20 | OVP          | Z         | 8.546              | 1.5            |
| 21 | OVP          | Mx        | 0                  | 1.5            |
| 22 | MP2A         | X         | -7.761             | 4.5            |
| 23 | MP2A         | Z         | 4.481              | 4.5            |
| 24 | MP2A         | Mx        | -.004              | 4.5            |
| 25 | MP1A         | X         | -6.884             | 4.5            |
| 26 | MP1A         | Z         | 3.975              | 4.5            |
| 27 | MP1A         | Mx        | -.003              | 4.5            |
| 28 | MP1A         | X         | -14.055            | 2              |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 29 | MP1A         | Z         | 8.115              | 2              |
| 30 | MP1A         | Mx        | .011               | 2              |
| 31 | MP1A         | X         | -14.055            | 6              |
| 32 | MP1A         | Z         | 8.115              | 6              |
| 33 | MP1A         | Mx        | .011               | 6              |
| 34 | MP4A         | X         | -14.055            | 2              |
| 35 | MP4A         | Z         | 8.115              | 2              |
| 36 | MP4A         | Mx        | .011               | 2              |
| 37 | MP4A         | X         | -14.055            | 6              |
| 38 | MP4A         | Z         | 8.115              | 6              |
| 39 | MP4A         | Mx        | .011               | 6              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | X         | -21.216            | 2              |
| 2  | MP2A         | Z         | 0                  | 2              |
| 3  | MP2A         | Mx        | .016               | 2              |
| 4  | MP2A         | X         | -21.216            | 6              |
| 5  | MP2A         | Z         | 0                  | 6              |
| 6  | MP2A         | Mx        | .016               | 6              |
| 7  | MP2A         | X         | -21.216            | 2              |
| 8  | MP2A         | Z         | 0                  | 2              |
| 9  | MP2A         | Mx        | .016               | 2              |
| 10 | MP2A         | X         | -21.216            | 6              |
| 11 | MP2A         | Z         | 0                  | 6              |
| 12 | MP2A         | Mx        | .016               | 6              |
| 13 | MP3A         | X         | -5.869             | 3              |
| 14 | MP3A         | Z         | 0                  | 3              |
| 15 | MP3A         | Mx        | .004               | 3              |
| 16 | MP3A         | X         | -5.869             | 5              |
| 17 | MP3A         | Z         | 0                  | 5              |
| 18 | MP3A         | Mx        | .004               | 5              |
| 19 | OVP          | X         | -15.314            | 1.5            |
| 20 | OVP          | Z         | 0                  | 1.5            |
| 21 | OVP          | Mx        | 0                  | 1.5            |
| 22 | MP2A         | X         | -8.074             | 4.5            |
| 23 | MP2A         | Z         | 0                  | 4.5            |
| 24 | MP2A         | Mx        | -.004              | 4.5            |
| 25 | MP1A         | X         | -6.724             | 4.5            |
| 26 | MP1A         | Z         | 0                  | 4.5            |
| 27 | MP1A         | Mx        | -.003              | 4.5            |
| 28 | MP1A         | X         | -15.719            | 2              |
| 29 | MP1A         | Z         | 0                  | 2              |
| 30 | MP1A         | Mx        | .012               | 2              |
| 31 | MP1A         | X         | -15.719            | 6              |
| 32 | MP1A         | Z         | 0                  | 6              |
| 33 | MP1A         | Mx        | .012               | 6              |
| 34 | MP4A         | X         | -15.719            | 2              |
| 35 | MP4A         | Z         | 0                  | 2              |
| 36 | MP4A         | Mx        | .012               | 2              |
| 37 | MP4A         | X         | -15.719            | 6              |
| 38 | MP4A         | Z         | 0                  | 6              |
| 39 | MP4A         | Mx        | .012               | 6              |

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

|  | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
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**Member Point Loads (BLC 25 : Antenna Wi (300 Deg)) (Continued)**

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | X         | -19.857            | 2              |
| 2  | MP2A         | Z         | -11.464            | 2              |
| 3  | MP2A         | Mx        | .007               | 2              |
| 4  | MP2A         | X         | -19.857            | 6              |
| 5  | MP2A         | Z         | -11.464            | 6              |
| 6  | MP2A         | Mx        | .007               | 6              |
| 7  | MP2A         | X         | -19.857            | 2              |
| 8  | MP2A         | Z         | -11.464            | 2              |
| 9  | MP2A         | Mx        | .023               | 2              |
| 10 | MP2A         | X         | -19.857            | 6              |
| 11 | MP2A         | Z         | -11.464            | 6              |
| 12 | MP2A         | Mx        | .023               | 6              |
| 13 | MP3A         | X         | -6.806             | 3              |
| 14 | MP3A         | Z         | -3.929             | 3              |
| 15 | MP3A         | Mx        | .005               | 3              |
| 16 | MP3A         | X         | -6.806             | 5              |
| 17 | MP3A         | Z         | -3.929             | 5              |
| 18 | MP3A         | Mx        | .005               | 5              |
| 19 | OVP          | X         | -14.802            | 1.5            |
| 20 | OVP          | Z         | -8.546             | 1.5            |
| 21 | OVP          | Mx        | 0                  | 1.5            |
| 22 | MP2A         | X         | -7.761             | 4.5            |
| 23 | MP2A         | Z         | -4.481             | 4.5            |
| 24 | MP2A         | Mx        | -.004              | 4.5            |
| 25 | MP1A         | X         | -6.884             | 4.5            |
| 26 | MP1A         | Z         | -3.975             | 4.5            |
| 27 | MP1A         | Mx        | -.003              | 4.5            |
| 28 | MP1A         | X         | -14.055            | 2              |
| 29 | MP1A         | Z         | -8.115             | 2              |
| 30 | MP1A         | Mx        | .011               | 2              |
| 31 | MP1A         | X         | -14.055            | 6              |
| 32 | MP1A         | Z         | -8.115             | 6              |
| 33 | MP1A         | Mx        | .011               | 6              |
| 34 | MP4A         | X         | -14.055            | 2              |
| 35 | MP4A         | Z         | -8.115             | 2              |
| 36 | MP4A         | Mx        | .011               | 2              |
| 37 | MP4A         | X         | -14.055            | 6              |
| 38 | MP4A         | Z         | -8.115             | 6              |
| 39 | MP4A         | Mx        | .011               | 6              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | X         | -13.177            | 2              |
| 2  | MP2A         | Z         | -22.823            | 2              |
| 3  | MP2A         | Mx        | -.005              | 2              |
| 4  | MP2A         | X         | -13.177            | 6              |
| 5  | MP2A         | Z         | -22.823            | 6              |
| 6  | MP2A         | Mx        | -.005              | 6              |
| 7  | MP2A         | X         | -13.177            | 2              |
| 8  | MP2A         | Z         | -22.823            | 2              |
| 9  | MP2A         | Mx        | .025               | 2              |
| 10 | MP2A         | X         | -13.177            | 6              |
| 11 | MP2A         | Z         | -22.823            | 6              |
| 12 | MP2A         | Mx        | .025               | 6              |
| 13 | MP3A         | X         | -5.919             | 3              |
| 14 | MP3A         | Z         | -10.252            | 3              |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 15 | MP3A         | Mx        | .004               | 3              |
| 16 | MP3A         | X         | -5.919             | 5              |
| 17 | MP3A         | Z         | -10.252            | 5              |
| 18 | MP3A         | Mx        | .004               | 5              |
| 19 | OVP          | X         | -10.324            | 1.5            |
| 20 | OVP          | Z         | -17.881            | 1.5            |
| 21 | OVP          | Mx        | 0                  | 1.5            |
| 22 | MP2A         | X         | -5.369             | 4.5            |
| 23 | MP2A         | Z         | -9.3               | 4.5            |
| 24 | MP2A         | Mx        | -.003              | 4.5            |
| 25 | MP1A         | X         | -5.2               | 4.5            |
| 26 | MP1A         | Z         | -9.007             | 4.5            |
| 27 | MP1A         | Mx        | -.003              | 4.5            |
| 28 | MP1A         | X         | -8.625             | 2              |
| 29 | MP1A         | Z         | -14.939            | 2              |
| 30 | MP1A         | Mx        | .006               | 2              |
| 31 | MP1A         | X         | -8.625             | 6              |
| 32 | MP1A         | Z         | -14.939            | 6              |
| 33 | MP1A         | Mx        | .006               | 6              |
| 34 | MP4A         | X         | -8.625             | 2              |
| 35 | MP4A         | Z         | -14.939            | 2              |
| 36 | MP4A         | Mx        | .006               | 2              |
| 37 | MP4A         | X         | -8.625             | 6              |
| 38 | MP4A         | Z         | -14.939            | 6              |
| 39 | MP4A         | Mx        | .006               | 6              |

**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         | -9.299             | 2              |
| 3  | MP2A         | Mx        | -.006              | 2              |
| 4  | MP2A         | X         | 0                  | 6              |
| 5  | MP2A         | Z         | -9.299             | 6              |
| 6  | MP2A         | Mx        | -.006              | 6              |
| 7  | MP2A         | X         | 0                  | 2              |
| 8  | MP2A         | Z         | -9.299             | 2              |
| 9  | MP2A         | Mx        | .006               | 2              |
| 10 | MP2A         | X         | 0                  | 6              |
| 11 | MP2A         | Z         | -9.299             | 6              |
| 12 | MP2A         | Mx        | .006               | 6              |
| 13 | MP3A         | X         | 0                  | 3              |
| 14 | MP3A         | Z         | -4.428             | 3              |
| 15 | MP3A         | Mx        | 0                  | 3              |
| 16 | MP3A         | X         | 0                  | 5              |
| 17 | MP3A         | Z         | -4.428             | 5              |
| 18 | MP3A         | Mx        | 0                  | 5              |
| 19 | OVP          | X         | 0                  | 1.5            |
| 20 | OVP          | Z         | -7.142             | 1.5            |
| 21 | OVP          | Mx        | 0                  | 1.5            |
| 22 | MP2A         | X         | 0                  | 4.5            |
| 23 | MP2A         | Z         | -3.524             | 4.5            |
| 24 | MP2A         | Mx        | 0                  | 4.5            |
| 25 | MP1A         | X         | 0                  | 4.5            |
| 26 | MP1A         | Z         | -3.524             | 4.5            |
| 27 | MP1A         | Mx        | 0                  | 4.5            |
| 28 | MP1A         | X         | 0                  | 2              |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 29 | MP1A         | Z         | -5.794             | 2              |
| 30 | MP1A         | Mx        | 0                  | 2              |
| 31 | MP1A         | X         | 0                  | 6              |
| 32 | MP1A         | Z         | -5.794             | 6              |
| 33 | MP1A         | Mx        | 0                  | 6              |
| 34 | MP4A         | X         | 0                  | 2              |
| 35 | MP4A         | Z         | -5.794             | 2              |
| 36 | MP4A         | Mx        | 0                  | 2              |
| 37 | MP4A         | X         | 0                  | 6              |
| 38 | MP4A         | Z         | -5.794             | 6              |
| 39 | MP4A         | Mx        | 0                  | 6              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | X         | 4.351              | 2              |
| 2  | MP2A         | Z         | -7.537             | 2              |
| 3  | MP2A         | Mx        | -.008              | 2              |
| 4  | MP2A         | X         | 4.351              | 6              |
| 5  | MP2A         | Z         | -7.537             | 6              |
| 6  | MP2A         | Mx        | -.008              | 6              |
| 7  | MP2A         | X         | 4.351              | 2              |
| 8  | MP2A         | Z         | -7.537             | 2              |
| 9  | MP2A         | Mx        | .002               | 2              |
| 10 | MP2A         | X         | 4.351              | 6              |
| 11 | MP2A         | Z         | -7.537             | 6              |
| 12 | MP2A         | Mx        | .002               | 6              |
| 13 | MP3A         | X         | 1.877              | 3              |
| 14 | MP3A         | Z         | -3.252             | 3              |
| 15 | MP3A         | Mx        | -.001              | 3              |
| 16 | MP3A         | X         | 1.877              | 5              |
| 17 | MP3A         | Z         | -3.252             | 5              |
| 18 | MP3A         | Mx        | -.001              | 5              |
| 19 | OVP          | X         | 3.269              | 1.5            |
| 20 | OVP          | Z         | -5.662             | 1.5            |
| 21 | OVP          | Mx        | 0                  | 1.5            |
| 22 | MP2A         | X         | 1.616              | 4.5            |
| 23 | MP2A         | Z         | -2.799             | 4.5            |
| 24 | MP2A         | Mx        | .000808            | 4.5            |
| 25 | MP1A         | X         | 1.56               | 4.5            |
| 26 | MP1A         | Z         | -2.702             | 4.5            |
| 27 | MP1A         | Mx        | .00078             | 4.5            |
| 28 | MP1A         | X         | 2.808              | 2              |
| 29 | MP1A         | Z         | -4.863             | 2              |
| 30 | MP1A         | Mx        | -.002              | 2              |
| 31 | MP1A         | X         | 2.808              | 6              |
| 32 | MP1A         | Z         | -4.863             | 6              |
| 33 | MP1A         | Mx        | -.002              | 6              |
| 34 | MP4A         | X         | 2.808              | 2              |
| 35 | MP4A         | Z         | -4.863             | 2              |
| 36 | MP4A         | Mx        | -.002              | 2              |
| 37 | MP4A         | X         | 2.808              | 6              |
| 38 | MP4A         | Z         | -4.863             | 6              |
| 39 | MP4A         | Mx        | -.002              | 6              |

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

|  | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|--|--------------|-----------|--------------------|----------------|
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**Member Point Loads (BLC 29 : Antenna Wm (60 Deg)) (Continued)**

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | X         | 6.504              | 2              |
| 2  | MP2A         | Z         | -3.755             | 2              |
| 3  | MP2A         | Mx        | -.007              | 2              |
| 4  | MP2A         | X         | 6.504              | 6              |
| 5  | MP2A         | Z         | -3.755             | 6              |
| 6  | MP2A         | Mx        | -.007              | 6              |
| 7  | MP2A         | X         | 6.504              | 2              |
| 8  | MP2A         | Z         | -3.755             | 2              |
| 9  | MP2A         | Mx        | -.002              | 2              |
| 10 | MP2A         | X         | 6.504              | 6              |
| 11 | MP2A         | Z         | -3.755             | 6              |
| 12 | MP2A         | Mx        | -.002              | 6              |
| 13 | MP3A         | X         | 2.085              | 3              |
| 14 | MP3A         | Z         | -1.204             | 3              |
| 15 | MP3A         | Mx        | -.002              | 3              |
| 16 | MP3A         | X         | 2.085              | 5              |
| 17 | MP3A         | Z         | -1.204             | 5              |
| 18 | MP3A         | Mx        | -.002              | 5              |
| 19 | OVP          | X         | 4.617              | 1.5            |
| 20 | OVP          | Z         | -2.665             | 1.5            |
| 21 | OVP          | Mx        | 0                  | 1.5            |
| 22 | MP2A         | X         | 2.293              | 4.5            |
| 23 | MP2A         | Z         | -1.324             | 4.5            |
| 24 | MP2A         | Mx        | .001               | 4.5            |
| 25 | MP1A         | X         | 2.002              | 4.5            |
| 26 | MP1A         | Z         | -1.156             | 4.5            |
| 27 | MP1A         | Mx        | .001               | 4.5            |
| 28 | MP1A         | X         | 4.552              | 2              |
| 29 | MP1A         | Z         | -2.628             | 2              |
| 30 | MP1A         | Mx        | -.003              | 2              |
| 31 | MP1A         | X         | 4.552              | 6              |
| 32 | MP1A         | Z         | -2.628             | 6              |
| 33 | MP1A         | Mx        | -.003              | 6              |
| 34 | MP4A         | X         | 4.552              | 2              |
| 35 | MP4A         | Z         | -2.628             | 2              |
| 36 | MP4A         | Mx        | -.003              | 2              |
| 37 | MP4A         | X         | 4.552              | 6              |
| 38 | MP4A         | Z         | -2.628             | 6              |
| 39 | MP4A         | Mx        | -.003              | 6              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | X         | 6.914              | 2              |
| 2  | MP2A         | Z         | 0                  | 2              |
| 3  | MP2A         | Mx        | -.005              | 2              |
| 4  | MP2A         | X         | 6.914              | 6              |
| 5  | MP2A         | Z         | 0                  | 6              |
| 6  | MP2A         | Mx        | -.005              | 6              |
| 7  | MP2A         | X         | 6.914              | 2              |
| 8  | MP2A         | Z         | 0                  | 2              |
| 9  | MP2A         | Mx        | -.005              | 2              |
| 10 | MP2A         | X         | 6.914              | 6              |
| 11 | MP2A         | Z         | 0                  | 6              |
| 12 | MP2A         | Mx        | -.005              | 6              |
| 13 | MP3A         | X         | 1.734              | 3              |
| 14 | MP3A         | Z         | 0                  | 3              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 15 | MP3A         | Mx        | -.001              | 3              |
| 16 | MP3A         | X         | 1.734              | 5              |
| 17 | MP3A         | Z         | 0                  | 5              |
| 18 | MP3A         | Mx        | -.001              | 5              |
| 19 | OVP          | X         | 4.727              | 1.5            |
| 20 | OVP          | Z         | 0                  | 1.5            |
| 21 | OVP          | Mx        | 0                  | 1.5            |
| 22 | MP2A         | X         | 2.355              | 4.5            |
| 23 | MP2A         | Z         | 0                  | 4.5            |
| 24 | MP2A         | Mx        | .001               | 4.5            |
| 25 | MP1A         | X         | 1.908              | 4.5            |
| 26 | MP1A         | Z         | 0                  | 4.5            |
| 27 | MP1A         | Mx        | .000954            | 4.5            |
| 28 | MP1A         | X         | 5.077              | 2              |
| 29 | MP1A         | Z         | 0                  | 2              |
| 30 | MP1A         | Mx        | -.004              | 2              |
| 31 | MP1A         | X         | 5.077              | 6              |
| 32 | MP1A         | Z         | 0                  | 6              |
| 33 | MP1A         | Mx        | -.004              | 6              |
| 34 | MP4A         | X         | 5.077              | 2              |
| 35 | MP4A         | Z         | 0                  | 2              |
| 36 | MP4A         | Mx        | -.004              | 2              |
| 37 | MP4A         | X         | 5.077              | 6              |
| 38 | MP4A         | Z         | 0                  | 6              |
| 39 | MP4A         | Mx        | -.004              | 6              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | X         | 6.504              | 2              |
| 2  | MP2A         | Z         | 3.755              | 2              |
| 3  | MP2A         | Mx        | -.002              | 2              |
| 4  | MP2A         | X         | 6.504              | 6              |
| 5  | MP2A         | Z         | 3.755              | 6              |
| 6  | MP2A         | Mx        | -.002              | 6              |
| 7  | MP2A         | X         | 6.504              | 2              |
| 8  | MP2A         | Z         | 3.755              | 2              |
| 9  | MP2A         | Mx        | -.007              | 2              |
| 10 | MP2A         | X         | 6.504              | 6              |
| 11 | MP2A         | Z         | 3.755              | 6              |
| 12 | MP2A         | Mx        | -.007              | 6              |
| 13 | MP3A         | X         | 2.085              | 3              |
| 14 | MP3A         | Z         | 1.204              | 3              |
| 15 | MP3A         | Mx        | -.002              | 3              |
| 16 | MP3A         | X         | 2.085              | 5              |
| 17 | MP3A         | Z         | 1.204              | 5              |
| 18 | MP3A         | Mx        | -.002              | 5              |
| 19 | OVP          | X         | 4.617              | 1.5            |
| 20 | OVP          | Z         | 2.665              | 1.5            |
| 21 | OVP          | Mx        | 0                  | 1.5            |
| 22 | MP2A         | X         | 2.293              | 4.5            |
| 23 | MP2A         | Z         | 1.324              | 4.5            |
| 24 | MP2A         | Mx        | .001               | 4.5            |
| 25 | MP1A         | X         | 2.002              | 4.5            |
| 26 | MP1A         | Z         | 1.156              | 4.5            |
| 27 | MP1A         | Mx        | .001               | 4.5            |
| 28 | MP1A         | X         | 4.552              | 2              |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 29 | MP1A         | Z         | 2.628              | 2              |
| 30 | MP1A         | Mx        | -.003              | 2              |
| 31 | MP1A         | X         | 4.552              | 6              |
| 32 | MP1A         | Z         | 2.628              | 6              |
| 33 | MP1A         | Mx        | -.003              | 6              |
| 34 | MP4A         | X         | 4.552              | 2              |
| 35 | MP4A         | Z         | 2.628              | 2              |
| 36 | MP4A         | Mx        | -.003              | 2              |
| 37 | MP4A         | X         | 4.552              | 6              |
| 38 | MP4A         | Z         | 2.628              | 6              |
| 39 | MP4A         | Mx        | -.003              | 6              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | X         | 4.351              | 2              |
| 2  | MP2A         | Z         | 7.537              | 2              |
| 3  | MP2A         | Mx        | .002               | 2              |
| 4  | MP2A         | X         | 4.351              | 6              |
| 5  | MP2A         | Z         | 7.537              | 6              |
| 6  | MP2A         | Mx        | .002               | 6              |
| 7  | MP2A         | X         | 4.351              | 2              |
| 8  | MP2A         | Z         | 7.537              | 2              |
| 9  | MP2A         | Mx        | -.008              | 2              |
| 10 | MP2A         | X         | 4.351              | 6              |
| 11 | MP2A         | Z         | 7.537              | 6              |
| 12 | MP2A         | Mx        | -.008              | 6              |
| 13 | MP3A         | X         | 1.877              | 3              |
| 14 | MP3A         | Z         | 3.252              | 3              |
| 15 | MP3A         | Mx        | -.001              | 3              |
| 16 | MP3A         | X         | 1.877              | 5              |
| 17 | MP3A         | Z         | 3.252              | 5              |
| 18 | MP3A         | Mx        | -.001              | 5              |
| 19 | OVP          | X         | 3.269              | 1.5            |
| 20 | OVP          | Z         | 5.662              | 1.5            |
| 21 | OVP          | Mx        | 0                  | 1.5            |
| 22 | MP2A         | X         | 1.616              | 4.5            |
| 23 | MP2A         | Z         | 2.799              | 4.5            |
| 24 | MP2A         | Mx        | .000808            | 4.5            |
| 25 | MP1A         | X         | 1.56               | 4.5            |
| 26 | MP1A         | Z         | 2.702              | 4.5            |
| 27 | MP1A         | Mx        | .00078             | 4.5            |
| 28 | MP1A         | X         | 2.808              | 2              |
| 29 | MP1A         | Z         | 4.863              | 2              |
| 30 | MP1A         | Mx        | -.002              | 2              |
| 31 | MP1A         | X         | 2.808              | 6              |
| 32 | MP1A         | Z         | 4.863              | 6              |
| 33 | MP1A         | Mx        | -.002              | 6              |
| 34 | MP4A         | X         | 2.808              | 2              |
| 35 | MP4A         | Z         | 4.863              | 2              |
| 36 | MP4A         | Mx        | -.002              | 2              |
| 37 | MP4A         | X         | 2.808              | 6              |
| 38 | MP4A         | Z         | 4.863              | 6              |
| 39 | MP4A         | Mx        | -.002              | 6              |

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

|  | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|--|--------------|-----------|--------------------|----------------|
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**Member Point Loads (BLC 33 : Antenna Wm (180 Deg)) (Continued)**

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | X         | 0                  | 2              |
| 2  | MP2A         | Z         | 9.299              | 2              |
| 3  | MP2A         | Mx        | .006               | 2              |
| 4  | MP2A         | X         | 0                  | 6              |
| 5  | MP2A         | Z         | 9.299              | 6              |
| 6  | MP2A         | Mx        | .006               | 6              |
| 7  | MP2A         | X         | 0                  | 2              |
| 8  | MP2A         | Z         | 9.299              | 2              |
| 9  | MP2A         | Mx        | -.006              | 2              |
| 10 | MP2A         | X         | 0                  | 6              |
| 11 | MP2A         | Z         | 9.299              | 6              |
| 12 | MP2A         | Mx        | -.006              | 6              |
| 13 | MP3A         | X         | 0                  | 3              |
| 14 | MP3A         | Z         | 4.428              | 3              |
| 15 | MP3A         | Mx        | 0                  | 3              |
| 16 | MP3A         | X         | 0                  | 5              |
| 17 | MP3A         | Z         | 4.428              | 5              |
| 18 | MP3A         | Mx        | 0                  | 5              |
| 19 | OVP          | X         | 0                  | 1.5            |
| 20 | OVP          | Z         | 7.142              | 1.5            |
| 21 | OVP          | Mx        | 0                  | 1.5            |
| 22 | MP2A         | X         | 0                  | 4.5            |
| 23 | MP2A         | Z         | 3.524              | 4.5            |
| 24 | MP2A         | Mx        | 0                  | 4.5            |
| 25 | MP1A         | X         | 0                  | 4.5            |
| 26 | MP1A         | Z         | 3.524              | 4.5            |
| 27 | MP1A         | Mx        | 0                  | 4.5            |
| 28 | MP1A         | X         | 0                  | 2              |
| 29 | MP1A         | Z         | 5.794              | 2              |
| 30 | MP1A         | Mx        | 0                  | 2              |
| 31 | MP1A         | X         | 0                  | 6              |
| 32 | MP1A         | Z         | 5.794              | 6              |
| 33 | MP1A         | Mx        | 0                  | 6              |
| 34 | MP4A         | X         | 0                  | 2              |
| 35 | MP4A         | Z         | 5.794              | 2              |
| 36 | MP4A         | Mx        | 0                  | 2              |
| 37 | MP4A         | X         | 0                  | 6              |
| 38 | MP4A         | Z         | 5.794              | 6              |
| 39 | MP4A         | Mx        | 0                  | 6              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | X         | -4.351             | 2              |
| 2  | MP2A         | Z         | 7.537              | 2              |
| 3  | MP2A         | Mx        | .008               | 2              |
| 4  | MP2A         | X         | -4.351             | 6              |
| 5  | MP2A         | Z         | 7.537              | 6              |
| 6  | MP2A         | Mx        | .008               | 6              |
| 7  | MP2A         | X         | -4.351             | 2              |
| 8  | MP2A         | Z         | 7.537              | 2              |
| 9  | MP2A         | Mx        | -.002              | 2              |
| 10 | MP2A         | X         | -4.351             | 6              |
| 11 | MP2A         | Z         | 7.537              | 6              |
| 12 | MP2A         | Mx        | -.002              | 6              |
| 13 | MP3A         | X         | -1.877             | 3              |
| 14 | MP3A         | Z         | 3.252              | 3              |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 15 | MP3A         | Mx        | .001               | 3              |
| 16 | MP3A         | X         | -1.877             | 5              |
| 17 | MP3A         | Z         | 3.252              | 5              |
| 18 | MP3A         | Mx        | .001               | 5              |
| 19 | OVP          | X         | -3.269             | 1.5            |
| 20 | OVP          | Z         | 5.662              | 1.5            |
| 21 | OVP          | Mx        | 0                  | 1.5            |
| 22 | MP2A         | X         | -1.616             | 4.5            |
| 23 | MP2A         | Z         | 2.799              | 4.5            |
| 24 | MP2A         | Mx        | -.000808           | 4.5            |
| 25 | MP1A         | X         | -1.56              | 4.5            |
| 26 | MP1A         | Z         | 2.702              | 4.5            |
| 27 | MP1A         | Mx        | -.00078            | 4.5            |
| 28 | MP1A         | X         | -2.808             | 2              |
| 29 | MP1A         | Z         | 4.863              | 2              |
| 30 | MP1A         | Mx        | .002               | 2              |
| 31 | MP1A         | X         | -2.808             | 6              |
| 32 | MP1A         | Z         | 4.863              | 6              |
| 33 | MP1A         | Mx        | .002               | 6              |
| 34 | MP4A         | X         | -2.808             | 2              |
| 35 | MP4A         | Z         | 4.863              | 2              |
| 36 | MP4A         | Mx        | .002               | 2              |
| 37 | MP4A         | X         | -2.808             | 6              |
| 38 | MP4A         | Z         | 4.863              | 6              |
| 39 | MP4A         | Mx        | .002               | 6              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | X         | -6.504             | 2              |
| 2  | MP2A         | Z         | 3.755              | 2              |
| 3  | MP2A         | Mx        | .007               | 2              |
| 4  | MP2A         | X         | -6.504             | 6              |
| 5  | MP2A         | Z         | 3.755              | 6              |
| 6  | MP2A         | Mx        | .007               | 6              |
| 7  | MP2A         | X         | -6.504             | 2              |
| 8  | MP2A         | Z         | 3.755              | 2              |
| 9  | MP2A         | Mx        | .002               | 2              |
| 10 | MP2A         | X         | -6.504             | 6              |
| 11 | MP2A         | Z         | 3.755              | 6              |
| 12 | MP2A         | Mx        | .002               | 6              |
| 13 | MP3A         | X         | -2.085             | 3              |
| 14 | MP3A         | Z         | 1.204              | 3              |
| 15 | MP3A         | Mx        | .002               | 3              |
| 16 | MP3A         | X         | -2.085             | 5              |
| 17 | MP3A         | Z         | 1.204              | 5              |
| 18 | MP3A         | Mx        | .002               | 5              |
| 19 | OVP          | X         | -4.617             | 1.5            |
| 20 | OVP          | Z         | 2.665              | 1.5            |
| 21 | OVP          | Mx        | 0                  | 1.5            |
| 22 | MP2A         | X         | -2.293             | 4.5            |
| 23 | MP2A         | Z         | 1.324              | 4.5            |
| 24 | MP2A         | Mx        | -.001              | 4.5            |
| 25 | MP1A         | X         | -2.002             | 4.5            |
| 26 | MP1A         | Z         | 1.156              | 4.5            |
| 27 | MP1A         | Mx        | -.001              | 4.5            |
| 28 | MP1A         | X         | -4.552             | 2              |





