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May 24, 2022

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

Re: **Notice of Exempt Modification – Facility Modification**
1662 Gold Star Memorial Highway, Groton, Connecticut

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") currently maintains an existing wireless telecommunications facility at the above-referenced property address (the "Property"). The facility consists of antennas and remote radio heads attached to a tower and associated equipment on the ground near the base of the tower. The tower was approved by the Siting Council ("Council") in February of 2007 (Docket No. 319). Cellco's shared use and extension of the tower was approved by the Siting Council ("Council") in July of 2007 (Petition No. 822). A copy of the Council's Docket No. 319 Decision and Order and the Council's Petition No. 822 approval are included in Attachment 1.

Cellco now intends to modify its facility by removing nine (9) existing antennas and installing three (3) new MT6407-77A antennas and six (6) MX06FRO660-03 antennas on its existing antenna platform. Cellco also intends to remove three (3) remote radio heads ("RRHs") and install six (6) new RRHs behind its antennas. A set of project plans showing Cellco's proposed facility modifications and new antennas and RRH specifications are included in Attachment 2.

Please accept this letter as notification pursuant to R.C.S.A. § 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 Groton's Chief Elected Official and Land Use Officer.

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

1. The proposed modifications will not result in an increase in the height of the existing tower. The replacement antennas will be installed on Cellco's existing antenna platform.

2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.

3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.

4. The installation of Cellco's new antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative General Power Density table for Cellco's modified facility is included in Attachment 3. The modified facility will be capable of providing Cellco's 5G wireless service.

5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.

6. According to the attached Structural Analysis ("SA") and Mount Analysis ("MA"), the existing tower, tower foundation and antenna platform, with certain modifications, can support Cellco's proposed modifications. Copies of the SA and MA are included in Attachment 4.

A copy of the parcel map and Property owner information is included in Attachment 5. A Certificate of Mailing verifying that this filing was sent to municipal officials and the property owner is included in Attachment 6.

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

Sincerely,

Kenneth C. Baldwin

Enclosures
Copy to:
Juan Melendez, Jr., Groton Mayor
Jonathan Reiner, Director of Planning
Chester Crouch, Jr., Property Owner
Alex Tyurin, Verizon Wireless

ATTACHMENT 1

DOCKET NO. 319 - Optasite, Inc. and New Cingular Wireless PCS, LLC application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications facility on one of two sites at 1662 Gold Star Memorial Highway (Route 184), Groton, Connecticut.	Connecticut Siting Council February 27, 2007

Decision and Order

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a telecommunications facility, including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate, either alone or cumulatively with other effects, when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application, and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to Optasite, Inc. and New Cingular Wireless PCS, LLC, hereinafter referred to as the Certificate Holder, for a telecommunications facility at Site B, located at 1662 Gold Star Memorial Highway, Groton, Connecticut. The Council denies certification of Site A, also located at 1662 Gold Star Memorial Highway, Groton, Connecticut.

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

1. The tower shall be constructed as a monopole, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of New Cingular Wireless PCS, LLC and other entities, both public and private, but such tower shall not exceed a height of 133 feet above ground level. The height at the top of the antennas shall not exceed 133 feet above ground level.

2. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be served on the Town of Groton for comment, and all parties and intervenors as listed in the service list, and submitted to and approved by the Council prior to the commencement of facility construction and shall include:
    a) a final site plan(s) of site development to include specifications for the tower, tower foundation, antennas, equipment compound, radio equipment, access road, utility line, and landscaping; and
    b) construction plans for site clearing, water drainage, and erosion and sedimentation control consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.

3. The Certificate Holder shall construct a reduced size equipment compound.

4. The Certificate Holder shall conduct non-routine maintenance activities during the fall, winter and early spring and plant Connecticut-native evergreens around the perimeter of the compound to minimize potential impact to whip-poor-wills (*Caprimulgus vociferous*).

5. The Certificate Holder shall, prior to the commencement of operation, provide the Council worst-case modeling of electromagnetic radio frequency power density of all proposed entities' antennas at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65, August 1997. The Certificate Holder shall ensure a recalculated report of electromagnetic radio frequency power density is submitted to the Council if and when circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.

6. Upon the establishment of any new state or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.

7. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.

8. The Certificate Holder shall provide reasonable space on the tower for no compensation for any Town of Groton public safety services (police, fire and medical services), provided such use can be accommodated and is compatible with the structural integrity of the tower.

9. Unless otherwise approved by the Council, if the facility authorized herein is not fully constructed and providing wireless services within eighteen months from the date of the mailing of the Council's Findings of Fact, Opinion, and Decision and Order (collectively called "Final Decision"), this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made. The time between the filing and resolution of any appeals of the Council's Final Decision shall not be counted in calculating this deadline.

10. Any request for extension of the time period referred to in Condition 9 shall be filed with the Council not later than 60 days prior to the expiration date of this Certificate and shall be served on all parties and intervenors, as listed in the service list, and the Town of Groton. Any proposed modifications to this Decision and Order shall likewise be so served.

11. If the facility ceases to provide wireless services for a period of one year, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.

12. The Certificate Holder shall remove any nonfunctioning antenna, and associated antenna mounting equipment, within 60 days of the date the antenna ceased to function.

13. In accordance with Section 16-50j-77 of the Regulations of Connecticut State Agencies, the Certificate Holder shall provide the Council with written notice two weeks prior to the commencement of site construction activities. In addition, the Certificate Holder shall provide the Council with written notice of the completion of site construction and the commencement of site operation.

Pursuant to General Statutes § 16-50p, the Council hereby directs that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in The New London Day and The Groton Times.

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

The parties and intervenors to this proceeding are:

Applicant	**Representative**
Optasite, Inc.	Lucia Chiocchio, Esq, Cuddy & Feder, LLC
New Cingular Wireless PCS, LLC	

CERTIFICATION

The undersigned members of the Connecticut Siting Council (Council) hereby certify that they have heard this case, or read the record thereof, in **DOCKET NO. 319** - Optasite, Inc. and New Cingular Wireless PCS, LLC application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications facility on one of two sites at 1662 Gold Star Memorial Highway (Route 184), Groton, Connecticut, and voted as follows to approve the proposed Site B, located at 1662 Gold Star Memorial Highway (Route 184), Groton, Connecticut, and deny certification of the proposed Site A also located at 1662 Gold Star Memorial Highway (Route 184), Groton, Connecticut:

Council Members	**Vote Cast**
Daniel F. Caruso, Chairman	Yes
Colin C. Tait, Vice Chairman	Absent
Commissioner Donald W. Downes Designee: Gerald J. Heffernan	Absent
Commissioner Gina McCarthy Designee: Brian J. Emerick	Yes
Philip T. Ashton	Absent
Daniel P. Lynch, Jr.	Yes
James J. Murphy, Jr.	Yes
Dr. Barbara Currier Bell	Yes
Edward S. Wilensky	Yes

Dated at New Britain, Connecticut, February 27, 2007.

Petition No. 822
Cellco Partnership d/b/a Verizon Wireless
Groton, CT
Staff Report
July 26, 2007

On June 29, 2007, Cellco Partnership d/b/a Verizon Wireless (Verizon) submitted a petition (Petition) to the Connecticut Siting Council (Council) for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need (Certificate) is required to extend the height of the existing telecommunications tower at 1662 Gold Star Highway in Groton, Connecticut.

The Council granted a Certificate to Optasite Incorporated and New Cingular Wireless PCS, LLC (Cingular) on February 27, 2007 in Docket 319. The Certificate holders had applied for a 160-foot tower; however, the Council approved the construction of a 133-foot monopole since Cingular was the only carrier involved in the proceeding and needed a height of 130 feet above ground level. The additional three feet were to allow the tower to be extended in the future.

On April 10, 2007, the Council approved a Development and Management (D&M) plan for a 133 foot structure at the site. Due to the potential presence of the whip-poor-will, construction at the site should be from the end of May to early August. Cingular has installed antennas at the 130-foot level of the structure as approved by the Council in the D&M plan.

Verizon currently has coverage gaps along portions of I-95, near the Exit 88 interchange, Route 117, Route 184 and local roads at both cellular and PCS frequencies. Verizon would require a height of 148 feet above ground level (agl) to achieve adequate coverage from the tower. Verizon proposes to extend the tower by 17 feet to a total height of 150 feet agl. The tower was designed and constructed to accommodate a tower extension to 150 feet agl.

Verizon would install equipment within a 12 foot by 30 foot shelter located in the southeast corner of the existing compound. A diesel-powered back-up generator would be installed in a segregated generator room within Verizon's equipment shelter.

The existing 133-foot structure is visible year-round from approximately 24-acres within a two mile radius of the site. The proposed increase of the tower height to 150 feet agl would result in year-round visibility of the structure from approximately 41-acres within a two mile radius of the site.

With the installation of Verizon's antennas at the 148-foot level, the worst-case total power density level would be 18.33 % of the Federal Communications Commission standard.

The tower would not require Federal Aviation Administration marking or lighting.

On June 29, 2007, a copy of this petition was sent to Groton's Town Manager, Mark R. Oefinger, and the property owner, Chester G. Crouch. Verizon sent a notice of intent to file this petition to

all adjacent property owners on June 28, 2007. No comments from the town, the property owner or adjacent land owners have been received.

On July 24, 2007, Verizon sent a letter to Michael J. Murphy, AICP, Director of Planning and Zoning. The letter mentions a conversation between Verizon and Mr. Murphy on July 24, 2007 and includes a copy of the D&M plan that was approved by the Council.

ATTACHMENT 2

VICINITY MAP

SCALE: N.T.S.

N

APPROXIMATE COORDINATES:	LATITUDE:	N41° 23' 08.4"
	LONGITUDE:	W72° 00' 47.9"

NOTE:
AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS NOT BEEN COMPLETED BY HUDSON DESIGN GROUP, LLC. DRAWINGS ARE SUBJECT TO CHANGE PENDING OUTCOME OF A STRUCTURAL ANALYSIS.

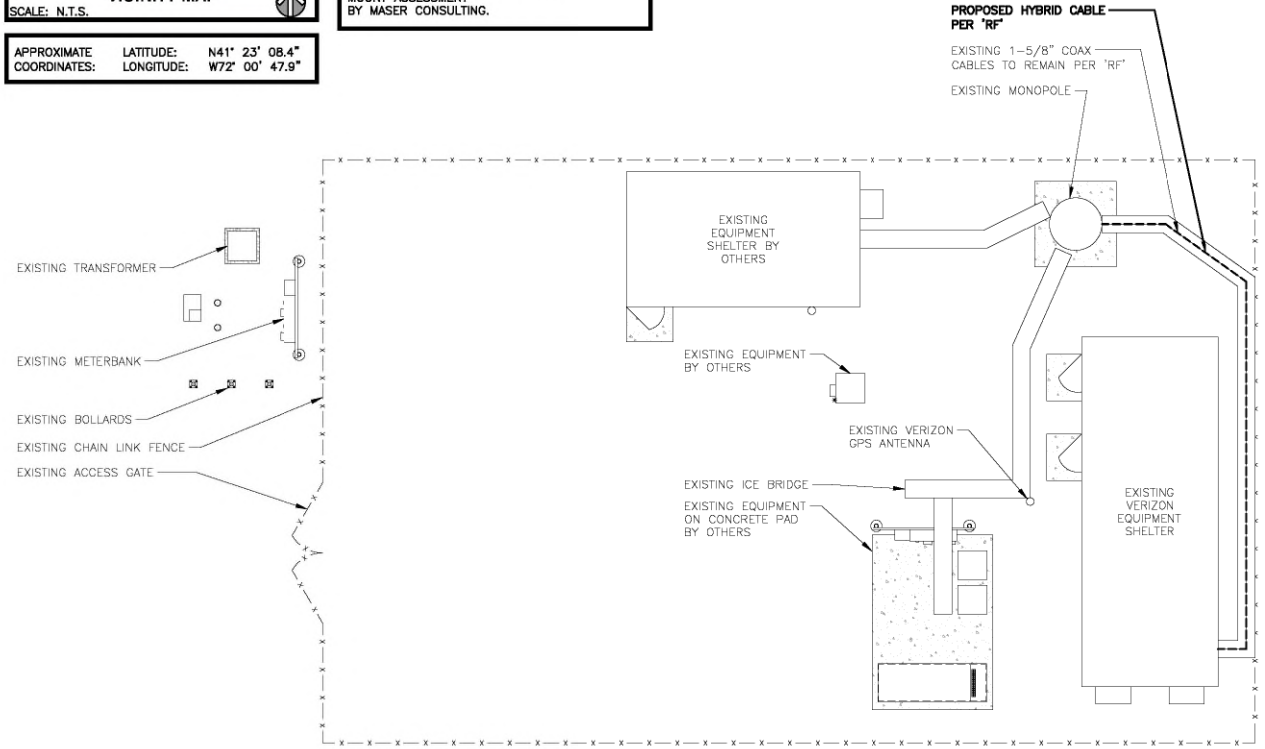
NOTE:

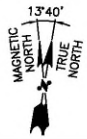
PROPOSED MT6407-77A ANTENNA SIZE AND WEIGHT ARE NOT TO EXCEED:

DIMENSIONS H35.12"xW16.06"xD5.51"
WEIGHT (INCLUDING INTEGRATED RRH) 87.1 LBS

NOTE:

AN ANALYSIS FOR THE CAPACITY OF THE EXISTING ANTENNA MOUNT TO SUPPORT THE PROPOSED LOADING IS BASED UPON THE LATEST MOUNT ASSESSMENT BY MASER CONSULTING.





COMPOUND PLAN (1 / A-1)
22x34 SCALE: 3/16"=1'-0"
11x17 SCALE: 3/32"=1'-0"

GRAPHIC SCALE
0 2'-8" 5'-4" 10'-8" 16'-0"

FIELD INSPECTION DATE: 08-05-2021

SCOPE

1. EXISTING (9) ANTENNAS TO BE REMOVED PER 'RF', EXISTING (3) ANTENAS TO REMAIN PER 'RF', INSTALL (9) PROPOSED ANTENNAS PER 'RF'.
2. INSTALL (3) SIDE-BY SIDE MOUNTS PER 'RF'.
3. EXISTING (6) RRH'S TO BE REMOVED PER 'RF', INSTALL (9) PROPOSED RRH'S PER 'RF'.
4. EXISTING (1) JUNCTION BOX TO BE REMOVED 'RF', INSTALL (1) PROPOSED JUNCTION BOX PER 'RF'.
5. EXISTING (1) 6X12 HYBRID CABLE TO BE REMOVED PER 'RF', INSTALL (1) PROPOSED 12X24 HYBRID CABLE PER 'RF'.
6. EXISTING (6) 1-5/8" COAX CABLE TO BE REMOVED PER 'RF', EXISTING (6) 1-5/8" COAX CABLES TO REMAIN PER 'RF'.
7. CAP AND WEATHERPROOF UNUSED PORTS/CONNECTORS.
8. ALL REPLACEMENT ANTENNAS TO MATCH EXISTING CONDITION & HEIGHTS.
9. RECONFIGURE/RELOCATE EXISTING ANTENNA MOUNTS AS NECESSARY TO ACCOMMODATE HORIZONTAL SEPARATION, PROPOSED AZIMUTHS, AND ANTENNAS CONFIGURATION.

NEW ANTENNA CONFIGURATION

NOTE TO GENERAL CONTRACTOR:

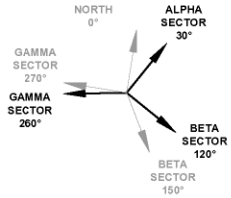
'RF' DESIGN AND EQUIPMENT IS BASED UPON **RFDS ISSUED BY VZW DATED: FEBRUARY 23, 2022 REVISION #1.**

THE CONTRACTOR OF RECORD SHALL CONTACT VZW PRIOR TO ANY AND ALL ORDERING/PURCHASING/INSTALLATION OF EQUIPMENT TO VERIFY THAT THE 'RF' LISTED IN THE DRAWING SET IS CURRENT AND UP TO DATE.

NOTES

1. NORTH SHOWN AS APPROXIMATE.
2. SOME EXISTING & PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
3. ANTENNAS WILL BE CAMOUFLAGED WITH 3M WRAP OR SHERWIN-WILLIAMS PRO INDUSTRIAL DTM ACRYLIC PAINT, AS NEEDED, PER VERIZON WIRELESS AND BUILDING OWNER'S APPROVAL.
4. PRIOR TO COMMENCEMENT OF ANY WORK, PROPOSED ANTENNA INSTALLATION IS PURSUANT TO FINDINGS DICTATED IN STRUCTURAL ANALYSIS. STRUCTURAL ANALYSIS TO VERIFY CAPACITY OF EXISTING STRUCTURE TO ENSURE STRUCTURAL INTEGRITY FOLLOWING INSTALLATION OF PROPOSED ANTENNAS, COAX CABLES AND REQUIRED HARDWARE. COPY OF STRUCTURAL ANALYSIS TO BE SENT TO DESIGN ENGINEER.
5. CONTRACTOR SHALL FIELD VERIFY SCOPE OF WORK, VERIZON WIRELESS ANTENNA MOUNT LOCATION AND ANTENNAS TO BE INSTALLED.
6. CONTRACTOR SHALL NOTIFY ENGINEERS IF FIELD CONDITIONS DIFFER FROM DESIGN.
7. RAD CENTERS MEASURED IN THE FIELD WITH LASER BY HDG. RAD CENTERS MAY NOT MATCH RF ANTENNA DESIGN SHEET.

ANTENNA ORIENTATION



PREPARED FOR: CELLCO PARTNERSHIP D.B.A.

verizon

HUDSON Design Group LLC
45 BEECHWOOD DRIVE
N. ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5586

STATE OF CONNECTICUT
DANIEL P. HAMM
LICENSED PROFESSIONAL ENGINEER
05.27.22

CONSTRUCTION DRAWINGS ARE VALID FOR SIX MONTHS AFTER SIGNATURE IF RECORD'S STAMPED AND SIGNED SUBMITTAL DATE LISTED HEREIN.

CHECKED BY: JX

APPROVED BY: DPH

SUBMITTALS

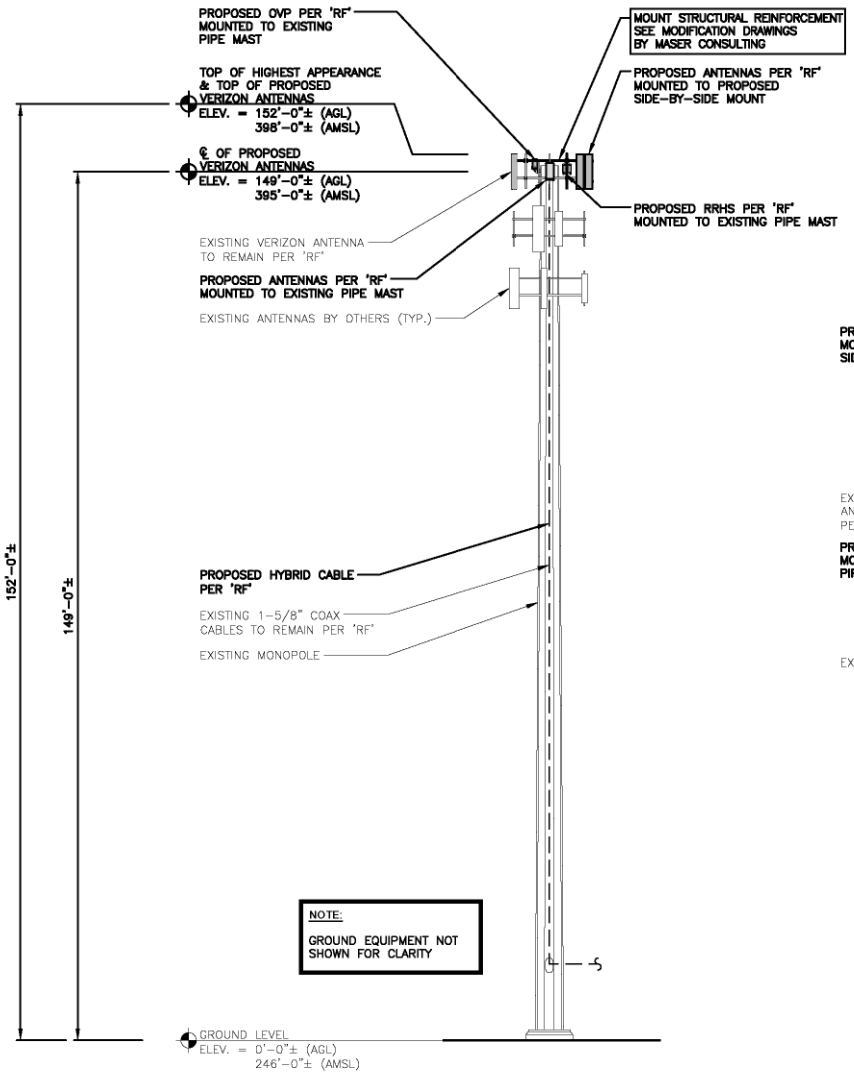
REV.	DATE	DESCRIPTION	BY
1	05/19/22	CHANGED CABLE NUMBERS	SD
0	11/05/21	PRELIM CONSTRUCTION DRAWING	KM

SITE NAME:
GROTON 6 CT

SITE ADDRESS:
1662 GOLD STAR MEMORIAL HWY
GROTON, CT 06340

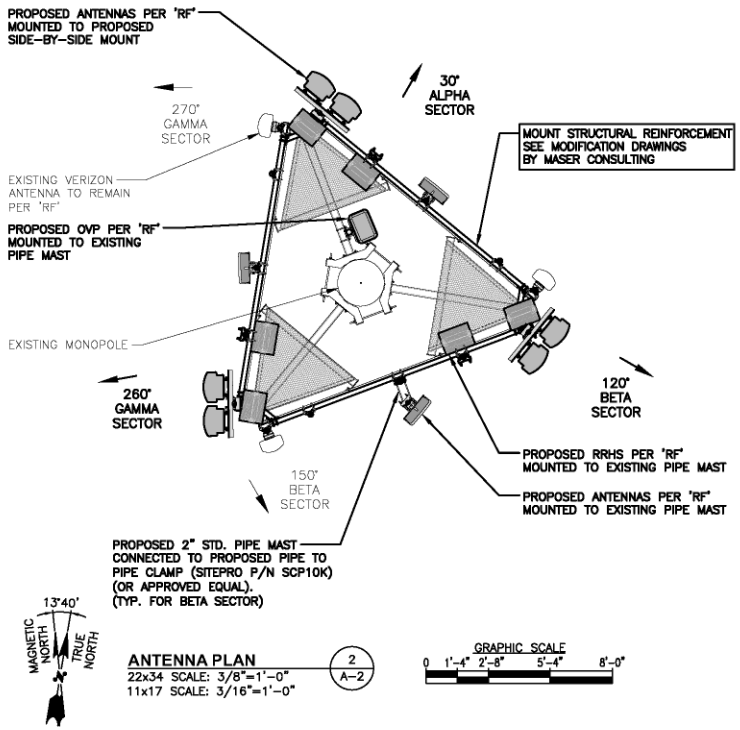
SHEET TITLE
COMPOUND PLAN

SHEET NUMBER
A-1



ELEVATION 1 / A-2
22x34 SCALE: 3/32"=1'-0"
11x17 SCALE: 3/64"=1'-0"

GRAPHIC SCALE
0 5'-4" 10'-8" 21'-4" 32'-0"



ANTENNA PLAN 2 / A-2
22x34 SCALE: 3/8"=1'-0"
11x17 SCALE: 3/16"=1'-0"

GRAPHIC SCALE
0 1'-4" 2'-8" 5'-4" 8'-0"

NOTE:
AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY TOWER ENGINEERING SOLUTIONS, LLC. DATED: MARCH 15, 2022

NOTE:
PROPOSED MT6407-77A ANTENNA SIZE AND WEIGHT ARE NOT TO EXCEED:
DIMENSIONS H35.12"xW16.06"xD5.51"
WEIGHT (INCLUDING INTEGRATED RRH) 87.1 LBS

NOTE:
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING ANTENNA MOUNT TO SUPPORT THE PROPOSED LOADING IS BASED UPON THE LATEST MOUNT ASSESSMENT BY MASER CONSULTING.