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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 29 | MP1A         | Z         | 2.628              | 2              |
| 30 | MP1A         | Mx        | .003               | 2              |
| 31 | MP1A         | X         | -4.552             | 6              |
| 32 | MP1A         | Z         | 2.628              | 6              |
| 33 | MP1A         | Mx        | .003               | 6              |
| 34 | MP4A         | X         | -4.552             | 2              |
| 35 | MP4A         | Z         | 2.628              | 2              |
| 36 | MP4A         | Mx        | .003               | 2              |
| 37 | MP4A         | X         | -4.552             | 6              |
| 38 | MP4A         | Z         | 2.628              | 6              |
| 39 | MP4A         | Mx        | .003               | 6              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | X         | -6.914             | 2              |
| 2  | MP2A         | Z         | 0                  | 2              |
| 3  | MP2A         | Mx        | .005               | 2              |
| 4  | MP2A         | X         | -6.914             | 6              |
| 5  | MP2A         | Z         | 0                  | 6              |
| 6  | MP2A         | Mx        | .005               | 6              |
| 7  | MP2A         | X         | -6.914             | 2              |
| 8  | MP2A         | Z         | 0                  | 2              |
| 9  | MP2A         | Mx        | .005               | 2              |
| 10 | MP2A         | X         | -6.914             | 6              |
| 11 | MP2A         | Z         | 0                  | 6              |
| 12 | MP2A         | Mx        | .005               | 6              |
| 13 | MP3A         | X         | -1.734             | 3              |
| 14 | MP3A         | Z         | 0                  | 3              |
| 15 | MP3A         | Mx        | .001               | 3              |
| 16 | MP3A         | X         | -1.734             | 5              |
| 17 | MP3A         | Z         | 0                  | 5              |
| 18 | MP3A         | Mx        | .001               | 5              |
| 19 | OVP          | X         | -4.727             | 1.5            |
| 20 | OVP          | Z         | 0                  | 1.5            |
| 21 | OVP          | Mx        | 0                  | 1.5            |
| 22 | MP2A         | X         | -2.355             | 4.5            |
| 23 | MP2A         | Z         | 0                  | 4.5            |
| 24 | MP2A         | Mx        | -.001              | 4.5            |
| 25 | MP1A         | X         | -1.908             | 4.5            |
| 26 | MP1A         | Z         | 0                  | 4.5            |
| 27 | MP1A         | Mx        | -.000954           | 4.5            |
| 28 | MP1A         | X         | -5.077             | 2              |
| 29 | MP1A         | Z         | 0                  | 2              |
| 30 | MP1A         | Mx        | .004               | 2              |
| 31 | MP1A         | X         | -5.077             | 6              |
| 32 | MP1A         | Z         | 0                  | 6              |
| 33 | MP1A         | Mx        | .004               | 6              |
| 34 | MP4A         | X         | -5.077             | 2              |
| 35 | MP4A         | Z         | 0                  | 2              |
| 36 | MP4A         | Mx        | .004               | 2              |
| 37 | MP4A         | X         | -5.077             | 6              |
| 38 | MP4A         | Z         | 0                  | 6              |
| 39 | MP4A         | Mx        | .004               | 6              |

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

|  | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|--|--------------|-----------|--------------------|----------------|
|--|--------------|-----------|--------------------|----------------|

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | X         | -6.504             | 2              |
| 2  | MP2A         | Z         | -3.755             | 2              |
| 3  | MP2A         | Mx        | .002               | 2              |
| 4  | MP2A         | X         | -6.504             | 6              |
| 5  | MP2A         | Z         | -3.755             | 6              |
| 6  | MP2A         | Mx        | .002               | 6              |
| 7  | MP2A         | X         | -6.504             | 2              |
| 8  | MP2A         | Z         | -3.755             | 2              |
| 9  | MP2A         | Mx        | .007               | 2              |
| 10 | MP2A         | X         | -6.504             | 6              |
| 11 | MP2A         | Z         | -3.755             | 6              |
| 12 | MP2A         | Mx        | .007               | 6              |
| 13 | MP3A         | X         | -2.085             | 3              |
| 14 | MP3A         | Z         | -1.204             | 3              |
| 15 | MP3A         | Mx        | .002               | 3              |
| 16 | MP3A         | X         | -2.085             | 5              |
| 17 | MP3A         | Z         | -1.204             | 5              |
| 18 | MP3A         | Mx        | .002               | 5              |
| 19 | OVP          | X         | -4.617             | 1.5            |
| 20 | OVP          | Z         | -2.665             | 1.5            |
| 21 | OVP          | Mx        | 0                  | 1.5            |
| 22 | MP2A         | X         | -2.293             | 4.5            |
| 23 | MP2A         | Z         | -1.324             | 4.5            |
| 24 | MP2A         | Mx        | -.001              | 4.5            |
| 25 | MP1A         | X         | -2.002             | 4.5            |
| 26 | MP1A         | Z         | -1.156             | 4.5            |
| 27 | MP1A         | Mx        | -.001              | 4.5            |
| 28 | MP1A         | X         | -4.552             | 2              |
| 29 | MP1A         | Z         | -2.628             | 2              |
| 30 | MP1A         | Mx        | .003               | 2              |
| 31 | MP1A         | X         | -4.552             | 6              |
| 32 | MP1A         | Z         | -2.628             | 6              |
| 33 | MP1A         | Mx        | .003               | 6              |
| 34 | MP4A         | X         | -4.552             | 2              |
| 35 | MP4A         | Z         | -2.628             | 2              |
| 36 | MP4A         | Mx        | .003               | 2              |
| 37 | MP4A         | X         | -4.552             | 6              |
| 38 | MP4A         | Z         | -2.628             | 6              |
| 39 | MP4A         | Mx        | .003               | 6              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP2A         | X         | -4.351             | 2              |
| 2  | MP2A         | Z         | -7.537             | 2              |
| 3  | MP2A         | Mx        | -.002              | 2              |
| 4  | MP2A         | X         | -4.351             | 6              |
| 5  | MP2A         | Z         | -7.537             | 6              |
| 6  | MP2A         | Mx        | -.002              | 6              |
| 7  | MP2A         | X         | -4.351             | 2              |
| 8  | MP2A         | Z         | -7.537             | 2              |
| 9  | MP2A         | Mx        | .008               | 2              |
| 10 | MP2A         | X         | -4.351             | 6              |
| 11 | MP2A         | Z         | -7.537             | 6              |
| 12 | MP2A         | Mx        | .008               | 6              |
| 13 | MP3A         | X         | -1.877             | 3              |
| 14 | MP3A         | Z         | -3.252             | 3              |





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

|    | Member Label | Direction | Start Magnitude[lb./ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|-------------------------------|--------------------|-----------------------|---------------------|
| 10 | M20          | Y         | -4.701                        | -4.701             | 0                     | %100                |
| 11 | M21          | Y         | -6.295                        | -6.295             | 0                     | %100                |
| 12 | M22          | Y         | -6.295                        | -6.295             | 0                     | %100                |
| 13 | M23          | Y         | -6.295                        | -6.295             | 0                     | %100                |
| 14 | M24          | Y         | -6.295                        | -6.295             | 0                     | %100                |
| 15 | M25          | Y         | -2.506                        | -2.506             | 0                     | %100                |
| 16 | M26          | Y         | -2.506                        | -2.506             | 0                     | %100                |
| 17 | M27          | Y         | -2.506                        | -2.506             | 0                     | %100                |
| 18 | M28          | Y         | -2.506                        | -2.506             | 0                     | %100                |
| 19 | MP3A         | Y         | -5.376                        | -5.376             | 0                     | %100                |
| 20 | MP2A         | Y         | -5.376                        | -5.376             | 0                     | %100                |
| 21 | MP1A         | Y         | -5.376                        | -5.376             | 0                     | %100                |
| 22 | M44          | Y         | -2.337                        | -2.337             | 0                     | %100                |
| 23 | M45          | Y         | -2.337                        | -2.337             | 0                     | %100                |
| 24 | M46          | Y         | -2.337                        | -2.337             | 0                     | %100                |
| 25 | M47          | Y         | -2.337                        | -2.337             | 0                     | %100                |
| 26 | M43          | Y         | -4.701                        | -4.701             | 0                     | %100                |
| 27 | MP4A         | Y         | -5.376                        | -5.376             | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb./ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|-------------------------------|--------------------|-----------------------|---------------------|
| 1  | M1           | X         | 0                             | 0                  | 0                     | %100                |
| 2  | M1           | Z         | -8.668                        | -8.668             | 0                     | %100                |
| 3  | M2           | X         | 0                             | 0                  | 0                     | %100                |
| 4  | M2           | Z         | -8.668                        | -8.668             | 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 | OVP          | X         | 0                             | 0                  | 0                     | %100                |
| 14 | OVP          | Z         | -3.422                        | -3.422             | 0                     | %100                |
| 15 | M18          | X         | 0                             | 0                  | 0                     | %100                |
| 16 | M18          | Z         | -3.422                        | -3.422             | 0                     | %100                |
| 17 | M19          | X         | 0                             | 0                  | 0                     | %100                |
| 18 | M19          | Z         | -3.422                        | -3.422             | 0                     | %100                |
| 19 | M20          | X         | 0                             | 0                  | 0                     | %100                |
| 20 | M20          | Z         | -3.422                        | -3.422             | 0                     | %100                |
| 21 | M21          | X         | 0                             | 0                  | 0                     | %100                |
| 22 | M21          | Z         | -1.884                        | -1.884             | 0                     | %100                |
| 23 | M22          | X         | 0                             | 0                  | 0                     | %100                |
| 24 | M22          | Z         | -1.884                        | -1.884             | 0                     | %100                |
| 25 | M23          | X         | 0                             | 0                  | 0                     | %100                |
| 26 | M23          | Z         | -1.884                        | -1.884             | 0                     | %100                |
| 27 | M24          | X         | 0                             | 0                  | 0                     | %100                |
| 28 | M24          | Z         | -1.884                        | -1.884             | 0                     | %100                |
| 29 | M25          | X         | 0                             | 0                  | 0                     | %100                |
| 30 | M25          | Z         | -1.952                        | -1.952             | 0                     | %100                |
| 31 | M26          | X         | 0                             | 0                  | 0                     | %100                |
| 32 | M26          | Z         | -1.952                        | -1.952             | 0                     | %100                |
| 33 | M27          | X         | 0                             | 0                  | 0                     | %100                |
| 34 | M27          | Z         | -1.952                        | -1.952             | 0                     | %100                |
| 35 | M28          | X         | 0                             | 0                  | 0                     | %100                |



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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 36 | M28          | Z         | -1.952                       | -1.952             | 0                     | %100                |
| 37 | MP3A         | X         | 0                            | 0                  | 0                     | %100                |
| 38 | MP3A         | Z         | -8.668                       | -8.668             | 0                     | %100                |
| 39 | MP2A         | X         | 0                            | 0                  | 0                     | %100                |
| 40 | MP2A         | Z         | -8.668                       | -8.668             | 0                     | %100                |
| 41 | MP1A         | X         | 0                            | 0                  | 0                     | %100                |
| 42 | MP1A         | Z         | -8.668                       | -8.668             | 0                     | %100                |
| 43 | M44          | X         | 0                            | 0                  | 0                     | %100                |
| 44 | M44          | Z         | -1.884                       | -1.884             | 0                     | %100                |
| 45 | M45          | X         | 0                            | 0                  | 0                     | %100                |
| 46 | M45          | Z         | -1.884                       | -1.884             | 0                     | %100                |
| 47 | M46          | X         | 0                            | 0                  | 0                     | %100                |
| 48 | M46          | Z         | -1.884                       | -1.884             | 0                     | %100                |
| 49 | M47          | X         | 0                            | 0                  | 0                     | %100                |
| 50 | M47          | Z         | -1.884                       | -1.884             | 0                     | %100                |
| 51 | M43          | X         | 0                            | 0                  | 0                     | %100                |
| 52 | M43          | Z         | -1.301                       | -1.301             | 0                     | %100                |
| 53 | MP4A         | X         | 0                            | 0                  | 0                     | %100                |
| 54 | MP4A         | Z         | -8.668                       | -8.668             | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 1  | M1           | X         | 3.251                        | 3.251              | 0                     | %100                |
| 2  | M1           | Z         | -5.63                        | -5.63              | 0                     | %100                |
| 3  | M2           | X         | 3.251                        | 3.251              | 0                     | %100                |
| 4  | M2           | Z         | -5.63                        | -5.63              | 0                     | %100                |
| 5  | M13          | X         | .236                         | .236               | 0                     | %100                |
| 6  | M13          | Z         | -.408                        | -.408              | 0                     | %100                |
| 7  | M14          | X         | .236                         | .236               | 0                     | %100                |
| 8  | M14          | Z         | -.408                        | -.408              | 0                     | %100                |
| 9  | M15          | X         | .236                         | .236               | 0                     | %100                |
| 10 | M15          | Z         | -.408                        | -.408              | 0                     | %100                |
| 11 | M16          | X         | .236                         | .236               | 0                     | %100                |
| 12 | M16          | Z         | -.408                        | -.408              | 0                     | %100                |
| 13 | OVP          | X         | .385                         | .385               | 0                     | %100                |
| 14 | OVP          | Z         | -.667                        | -.667              | 0                     | %100                |
| 15 | M18          | X         | .385                         | .385               | 0                     | %100                |
| 16 | M18          | Z         | -.667                        | -.667              | 0                     | %100                |
| 17 | M19          | X         | 2.706                        | 2.706              | 0                     | %100                |
| 18 | M19          | Z         | -4.687                       | -4.687             | 0                     | %100                |
| 19 | M20          | X         | 2.706                        | 2.706              | 0                     | %100                |
| 20 | M20          | Z         | -4.687                       | -4.687             | 0                     | %100                |
| 21 | M21          | X         | .707                         | .707               | 0                     | %100                |
| 22 | M21          | Z         | -1.224                       | -1.224             | 0                     | %100                |
| 23 | M22          | X         | .707                         | .707               | 0                     | %100                |
| 24 | M22          | Z         | -1.224                       | -1.224             | 0                     | %100                |
| 25 | M23          | X         | .707                         | .707               | 0                     | %100                |
| 26 | M23          | Z         | -1.224                       | -1.224             | 0                     | %100                |
| 27 | M24          | X         | .707                         | .707               | 0                     | %100                |
| 28 | M24          | Z         | -1.224                       | -1.224             | 0                     | %100                |
| 29 | M25          | X         | .78                          | .78                | 0                     | %100                |
| 30 | M25          | Z         | -1.352                       | -1.352             | 0                     | %100                |
| 31 | M26          | X         | .78                          | .78                | 0                     | %100                |
| 32 | M26          | Z         | -1.352                       | -1.352             | 0                     | %100                |
| 33 | M27          | X         | 1.123                        | 1.123              | 0                     | %100                |
| 34 | M27          | Z         | -1.944                       | -1.944             | 0                     | %100                |



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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 35 | M28          | X         | 1.123                        | 1.123              | 0                     | %100                |
| 36 | M28          | Z         | -1.944                       | -1.944             | 0                     | %100                |
| 37 | MP3A         | X         | 4.334                        | 4.334              | 0                     | %100                |
| 38 | MP3A         | Z         | -7.507                       | -7.507             | 0                     | %100                |
| 39 | MP2A         | X         | 4.334                        | 4.334              | 0                     | %100                |
| 40 | MP2A         | Z         | -7.507                       | -7.507             | 0                     | %100                |
| 41 | MP1A         | X         | 4.334                        | 4.334              | 0                     | %100                |
| 42 | MP1A         | Z         | -7.507                       | -7.507             | 0                     | %100                |
| 43 | M44          | X         | .942                         | .942               | 0                     | %100                |
| 44 | M44          | Z         | -1.632                       | -1.632             | 0                     | %100                |
| 45 | M45          | X         | .942                         | .942               | 0                     | %100                |
| 46 | M45          | Z         | -1.632                       | -1.632             | 0                     | %100                |
| 47 | M46          | X         | .942                         | .942               | 0                     | %100                |
| 48 | M46          | Z         | -1.632                       | -1.632             | 0                     | %100                |
| 49 | M47          | X         | .942                         | .942               | 0                     | %100                |
| 50 | M47          | Z         | -1.632                       | -1.632             | 0                     | %100                |
| 51 | M43          | X         | 2.416                        | 2.416              | 0                     | %100                |
| 52 | M43          | Z         | -4.184                       | -4.184             | 0                     | %100                |
| 53 | MP4A         | X         | 4.334                        | 4.334              | 0                     | %100                |
| 54 | MP4A         | Z         | -7.507                       | -7.507             | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 1  | M1           | X         | 1.877                        | 1.877              | 0                     | %100                |
| 2  | M1           | Z         | -1.084                       | -1.084             | 0                     | %100                |
| 3  | M2           | X         | 1.877                        | 1.877              | 0                     | %100                |
| 4  | M2           | Z         | -1.084                       | -1.084             | 0                     | %100                |
| 5  | M13          | X         | 1.224                        | 1.224              | 0                     | %100                |
| 6  | M13          | Z         | -.707                        | -.707              | 0                     | %100                |
| 7  | M14          | X         | 1.224                        | 1.224              | 0                     | %100                |
| 8  | M14          | Z         | -.707                        | -.707              | 0                     | %100                |
| 9  | M15          | X         | 1.224                        | 1.224              | 0                     | %100                |
| 10 | M15          | Z         | -.707                        | -.707              | 0                     | %100                |
| 11 | M16          | X         | 1.224                        | 1.224              | 0                     | %100                |
| 12 | M16          | Z         | -.707                        | -.707              | 0                     | %100                |
| 13 | OVP          | X         | .094                         | .094               | 0                     | %100                |
| 14 | OVP          | Z         | -.054                        | -.054              | 0                     | %100                |
| 15 | M18          | X         | .094                         | .094               | 0                     | %100                |
| 16 | M18          | Z         | -.054                        | -.054              | 0                     | %100                |
| 17 | M19          | X         | 4.114                        | 4.114              | 0                     | %100                |
| 18 | M19          | Z         | -2.375                       | -2.375             | 0                     | %100                |
| 19 | M20          | X         | 4.114                        | 4.114              | 0                     | %100                |
| 20 | M20          | Z         | -2.375                       | -2.375             | 0                     | %100                |
| 21 | M21          | X         | .408                         | .408               | 0                     | %100                |
| 22 | M21          | Z         | -.236                        | -.236              | 0                     | %100                |
| 23 | M22          | X         | .408                         | .408               | 0                     | %100                |
| 24 | M22          | Z         | -.236                        | -.236              | 0                     | %100                |
| 25 | M23          | X         | .408                         | .408               | 0                     | %100                |
| 26 | M23          | Z         | -.236                        | -.236              | 0                     | %100                |
| 27 | M24          | X         | .408                         | .408               | 0                     | %100                |
| 28 | M24          | Z         | -.236                        | -.236              | 0                     | %100                |
| 29 | M25          | X         | 1.267                        | 1.267              | 0                     | %100                |
| 30 | M25          | Z         | -.731                        | -.731              | 0                     | %100                |
| 31 | M26          | X         | 1.267                        | 1.267              | 0                     | %100                |
| 32 | M26          | Z         | -.731                        | -.731              | 0                     | %100                |
| 33 | M27          | X         | 1.86                         | 1.86               | 0                     | %100                |



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

|    | Member Label | Direction | Start Magnitude[lb./ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft,%] |
|----|--------------|-----------|-------------------------------|--------------------|-----------------------|--------------------|
| 34 | M27          | Z         | -1.074                        | -1.074             | 0                     | %100               |
| 35 | M28          | X         | 1.86                          | 1.86               | 0                     | %100               |
| 36 | M28          | Z         | -1.074                        | -1.074             | 0                     | %100               |
| 37 | MP3A         | X         | 7.507                         | 7.507              | 0                     | %100               |
| 38 | MP3A         | Z         | -4.334                        | -4.334             | 0                     | %100               |
| 39 | MP2A         | X         | 7.507                         | 7.507              | 0                     | %100               |
| 40 | MP2A         | Z         | -4.334                        | -4.334             | 0                     | %100               |
| 41 | MP1A         | X         | 7.507                         | 7.507              | 0                     | %100               |
| 42 | MP1A         | Z         | -4.334                        | -4.334             | 0                     | %100               |
| 43 | M44          | X         | 1.632                         | 1.632              | 0                     | %100               |
| 44 | M44          | Z         | -942                          | -942               | 0                     | %100               |
| 45 | M45          | X         | 1.632                         | 1.632              | 0                     | %100               |
| 46 | M45          | Z         | -942                          | -942               | 0                     | %100               |
| 47 | M46          | X         | 1.632                         | 1.632              | 0                     | %100               |
| 48 | M46          | Z         | -942                          | -942               | 0                     | %100               |
| 49 | M47          | X         | 1.632                         | 1.632              | 0                     | %100               |
| 50 | M47          | Z         | -942                          | -942               | 0                     | %100               |
| 51 | M43          | X         | 6.158                         | 6.158              | 0                     | %100               |
| 52 | M43          | Z         | -3.556                        | -3.556             | 0                     | %100               |
| 53 | MP4A         | X         | 7.507                         | 7.507              | 0                     | %100               |
| 54 | MP4A         | Z         | -4.334                        | -4.334             | 0                     | %100               |

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

|    | Member Label | Direction | Start Magnitude[lb./ft.F,ksf] | End Magnitude[...] | 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         | 1.884                         | 1.884              | 0                     | %100               |
| 6  | M13          | Z         | 0                             | 0                  | 0                     | %100               |
| 7  | M14          | X         | 1.884                         | 1.884              | 0                     | %100               |
| 8  | M14          | Z         | 0                             | 0                  | 0                     | %100               |
| 9  | M15          | X         | 1.884                         | 1.884              | 0                     | %100               |
| 10 | M15          | Z         | 0                             | 0                  | 0                     | %100               |
| 11 | M16          | X         | 1.884                         | 1.884              | 0                     | %100               |
| 12 | M16          | Z         | 0                             | 0                  | 0                     | %100               |
| 13 | OVP          | X         | 2.099                         | 2.099              | 0                     | %100               |
| 14 | OVP          | Z         | 0                             | 0                  | 0                     | %100               |
| 15 | M18          | X         | 2.099                         | 2.099              | 0                     | %100               |
| 16 | M18          | Z         | 0                             | 0                  | 0                     | %100               |
| 17 | M19          | X         | 2.099                         | 2.099              | 0                     | %100               |
| 18 | M19          | Z         | 0                             | 0                  | 0                     | %100               |
| 19 | M20          | X         | 2.099                         | 2.099              | 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         | 1.756                         | 1.756              | 0                     | %100               |
| 30 | M25          | Z         | 0                             | 0                  | 0                     | %100               |
| 31 | M26          | X         | 1.756                         | 1.756              | 0                     | %100               |
| 32 | M26          | Z         | 0                             | 0                  | 0                     | %100               |





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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 33 | M27          | X         | 1.756                        | 1.756              | 0                     | %100                |
| 34 | M27          | Z         | 0                            | 0                  | 0                     | %100                |
| 35 | M28          | X         | 1.756                        | 1.756              | 0                     | %100                |
| 36 | M28          | Z         | 0                            | 0                  | 0                     | %100                |
| 37 | MP3A         | X         | 8.668                        | 8.668              | 0                     | %100                |
| 38 | MP3A         | Z         | 0                            | 0                  | 0                     | %100                |
| 39 | MP2A         | X         | 8.668                        | 8.668              | 0                     | %100                |
| 40 | MP2A         | Z         | 0                            | 0                  | 0                     | %100                |
| 41 | MP1A         | X         | 8.668                        | 8.668              | 0                     | %100                |
| 42 | MP1A         | Z         | 0                            | 0                  | 0                     | %100                |
| 43 | M44          | X         | 1.884                        | 1.884              | 0                     | %100                |
| 44 | M44          | Z         | 0                            | 0                  | 0                     | %100                |
| 45 | M45          | X         | 1.884                        | 1.884              | 0                     | %100                |
| 46 | M45          | Z         | 0                            | 0                  | 0                     | %100                |
| 47 | M46          | X         | 1.884                        | 1.884              | 0                     | %100                |
| 48 | M46          | Z         | 0                            | 0                  | 0                     | %100                |
| 49 | M47          | X         | 1.884                        | 1.884              | 0                     | %100                |
| 50 | M47          | Z         | 0                            | 0                  | 0                     | %100                |
| 51 | M43          | X         | 5.86                         | 5.86               | 0                     | %100                |
| 52 | M43          | Z         | 0                            | 0                  | 0                     | %100                |
| 53 | MP4A         | X         | 8.668                        | 8.668              | 0                     | %100                |
| 54 | MP4A         | Z         | 0                            | 0                  | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 1  | M1           | X         | 1.877                        | 1.877              | 0                     | %100                |
| 2  | M1           | Z         | 1.084                        | 1.084              | 0                     | %100                |
| 3  | M2           | X         | 1.877                        | 1.877              | 0                     | %100                |
| 4  | M2           | Z         | 1.084                        | 1.084              | 0                     | %100                |
| 5  | M13          | X         | 1.224                        | 1.224              | 0                     | %100                |
| 6  | M13          | Z         | .707                         | .707               | 0                     | %100                |
| 7  | M14          | X         | 1.224                        | 1.224              | 0                     | %100                |
| 8  | M14          | Z         | .707                         | .707               | 0                     | %100                |
| 9  | M15          | X         | 1.224                        | 1.224              | 0                     | %100                |
| 10 | M15          | Z         | .707                         | .707               | 0                     | %100                |
| 11 | M16          | X         | 1.224                        | 1.224              | 0                     | %100                |
| 12 | M16          | Z         | .707                         | .707               | 0                     | %100                |
| 13 | OVP          | X         | 4.114                        | 4.114              | 0                     | %100                |
| 14 | OVP          | Z         | 2.375                        | 2.375              | 0                     | %100                |
| 15 | M18          | X         | 4.114                        | 4.114              | 0                     | %100                |
| 16 | M18          | Z         | 2.375                        | 2.375              | 0                     | %100                |
| 17 | M19          | X         | .094                         | .094               | 0                     | %100                |
| 18 | M19          | Z         | .054                         | .054               | 0                     | %100                |
| 19 | M20          | X         | .094                         | .094               | 0                     | %100                |
| 20 | M20          | Z         | .054                         | .054               | 0                     | %100                |
| 21 | M21          | X         | .408                         | .408               | 0                     | %100                |
| 22 | M21          | Z         | .236                         | .236               | 0                     | %100                |
| 23 | M22          | X         | .408                         | .408               | 0                     | %100                |
| 24 | M22          | Z         | .236                         | .236               | 0                     | %100                |
| 25 | M23          | X         | .408                         | .408               | 0                     | %100                |
| 26 | M23          | Z         | .236                         | .236               | 0                     | %100                |
| 27 | M24          | X         | .408                         | .408               | 0                     | %100                |
| 28 | M24          | Z         | .236                         | .236               | 0                     | %100                |
| 29 | M25          | X         | 1.86                         | 1.86               | 0                     | %100                |
| 30 | M25          | Z         | 1.074                        | 1.074              | 0                     | %100                |
| 31 | M26          | X         | 1.86                         | 1.86               | 0                     | %100                |



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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft,%] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|--------------------|
| 32 | M26          | Z         | 1.074                        | 1.074              | 0                     | %100               |
| 33 | M27          | X         | 1.267                        | 1.267              | 0                     | %100               |
| 34 | M27          | Z         | .731                         | .731               | 0                     | %100               |
| 35 | M28          | X         | 1.267                        | 1.267              | 0                     | %100               |
| 36 | M28          | Z         | .731                         | .731               | 0                     | %100               |
| 37 | MP3A         | X         | 7.507                        | 7.507              | 0                     | %100               |
| 38 | MP3A         | Z         | 4.334                        | 4.334              | 0                     | %100               |
| 39 | MP2A         | X         | 7.507                        | 7.507              | 0                     | %100               |
| 40 | MP2A         | Z         | 4.334                        | 4.334              | 0                     | %100               |
| 41 | MP1A         | X         | 7.507                        | 7.507              | 0                     | %100               |
| 42 | MP1A         | Z         | 4.334                        | 4.334              | 0                     | %100               |
| 43 | M44          | X         | 1.632                        | 1.632              | 0                     | %100               |
| 44 | M44          | Z         | .942                         | .942               | 0                     | %100               |
| 45 | M45          | X         | 1.632                        | 1.632              | 0                     | %100               |
| 46 | M45          | Z         | .942                         | .942               | 0                     | %100               |
| 47 | M46          | X         | 1.632                        | 1.632              | 0                     | %100               |
| 48 | M46          | Z         | .942                         | .942               | 0                     | %100               |
| 49 | M47          | X         | 1.632                        | 1.632              | 0                     | %100               |
| 50 | M47          | Z         | .942                         | .942               | 0                     | %100               |
| 51 | M43          | X         | 2.017                        | 2.017              | 0                     | %100               |
| 52 | M43          | Z         | 1.164                        | 1.164              | 0                     | %100               |
| 53 | MP4A         | X         | 7.507                        | 7.507              | 0                     | %100               |
| 54 | MP4A         | Z         | 4.334                        | 4.334              | 0                     | %100               |

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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft,%] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|--------------------|
| 1  | M1           | X         | 3.251                        | 3.251              | 0                     | %100               |
| 2  | M1           | Z         | 5.63                         | 5.63               | 0                     | %100               |
| 3  | M2           | X         | 3.251                        | 3.251              | 0                     | %100               |
| 4  | M2           | Z         | 5.63                         | 5.63               | 0                     | %100               |
| 5  | M13          | X         | .236                         | .236               | 0                     | %100               |
| 6  | M13          | Z         | .408                         | .408               | 0                     | %100               |
| 7  | M14          | X         | .236                         | .236               | 0                     | %100               |
| 8  | M14          | Z         | .408                         | .408               | 0                     | %100               |
| 9  | M15          | X         | .236                         | .236               | 0                     | %100               |
| 10 | M15          | Z         | .408                         | .408               | 0                     | %100               |
| 11 | M16          | X         | .236                         | .236               | 0                     | %100               |
| 12 | M16          | Z         | .408                         | .408               | 0                     | %100               |
| 13 | OVP          | X         | 2.706                        | 2.706              | 0                     | %100               |
| 14 | OVP          | Z         | 4.687                        | 4.687              | 0                     | %100               |
| 15 | M18          | X         | 2.706                        | 2.706              | 0                     | %100               |
| 16 | M18          | Z         | 4.687                        | 4.687              | 0                     | %100               |
| 17 | M19          | X         | .385                         | .385               | 0                     | %100               |
| 18 | M19          | Z         | .667                         | .667               | 0                     | %100               |
| 19 | M20          | X         | .385                         | .385               | 0                     | %100               |
| 20 | M20          | Z         | .667                         | .667               | 0                     | %100               |
| 21 | M21          | X         | .707                         | .707               | 0                     | %100               |
| 22 | M21          | Z         | 1.224                        | 1.224              | 0                     | %100               |
| 23 | M22          | X         | .707                         | .707               | 0                     | %100               |
| 24 | M22          | Z         | 1.224                        | 1.224              | 0                     | %100               |
| 25 | M23          | X         | .707                         | .707               | 0                     | %100               |
| 26 | M23          | Z         | 1.224                        | 1.224              | 0                     | %100               |
| 27 | M24          | X         | .707                         | .707               | 0                     | %100               |
| 28 | M24          | Z         | 1.224                        | 1.224              | 0                     | %100               |
| 29 | M25          | X         | 1.123                        | 1.123              | 0                     | %100               |
| 30 | M25          | Z         | 1.944                        | 1.944              | 0                     | %100               |



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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 31 | M26          | X         | 1.123                        | 1.123              | 0                     | %100                |
| 32 | M26          | Z         | 1.944                        | 1.944              | 0                     | %100                |
| 33 | M27          | X         | .78                          | .78                | 0                     | %100                |
| 34 | M27          | Z         | 1.352                        | 1.352              | 0                     | %100                |
| 35 | M28          | X         | .78                          | .78                | 0                     | %100                |
| 36 | M28          | Z         | 1.352                        | 1.352              | 0                     | %100                |
| 37 | MP3A         | X         | 4.334                        | 4.334              | 0                     | %100                |
| 38 | MP3A         | Z         | 7.507                        | 7.507              | 0                     | %100                |
| 39 | MP2A         | X         | 4.334                        | 4.334              | 0                     | %100                |
| 40 | MP2A         | Z         | 7.507                        | 7.507              | 0                     | %100                |
| 41 | MP1A         | X         | 4.334                        | 4.334              | 0                     | %100                |
| 42 | MP1A         | Z         | 7.507                        | 7.507              | 0                     | %100                |
| 43 | M44          | X         | .942                         | .942               | 0                     | %100                |
| 44 | M44          | Z         | 1.632                        | 1.632              | 0                     | %100                |
| 45 | M45          | X         | .942                         | .942               | 0                     | %100                |
| 46 | M45          | Z         | 1.632                        | 1.632              | 0                     | %100                |
| 47 | M46          | X         | .942                         | .942               | 0                     | %100                |
| 48 | M46          | Z         | 1.632                        | 1.632              | 0                     | %100                |
| 49 | M47          | X         | .942                         | .942               | 0                     | %100                |
| 50 | M47          | Z         | 1.632                        | 1.632              | 0                     | %100                |
| 51 | M43          | X         | .025                         | .025               | 0                     | %100                |
| 52 | M43          | Z         | .043                         | .043               | 0                     | %100                |
| 53 | MP4A         | X         | 4.334                        | 4.334              | 0                     | %100                |
| 54 | MP4A         | Z         | 7.507                        | 7.507              | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 1  | M1           | X         | 0                            | 0                  | 0                     | %100                |
| 2  | M1           | Z         | 8.668                        | 8.668              | 0                     | %100                |
| 3  | M2           | X         | 0                            | 0                  | 0                     | %100                |
| 4  | M2           | Z         | 8.668                        | 8.668              | 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 | OVP          | X         | 0                            | 0                  | 0                     | %100                |
| 14 | OVP          | Z         | 3.422                        | 3.422              | 0                     | %100                |
| 15 | M18          | X         | 0                            | 0                  | 0                     | %100                |
| 16 | M18          | Z         | 3.422                        | 3.422              | 0                     | %100                |
| 17 | M19          | X         | 0                            | 0                  | 0                     | %100                |
| 18 | M19          | Z         | 3.422                        | 3.422              | 0                     | %100                |
| 19 | M20          | X         | 0                            | 0                  | 0                     | %100                |
| 20 | M20          | Z         | 3.422                        | 3.422              | 0                     | %100                |
| 21 | M21          | X         | 0                            | 0                  | 0                     | %100                |
| 22 | M21          | Z         | 1.884                        | 1.884              | 0                     | %100                |
| 23 | M22          | X         | 0                            | 0                  | 0                     | %100                |
| 24 | M22          | Z         | 1.884                        | 1.884              | 0                     | %100                |
| 25 | M23          | X         | 0                            | 0                  | 0                     | %100                |
| 26 | M23          | Z         | 1.884                        | 1.884              | 0                     | %100                |
| 27 | M24          | X         | 0                            | 0                  | 0                     | %100                |
| 28 | M24          | Z         | 1.884                        | 1.884              | 0                     | %100                |
| 29 | M25          | X         | 0                            | 0                  | 0                     | %100                |

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

| Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 30           | M25       | Z                            | 1.952              | 1.952                 | 0 %100              |
| 31           | M26       | X                            | 0                  | 0                     | 0 %100              |
| 32           | M26       | Z                            | 1.952              | 1.952                 | 0 %100              |
| 33           | M27       | X                            | 0                  | 0                     | 0 %100              |
| 34           | M27       | Z                            | 1.952              | 1.952                 | 0 %100              |
| 35           | M28       | X                            | 0                  | 0                     | 0 %100              |
| 36           | M28       | Z                            | 1.952              | 1.952                 | 0 %100              |
| 37           | MP3A      | X                            | 0                  | 0                     | 0 %100              |
| 38           | MP3A      | Z                            | 8.668              | 8.668                 | 0 %100              |
| 39           | MP2A      | X                            | 0                  | 0                     | 0 %100              |
| 40           | MP2A      | Z                            | 8.668              | 8.668                 | 0 %100              |
| 41           | MP1A      | X                            | 0                  | 0                     | 0 %100              |
| 42           | MP1A      | Z                            | 8.668              | 8.668                 | 0 %100              |
| 43           | M44       | X                            | 0                  | 0                     | 0 %100              |
| 44           | M44       | Z                            | 1.884              | 1.884                 | 0 %100              |
| 45           | M45       | X                            | 0                  | 0                     | 0 %100              |
| 46           | M45       | Z                            | 1.884              | 1.884                 | 0 %100              |
| 47           | M46       | X                            | 0                  | 0                     | 0 %100              |
| 48           | M46       | Z                            | 1.884              | 1.884                 | 0 %100              |
| 49           | M47       | X                            | 0                  | 0                     | 0 %100              |
| 50           | M47       | Z                            | 1.884              | 1.884                 | 0 %100              |
| 51           | M43       | X                            | 0                  | 0                     | 0 %100              |
| 52           | M43       | Z                            | 1.301              | 1.301                 | 0 %100              |
| 53           | MP4A      | X                            | 0                  | 0                     | 0 %100              |
| 54           | MP4A      | Z                            | 8.668              | 8.668                 | 0 %100              |

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

| Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 1            | M1        | X                            | -3.251             | -3.251                | 0 %100              |
| 2            | M1        | Z                            | 5.63               | 5.63                  | 0 %100              |
| 3            | M2        | X                            | -3.251             | -3.251                | 0 %100              |
| 4            | M2        | Z                            | 5.63               | 5.63                  | 0 %100              |
| 5            | M13       | X                            | -.236              | -.236                 | 0 %100              |
| 6            | M13       | Z                            | .408               | .408                  | 0 %100              |
| 7            | M14       | X                            | -.236              | -.236                 | 0 %100              |
| 8            | M14       | Z                            | .408               | .408                  | 0 %100              |
| 9            | M15       | X                            | -.236              | -.236                 | 0 %100              |
| 10           | M15       | Z                            | .408               | .408                  | 0 %100              |
| 11           | M16       | X                            | -.236              | -.236                 | 0 %100              |
| 12           | M16       | Z                            | .408               | .408                  | 0 %100              |
| 13           | OVP       | X                            | -.385              | -.385                 | 0 %100              |
| 14           | OVP       | Z                            | .667               | .667                  | 0 %100              |
| 15           | M18       | X                            | -.385              | -.385                 | 0 %100              |
| 16           | M18       | Z                            | .667               | .667                  | 0 %100              |
| 17           | M19       | X                            | -2.706             | -2.706                | 0 %100              |
| 18           | M19       | Z                            | 4.687              | 4.687                 | 0 %100              |
| 19           | M20       | X                            | -2.706             | -2.706                | 0 %100              |
| 20           | M20       | Z                            | 4.687              | 4.687                 | 0 %100              |
| 21           | M21       | X                            | -.707              | -.707                 | 0 %100              |
| 22           | M21       | Z                            | 1.224              | 1.224                 | 0 %100              |
| 23           | M22       | X                            | -.707              | -.707                 | 0 %100              |
| 24           | M22       | Z                            | 1.224              | 1.224                 | 0 %100              |
| 25           | M23       | X                            | -.707              | -.707                 | 0 %100              |
| 26           | M23       | Z                            | 1.224              | 1.224                 | 0 %100              |
| 27           | M24       | X                            | -.707              | -.707                 | 0 %100              |
| 28           | M24       | Z                            | 1.224              | 1.224                 | 0 %100              |



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

|    | Member Label | Direction | Start Magnitude[lb/ft,F,ksf] | End Magnitude[...] | Start Location[ft,...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|------------------------|---------------------|
| 29 | M25          | X         | -.78                         | -.78               | 0                      | %100                |
| 30 | M25          | Z         | 1.352                        | 1.352              | 0                      | %100                |
| 31 | M26          | X         | -.78                         | -.78               | 0                      | %100                |
| 32 | M26          | Z         | 1.352                        | 1.352              | 0                      | %100                |
| 33 | M27          | X         | -1.123                       | -1.123             | 0                      | %100                |
| 34 | M27          | Z         | 1.944                        | 1.944              | 0                      | %100                |
| 35 | M28          | X         | -1.123                       | -1.123             | 0                      | %100                |
| 36 | M28          | Z         | 1.944                        | 1.944              | 0                      | %100                |
| 37 | MP3A         | X         | -4.334                       | -4.334             | 0                      | %100                |
| 38 | MP3A         | Z         | 7.507                        | 7.507              | 0                      | %100                |
| 39 | MP2A         | X         | -4.334                       | -4.334             | 0                      | %100                |
| 40 | MP2A         | Z         | 7.507                        | 7.507              | 0                      | %100                |
| 41 | MP1A         | X         | -4.334                       | -4.334             | 0                      | %100                |
| 42 | MP1A         | Z         | 7.507                        | 7.507              | 0                      | %100                |
| 43 | M44          | X         | -.942                        | -.942              | 0                      | %100                |
| 44 | M44          | Z         | 1.632                        | 1.632              | 0                      | %100                |
| 45 | M45          | X         | -.942                        | -.942              | 0                      | %100                |
| 46 | M45          | Z         | 1.632                        | 1.632              | 0                      | %100                |
| 47 | M46          | X         | -.942                        | -.942              | 0                      | %100                |
| 48 | M46          | Z         | 1.632                        | 1.632              | 0                      | %100                |
| 49 | M47          | X         | -.942                        | -.942              | 0                      | %100                |
| 50 | M47          | Z         | 1.632                        | 1.632              | 0                      | %100                |
| 51 | M43          | X         | -2.416                       | -2.416             | 0                      | %100                |
| 52 | M43          | Z         | 4.184                        | 4.184              | 0                      | %100                |
| 53 | MP4A         | X         | -4.334                       | -4.334             | 0                      | %100                |
| 54 | MP4A         | Z         | 7.507                        | 7.507              | 0                      | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,F,ksf] | End Magnitude[...] | Start Location[ft,...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|------------------------|---------------------|
| 1  | M1           | X         | -1.877                       | -1.877             | 0                      | %100                |
| 2  | M1           | Z         | 1.084                        | 1.084              | 0                      | %100                |
| 3  | M2           | X         | -1.877                       | -1.877             | 0                      | %100                |
| 4  | M2           | Z         | 1.084                        | 1.084              | 0                      | %100                |
| 5  | M13          | X         | -1.224                       | -1.224             | 0                      | %100                |
| 6  | M13          | Z         | .707                         | .707               | 0                      | %100                |
| 7  | M14          | X         | -1.224                       | -1.224             | 0                      | %100                |
| 8  | M14          | Z         | .707                         | .707               | 0                      | %100                |
| 9  | M15          | X         | -1.224                       | -1.224             | 0                      | %100                |
| 10 | M15          | Z         | .707                         | .707               | 0                      | %100                |
| 11 | M16          | X         | -1.224                       | -1.224             | 0                      | %100                |
| 12 | M16          | Z         | .707                         | .707               | 0                      | %100                |
| 13 | OVP          | X         | -.094                        | -.094              | 0                      | %100                |
| 14 | OVP          | Z         | .054                         | .054               | 0                      | %100                |
| 15 | M18          | X         | -.094                        | -.094              | 0                      | %100                |
| 16 | M18          | Z         | .054                         | .054               | 0                      | %100                |
| 17 | M19          | X         | -4.114                       | -4.114             | 0                      | %100                |
| 18 | M19          | Z         | 2.375                        | 2.375              | 0                      | %100                |
| 19 | M20          | X         | -4.114                       | -4.114             | 0                      | %100                |
| 20 | M20          | Z         | 2.375                        | 2.375              | 0                      | %100                |
| 21 | M21          | X         | -.408                        | -.408              | 0                      | %100                |
| 22 | M21          | Z         | .236                         | .236               | 0                      | %100                |
| 23 | M22          | X         | -.408                        | -.408              | 0                      | %100                |
| 24 | M22          | Z         | .236                         | .236               | 0                      | %100                |
| 25 | M23          | X         | -.408                        | -.408              | 0                      | %100                |
| 26 | M23          | Z         | .236                         | .236               | 0                      | %100                |
| 27 | M24          | X         | -.408                        | -.408              | 0                      | %100                |



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

|    | Member Label | Direction | Start Magnitude[lb./ft.F,ksf] | End Magnitude[...] | Start Location[ft,...] | End Location[ft, %] |
|----|--------------|-----------|-------------------------------|--------------------|------------------------|---------------------|
| 28 | M24          | Z         | .236                          | .236               | 0                      | %100                |
| 29 | M25          | X         | -1.267                        | -1.267             | 0                      | %100                |
| 30 | M25          | Z         | .731                          | .731               | 0                      | %100                |
| 31 | M26          | X         | -1.267                        | -1.267             | 0                      | %100                |
| 32 | M26          | Z         | .731                          | .731               | 0                      | %100                |
| 33 | M27          | X         | -1.86                         | -1.86              | 0                      | %100                |
| 34 | M27          | Z         | 1.074                         | 1.074              | 0                      | %100                |
| 35 | M28          | X         | -1.86                         | -1.86              | 0                      | %100                |
| 36 | M28          | Z         | 1.074                         | 1.074              | 0                      | %100                |
| 37 | MP3A         | X         | -7.507                        | -7.507             | 0                      | %100                |
| 38 | MP3A         | Z         | 4.334                         | 4.334              | 0                      | %100                |
| 39 | MP2A         | X         | -7.507                        | -7.507             | 0                      | %100                |
| 40 | MP2A         | Z         | 4.334                         | 4.334              | 0                      | %100                |
| 41 | MP1A         | X         | -7.507                        | -7.507             | 0                      | %100                |
| 42 | MP1A         | Z         | 4.334                         | 4.334              | 0                      | %100                |
| 43 | M44          | X         | -1.632                        | -1.632             | 0                      | %100                |
| 44 | M44          | Z         | .942                          | .942               | 0                      | %100                |
| 45 | M45          | X         | -1.632                        | -1.632             | 0                      | %100                |
| 46 | M45          | Z         | .942                          | .942               | 0                      | %100                |
| 47 | M46          | X         | -1.632                        | -1.632             | 0                      | %100                |
| 48 | M46          | Z         | .942                          | .942               | 0                      | %100                |
| 49 | M47          | X         | -1.632                        | -1.632             | 0                      | %100                |
| 50 | M47          | Z         | .942                          | .942               | 0                      | %100                |
| 51 | M43          | X         | -6.158                        | -6.158             | 0                      | %100                |
| 52 | M43          | Z         | 3.556                         | 3.556              | 0                      | %100                |
| 53 | MP4A         | X         | -7.507                        | -7.507             | 0                      | %100                |
| 54 | MP4A         | Z         | 4.334                         | 4.334              | 0                      | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb./ft.F,ksf] | End Magnitude[...] | 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         | -1.884                        | -1.884             | 0                      | %100                |
| 6  | M13          | Z         | 0                             | 0                  | 0                      | %100                |
| 7  | M14          | X         | -1.884                        | -1.884             | 0                      | %100                |
| 8  | M14          | Z         | 0                             | 0                  | 0                      | %100                |
| 9  | M15          | X         | -1.884                        | -1.884             | 0                      | %100                |
| 10 | M15          | Z         | 0                             | 0                  | 0                      | %100                |
| 11 | M16          | X         | -1.884                        | -1.884             | 0                      | %100                |
| 12 | M16          | Z         | 0                             | 0                  | 0                      | %100                |
| 13 | OVP          | X         | -2.099                        | -2.099             | 0                      | %100                |
| 14 | OVP          | Z         | 0                             | 0                  | 0                      | %100                |
| 15 | M18          | X         | -2.099                        | -2.099             | 0                      | %100                |
| 16 | M18          | Z         | 0                             | 0                  | 0                      | %100                |
| 17 | M19          | X         | -2.099                        | -2.099             | 0                      | %100                |
| 18 | M19          | Z         | 0                             | 0                  | 0                      | %100                |
| 19 | M20          | X         | -2.099                        | -2.099             | 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                |



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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 27 | M24          | X         | 0                            | 0                  | 0                     | %100                |
| 28 | M24          | Z         | 0                            | 0                  | 0                     | %100                |
| 29 | M25          | X         | -1.756                       | -1.756             | 0                     | %100                |
| 30 | M25          | Z         | 0                            | 0                  | 0                     | %100                |
| 31 | M26          | X         | -1.756                       | -1.756             | 0                     | %100                |
| 32 | M26          | Z         | 0                            | 0                  | 0                     | %100                |
| 33 | M27          | X         | -1.756                       | -1.756             | 0                     | %100                |
| 34 | M27          | Z         | 0                            | 0                  | 0                     | %100                |
| 35 | M28          | X         | -1.756                       | -1.756             | 0                     | %100                |
| 36 | M28          | Z         | 0                            | 0                  | 0                     | %100                |
| 37 | MP3A         | X         | -8.668                       | -8.668             | 0                     | %100                |
| 38 | MP3A         | Z         | 0                            | 0                  | 0                     | %100                |
| 39 | MP2A         | X         | -8.668                       | -8.668             | 0                     | %100                |
| 40 | MP2A         | Z         | 0                            | 0                  | 0                     | %100                |
| 41 | MP1A         | X         | -8.668                       | -8.668             | 0                     | %100                |
| 42 | MP1A         | Z         | 0                            | 0                  | 0                     | %100                |
| 43 | M44          | X         | -1.884                       | -1.884             | 0                     | %100                |
| 44 | M44          | Z         | 0                            | 0                  | 0                     | %100                |
| 45 | M45          | X         | -1.884                       | -1.884             | 0                     | %100                |
| 46 | M45          | Z         | 0                            | 0                  | 0                     | %100                |
| 47 | M46          | X         | -1.884                       | -1.884             | 0                     | %100                |
| 48 | M46          | Z         | 0                            | 0                  | 0                     | %100                |
| 49 | M47          | X         | -1.884                       | -1.884             | 0                     | %100                |
| 50 | M47          | Z         | 0                            | 0                  | 0                     | %100                |
| 51 | M43          | X         | -5.86                        | -5.86              | 0                     | %100                |
| 52 | M43          | Z         | 0                            | 0                  | 0                     | %100                |
| 53 | MP4A         | X         | -8.668                       | -8.668             | 0                     | %100                |
| 54 | MP4A         | Z         | 0                            | 0                  | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 1  | M1           | X         | -1.877                       | -1.877             | 0                     | %100                |
| 2  | M1           | Z         | -1.084                       | -1.084             | 0                     | %100                |
| 3  | M2           | X         | -1.877                       | -1.877             | 0                     | %100                |
| 4  | M2           | Z         | -1.084                       | -1.084             | 0                     | %100                |
| 5  | M13          | X         | -1.224                       | -1.224             | 0                     | %100                |
| 6  | M13          | Z         | -.707                        | -.707              | 0                     | %100                |
| 7  | M14          | X         | -1.224                       | -1.224             | 0                     | %100                |
| 8  | M14          | Z         | -.707                        | -.707              | 0                     | %100                |
| 9  | M15          | X         | -1.224                       | -1.224             | 0                     | %100                |
| 10 | M15          | Z         | -.707                        | -.707              | 0                     | %100                |
| 11 | M16          | X         | -1.224                       | -1.224             | 0                     | %100                |
| 12 | M16          | Z         | -.707                        | -.707              | 0                     | %100                |
| 13 | OVP          | X         | -4.114                       | -4.114             | 0                     | %100                |
| 14 | OVP          | Z         | -2.375                       | -2.375             | 0                     | %100                |
| 15 | M18          | X         | -4.114                       | -4.114             | 0                     | %100                |
| 16 | M18          | Z         | -2.375                       | -2.375             | 0                     | %100                |
| 17 | M19          | X         | -.094                        | -.094              | 0                     | %100                |
| 18 | M19          | Z         | -.054                        | -.054              | 0                     | %100                |
| 19 | M20          | X         | -.094                        | -.094              | 0                     | %100                |
| 20 | M20          | Z         | -.054                        | -.054              | 0                     | %100                |
| 21 | M21          | X         | -.408                        | -.408              | 0                     | %100                |
| 22 | M21          | Z         | -.236                        | -.236              | 0                     | %100                |
| 23 | M22          | X         | -.408                        | -.408              | 0                     | %100                |
| 24 | M22          | Z         | -.236                        | -.236              | 0                     | %100                |
| 25 | M23          | X         | -.408                        | -.408              | 0                     | %100                |