PREPARED FOR: CELLCO PARTNERSHIP D.B.A.
verizon

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45 BEECHWOOD DRIVE
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DANIEL P. HAMM
LICENSED PROFESSIONAL ENGINEER
CONSTRUCTION DRAWINGS ARE VALID FOR SIX MONTHS AFTER SIGNATURE IF RECORD IS STAMPED AND SIGNED SUBMITTAL DATE LISTED HEREIN

CHECKED BY: JX
APPROVED BY: DPH

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
1	05/19/22	CHANGED CABLE NUMBERS	SD
0	11/05/21	PRELIM CONSTRUCTION DRAWING	KM

SITE NAME:
GROTON 6 CT

SITE ADDRESS:
1662 GOLD STAR MEMORIAL HWY
GROTON, CT 06340

SHEET TITLE
ELEVATION & ANTENNA PLAN

SHEET NUMBER
A-2

STRUCTURAL NOTES:

1. DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE AND APPLICABLE SUPPLEMENTS, INTERNATIONAL BUILDING CODE, EIA/TIA-222-G STRUCTURAL STANDARDS FOR STEEL ANTENNA, TOWERS AND ANTENNA SUPPORTING STRUCTURES.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND ENGINEER OF RECORD.
3. DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
4. STRUCTURAL STEEL SHALL CONFORM TO ASTM A992 (Fy=50 ksi), MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 UNLESS OTHERWISE INDICATED.
5. STEEL PIPE SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE B, OR ASTM A53 PIPE STEEL BLACK AND HOT-DIPPED ZINC-COATED WELDED AND SEAMLESS TYPE E OR S, GRADE B. PIPE SIZES INDICATED ARE NOMINAL. ACTUAL OUTSIDE DIAMETER IS LARGER.
6. STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS (BEARING TYPE) AND CONFORM TO ASTM A325 TYPE-X "HIGH STRENGTH BOLTS FOR STRUCTURAL JOINTS, INCLUDING SUITABLE NUTS AND PLAIN HARDENED WASHERS". ALL BOLTS SHALL BE 3/4" DIA UON.
7. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
8. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
9. FIELD WELDS, DRILL HOLES, SAW CUTS AND ALL DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED WITH AN ORGANIC ZINC REPAIR PAINT COMPLYING WITH REQUIREMENTS OF ASTM A780. GALVANIZING REPAIR PAINT SHALL HAVE 65 PERCENT ZINC BY WEIGHT, ZIRP BY DUNCAN GALVANIZING, GALVA BRIGHT PREMIUM BY CROWN OR EQUAL. THICKNESS OF APPLIED GALVANIZING REPAIR PAINT SHALL BE NOT NOT LESS THAN 4 COATS (ALLOW TIME TO DRY BETWEEN COATS) WITH A RESULTING COATING THICKNESS REQUIRED BY ASTM A123 OR A153 AS APPLICABLE.
10. CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES". ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND D.I.I. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "STEEL CONSTRUCTION MANUAL". 14TH EDITION.
11. INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NON-CONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE CONSTRUCTION MANAGER APPROVAL.
12. UNISTRUT SHALL BE FORMED STEEL CHANNEL STRUT FRAMING AS MANUFACTURED BY UNISTRUT CORP., WAYNE, MI OR EQUAL. STRUT MEMBERS SHALL BE 1 5/8"x1 5/8"x12GA, UNLESS OTHERWISE NOTED, AND SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
13. EPOXY ANCHOR ASSEMBLY SHALL CONSIST OF STAINLESS STEEL ANCHOR ROD WITH NUTS & WASHERS. AN INTERNALLY THREADED INSERT, A SCREEN TUBE AND A EPOXY ADHESIVE. THE ANCHORING SYSTEM SHALL BE THE HILTI-HIT HY-270 AND OR HY-200 SYSTEMS (AS SPECIFIED IN DWG.) OR ENGINEERS APPROVED EQUAL.
14. EXPANSION BOLTS SHALL CONFORM TO FEDERAL SPECIFICATION FF-S-325, GROUP II, TYPE 4, CLASS I, HILTI KWIK BOLT III OR APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
15. LUMBER SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION AND THE NATIONAL FOREST PRODUCTS ASSOCIATION'S NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. ALL LUMBER SHALL BE PRESSURE TREATED AND SHALL BE STRUCTURAL GRADE NO. 2 OR BETTER.
16. WHERE ROOF PENETRATIONS ARE REQUIRED, THE CONTRACTOR SHALL CONTACT AND COORDINATE RELATED WORK WITH THE BUILDING OWNER AND THE EXISTING ROOF INSTALLER. WORK SHALL BE PERFORMED IN SUCH A MANNER AS TO NOT VOID THE EXISTING ROOF WARRANTY. ROOF SHALL BE WATERTIGHT.
17. ALL FIBERGLASS MEMBERS USED ARE AS MANUFACTURED BY STRONGWELL COMPANY OF BRISTOL, VA 24203. ALL DESIGN CRITERIA FOR THESE MEMBERS IS BASED ON INFORMATION PROVIDED IN THE DESIGN MANUAL. ALL REQUIREMENTS PUBLISHED IN SAID MANUAL MUST BE STRICTLY ADHERED TO.
18. NO MATERIALS TO BE ORDERED AND NO WORK TO BE COMPLETED UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED IN WRITING.
19. SUBCONTRACTOR SHALL FIREPROOF ALL STEEL TO PRE-EXISTING CONDITIONS.

SPECIAL INSPECTIONS (REFERENCE IBC CHAPTER 17):

GENERAL: WHERE APPLICATION IS MADE FOR CONSTRUCTION, THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE INSPECTION CHECKLIST ABOVE.

THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND ENGINEERS OF RECORD INVOLVED IN THE DESIGN OF THE PROJECT ARE PERMITTED TO ACT AS THE APPROVED AGENCY AND THEIR PERSONNEL ARE PERMITTED TO ACT AS THE SPECIAL INSPECTOR FOR THE WORK DESIGNED BY THEM, PROVIDED THOSE PERSONNEL MEET THE QUALIFICATION REQUIREMENTS.

STATEMENT OF SPECIAL INSPECTIONS: THE APPLICANT SHALL SUBMIT A STATEMENT OF SPECIAL INSPECTIONS PREPARED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE IN ACCORDANCE WITH SECTION 107.1 AS A CONDITION FOR ISSUANCE. THIS STATEMENT SHALL BE IN ACCORDANCE WITH SECTION 1705.

REPORT REQUIREMENT: SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS SHALL BE SUBMITTED.

SPECIAL INSPECTION CHECKLIST

BEFORE CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	ENGINEER OF RECORD APPROVED SHOP DRAWINGS [1]
REQUIRED	MATERIAL SPECIFICATIONS REPORT [2]
N/A	FABRICATOR NDE INSPECTION
REQUIRED	PACKING SLIPS [3]
ADDITIONAL TESTING AND INSPECTIONS:	
DURING CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	STEEL INSPECTIONS
N/A	HIGH STRENGTH BOLT INSPECTIONS
N/A	HIGH WIND ZONE INSPECTIONS [4]
N/A	FOUNDATION INSPECTIONS
N/A	CONCRETE COMP. STRENGTH, SLUMP TESTS AND PLACEMENT
N/A	POST INSTALLED ANCHOR VERIFICATION [5]
N/A	GROUT VERIFICATION
N/A	CERTIFIED WELD INSPECTION
N/A	EARTHWORK: LIFT AND DENSITY
N/A	ON SITE COLD GALVANIZING VERIFICATION
N/A	GUY WIRE TENSION REPORT
ADDITIONAL TESTING AND INSPECTIONS:	
AFTER CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	MODIFICATION INSPECTOR REDLINE OR RECORD DRAWINGS [6]
N/A	POST INSTALLED ANCHOR PULL-OUT TESTING
REQUIRED	PHOTOGRAPHS
ADDITIONAL TESTING AND INSPECTIONS:	

NOTES:

1. REQUIRED FOR ANY NEW SHOP FABRICATED FRP OR STEEL.
2. PROVIDED BY MANUFACTURER, REQUIRED IF HIGH STRENGTH BOLTS OR STEEL.
3. PROVIDED BY GENERAL CONTRACTOR; PROOF OF MATERIALS.
4. HIGH WIND ZONE INSPECTION CATB 120MPH OR CAT C,D 110MPH INSPECT FRAMING OF WALLS, ANCHORING, FASTENING SCHEDULE.
5. ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. DESIGN ADHESIVE BOND STRENGTH HAS BEEN BASED ON ACI 355.4 TEMPERATURE CATEGORY B WITH INSTALLATIONS INTO DRY HOLES DRILLED USING A CARBIDE BIT INTO CRACKED CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS. ADHESIVE ANCHORS REQUIRING CERTIFIED INSTALLATIONS SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER ACI 318-11 D.9.2.2. INSTALLATIONS REQUIRING CERTIFIED INSTALLERS SHALL BE INSPECTED PER ACI 318-11 D.8.2.4.
6. AS REQUIRED; FOR ANY FIELD CHANGES TO THE ITEMS IN THIS TABLE.

NOTES:

1. ALL CONNECTIONS TO BE SHOP WELDED & FIELD BOLTED USING 3/4"ø A325-X BOLTS, UNLESS OTHERWISE NOTIFIED.
2. SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED BEFORE ORDERING MATERIAL.
3. SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED PRIOR TO STEEL FABRICATION.
4. VERIFICATION OF EXISTING ROOF CONSTRUCTION IS REQUIRED PRIOR TO THE INSTALLATION OF THE ROOF PLATFORM. ENGINEER OF RECORD IS TO APPROVE EXISTING CONDITIONS IN ORDER TO MOVE FORWARD.
5. CENTERLINE OF PROPOSED STEEL PLATFORM SUPPORT COLUMNS TO BE CENTRALLY LOCATED OVER THE EXISTING BUILDING COLUMNS.
6. EXISTING BRICK MASONRY COLUMNS/BEARING TO BE REPAIRED/REPLACED AT ALL PROPOSED PLATFORM SUPPORT POINTS. ENGINEER OF RECORD TO REVIEW AND APPROVE.

PREPARED FOR: CELLCO PARTNERSHIP D.B.A.

verizon

HUDSON Design Group LLC
45 BEECHWOOD DRIVE
N. ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5586

STATE OF CONNECTICUT
DANIEL P. HAMM
No. 24178
LICENSED PROFESSIONAL ENGINEER
CONSTRUCTION DRAWINGS ARE VALID FOR SIX MONTHS AFTER ENGINEER OF RECORD'S STAMPED AND SIGNED SUBMITTAL DATE LISTED HEREIN

CHECKED BY: JX

APPROVED BY: DPH

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
1	05/19/22	CHANGED CABLE NUMBERS	SD
0	11/05/21	PRELIM CONSTRUCTION DRAWING	KM

SITE NAME:
GROTON 6 CT

SITE ADDRESS:
1662 GOLD STAR MEMORIAL HWY
GROTON, CT 06340

SHEET TITLE
STRUCTURAL NOTES & SPECIAL INSPECTIONS

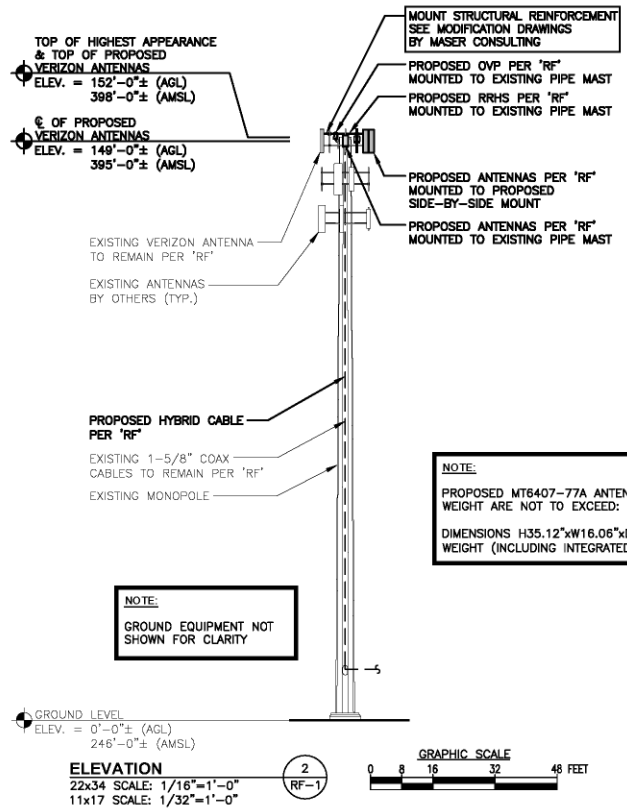
SHEET NUMBER
SN-1

BILL OF MATERIALS

SITE NAME: GROTON 6 CT

ITEM	DESCRIPTION	QTY	LENGTH	COMMENTS
①	**PROPOSED MX06FR0860-02 ANTENNA**	**6**		**MOUNTED TO EXISTING PIPE MAST SIDE-BY-SIDE MOUNT**
②				EMPTY PIPE
③	**PROPOSED MT6407-77A ANTENNA W/ RRH**	**3**		**MOUNTED TO EXISTING PIPE MAST**
④				EMPTY PIPE
⑤	EXISTING LNX-6512DS-A1M ANTENNA	3		MOUNTED TO EXISTING PIPE MAST
⑥	EXISTING 1/2" TOP COAX JUMPERS	18	6 FT.	ROUTE FROM RRH TO ANTENNA
⑥	**PROPOSED 1/2" TOP COAX JUMPERS**	**18**	**6 FT.**	**ROUTE FROM RRH TO ANTENNA**
⑦	**PROPOSED LTE 700/850 RRH**	**3**		**SAMSUNG RRH RF4440D-13A PIPE MOUNTED**
⑧	**PROPOSED PCS/AWS 1900/2100 RRH**	**3**		**SAMSUNG RRH RF4439D-25A PIPE MOUNTED**
⑨	**PROPOSED SAMSUNG FIBER JUMPER CABLES**	**9**	**15 FT.**	**ROUTE FROM OVP TO RRH**
⑨	**PROPOSED SAMSUNG POWER JUMPER CABLES**	**9**	**15 FT.**	**ROUTE FROM OVP TO RRH**
⑩	**PROPOSED UPPER OVP**	**1**		**MOUNTED TO PIPE MAST**
⑪	**PROPOSED 12X24 HYBRID CABLE**	**1**	**230 FT.**	**ROUTE FROM EQUIPMENT TO ANTENNA SECTOR**
⑫	EXISTING 1-5/8" MAIN COAX CABLES	6	230 FT.	ROUTE FROM EQUIPMENT TO ANTENNA SECTOR
⑬	**PROPOSED LOWER OVP**	**1**		**RACK MOUNTED INSIDE SHELTER**

THE ABOVE RF-BOM SHEET IS BASED ON INFORMATION LISTED ON ANTENNA RECOMMENDATION SHEET DATED 02/23/22

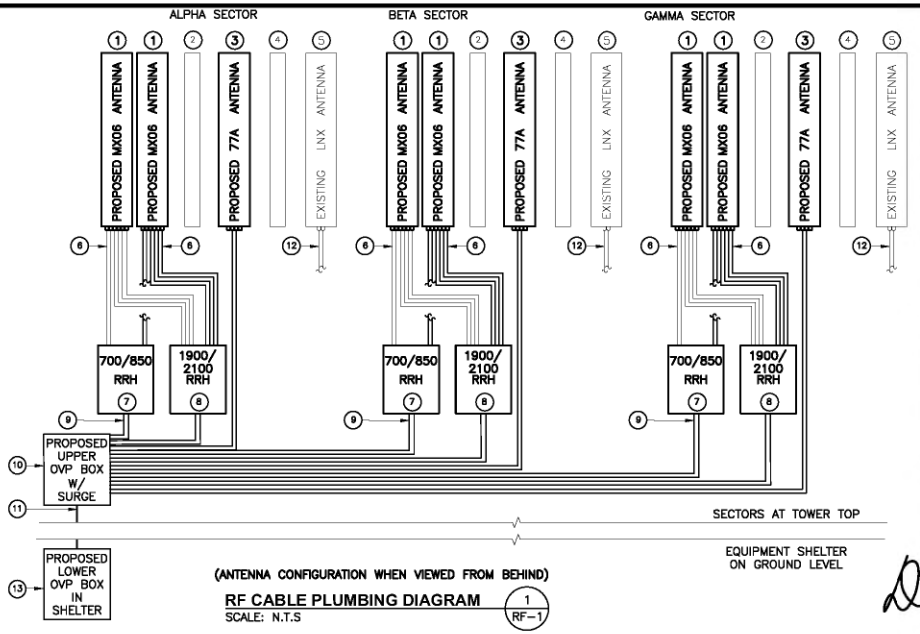


NOTE:
GROUND EQUIPMENT NOT SHOWN FOR CLARITY

NOTE:
PROPOSED MT6407-77A ANTENNA SIZE AND WEIGHT ARE NOT TO EXCEED:
DIMENSIONS H35.12"xW16.06"xD5.51"
WEIGHT (INCLUDING INTEGRATED RRH) 87.1 LBS

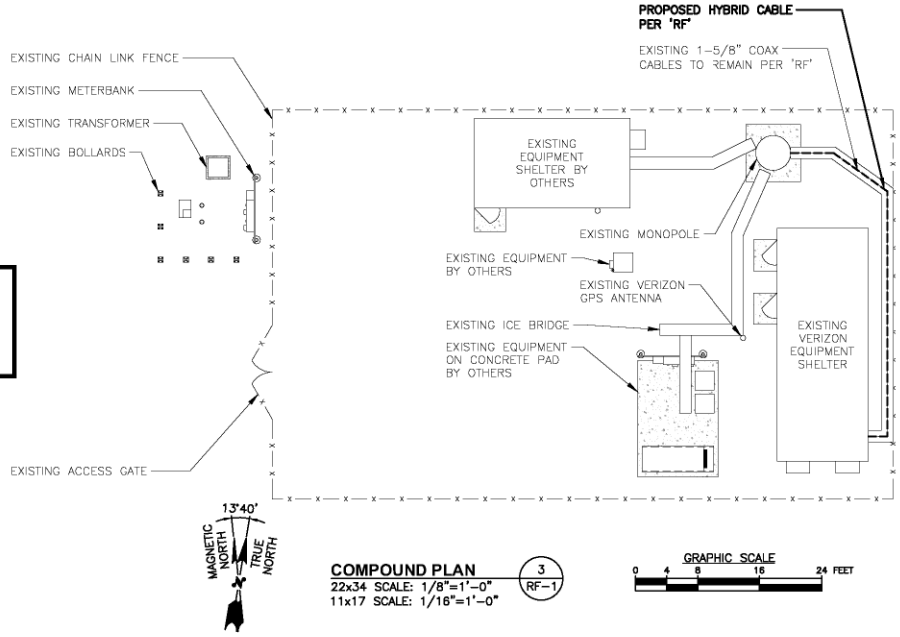
ELEVATION (2 / RF-1)
22x34 SCALE: 1/16"=1'-0"
11x17 SCALE: 1/32"=1'-0"

GRAPHIC SCALE 0 8 16 32 48 FEET



(ANTENNA CONFIGURATION WHEN VIEWED FROM BEHIND)

RF CABLE PLUMBING DIAGRAM (1 / RF-1)
SCALE: N.T.S



COMPOUND PLAN (3 / RF-1)
22x34 SCALE: 1/8"=1'-0"
11x17 SCALE: 1/16"=1'-0"

GRAPHIC SCALE 0 4 8 16 24 FEET

PREPARED FOR: CELLCO PARTNERSHIP D.B.A. verizon

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STATE OF CONNECTICUT DANIEL P. HAMM LICENSED PROFESSIONAL ENGINEER

CHECKED BY: JX

APPROVED BY: DPH

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
1	05/19/22	CHANGED CABLE NUMBERS	SD
0	09/10/21	ISSUED FOR CONSTRUCTION	KM

SITE NAME:
GROTON 6 CT

SITE ADDRESS:
1662 GOLD STAR MEMORIAL HWY
GROTON, CT 06340

SHEET TITLE
RF PLUMBING DIAGRAM & BILL OF MATERIAL

SHEET NUMBER
RF-1

verizon

MOUNT MODIFICATION DRAWINGS
EXISTING 12.50' PLATFORM

TOWER OWNER: SBA COMMUNICATIONS
TOWER OWNER SITE NUMBER: CT13073 /1257146

CARRIER SITE NAME: GROTON 6 CT
CARRIER SITE NUMBER: 535825
FUZE ID: 16486417

1662 GOLD STAR MEMORIAL HWY
GROTON, CONNECTICUT 06340
NEW LONDON COUNTY

LATITUDE: 41.38566666° N
LONGITUDE: 72.01330555° W

DESIGN CRITERIA

WIND LOADS

BASIC WIND SPEED (3 SECOND GUST), V = 127 MPH
EXPOSURE CATEGORY B
TOPOGRAPHIC CATEGORY 1
MEAN BASE ELEVATION (AMSL) = 242.31'

ICE LOADS

ICE WIND SPEED (3 SECOND GUST), V = 50 MPH
ICE THICKNESS = 1.00 IN

SEISMIC LOADS

SEISMIC DESIGN CATEGORY B
SHORT TERM MCER GROUND MOTION, S_S = .188
LONG TERM MCER GROUND MOTION, S_1 = .052

PROJECT INFORMATION

APPLICANT/LESSEE

COMPANY: VERIZON WIRELESS

CLIENT REPRESENTATIVE

COMPANY: VERIZON WIRELESS

PROJECT MANAGER

COMPANY: MASER CONSULTING CONNECTICUT
CONTACT: PETER ALBANO
PHONE: 856-797-0412
E-MAIL: PETER.ALBANO@COLLIERSENGINEERING.COM

CONTRACTOR PMI REQUIREMENTS

PMI LOCATION: HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #: 10099132
VZW LOCATION CODE (PSLC): 535825
ANALYSIS DATE: 9/30/2021

PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

SHEET INDEX

SHEET	DESCRIPTION
ST-1	TITLE SHEET
SBOM-1	BILL OF MATERIALS
SGN-1	GENERAL NOTES
SCF-1	CLIMBING FACILITY DETAIL
SS-1	MODIFICATION DETAILS
SS-2	MOUNT PHOTOS
	SPECIFICATION SHEETS

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REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	9/30/2021	ISSUED FOR CONSTRUCTION	AS	DH

STATE OF CONNECTICUT
DEJIAN XU
No. 33733
LICENSED PROFESSIONAL ENGINEER
09/30/2021

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

SITE NAME:
GROTON 6 CT
535825
1662 GOLD STAR MEMORIAL HWY
GROTON, CONNECTICUT 06340
NEW LONDON COUNTY

MT. LAUREL OFFICE
2000 Atlantic Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE: TITLE SHEET
SHEET NUMBER: ST-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

BILL OF MATERIALS

SECTION 1 - VZWSMART KITS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
1	VZWSMART	VZWSMART-PLK1	SUPPORT RAIL KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1	504	504
3		VZWSMART-MSK1	CROSSOVER PLATE		14	42
1		VZSMART-P40-238X072	STANDARD PIPE		22	22
3		VZWSMART-P40-278X072	STANDARD PIPE		34.8	104.4

SECTION 2 - OTHER REQUIRED PARTS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
3	SITE PRO 1	SP219-H	PIPE MOUNT KIT			
1	SITE PRO 1	SCP10K	PIPE TO PIPE CLAMP SET	1-1/2" TO 5" PIPE 1/2" THICK CLAMP	13.7	13.7
					TOTAL:	686.1

VZWSMART KITS - APPROVED VENDORS

COMMSCOPE	
CONTACT	SALVADOR ANGUIANO
PHONE	(817) 304-7492
EMAIL	SALVADOR.ANGUIANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM
METROSITE FABRICATORS, LLC	
CONTACT	KENT RAMEY
PHONE	(706) 335-7045 (O), (706) 982-9788 (M)
EMAIL	KENT@METROSITELLC.COM
WEBSITE	METROSITEFABRICATORS.COM
PERFECTVISION	
CONTACT	WIRELESS SALES
PHONE	(844) 887-6723
EMAIL	WWW.PERFECT-VISION.COM
WEBSITE	WIRELESSSALES@PERFECT-VISION.COM
SABRE INDUSTRIES, INC.	
CONTACT	ANGIE WELCH
PHONE	(866) 428-6937
EMAIL	AKWELCH@SABREINDUSTRIES.COM
WEBSITE	WWW.SABRESITESOLUTIONS.COM
SITE PRO 1	
CONTACT	PAULA BOSWELL
PHONE	(972) 236-9843
EMAIL	PAULA.BOSWELL@VALMONT.COM
WEBSITE	WWW.SITEPRO1.COM

NOTES:

1. THE MANUFACTURERS LISTED ARE THE APPROVED VENDORS FOR THE VZW MOUNT KITS. EACH MANUFACTURER WILL BE AWARE OF WHICH KITS HAVE BEEN THROUGH THE VZW APPROVAL PROCESS AND THEY ARE IN TURN APPROVED TO SELL. PLEASE NOTE THAT THE MATERIAL UTILIZED ON THE MOUNT MODIFICATIONS WILL BE REVIEWED AS A PART OF THE DESKTOP PMI COMPLETED BY THE SMART TOOL VENDOR. IT WILL BE REQUIRED THAT THE VZW KITS SPECIFIED ARE UTILIZED IN THE MODIFICATIONS.
2. ALL MATERIALS REQUIRED FOR THE DESIGNED MODIFICATIONS BUT NOT LISTED IN THIS SHEET ARE ASSUMED TO BE PROVIDED BY THE CONTRACTOR.