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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 26 | M23          | Z         | -236                         | -236               | 0                     | %100                |
| 27 | M24          | X         | -408                         | -408               | 0                     | %100                |
| 28 | M24          | Z         | -236                         | -236               | 0                     | %100                |
| 29 | M25          | X         | -1.86                        | -1.86              | 0                     | %100                |
| 30 | M25          | Z         | -1.074                       | -1.074             | 0                     | %100                |
| 31 | M26          | X         | -1.86                        | -1.86              | 0                     | %100                |
| 32 | M26          | Z         | -1.074                       | -1.074             | 0                     | %100                |
| 33 | M27          | X         | -1.267                       | -1.267             | 0                     | %100                |
| 34 | M27          | Z         | -.731                        | -.731              | 0                     | %100                |
| 35 | M28          | X         | -1.267                       | -1.267             | 0                     | %100                |
| 36 | M28          | Z         | -.731                        | -.731              | 0                     | %100                |
| 37 | MP3A         | X         | -7.507                       | -7.507             | 0                     | %100                |
| 38 | MP3A         | Z         | -4.334                       | -4.334             | 0                     | %100                |
| 39 | MP2A         | X         | -7.507                       | -7.507             | 0                     | %100                |
| 40 | MP2A         | Z         | -4.334                       | -4.334             | 0                     | %100                |
| 41 | MP1A         | X         | -7.507                       | -7.507             | 0                     | %100                |
| 42 | MP1A         | Z         | -4.334                       | -4.334             | 0                     | %100                |
| 43 | M44          | X         | -1.632                       | -1.632             | 0                     | %100                |
| 44 | M44          | Z         | -.942                        | -.942              | 0                     | %100                |
| 45 | M45          | X         | -1.632                       | -1.632             | 0                     | %100                |
| 46 | M45          | Z         | -.942                        | -.942              | 0                     | %100                |
| 47 | M46          | X         | -1.632                       | -1.632             | 0                     | %100                |
| 48 | M46          | Z         | -.942                        | -.942              | 0                     | %100                |
| 49 | M47          | X         | -1.632                       | -1.632             | 0                     | %100                |
| 50 | M47          | Z         | -.942                        | -.942              | 0                     | %100                |
| 51 | M43          | X         | -2.017                       | -2.017             | 0                     | %100                |
| 52 | M43          | Z         | -1.164                       | -1.164             | 0                     | %100                |
| 53 | MP4A         | X         | -7.507                       | -7.507             | 0                     | %100                |
| 54 | MP4A         | Z         | -4.334                       | -4.334             | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 1  | M1           | X         | -3.251                       | -3.251             | 0                     | %100                |
| 2  | M1           | Z         | -5.63                        | -5.63              | 0                     | %100                |
| 3  | M2           | X         | -3.251                       | -3.251             | 0                     | %100                |
| 4  | M2           | Z         | -5.63                        | -5.63              | 0                     | %100                |
| 5  | M13          | X         | -236                         | -236               | 0                     | %100                |
| 6  | M13          | Z         | -408                         | -408               | 0                     | %100                |
| 7  | M14          | X         | -236                         | -236               | 0                     | %100                |
| 8  | M14          | Z         | -408                         | -408               | 0                     | %100                |
| 9  | M15          | X         | -236                         | -236               | 0                     | %100                |
| 10 | M15          | Z         | -408                         | -408               | 0                     | %100                |
| 11 | M16          | X         | -236                         | -236               | 0                     | %100                |
| 12 | M16          | Z         | -408                         | -408               | 0                     | %100                |
| 13 | OVP          | X         | -2.706                       | -2.706             | 0                     | %100                |
| 14 | OVP          | Z         | -4.687                       | -4.687             | 0                     | %100                |
| 15 | M18          | X         | -2.706                       | -2.706             | 0                     | %100                |
| 16 | M18          | Z         | -4.687                       | -4.687             | 0                     | %100                |
| 17 | M19          | X         | -.385                        | -.385              | 0                     | %100                |
| 18 | M19          | Z         | -.667                        | -.667              | 0                     | %100                |
| 19 | M20          | X         | -.385                        | -.385              | 0                     | %100                |
| 20 | M20          | Z         | -.667                        | -.667              | 0                     | %100                |
| 21 | M21          | X         | -.707                        | -.707              | 0                     | %100                |
| 22 | M21          | Z         | -1.224                       | -1.224             | 0                     | %100                |
| 23 | M22          | X         | -.707                        | -.707              | 0                     | %100                |
| 24 | M22          | Z         | -1.224                       | -1.224             | 0                     | %100                |



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

|    | Member Label | Direction | Start Magnitude[lb/ft,F,ksf] | End Magnitude[...] | Start Location[ft,...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|------------------------|---------------------|
| 25 | M23          | X         | -707                         | -707               | 0                      | %100                |
| 26 | M23          | Z         | -1.224                       | -1.224             | 0                      | %100                |
| 27 | M24          | X         | -707                         | -707               | 0                      | %100                |
| 28 | M24          | Z         | -1.224                       | -1.224             | 0                      | %100                |
| 29 | M25          | X         | -1.123                       | -1.123             | 0                      | %100                |
| 30 | M25          | Z         | -1.944                       | -1.944             | 0                      | %100                |
| 31 | M26          | X         | -1.123                       | -1.123             | 0                      | %100                |
| 32 | M26          | Z         | -1.944                       | -1.944             | 0                      | %100                |
| 33 | M27          | X         | -78                          | -78                | 0                      | %100                |
| 34 | M27          | Z         | -1.352                       | -1.352             | 0                      | %100                |
| 35 | M28          | X         | -78                          | -78                | 0                      | %100                |
| 36 | M28          | Z         | -1.352                       | -1.352             | 0                      | %100                |
| 37 | MP3A         | X         | -4.334                       | -4.334             | 0                      | %100                |
| 38 | MP3A         | Z         | -7.507                       | -7.507             | 0                      | %100                |
| 39 | MP2A         | X         | -4.334                       | -4.334             | 0                      | %100                |
| 40 | MP2A         | Z         | -7.507                       | -7.507             | 0                      | %100                |
| 41 | MP1A         | X         | -4.334                       | -4.334             | 0                      | %100                |
| 42 | MP1A         | Z         | -7.507                       | -7.507             | 0                      | %100                |
| 43 | M44          | X         | -.942                        | -.942              | 0                      | %100                |
| 44 | M44          | Z         | -1.632                       | -1.632             | 0                      | %100                |
| 45 | M45          | X         | -.942                        | -.942              | 0                      | %100                |
| 46 | M45          | Z         | -1.632                       | -1.632             | 0                      | %100                |
| 47 | M46          | X         | -.942                        | -.942              | 0                      | %100                |
| 48 | M46          | Z         | -1.632                       | -1.632             | 0                      | %100                |
| 49 | M47          | X         | -.942                        | -.942              | 0                      | %100                |
| 50 | M47          | Z         | -1.632                       | -1.632             | 0                      | %100                |
| 51 | M43          | X         | -.025                        | -.025              | 0                      | %100                |
| 52 | M43          | Z         | -.043                        | -.043              | 0                      | %100                |
| 53 | MP4A         | X         | -4.334                       | -4.334             | 0                      | %100                |
| 54 | MP4A         | Z         | -7.507                       | -7.507             | 0                      | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,F,ksf] | End Magnitude[...] | Start Location[ft,...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|------------------------|---------------------|
| 1  | M1           | X         | 0                            | 0                  | 0                      | %100                |
| 2  | M1           | Z         | -2.662                       | -2.662             | 0                      | %100                |
| 3  | M2           | X         | 0                            | 0                  | 0                      | %100                |
| 4  | M2           | Z         | -2.662                       | -2.662             | 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 | OVP          | X         | 0                            | 0                  | 0                      | %100                |
| 14 | OVP          | Z         | -1.16                        | -1.16              | 0                      | %100                |
| 15 | M18          | X         | 0                            | 0                  | 0                      | %100                |
| 16 | M18          | Z         | -1.16                        | -1.16              | 0                      | %100                |
| 17 | M19          | X         | 0                            | 0                  | 0                      | %100                |
| 18 | M19          | Z         | -1.16                        | -1.16              | 0                      | %100                |
| 19 | M20          | X         | 0                            | 0                  | 0                      | %100                |
| 20 | M20          | Z         | -1.16                        | -1.16              | 0                      | %100                |
| 21 | M21          | X         | 0                            | 0                  | 0                      | %100                |
| 22 | M21          | Z         | -1.01                        | -1.01              | 0                      | %100                |
| 23 | M22          | 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.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 24 | M22          | Z         | -1.01                        | -1.01              | 0                     | %100                |
| 25 | M23          | X         | 0                            | 0                  | 0                     | %100                |
| 26 | M23          | Z         | -1.01                        | -1.01              | 0                     | %100                |
| 27 | M24          | X         | 0                            | 0                  | 0                     | %100                |
| 28 | M24          | Z         | -1.01                        | -1.01              | 0                     | %100                |
| 29 | M25          | X         | 0                            | 0                  | 0                     | %100                |
| 30 | M25          | Z         | -1.294                       | -1.294             | 0                     | %100                |
| 31 | M26          | X         | 0                            | 0                  | 0                     | %100                |
| 32 | M26          | Z         | -1.294                       | -1.294             | 0                     | %100                |
| 33 | M27          | X         | 0                            | 0                  | 0                     | %100                |
| 34 | M27          | Z         | -1.294                       | -1.294             | 0                     | %100                |
| 35 | M28          | X         | 0                            | 0                  | 0                     | %100                |
| 36 | M28          | Z         | -1.294                       | -1.294             | 0                     | %100                |
| 37 | MP3A         | X         | 0                            | 0                  | 0                     | %100                |
| 38 | MP3A         | Z         | -2.662                       | -2.662             | 0                     | %100                |
| 39 | MP2A         | X         | 0                            | 0                  | 0                     | %100                |
| 40 | MP2A         | Z         | -2.662                       | -2.662             | 0                     | %100                |
| 41 | MP1A         | X         | 0                            | 0                  | 0                     | %100                |
| 42 | MP1A         | Z         | -2.662                       | -2.662             | 0                     | %100                |
| 43 | M44          | X         | 0                            | 0                  | 0                     | %100                |
| 44 | M44          | Z         | -1.336                       | -1.336             | 0                     | %100                |
| 45 | M45          | X         | 0                            | 0                  | 0                     | %100                |
| 46 | M45          | Z         | -1.336                       | -1.336             | 0                     | %100                |
| 47 | M46          | X         | 0                            | 0                  | 0                     | %100                |
| 48 | M46          | Z         | -1.336                       | -1.336             | 0                     | %100                |
| 49 | M47          | X         | 0                            | 0                  | 0                     | %100                |
| 50 | M47          | Z         | -1.336                       | -1.336             | 0                     | %100                |
| 51 | M43          | X         | 0                            | 0                  | 0                     | %100                |
| 52 | M43          | Z         | -.436                        | -.436              | 0                     | %100                |
| 53 | MP4A         | X         | 0                            | 0                  | 0                     | %100                |
| 54 | MP4A         | Z         | -2.662                       | -2.662             | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 1  | M1           | X         | .998                         | .998               | 0                     | %100                |
| 2  | M1           | Z         | -1.729                       | -1.729             | 0                     | %100                |
| 3  | M2           | X         | .998                         | .998               | 0                     | %100                |
| 4  | M2           | Z         | -1.729                       | -1.729             | 0                     | %100                |
| 5  | M13          | X         | .125                         | .125               | 0                     | %100                |
| 6  | M13          | Z         | -.217                        | -.217              | 0                     | %100                |
| 7  | M14          | X         | .125                         | .125               | 0                     | %100                |
| 8  | M14          | Z         | -.217                        | -.217              | 0                     | %100                |
| 9  | M15          | X         | .125                         | .125               | 0                     | %100                |
| 10 | M15          | Z         | -.217                        | -.217              | 0                     | %100                |
| 11 | M16          | X         | .125                         | .125               | 0                     | %100                |
| 12 | M16          | Z         | -.217                        | -.217              | 0                     | %100                |
| 13 | OVP          | X         | .131                         | .131               | 0                     | %100                |
| 14 | OVP          | Z         | -.226                        | -.226              | 0                     | %100                |
| 15 | M18          | X         | .131                         | .131               | 0                     | %100                |
| 16 | M18          | Z         | -.226                        | -.226              | 0                     | %100                |
| 17 | M19          | X         | .917                         | .917               | 0                     | %100                |
| 18 | M19          | Z         | -1.588                       | -1.588             | 0                     | %100                |
| 19 | M20          | X         | .917                         | .917               | 0                     | %100                |
| 20 | M20          | Z         | -1.588                       | -1.588             | 0                     | %100                |
| 21 | M21          | X         | .379                         | .379               | 0                     | %100                |
| 22 | M21          | Z         | -.656                        | -.656              | 0                     | %100                |



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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 23 | M22          | X         | .379                         | .379               | 0                     | %100                |
| 24 | M22          | Z         | -.656                        | -.656              | 0                     | %100                |
| 25 | M23          | X         | .379                         | .379               | 0                     | %100                |
| 26 | M23          | Z         | -.656                        | -.656              | 0                     | %100                |
| 27 | M24          | X         | .379                         | .379               | 0                     | %100                |
| 28 | M24          | Z         | -.656                        | -.656              | 0                     | %100                |
| 29 | M25          | X         | .517                         | .517               | 0                     | %100                |
| 30 | M25          | Z         | -.896                        | -.896              | 0                     | %100                |
| 31 | M26          | X         | .517                         | .517               | 0                     | %100                |
| 32 | M26          | Z         | -.896                        | -.896              | 0                     | %100                |
| 33 | M27          | X         | .744                         | .744               | 0                     | %100                |
| 34 | M27          | Z         | -1.289                       | -1.289             | 0                     | %100                |
| 35 | M28          | X         | .744                         | .744               | 0                     | %100                |
| 36 | M28          | Z         | -1.289                       | -1.289             | 0                     | %100                |
| 37 | MP3A         | X         | 1.331                        | 1.331              | 0                     | %100                |
| 38 | MP3A         | Z         | -2.306                       | -2.306             | 0                     | %100                |
| 39 | MP2A         | X         | 1.331                        | 1.331              | 0                     | %100                |
| 40 | MP2A         | Z         | -2.306                       | -2.306             | 0                     | %100                |
| 41 | MP1A         | X         | 1.331                        | 1.331              | 0                     | %100                |
| 42 | MP1A         | Z         | -2.306                       | -2.306             | 0                     | %100                |
| 43 | M44          | X         | .668                         | .668               | 0                     | %100                |
| 44 | M44          | Z         | -1.157                       | -1.157             | 0                     | %100                |
| 45 | M45          | X         | .668                         | .668               | 0                     | %100                |
| 46 | M45          | Z         | -1.157                       | -1.157             | 0                     | %100                |
| 47 | M46          | X         | .668                         | .668               | 0                     | %100                |
| 48 | M46          | Z         | -1.157                       | -1.157             | 0                     | %100                |
| 49 | M47          | X         | .668                         | .668               | 0                     | %100                |
| 50 | M47          | Z         | -1.157                       | -1.157             | 0                     | %100                |
| 51 | M43          | X         | .81                          | .81                | 0                     | %100                |
| 52 | M43          | Z         | -1.403                       | -1.403             | 0                     | %100                |
| 53 | MP4A         | X         | 1.331                        | 1.331              | 0                     | %100                |
| 54 | MP4A         | Z         | -2.306                       | -2.306             | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 1  | M1           | X         | .576                         | .576               | 0                     | %100                |
| 2  | M1           | Z         | -.333                        | -.333              | 0                     | %100                |
| 3  | M2           | X         | .576                         | .576               | 0                     | %100                |
| 4  | M2           | Z         | -.333                        | -.333              | 0                     | %100                |
| 5  | M13          | X         | .651                         | .651               | 0                     | %100                |
| 6  | M13          | Z         | -.376                        | -.376              | 0                     | %100                |
| 7  | M14          | X         | .651                         | .651               | 0                     | %100                |
| 8  | M14          | Z         | -.376                        | -.376              | 0                     | %100                |
| 9  | M15          | X         | .651                         | .651               | 0                     | %100                |
| 10 | M15          | Z         | -.376                        | -.376              | 0                     | %100                |
| 11 | M16          | X         | .651                         | .651               | 0                     | %100                |
| 12 | M16          | Z         | -.376                        | -.376              | 0                     | %100                |
| 13 | OVP          | X         | .032                         | .032               | 0                     | %100                |
| 14 | OVP          | Z         | -.018                        | -.018              | 0                     | %100                |
| 15 | M18          | X         | .032                         | .032               | 0                     | %100                |
| 16 | M18          | Z         | -.018                        | -.018              | 0                     | %100                |
| 17 | M19          | X         | 1.394                        | 1.394              | 0                     | %100                |
| 18 | M19          | Z         | -.805                        | -.805              | 0                     | %100                |
| 19 | M20          | X         | 1.394                        | 1.394              | 0                     | %100                |
| 20 | M20          | Z         | -.805                        | -.805              | 0                     | %100                |
| 21 | M21          | X         | .219                         | .219               | 0                     | %100                |



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

|    | Member Label | Direction | Start Magnitude[lb./ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|-------------------------------|--------------------|-----------------------|---------------------|
| 22 | M21          | Z         | -.126                         | -.126              | 0                     | %100                |
| 23 | M22          | X         | .219                          | .219               | 0                     | %100                |
| 24 | M22          | Z         | -.126                         | -.126              | 0                     | %100                |
| 25 | M23          | X         | .219                          | .219               | 0                     | %100                |
| 26 | M23          | Z         | -.126                         | -.126              | 0                     | %100                |
| 27 | M24          | X         | .219                          | .219               | 0                     | %100                |
| 28 | M24          | Z         | -.126                         | -.126              | 0                     | %100                |
| 29 | M25          | X         | .84                           | .84                | 0                     | %100                |
| 30 | M25          | Z         | -.485                         | -.485              | 0                     | %100                |
| 31 | M26          | X         | .84                           | .84                | 0                     | %100                |
| 32 | M26          | Z         | -.485                         | -.485              | 0                     | %100                |
| 33 | M27          | X         | 1.233                         | 1.233              | 0                     | %100                |
| 34 | M27          | Z         | -.712                         | -.712              | 0                     | %100                |
| 35 | M28          | X         | 1.233                         | 1.233              | 0                     | %100                |
| 36 | M28          | Z         | -.712                         | -.712              | 0                     | %100                |
| 37 | MP3A         | X         | 2.306                         | 2.306              | 0                     | %100                |
| 38 | MP3A         | Z         | -1.331                        | -1.331             | 0                     | %100                |
| 39 | MP2A         | X         | 2.306                         | 2.306              | 0                     | %100                |
| 40 | MP2A         | Z         | -1.331                        | -1.331             | 0                     | %100                |
| 41 | MP1A         | X         | 2.306                         | 2.306              | 0                     | %100                |
| 42 | MP1A         | Z         | -1.331                        | -1.331             | 0                     | %100                |
| 43 | M44          | X         | 1.157                         | 1.157              | 0                     | %100                |
| 44 | M44          | Z         | -.668                         | -.668              | 0                     | %100                |
| 45 | M45          | X         | 1.157                         | 1.157              | 0                     | %100                |
| 46 | M45          | Z         | -.668                         | -.668              | 0                     | %100                |
| 47 | M46          | X         | 1.157                         | 1.157              | 0                     | %100                |
| 48 | M46          | Z         | -.668                         | -.668              | 0                     | %100                |
| 49 | M47          | X         | 1.157                         | 1.157              | 0                     | %100                |
| 50 | M47          | Z         | -.668                         | -.668              | 0                     | %100                |
| 51 | M43          | X         | 2.065                         | 2.065              | 0                     | %100                |
| 52 | M43          | Z         | -1.192                        | -1.192             | 0                     | %100                |
| 53 | MP4A         | X         | 2.306                         | 2.306              | 0                     | %100                |
| 54 | MP4A         | Z         | -1.331                        | -1.331             | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb./ft.F,ksf] | End Magnitude[...] | 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         | 1.002                         | 1.002              | 0                     | %100                |
| 6  | M13          | Z         | 0                             | 0                  | 0                     | %100                |
| 7  | M14          | X         | 1.002                         | 1.002              | 0                     | %100                |
| 8  | M14          | Z         | 0                             | 0                  | 0                     | %100                |
| 9  | M15          | X         | 1.002                         | 1.002              | 0                     | %100                |
| 10 | M15          | Z         | 0                             | 0                  | 0                     | %100                |
| 11 | M16          | X         | 1.002                         | 1.002              | 0                     | %100                |
| 12 | M16          | Z         | 0                             | 0                  | 0                     | %100                |
| 13 | OVP          | X         | .711                          | .711               | 0                     | %100                |
| 14 | OVP          | Z         | 0                             | 0                  | 0                     | %100                |
| 15 | M18          | X         | .711                          | .711               | 0                     | %100                |
| 16 | M18          | Z         | 0                             | 0                  | 0                     | %100                |
| 17 | M19          | X         | .711                          | .711               | 0                     | %100                |
| 18 | M19          | Z         | 0                             | 0                  | 0                     | %100                |
| 19 | M20          | X         | .711                          | .711               | 0                     | %100                |
| 20 | M20          | Z         | 0                             | 0                  | 0                     | %100                |



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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 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         | 1.164                        | 1.164              | 0                     | %100                |
| 30 | M25          | Z         | 0                            | 0                  | 0                     | %100                |
| 31 | M26          | X         | 1.164                        | 1.164              | 0                     | %100                |
| 32 | M26          | Z         | 0                            | 0                  | 0                     | %100                |
| 33 | M27          | X         | 1.164                        | 1.164              | 0                     | %100                |
| 34 | M27          | Z         | 0                            | 0                  | 0                     | %100                |
| 35 | M28          | X         | 1.164                        | 1.164              | 0                     | %100                |
| 36 | M28          | Z         | 0                            | 0                  | 0                     | %100                |
| 37 | MP3A         | X         | 2.662                        | 2.662              | 0                     | %100                |
| 38 | MP3A         | Z         | 0                            | 0                  | 0                     | %100                |
| 39 | MP2A         | X         | 2.662                        | 2.662              | 0                     | %100                |
| 40 | MP2A         | Z         | 0                            | 0                  | 0                     | %100                |
| 41 | MP1A         | X         | 2.662                        | 2.662              | 0                     | %100                |
| 42 | MP1A         | Z         | 0                            | 0                  | 0                     | %100                |
| 43 | M44          | X         | 1.336                        | 1.336              | 0                     | %100                |
| 44 | M44          | Z         | 0                            | 0                  | 0                     | %100                |
| 45 | M45          | X         | 1.336                        | 1.336              | 0                     | %100                |
| 46 | M45          | Z         | 0                            | 0                  | 0                     | %100                |
| 47 | M46          | X         | 1.336                        | 1.336              | 0                     | %100                |
| 48 | M46          | Z         | 0                            | 0                  | 0                     | %100                |
| 49 | M47          | X         | 1.336                        | 1.336              | 0                     | %100                |
| 50 | M47          | Z         | 0                            | 0                  | 0                     | %100                |
| 51 | M43          | X         | 1.964                        | 1.964              | 0                     | %100                |
| 52 | M43          | Z         | 0                            | 0                  | 0                     | %100                |
| 53 | MP4A         | X         | 2.662                        | 2.662              | 0                     | %100                |
| 54 | MP4A         | Z         | 0                            | 0                  | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 1  | M1           | X         | .576                         | .576               | 0                     | %100                |
| 2  | M1           | Z         | .333                         | .333               | 0                     | %100                |
| 3  | M2           | X         | .576                         | .576               | 0                     | %100                |
| 4  | M2           | Z         | .333                         | .333               | 0                     | %100                |
| 5  | M13          | X         | .651                         | .651               | 0                     | %100                |
| 6  | M13          | Z         | .376                         | .376               | 0                     | %100                |
| 7  | M14          | X         | .651                         | .651               | 0                     | %100                |
| 8  | M14          | Z         | .376                         | .376               | 0                     | %100                |
| 9  | M15          | X         | .651                         | .651               | 0                     | %100                |
| 10 | M15          | Z         | .376                         | .376               | 0                     | %100                |
| 11 | M16          | X         | .651                         | .651               | 0                     | %100                |
| 12 | M16          | Z         | .376                         | .376               | 0                     | %100                |
| 13 | OVP          | X         | 1.394                        | 1.394              | 0                     | %100                |
| 14 | OVP          | Z         | .805                         | .805               | 0                     | %100                |
| 15 | M18          | X         | 1.394                        | 1.394              | 0                     | %100                |
| 16 | M18          | Z         | .805                         | .805               | 0                     | %100                |
| 17 | M19          | X         | .032                         | .032               | 0                     | %100                |
| 18 | M19          | Z         | .018                         | .018               | 0                     | %100                |
| 19 | M20          | X         | .032                         | .032               | 0                     | %100                |



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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 20 | M20          | Z         | .018                         | .018               | 0                     | %100                |
| 21 | M21          | X         | .219                         | .219               | 0                     | %100                |
| 22 | M21          | Z         | .126                         | .126               | 0                     | %100                |
| 23 | M22          | X         | .219                         | .219               | 0                     | %100                |
| 24 | M22          | Z         | .126                         | .126               | 0                     | %100                |
| 25 | M23          | X         | .219                         | .219               | 0                     | %100                |
| 26 | M23          | Z         | .126                         | .126               | 0                     | %100                |
| 27 | M24          | X         | .219                         | .219               | 0                     | %100                |
| 28 | M24          | Z         | .126                         | .126               | 0                     | %100                |
| 29 | M25          | X         | 1.233                        | 1.233              | 0                     | %100                |
| 30 | M25          | Z         | .712                         | .712               | 0                     | %100                |
| 31 | M26          | X         | 1.233                        | 1.233              | 0                     | %100                |
| 32 | M26          | Z         | .712                         | .712               | 0                     | %100                |
| 33 | M27          | X         | .84                          | .84                | 0                     | %100                |
| 34 | M27          | Z         | .485                         | .485               | 0                     | %100                |
| 35 | M28          | X         | .84                          | .84                | 0                     | %100                |
| 36 | M28          | Z         | .485                         | .485               | 0                     | %100                |
| 37 | MP3A         | X         | 2.306                        | 2.306              | 0                     | %100                |
| 38 | MP3A         | Z         | 1.331                        | 1.331              | 0                     | %100                |
| 39 | MP2A         | X         | 2.306                        | 2.306              | 0                     | %100                |
| 40 | MP2A         | Z         | 1.331                        | 1.331              | 0                     | %100                |
| 41 | MP1A         | X         | 2.306                        | 2.306              | 0                     | %100                |
| 42 | MP1A         | Z         | 1.331                        | 1.331              | 0                     | %100                |
| 43 | M44          | X         | 1.157                        | 1.157              | 0                     | %100                |
| 44 | M44          | Z         | .668                         | .668               | 0                     | %100                |
| 45 | M45          | X         | 1.157                        | 1.157              | 0                     | %100                |
| 46 | M45          | Z         | .668                         | .668               | 0                     | %100                |
| 47 | M46          | X         | 1.157                        | 1.157              | 0                     | %100                |
| 48 | M46          | Z         | .668                         | .668               | 0                     | %100                |
| 49 | M47          | X         | 1.157                        | 1.157              | 0                     | %100                |
| 50 | M47          | Z         | .668                         | .668               | 0                     | %100                |
| 51 | M43          | X         | .676                         | .676               | 0                     | %100                |
| 52 | M43          | Z         | .39                          | .39                | 0                     | %100                |
| 53 | MP4A         | X         | 2.306                        | 2.306              | 0                     | %100                |
| 54 | MP4A         | Z         | 1.331                        | 1.331              | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 1  | M1           | X         | .998                         | .998               | 0                     | %100                |
| 2  | M1           | Z         | 1.729                        | 1.729              | 0                     | %100                |
| 3  | M2           | X         | .998                         | .998               | 0                     | %100                |
| 4  | M2           | Z         | 1.729                        | 1.729              | 0                     | %100                |
| 5  | M13          | X         | .125                         | .125               | 0                     | %100                |
| 6  | M13          | Z         | .217                         | .217               | 0                     | %100                |
| 7  | M14          | X         | .125                         | .125               | 0                     | %100                |
| 8  | M14          | Z         | .217                         | .217               | 0                     | %100                |
| 9  | M15          | X         | .125                         | .125               | 0                     | %100                |
| 10 | M15          | Z         | .217                         | .217               | 0                     | %100                |
| 11 | M16          | X         | .125                         | .125               | 0                     | %100                |
| 12 | M16          | Z         | .217                         | .217               | 0                     | %100                |
| 13 | OVP          | X         | .917                         | .917               | 0                     | %100                |
| 14 | OVP          | Z         | 1.588                        | 1.588              | 0                     | %100                |
| 15 | M18          | X         | .917                         | .917               | 0                     | %100                |
| 16 | M18          | Z         | 1.588                        | 1.588              | 0                     | %100                |
| 17 | M19          | X         | .131                         | .131               | 0                     | %100                |
| 18 | M19          | Z         | .226                         | .226               | 0                     | %100                |





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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 19 | M20          | X         | .131                         | .131               | 0                     | %100                |
| 20 | M20          | Z         | .226                         | .226               | 0                     | %100                |
| 21 | M21          | X         | .379                         | .379               | 0                     | %100                |
| 22 | M21          | Z         | .656                         | .656               | 0                     | %100                |
| 23 | M22          | X         | .379                         | .379               | 0                     | %100                |
| 24 | M22          | Z         | .656                         | .656               | 0                     | %100                |
| 25 | M23          | X         | .379                         | .379               | 0                     | %100                |
| 26 | M23          | Z         | .656                         | .656               | 0                     | %100                |
| 27 | M24          | X         | .379                         | .379               | 0                     | %100                |
| 28 | M24          | Z         | .656                         | .656               | 0                     | %100                |
| 29 | M25          | X         | .744                         | .744               | 0                     | %100                |
| 30 | M25          | Z         | 1.289                        | 1.289              | 0                     | %100                |
| 31 | M26          | X         | .744                         | .744               | 0                     | %100                |
| 32 | M26          | Z         | 1.289                        | 1.289              | 0                     | %100                |
| 33 | M27          | X         | .517                         | .517               | 0                     | %100                |
| 34 | M27          | Z         | .896                         | .896               | 0                     | %100                |
| 35 | M28          | X         | .517                         | .517               | 0                     | %100                |
| 36 | M28          | Z         | .896                         | .896               | 0                     | %100                |
| 37 | MP3A         | X         | 1.331                        | 1.331              | 0                     | %100                |
| 38 | MP3A         | Z         | 2.306                        | 2.306              | 0                     | %100                |
| 39 | MP2A         | X         | 1.331                        | 1.331              | 0                     | %100                |
| 40 | MP2A         | Z         | 2.306                        | 2.306              | 0                     | %100                |
| 41 | MP1A         | X         | 1.331                        | 1.331              | 0                     | %100                |
| 42 | MP1A         | Z         | 2.306                        | 2.306              | 0                     | %100                |
| 43 | M44          | X         | .668                         | .668               | 0                     | %100                |
| 44 | M44          | Z         | 1.157                        | 1.157              | 0                     | %100                |
| 45 | M45          | X         | .668                         | .668               | 0                     | %100                |
| 46 | M45          | Z         | 1.157                        | 1.157              | 0                     | %100                |
| 47 | M46          | X         | .668                         | .668               | 0                     | %100                |
| 48 | M46          | Z         | 1.157                        | 1.157              | 0                     | %100                |
| 49 | M47          | X         | .668                         | .668               | 0                     | %100                |
| 50 | M47          | Z         | 1.157                        | 1.157              | 0                     | %100                |
| 51 | M43          | X         | .008                         | .008               | 0                     | %100                |
| 52 | M43          | Z         | .014                         | .014               | 0                     | %100                |
| 53 | MP4A         | X         | 1.331                        | 1.331              | 0                     | %100                |
| 54 | MP4A         | Z         | 2.306                        | 2.306              | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 1  | M1           | X         | 0                            | 0                  | 0                     | %100                |
| 2  | M1           | Z         | 2.662                        | 2.662              | 0                     | %100                |
| 3  | M2           | X         | 0                            | 0                  | 0                     | %100                |
| 4  | M2           | Z         | 2.662                        | 2.662              | 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 | OVP          | X         | 0                            | 0                  | 0                     | %100                |
| 14 | OVP          | Z         | 1.16                         | 1.16               | 0                     | %100                |
| 15 | M18          | X         | 0                            | 0                  | 0                     | %100                |
| 16 | M18          | Z         | 1.16                         | 1.16               | 0                     | %100                |
| 17 | M19          | X         | 0                            | 0                  | 0                     | %100                |



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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft,%] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|--------------------|
| 18 | M19          | Z         | 1.16                         | 1.16               | 0                     | %100               |
| 19 | M20          | X         | 0                            | 0                  | 0                     | %100               |
| 20 | M20          | Z         | 1.16                         | 1.16               | 0                     | %100               |
| 21 | M21          | X         | 0                            | 0                  | 0                     | %100               |
| 22 | M21          | Z         | 1.01                         | 1.01               | 0                     | %100               |
| 23 | M22          | X         | 0                            | 0                  | 0                     | %100               |
| 24 | M22          | Z         | 1.01                         | 1.01               | 0                     | %100               |
| 25 | M23          | X         | 0                            | 0                  | 0                     | %100               |
| 26 | M23          | Z         | 1.01                         | 1.01               | 0                     | %100               |
| 27 | M24          | X         | 0                            | 0                  | 0                     | %100               |
| 28 | M24          | Z         | 1.01                         | 1.01               | 0                     | %100               |
| 29 | M25          | X         | 0                            | 0                  | 0                     | %100               |
| 30 | M25          | Z         | 1.294                        | 1.294              | 0                     | %100               |
| 31 | M26          | X         | 0                            | 0                  | 0                     | %100               |
| 32 | M26          | Z         | 1.294                        | 1.294              | 0                     | %100               |
| 33 | M27          | X         | 0                            | 0                  | 0                     | %100               |
| 34 | M27          | Z         | 1.294                        | 1.294              | 0                     | %100               |
| 35 | M28          | X         | 0                            | 0                  | 0                     | %100               |
| 36 | M28          | Z         | 1.294                        | 1.294              | 0                     | %100               |
| 37 | MP3A         | X         | 0                            | 0                  | 0                     | %100               |
| 38 | MP3A         | Z         | 2.662                        | 2.662              | 0                     | %100               |
| 39 | MP2A         | X         | 0                            | 0                  | 0                     | %100               |
| 40 | MP2A         | Z         | 2.662                        | 2.662              | 0                     | %100               |
| 41 | MP1A         | X         | 0                            | 0                  | 0                     | %100               |
| 42 | MP1A         | Z         | 2.662                        | 2.662              | 0                     | %100               |
| 43 | M44          | X         | 0                            | 0                  | 0                     | %100               |
| 44 | M44          | Z         | 1.336                        | 1.336              | 0                     | %100               |
| 45 | M45          | X         | 0                            | 0                  | 0                     | %100               |
| 46 | M45          | Z         | 1.336                        | 1.336              | 0                     | %100               |
| 47 | M46          | X         | 0                            | 0                  | 0                     | %100               |
| 48 | M46          | Z         | 1.336                        | 1.336              | 0                     | %100               |
| 49 | M47          | X         | 0                            | 0                  | 0                     | %100               |
| 50 | M47          | Z         | 1.336                        | 1.336              | 0                     | %100               |
| 51 | M43          | X         | 0                            | 0                  | 0                     | %100               |
| 52 | M43          | Z         | .436                         | .436               | 0                     | %100               |
| 53 | MP4A         | X         | 0                            | 0                  | 0                     | %100               |
| 54 | MP4A         | Z         | 2.662                        | 2.662              | 0                     | %100               |

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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft,%] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|--------------------|
| 1  | M1           | X         | -.998                        | -.998              | 0                     | %100               |
| 2  | M1           | Z         | 1.729                        | 1.729              | 0                     | %100               |
| 3  | M2           | X         | -.998                        | -.998              | 0                     | %100               |
| 4  | M2           | Z         | 1.729                        | 1.729              | 0                     | %100               |
| 5  | M13          | X         | -.125                        | -.125              | 0                     | %100               |
| 6  | M13          | Z         | .217                         | .217               | 0                     | %100               |
| 7  | M14          | X         | -.125                        | -.125              | 0                     | %100               |
| 8  | M14          | Z         | .217                         | .217               | 0                     | %100               |
| 9  | M15          | X         | -.125                        | -.125              | 0                     | %100               |
| 10 | M15          | Z         | .217                         | .217               | 0                     | %100               |
| 11 | M16          | X         | -.125                        | -.125              | 0                     | %100               |
| 12 | M16          | Z         | .217                         | .217               | 0                     | %100               |
| 13 | OVP          | X         | -.131                        | -.131              | 0                     | %100               |
| 14 | OVP          | Z         | .226                         | .226               | 0                     | %100               |
| 15 | M18          | X         | -.131                        | -.131              | 0                     | %100               |
| 16 | M18          | Z         | .226                         | .226               | 0                     | %100               |



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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 17 | M19          | X         | -.917                        | -.917              | 0                     | %100                |
| 18 | M19          | Z         | 1.588                        | 1.588              | 0                     | %100                |
| 19 | M20          | X         | -.917                        | -.917              | 0                     | %100                |
| 20 | M20          | Z         | 1.588                        | 1.588              | 0                     | %100                |
| 21 | M21          | X         | -.379                        | -.379              | 0                     | %100                |
| 22 | M21          | Z         | .656                         | .656               | 0                     | %100                |
| 23 | M22          | X         | -.379                        | -.379              | 0                     | %100                |
| 24 | M22          | Z         | .656                         | .656               | 0                     | %100                |
| 25 | M23          | X         | -.379                        | -.379              | 0                     | %100                |
| 26 | M23          | Z         | .656                         | .656               | 0                     | %100                |
| 27 | M24          | X         | -.379                        | -.379              | 0                     | %100                |
| 28 | M24          | Z         | .656                         | .656               | 0                     | %100                |
| 29 | M25          | X         | -.517                        | -.517              | 0                     | %100                |
| 30 | M25          | Z         | .896                         | .896               | 0                     | %100                |
| 31 | M26          | X         | -.517                        | -.517              | 0                     | %100                |
| 32 | M26          | Z         | .896                         | .896               | 0                     | %100                |
| 33 | M27          | X         | -.744                        | -.744              | 0                     | %100                |
| 34 | M27          | Z         | 1.289                        | 1.289              | 0                     | %100                |
| 35 | M28          | X         | -.744                        | -.744              | 0                     | %100                |
| 36 | M28          | Z         | 1.289                        | 1.289              | 0                     | %100                |
| 37 | MP3A         | X         | -1.331                       | -1.331             | 0                     | %100                |
| 38 | MP3A         | Z         | 2.306                        | 2.306              | 0                     | %100                |
| 39 | MP2A         | X         | -1.331                       | -1.331             | 0                     | %100                |
| 40 | MP2A         | Z         | 2.306                        | 2.306              | 0                     | %100                |
| 41 | MP1A         | X         | -1.331                       | -1.331             | 0                     | %100                |
| 42 | MP1A         | Z         | 2.306                        | 2.306              | 0                     | %100                |
| 43 | M44          | X         | -.668                        | -.668              | 0                     | %100                |
| 44 | M44          | Z         | 1.157                        | 1.157              | 0                     | %100                |
| 45 | M45          | X         | -.668                        | -.668              | 0                     | %100                |
| 46 | M45          | Z         | 1.157                        | 1.157              | 0                     | %100                |
| 47 | M46          | X         | -.668                        | -.668              | 0                     | %100                |
| 48 | M46          | Z         | 1.157                        | 1.157              | 0                     | %100                |
| 49 | M47          | X         | -.668                        | -.668              | 0                     | %100                |
| 50 | M47          | Z         | 1.157                        | 1.157              | 0                     | %100                |
| 51 | M43          | X         | -.81                         | -.81               | 0                     | %100                |
| 52 | M43          | Z         | 1.403                        | 1.403              | 0                     | %100                |
| 53 | MP4A         | X         | -1.331                       | -1.331             | 0                     | %100                |
| 54 | MP4A         | Z         | 2.306                        | 2.306              | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 1  | M1           | X         | -.576                        | -.576              | 0                     | %100                |
| 2  | M1           | Z         | .333                         | .333               | 0                     | %100                |
| 3  | M2           | X         | -.576                        | -.576              | 0                     | %100                |
| 4  | M2           | Z         | .333                         | .333               | 0                     | %100                |
| 5  | M13          | X         | -.651                        | -.651              | 0                     | %100                |
| 6  | M13          | Z         | .376                         | .376               | 0                     | %100                |
| 7  | M14          | X         | -.651                        | -.651              | 0                     | %100                |
| 8  | M14          | Z         | .376                         | .376               | 0                     | %100                |
| 9  | M15          | X         | -.651                        | -.651              | 0                     | %100                |
| 10 | M15          | Z         | .376                         | .376               | 0                     | %100                |
| 11 | M16          | X         | -.651                        | -.651              | 0                     | %100                |
| 12 | M16          | Z         | .376                         | .376               | 0                     | %100                |
| 13 | OVP          | X         | -.032                        | -.032              | 0                     | %100                |
| 14 | OVP          | Z         | .018                         | .018               | 0                     | %100                |
| 15 | M18          | X         | -.032                        | -.032              | 0                     | %100                |



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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[lb/ft.F,ksf] | Start Location[ft.-%] | End Location[ft.-%] |
|----|--------------|-----------|------------------------------|----------------------------|-----------------------|---------------------|
| 16 | M18          | Z         | .018                         | .018                       | 0                     | %100                |
| 17 | M19          | X         | -1.394                       | -1.394                     | 0                     | %100                |
| 18 | M19          | Z         | .805                         | .805                       | 0                     | %100                |
| 19 | M20          | X         | -1.394                       | -1.394                     | 0                     | %100                |
| 20 | M20          | Z         | .805                         | .805                       | 0                     | %100                |
| 21 | M21          | X         | -.219                        | -.219                      | 0                     | %100                |
| 22 | M21          | Z         | .126                         | .126                       | 0                     | %100                |
| 23 | M22          | X         | -.219                        | -.219                      | 0                     | %100                |
| 24 | M22          | Z         | .126                         | .126                       | 0                     | %100                |
| 25 | M23          | X         | -.219                        | -.219                      | 0                     | %100                |
| 26 | M23          | Z         | .126                         | .126                       | 0                     | %100                |
| 27 | M24          | X         | -.219                        | -.219                      | 0                     | %100                |
| 28 | M24          | Z         | .126                         | .126                       | 0                     | %100                |
| 29 | M25          | X         | -.84                         | -.84                       | 0                     | %100                |
| 30 | M25          | Z         | .485                         | .485                       | 0                     | %100                |
| 31 | M26          | X         | -.84                         | -.84                       | 0                     | %100                |
| 32 | M26          | Z         | .485                         | .485                       | 0                     | %100                |
| 33 | M27          | X         | -1.233                       | -1.233                     | 0                     | %100                |
| 34 | M27          | Z         | .712                         | .712                       | 0                     | %100                |
| 35 | M28          | X         | -1.233                       | -1.233                     | 0                     | %100                |
| 36 | M28          | Z         | .712                         | .712                       | 0                     | %100                |
| 37 | MP3A         | X         | -2.306                       | -2.306                     | 0                     | %100                |
| 38 | MP3A         | Z         | 1.331                        | 1.331                      | 0                     | %100                |
| 39 | MP2A         | X         | -2.306                       | -2.306                     | 0                     | %100                |
| 40 | MP2A         | Z         | 1.331                        | 1.331                      | 0                     | %100                |
| 41 | MP1A         | X         | -2.306                       | -2.306                     | 0                     | %100                |
| 42 | MP1A         | Z         | 1.331                        | 1.331                      | 0                     | %100                |
| 43 | M44          | X         | -1.157                       | -1.157                     | 0                     | %100                |
| 44 | M44          | Z         | .668                         | .668                       | 0                     | %100                |
| 45 | M45          | X         | -1.157                       | -1.157                     | 0                     | %100                |
| 46 | M45          | Z         | .668                         | .668                       | 0                     | %100                |
| 47 | M46          | X         | -1.157                       | -1.157                     | 0                     | %100                |
| 48 | M46          | Z         | .668                         | .668                       | 0                     | %100                |
| 49 | M47          | X         | -1.157                       | -1.157                     | 0                     | %100                |
| 50 | M47          | Z         | .668                         | .668                       | 0                     | %100                |
| 51 | M43          | X         | -2.065                       | -2.065                     | 0                     | %100                |
| 52 | M43          | Z         | 1.192                        | 1.192                      | 0                     | %100                |
| 53 | MP4A         | X         | -2.306                       | -2.306                     | 0                     | %100                |
| 54 | MP4A         | Z         | 1.331                        | 1.331                      | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[lb/ft.F,ksf] | 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         | -1.002                       | -1.002                     | 0                     | %100                |
| 6  | M13          | Z         | 0                            | 0                          | 0                     | %100                |
| 7  | M14          | X         | -1.002                       | -1.002                     | 0                     | %100                |
| 8  | M14          | Z         | 0                            | 0                          | 0                     | %100                |
| 9  | M15          | X         | -1.002                       | -1.002                     | 0                     | %100                |
| 10 | M15          | Z         | 0                            | 0                          | 0                     | %100                |
| 11 | M16          | X         | -1.002                       | -1.002                     | 0                     | %100                |
| 12 | M16          | Z         | 0                            | 0                          | 0                     | %100                |
| 13 | OVP          | X         | -.711                        | -.711                      | 0                     | %100                |
| 14 | OVP          | Z         | 0                            | 0                          | 0                     | %100                |



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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 15 | M18          | X         | -0.711                       | -0.711             | 0                     | %100                |
| 16 | M18          | Z         | 0                            | 0                  | 0                     | %100                |
| 17 | M19          | X         | -0.711                       | -0.711             | 0                     | %100                |
| 18 | M19          | Z         | 0                            | 0                  | 0                     | %100                |
| 19 | M20          | X         | -0.711                       | -0.711             | 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         | -1.164                       | -1.164             | 0                     | %100                |
| 30 | M25          | Z         | 0                            | 0                  | 0                     | %100                |
| 31 | M26          | X         | -1.164                       | -1.164             | 0                     | %100                |
| 32 | M26          | Z         | 0                            | 0                  | 0                     | %100                |
| 33 | M27          | X         | -1.164                       | -1.164             | 0                     | %100                |
| 34 | M27          | Z         | 0                            | 0                  | 0                     | %100                |
| 35 | M28          | X         | -1.164                       | -1.164             | 0                     | %100                |
| 36 | M28          | Z         | 0                            | 0                  | 0                     | %100                |
| 37 | MP3A         | X         | -2.662                       | -2.662             | 0                     | %100                |
| 38 | MP3A         | Z         | 0                            | 0                  | 0                     | %100                |
| 39 | MP2A         | X         | -2.662                       | -2.662             | 0                     | %100                |
| 40 | MP2A         | Z         | 0                            | 0                  | 0                     | %100                |
| 41 | MP1A         | X         | -2.662                       | -2.662             | 0                     | %100                |
| 42 | MP1A         | Z         | 0                            | 0                  | 0                     | %100                |
| 43 | M44          | X         | -1.336                       | -1.336             | 0                     | %100                |
| 44 | M44          | Z         | 0                            | 0                  | 0                     | %100                |
| 45 | M45          | X         | -1.336                       | -1.336             | 0                     | %100                |
| 46 | M45          | Z         | 0                            | 0                  | 0                     | %100                |
| 47 | M46          | X         | -1.336                       | -1.336             | 0                     | %100                |
| 48 | M46          | Z         | 0                            | 0                  | 0                     | %100                |
| 49 | M47          | X         | -1.336                       | -1.336             | 0                     | %100                |
| 50 | M47          | Z         | 0                            | 0                  | 0                     | %100                |
| 51 | M43          | X         | -1.964                       | -1.964             | 0                     | %100                |
| 52 | M43          | Z         | 0                            | 0                  | 0                     | %100                |
| 53 | MP4A         | X         | -2.662                       | -2.662             | 0                     | %100                |
| 54 | MP4A         | Z         | 0                            | 0                  | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 1  | M1           | X         | -0.576                       | -0.576             | 0                     | %100                |
| 2  | M1           | Z         | -0.333                       | -0.333             | 0                     | %100                |
| 3  | M2           | X         | -0.576                       | -0.576             | 0                     | %100                |
| 4  | M2           | Z         | -0.333                       | -0.333             | 0                     | %100                |
| 5  | M13          | X         | -0.651                       | -0.651             | 0                     | %100                |
| 6  | M13          | Z         | -0.376                       | -0.376             | 0                     | %100                |
| 7  | M14          | X         | -0.651                       | -0.651             | 0                     | %100                |
| 8  | M14          | Z         | -0.376                       | -0.376             | 0                     | %100                |
| 9  | M15          | X         | -0.651                       | -0.651             | 0                     | %100                |
| 10 | M15          | Z         | -0.376                       | -0.376             | 0                     | %100                |
| 11 | M16          | X         | -0.651                       | -0.651             | 0                     | %100                |
| 12 | M16          | Z         | -0.376                       | -0.376             | 0                     | %100                |
| 13 | OVP          | X         | -1.394                       | -1.394             | 0                     | %100                |



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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft,%] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|--------------------|
| 14 | OVP          | Z         | -805                         | -805               | 0                     | %100               |
| 15 | M18          | X         | -1.394                       | -1.394             | 0                     | %100               |
| 16 | M18          | Z         | -805                         | -805               | 0                     | %100               |
| 17 | M19          | X         | -.032                        | -.032              | 0                     | %100               |
| 18 | M19          | Z         | -.018                        | -.018              | 0                     | %100               |
| 19 | M20          | X         | -.032                        | -.032              | 0                     | %100               |
| 20 | M20          | Z         | -.018                        | -.018              | 0                     | %100               |
| 21 | M21          | X         | -.219                        | -.219              | 0                     | %100               |
| 22 | M21          | Z         | -.126                        | -.126              | 0                     | %100               |
| 23 | M22          | X         | -.219                        | -.219              | 0                     | %100               |
| 24 | M22          | Z         | -.126                        | -.126              | 0                     | %100               |
| 25 | M23          | X         | -.219                        | -.219              | 0                     | %100               |
| 26 | M23          | Z         | -.126                        | -.126              | 0                     | %100               |
| 27 | M24          | X         | -.219                        | -.219              | 0                     | %100               |
| 28 | M24          | Z         | -.126                        | -.126              | 0                     | %100               |
| 29 | M25          | X         | -1.233                       | -1.233             | 0                     | %100               |
| 30 | M25          | Z         | -.712                        | -.712              | 0                     | %100               |
| 31 | M26          | X         | -1.233                       | -1.233             | 0                     | %100               |
| 32 | M26          | Z         | -.712                        | -.712              | 0                     | %100               |
| 33 | M27          | X         | -.84                         | -.84               | 0                     | %100               |
| 34 | M27          | Z         | -.485                        | -.485              | 0                     | %100               |
| 35 | M28          | X         | -.84                         | -.84               | 0                     | %100               |
| 36 | M28          | Z         | -.485                        | -.485              | 0                     | %100               |
| 37 | MP3A         | X         | -2.306                       | -2.306             | 0                     | %100               |
| 38 | MP3A         | Z         | -1.331                       | -1.331             | 0                     | %100               |
| 39 | MP2A         | X         | -2.306                       | -2.306             | 0                     | %100               |
| 40 | MP2A         | Z         | -1.331                       | -1.331             | 0                     | %100               |
| 41 | MP1A         | X         | -2.306                       | -2.306             | 0                     | %100               |
| 42 | MP1A         | Z         | -1.331                       | -1.331             | 0                     | %100               |
| 43 | M44          | X         | -1.157                       | -1.157             | 0                     | %100               |
| 44 | M44          | Z         | -.668                        | -.668              | 0                     | %100               |
| 45 | M45          | X         | -1.157                       | -1.157             | 0                     | %100               |
| 46 | M45          | Z         | -.668                        | -.668              | 0                     | %100               |
| 47 | M46          | X         | -1.157                       | -1.157             | 0                     | %100               |
| 48 | M46          | Z         | -.668                        | -.668              | 0                     | %100               |
| 49 | M47          | X         | -1.157                       | -1.157             | 0                     | %100               |
| 50 | M47          | Z         | -.668                        | -.668              | 0                     | %100               |
| 51 | M43          | X         | -.676                        | -.676              | 0                     | %100               |
| 52 | M43          | Z         | -.39                         | -.39               | 0                     | %100               |
| 53 | MP4A         | X         | -2.306                       | -2.306             | 0                     | %100               |
| 54 | MP4A         | Z         | -1.331                       | -1.331             | 0                     | %100               |