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SCALE	JOB NUMBER
AS SHOWN	21780165A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
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STATE OF CONNECTICUT
DEJIAN XU
No. 33733
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09/30/2021

SITE NAME:

GROTON 6 CT
535825

1662 GOLD STAR MEMORIAL HWY
GROTON, CONNECTICUT 06340
NEW LONDON COUNTY

MT. LAUREL OFFICE
2100 Multatic Drive
Suite 110
Mount Laurel, NJ 08054
Phone: 856.797.1412
Fax: 856.722.1120

SHEET TITLE
BILL OF MATERIALS

SHEET NUMBER
SBOM-1

PROJECT NOTES

1. SEE MODIFICATION NOTES

2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES OR OTHER PUBLIC/GOVERNING AUTHORITIES.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.

4. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE AS A RESULT OF CONSTRUCTION OF THIS FACILITY AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.

6. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

7. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CONSTRUCTION DRAWINGS.

8. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.

9. SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY POTENTIALLY DANGEROUS EXPOSURE LEVELS.

10. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.

11. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).

GENERAL NOTES

1. THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE TELECOMMUNICATIONS INDUSTRY STANDARD TIA-222-H. MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES.

2. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING STRUCTURES. ANY DAMAGE TO EXISTING STRUCTURES AS A RESULT OF THE CONTRACTOR'S WORK OR FROM DAMAGE DUE TO OTHER CAUSES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.

3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK, ORDERING MATERIAL, AND PREPARING OF SHOP DRAWINGS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. IF THE CONTRACTOR DISCOVERS ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS, OR ANY CONDITIONS THAT WOULD INTERFERE WITH THE INSTALLATION OF THE MODIFICATIONS, NOTIFY THE ENGINEER IMMEDIATELY.

4. IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE.

5. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.

6. 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/TIA-322 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSI/TIA-322 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.

7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS IN ACCORDANCE WITH APPLICABLE SAFETY CODES.

8. WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 30-MPH). THE STRUCTURE SHOWN ON THE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING ERECTION. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT, SHORING, BRACING AND ANY OTHER STRUCTURAL SYSTEMS AS REQUIRED TO RESIST ALL FORCES THAT MAY OCCUR DURING HANDLING AND ERECTION UNTIL THE STRUCTURE IS FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS REQUIRED DURING CONSTRUCTION SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.

9. ALL INSTALLATIONS PERFORMED ON THIS STRUCTURE SHALL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE STANDARD FOR INSTALLATION, ALTERATION AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS, ANSI/TIA-322.

10. CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER. ALL FENCE, STONE, GEOFABRIC, GROUNDING, AND SURROUNDING GRADE SHALL BE REPLACED AND REPAIRED AS REQUIRED TO ACHIEVE OWNER APPROVAL. POSITIVE DRAINAGE AWAY FROM TOWER SITE SHALL BE MAINTAINED.

11. CONNECTIONS BETWEEN ITEMS SUPPORTED BY THE STRUCTURE AND THE STRUCTURE NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH CONNECTIONS SHALL BE DESIGNED, COORDINATED AND INSPECTED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. SUBMIT SIGNED AND SEALED CALCULATIONS DURING SHOP DRAWING REVIEW.

12. DO NOT SCALE DRAWINGS.

13. DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.

14. ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDING BUT NOT LIMITED TO ALTERED SIZE AND/OR STRENGTHS, MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING.

15. THE MOUNT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

STRUCTURAL STEEL

1. DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.
   a. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
   b. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS
   c. AISC CODE OF STANDARD PRACTICE

2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN:

CHANNELS, ANGLES, PLATES, ETC.	ASTM A36 (GR 36)
STEEL PIPE	ASTM A53 (GR 35)
BOLTS	ASTM A325
NUTS	ASTM A563
LOCK WASHERS	LOCKING STRUCTURAL GRADE

3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.

4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
   a. SUBMIT SHOP DRAWINGS TO
      PETER.ALBANO@COLLIERSENGINEERING.COM
   b. PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.

5. DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.

6. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.

7. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.

8. CONTRACTOR SHALL PROTECT CUT ENDS OF ALL FIELD-CUT STEEL WITH TWO (2) COATS OF COLD GALVANIZATION (ZINGA OR ZINC COTE).

9. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.

10. WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.

11. FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.

12. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.

13. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.

14. ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).

15. ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

WELDING NOTES

1. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AWS D1.0 (LATEST EDITION). THIS SHALL INCLUDE A CERTIFIED WELD INSPECTION (CWI) FOR ACCEPTANCE OR REJECTION OF ALL WELDING OPERATIONS, PRE, DURING, AND POST INSTALLATION, USING THE ACCEPTANCE CRITERIA OF AWS D1.1.

2. CONTRACTOR IS RESPONSIBLE FOR COMMISSIONING A THIRD PARTY CERTIFIED WELD INSPECTOR (CWI) THROUGHOUT THE ENTIRETY OF THE PROJECT. A PASSING CWI REPORT SHALL BE PROVIDED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.

3. THE CERTIFIED WELD INSPECTOR SHALL INDICATE, IN A WRITTEN CWI REPORT, THAT ALL WELDING OPERATIONS PRE, DURING, AND POST INSTALLATION WERE CONDUCTED IN ACCORDANCE WITH AWS D1.1 WITH PHOTOGRAPHS AND DOCUMENTATION SUPPORTING THE ACCEPTANCE OR REJECTION OF ALL WELDING. ALL CWI WELD INSPECTION DOCUMENTATION AND PHOTOS SHALL BE SUBMITTED DURING THE PMI.

4. IN CASES WHERE A WELD IS SPECIFIED BETWEEN TWO MEMBERS IN WHICH THERE IS A GAP IN BETWEEN, THE WELD IS TO BE BUILT-UP SUCH THAT THE SIZE OF WELD ON THE MEMBER IS EQUAL TO THAT SHOWN IN THE DRAWINGS.

5. OXY FUEL GAS WELDING OR BRAZING IS STRICTLY PROHIBITED. SPECIFICALLY, NO TORCH CUTTING IS PERMITTED ON SITE. ALL HOLES SHALL BE CUT WITH A GRINDER.

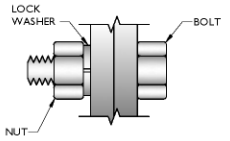
6. CONTRACTOR SHALL EXERCISE CAUTION WHEN WELDING A GALVANIZED SURFACE

BOLT SCHEDULE (IN.)

BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE DISTANCE	SPACING
1/2	9/16	9/16 x 11/16	7/8	1 1/2
5/8	11/16	11/16 x 7/8	1 1/8	1 7/8
3/4	13/16	13/16 x 1	1 1/4	2 1/4
7/8	15/16	15/16 x 1 1/8	1 1/2	2 5/8
1	1 1/16	1 1/16 x 1 5/16	1 3/4	3

WORKABLE GAGES (IN.)

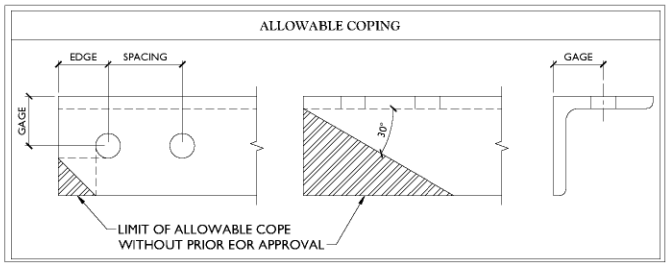
LEG	GAGE
4	2 1/2
3 1/2	2
3	1 3/4
2 1/2	1 3/8
2	1 1/8



TYP. BOLT ASSEMBLY

NOTES:

1. ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
2. THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENTS.
3. SHORT SLOT HOLES SHALL ONLY BE USED WHEN DEPICTED IN THE DRAWINGS
4. MATCH EXISTING GAGES WHEN APPLICABLE, UNLESS MINIMUM EDGE DISTANCES ARE COMPROMISED.



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SCALE	JOB NUMBER
AS SHOWN	21780165A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	9/09/21	ISSUED FOR CONSTRUCTION	AE	DH

STATE OF CONNECTICUT · DEJIAN XU · No. 33733 · LICENSED PROFESSIONAL ENGINEER · 09/30/2021

SITE NAME:

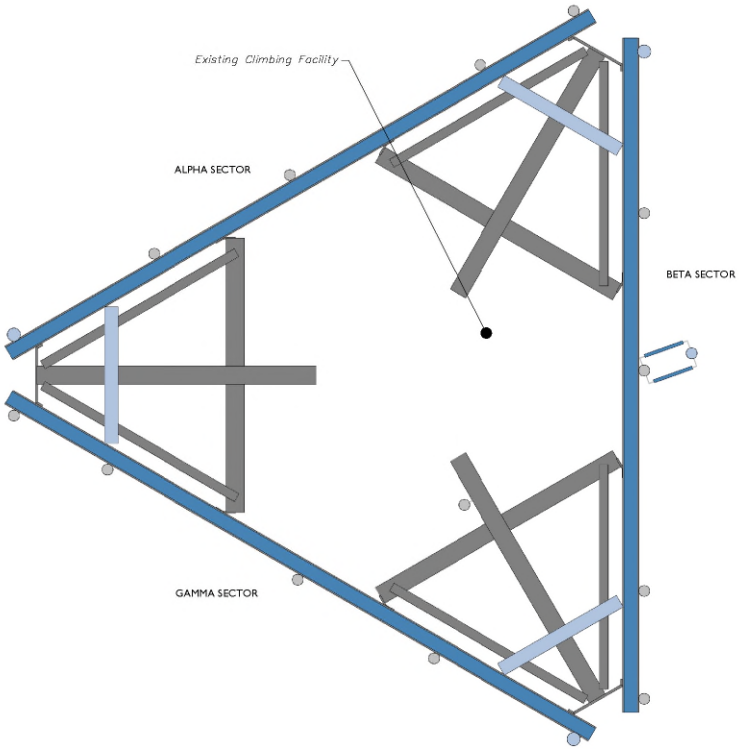
GROTON 6 CT
535825
1662 GOLD STAR MEMORIAL HWY
GROTON, CONNECTICUT 06340
NEW LONDON COUNTY

MT. LAUREL OFFICE
2000 Midlantic Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

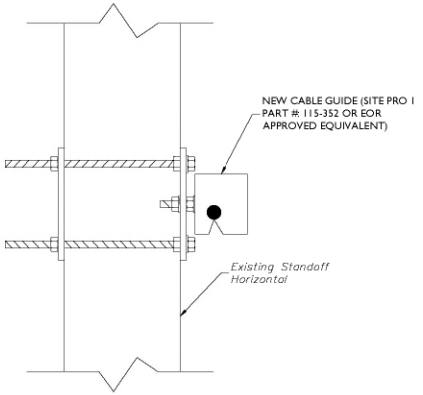
SHEET TITLE
MODIFICATION NOTES

SHEET NUMBER
SGN-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



1 CLIMBING FACILITY LOCATION
SCALE : N.T.S.



2 CABLE GUIDE COLLAR ATTACHMENT - PLAN VIEW
SCALE : N.T.S.

STRUCTURAL NOTES:

1. PER THE MOUNT MAPPING COMPLETED BY HUDSON DESIGN GROUP, LLC ON 6/8/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (147'-6") ARE IN GOOD CONDITION. MASER DOES NOT WARRANT THIS INFORMATION.

2. INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.

CLIMBING FACILITY PHOTO

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REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	9/30/2021	ISSUED FOR CONSTRUCTION	AS	DH

STATE OF CONNECTICUT
DEJIAN XU
No. 33733
LICENSED PROFESSIONAL ENGINEER
09/30/2021

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SITE NAME:

GROTON 6 CT
535825

1662 GOLD STAR MEMORIAL HWY
GROTON, CONNECTICUT 06340
NEW LONDON COUNTY

MT. LAUREL OFFICE
2000 Midlantic Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.1412
Fax: 856.722.1120

SHEET TITLE
CLIMBING FACILITY DETAIL

SHEET NUMBER
SCF-1

LEGEND:

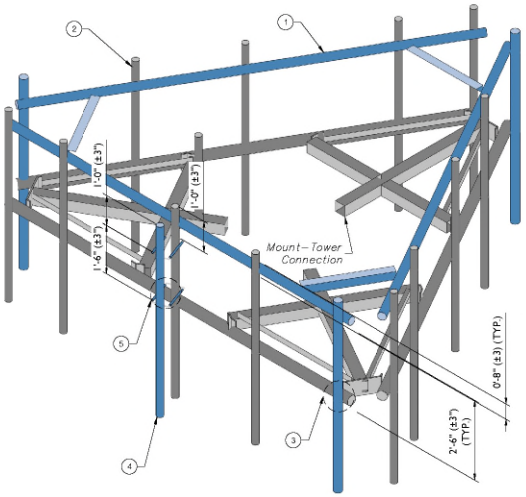
- PROPOSED
- RELOCATED
- EXISTING

MOUNT MODIFICATION SCHEDULE

NO.	ELEVATION	QUANTITY	DESCRIPTION	NOTES
1	147'-6"	1	PROPOSED SUPPORT RAIL KIT (PART #: VZWSMART-PLK1)	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1
2		3	72" LONG, P2 1/2 STD MOUNT PIPE (VZWSMART-P40-278X072)	ATTACH TO TOP PROPOSED SUPPORT RAIL WITH VZWSMART MSK1 CROSSOVER KITS.
3		3	PIPE MOUNT KIT	CONNECT NEW MOUNT PIPE TO EXISTING BOTTOM FACE HORIZONTAL WITH NEW CROSSOVER PLATES (PART #: SITE PRO 1 - SP219-H, OR EOR APPROVED EQUAL).
4		1	72" LONG, P2 STD MOUNT PIPE (VZWSMART-P40-238X072)	CONNECT NEW MOUNT PIPE TO EXISTING MOUNT PIPE WITH PIPE TO PIPE CLAMP SET (PART # DCP18K OR EOR EQUIVALENT APPROVED).
5		1	PIPE TO PIPE CLAMP SET	UNBRACED LENGTH NOT TO EXCEED 9".

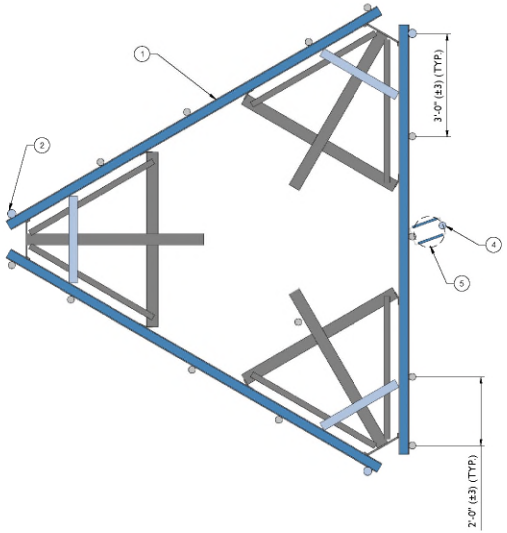
NOTES.

MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.



1 PROPOSED ISOMETRIC VIEW

SCALE : N.T.S.



2 PROPOSED PLANVIEW (TYP. ALL SECTORS)

SCALE : N.T.S.

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SHEET TITLE
MODIFICATION DETAILS

SHEET NUMBER
SS-1

MOUNT PHOTO 1

MOUNT PHOTO 2

MOUNT PHOTO 3

MOUNT PHOTO 4

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SCALE	JOB NUMBER
AS SHOWN	21780165A

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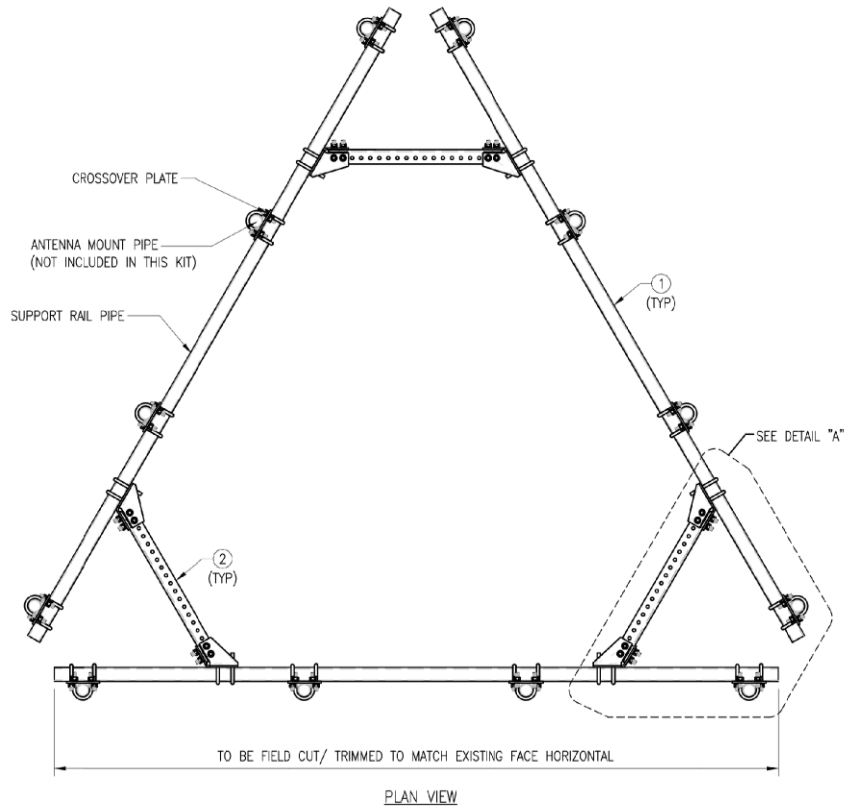
NEW LONDON COUNTY

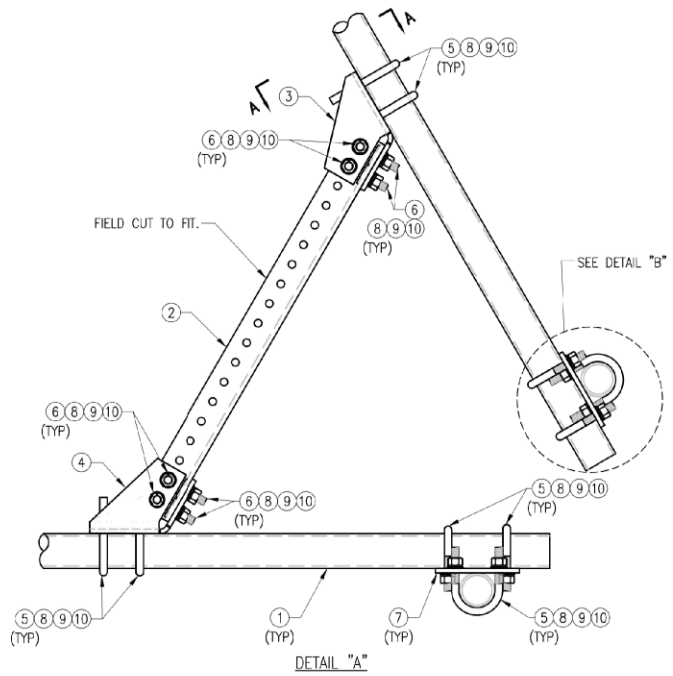
MT. LAUREL OFFICE
2150 Hurley Drive
Suite 110
Mount Laurel, NJ 08054
Phone: 856.797.1412
Fax: 856.722.1120

SHEET TITLE
MOUNT PHOTOS

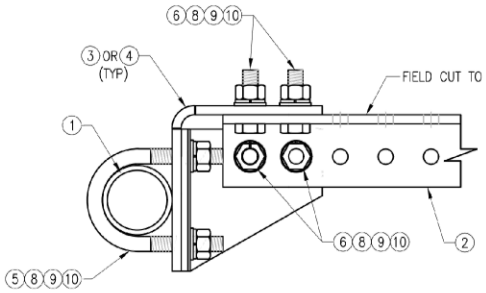
SHEET NUMBER
SS-2



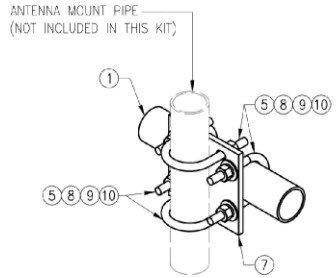
PLAN VIEW



DETAIL "A"



SECTION "A-A"



DETAIL "B"

NOTES:
1. HOT-DIPPED GALVANIZED PER ASTM A123.

VZW SMART-PLK1 (SUPPORT RAIL KIT)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	PST2875-12.5	2.5" PST (2.875" O.D. X 0.203" THK.) X 12'-6" A53 GR-B	PLK1-F1	292
2	3	L33375-3	L 3" X 3" X 3/8" X 3'-0" A36	PLK1-F1	66
3	3	CBP-L	CORNER BENT PLATE BRACKET	PLK1-F2	28
4	3	CBP-R	CORNER BENT PLATE BRACKET	PLK1-F2	28
5	60	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	82
6	24	---	BOLT 5/8" X 2" A325	---	9
7	12	PL375-857	PL 3/8" X 8 1/2" X 7'-0" A36	PLK1-F3	77
8	144	FW-625	5/8" HDG USS FLAT WASHER	---	12
9	144	LW-625	5/8" HDG LOCK WASHER	---	3
10	144	NUT-625	5/8" HDG HEX NUT	---	17
				GALVANIZED WT	504

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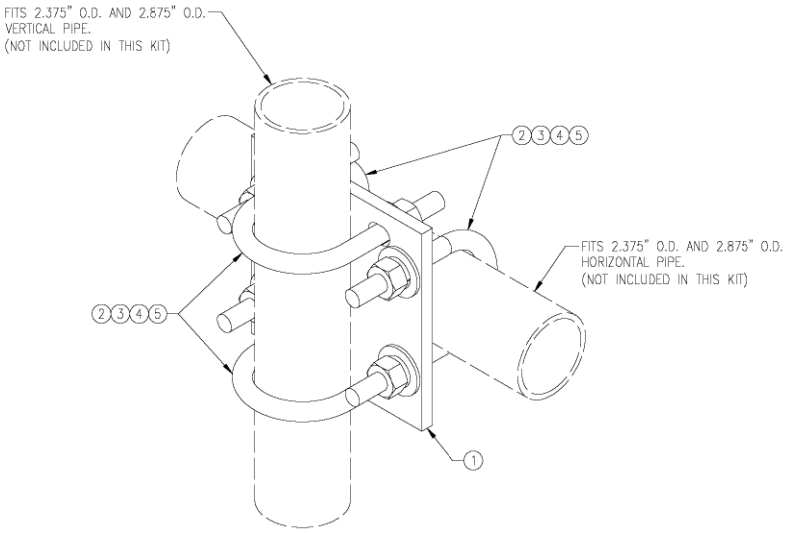
DRAWN BY: H.R | CHECKED BY: HMA

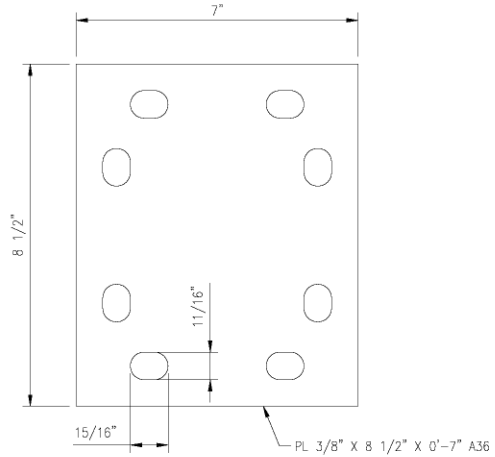
REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	H.R	05/08/20

SHEET TITLE:
VZWSMART-PLK1
SUPPORT RAIL KIT

SHEET NUMBER: VZWSMART-PLK1

REV #: 0





PL375-857

VZWSMART-MSK1 (CROSSOVER PLATE)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PL375-857	PL 3/8" X 8 1/2" X 0'-7" A36	MSK1-F1	6
2	4	MSO2-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	5
3	8	FW-625	5/8" HDG USS FLAT WASHER	---	1
4	8	LW-625	5/8" HDG LOCK WASHER	---	0
5	8	NUT-625	5/8" HDG HEX NUT	---	1
				GALVANIZED WT	14

NOTES:
1. HOT-DIPPED GALVANIZED PER ASTM A123.