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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft,%] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|--------------------|
| 1  | M1           | X         | -.998                        | -.998              | 0                     | %100               |
| 2  | M1           | Z         | -1.729                       | -1.729             | 0                     | %100               |
| 3  | M2           | X         | -.998                        | -.998              | 0                     | %100               |
| 4  | M2           | Z         | -1.729                       | -1.729             | 0                     | %100               |
| 5  | M13          | X         | -.125                        | -.125              | 0                     | %100               |
| 6  | M13          | Z         | -.217                        | -.217              | 0                     | %100               |
| 7  | M14          | X         | -.125                        | -.125              | 0                     | %100               |
| 8  | M14          | Z         | -.217                        | -.217              | 0                     | %100               |
| 9  | M15          | X         | -.125                        | -.125              | 0                     | %100               |
| 10 | M15          | Z         | -.217                        | -.217              | 0                     | %100               |
| 11 | M16          | X         | -.125                        | -.125              | 0                     | %100               |
| 12 | M16          | Z         | -.217                        | -.217              | 0                     | %100               |



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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 13 | OVP          | X         | -917                         | -917               | 0                     | %100                |
| 14 | OVP          | Z         | -1.588                       | -1.588             | 0                     | %100                |
| 15 | M18          | X         | -917                         | -917               | 0                     | %100                |
| 16 | M18          | Z         | -1.588                       | -1.588             | 0                     | %100                |
| 17 | M19          | X         | -.131                        | -.131              | 0                     | %100                |
| 18 | M19          | Z         | -.226                        | -.226              | 0                     | %100                |
| 19 | M20          | X         | -.131                        | -.131              | 0                     | %100                |
| 20 | M20          | Z         | -.226                        | -.226              | 0                     | %100                |
| 21 | M21          | X         | -.379                        | -.379              | 0                     | %100                |
| 22 | M21          | Z         | -.656                        | -.656              | 0                     | %100                |
| 23 | M22          | X         | -.379                        | -.379              | 0                     | %100                |
| 24 | M22          | Z         | -.656                        | -.656              | 0                     | %100                |
| 25 | M23          | X         | -.379                        | -.379              | 0                     | %100                |
| 26 | M23          | Z         | -.656                        | -.656              | 0                     | %100                |
| 27 | M24          | X         | -.379                        | -.379              | 0                     | %100                |
| 28 | M24          | Z         | -.656                        | -.656              | 0                     | %100                |
| 29 | M25          | X         | -.744                        | -.744              | 0                     | %100                |
| 30 | M25          | Z         | -1.289                       | -1.289             | 0                     | %100                |
| 31 | M26          | X         | -.744                        | -.744              | 0                     | %100                |
| 32 | M26          | Z         | -1.289                       | -1.289             | 0                     | %100                |
| 33 | M27          | X         | -.517                        | -.517              | 0                     | %100                |
| 34 | M27          | Z         | -.896                        | -.896              | 0                     | %100                |
| 35 | M28          | X         | -.517                        | -.517              | 0                     | %100                |
| 36 | M28          | Z         | -.896                        | -.896              | 0                     | %100                |
| 37 | MP3A         | X         | -1.331                       | -1.331             | 0                     | %100                |
| 38 | MP3A         | Z         | -2.306                       | -2.306             | 0                     | %100                |
| 39 | MP2A         | X         | -1.331                       | -1.331             | 0                     | %100                |
| 40 | MP2A         | Z         | -2.306                       | -2.306             | 0                     | %100                |
| 41 | MP1A         | X         | -1.331                       | -1.331             | 0                     | %100                |
| 42 | MP1A         | Z         | -2.306                       | -2.306             | 0                     | %100                |
| 43 | M44          | X         | -.668                        | -.668              | 0                     | %100                |
| 44 | M44          | Z         | -1.157                       | -1.157             | 0                     | %100                |
| 45 | M45          | X         | -.668                        | -.668              | 0                     | %100                |
| 46 | M45          | Z         | -1.157                       | -1.157             | 0                     | %100                |
| 47 | M46          | X         | -.668                        | -.668              | 0                     | %100                |
| 48 | M46          | Z         | -1.157                       | -1.157             | 0                     | %100                |
| 49 | M47          | X         | -.668                        | -.668              | 0                     | %100                |
| 50 | M47          | Z         | -1.157                       | -1.157             | 0                     | %100                |
| 51 | M43          | X         | -.008                        | -.008              | 0                     | %100                |
| 52 | M43          | Z         | -.014                        | -.014              | 0                     | %100                |
| 53 | MP4A         | X         | -1.331                       | -1.331             | 0                     | %100                |
| 54 | MP4A         | Z         | -2.306                       | -2.306             | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 1  | M1           | X         | 0                            | 0                  | 0                     | %100                |
| 2  | M1           | Z         | -.542                        | -.542              | 0                     | %100                |
| 3  | M2           | X         | 0                            | 0                  | 0                     | %100                |
| 4  | M2           | Z         | -.542                        | -.542              | 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                |





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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft,%] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|--------------------|
| 12 | M16          | Z         | 0                            | 0                  | 0                     | %100               |
| 13 | OVP          | X         | 0                            | 0                  | 0                     | %100               |
| 14 | OVP          | Z         | -.214                        | -.214              | 0                     | %100               |
| 15 | M18          | X         | 0                            | 0                  | 0                     | %100               |
| 16 | M18          | Z         | -.214                        | -.214              | 0                     | %100               |
| 17 | M19          | X         | 0                            | 0                  | 0                     | %100               |
| 18 | M19          | Z         | -.214                        | -.214              | 0                     | %100               |
| 19 | M20          | X         | 0                            | 0                  | 0                     | %100               |
| 20 | M20          | Z         | -.214                        | -.214              | 0                     | %100               |
| 21 | M21          | X         | 0                            | 0                  | 0                     | %100               |
| 22 | M21          | Z         | -.118                        | -.118              | 0                     | %100               |
| 23 | M22          | X         | 0                            | 0                  | 0                     | %100               |
| 24 | M22          | Z         | -.118                        | -.118              | 0                     | %100               |
| 25 | M23          | X         | 0                            | 0                  | 0                     | %100               |
| 26 | M23          | Z         | -.118                        | -.118              | 0                     | %100               |
| 27 | M24          | X         | 0                            | 0                  | 0                     | %100               |
| 28 | M24          | Z         | -.118                        | -.118              | 0                     | %100               |
| 29 | M25          | X         | 0                            | 0                  | 0                     | %100               |
| 30 | M25          | Z         | -.122                        | -.122              | 0                     | %100               |
| 31 | M26          | X         | 0                            | 0                  | 0                     | %100               |
| 32 | M26          | Z         | -.122                        | -.122              | 0                     | %100               |
| 33 | M27          | X         | 0                            | 0                  | 0                     | %100               |
| 34 | M27          | Z         | -.122                        | -.122              | 0                     | %100               |
| 35 | M28          | X         | 0                            | 0                  | 0                     | %100               |
| 36 | M28          | Z         | -.122                        | -.122              | 0                     | %100               |
| 37 | MP3A         | X         | 0                            | 0                  | 0                     | %100               |
| 38 | MP3A         | Z         | -.542                        | -.542              | 0                     | %100               |
| 39 | MP2A         | X         | 0                            | 0                  | 0                     | %100               |
| 40 | MP2A         | Z         | -.542                        | -.542              | 0                     | %100               |
| 41 | MP1A         | X         | 0                            | 0                  | 0                     | %100               |
| 42 | MP1A         | Z         | -.542                        | -.542              | 0                     | %100               |
| 43 | M44          | X         | 0                            | 0                  | 0                     | %100               |
| 44 | M44          | Z         | -.118                        | -.118              | 0                     | %100               |
| 45 | M45          | X         | 0                            | 0                  | 0                     | %100               |
| 46 | M45          | Z         | -.118                        | -.118              | 0                     | %100               |
| 47 | M46          | X         | 0                            | 0                  | 0                     | %100               |
| 48 | M46          | Z         | -.118                        | -.118              | 0                     | %100               |
| 49 | M47          | X         | 0                            | 0                  | 0                     | %100               |
| 50 | M47          | Z         | -.118                        | -.118              | 0                     | %100               |
| 51 | M43          | X         | 0                            | 0                  | 0                     | %100               |
| 52 | M43          | Z         | -.081                        | -.081              | 0                     | %100               |
| 53 | MP4A         | X         | 0                            | 0                  | 0                     | %100               |
| 54 | MP4A         | Z         | -.542                        | -.542              | 0                     | %100               |

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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft,%] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|--------------------|
| 1  | M1           | X         | .203                         | .203               | 0                     | %100               |
| 2  | M1           | Z         | -.352                        | -.352              | 0                     | %100               |
| 3  | M2           | X         | .203                         | .203               | 0                     | %100               |
| 4  | M2           | Z         | -.352                        | -.352              | 0                     | %100               |
| 5  | M13          | X         | .015                         | .015               | 0                     | %100               |
| 6  | M13          | Z         | -.025                        | -.025              | 0                     | %100               |
| 7  | M14          | X         | .015                         | .015               | 0                     | %100               |
| 8  | M14          | Z         | -.025                        | -.025              | 0                     | %100               |
| 9  | M15          | X         | .015                         | .015               | 0                     | %100               |
| 10 | M15          | Z         | -.025                        | -.025              | 0                     | %100               |



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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 11 | M16          | X         | .015                         | .015               | 0                     | %100                |
| 12 | M16          | Z         | -.025                        | -.025              | 0                     | %100                |
| 13 | OVP          | X         | .024                         | .024               | 0                     | %100                |
| 14 | OVP          | Z         | -.042                        | -.042              | 0                     | %100                |
| 15 | M18          | X         | .024                         | .024               | 0                     | %100                |
| 16 | M18          | Z         | -.042                        | -.042              | 0                     | %100                |
| 17 | M19          | X         | .169                         | .169               | 0                     | %100                |
| 18 | M19          | Z         | -.293                        | -.293              | 0                     | %100                |
| 19 | M20          | X         | .169                         | .169               | 0                     | %100                |
| 20 | M20          | Z         | -.293                        | -.293              | 0                     | %100                |
| 21 | M21          | X         | .044                         | .044               | 0                     | %100                |
| 22 | M21          | Z         | -.076                        | -.076              | 0                     | %100                |
| 23 | M22          | X         | .044                         | .044               | 0                     | %100                |
| 24 | M22          | Z         | -.076                        | -.076              | 0                     | %100                |
| 25 | M23          | X         | .044                         | .044               | 0                     | %100                |
| 26 | M23          | Z         | -.076                        | -.076              | 0                     | %100                |
| 27 | M24          | X         | .044                         | .044               | 0                     | %100                |
| 28 | M24          | Z         | -.076                        | -.076              | 0                     | %100                |
| 29 | M25          | X         | .049                         | .049               | 0                     | %100                |
| 30 | M25          | Z         | -.084                        | -.084              | 0                     | %100                |
| 31 | M26          | X         | .049                         | .049               | 0                     | %100                |
| 32 | M26          | Z         | -.084                        | -.084              | 0                     | %100                |
| 33 | M27          | X         | .07                          | .07                | 0                     | %100                |
| 34 | M27          | Z         | -.122                        | -.122              | 0                     | %100                |
| 35 | M28          | X         | .07                          | .07                | 0                     | %100                |
| 36 | M28          | Z         | -.122                        | -.122              | 0                     | %100                |
| 37 | MP3A         | X         | .271                         | .271               | 0                     | %100                |
| 38 | MP3A         | Z         | -.469                        | -.469              | 0                     | %100                |
| 39 | MP2A         | X         | .271                         | .271               | 0                     | %100                |
| 40 | MP2A         | Z         | -.469                        | -.469              | 0                     | %100                |
| 41 | MP1A         | X         | .271                         | .271               | 0                     | %100                |
| 42 | MP1A         | Z         | -.469                        | -.469              | 0                     | %100                |
| 43 | M44          | X         | .059                         | .059               | 0                     | %100                |
| 44 | M44          | Z         | -.102                        | -.102              | 0                     | %100                |
| 45 | M45          | X         | .059                         | .059               | 0                     | %100                |
| 46 | M45          | Z         | -.102                        | -.102              | 0                     | %100                |
| 47 | M46          | X         | .059                         | .059               | 0                     | %100                |
| 48 | M46          | Z         | -.102                        | -.102              | 0                     | %100                |
| 49 | M47          | X         | .059                         | .059               | 0                     | %100                |
| 50 | M47          | Z         | -.102                        | -.102              | 0                     | %100                |
| 51 | M43          | X         | .151                         | .151               | 0                     | %100                |
| 52 | M43          | Z         | -.262                        | -.262              | 0                     | %100                |
| 53 | MP4A         | X         | .271                         | .271               | 0                     | %100                |
| 54 | MP4A         | Z         | -.469                        | -.469              | 0                     | %100                |

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

|   | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|---|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 1 | M1           | X         | .117                         | .117               | 0                     | %100                |
| 2 | M1           | Z         | -.068                        | -.068              | 0                     | %100                |
| 3 | M2           | X         | .117                         | .117               | 0                     | %100                |
| 4 | M2           | Z         | -.068                        | -.068              | 0                     | %100                |
| 5 | M13          | X         | .076                         | .076               | 0                     | %100                |
| 6 | M13          | Z         | -.044                        | -.044              | 0                     | %100                |
| 7 | M14          | X         | .076                         | .076               | 0                     | %100                |
| 8 | M14          | Z         | -.044                        | -.044              | 0                     | %100                |
| 9 | M15          | X         | .076                         | .076               | 0                     | %100                |



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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 10 | M15          | Z         | -.044                        | -.044              | 0                     | %100                |
| 11 | M16          | X         | .076                         | .076               | 0                     | %100                |
| 12 | M16          | Z         | -.044                        | -.044              | 0                     | %100                |
| 13 | OVP          | X         | .006                         | .006               | 0                     | %100                |
| 14 | OVP          | Z         | -.003                        | -.003              | 0                     | %100                |
| 15 | M18          | X         | .006                         | .006               | 0                     | %100                |
| 16 | M18          | Z         | -.003                        | -.003              | 0                     | %100                |
| 17 | M19          | X         | .257                         | .257               | 0                     | %100                |
| 18 | M19          | Z         | -.148                        | -.148              | 0                     | %100                |
| 19 | M20          | X         | .257                         | .257               | 0                     | %100                |
| 20 | M20          | Z         | -.148                        | -.148              | 0                     | %100                |
| 21 | M21          | X         | .025                         | .025               | 0                     | %100                |
| 22 | M21          | Z         | -.015                        | -.015              | 0                     | %100                |
| 23 | M22          | X         | .025                         | .025               | 0                     | %100                |
| 24 | M22          | Z         | -.015                        | -.015              | 0                     | %100                |
| 25 | M23          | X         | .025                         | .025               | 0                     | %100                |
| 26 | M23          | Z         | -.015                        | -.015              | 0                     | %100                |
| 27 | M24          | X         | .025                         | .025               | 0                     | %100                |
| 28 | M24          | Z         | -.015                        | -.015              | 0                     | %100                |
| 29 | M25          | X         | .079                         | .079               | 0                     | %100                |
| 30 | M25          | Z         | -.046                        | -.046              | 0                     | %100                |
| 31 | M26          | X         | .079                         | .079               | 0                     | %100                |
| 32 | M26          | Z         | -.046                        | -.046              | 0                     | %100                |
| 33 | M27          | X         | .116                         | .116               | 0                     | %100                |
| 34 | M27          | Z         | -.067                        | -.067              | 0                     | %100                |
| 35 | M28          | X         | .116                         | .116               | 0                     | %100                |
| 36 | M28          | Z         | -.067                        | -.067              | 0                     | %100                |
| 37 | MP3A         | X         | .469                         | .469               | 0                     | %100                |
| 38 | MP3A         | Z         | -.271                        | -.271              | 0                     | %100                |
| 39 | MP2A         | X         | .469                         | .469               | 0                     | %100                |
| 40 | MP2A         | Z         | -.271                        | -.271              | 0                     | %100                |
| 41 | MP1A         | X         | .469                         | .469               | 0                     | %100                |
| 42 | MP1A         | Z         | -.271                        | -.271              | 0                     | %100                |
| 43 | M44          | X         | .102                         | .102               | 0                     | %100                |
| 44 | M44          | Z         | -.059                        | -.059              | 0                     | %100                |
| 45 | M45          | X         | .102                         | .102               | 0                     | %100                |
| 46 | M45          | Z         | -.059                        | -.059              | 0                     | %100                |
| 47 | M46          | X         | .102                         | .102               | 0                     | %100                |
| 48 | M46          | Z         | -.059                        | -.059              | 0                     | %100                |
| 49 | M47          | X         | .102                         | .102               | 0                     | %100                |
| 50 | M47          | Z         | -.059                        | -.059              | 0                     | %100                |
| 51 | M43          | X         | .385                         | .385               | 0                     | %100                |
| 52 | M43          | Z         | -.222                        | -.222              | 0                     | %100                |
| 53 | MP4A         | X         | .469                         | .469               | 0                     | %100                |
| 54 | MP4A         | Z         | -.271                        | -.271              | 0                     | %100                |

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

|   | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | 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         | .118                         | .118               | 0                     | %100                |
| 6 | M13          | Z         | 0                            | 0                  | 0                     | %100                |
| 7 | M14          | X         | .118                         | .118               | 0                     | %100                |
| 8 | M14          | Z         | 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.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 9  | M15          | X         | .118                         | .118               | 0                     | %100                |
| 10 | M15          | Z         | 0                            | 0                  | 0                     | %100                |
| 11 | M16          | X         | .118                         | .118               | 0                     | %100                |
| 12 | M16          | Z         | 0                            | 0                  | 0                     | %100                |
| 13 | OVP          | X         | .131                         | .131               | 0                     | %100                |
| 14 | OVP          | Z         | 0                            | 0                  | 0                     | %100                |
| 15 | M18          | X         | .131                         | .131               | 0                     | %100                |
| 16 | M18          | Z         | 0                            | 0                  | 0                     | %100                |
| 17 | M19          | X         | .131                         | .131               | 0                     | %100                |
| 18 | M19          | Z         | 0                            | 0                  | 0                     | %100                |
| 19 | M20          | X         | .131                         | .131               | 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         | .11                          | .11                | 0                     | %100                |
| 30 | M25          | Z         | 0                            | 0                  | 0                     | %100                |
| 31 | M26          | X         | .11                          | .11                | 0                     | %100                |
| 32 | M26          | Z         | 0                            | 0                  | 0                     | %100                |
| 33 | M27          | X         | .11                          | .11                | 0                     | %100                |
| 34 | M27          | Z         | 0                            | 0                  | 0                     | %100                |
| 35 | M28          | X         | .11                          | .11                | 0                     | %100                |
| 36 | M28          | Z         | 0                            | 0                  | 0                     | %100                |
| 37 | MP3A         | X         | .542                         | .542               | 0                     | %100                |
| 38 | MP3A         | Z         | 0                            | 0                  | 0                     | %100                |
| 39 | MP2A         | X         | .542                         | .542               | 0                     | %100                |
| 40 | MP2A         | Z         | 0                            | 0                  | 0                     | %100                |
| 41 | MP1A         | X         | .542                         | .542               | 0                     | %100                |
| 42 | MP1A         | Z         | 0                            | 0                  | 0                     | %100                |
| 43 | M44          | X         | .118                         | .118               | 0                     | %100                |
| 44 | M44          | Z         | 0                            | 0                  | 0                     | %100                |
| 45 | M45          | X         | .118                         | .118               | 0                     | %100                |
| 46 | M45          | Z         | 0                            | 0                  | 0                     | %100                |
| 47 | M46          | X         | .118                         | .118               | 0                     | %100                |
| 48 | M46          | Z         | 0                            | 0                  | 0                     | %100                |
| 49 | M47          | X         | .118                         | .118               | 0                     | %100                |
| 50 | M47          | Z         | 0                            | 0                  | 0                     | %100                |
| 51 | M43          | X         | .366                         | .366               | 0                     | %100                |
| 52 | M43          | Z         | 0                            | 0                  | 0                     | %100                |
| 53 | MP4A         | X         | .542                         | .542               | 0                     | %100                |
| 54 | MP4A         | Z         | 0                            | 0                  | 0                     | %100                |

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

|   | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|---|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 1 | M1           | X         | .117                         | .117               | 0                     | %100                |
| 2 | M1           | Z         | .068                         | .068               | 0                     | %100                |
| 3 | M2           | X         | .117                         | .117               | 0                     | %100                |
| 4 | M2           | Z         | .068                         | .068               | 0                     | %100                |
| 5 | M13          | X         | .076                         | .076               | 0                     | %100                |
| 6 | M13          | Z         | .044                         | .044               | 0                     | %100                |
| 7 | M14          | X         | .076                         | .076               | 0                     | %100                |



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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[lb/ft.F,ksf] | Start Location[ft.-%] | End Location[ft.-%] |
|----|--------------|-----------|------------------------------|----------------------------|-----------------------|---------------------|
| 8  | M14          | Z         | .044                         | .044                       | 0                     | %100                |
| 9  | M15          | X         | .076                         | .076                       | 0                     | %100                |
| 10 | M15          | Z         | .044                         | .044                       | 0                     | %100                |
| 11 | M16          | X         | .076                         | .076                       | 0                     | %100                |
| 12 | M16          | Z         | .044                         | .044                       | 0                     | %100                |
| 13 | OVP          | X         | .257                         | .257                       | 0                     | %100                |
| 14 | OVP          | Z         | .148                         | .148                       | 0                     | %100                |
| 15 | M18          | X         | .257                         | .257                       | 0                     | %100                |
| 16 | M18          | Z         | .148                         | .148                       | 0                     | %100                |
| 17 | M19          | X         | .006                         | .006                       | 0                     | %100                |
| 18 | M19          | Z         | .003                         | .003                       | 0                     | %100                |
| 19 | M20          | X         | .006                         | .006                       | 0                     | %100                |
| 20 | M20          | Z         | .003                         | .003                       | 0                     | %100                |
| 21 | M21          | X         | .025                         | .025                       | 0                     | %100                |
| 22 | M21          | Z         | .015                         | .015                       | 0                     | %100                |
| 23 | M22          | X         | .025                         | .025                       | 0                     | %100                |
| 24 | M22          | Z         | .015                         | .015                       | 0                     | %100                |
| 25 | M23          | X         | .025                         | .025                       | 0                     | %100                |
| 26 | M23          | Z         | .015                         | .015                       | 0                     | %100                |
| 27 | M24          | X         | .025                         | .025                       | 0                     | %100                |
| 28 | M24          | Z         | .015                         | .015                       | 0                     | %100                |
| 29 | M25          | X         | .116                         | .116                       | 0                     | %100                |
| 30 | M25          | Z         | .067                         | .067                       | 0                     | %100                |
| 31 | M26          | X         | .116                         | .116                       | 0                     | %100                |
| 32 | M26          | Z         | .067                         | .067                       | 0                     | %100                |
| 33 | M27          | X         | .079                         | .079                       | 0                     | %100                |
| 34 | M27          | Z         | .046                         | .046                       | 0                     | %100                |
| 35 | M28          | X         | .079                         | .079                       | 0                     | %100                |
| 36 | M28          | Z         | .046                         | .046                       | 0                     | %100                |
| 37 | MP3A         | X         | .469                         | .469                       | 0                     | %100                |
| 38 | MP3A         | Z         | .271                         | .271                       | 0                     | %100                |
| 39 | MP2A         | X         | .469                         | .469                       | 0                     | %100                |
| 40 | MP2A         | Z         | .271                         | .271                       | 0                     | %100                |
| 41 | MP1A         | X         | .469                         | .469                       | 0                     | %100                |
| 42 | MP1A         | Z         | .271                         | .271                       | 0                     | %100                |
| 43 | M44          | X         | .102                         | .102                       | 0                     | %100                |
| 44 | M44          | Z         | .059                         | .059                       | 0                     | %100                |
| 45 | M45          | X         | .102                         | .102                       | 0                     | %100                |
| 46 | M45          | Z         | .059                         | .059                       | 0                     | %100                |
| 47 | M46          | X         | .102                         | .102                       | 0                     | %100                |
| 48 | M46          | Z         | .059                         | .059                       | 0                     | %100                |
| 49 | M47          | X         | .102                         | .102                       | 0                     | %100                |
| 50 | M47          | Z         | .059                         | .059                       | 0                     | %100                |
| 51 | M43          | X         | .126                         | .126                       | 0                     | %100                |
| 52 | M43          | Z         | .073                         | .073                       | 0                     | %100                |
| 53 | MP4A         | X         | .469                         | .469                       | 0                     | %100                |
| 54 | MP4A         | Z         | .271                         | .271                       | 0                     | %100                |

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

|   | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[lb/ft.F,ksf] | Start Location[ft.-%] | End Location[ft.-%] |
|---|--------------|-----------|------------------------------|----------------------------|-----------------------|---------------------|
| 1 | M1           | X         | .203                         | .203                       | 0                     | %100                |
| 2 | M1           | Z         | .352                         | .352                       | 0                     | %100                |
| 3 | M2           | X         | .203                         | .203                       | 0                     | %100                |
| 4 | M2           | Z         | .352                         | .352                       | 0                     | %100                |
| 5 | M13          | X         | .015                         | .015                       | 0                     | %100                |
| 6 | M13          | Z         | .025                         | .025                       | 0                     | %100                |