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DRAWN BY: H.R	CHECKED BY: HMA

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	H.R	05/08/20

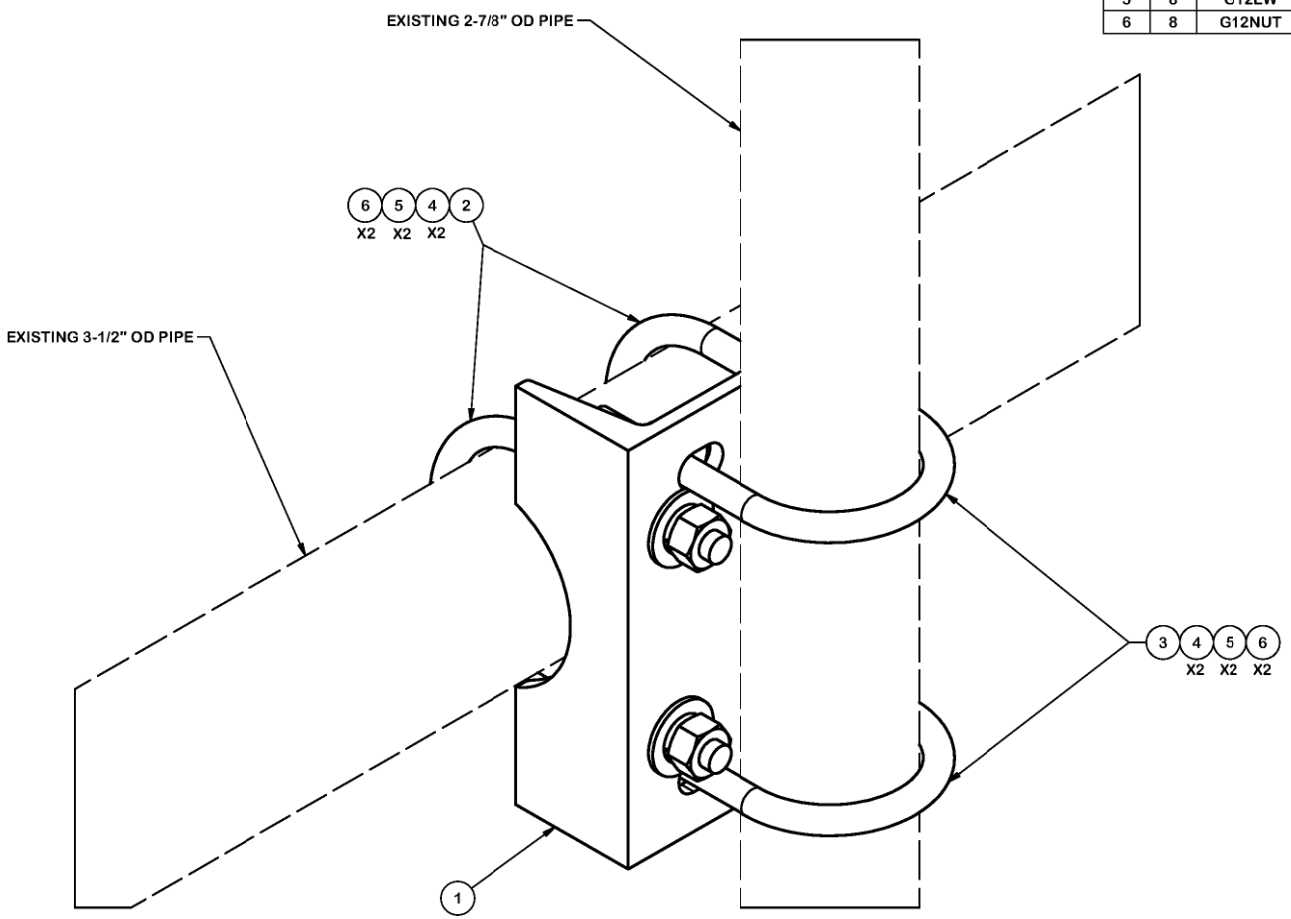
SHEET TITLE:

VZWSMART-MSK1
CROSSOVER PLATE

SHEET NUMBER: VZWSMART-MSK1

REV #: 0

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-SP219	SMALL SUPPORT CROSS PLATE	8 1/4 in	8.61	8.61
2	2	X-UB1306	1/2" X 3-5/8" X 6" X 3" U-BOLT (HDG.)		0.66	1.31
3	2	X-UB1300	1/2" X 3" X 5" X 2" U-BOLT (HDG.)		0.66	1.31
4	8	G12FW	1/2" HDG USS FLATWASHER		0.03	0.27
5	8	G12LW	1/2" HDG LOCKWASHER		0.01	0.11
6	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.57
					TOTAL WT. #	12.61



TOLERANCE NOTES

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

REVISION HISTORY				
REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
A	REDRAWN IN INV, UPDATED VIEWS & TABLE		KC8	8-21-2012

DESCRIPTION
2-7/8" TO 3-1/2"
PIPE MOUNT ASSEMBLY

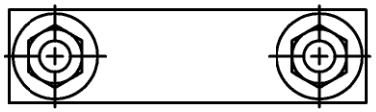
SITE PRO 1 — A valmont COMPANY

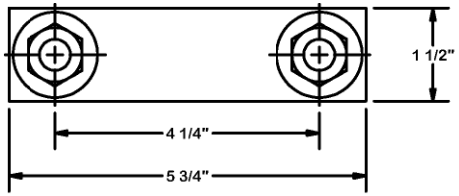
Engineering Support Team:
1-888-753-7446

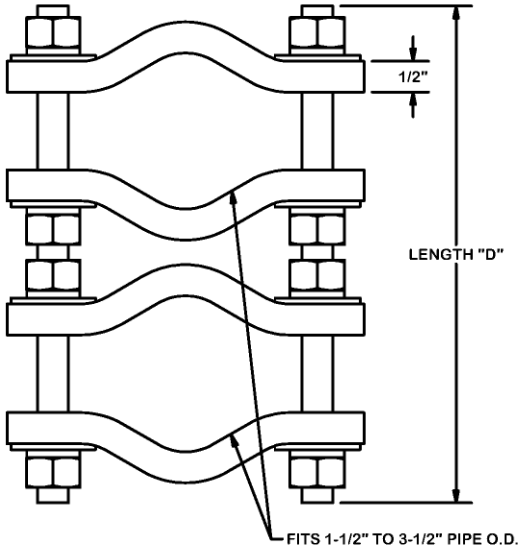
Locations:
New York, NY
Atlanta, GA
Los Angeles, CA
Plymouth, IN
Salem, OR
Dallas, TX

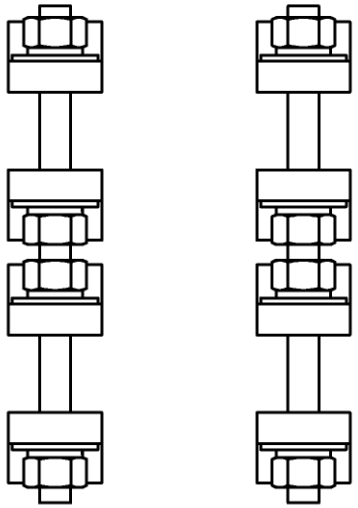
CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.	PAGE
4518	BMC 6/3/2009		SP219-H	1 OF 1

CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
81	01	CUSTOMER	CEK 2/18/2013	SP219-H



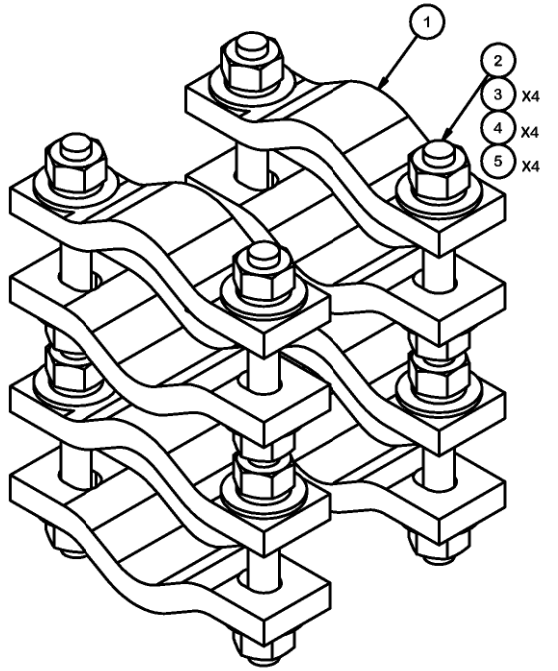






PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	8	SCP	CLAMP HALF, 1/2" THICK, 5-7/8"		1.29	10.34
2	B	C	1/2" THREADED ROD	D	E	F
3	16	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	1.15
4	16	G12LW	1/2" HDG LOCKWASHER		0.01	0.22
5	16	G12FW	1/2" HDG USS FLATWASHER		0.03	0.55

VARIABLE PARTS TABLE						
ASSEMBLY "A"	QTY "B"	PART "C"	LENGTH "D"	UNIT WT. "E"	NET WT. "F"	TOTAL WEIGHT
SCP08K	4	G12R-8	8"	.45	1.78	13.23
SCP10K	4	G12R-10	10"	.56	2.23	13.68



TOLERANCE NOTES

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

DESCRIPTION
PIPE TO PIPE CLAMP SET
1-1/2" TO 3-1/2" PIPE
1/2" THICK CLAMP

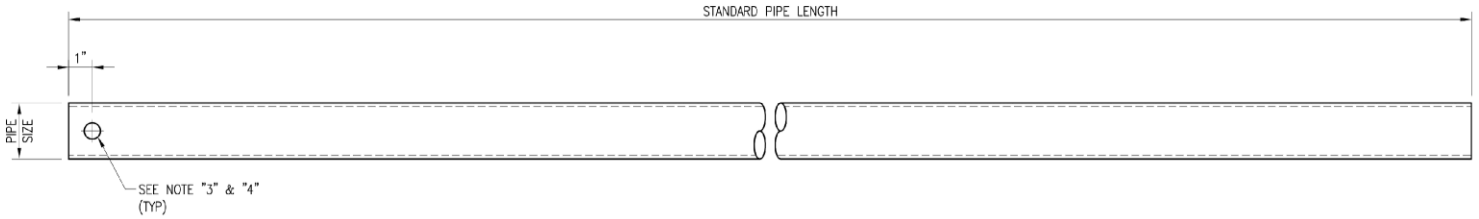
SITE PRO 1
A valmont COMPANY

Engineering Support Team: 1-888-753-7446

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

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.
	KC8 8/21/2012		SEE ASSEMBLY "A"

CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
81	01	CUSTOMER	CEK 2/18/2013	SCPxxK



VZWSMART Standard Pipe		
VZWSMART Number	Size	Length
P40-238X048	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	48"
P40-238X072	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	72"
P40-238X096	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	96"
P40-238X120	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	120"
P40-238X126	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	126"
P40-238X150	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	150"
P40-238X174	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	174"
P40-278X048	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	48"
P40-278X072	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	72"
P40-278X096	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	96"
P40-278X120	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	120"
P40-278X126	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	126"
P40-278X150	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	150"
P40-278X174	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	174"
P40-312X048	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	48"
P40-312X072	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	72"
P40-312X126	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	126"
P40-312X150	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	150"
P40-312X174	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	174"

NOTE:
APPROVED SMART KIT VENDORS ARE ALLOWED TO SUBSTITUTE AT THEIR DISCRETION PIPES LISTED ON THIS PAGE FOR CUSTOM LENGTH COMPONENTS OF MATCHING SIZE. SUBSTITUTIONS SHALL MEET THE ORIGINAL STRUCTURAL INTENT.

NOTES:
1. ALL PIPE GRADE A53-B OR BETTER.
2. HOT-DIPPED GALVANIZED PER ASTM A123.
3. ALL HOLES ARE 11/16" DIA. U.N.O
4. HOLES MAY OR MAY NOT BE PRESENT, DEPEND UPON MANUFACTURE DISCRETION.
5. ALL FIELD CUT AND DRILLED SURFACES SHALL BE REPAIRED WITH A MINIMUM OF TWO COATS OF ZINGA OR ZINC COTE PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.

VzW SMART Tool© Vendor

verizon

DRAWN BY: BT | CHECKED BY: HMA/KW

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	BT	08/04/21

SHEET TITLE:

VZWSMART STANDARD PIPE

SHEET NUMBER: VZWSMART-PIPE

REV #: 0

SAMSUNG

700/850MHZ MACRO RADIO

DUAL-BAND AND HIGH POWER FOR MACRO COVERAGE

Samsung's future proof dual-band radio is designed to help effectively increase the coverage areas in wireless networks. This 700/850MHz 4T4R dual-band radio has 4Tx/4Rx to 2Tx/2Rx RF chains options and a total output power of 320W, making it ideal for macro sites.

Model Code	RF4440d-13A

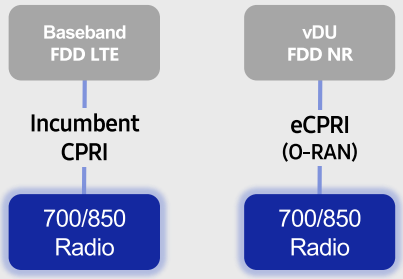
Homepage
samsungnetworks.com

Youtube
www.youtube.com/samsung5g

Points of Differentiation

Continuous Migration

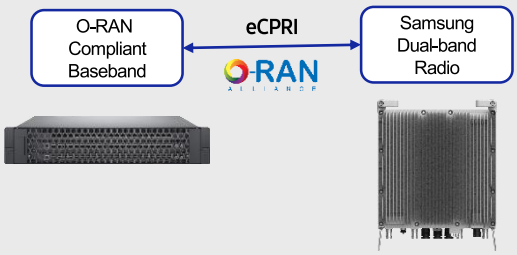
Samsung's 700/850MHz macro radio can support each incumbent CPRI interface as well as an advanced eCPRI interface. This feature provides installable options for both legacy LTE networks and added NR networks.



O-RAN Compliant

A standardized O-RAN radio can help when implementing cost-effective networks because it is capable of sending more data without compromising additional investments.

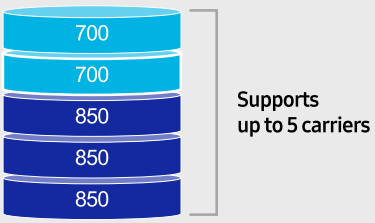
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



Optimum Spectrum Utilization

The number of required carriers varies according to site (region). The ability to support many carriers is essential for using all frequencies that the operator has available.

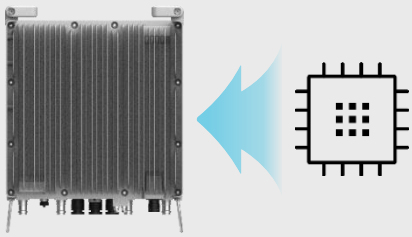
The new 700/850MHz dual-band radio can support up to 2 carriers in the B13 (700MHz) band and 3 carriers in the B5 (850MHz) band, respectively.



Secured Integrity

Access to sensitive data is allowed only to authorized software.

The Samsung radio's CPU can protect root of trust, which is credential information to verify SW integrity, and secure storage provides access control to sensitive data by using dedicated hardware (TPM).



Technical Specifications

Item	Specification
Tech	LTE / NR
Brand	B13(700MHz), B5(850MHz)
Frequency Band	DL: 746 – 756MHz, UL: 777 – 787MHz DL: 869 – 894MHz, UL: 824 – 849MHz
RF Power	(B13) 4 × 40W or 2 × 60W (B5) 4 × 40W or 2 × 60W
IBW/OBW	(B13) 10MHz / 10MHz (B5) 25MHz / 25MHz
Installation	Pole, Wall
Size/ Weight	14.96 x 14.96 x 9.05inch (33.2L) / 70.33 lb

SAMSUNG

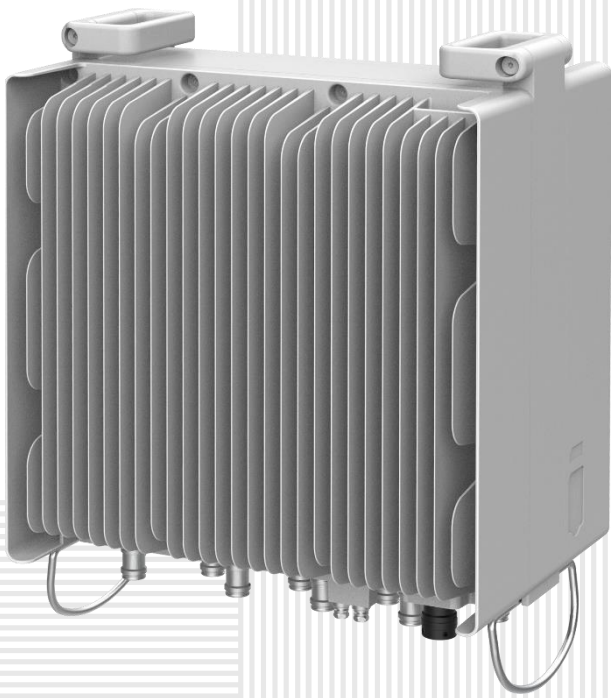
AWS/PCS MACRO RADIO

DUAL-BAND AND HIGH POWER FOR MACRO COVERAGE

Samsung's future proof dual-band radio is designed to help effectively increase the coverage areas in wireless networks. This AWS/PCS 4T4R dual-band radio has 4Tx/4Rx to 2Tx/2Rx RF chains options and a total output power of 320W, making it ideal for macro sites.

57196

Model Code	RF4439d-25A



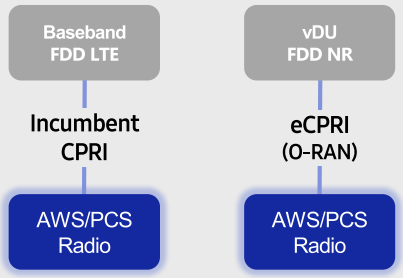
Homepage
samsungnetworks.com

Youtube
www.youtube.com/samsung5g

Points of Differentiation

Continuous Migration

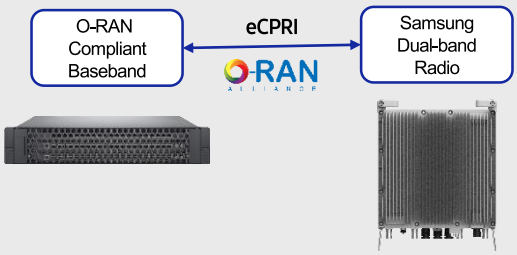
Samsung's AWS/PCS macro radio can support each incumbent CPRI interface as well as advanced eCPRI interfaces. This feature provides installable options for both legacy LTE networks and added NR networks.



O-RAN Compliant

A standardized O-RAN radio can help in implementing cost-effective networks, which are capable of sending more data without compromising additional investments.

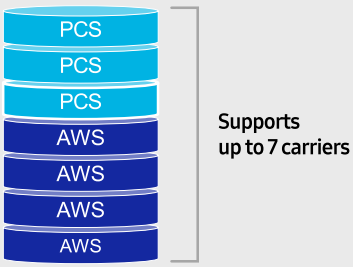
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



Optimum Spectrum Utilization

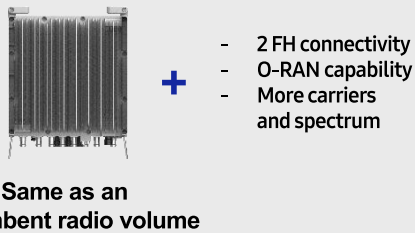
The number of required carriers varies according to site (region). Supporting many carriers is essential for using all frequencies that the operator has available.

The new AWS/PCS dual-band radio can support up to 3 carriers in the PCS (1.9GHz) band and 4 carriers in the AWS (2.1GHz) band, respectively.



Brand New Features in a Compact Size

Samsung's AWS/PCS macro radio offers several features, such as dual connectivity for baseband for both CDU and vDU, O-RAN capability, more carriers and an enlarged PCS spectrum, combined into an incumbent radio volume of 36.8L.



Technical Specifications

Item	Specification
Tech	LTE / NR
Brand	B25(PCS), B66(AWS)
Frequency Band	DL: 1930 – 1995MHz, UL: 1850 – 1915MHz DL: 2110 – 2200MHz, UL: 1710 – 1780MHz
RF Power	(B25) 4 × 40W or 2 × 60W (B66) 4 × 60W or 2 × 80W
IBW/OBW	(B25) 65MHz / 30MHz (B66) DL 90MHz, UL 70MHz / 60MHz
Installation	Pole, Wall
Size/ Weight	14.96 x 14.96 x 10.04inch (36.8L) / 74.7lb

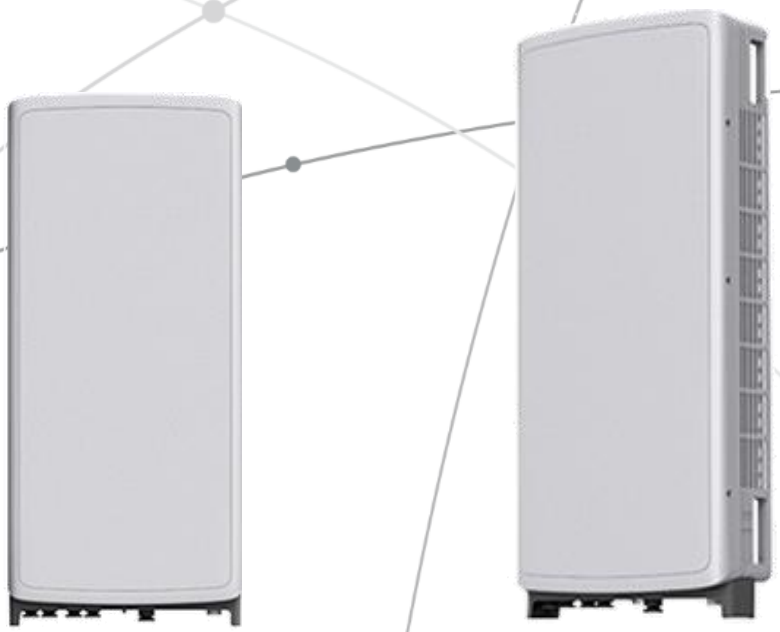
SAMSUNG

SAMSUNG C-Band 64T64R Massive MIMO Radio

for High Capacity and Wide Coverage

Samsung C-Band 64T64R Massive MIMO Radio enables mobile operators to increase coverage range, boost data speeds and ultimately offer enriched 5G experiences to users in the U.S..

Model Code : MT6407-77A

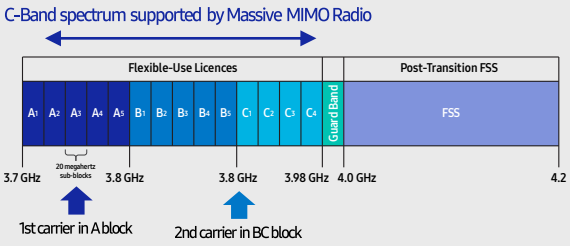


Points of Differentiation

Wide Bandwidth

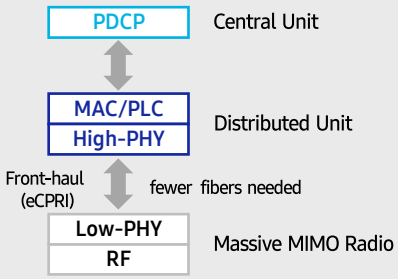
With capability to support up to 2 CC carrier configuration, Samsung C-Band massive MIMO Radio supports 200 MHz bandwidth in the C-Band spectrum.

Samsung C-Band massive MIMO Radio covers the entire C-Band 280 MHz spectrum, so it can meet the operator's needs in current A block and future B/C blocks



Future Proof Product

Samsung C-Band 64T64R Massive MIMO radio supports not only CPRI but also eCPRI as front-haul interface.
It enables operators can cut down on OPEX/CAPEX by reducing front-haul bandwidth through low layer split and using ethernet based higher efficient line.