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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 7  | M14          | X         | .015                         | .015               | 0                     | %100                |
| 8  | M14          | Z         | .025                         | .025               | 0                     | %100                |
| 9  | M15          | X         | .015                         | .015               | 0                     | %100                |
| 10 | M15          | Z         | .025                         | .025               | 0                     | %100                |
| 11 | M16          | X         | .015                         | .015               | 0                     | %100                |
| 12 | M16          | Z         | .025                         | .025               | 0                     | %100                |
| 13 | OVP          | X         | .169                         | .169               | 0                     | %100                |
| 14 | OVP          | Z         | .293                         | .293               | 0                     | %100                |
| 15 | M18          | X         | .169                         | .169               | 0                     | %100                |
| 16 | M18          | Z         | .293                         | .293               | 0                     | %100                |
| 17 | M19          | X         | .024                         | .024               | 0                     | %100                |
| 18 | M19          | Z         | .042                         | .042               | 0                     | %100                |
| 19 | M20          | X         | .024                         | .024               | 0                     | %100                |
| 20 | M20          | Z         | .042                         | .042               | 0                     | %100                |
| 21 | M21          | X         | .044                         | .044               | 0                     | %100                |
| 22 | M21          | Z         | .076                         | .076               | 0                     | %100                |
| 23 | M22          | X         | .044                         | .044               | 0                     | %100                |
| 24 | M22          | Z         | .076                         | .076               | 0                     | %100                |
| 25 | M23          | X         | .044                         | .044               | 0                     | %100                |
| 26 | M23          | Z         | .076                         | .076               | 0                     | %100                |
| 27 | M24          | X         | .044                         | .044               | 0                     | %100                |
| 28 | M24          | Z         | .076                         | .076               | 0                     | %100                |
| 29 | M25          | X         | .07                          | .07                | 0                     | %100                |
| 30 | M25          | Z         | .122                         | .122               | 0                     | %100                |
| 31 | M26          | X         | .07                          | .07                | 0                     | %100                |
| 32 | M26          | Z         | .122                         | .122               | 0                     | %100                |
| 33 | M27          | X         | .049                         | .049               | 0                     | %100                |
| 34 | M27          | Z         | .084                         | .084               | 0                     | %100                |
| 35 | M28          | X         | .049                         | .049               | 0                     | %100                |
| 36 | M28          | Z         | .084                         | .084               | 0                     | %100                |
| 37 | MP3A         | X         | .271                         | .271               | 0                     | %100                |
| 38 | MP3A         | Z         | .469                         | .469               | 0                     | %100                |
| 39 | MP2A         | X         | .271                         | .271               | 0                     | %100                |
| 40 | MP2A         | Z         | .469                         | .469               | 0                     | %100                |
| 41 | MP1A         | X         | .271                         | .271               | 0                     | %100                |
| 42 | MP1A         | Z         | .469                         | .469               | 0                     | %100                |
| 43 | M44          | X         | .059                         | .059               | 0                     | %100                |
| 44 | M44          | Z         | .102                         | .102               | 0                     | %100                |
| 45 | M45          | X         | .059                         | .059               | 0                     | %100                |
| 46 | M45          | Z         | .102                         | .102               | 0                     | %100                |
| 47 | M46          | X         | .059                         | .059               | 0                     | %100                |
| 48 | M46          | Z         | .102                         | .102               | 0                     | %100                |
| 49 | M47          | X         | .059                         | .059               | 0                     | %100                |
| 50 | M47          | Z         | .102                         | .102               | 0                     | %100                |
| 51 | M43          | X         | .002                         | .002               | 0                     | %100                |
| 52 | M43          | Z         | .003                         | .003               | 0                     | %100                |
| 53 | MP4A         | X         | .271                         | .271               | 0                     | %100                |
| 54 | MP4A         | Z         | .469                         | .469               | 0                     | %100                |

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

|   | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|---|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 1 | M1           | X         | 0                            | 0                  | 0                     | %100                |
| 2 | M1           | Z         | .542                         | .542               | 0                     | %100                |
| 3 | M2           | X         | 0                            | 0                  | 0                     | %100                |
| 4 | M2           | Z         | .542                         | .542               | 0                     | %100                |
| 5 | M13          | 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.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft,%] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|--------------------|
| 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 | OVP          | X         | 0                            | 0                  | 0                     | %100               |
| 14 | OVP          | Z         | .214                         | .214               | 0                     | %100               |
| 15 | M18          | X         | 0                            | 0                  | 0                     | %100               |
| 16 | M18          | Z         | .214                         | .214               | 0                     | %100               |
| 17 | M19          | X         | 0                            | 0                  | 0                     | %100               |
| 18 | M19          | Z         | .214                         | .214               | 0                     | %100               |
| 19 | M20          | X         | 0                            | 0                  | 0                     | %100               |
| 20 | M20          | Z         | .214                         | .214               | 0                     | %100               |
| 21 | M21          | X         | 0                            | 0                  | 0                     | %100               |
| 22 | M21          | Z         | .118                         | .118               | 0                     | %100               |
| 23 | M22          | X         | 0                            | 0                  | 0                     | %100               |
| 24 | M22          | Z         | .118                         | .118               | 0                     | %100               |
| 25 | M23          | X         | 0                            | 0                  | 0                     | %100               |
| 26 | M23          | Z         | .118                         | .118               | 0                     | %100               |
| 27 | M24          | X         | 0                            | 0                  | 0                     | %100               |
| 28 | M24          | Z         | .118                         | .118               | 0                     | %100               |
| 29 | M25          | X         | 0                            | 0                  | 0                     | %100               |
| 30 | M25          | Z         | .122                         | .122               | 0                     | %100               |
| 31 | M26          | X         | 0                            | 0                  | 0                     | %100               |
| 32 | M26          | Z         | .122                         | .122               | 0                     | %100               |
| 33 | M27          | X         | 0                            | 0                  | 0                     | %100               |
| 34 | M27          | Z         | .122                         | .122               | 0                     | %100               |
| 35 | M28          | X         | 0                            | 0                  | 0                     | %100               |
| 36 | M28          | Z         | .122                         | .122               | 0                     | %100               |
| 37 | MP3A         | X         | 0                            | 0                  | 0                     | %100               |
| 38 | MP3A         | Z         | .542                         | .542               | 0                     | %100               |
| 39 | MP2A         | X         | 0                            | 0                  | 0                     | %100               |
| 40 | MP2A         | Z         | .542                         | .542               | 0                     | %100               |
| 41 | MP1A         | X         | 0                            | 0                  | 0                     | %100               |
| 42 | MP1A         | Z         | .542                         | .542               | 0                     | %100               |
| 43 | M44          | X         | 0                            | 0                  | 0                     | %100               |
| 44 | M44          | Z         | .118                         | .118               | 0                     | %100               |
| 45 | M45          | X         | 0                            | 0                  | 0                     | %100               |
| 46 | M45          | Z         | .118                         | .118               | 0                     | %100               |
| 47 | M46          | X         | 0                            | 0                  | 0                     | %100               |
| 48 | M46          | Z         | .118                         | .118               | 0                     | %100               |
| 49 | M47          | X         | 0                            | 0                  | 0                     | %100               |
| 50 | M47          | Z         | .118                         | .118               | 0                     | %100               |
| 51 | M43          | X         | 0                            | 0                  | 0                     | %100               |
| 52 | M43          | Z         | .081                         | .081               | 0                     | %100               |
| 53 | MP4A         | X         | 0                            | 0                  | 0                     | %100               |
| 54 | MP4A         | Z         | .542                         | .542               | 0                     | %100               |

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

|   | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft,%] |
|---|--------------|-----------|------------------------------|--------------------|-----------------------|--------------------|
| 1 | M1           | X         | -.203                        | -.203              | 0                     | %100               |
| 2 | M1           | Z         | .352                         | .352               | 0                     | %100               |
| 3 | M2           | X         | -.203                        | -.203              | 0                     | %100               |
| 4 | M2           | Z         | .352                         | .352               | 0                     | %100               |





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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft,%] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|--------------------|
| 5  | M13          | X         | -.015                        | -.015              | 0                     | %100               |
| 6  | M13          | Z         | .025                         | .025               | 0                     | %100               |
| 7  | M14          | X         | -.015                        | -.015              | 0                     | %100               |
| 8  | M14          | Z         | .025                         | .025               | 0                     | %100               |
| 9  | M15          | X         | -.015                        | -.015              | 0                     | %100               |
| 10 | M15          | Z         | .025                         | .025               | 0                     | %100               |
| 11 | M16          | X         | -.015                        | -.015              | 0                     | %100               |
| 12 | M16          | Z         | .025                         | .025               | 0                     | %100               |
| 13 | OVP          | X         | -.024                        | -.024              | 0                     | %100               |
| 14 | OVP          | Z         | .042                         | .042               | 0                     | %100               |
| 15 | M18          | X         | -.024                        | -.024              | 0                     | %100               |
| 16 | M18          | Z         | .042                         | .042               | 0                     | %100               |
| 17 | M19          | X         | -.169                        | -.169              | 0                     | %100               |
| 18 | M19          | Z         | .293                         | .293               | 0                     | %100               |
| 19 | M20          | X         | -.169                        | -.169              | 0                     | %100               |
| 20 | M20          | Z         | .293                         | .293               | 0                     | %100               |
| 21 | M21          | X         | -.044                        | -.044              | 0                     | %100               |
| 22 | M21          | Z         | .076                         | .076               | 0                     | %100               |
| 23 | M22          | X         | -.044                        | -.044              | 0                     | %100               |
| 24 | M22          | Z         | .076                         | .076               | 0                     | %100               |
| 25 | M23          | X         | -.044                        | -.044              | 0                     | %100               |
| 26 | M23          | Z         | .076                         | .076               | 0                     | %100               |
| 27 | M24          | X         | -.044                        | -.044              | 0                     | %100               |
| 28 | M24          | Z         | .076                         | .076               | 0                     | %100               |
| 29 | M25          | X         | -.049                        | -.049              | 0                     | %100               |
| 30 | M25          | Z         | .084                         | .084               | 0                     | %100               |
| 31 | M26          | X         | -.049                        | -.049              | 0                     | %100               |
| 32 | M26          | Z         | .084                         | .084               | 0                     | %100               |
| 33 | M27          | X         | -.07                         | -.07               | 0                     | %100               |
| 34 | M27          | Z         | .122                         | .122               | 0                     | %100               |
| 35 | M28          | X         | -.07                         | -.07               | 0                     | %100               |
| 36 | M28          | Z         | .122                         | .122               | 0                     | %100               |
| 37 | MP3A         | X         | -.271                        | -.271              | 0                     | %100               |
| 38 | MP3A         | Z         | .469                         | .469               | 0                     | %100               |
| 39 | MP2A         | X         | -.271                        | -.271              | 0                     | %100               |
| 40 | MP2A         | Z         | .469                         | .469               | 0                     | %100               |
| 41 | MP1A         | X         | -.271                        | -.271              | 0                     | %100               |
| 42 | MP1A         | Z         | .469                         | .469               | 0                     | %100               |
| 43 | M44          | X         | -.059                        | -.059              | 0                     | %100               |
| 44 | M44          | Z         | .102                         | .102               | 0                     | %100               |
| 45 | M45          | X         | -.059                        | -.059              | 0                     | %100               |
| 46 | M45          | Z         | .102                         | .102               | 0                     | %100               |
| 47 | M46          | X         | -.059                        | -.059              | 0                     | %100               |
| 48 | M46          | Z         | .102                         | .102               | 0                     | %100               |
| 49 | M47          | X         | -.059                        | -.059              | 0                     | %100               |
| 50 | M47          | Z         | .102                         | .102               | 0                     | %100               |
| 51 | M43          | X         | -.151                        | -.151              | 0                     | %100               |
| 52 | M43          | Z         | .262                         | .262               | 0                     | %100               |
| 53 | MP4A         | X         | -.271                        | -.271              | 0                     | %100               |
| 54 | MP4A         | Z         | .469                         | .469               | 0                     | %100               |

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

|   | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft,%] |
|---|--------------|-----------|------------------------------|--------------------|-----------------------|--------------------|
| 1 | M1           | X         | -.117                        | -.117              | 0                     | %100               |
| 2 | M1           | Z         | .068                         | .068               | 0                     | %100               |
| 3 | M2           | X         | -.117                        | -.117              | 0                     | %100               |



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

| Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[lb/ft.F,ksf] | Start Location[ft.-%] | End Location[ft.-%] |
|--------------|-----------|------------------------------|----------------------------|-----------------------|---------------------|
| 4            | M2        | Z                            | .068                       | .068                  | 0 %100              |
| 5            | M13       | X                            | -.076                      | -.076                 | 0 %100              |
| 6            | M13       | Z                            | .044                       | .044                  | 0 %100              |
| 7            | M14       | X                            | -.076                      | -.076                 | 0 %100              |
| 8            | M14       | Z                            | .044                       | .044                  | 0 %100              |
| 9            | M15       | X                            | -.076                      | -.076                 | 0 %100              |
| 10           | M15       | Z                            | .044                       | .044                  | 0 %100              |
| 11           | M16       | X                            | -.076                      | -.076                 | 0 %100              |
| 12           | M16       | Z                            | .044                       | .044                  | 0 %100              |
| 13           | OVP       | X                            | -.006                      | -.006                 | 0 %100              |
| 14           | OVP       | Z                            | .003                       | .003                  | 0 %100              |
| 15           | M18       | X                            | -.006                      | -.006                 | 0 %100              |
| 16           | M18       | Z                            | .003                       | .003                  | 0 %100              |
| 17           | M19       | X                            | -.257                      | -.257                 | 0 %100              |
| 18           | M19       | Z                            | .148                       | .148                  | 0 %100              |
| 19           | M20       | X                            | -.257                      | -.257                 | 0 %100              |
| 20           | M20       | Z                            | .148                       | .148                  | 0 %100              |
| 21           | M21       | X                            | -.025                      | -.025                 | 0 %100              |
| 22           | M21       | Z                            | .015                       | .015                  | 0 %100              |
| 23           | M22       | X                            | -.025                      | -.025                 | 0 %100              |
| 24           | M22       | Z                            | .015                       | .015                  | 0 %100              |
| 25           | M23       | X                            | -.025                      | -.025                 | 0 %100              |
| 26           | M23       | Z                            | .015                       | .015                  | 0 %100              |
| 27           | M24       | X                            | -.025                      | -.025                 | 0 %100              |
| 28           | M24       | Z                            | .015                       | .015                  | 0 %100              |
| 29           | M25       | X                            | -.079                      | -.079                 | 0 %100              |
| 30           | M25       | Z                            | .046                       | .046                  | 0 %100              |
| 31           | M26       | X                            | -.079                      | -.079                 | 0 %100              |
| 32           | M26       | Z                            | .046                       | .046                  | 0 %100              |
| 33           | M27       | X                            | -.116                      | -.116                 | 0 %100              |
| 34           | M27       | Z                            | .067                       | .067                  | 0 %100              |
| 35           | M28       | X                            | -.116                      | -.116                 | 0 %100              |
| 36           | M28       | Z                            | .067                       | .067                  | 0 %100              |
| 37           | MP3A      | X                            | -.469                      | -.469                 | 0 %100              |
| 38           | MP3A      | Z                            | .271                       | .271                  | 0 %100              |
| 39           | MP2A      | X                            | -.469                      | -.469                 | 0 %100              |
| 40           | MP2A      | Z                            | .271                       | .271                  | 0 %100              |
| 41           | MP1A      | X                            | -.469                      | -.469                 | 0 %100              |
| 42           | MP1A      | Z                            | .271                       | .271                  | 0 %100              |
| 43           | M44       | X                            | -.102                      | -.102                 | 0 %100              |
| 44           | M44       | Z                            | .059                       | .059                  | 0 %100              |
| 45           | M45       | X                            | -.102                      | -.102                 | 0 %100              |
| 46           | M45       | Z                            | .059                       | .059                  | 0 %100              |
| 47           | M46       | X                            | -.102                      | -.102                 | 0 %100              |
| 48           | M46       | Z                            | .059                       | .059                  | 0 %100              |
| 49           | M47       | X                            | -.102                      | -.102                 | 0 %100              |
| 50           | M47       | Z                            | .059                       | .059                  | 0 %100              |
| 51           | M43       | X                            | -.385                      | -.385                 | 0 %100              |
| 52           | M43       | Z                            | .222                       | .222                  | 0 %100              |
| 53           | MP4A      | X                            | -.469                      | -.469                 | 0 %100              |
| 54           | MP4A      | Z                            | .271                       | .271                  | 0 %100              |

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

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



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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 3  | M2           | X         | 0                            | 0                  | 0                     | %100                |
| 4  | M2           | Z         | 0                            | 0                  | 0                     | %100                |
| 5  | M13          | X         | -.118                        | -.118              | 0                     | %100                |
| 6  | M13          | Z         | 0                            | 0                  | 0                     | %100                |
| 7  | M14          | X         | -.118                        | -.118              | 0                     | %100                |
| 8  | M14          | Z         | 0                            | 0                  | 0                     | %100                |
| 9  | M15          | X         | -.118                        | -.118              | 0                     | %100                |
| 10 | M15          | Z         | 0                            | 0                  | 0                     | %100                |
| 11 | M16          | X         | -.118                        | -.118              | 0                     | %100                |
| 12 | M16          | Z         | 0                            | 0                  | 0                     | %100                |
| 13 | OVP          | X         | -.131                        | -.131              | 0                     | %100                |
| 14 | OVP          | Z         | 0                            | 0                  | 0                     | %100                |
| 15 | M18          | X         | -.131                        | -.131              | 0                     | %100                |
| 16 | M18          | Z         | 0                            | 0                  | 0                     | %100                |
| 17 | M19          | X         | -.131                        | -.131              | 0                     | %100                |
| 18 | M19          | Z         | 0                            | 0                  | 0                     | %100                |
| 19 | M20          | X         | -.131                        | -.131              | 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         | -.11                         | -.11               | 0                     | %100                |
| 30 | M25          | Z         | 0                            | 0                  | 0                     | %100                |
| 31 | M26          | X         | -.11                         | -.11               | 0                     | %100                |
| 32 | M26          | Z         | 0                            | 0                  | 0                     | %100                |
| 33 | M27          | X         | -.11                         | -.11               | 0                     | %100                |
| 34 | M27          | Z         | 0                            | 0                  | 0                     | %100                |
| 35 | M28          | X         | -.11                         | -.11               | 0                     | %100                |
| 36 | M28          | Z         | 0                            | 0                  | 0                     | %100                |
| 37 | MP3A         | X         | -.542                        | -.542              | 0                     | %100                |
| 38 | MP3A         | Z         | 0                            | 0                  | 0                     | %100                |
| 39 | MP2A         | X         | -.542                        | -.542              | 0                     | %100                |
| 40 | MP2A         | Z         | 0                            | 0                  | 0                     | %100                |
| 41 | MP1A         | X         | -.542                        | -.542              | 0                     | %100                |
| 42 | MP1A         | Z         | 0                            | 0                  | 0                     | %100                |
| 43 | M44          | X         | -.118                        | -.118              | 0                     | %100                |
| 44 | M44          | Z         | 0                            | 0                  | 0                     | %100                |
| 45 | M45          | X         | -.118                        | -.118              | 0                     | %100                |
| 46 | M45          | Z         | 0                            | 0                  | 0                     | %100                |
| 47 | M46          | X         | -.118                        | -.118              | 0                     | %100                |
| 48 | M46          | Z         | 0                            | 0                  | 0                     | %100                |
| 49 | M47          | X         | -.118                        | -.118              | 0                     | %100                |
| 50 | M47          | Z         | 0                            | 0                  | 0                     | %100                |
| 51 | M43          | X         | -.366                        | -.366              | 0                     | %100                |
| 52 | M43          | Z         | 0                            | 0                  | 0                     | %100                |
| 53 | MP4A         | X         | -.542                        | -.542              | 0                     | %100                |
| 54 | MP4A         | Z         | 0                            | 0                  | 0                     | %100                |

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

|   | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|---|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 1 | M1           | X         | -.117                        | -.117              | 0                     | %100                |



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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft,...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|------------------------|---------------------|
| 2  | M1           | Z         | -068                         | -068               | 0                      | %100                |
| 3  | M2           | X         | -117                         | -117               | 0                      | %100                |
| 4  | M2           | Z         | -068                         | -068               | 0                      | %100                |
| 5  | M13          | X         | -076                         | -076               | 0                      | %100                |
| 6  | M13          | Z         | -044                         | -044               | 0                      | %100                |
| 7  | M14          | X         | -076                         | -076               | 0                      | %100                |
| 8  | M14          | Z         | -044                         | -044               | 0                      | %100                |
| 9  | M15          | X         | -076                         | -076               | 0                      | %100                |
| 10 | M15          | Z         | -044                         | -044               | 0                      | %100                |
| 11 | M16          | X         | -076                         | -076               | 0                      | %100                |
| 12 | M16          | Z         | -044                         | -044               | 0                      | %100                |
| 13 | OVP          | X         | -257                         | -257               | 0                      | %100                |
| 14 | OVP          | Z         | -148                         | -148               | 0                      | %100                |
| 15 | M18          | X         | -257                         | -257               | 0                      | %100                |
| 16 | M18          | Z         | -148                         | -148               | 0                      | %100                |
| 17 | M19          | X         | -006                         | -006               | 0                      | %100                |
| 18 | M19          | Z         | -003                         | -003               | 0                      | %100                |
| 19 | M20          | X         | -006                         | -006               | 0                      | %100                |
| 20 | M20          | Z         | -003                         | -003               | 0                      | %100                |
| 21 | M21          | X         | -025                         | -025               | 0                      | %100                |
| 22 | M21          | Z         | -015                         | -015               | 0                      | %100                |
| 23 | M22          | X         | -025                         | -025               | 0                      | %100                |
| 24 | M22          | Z         | -015                         | -015               | 0                      | %100                |
| 25 | M23          | X         | -025                         | -025               | 0                      | %100                |
| 26 | M23          | Z         | -015                         | -015               | 0                      | %100                |
| 27 | M24          | X         | -025                         | -025               | 0                      | %100                |
| 28 | M24          | Z         | -015                         | -015               | 0                      | %100                |
| 29 | M25          | X         | -116                         | -116               | 0                      | %100                |
| 30 | M25          | Z         | -067                         | -067               | 0                      | %100                |
| 31 | M26          | X         | -116                         | -116               | 0                      | %100                |
| 32 | M26          | Z         | -067                         | -067               | 0                      | %100                |
| 33 | M27          | X         | -079                         | -079               | 0                      | %100                |
| 34 | M27          | Z         | -046                         | -046               | 0                      | %100                |
| 35 | M28          | X         | -079                         | -079               | 0                      | %100                |
| 36 | M28          | Z         | -046                         | -046               | 0                      | %100                |
| 37 | MP3A         | X         | -469                         | -469               | 0                      | %100                |
| 38 | MP3A         | Z         | -271                         | -271               | 0                      | %100                |
| 39 | MP2A         | X         | -469                         | -469               | 0                      | %100                |
| 40 | MP2A         | Z         | -271                         | -271               | 0                      | %100                |
| 41 | MP1A         | X         | -469                         | -469               | 0                      | %100                |
| 42 | MP1A         | Z         | -271                         | -271               | 0                      | %100                |
| 43 | M44          | X         | -102                         | -102               | 0                      | %100                |
| 44 | M44          | Z         | -059                         | -059               | 0                      | %100                |
| 45 | M45          | X         | -102                         | -102               | 0                      | %100                |
| 46 | M45          | Z         | -059                         | -059               | 0                      | %100                |
| 47 | M46          | X         | -102                         | -102               | 0                      | %100                |
| 48 | M46          | Z         | -059                         | -059               | 0                      | %100                |
| 49 | M47          | X         | -102                         | -102               | 0                      | %100                |
| 50 | M47          | Z         | -059                         | -059               | 0                      | %100                |
| 51 | M43          | X         | -126                         | -126               | 0                      | %100                |
| 52 | M43          | Z         | -073                         | -073               | 0                      | %100                |
| 53 | MP4A         | X         | -469                         | -469               | 0                      | %100                |
| 54 | MP4A         | Z         | -271                         | -271               | 0                      | %100                |

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

Member Label      Direction      Start Magnitude[lb/ft.F,ksf]      End Magnitude[... Start Location[ft,... End Location[ft, %]



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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[...] | Start Location[ft...] | End Location[ft, %] |
|----|--------------|-----------|------------------------------|--------------------|-----------------------|---------------------|
| 1  | M1           | X         | -203                         | -203               | 0                     | %100                |
| 2  | M1           | Z         | -352                         | -352               | 0                     | %100                |
| 3  | M2           | X         | -203                         | -203               | 0                     | %100                |
| 4  | M2           | Z         | -352                         | -352               | 0                     | %100                |
| 5  | M13          | X         | -015                         | -015               | 0                     | %100                |
| 6  | M13          | Z         | -025                         | -025               | 0                     | %100                |
| 7  | M14          | X         | -015                         | -015               | 0                     | %100                |
| 8  | M14          | Z         | -025                         | -025               | 0                     | %100                |
| 9  | M15          | X         | -015                         | -015               | 0                     | %100                |
| 10 | M15          | Z         | -025                         | -025               | 0                     | %100                |
| 11 | M16          | X         | -015                         | -015               | 0                     | %100                |
| 12 | M16          | Z         | -025                         | -025               | 0                     | %100                |
| 13 | OVP          | X         | -169                         | -169               | 0                     | %100                |
| 14 | OVP          | Z         | -293                         | -293               | 0                     | %100                |
| 15 | M18          | X         | -169                         | -169               | 0                     | %100                |
| 16 | M18          | Z         | -293                         | -293               | 0                     | %100                |
| 17 | M19          | X         | -024                         | -024               | 0                     | %100                |
| 18 | M19          | Z         | -042                         | -042               | 0                     | %100                |
| 19 | M20          | X         | -024                         | -024               | 0                     | %100                |
| 20 | M20          | Z         | -042                         | -042               | 0                     | %100                |
| 21 | M21          | X         | -044                         | -044               | 0                     | %100                |
| 22 | M21          | Z         | -076                         | -076               | 0                     | %100                |
| 23 | M22          | X         | -044                         | -044               | 0                     | %100                |
| 24 | M22          | Z         | -076                         | -076               | 0                     | %100                |
| 25 | M23          | X         | -044                         | -044               | 0                     | %100                |
| 26 | M23          | Z         | -076                         | -076               | 0                     | %100                |
| 27 | M24          | X         | -044                         | -044               | 0                     | %100                |
| 28 | M24          | Z         | -076                         | -076               | 0                     | %100                |
| 29 | M25          | X         | -07                          | -07                | 0                     | %100                |
| 30 | M25          | Z         | -122                         | -122               | 0                     | %100                |
| 31 | M26          | X         | -07                          | -07                | 0                     | %100                |
| 32 | M26          | Z         | -122                         | -122               | 0                     | %100                |
| 33 | M27          | X         | -049                         | -049               | 0                     | %100                |
| 34 | M27          | Z         | -084                         | -084               | 0                     | %100                |
| 35 | M28          | X         | -049                         | -049               | 0                     | %100                |
| 36 | M28          | Z         | -084                         | -084               | 0                     | %100                |
| 37 | MP3A         | X         | -271                         | -271               | 0                     | %100                |
| 38 | MP3A         | Z         | -469                         | -469               | 0                     | %100                |
| 39 | MP2A         | X         | -271                         | -271               | 0                     | %100                |
| 40 | MP2A         | Z         | -469                         | -469               | 0                     | %100                |
| 41 | MP1A         | X         | -271                         | -271               | 0                     | %100                |
| 42 | MP1A         | Z         | -469                         | -469               | 0                     | %100                |
| 43 | M44          | X         | -059                         | -059               | 0                     | %100                |
| 44 | M44          | Z         | -102                         | -102               | 0                     | %100                |
| 45 | M45          | X         | -059                         | -059               | 0                     | %100                |
| 46 | M45          | Z         | -102                         | -102               | 0                     | %100                |
| 47 | M46          | X         | -059                         | -059               | 0                     | %100                |
| 48 | M46          | Z         | -102                         | -102               | 0                     | %100                |
| 49 | M47          | X         | -059                         | -059               | 0                     | %100                |
| 50 | M47          | Z         | -102                         | -102               | 0                     | %100                |
| 51 | M43          | X         | -002                         | -002               | 0                     | %100                |
| 52 | M43          | Z         | -003                         | -003               | 0                     | %100                |
| 53 | MP4A         | X         | -271                         | -271               | 0                     | %100                |
| 54 | MP4A         | Z         | -469                         | -469               | 0                     | %100                |