Enhanced Performance

C-Band massive MIMO Radio creates sharp beams and extends networks' coverage on the critical mid-band spectrum using a large number of antenna elements and high output power to boost data speeds.

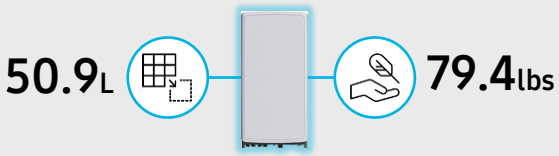
This helps operators reduce their CAPEX as they now need less products to cover the same area than before.

Furthermore, as C-Band massive MIMO Radio supports MU-MIMO(Multi-user MIMO) , it enables to increase user throughput by minimizing interference.

Well Matched Design

Samsung C-Band Massive MIMO radio utilizes 64 antennas, supports up to 280MHz bandwidth, and delivers a 200W output power. despite the above advanced performance, the Radio has a compact size of 50.9L and 79.4lbs. This makes it easy to install the Radio.

It is designed to look solid and compact, with a low profile appearance so that, when installed, harmonizes well with the surrounding environment..



Technical Specifications

Item	Specification
Tech	NR
Band	n77
Frequency Band	3700 - 3980 MHz
EIRP	78.5dBm (53.0 dBm+25.5 dBi)
IBW/OBW	280 MHz / 200 MHz
Installation	Pole/Wall
Size/ Weight	16.06 x 35.06 x 5.51 inch (50.86L)/ 79.4 lbs

SAMSUNG

About Samsung Electronics Co., Ltd.

Samsung inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, digital appliances, network systems, and memory, system LSI, foundry and LED solutions.

129 Samsung-ro, Yeongtong-gu, Suwon-si Gyeonggi-do, Korea

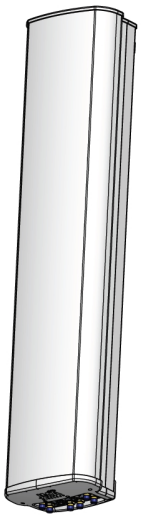
MX06FRO660-03

NWAV™ X-Pol Hex-Port Antenna

X-Pol Hex-Port 6 ft 60° Fast Roll Off antenna with independent tilt on 700 & 850 MHz:

2 ports 698-798, 824-894 MHz and 4 ports 1695-2180 MHz

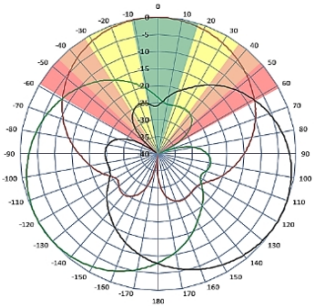
- Fast Roll Off (FRO™) azimuth beam pattern improves Intra- and Inter-cell SINR
- Compatible with dual band 700/850 MHz radios with independent low band EDT without external diplexers
- Fully integrated (iRETs) with independent RET control for low and high bands for ease of network optimization
- SON-Ready array spacing supports beamforming capabilities
- Suitable for LTE/CDMA/PCS/UMTS/GSM air interface technologies
- Integrated Smart Bias-Ts reduce leasing costs



Fast Roll-Off antennas increase data throughput without compromising coverage

The horizontal beam produced by Fast Roll-Off (FRO) technology increases the Signal to Interference & Noise Ratio (SINR) by eliminating overlap between sectors .

Non-FRO antenna



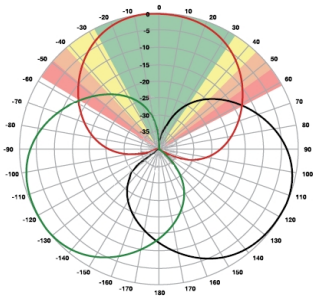
Large traditional antenna pattern overlap creates harmful interference.

JMA's FRO antenna pattern minimizes overlap, thereby minimizing interference.

LTE throughput	SINR	Speed (bps/Hz)	Speed increase	CQI
Excellent	>18	>4.5	333+%	8-10
Good	15-18	3.3-4.5	277%	6-7
Fair	10-15	2-3.3	160%	4-6
Poor	<10	<2	0%	1-3

The LTE radio automatically selects the best throughput based on measured SINR.

JMA FRO antenna



Electrical specification (minimum/maximum)	Ports 1, 2		Ports 3, 4, 5, 6		
Frequency bands, MHz	698-798	824-894	1695-1880	1850-1990	1920-2180
Polarization	± 45°		± 45°		
Average gain over all tilts, dBi	14.4	14.0	17.6	18.0	18.2
Horizontal beamwidth (HBW), degrees	60.5	53.0	55.0	55.0	55.5
Front-to-back ratio, co-polar power @180°± 30°, dB	>24	>24.0	>25.0	>25.0	>25.0
X-Pol discrimination (CPR) at boresight, dB	>15.0	>14.2	>18	>18	>15
Sector power ratio, percent	<3.5	<3.0	<3.7	<3.8	<3.6
Vertical beamwidth (VBW), degrees[1]	13.1	11.8	6.0	5.5	5.5
Electrical downtilt (EDT) range, degrees	2-14	2-14	0-9		
First upper side lobe (USLS) suppression, dB[1]	≤-15.0	≤-16.5	≤-16.0	≤-16.0	≤-16.0
Cross-polar isolation, port-to-port, dB[1]	25	25	25	25	25
Max VSWR / return loss, dB	1.5:1 / -14.0		1.5:1 / -14.0		
Max passive intermodulation (PIM), 2x20W carrier, dBc	-153		-153		
Max input power per any port, watts	300		250		
Total composite power all ports, watts	1500				

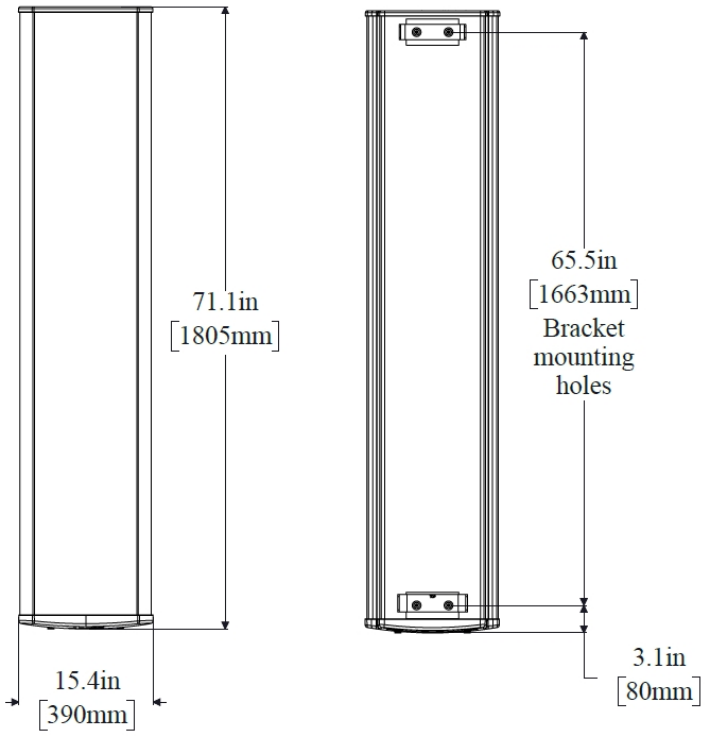
[1] Typical value over frequency and tilt

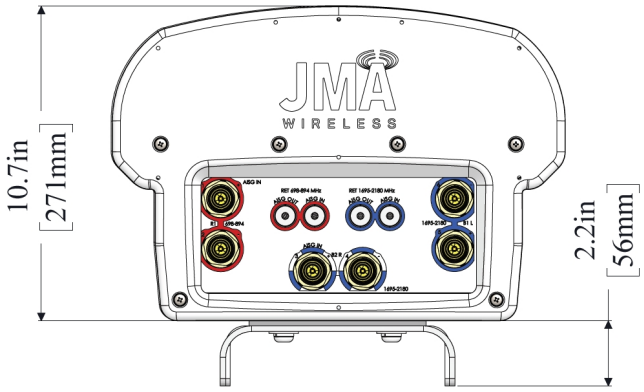
MX06FRO660-03

NWAV™ X-Pol Hex-Port Antenna

Mechanical specifications	
Dimensions height/width/depth, inches (mm)	71.3/ 15.4/ 10.7 (1811/ 392/ 273)
Shipping dimensions length/width/height, inches (mm)	82/ 20/ 15 (2083/ 508/ 381)
No. of RF input ports, connector type, and location	6 x 4.3-10 female, bottom
RF connector torque	96 lbf·in (10.85 N·m or 8 lbf·ft)
Net antenna weight, lb (kg)	60 (27.0)
Shipping weight, lb (kg)	90 (41.0)
Antenna mounting and downtilt kit included with antenna	91900318
Net weight of the mounting and downtilt kit, lb (kg)	18 (8.18)
Range of mechanical up/down tilt	-2° to 14°
Rated wind survival speed, mph (km/h)	150 (241)
Frontal, lateral, and rear wind loading @ 150 km/h, lbf (N)	154 (685), 73 (325), 158 (703)
Equivalent flat plate @ 100 mph and Cd=2, sq ft	2.6

Front view | **Back view** | **Bottom view**





Ordering information	
Antenna model	**Description**
MX06FRO660-03	6F X-Pol HEX FRO 60° independent tilt 700/850 RET, 4.3-10 & SBT
Optional accessories	
AISG cables	M/F cables for AISG connections
PCU-1000 RET controller	Stand-alone controller for RET control and configurations

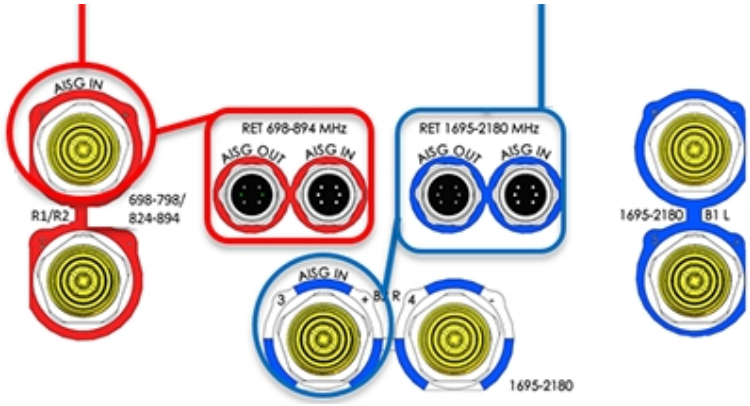
Remote electrical tilt (RET 1000) information	
RET location	Integrated into antenna
RET interface connector type	8-pin AISG connector per IEC 60130-9
RET connector torque	Min 0.5 N·m to max 1.0 N·m (hand pressure & finger tight)
RET interface connector quantity	2 pairs of AISG male/female connectors
RET interface connector location	Bottom of the antenna
Total no. of internal RETs (low bands)	2
Total no. of internal RETs (high bands)	1
RET input operating voltage, vdc	10-30
RET max power consumption, idle state, W	≤ 2.0
RET max power consumption, normal operating conditions, W	≤ 13.0
RET communication protocol	AISG 2.0 / 3GPP

RET and RF connector topology

Each RET device can be controlled either via the designated external AISG connector or RF port as shown below:

RET device	Band	RF port
R1	698-798	1-2
R2	824-894	1-2

RET device	Band	RF port
B1/B2	1695-2180	3-6

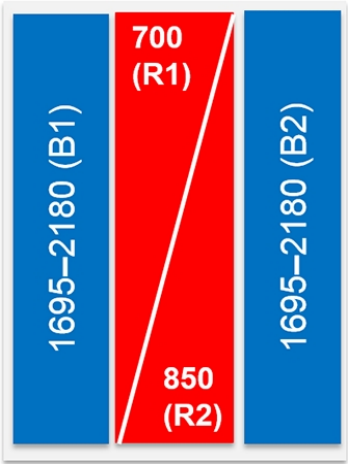


Array topology

3 sets of radiating arrays

R1/R2: 698-894 MHz
B1: 1695-2180 MHz
B2: 1695-2180 MHz

Band	RF port
1695-2180	3-4
698-894	1-2
1695-2180	5-6



ATTACHMENT 3

	General	Power	Density					
Site Name: Groton 6								
Tower Height: Verizon @ 149ft								
CARRIER	**# OF CHAN.**	**WATTS ERP**	**HEIGHT**	**FREQ.**	**CALC. POWER DENS**	**MAX. PERMISS.EXP.**	**FRACTION MPE**	**Total**
*DISH	4	224	117	600	0.02615207	0.4	0.006538018	
*DISH	4	543	117	1900	0.063395421	1	0.006339542	
*DISH	4	543	117	2190	0.063395421	1	0.006339542	
*T-Mobile	4	1538	139	2100	0.125071129	1	0.012507113	
*T-Mobile	2	592	139	600	0.024070906	0.4	0.006017727	
*T-Mobile	1	1578	139	600	0.032080988	0.4	0.008020247	
*T-Mobile	2	649	139	700	0.026388544	0.466666667	0.005654688	
*T-Mobile	4	1102	139	1900	0.089615334	1	0.008961533	
*T-Mobile	2	2204	139	1900	0.089615334	1	0.008961533	
*AT&T	1	566	128	850	0.013675424	0.566666667	0.00241331	
*AT&T	1	2038	128	763	0.04924119	0.508666667	0.009680444	
*AT&T	1	4777	128	1900	0.11541961	1	0.011541961	
*AT&T	1	1582	128	737	0.038223534	0.491333333	0.007779552	
*AT&T	1	847	128	850	0.020464813	0.566666667	0.36%	
*AT&T	1	4066	128	2100	0.098240765	1	0.98%	
*AT&T	1	847	128	850	0.020464813	0.566666667	0.36%	
*Clearwire	6	285.76	139	2500	0.034857275	1	0.35%	
VZW 700	**4**	**818**	**149**	**751**	**0.0053**	**0.5007**	**1.06%**	
VZW CDMA	**2**	**285**	**149**	**877.26**	**0.0009**	**0.5848**	**0.16%**	
VZW Cellular	**4**	**723**	**149**	**874**	**0.0047**	**0.5827**	**0.80%**	
VZW PCS	**4**	**1667**	**149**	**1977.5**	**0.0108**	**1.0000**	**1.08%**	
VZW AWS	**4**	**1528**	**149**	**2120**	**0.0099**	**1.0000**	**0.99%**	
VZW CBAND	**2**	**21627**	**149**	**3730.08**	**0.0701**	**1.0000**	**7.01%**	
								23.23%
* Source: Siting Council								

ATTACHMENT 4

Tower Engineering Solutions
Phone (972) 483-0607, Fax (972) 975-9615
1320 Greenway Drive, Suite 600, Irving, Texas 75038

Structural Analysis Report

Existing 150 ft Rohn Monopole

Customer Name: SBA Communications Corp

Customer Site Number: CT13073-A

Customer Site Name: Groton North

Carrier Name: Verizon (App#: 174292-1)

Carrier Site ID / Name: 535825 / Groton_6_CT

Site Location: 1662 Route 184

Groton, Connecticut

New London County

Latitude: 41.385666

Longitude: -72.013306

Analysis Result:

Max Structural Usage: 79.2% [Pass]

Max Foundation Usage: 73.0% [Pass]

Additional Usage Caused by Mount Modification: +1.9%

Report Prepared By: Kevin Azisllari

Tower Engineering Solutions
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Additional Usage Caused by Mount Modification: +1.9%

Report Prepared By: Kevin Azisllari

Introduction

The purpose of this report is to summarize the analysis results on the 150 ft Rohn Monopole to support the proposed antennas and transmission lines in addition to those currently installed. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

Sources of Information

Tower Drawings	Radian, File Nos. 060-3663 & 57974EH, Drawing No. A070130, dated March 16, 2007
Foundation Drawing	Radian, File Nos. 060-3663 & 57974EH, Drawing No. A070131, dated March 16, 2007
Geotechnical Report	Gemini Geotechnical Associates, Inc., Project No. 07022CT, dated March 13, 2007
Mount Modification Drawings	Verizon, Maser Consulting, Job #: 21780165A, FUZE ID: 16486417, dated 09/30/2021
Mount Analysis	Verizon, Maser Consulting, SMART Tool Project #: 10099132, dated 09/30/2021

Analysis Criteria

The rigorous analysis was performed in accordance with the requirements and stipulations of the TIA-222-G-2. In accordance with this standard, the structure was analyzed using **TESPoles,** a proprietary analysis software. The program considers the structure as an elastic 3-D model with second-order effects and temperature effects incorporated in the analysis. The analysis was performed using multiple wind directions.

Wind Speed Used in the Analysis:	Ultimate Design Wind Speed V_{ult} = 135.0 mph (3-Sec. Gust)/ Nominal Design Wind Speed V_{asd} = 105.0 mph (3-Sec. Gust)
Wind Speed with Ice:	50 mph (3-Sec. Gust) with 3/4" radial ice concurrent
Operational Wind Speed:	60 mph + 0" Radial ice
Standard/Codes:	TIA-222-G-2 / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	B
Structure Class:	II
Topographic Category:	1
Crest Height:	0 ft
Seismic Parameters:	S_S = 0.161, S_1 = 0.058

This structural analysis is based upon the tower being classified as a Structure Class II; however, if a different classification is required subsequent to the date hereof, the tower classification will be changed to meet such requirement and a new structural analysis will be run.

Existing Antennas, Mounts and Transmission Lines

The table below summarizes the antennas, mounts and transmission lines that were considered in the analysis as existing on the tower.

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
1	149.0	3	Amphenol Antel - BXA-70063-6CF - Panel	Low Profile Platform	(13) 1 5/8"	Verizon
2		3	Andrew - HBXX-6517DS-VTM - Panel			
3		3	Andrew - HBXX-6516DS-VTM - Panel			
4		3	Andrew - LNX-6512DS-A1M - Panel			
5		1	DB-T1-6Z-8AB-0Z			
6		3	ALU RRH 2x60 AWS			
7		6	RFS FD9R6004/2C-3L Diplexer			
8	139.0	3	Ericsson - Air 3246 B66 - Panel	(1) Sitepro RMQP-4096-HK- Low Profile Platform	(4) 1 5/8" Fiber	T-Mobile
9		3	RFS - APXVAARR24_43-U-NA2 - Panel			
10		3	Ericsson - AIR6449 B41 - Panel			
11		3	Ericsson - 4449 B71 + B85 - RRU			
12		3	Ericsson - 4424 B25 - RRU			
13		4	Ericsson - Radio 4415 B25 - RRU			
14	128.0	3	Powerwave - 7770.00A - Panel	Low Profile Platform	(6) 1 5/8" (4) 3/4" DC (2) 5/16" Fiber	AT&T
15		1	CCI - HPA-65R-BU4AA - Panel			
16		1	CCI - DMP65R-BU4DA - Panel			
17		2	CCI - HPA-65R-BU8AA - Panel			
18		2	CCI - DMP65R-BU8DA - Panel			
19		3	Ericsson - 4449 B5/B12 - RRU			
20		3	Ericsson - 8843 B2/B66A - RRU			
21		2	Raycap - DC6-48-60-18-8F - OVP			
22	117.0	3	JMA Wireless MX08FRO665-21 - Panel	Commscope Platform w/HRK [MC-PK8-DSH]	(1) 1.6" Hybrid	Dish Wireless
23		3	Fujitsu TA08025-B605			
24		3	Fujitsu TA08025-B604			
25		1	Raycap RDIDC-9181-PF-48			
26	108.0	1	Electronics Research, Inc (ERI)	Chain/Bracket	(1) 1/2"	Calvary Chapel

Proposed Carrier's Final Configuration of Antennas, Mounts and Transmission Lines

Information pertaining to the proposed carrier's final configuration of antennas and transmission lines was provided by SBA Communications Corp. The proposed antennas and lines are listed below.

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
1	149.0	3	Andrew LNX-6512DS-A1M - Panel	Low Profile Platform w/handrail and mods	(6) 1 5/8" (1) 12x24 Hybrid	Verizon
2		6	JMA MX06FR0660-02 - Panel			
3		3	Samsung MT6407-77A - Panel			
4		3	Samsung RF4440d-13A			
5		3	Samsung RF4439d-25A			
6		1	Raycap RVDC-6627-PF-48			

See the attached coax layout for the line placement considered in the analysis.

Analysis Results

The results of the structural analysis, performed for the wind and ice loading and antenna equipment as defined above, are summarized as the following:

	Pole shafts	Anchor Bolts	Base Plate	Flanges
Max. Usage:	**48.0%**	**62.2%**	**79.2%**	**50.6%**
Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**

Foundations

	Moment (Kip-Ft)	Shear (Kips)	Axial (Kips)
Original Design Reactions	6114.4	55.6	94.8
Analysis Reactions	3832.4	34.4	85.2
Factored Reactions*	8254.4	75.1	128.0
% of Design Reactions	46.4%	45.8%	66.6%

* Per section 15.5.1 of the TIA-222-G standard, factored reactions were obtained by multiplying a 1.35 factor to the original design reactions.

The foundation has been investigated using the supplied documents and soils report and was found adequate. Therefore, no modification to the foundation will be required.

Operational Condition (Rigidity):

Operational characteristics of the tower are found to be within the limits prescribed by TIA-222 for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 0.6793 degrees under the operational wind speed as specified in the Analysis Criteria.

Conclusions

Based on the analysis results, the existing structure and its foundation were found to be adequate to safely support the existing and proposed equipment and meet the minimum requirements per the TIA-222 Standard under the design basic wind speed as specified in the Analysis Criteria.

Standard Conditions

1. This analysis was performed based on the information supplied to **(TES) Tower Engineering Solutions, LLC.** Verification of the information provided was not included in the Scope of Work for **TES**. The accuracy of the analysis is dependent on the accuracy of the information provided.

2. The structural analysis was performance based upon the evidence available at the time of this report. All information provided by the client is considered to be accurate.

3. The analyses will be performed based on the codes as specified by the client or based on the best knowledge of the engineering staff of **TES**. In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/TIA-222. If wind speed and/or ice loads are different from the minimum values recommended by the ANSI/TIA-222 standard or other codes, **TES** should be notified in writing and the applicable minimum values provided by the client.

4. The configuration of the existing mounts, antennas, coax and other appurtenances were supplied by the customer for the current structural analysis. **TES** has not visited the tower site to verify the adequacy of the information provided. If there is any discrepancy found in the report regarding the existing conditions, **TES** should be notified immediately to evaluate the effect of the discrepancy on the analysis results.

5. The client will assume responsibility for rework associated with the differences in initially provided information, including tower and foundation information, existing and/or proposed equipment and transmission lines.

6. If a feasibility analysis was performed, final acceptance of changed conditions shall be based upon a rigorous structural analysis.

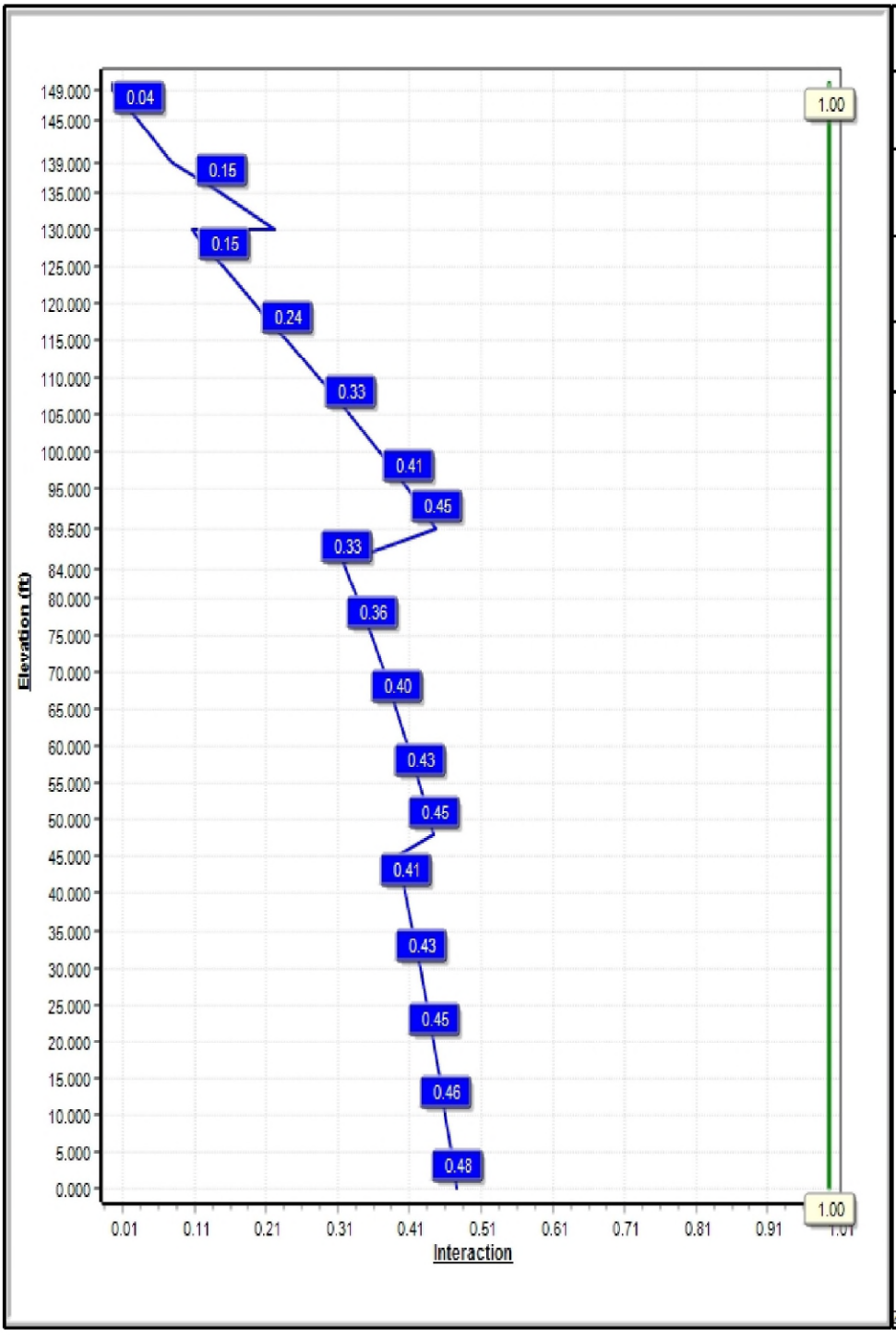
Usage Diagram - Max Ratio 48.02% at 0.0ft

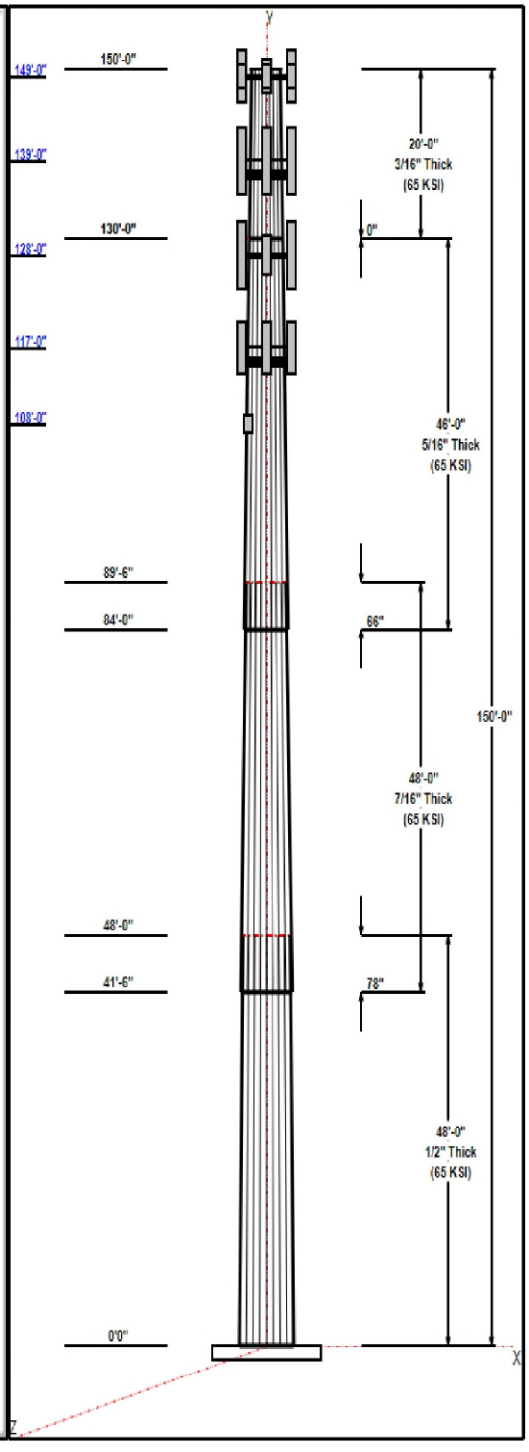
Structure:	CT13073-A-SBA	**Code:**	EIA/TIA-222-G	3/11/2022
Site Name:	Groton North	**Exposure:**	B	
Height:	150.00 (ft)	**Gh:**	1.1	
Base Elev:	0.000 (ft)			Page: 1

Tower Engineering Solutions

Dead Load Factor:	1.20	**Iterations:**	21
Wind Load Factor:	1.60		

Load Case : 1.2D + 1.6W 105 mph Wind





Structure: CT13073-A-SBA

Type: Custom
Site Name: Groton North
Height: 150.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 18 Sided
Taper: 0.20967

3/11/2022

Tower Engineering Solutions

Shaft Properties

Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	48.00	49.94	60.00	0.500		0.20967	65
2	48.00	42.11	52.17	0.438	Slip	0.20967	65
3	46.00	34.24	43.89	0.313	Slip	0.20967	65
4	20.00	30.00	34.24	0.188	Butt	0.21215	65

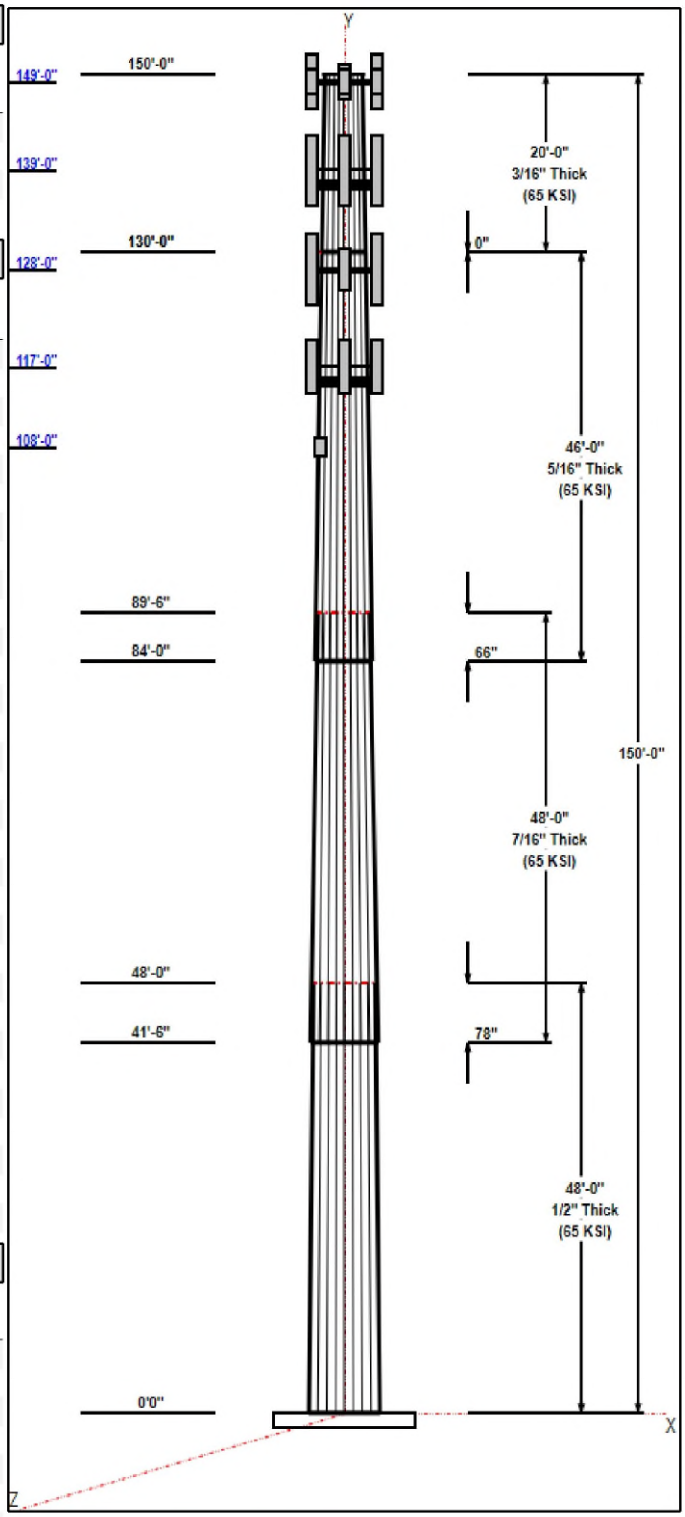
Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
149.00	149.00	1	Low Profile Platform	Verizon
149.00	149.00	3	Andrew LNX-6512DS-A1M	Verizon
149.00	149.00	6	JMA MX06FR0660-02	Verizon
149.00	149.00	3	Samsung MT6407-77A	Verizon
149.00	149.00	3	Samsung RF4440d-13A	Verizon
149.00	149.00	3	Samsung RF4439d-25A	Verizon
149.00	149.00	1	Raycap RVDC-6627-PF-48	Verizon
149.00	149.00	1	HRK12-HD	Verizon
139.00	139.00	3	Air 3246 B66	T-Mobile
139.00	139.00	3	APXVAARR24_43-U-NA2	T-Mobile
139.00	139.00	3	AIR6449 B41	T-Mobile
139.00	139.00	3	4449 B71 + B85	T-Mobile
139.00	139.00	3	4424 B25	T-Mobile
139.00	139.00	4	Radio 4415 B25	T-Mobile
139.00	139.00	1	RMQP-4096-HK	T-Mobile
128.00	128.00	1	Low Profile Platform	AT&T
128.00	128.00	1	HPA-65R-BU4AA	AT&T
128.00	128.00	1	DMP65R-BU4DA	AT&T
128.00	128.00	2	HPA-65R-BU8AA	AT&T
128.00	128.00	2	DMP65R-BU8DA	AT&T
128.00	128.00	3	4449	AT&T
128.00	128.00	3	B2 B66A 8843	AT&T
128.00	128.00	2	DC6-48-60-18-8F	AT&T
128.00	128.00	3	7770.00A	AT&T
117.00	117.00	3	MX08FRO665-21	Dish Wireless
117.00	117.00	3	TA08025-B605	Dish Wireless
117.00	117.00	3	TA08025-B604	Dish Wireless
117.00	117.00	1	RDIDC-9181-PF-48	Dish Wireless
117.00	117.00	1	MC-PK8-DSH	Dish Wireless
108.00	108.00	1	Electronics Research, Inc	Calvary Chapel
108.00	108.00	1	Chain / Bracket	Calvary Chapel

Linear Appurtenances

Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
0.00	149.00	Inside	1 5/8" Coax	Verizon
0.00	149.00	Inside	12x24 Hybrid	Verizon
0.00	139.00	Inside	1 5/8" Fiber	T-Mobile
0.00	128.00	Inside	1 5/8" Coax	AT&T
0.00	128.00	Inside	3/4" DC	AT&T
0.00	128.00	Inside	5/16" Fiber	AT&T
0.00	117.00	Inside	1.6" Hybrid	Dish Wireless
0.00	108.00	Inside	1/2" Coax	Calvary Chapel

Anchor Bolts



Qty	Specifications	Grade (ksi)	Arrangement
34	1.5" F1554 105	105.0	Radial

Base Plate

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
1.7500	69.5	50.0	Round

Reactions

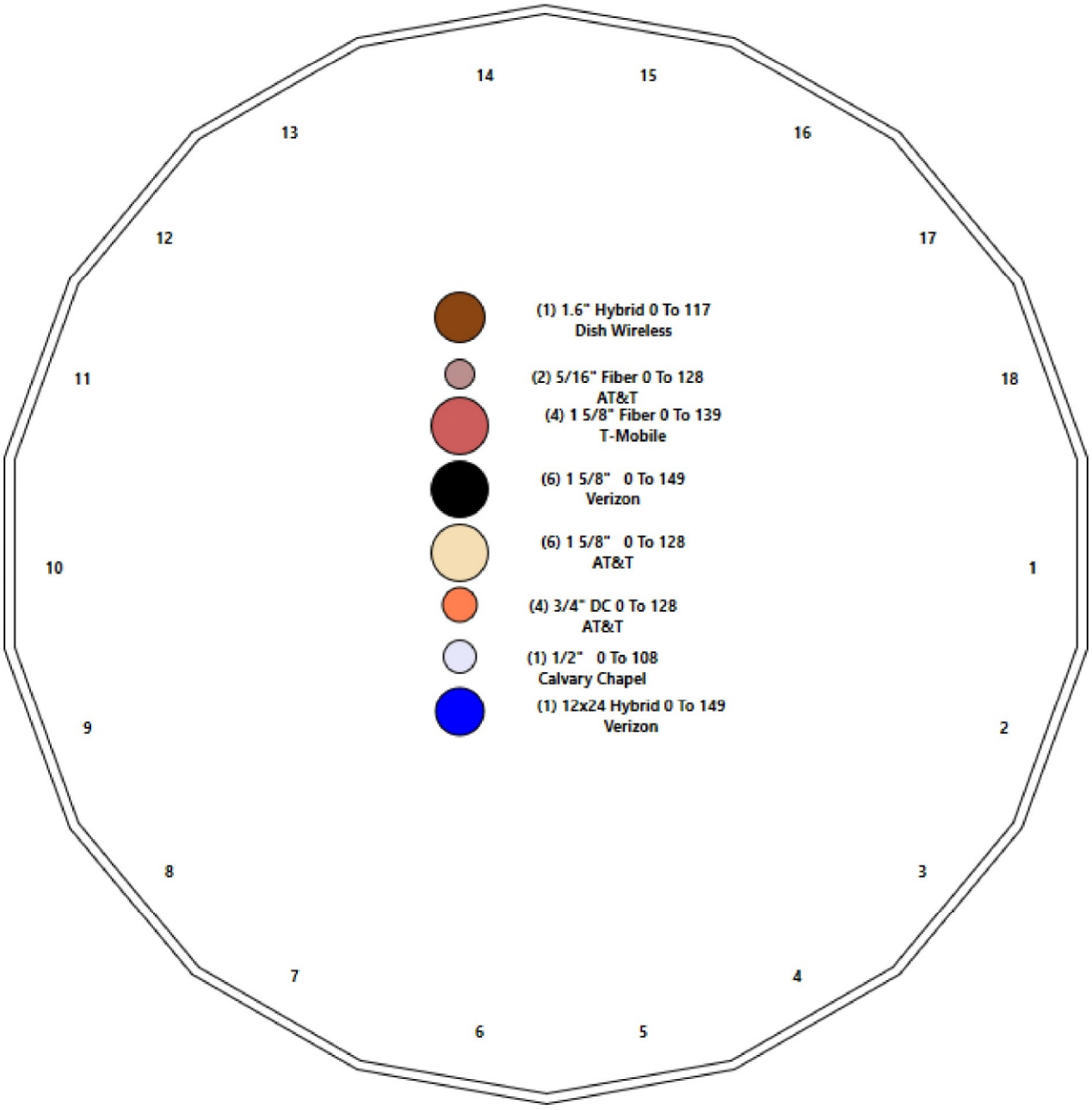
Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.6W 105 mph Wind	3832.4	34.4	57.0
0.9D + 1.6W 105 mph Wind	3804.1	34.4	42.7
1.2D + 1.0Di + 1.0Wi 50 mph Wind	908.6	8.3	85.2
1.2D + 1.0E	249.2	2.1	57.0
0.9D + 1.0E	247.3	2.1	42.8
1.0D + 1.0W 60 mph Wind	778.6	7.0	47.5

Structure: CT13073-A-SBA - Coax Line Placement

Type: Monopole
Site Name: Groton North
Height: 150.00 (ft)

3/11/2022

Tower Engineering Solutions



Shaft Properties

Structure:	CT13073-A-SBA		**Code:**	TIA-222-G	3/11/2022
Site Name:	Groton North		**Exposure:**	B	
Height:	150.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 5

Tower Engineering Solutions

Sec. No.	Shape	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Overlap (in)	Weight (lb)
1	18	48.000	0.5000	65		0.00	14,118
2	18	48.000	0.4375	65	Slip	78.00	10,593
3	18	46.000	0.3125	65	Slip	66.00	6,016
4	18	20.000	0.1875	65	Flange	0.00	1,293
					Total Shaft Weight:		**32,020**

	Bottom						Top						
Sec. No.	**Dia (in)**	**Elev (ft)**	**Area (sqin)**	**Ix (in^4)**	**W/t Ratio**	**D/t Ratio**	**Dia (in)**	**Elev (ft)**	**Area (sqin)**	**Ix (in^4)**	**W/t Ratio**	**D/t Ratio**	**Taper**
1	60.00	0.00	94.42	42234.30	19.75	120.00	49.94	48.00	78.45	24223.7	16.20	99.87	0.209669
2	52.17	41.50	71.84	24294.43	19.62	119.25	42.11	89.50	57.86	12695.7	15.56	96.25	0.209669
3	43.89	84.00	43.22	10368.48	23.35	140.44	34.24	130.00	33.65	4895.14	17.91	109.5	0.209669
4	34.24	130.0	20.27	2969.66	30.79	182.63	30.00	150.00	17.74	1992.24	26.80	160.0	0.212150

Load Summary

Structure:	CT13073-A-SBA	**Code:**	TIA-222-G	3/11/2022	
Site Name:	Groton North	**Exposure:**	B		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 6	

Tower Engineering Solutions

Discrete Appurtenances

No.	Elev (ft)	Description	Qty	No Ice Weight (lb)	No Ice CaAa (sf)	No Ice CaAa Factor	Ice Weight (lb)	Ice CaAa (sf)	Ice CaAa Factor	Hor. Ecc. (ft)	Vert Ecc (ft)
1	149.00	Low Profile Platform	1	1500.00	22.00	1.00	2808.04	39.650	1.00	0.00	0.00
2	149.00	Andrew LNX-6512DS-A1M	3	27.80	5.09	0.80	149.26	6.979	0.80	0.00	0.00
3	149.00	JMA MX06FR0660-02	6	46.00	9.87	0.87	314.77	11.245	0.87	0.00	0.00
4	149.00	Samsung MT6407-77A	3	79.40	4.69	0.70	198.84	5.636	0.70	0.00	0.00
5	149.00	Samsung RF4440d-13A	3	62.80	1.46	0.67	104.90	1.952	0.67	0.00	0.00
6	149.00	Samsung RF4439d-25A	3	62.80	1.46	0.67	104.90	1.952	0.67	0.00	0.00
7	149.00	Raycap RVDC-6627-PF-48	1	32.00	4.06	1.00	145.85	4.881	1.00	0.00	0.00
8	149.00	HRK12-HD	1	406.61	15.30	1.00	888.83	30.243	1.00	0.00	0.00
9	139.00	Air 3246 B66	3	180.00	7.94	0.83	380.02	9.112	0.85	0.00	0.00
10	139.00	APXVAARR24_43-U-NA2	3	128.00	20.24	0.70	542.36	22.125	0.72	0.00	0.00
11	139.00	AIR6449 B41	3	103.00	5.65	0.71	239.08	6.593	0.73	0.00	0.00
12	139.00	4449 B71 + B85	3	73.20	1.97	0.67	130.50	2.535	0.67	0.00	0.00
13	139.00	4424 B25	3	88.00	2.05	0.67	173.59	2.641	0.67	0.00	0.00
14	139.00	Radio 4415 B25	4	46.00	1.64	0.67	86.79	2.151	0.67	0.00	0.00
15	139.00	RMQP-4096-HK	1	2645.00	51.70	1.00	5393.64	89.666	1.00	0.00	0.00
16	128.00	Low Profile Platform	1	1600.00	22.00	1.00	2974.20	39.384	1.00	0.00	0.00
17	128.00	HPA-65R-BU4AA	1	28.70	4.92	0.94	122.01	5.853	0.96	0.00	0.00
18	128.00	DMP65R-BU4DA	1	69.70	8.28	0.99	307.93	9.177	0.99	0.00	0.00
19	128.00	HPA-65R-BU8AA	2	54.00	11.23	0.86	315.60	12.867	0.88	0.00	0.00
20	128.00	DMP65R-BU8DA	2	95.70	17.87	0.72	445.13	19.896	0.74	0.00	0.00
21	128.00	4449	3	70.00	1.65	0.67	136.90	2.178	0.67	0.00	0.00
22	128.00	B2 B66A 8843	3	70.00	1.64	0.67	115.26	2.148	0.67	0.00	0.00
23	128.00	DC6-48-60-18-8F	2	31.80	0.92	1.00	92.65	1.351	1.00	0.00	0.00
24	128.00	7770.00A	3	27.00	5.54	0.72	139.50	7.641	0.74	0.00	0.00
25	117.00	MX08FRO665-21	3	64.50	12.49	0.74	348.23	13.919	0.74	0.00	0.00
26	117.00	TA08025-B605	3	75.00	1.96	0.67	126.02	2.507	0.67	0.00	0.00
27	117.00	TA08025-B604	3	63.90	1.96	0.67	113.29	2.507	0.67	0.00	0.00
28	117.00	RDIDC-9181-PF-48	1	21.90	2.01	0.50	73.84	2.564	0.50	0.00	0.00
29	117.00	MC-PK8-DSH	1	1727.00	37.59	1.00	3373.41	83.665	1.00	0.00	0.00
30	108.00	Electronics Research, Inc (ERI	1	8.80	4.60	1.00	80.65	5.952	1.00	0.00	0.00
31	108.00	Chain / Bracket	1	220.00	2.50	1.00	517.23	5.033	1.00	0.00	0.00
		Totals:	**72**	**12,608.91**			**29,636.16**				

Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed
0.00	149.00	(6) 1 5/8" Coax	0.00	Inside
0.00	149.00	(1) 12x24 Hybrid	0.00	Inside
0.00	139.00	(4) 1 5/8" Fiber	0.00	Inside
0.00	128.00	(6) 1 5/8" Coax	0.00	Inside
0.00	128.00	(4) 3/4" DC	0.00	Inside
0.00	128.00	(2) 5/16" Fiber	0.00	Inside
0.00	117.00	(1) 1.6" Hybrid	0.00	Inside
0.00	108.00	(1) 1/2" Coax	0.00	Inside

Shaft Section Properties

Structure:	CT13073-A-SBA	**Code:**	TIA-222-G	3/11/2022	
Site Name:	Groton North	**Exposure:**	B		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 7	