Company :  
 Designer :  
 Job Number :  
 Model Name :

July 2, 2021  
 4:10 PM  
 Checked By: \_\_\_\_\_

### 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 | 739.707   | 10 | 1161.135 | 21 | 1655.046  | 13 | -263      | 6  | 0         | 51 | .134      | 9  |
| 2 |         | min | -461.414  | 49 | 479.326  | 3  | -238.325  | 7  | -.7       | 24 | 0         | 1  | -.094     | 49 |
| 3 | N36     | max | 461.541   | 49 | 1090.611 | 15 | 1036.021  | 2  | -.201     | 8  | 0         | 51 | .136      | 9  |
| 4 |         | min | -565.525  | 5  | 453.777  | 9  | -2251.087 | 8  | -.645     | 14 | 0         | 1  | -.09      | 49 |
| 5 | N61A    | max | 437.993   | 9  | 27.109   | 15 | 881.911   | 9  | 0         | 51 | 0         | 51 | 0         | 51 |
| 6 |         | min | -439.899  | 3  | 12.638   | 12 | -880.14   | 3  | 0         | 1  | 0         | 1  | 0         | 1  |
| 7 | Totals: | max | 1358.337  | 10 | 2265.021 | 21 | 1932.524  | 1  |           |    |           |    |           |    |
| 8 |         | min | -1358.338 | 4  | 1009.517 | 3  | -1932.519 | 7  |           |    |           |    |           |    |

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

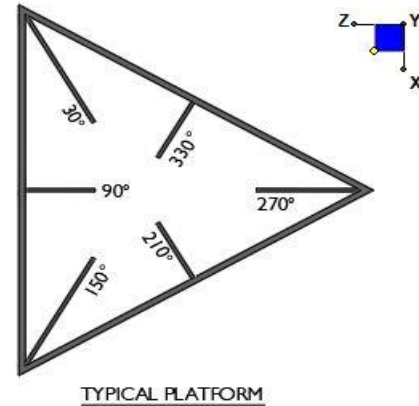
| Member | Shape | Code Check | Loc[ft] | LC    | Shear Check | Loc[ft] | Dir   | LC | phi*Pnc [lb] | phi*...   | phi*... | phi*... | Eqn            |
|--------|-------|------------|---------|-------|-------------|---------|-------|----|--------------|-----------|---------|---------|----------------|
| 1      | M22   | PL5/8X...  | .366    | .531  | 20          | .097    | .531  | y  | 8            | 67591.76  | 6890... | .897    | 5.024 ...H1-.. |
| 2      | M24   | PL5/8X...  | .361    | .531  | 23          | .073    | .437  | y  | 1            | 67591.76  | 6890... | .897    | 5.024 ...H1-.. |
| 3      | M2    | PIPE_...   | .321    | 3.776 | 8           | .105    | 3.646 |    | 9            | 14558.792 | 50715   | 3.596   | 3.596 ...H1-.. |
| 4      | M23   | PL5/8X...  | .268    | .531  | 26          | .044    | .531  | y  | 1            | 67591.76  | 6890... | .897    | 5.024 ...H1-.. |
| 5      | M21   | PL5/8X...  | .261    | .531  | 32          | .091    | .531  | y  | 8            | 67591.76  | 6890... | .897    | 5.024 ...H1-.. |
| 6      | OVP   | PIPE_...   | .244    | 0     | 8           | .066    | 2.501 |    | 2            | 31128.25  | 32130   | 1.872   | 1.872 ...H1-.. |
| 7      | M1    | PIPE_...   | .241    | 4.297 | 8           | .065    | 8.724 |    | 20           | 14558.792 | 50715   | 3.596   | 3.596 ...H1-.. |
| 8      | M16   | PL5/8X...  | .180    | .422  | 20          | .153    | 0     | y  | 7            | 66184.77  | 6890... | .897    | 5.024 ...H1-.. |
| 9      | M15   | PL5/8X...  | .180    | 0     | 21          | .142    | 0     | y  | 1            | 66184.77  | 6890... | .897    | 5.024 ...H1-.. |
| 10     | M13   | PL5/8X...  | .173    | .422  | 8           | .245    | .422  | y  | 8            | 66184.77  | 6890... | .897    | 5.024 ...H1-.. |
| 11     | M20   | PIPE_...   | .160    | 0     | 7           | .063    | 0     |    | 24           | 31128.25  | 32130   | 1.872   | 1.872 ...H1-.. |
| 12     | M14   | PL5/8X...  | .143    | 0     | 39          | .101    | .422  | y  | 2            | 66184.77  | 6890... | .897    | 5.024 ...H1-.. |
| 13     | M19   | PIPE_...   | .138    | 0     | 1           | .077    | 0     |    | 24           | 31128.25  | 32130   | 1.872   | 1.872 ...H1-.. |
| 14     | MP4A  | PIPE_...   | .137    | 2.25  | 49          | .026    | 5.583 |    | 10           | 30038.461 | 50715   | 3.596   | 3.596 ...H1-.. |
| 15     | MP3A  | PIPE_...   | .122    | 2.25  | 9           | .086    | 2.25  |    | 9            | 30038.461 | 50715   | 3.596   | 3.596 ...H1-.. |
| 16     | MP2A  | PIPE_...   | .120    | 2.25  | 9           | .068    | 5.583 |    | 4            | 30038.461 | 50715   | 3.596   | 3.596 ...H1-.. |
| 17     | MP1A  | PIPE_...   | .107    | 2.25  | 17          | .026    | 5.583 |    | 4            | 30038.461 | 50715   | 3.596   | 3.596 ...H1-.. |
| 18     | M18   | PIPE_...   | .099    | 0     | 2           | .057    | 0     |    | 26           | 31128.25  | 32130   | 1.872   | 1.872 ...H1-.. |
| 19     | M28   | SR_0.75    | .067    | 4.167 | 20          | .015    | 0     |    | 11           | 2863.936  | 1391... | .174    | .174 ...H1-..  |
| 20     | M26   | SR_0.75    | .051    | 0     | 41          | .013    | 4.167 |    | 2            | 2863.936  | 1391... | .174    | .174 ...H1-..  |
| 21     | M43   | PIPE_...   | .048    | 0     | 9           | .003    | 0     |    | 21           | 20608.012 | 32130   | 1.872   | 1.872 ...H1-.. |
| 22     | M45   | SR_0....   | .042    | 1.667 | 8           | .017    | 0     |    | 9            | 2158.269  | 9664... | .101    | .101 ...H1-..  |
| 23     | M44   | SR_0....   | .042    | 1.667 | 8           | .005    | 0     |    | 49           | 2158.269  | 9664... | .101    | .101 ...H1-..  |
| 24     | M46   | SR_0....   | .042    | 1.667 | 7           | .012    | 0     |    | 9            | 2158.269  | 9664... | .101    | .101 1 H1-..   |
| 25     | M47   | SR_0....   | .030    | 1.667 | 3           | .011    | 0     |    | 9            | 2158.269  | 9664... | .101    | .101 ...H1-..  |
| 26     | M27   | SR_0.75    | .000    | 0     | 51          | .010    | 0     |    | 8            | 2863.936  | 1391... | .174    | .174 ...H1-..  |
| 27     | M25   | SR_0.75    | .000    | 0     | 51          | .007    | 4.167 |    | 4            | 2863.936  | 1391... | .174    | .174 ...H1-..  |



### I. Mount-to-Tower Connection Check

RISA Model Data

| Nodes<br>(labeled per RISA) | Orientation<br>(per graphic of typical platform) |
|-----------------------------|--|
| N35                         | 90   |
| N36                         | 90   |
|                             |  |
|                             |  |
|                             |  |
|                             |  |
|                             |  |
|                             |  |



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):

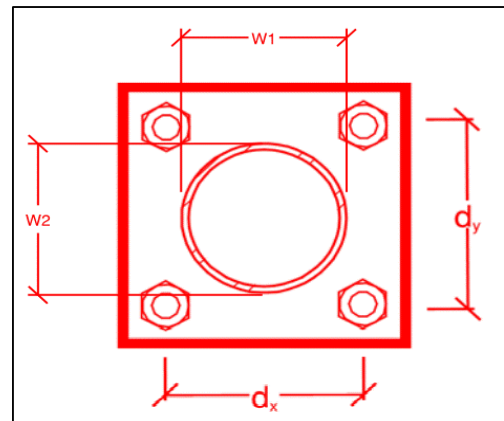
Tensile Strength / bolt (kips):

Shear Strength / bolt (kips):

Tensile Capacity Overall:

Shear Capacity Overall:

|               |
|---------------|
| yes           |
| 4             |
| 9.5           |
| 3.5           |
| A307          |
| 0.625         |
| 6.4           |
| 2.4           |
| 10.0          |
| 6.0           |
| <b>16.0%*</b> |
| <b>9.9%</b>   |



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



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

### Documents & Photos Required from Contractor – **New Mount Passing MA**

---

**Purpose** – to provide MASER CONSULTING 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 modification was completed in accordance with the modification drawings.
- 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 Mount Analysis. NOTE If loading is different than what is conveyed in the modification drawing contact MASER CONSULTING immediately.
- Verification that the New Mount Installed is as specified in the MA
- 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.vzwsmart.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 modifications
  - Photos of the appropriate mount before and after installation of the new mount;
- 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 newly installed mount that is as specified in the Mount Analysis
  - Photos showing the safety climb wire rope above and below the mount prior to modification.



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

**Issue:**

Remove and replace mounts with SitePro1 VFA12-HD mount.

Install 8' long P2.5 STD pipes in all positions.

All mount pipes shall be spaced equally apart.


















Contractor shall install the proposed OVP on the right-side standoff arm when looking out from the mount.

The Tie back shall attach to the right side of face horizontal and the other end to the adjust tower leg.

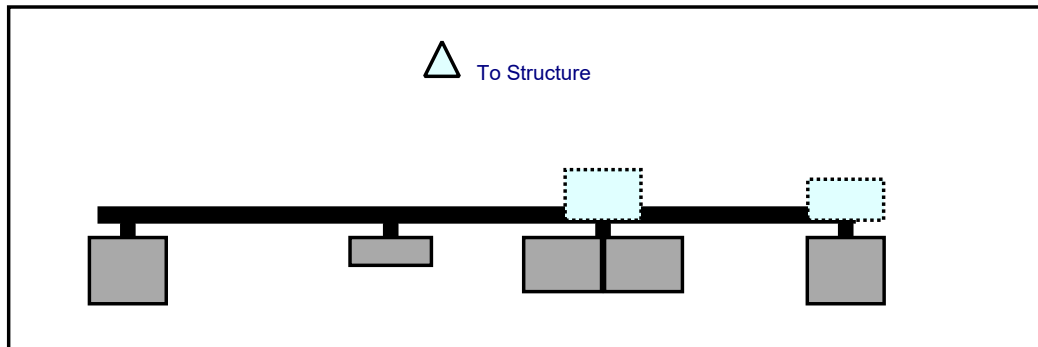
**Response:**

|  |
|--|
|  |
|--|

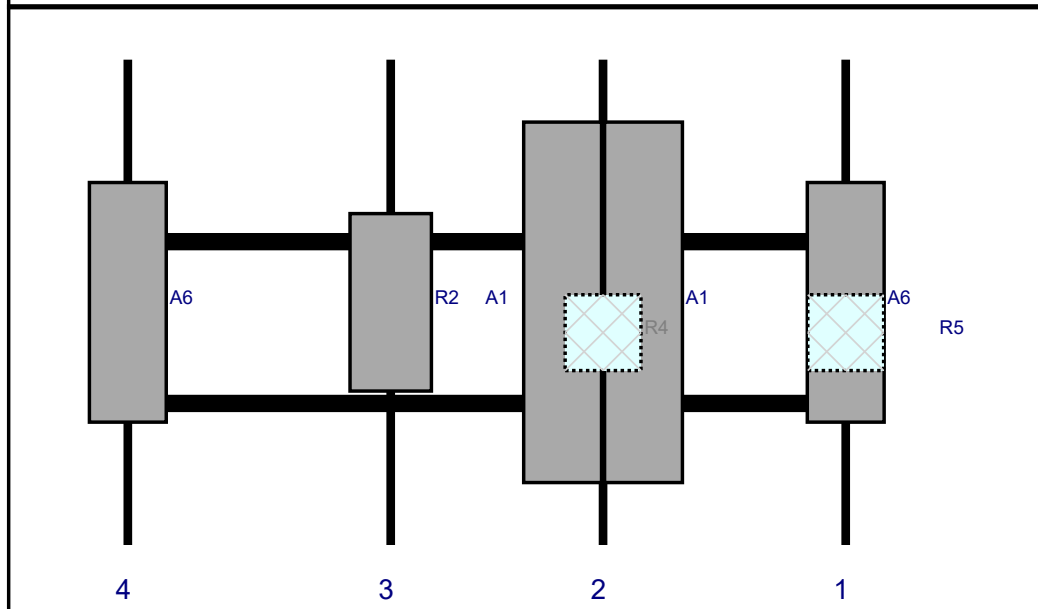
## **Schedule A – Photo & Document File Structure**

-  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

Plan View

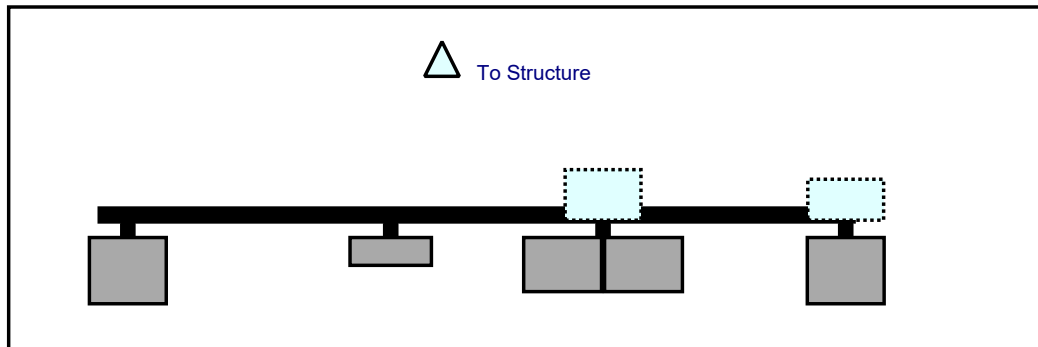


Front View  
Looking at Structure

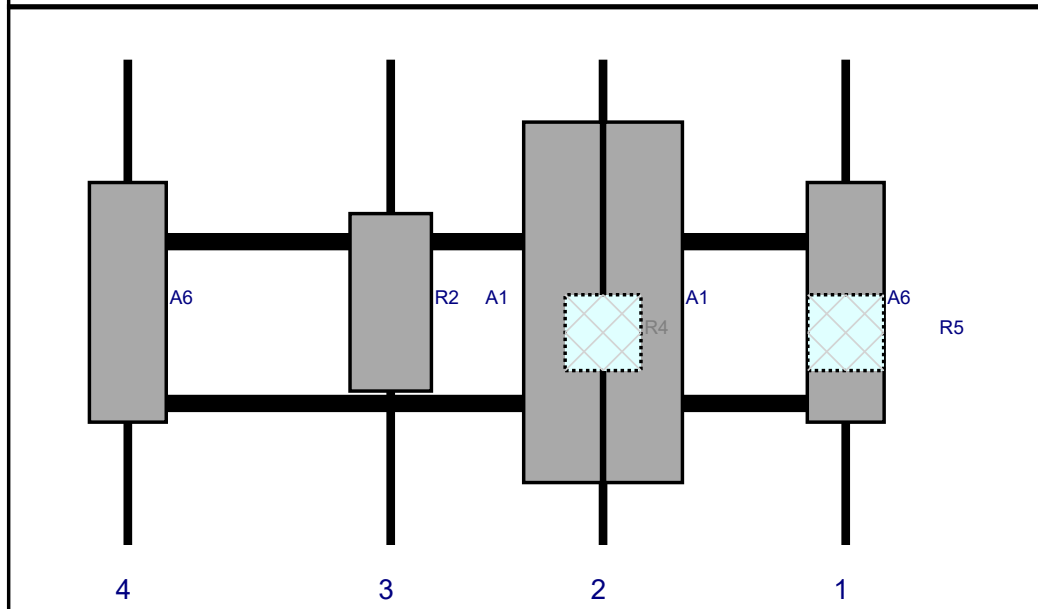


| Ref# | Model             | Height (in) | Width (in) | H Dist Frm L. | Pipe # | Pipe Pos V | Ant Pos | C. Ant Frm T. | Ant H Off | Status   | Validation |
|------|-------------------|-------------|------------|---------------|--------|------------|---------|---------------|-----------|----------|------------|
| A6   | LPA-80063/4CF     | 47.4        | 15.2       | 148           | 1      | a          | Front   | 48            | 0         | Retained | 03/31/2021 |
| R5   | B5/B13 RRH-BR04C  | 15          | 15         | 148           | 1      | a          | Behind  | 54            | 0         | Added    |            |
| A1   | MX06FRO660-03     | 71.3        | 15.4       | 100           | 2      | a          | Front   | 48            | 8         | Added    |            |
| A1   | MX06FRO660-03     | 71.3        | 15.4       | 100           | 2      | b          | Front   | 48            | -8        | Added    |            |
| R4   | B2/B66A RRH-BR049 | 15          | 15         | 100           | 2      | a          | Behind  | 54            | 0         | Added    |            |
| R2   | MT6407-77A        | 35.1        | 16.1       | 58            | 3      | a          | Front   | 48            | 0         | Added    |            |
| A6   | LPA-80063/4CF     | 47.4        | 15.2       | 6             | 4      | a          | Front   | 48            | 0         | Retained | 03/31/2021 |

Plan View

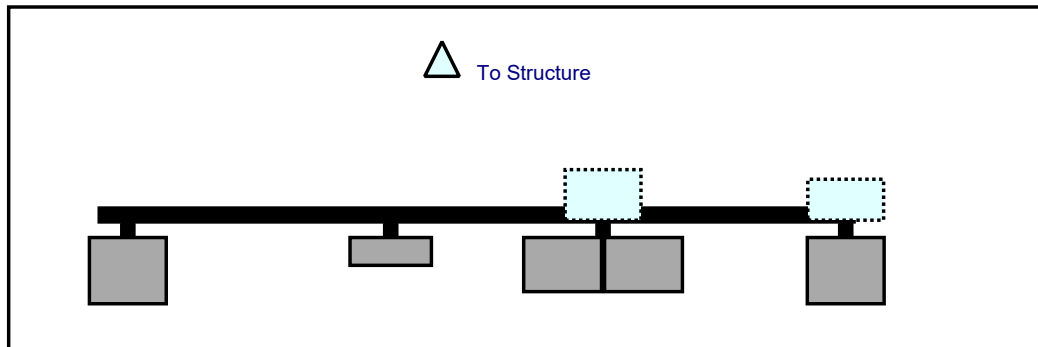


Front View  
Looking at Structure

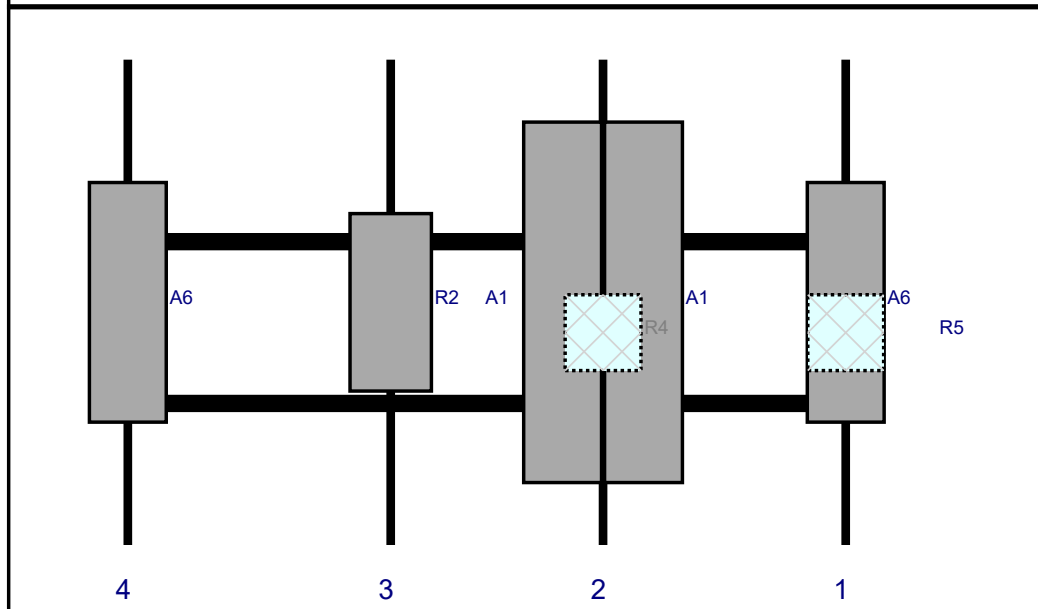


| Ref# | Model             | Height (in) | Width (in) | H Dist Frm L. | Pipe # | Pipe Pos V | Ant Pos | C. Ant Frm T. | Ant H Off | Status   | Validation |
|------|-------------------|-------------|------------|---------------|--------|------------|---------|---------------|-----------|----------|------------|
| A6   | LPA-80063/4CF     | 47.4        | 15.2       | 148           | 1      | a          | Front   | 48            | 0         | Retained | 03/31/2021 |
| R5   | B5/B13 RRH-BR04C  | 15          | 15         | 148           | 1      | a          | Behind  | 54            | 0         | Added    |            |
| A1   | MX06FRO660-03     | 71.3        | 15.4       | 100           | 2      | a          | Front   | 48            | 8         | Added    |            |
| A1   | MX06FRO660-03     | 71.3        | 15.4       | 100           | 2      | b          | Front   | 48            | -8        | Added    |            |
| R4   | B2/B66A RRH-BR049 | 15          | 15         | 100           | 2      | a          | Behind  | 54            | 0         | Added    |            |
| R2   | MT6407-77A        | 35.1        | 16.1       | 58            | 3      | a          | Front   | 48            | 0         | Added    |            |
| A6   | LPA-80063/4CF     | 47.4        | 15.2       | 6             | 4      | a          | Front   | 48            | 0         | Retained | 03/31/2021 |

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 |
|------|-------------------|-------------|------------|---------------|--------|------------|---------|---------------|-----------|----------|------------|
| A6   | LPA-80063/4CF     | 47.4        | 15.2       | 148           | 1      | a          | Front   | 48            | 0         | Retained | 03/31/2021 |
| R5   | B5/B13 RRH-BR04C  | 15          | 15         | 148           | 1      | a          | Behind  | 54            | 0         | Added    |            |
| A1   | MX06FRO660-03     | 71.3        | 15.4       | 100           | 2      | a          | Front   | 48            | 8         | Added    |            |
| A1   | MX06FRO660-03     | 71.3        | 15.4       | 100           | 2      | b          | Front   | 48            | -8        | Added    |            |
| R4   | B2/B66A RRH-BR049 | 15          | 15         | 100           | 2      | a          | Behind  | 54            | 0         | Added    |            |
| R2   | MT6407-77A        | 35.1        | 16.1       | 58            | 3      | a          | Front   | 48            | 0         | Added    |            |
| A6   | LPA-80063/4CF     | 47.4        | 15.2       | 6             | 4      | a          | Front   | 48            | 0         | Retained | 03/31/2021 |



**Subject:** *TIA-222-H Usage*

**Site Information**

|                      |   |
|----------------------|---|
| <i>Site ID:</i>      | <i>469110-VZW / MILFORD CENTER CT</i>   |
| <i>Site Name:</i>    | <i>MILFORD CENTER CT</i>  |
| <i>Carrier Name:</i> | <i>Verizon Wireless</i>   |
| <i>Address:</i>      | <i>434 Boston Post Road<br/>Milford, Connecticut 06460<br/>New Haven County</i> |
| <i>Latitude:</i>     | <i>41.228528°</i>   |
| <i>Longitude:</i>    | <i>-73.070139°</i>  |

**Structure Information**

|                    |                              |
|--------------------|------------------------------|
| <i>Tower Type:</i> | <i>150-Ft Self Support</i>   |
| <i>Mount Type:</i> | <i>13.00-Ft Sector Mount</i> |

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 map 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 method, seismic analysis, 30-degree increment wind direction 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 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: **MILFORD CENTER 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                | 623            | 2494      | 90                 | 0.0111                   |
| VZW Cellular | 874                 | 4                | 638            | 2552      | 90                 | 0.0113                   |
| VZW PCS      | 1975                | 4                | 1462           | 5846      | 90                 | 0.0260                   |
| VZW AWS      | 2120                | 4                | 1566           | 6264      | 90                 | 0.0278                   |
| 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/IE

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

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                        | 2.21%           |
| 0.5827                        | 1.94%           |
| 1.0000                        | 2.60%           |
| 1.0000                        | 2.78%           |
| 1.0000                        | 11.60%          |
|                               |                 |
|                               |                 |
|                               |                 |
|                               |                 |
|                               | 21.13%          |

IEEE C95.1-1992

November 10, 2015 Memorandum for Exempt Modification filings