Tower Engineering Solutions

Increment Length: **5 (ft)**

Elev (ft)	Description	Thick (in)	Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fpy (ksi)	S (in^3)	Weight (lb)
0.00		0.5000	60.000	94.423	42234.3	19.75	120.00	78.2	1386.	0.0
5.00		0.5000	58.952	92.759	40041.0	19.38	117.90	78.6	1337.	1592.4
10.00		0.5000	57.903	91.096	37925.0	19.01	115.81	79.0	1290.	1564.0
15.00		0.5000	56.855	89.432	35884.8	18.64	113.71	79.5	1243.	1535.7
20.00		0.5000	55.807	87.768	33919.2	18.27	111.61	79.9	1197.	1507.4
25.00		0.5000	54.758	86.105	32026.7	17.90	109.52	80.3	1152.	1479.1
30.00		0.5000	53.710	84.441	30205.9	17.53	107.42	80.8	1107.	1450.8
35.00		0.5000	52.662	82.777	28455.5	17.16	105.32	81.2	1064.	1422.5
40.00		0.5000	51.613	81.114	26774.1	16.79	103.23	81.7	1021.	1394.2
41.50	Bot - Section 2	0.5000	51.299	80.615	26282.9	16.68	102.60	81.8	1009.	412.7
45.00		0.5000	50.565	79.450	25160.2	16.42	101.13	82.1	980.0	1802.7
48.00	Top - Section 1	0.4375	50.811	69.947	22424.6	19.07	116.14	0.0	0.0	1524.5
50.00		0.4375	50.392	69.365	21869.3	18.90	115.18	79.2	854.8	474.0
55.00		0.4375	49.343	67.909	20521.1	18.48	112.78	79.7	819.1	1167.8
60.00		0.4375	48.295	66.454	19229.5	18.05	110.39	80.2	784.2	1143.0
65.00		0.4375	47.247	64.998	17993.3	17.63	107.99	80.7	750.1	1118.2
70.00		0.4375	46.198	63.542	16811.2	17.21	105.60	81.2	716.7	1093.5
75.00		0.4375	45.150	62.086	15682.1	16.79	103.20	81.7	684.1	1068.7
80.00		0.4375	44.101	60.631	14604.7	16.36	100.80	82.2	652.3	1043.9
84.00	Bot - Section 3	0.4375	43.263	59.466	13779.2	16.03	98.89	82.5	627.3	817.3
85.00		0.4375	43.053	59.175	13577.8	15.94	98.41	82.5	621.2	348.6
89.50	Top - Section 2	0.3125	42.735	42.076	9566.9	22.70	136.75	0.0	0.0	1547.5
90.00		0.3125	42.630	41.972	9496.1	22.64	136.42	74.8	438.7	71.5
95.00		0.3125	41.581	40.932	8807.7	22.05	133.06	75.5	417.2	705.3
100.00		0.3125	40.533	39.892	8153.4	21.46	129.71	76.2	396.2	687.6
105.00		0.3125	39.485	38.853	7532.3	20.87	126.35	76.9	375.7	669.9
108.00		0.3125	38.856	38.229	7175.3	20.51	124.34	77.3	363.7	393.4
110.00		0.3125	38.436	37.813	6943.6	20.28	123.00	77.6	355.8	258.8
115.00		0.3125	37.388	36.773	6386.4	19.69	119.64	78.2	336.4	634.5
117.00		0.3125	36.969	36.357	6172.2	19.45	118.30	78.5	328.8	248.8
120.00		0.3125	36.340	35.733	5859.8	19.09	116.29	78.9	317.6	368.0
125.00		0.3125	35.291	34.693	5363.0	18.50	112.93	79.6	299.3	599.1
128.00		0.3125	34.662	34.070	5078.9	18.15	110.92	80.1	288.6	351.0
130.00	Top - Section 3	0.3125	34.243	33.654	4895.1	17.91	109.58	80.3	281.6	230.4
130.00	Bot - Section 4	0.1875	34.243	20.267	2969.7	29.85	182.63	65.2	170.8	
135.00		0.1875	33.182	19.635	2700.7	29.79	176.97	66.4	160.3	339.4
139.00		0.1875	32.334	19.130	2497.7	29.00	172.45	67.3	152.1	263.8
140.00		0.1875	32.122	19.004	2448.5	28.80	171.31	67.5	150.1	64.9
145.00		0.1875	31.061	18.373	2212.5	27.80	165.66	68.7	140.3	318.0
149.00		0.1875	30.212	17.868	2035.1	27.00	161.13	69.6	132.7	246.6
150.00		0.1875	30.000	17.742	1992.2	26.80	160.00	69.9	130.8	60.6
										32020.4

Wind Loading - Shaft

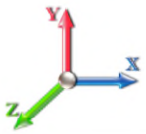
Structure:	CT13073-A-SBA	**Code:**	TIA-222-G	3/11/2022	
Site Name:	Groton North	**Exposure:**	B		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 8	

Tower Engineering Solutions

Load Case: 1.2D + 1.6W 105 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 21

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	18.769	20.65	446.02	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	18.769	20.65	438.23	0.650	0.000	5.00	25.164	16.36	540.3	0.0	1910.8
10.00		1.00	0.70	18.769	20.65	430.44	0.650	0.000	5.00	24.720	16.07	530.8	0.0	1876.9
15.00		1.00	0.70	18.769	20.65	422.64	0.650	0.000	5.00	24.277	15.78	521.3	0.0	1842.9
20.00		1.00	0.70	18.769	20.65	414.85	0.650	0.000	5.00	23.833	15.49	511.7	0.0	1808.9
25.00		1.00	0.70	18.769	20.65	407.06	0.650	0.000	5.00	23.390	15.20	502.2	0.0	1775.0
30.00		1.00	0.70	18.785	20.66	399.43	0.650	0.000	5.00	22.946	14.91	493.1	0.0	1741.0
35.00		1.00	0.73	19.631	21.59	400.36	0.650	0.000	5.00	22.503	14.63	505.4	0.0	1707.0
40.00		1.00	0.76	20.394	22.43	399.94	0.650	0.000	5.00	22.059	14.34	514.7	0.0	1673.1
41.50	Bot - Section 2	1.00	0.77	20.610	22.67	399.60	0.650	0.000	1.50	6.531	4.25	154.0	0.0	495.3
45.00		1.00	0.79	21.092	23.20	398.47	0.650	0.000	3.50	15.343	9.97	370.2	0.0	2163.2
48.00	Top - Section 1	1.00	0.80	21.485	23.63	397.16	0.650	0.000	3.00	12.979	8.44	319.0	0.0	1829.4
50.00		1.00	0.81	21.737	23.91	403.12	0.650	0.000	2.00	8.564	5.57	212.9	0.0	568.9
55.00		1.00	0.83	22.337	24.57	400.15	0.650	0.000	5.00	21.099	13.71	539.1	0.0	1401.3
60.00		1.00	0.85	22.899	25.19	396.55	0.650	0.000	5.00	20.655	13.43	541.1	0.0	1371.6
65.00		1.00	0.87	23.429	25.77	392.40	0.650	0.000	5.00	20.212	13.14	541.7	0.0	1341.9
70.00		1.00	0.89	23.930	26.32	387.78	0.650	0.000	5.00	19.768	12.85	541.2	0.0	1312.2
75.00		1.00	0.91	24.406	26.85	382.73	0.650	0.000	5.00	19.324	12.56	539.6	0.0	1282.5
80.00		1.00	0.93	24.861	27.35	377.31	0.650	0.000	5.00	18.881	12.27	537.0	0.0	1252.7
84.00	Bot - Section 3	1.00	0.94	25.210	27.73	372.72	0.650	0.000	4.00	14.785	9.61	426.4	0.0	980.8
85.00		1.00	0.94	25.295	27.82	371.54	0.650	0.000	1.00	3.705	2.41	107.2	0.0	418.3
89.50	Top - Section 2	1.00	0.96	25.671	28.24	366.09	0.650	0.000	4.50	16.452	10.69	483.2	0.0	1857.0
90.00		1.00	0.96	25.711	28.28	370.90	0.650	0.000	0.50	1.806	1.17	53.1	0.0	85.8
95.00		1.00	0.97	26.112	28.72	364.59	0.650	0.000	5.00	17.815	11.58	532.2	0.0	846.3
100.00		1.00	0.99	26.497	29.15	358.01	0.650	0.000	5.00	17.371	11.29	526.6	0.0	825.1
105.00		1.00	1.00	26.869	29.56	351.19	0.650	0.000	5.00	16.928	11.00	520.3	0.0	803.9
108.00	Appurtenance(s)	1.00	1.01	27.086	29.79	346.99	0.650	0.000	3.00	9.944	6.46	308.1	0.0	472.1
110.00		1.00	1.02	27.229	29.95	344.15	0.650	0.000	2.00	6.540	4.25	203.7	0.0	310.5
115.00		1.00	1.03	27.577	30.33	336.89	0.650	0.000	5.00	16.040	10.43	506.0	0.0	761.4
117.00	Appurtenance(s)	1.00	1.03	27.713	30.48	333.93	0.650	0.000	2.00	6.292	4.09	199.5	0.0	298.6
120.00		1.00	1.04	27.914	30.71	329.44	0.650	0.000	3.00	9.305	6.05	297.1	0.0	441.6
125.00		1.00	1.05	28.242	31.07	321.81	0.650	0.000	5.00	15.153	9.85	489.6	0.0	718.9
128.00	Appurtenance(s)	1.00	1.06	28.434	31.28	317.15	0.650	0.000	3.00	8.879	5.77	288.8	0.0	421.2
130.00	Top - Section 3	1.00	1.07	28.560	31.42	314.00	0.650	0.000	2.00	5.831	3.79	190.5	0.0	276.5
135.00		1.00	1.08	28.869	31.76	305.92	0.650	0.000	5.00	14.264	9.27	471.1	0.0	407.3
139.00	Appurtenance(s)	1.00	1.09	29.111	32.02	299.34	0.650	0.000	4.00	11.088	7.21	369.3	0.0	316.6
140.00		1.00	1.09	29.171	32.09	297.69	0.650	0.000	1.00	2.727	1.77	91.0	0.0	77.9
145.00		1.00	1.10	29.465	32.41	289.30	0.650	0.000	5.00	13.366	8.69	450.5	0.0	381.6
149.00	Appurtenance(s)	1.00	1.11	29.695	32.66	282.49	0.650	0.000	4.00	10.370	6.74	352.3	0.0	296.0
150.00		1.00	1.11	29.752	32.73	280.78	0.650	0.000	1.00	2.548	1.66	86.7	0.0	72.7
								Totals:	**150.00**			**15,368.5**		**38,424.5**

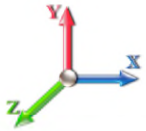
Discrete Appurtenance Forces

Structure:	CT13073-A-SBA	**Code:**	TIA-222-G	3/11/2022	
Site Name:	Groton North	**Exposure:**	B		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 9	

Load Case: 1.2D + 1.6W 105 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 21

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	149.00	Samsung MT6407-77A	3	29.695	32.664	0.52	0.75	7.39	285.84	0.000	0.000	386.05	0.00	0.00
2	149.00	Low Profile Platform	1	29.695	32.664	1.00	1.00	22.00	1800.00	0.000	0.000	1149.79	0.00	0.00
3	149.00	Andrew LNX-6512DS-A1M	3	29.695	32.664	0.60	0.75	9.16	100.08	0.000	0.000	478.83	0.00	0.00
4	149.00	JMA MX06FR0660-02	6	29.695	32.664	0.65	0.75	38.64	331.20	0.000	0.000	2019.50	0.00	0.00
5	149.00	HRK12-HD	1	29.695	32.664	1.00	1.00	15.30	487.93	0.000	0.000	799.63	0.00	0.00
6	149.00	Samsung RF4440d-13A	3	29.695	32.664	0.50	0.75	2.20	226.08	0.000	0.000	115.03	0.00	0.00
7	149.00	Samsung RF4439d-25A	3	29.695	32.664	0.50	0.75	2.20	226.08	0.000	0.000	115.03	0.00	0.00
8	149.00	Raycap	1	29.695	32.664	0.75	0.75	3.04	38.40	0.000	0.000	159.14	0.00	0.00
9	139.00	RMQP-4096-HK	1	29.111	32.022	1.00	1.00	51.70	3174.00	0.000	0.000	2648.90	0.00	0.00
10	139.00	Radio 4415 B25	4	29.111	32.022	0.50	0.75	3.30	220.80	0.000	0.000	168.89	0.00	0.00
11	139.00	4424 B25	3	29.111	32.022	0.50	0.75	3.09	316.80	0.000	0.000	158.34	0.00	0.00
12	139.00	4449 B71 + B85	3	29.111	32.022	0.50	0.75	2.97	263.52	0.000	0.000	152.16	0.00	0.00
13	139.00	AIR6449 B41	3	29.111	32.022	0.53	0.75	9.03	370.80	0.000	0.000	462.45	0.00	0.00
14	139.00	APXVAARR24_43-U-NA2	3	29.111	32.022	0.52	0.75	31.88	460.80	0.000	0.000	1633.30	0.00	0.00
15	139.00	Air 3246 B66	3	29.111	32.022	0.62	0.75	14.83	648.00	0.000	0.000	759.72	0.00	0.00
16	128.00	7770.00A	3	28.434	31.277	0.58	0.80	9.57	97.20	0.000	0.000	479.07	0.00	0.00
17	128.00	HPA-65R-BU8AA	2	28.434	31.277	0.69	0.80	15.45	129.60	0.000	0.000	773.29	0.00	0.00
18	128.00	Low Profile Platform	1	28.434	31.277	1.00	1.00	22.00	1920.00	0.000	0.000	1100.95	0.00	0.00
19	128.00	HPA-65R-BU4AA	1	28.434	31.277	0.75	0.80	3.70	34.44	0.000	0.000	185.15	0.00	0.00
20	128.00	DMP65R-BU4DA	1	28.434	31.277	0.79	0.80	6.56	83.64	0.000	0.000	328.17	0.00	0.00
21	128.00	DC6-48-60-18-8F	2	28.434	31.277	0.80	0.80	1.47	76.32	0.000	0.000	73.66	0.00	0.00
22	128.00	DMP65R-BU8DA	2	28.434	31.277	0.58	0.80	20.59	229.68	0.000	0.000	1030.20	0.00	0.00
23	128.00	4449	3	28.434	31.277	0.54	0.80	2.65	252.00	0.000	0.000	132.77	0.00	0.00
24	128.00	B2 B66A 8843	3	28.434	31.277	0.54	0.80	2.64	252.00	0.000	0.000	131.97	0.00	0.00
25	117.00	MC-PK8-DSH	1	27.713	30.484	1.00	1.00	37.59	2072.40	0.000	0.000	1833.44	0.00	0.00
26	117.00	RDIDC-9181-PF-48	1	27.713	30.484	0.38	0.75	0.75	26.28	0.000	0.000	36.76	0.00	0.00
27	117.00	TA08025-B604	3	27.713	30.484	0.50	0.75	2.95	230.04	0.000	0.000	144.11	0.00	0.00
28	117.00	TA08025-B605	3	27.713	30.484	0.50	0.75	2.95	270.00	0.000	0.000	144.11	0.00	0.00
29	117.00	MX08FRO665-21	3	27.713	30.484	0.55	0.75	20.80	232.20	0.000	0.000	1014.31	0.00	0.00
30	108.00	Chain / Bracket	1	27.086	29.795	1.00	1.00	2.50	264.00	0.000	0.000	119.18	0.00	0.00
31	108.00	Electronics Research, Inc	1	27.086	29.795	1.00	1.00	4.60	10.56	0.000	0.000	219.29	0.00	0.00
							Totals:		**15,130.69**			**18,953.23**		

Total Applied Force Summary

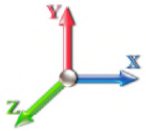
Structure:	CT13073-A-SBA	**Code:**	TIA-222-G	3/11/2022	
Site Name:	Groton North	**Exposure:**	B		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 10	

Tower Engineering Solutions

Load Case: 1.2D + 1.6W 105 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 21

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		540.31	2037.94	0.00	0.00
10.00		530.79	2003.98	0.00	0.00
15.00		521.26	1970.01	0.00	0.00
20.00		511.74	1936.04	0.00	0.00
25.00		502.22	1902.08	0.00	0.00
30.00		493.11	1868.11	0.00	0.00
35.00		505.35	1834.14	0.00	0.00
40.00		514.66	1800.18	0.00	0.00
41.50		153.99	533.43	0.00	0.00
45.00		370.23	2252.21	0.00	0.00
48.00		318.99	1905.63	0.00	0.00
50.00		212.95	619.71	0.00	0.00
55.00		539.14	1528.46	0.00	0.00
60.00		541.09	1498.74	0.00	0.00
65.00		541.72	1469.02	0.00	0.00
70.00		541.17	1439.30	0.00	0.00
75.00		539.56	1409.58	0.00	0.00
80.00		536.98	1379.86	0.00	0.00
84.00		426.41	1082.49	0.00	0.00
85.00		107.21	443.71	0.00	0.00
89.50		483.16	1971.46	0.00	0.00
90.00		53.12	98.51	0.00	0.00
95.00		532.16	973.43	0.00	0.00
100.00		526.57	952.21	0.00	0.00
105.00		520.33	930.98	0.00	0.00
108.00	(2) attachments	646.59	822.96	0.00	0.00
110.00		203.73	360.97	0.00	0.00
115.00		506.04	887.56	0.00	0.00
117.00	(11) attachments	3372.23	3180.00	0.00	0.00
120.00		297.14	513.65	0.00	0.00
125.00		489.58	839.10	0.00	0.00
128.00	(18) attachments	4524.06	3568.15	0.00	0.00
130.00		190.50	305.40	0.00	0.00
135.00		471.08	479.49	0.00	0.00
139.00	(20) attachments	6353.02	5829.04	0.00	0.00
140.00		91.01	87.30	0.00	0.00
145.00		450.54	428.76	0.00	0.00
149.00	(21) attachments	5575.27	3829.34	0.00	0.00
150.00		86.71	72.70	0.00	0.00
	Totals:	**34,321.68**	**57,045.60**	**0.00**	**0.00**

Calculated Forces

Structure:	CT13073-A-SBA	**Code:**	TIA-222-G	3/11/2022	
Site Name:	Groton North	**Exposure:**	B		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 11	

Load Case: 1.2D + 1.6W 105 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60

Iterations 21

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-57.01	-34.39	0.00	-3832.4	0.00	3832.43	6643.18	3321.59	16232.9	8128.53	0.00	0.000	0.000	0.480
5.00	-54.89	-33.96	0.00	-3660.5	0.00	3660.50	6562.43	3281.22	15750.7	7887.07	0.07	-0.126	0.000	0.473
10.00	-52.82	-33.54	0.00	-3490.6	0.00	3490.68	6480.38	3240.19	15272.4	7647.59	0.27	-0.253	0.000	0.465
15.00	-50.78	-33.13	0.00	-3322.9	0.00	3322.97	6397.03	3198.52	14798.3	7410.16	0.60	-0.381	0.000	0.456
20.00	-48.77	-32.71	0.00	-3157.3	0.00	3157.34	6312.38	3156.19	14328.4	7174.88	1.07	-0.509	0.000	0.448
25.00	-46.80	-32.29	0.00	-2993.8	0.00	2993.80	6226.42	3113.21	13863.0	6941.83	1.67	-0.638	0.000	0.439
30.00	-44.87	-31.88	0.00	-2832.3	0.00	2832.34	6139.16	3069.58	13402.2	6711.09	2.41	-0.768	0.000	0.429
35.00	-42.97	-31.44	0.00	-2672.9	0.00	2672.95	6050.60	3025.30	12946.2	6482.75	3.29	-0.897	0.000	0.420
40.00	-41.13	-30.96	0.00	-2515.7	0.00	2515.73	5960.74	2980.37	12495.2	6256.90	4.30	-1.027	0.000	0.409
41.50	-40.57	-30.84	0.00	-2469.2	0.00	2469.29	5933.53	2966.76	12360.9	6189.64	4.63	-1.067	0.000	0.406
45.00	-38.28	-30.49	0.00	-2361.3	0.00	2361.35	5869.58	2934.79	12049.3	6033.61	5.44	-1.158	0.000	0.398
48.00	-36.34	-30.17	0.00	-2269.8	0.00	2269.89	4971.57	2485.79	10282.0	5148.64	6.20	-1.237	0.000	0.448
50.00	-35.68	-30.00	0.00	-2209.5	0.00	2209.56	4942.60	2471.30	10136.2	5075.65	6.73	-1.290	0.000	0.443
55.00	-34.09	-29.51	0.00	-2059.5	0.00	2059.55	4869.24	2434.62	9774.42	4894.48	8.15	-1.428	0.000	0.428
60.00	-32.54	-29.01	0.00	-1912.0	0.00	1912.01	4794.58	2397.29	9416.42	4715.21	9.72	-1.566	0.000	0.412
65.00	-31.02	-28.50	0.00	-1766.9	0.00	1766.98	4718.63	2359.31	9062.39	4537.93	11.44	-1.702	0.000	0.396
70.00	-29.53	-27.98	0.00	-1624.5	0.00	1624.51	4641.37	2320.68	8712.52	4362.74	13.29	-1.836	0.000	0.379
75.00	-28.08	-27.46	0.00	-1484.6	0.00	1484.61	4562.80	2281.40	8366.97	4189.70	15.29	-1.968	0.000	0.361
80.00	-26.67	-26.92	0.00	-1347.3	0.00	1347.33	4482.94	2241.47	8025.91	4018.92	17.42	-2.096	0.000	0.341
84.00	-25.57	-26.49	0.00	-1239.6	0.00	1239.63	4418.04	2209.02	7756.28	3883.90	19.22	-2.197	0.000	0.325
85.00	-25.10	-26.39	0.00	-1213.1	0.00	1213.15	4396.40	2198.20	7680.13	3845.78	19.68	-2.222	0.000	0.321
89.50	-23.12	-25.85	0.00	-1094.3	0.00	1094.39	2828.72	1414.36	4933.25	2470.29	21.83	-2.331	0.000	0.452
90.00	-22.99	-25.83	0.00	-1081.4	0.00	1081.46	2824.36	1412.18	4913.38	2460.34	22.07	-2.343	0.000	0.448
95.00	-21.97	-25.32	0.00	-952.31	0.00	952.31	2780.02	1390.01	4715.55	2361.28	24.61	-2.496	0.000	0.412
100.00	-20.99	-24.80	0.00	-825.73	0.00	825.73	2734.38	1367.19	4519.43	2263.07	27.30	-2.639	0.000	0.373
105.00	-20.04	-24.27	0.00	-701.75	0.00	701.75	2687.43	1343.72	4325.17	2165.80	30.14	-2.772	0.000	0.332
108.00	-19.22	-23.60	0.00	-628.94	0.00	628.94	2658.64	1329.32	4209.58	2107.92	31.90	-2.848	0.000	0.306
110.00	-18.84	-23.41	0.00	-581.74	0.00	581.74	2639.19	1319.59	4132.95	2069.55	33.11	-2.896	0.000	0.289
115.00	-17.95	-22.88	0.00	-464.70	0.00	464.70	2589.64	1294.82	3942.93	1974.40	36.20	-3.003	0.000	0.243
117.00	-14.94	-19.36	0.00	-418.94	0.00	418.94	2569.45	1284.73	3867.58	1936.67	37.47	-3.042	0.000	0.222
120.00	-14.42	-19.05	0.00	-360.87	0.00	360.87	2538.79	1269.39	3755.30	1880.44	39.40	-3.096	0.000	0.198
125.00	-13.59	-18.53	0.00	-265.62	0.00	265.62	2486.64	1243.32	3570.20	1787.76	42.68	-3.172	0.000	0.154
128.00	-10.27	-13.82	0.00	-210.04	0.00	210.04	2454.72	1227.36	3460.44	1732.79	44.69	-3.210	0.000	0.126
130.00	-9.97	-13.62	0.00	-182.41	0.00	182.41	2433.18	1216.59	3387.83	1696.43	46.04	-3.232	0.000	0.112
130.00	-9.97	-13.62	0.00	-182.41	0.00	182.41	1188.95	594.48	1667.65	835.07	46.04	-3.232	0.000	0.227
135.00	-9.51	-13.13	0.00	-114.33	0.00	114.33	1172.65	586.33	1593.28	797.82	49.44	-3.275	0.000	0.152
139.00	-4.05	-6.45	0.00	-61.83	0.00	61.83	1158.65	579.33	1533.54	767.91	52.21	-3.312	0.000	0.084
140.00	-3.97	-6.35	0.00	-55.38	0.00	55.38	1155.02	577.51	1518.58	760.42	52.90	-3.319	0.000	0.076
145.00	-3.56	-5.88	0.00	-23.61	0.00	23.61	1136.06	568.03	1443.74	722.95	56.39	-3.342	0.000	0.036
149.00	-0.07	-0.09	0.00	-0.09	0.00	0.09	1119.92	559.96	1383.89	692.97	59.19	-3.348	0.000	0.000
150.00	0.00	-0.09	0.00	0.00	0.00	0.00	1115.76	557.88	1368.94	685.49	59.89	-3.348	0.000	0.000

Wind Loading - Shaft

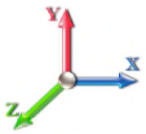
Structure:	CT13073-A-SBA	**Code:**	TIA-222-G	3/11/2022	
Site Name:	Groton North	**Exposure:**	B		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 12	

Tower Engineering Solutions

Load Case: 0.9D + 1.6W 105 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 21

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	18.769	20.65	446.02	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	18.769	20.65	438.23	0.650	0.000	5.00	25.164	16.36	540.3	0.0	1433.1
10.00		1.00	0.70	18.769	20.65	430.44	0.650	0.000	5.00	24.720	16.07	530.8	0.0	1407.6
15.00		1.00	0.70	18.769	20.65	422.64	0.650	0.000	5.00	24.277	15.78	521.3	0.0	1382.2
20.00		1.00	0.70	18.769	20.65	414.85	0.650	0.000	5.00	23.833	15.49	511.7	0.0	1356.7
25.00		1.00	0.70	18.769	20.65	407.06	0.650	0.000	5.00	23.390	15.20	502.2	0.0	1331.2
30.00		1.00	0.70	18.785	20.66	399.43	0.650	0.000	5.00	22.946	14.91	493.1	0.0	1305.7
35.00		1.00	0.73	19.631	21.59	400.36	0.650	0.000	5.00	22.503	14.63	505.4	0.0	1280.3
40.00		1.00	0.76	20.394	22.43	399.94	0.650	0.000	5.00	22.059	14.34	514.7	0.0	1254.8
41.50	Bot - Section 2	1.00	0.77	20.610	22.67	399.60	0.650	0.000	1.50	6.531	4.25	154.0	0.0	371.5
45.00		1.00	0.79	21.092	23.20	398.47	0.650	0.000	3.50	15.343	9.97	370.2	0.0	1622.4
48.00	Top - Section 1	1.00	0.80	21.485	23.63	397.16	0.650	0.000	3.00	12.979	8.44	319.0	0.0	1372.0
50.00		1.00	0.81	21.737	23.91	403.12	0.650	0.000	2.00	8.564	5.57	212.9	0.0	426.6
55.00		1.00	0.83	22.337	24.57	400.15	0.650	0.000	5.00	21.099	13.71	539.1	0.0	1051.0
60.00		1.00	0.85	22.899	25.19	396.55	0.650	0.000	5.00	20.655	13.43	541.1	0.0	1028.7
65.00		1.00	0.87	23.429	25.77	392.40	0.650	0.000	5.00	20.212	13.14	541.7	0.0	1006.4
70.00		1.00	0.89	23.930	26.32	387.78	0.650	0.000	5.00	19.768	12.85	541.2	0.0	984.1
75.00		1.00	0.91	24.406	26.85	382.73	0.650	0.000	5.00	19.324	12.56	539.6	0.0	961.8
80.00		1.00	0.93	24.861	27.35	377.31	0.650	0.000	5.00	18.881	12.27	537.0	0.0	939.6
84.00	Bot - Section 3	1.00	0.94	25.210	27.73	372.72	0.650	0.000	4.00	14.785	9.61	426.4	0.0	735.6
85.00		1.00	0.94	25.295	27.82	371.54	0.650	0.000	1.00	3.705	2.41	107.2	0.0	313.7
89.50	Top - Section 2	1.00	0.96	25.671	28.24	366.09	0.650	0.000	4.50	16.452	10.69	483.2	0.0	1392.8
90.00		1.00	0.96	25.711	28.28	370.90	0.650	0.000	0.50	1.806	1.17	53.1	0.0	64.3
95.00		1.00	0.97	26.112	28.72	364.59	0.650	0.000	5.00	17.815	11.58	532.2	0.0	634.7
100.00		1.00	0.99	26.497	29.15	358.01	0.650	0.000	5.00	17.371	11.29	526.6	0.0	618.8
105.00		1.00	1.00	26.869	29.56	351.19	0.650	0.000	5.00	16.928	11.00	520.3	0.0	602.9
108.00	Appurtenance(s)	1.00	1.01	27.086	29.79	346.99	0.650	0.000	3.00	9.944	6.46	308.1	0.0	354.1
110.00		1.00	1.02	27.229	29.95	344.15	0.650	0.000	2.00	6.540	4.25	203.7	0.0	232.9
115.00		1.00	1.03	27.577	30.33	336.89	0.650	0.000	5.00	16.040	10.43	506.0	0.0	571.0
117.00	Appurtenance(s)	1.00	1.03	27.713	30.48	333.93	0.650	0.000	2.00	6.292	4.09	199.5	0.0	224.0
120.00		1.00	1.04	27.914	30.71	329.44	0.650	0.000	3.00	9.305	6.05	297.1	0.0	331.2
125.00		1.00	1.05	28.242	31.07	321.81	0.650	0.000	5.00	15.153	9.85	489.6	0.0	539.2
128.00	Appurtenance(s)	1.00	1.06	28.434	31.28	317.15	0.650	0.000	3.00	8.879	5.77	288.8	0.0	315.9
130.00	Top - Section 3	1.00	1.07	28.560	31.42	314.00	0.650	0.000	2.00	5.831	3.79	190.5	0.0	207.4
135.00		1.00	1.08	28.869	31.76	305.92	0.650	0.000	5.00	14.264	9.27	471.1	0.0	305.5
139.00	Appurtenance(s)	1.00	1.09	29.111	32.02	299.34	0.650	0.000	4.00	11.088	7.21	369.3	0.0	237.4
140.00		1.00	1.09	29.171	32.09	297.69	0.650	0.000	1.00	2.727	1.77	91.0	0.0	58.4
145.00		1.00	1.10	29.465	32.41	289.30	0.650	0.000	5.00	13.366	8.69	450.5	0.0	286.2
149.00	Appurtenance(s)	1.00	1.11	29.695	32.66	282.49	0.650	0.000	4.00	10.370	6.74	352.3	0.0	222.0
150.00		1.00	1.11	29.752	32.73	280.78	0.650	0.000	1.00	2.548	1.66	86.7	0.0	54.5
								Totals:	**150.00**			**15,368.5**		**28,818.4**

Discrete Appurtenance Forces

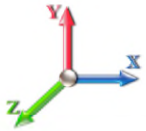
Structure:	CT13073-A-SBA	**Code:**	TIA-222-G	3/11/2022	
Site Name:	Groton North	**Exposure:**	B		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 13	

Tower Engineering Solutions

Load Case: 0.9D + 1.6W 105 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 21

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	149.00	Samsung MT6407-77A	3	29.695	32.664	0.52	0.75	7.39	214.38	0.000	0.000	386.05	0.00	0.00
2	149.00	Low Profile Platform	1	29.695	32.664	1.00	1.00	22.00	1350.00	0.000	0.000	1149.79	0.00	0.00
3	149.00	Andrew LNX-6512DS-A1M	3	29.695	32.664	0.60	0.75	9.16	75.06	0.000	0.000	478.83	0.00	0.00
4	149.00	JMA MX06FR0660-02	6	29.695	32.664	0.65	0.75	38.64	248.40	0.000	0.000	2019.50	0.00	0.00
5	149.00	HRK12-HD	1	29.695	32.664	1.00	1.00	15.30	365.95	0.000	0.000	799.63	0.00	0.00
6	149.00	Samsung RF4440d-13A	3	29.695	32.664	0.50	0.75	2.20	169.56	0.000	0.000	115.03	0.00	0.00
7	149.00	Samsung RF4439d-25A	3	29.695	32.664	0.50	0.75	2.20	169.56	0.000	0.000	115.03	0.00	0.00
8	149.00	Raycap	1	29.695	32.664	0.75	0.75	3.04	28.80	0.000	0.000	159.14	0.00	0.00
9	139.00	RMQP-4096-HK	1	29.111	32.022	1.00	1.00	51.70	2380.50	0.000	0.000	2648.90	0.00	0.00
10	139.00	Radio 4415 B25	4	29.111	32.022	0.50	0.75	3.30	165.60	0.000	0.000	168.89	0.00	0.00
11	139.00	4424 B25	3	29.111	32.022	0.50	0.75	3.09	237.60	0.000	0.000	158.34	0.00	0.00
12	139.00	4449 B71 + B85	3	29.111	32.022	0.50	0.75	2.97	197.64	0.000	0.000	152.16	0.00	0.00
13	139.00	AIR6449 B41	3	29.111	32.022	0.53	0.75	9.03	278.10	0.000	0.000	462.45	0.00	0.00
14	139.00	APXVAARR24_43-U-NA2	3	29.111	32.022	0.52	0.75	31.88	345.60	0.000	0.000	1633.30	0.00	0.00
15	139.00	Air 3246 B66	3	29.111	32.022	0.62	0.75	14.83	486.00	0.000	0.000	759.72	0.00	0.00
16	128.00	7770.00A	3	28.434	31.277	0.58	0.80	9.57	72.90	0.000	0.000	479.07	0.00	0.00
17	128.00	HPA-65R-BU8AA	2	28.434	31.277	0.69	0.80	15.45	97.20	0.000	0.000	773.29	0.00	0.00
18	128.00	Low Profile Platform	1	28.434	31.277	1.00	1.00	22.00	1440.00	0.000	0.000	1100.95	0.00	0.00
19	128.00	HPA-65R-BU4AA	1	28.434	31.277	0.75	0.80	3.70	25.83	0.000	0.000	185.15	0.00	0.00
20	128.00	DMP65R-BU4DA	1	28.434	31.277	0.79	0.80	6.56	62.73	0.000	0.000	328.17	0.00	0.00
21	128.00	DC6-48-60-18-8F	2	28.434	31.277	0.80	0.80	1.47	57.24	0.000	0.000	73.66	0.00	0.00
22	128.00	DMP65R-BU8DA	2	28.434	31.277	0.58	0.80	20.59	172.26	0.000	0.000	1030.20	0.00	0.00
23	128.00	4449	3	28.434	31.277	0.54	0.80	2.65	189.00	0.000	0.000	132.77	0.00	0.00
24	128.00	B2 B66A 8843	3	28.434	31.277	0.54	0.80	2.64	189.00	0.000	0.000	131.97	0.00	0.00
25	117.00	MC-PK8-DSH	1	27.713	30.484	1.00	1.00	37.59	1554.30	0.000	0.000	1833.44	0.00	0.00
26	117.00	RDIDC-9181-PF-48	1	27.713	30.484	0.38	0.75	0.75	19.71	0.000	0.000	36.76	0.00	0.00
27	117.00	TA08025-B604	3	27.713	30.484	0.50	0.75	2.95	172.53	0.000	0.000	144.11	0.00	0.00
28	117.00	TA08025-B605	3	27.713	30.484	0.50	0.75	2.95	202.50	0.000	0.000	144.11	0.00	0.00
29	117.00	MX08FRO665-21	3	27.713	30.484	0.55	0.75	20.80	174.15	0.000	0.000	1014.31	0.00	0.00
30	108.00	Chain / Bracket	1	27.086	29.795	1.00	1.00	2.50	198.00	0.000	0.000	119.18	0.00	0.00
31	108.00	Electronics Research, Inc	1	27.086	29.795	1.00	1.00	4.60	7.92	0.000	0.000	219.29	0.00	0.00
							Totals:		**11,348.02**			**18,953.23**		

Total Applied Force Summary

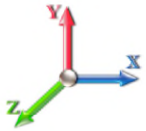
Structure:	CT13073-A-SBA		**Code:**	TIA-222-G	3/11/2022
Site Name:	Groton North		**Exposure:**	B	
Height:	150.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 14

Tower Engineering Solutions

Load Case: 0.9D + 1.6W 105 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 21

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		540.31	1528.46	0.00	0.00
10.00		530.79	1502.98	0.00	0.00
15.00		521.26	1477.51	0.00	0.00
20.00		511.74	1452.03	0.00	0.00
25.00		502.22	1426.56	0.00	0.00
30.00		493.11	1401.08	0.00	0.00
35.00		505.35	1375.61	0.00	0.00
40.00		514.66	1350.13	0.00	0.00
41.50		153.99	400.07	0.00	0.00
45.00		370.23	1689.16	0.00	0.00
48.00		318.99	1429.22	0.00	0.00
50.00		212.95	464.78	0.00	0.00
55.00		539.14	1146.35	0.00	0.00
60.00		541.09	1124.06	0.00	0.00
65.00		541.72	1101.77	0.00	0.00
70.00		541.17	1079.48	0.00	0.00
75.00		539.56	1057.18	0.00	0.00
80.00		536.98	1034.89	0.00	0.00
84.00		426.41	811.87	0.00	0.00
85.00		107.21	332.78	0.00	0.00
89.50		483.16	1478.59	0.00	0.00
90.00		53.12	73.88	0.00	0.00
95.00		532.16	730.08	0.00	0.00
100.00		526.57	714.15	0.00	0.00
105.00		520.33	698.23	0.00	0.00
108.00	(2) attachments	646.59	617.22	0.00	0.00
110.00		203.73	270.73	0.00	0.00
115.00		506.04	665.67	0.00	0.00
117.00	(11) attachments	3372.23	2385.00	0.00	0.00
120.00		297.14	385.24	0.00	0.00
125.00		489.58	629.32	0.00	0.00
128.00	(18) attachments	4524.06	2676.11	0.00	0.00
130.00		190.50	229.05	0.00	0.00
135.00		471.08	359.62	0.00	0.00
139.00	(20) attachments	6353.02	4371.78	0.00	0.00
140.00		91.01	65.47	0.00	0.00
145.00		450.54	321.57	0.00	0.00
149.00	(21) attachments	5575.27	2872.00	0.00	0.00
150.00		86.71	54.53	0.00	0.00
	Totals:	**34,321.68**	**42,784.20**	**0.00**	**0.00**

Calculated Forces

Structure:	CT13073-A-SBA	**Code:**	TIA-222-G	3/11/2022	
Site Name:	Groton North	**Exposure:**	B		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 15	

Load Case: 0.9D + 1.6W 105 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60

Iterations 21

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-42.75	-34.37	0.00	-3804.1	0.00	3804.13	6643.18	3321.59	16232.9	8128.53	0.00	0.000	0.000	0.475
5.00	-41.14	-33.92	0.00	-3632.2	0.00	3632.29	6562.43	3281.22	15750.7	7887.07	0.07	-0.125	0.000	0.467
10.00	-39.57	-33.47	0.00	-3462.7	0.00	3462.71	6480.38	3240.19	15272.4	7647.59	0.27	-0.251	0.000	0.459
15.00	-38.02	-33.02	0.00	-3295.3	0.00	3295.36	6397.03	3198.52	14798.3	7410.16	0.60	-0.378	0.000	0.451
20.00	-36.50	-32.58	0.00	-3130.2	0.00	3130.25	6312.38	3156.19	14328.4	7174.88	1.06	-0.505	0.000	0.442
25.00	-35.01	-32.14	0.00	-2967.3	0.00	2967.34	6226.42	3113.21	13863.0	6941.83	1.66	-0.633	0.000	0.433
30.00	-33.54	-31.71	0.00	-2806.6	0.00	2806.62	6139.16	3069.58	13402.2	6711.09	2.39	-0.761	0.000	0.424
35.00	-32.10	-31.26	0.00	-2648.0	0.00	2648.07	6050.60	3025.30	12946.2	6482.75	3.26	-0.890	0.000	0.414
40.00	-30.72	-30.76	0.00	-2491.7	0.00	2491.79	5960.74	2980.37	12495.2	6256.90	4.26	-1.018	0.000	0.404
41.50	-30.28	-30.64	0.00	-2445.6	0.00	2445.65	5933.53	2966.76	12360.9	6189.64	4.59	-1.058	0.000	0.400
45.00	-28.56	-30.28	0.00	-2338.4	0.00	2338.42	5869.58	2934.79	12049.3	6033.61	5.40	-1.148	0.000	0.393
48.00	-27.10	-29.96	0.00	-2247.5	0.00	2247.59	4971.57	2485.79	10282.0	5148.64	6.15	-1.226	0.000	0.442
50.00	-26.59	-29.78	0.00	-2187.6	0.00	2187.68	4942.60	2471.30	10136.2	5075.65	6.67	-1.278	0.000	0.437
55.00	-25.39	-29.27	0.00	-2038.7	0.00	2038.78	4869.24	2434.62	9774.42	4894.48	8.08	-1.416	0.000	0.422
60.00	-24.21	-28.76	0.00	-1892.4	0.00	1892.41	4794.58	2397.29	9416.42	4715.21	9.64	-1.552	0.000	0.407
65.00	-23.06	-28.24	0.00	-1748.6	0.00	1748.60	4718.63	2359.31	9062.39	4537.93	11.34	-1.687	0.000	0.390
70.00	-21.93	-27.72	0.00	-1607.3	0.00	1607.39	4641.37	2320.68	8712.52	4362.74	13.18	-1.819	0.000	0.373
75.00	-20.83	-27.19	0.00	-1468.7	0.00	1468.79	4562.80	2281.40	8366.97	4189.70	15.15	-1.949	0.000	0.355
80.00	-19.77	-26.66	0.00	-1332.8	0.00	1332.83	4482.94	2241.47	8025.91	4018.92	17.26	-2.076	0.000	0.336
84.00	-18.94	-26.22	0.00	-1226.2	0.00	1226.20	4418.04	2209.02	7756.28	3883.90	19.05	-2.176	0.000	0.320
85.00	-18.58	-26.12	0.00	-1199.9	0.00	1199.97	4396.40	2198.20	7680.13	3845.78	19.50	-2.201	0.000	0.316
89.50	-17.10	-25.60	0.00	-1082.4	0.00	1082.42	2828.72	1414.36	4933.25	2470.29	21.63	-2.309	0.000	0.445
90.00	-16.99	-25.57	0.00	-1069.6	0.00	1069.62	2824.36	1412.18	4913.38	2460.34	21.87	-2.321	0.000	0.441
95.00	-16.22	-25.05	0.00	-941.77	0.00	941.77	2780.02	1390.01	4715.55	2361.28	24.39	-2.472	0.000	0.405
100.00	-15.47	-24.53	0.00	-816.52	0.00	816.52	2734.38	1367.19	4519.43	2263.07	27.05	-2.614	0.000	0.367
105.00	-14.75	-24.00	0.00	-693.88	0.00	693.88	2687.43	1343.72	4325.17	2165.80	29.86	-2.745	0.000	0.326
108.00	-14.14	-23.34	0.00	-621.88	0.00	621.88	2658.64	1329.32	4209.58	2107.92	31.61	-2.820	0.000	0.301
110.00	-13.85	-23.14	0.00	-575.19	0.00	575.19	2639.19	1319.59	4132.95	2069.55	32.80	-2.867	0.000	0.283
115.00	-13.19	-22.62	0.00	-459.48	0.00	459.48	2589.64	1294.82	3942.93	1974.40	35.86	-2.973	0.000	0.238
117.00	-10.96	-19.14	0.00	-414.24	0.00	414.24	2569.45	1284.73	3867.58	1936.67	37.12	-3.012	0.000	0.218
120.00	-10.57	-18.83	0.00	-356.83	0.00	356.83	2538.79	1269.39	3755.30	1880.44	39.03	-3.066	0.000	0.194
125.00	-9.95	-18.32	0.00	-262.67	0.00	262.67	2486.64	1243.32	3570.20	1787.76	42.28	-3.141	0.000	0.151
128.00	-7.53	-13.66	0.00	-207.71	0.00	207.71	2454.72	1227.36	3460.44	1732.79	44.27	-3.178	0.000	0.123
130.00	-7.30	-13.46	0.00	-180.39	0.00	180.39	2433.18	1216.59	3387.83	1696.43	45.60	-3.200	0.000	0.109
130.00	-7.30	-13.46	0.00	-180.39	0.00	180.39	1188.95	594.48	1667.65	835.07	45.60	-3.200	0.000	0.223
135.00	-6.96	-12.97	0.00	-113.10	0.00	113.10	1172.65	586.33	1593.28	797.82	48.98	-3.243	0.000	0.148
139.00	-2.95	-6.38	0.00	-61.20	0.00	61.20	1158.65	579.33	1533.54	767.91	51.71	-3.279	0.000	0.082
140.00	-2.89	-6.29	0.00	-54.82	0.00	54.82	1155.02	577.51	1518.58	760.42	52.40	-3.286	0.000	0.075
145.00	-2.59	-5.82	0.00	-23.38	0.00	23.38	1136.06	568.03	1443.74	722.95	55.85	-3.309	0.000	0.035
149.00	-0.05	-0.09	0.00	-0.09	0.00	0.09	1119.92	559.96	1383.89	692.97	58.63	-3.315	0.000	0.000
150.00	0.00	-0.09	0.00	0.00	0.00	0.00	1115.76	557.88	1368.94	685.49	59.32	-3.315	0.000	0.000

Wind Loading - Shaft

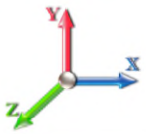
Structure:	CT13073-A-SBA	**Code:**	TIA-222-G	3/11/2022	
Site Name:	Groton North	**Exposure:**	B		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 16	

Tower Engineering Solutions

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 20

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	4.256	4.68	0.00	1.200	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	4.256	4.68	0.00	1.200	1.242	5.00	26.199	31.44	147.2	468.4	2379.2
10.00		1.00	0.70	4.256	4.68	0.00	1.200	1.331	5.00	25.830	31.00	145.1	494.0	2370.8
15.00		1.00	0.70	4.256	4.68	0.00	1.200	1.386	5.00	25.432	30.52	142.9	505.8	2348.7
20.00		1.00	0.70	4.256	4.68	0.00	1.200	1.427	5.00	25.022	30.03	140.6	511.5	2320.4
25.00		1.00	0.70	4.256	4.68	0.00	1.200	1.459	5.00	24.605	29.53	138.2	513.8	2288.7
30.00		1.00	0.70	4.260	4.69	0.00	1.200	1.486	5.00	24.184	29.02	136.0	513.7	2254.7
35.00		1.00	0.73	4.451	4.90	0.00	1.200	1.509	5.00	23.760	28.51	139.6	512.0	2219.0
40.00		1.00	0.76	4.625	5.09	0.00	1.200	1.529	5.00	23.333	28.00	142.4	509.0	2182.1
41.50	Bot - Section 2	1.00	0.77	4.673	5.14	0.00	1.200	1.535	1.50	6.915	8.30	42.7	152.4	647.7
45.00		1.00	0.79	4.783	5.26	0.00	1.200	1.547	3.50	16.246	19.50	102.6	359.5	2522.7
48.00	Top - Section 1	1.00	0.80	4.872	5.36	0.00	1.200	1.557	3.00	13.757	16.51	88.5	306.5	2135.8
50.00		1.00	0.81	4.929	5.42	0.00	1.200	1.564	2.00	9.085	10.90	59.1	203.5	772.4
55.00		1.00	0.83	5.065	5.57	0.00	1.200	1.579	5.00	22.414	26.90	149.9	503.5	1904.9
60.00		1.00	0.85	5.193	5.71	0.00	1.200	1.592	5.00	21.982	26.38	150.7	497.6	1869.2
65.00		1.00	0.87	5.313	5.84	0.00	1.200	1.605	5.00	21.549	25.86	151.1	491.2	1833.1
70.00		1.00	0.89	5.426	5.97	0.00	1.200	1.617	5.00	21.116	25.34	151.2	484.3	1796.5
75.00		1.00	0.91	5.534	6.09	0.00	1.200	1.628	5.00	20.681	24.82	151.1	477.1	1759.5
80.00		1.00	0.93	5.637	6.20	0.00	1.200	1.639	5.00	20.247	24.30	150.7	469.5	1722.2
84.00	Bot - Section 3	1.00	0.94	5.716	6.29	0.00	1.200	1.647	4.00	15.883	19.06	119.9	370.6	1351.4
85.00		1.00	0.94	5.736	6.31	0.00	1.200	1.649	1.00	3.980	4.78	30.1	93.6	511.9
89.50	Top - Section 2	1.00	0.96	5.821	6.40	0.00	1.200	1.657	4.50	17.695	21.23	136.0	414.7	2271.8
90.00		1.00	0.96	5.830	6.41	0.00	1.200	1.658	0.50	1.944	2.33	15.0	46.0	131.8
95.00		1.00	0.97	5.921	6.51	0.00	1.200	1.667	5.00	19.204	23.04	150.1	451.6	1297.9
100.00		1.00	0.99	6.008	6.61	0.00	1.200	1.676	5.00	18.768	22.52	148.8	443.0	1268.1
105.00		1.00	1.00	6.093	6.70	0.00	1.200	1.684	5.00	18.331	22.00	147.4	434.2	1238.1
108.00	Appurtenance(s)	1.00	1.01	6.142	6.76	0.00	1.200	1.689	3.00	10.788	12.95	87.5	257.3	729.4
110.00		1.00	1.02	6.174	6.79	0.00	1.200	1.692	2.00	7.104	8.53	57.9	170.1	480.6
115.00		1.00	1.03	6.253	6.88	0.00	1.200	1.699	5.00	17.457	20.95	144.1	416.0	1177.4
117.00	Appurtenance(s)	1.00	1.03	6.284	6.91	0.00	1.200	1.702	2.00	6.859	8.23	56.9	164.9	463.5
120.00		1.00	1.04	6.330	6.96	0.00	1.200	1.707	3.00	10.158	12.19	84.9	244.0	685.5
125.00		1.00	1.05	6.404	7.04	0.00	1.200	1.714	5.00	16.581	19.90	140.2	397.1	1116.1
128.00	Appurtenance(s)	1.00	1.06	6.448	7.09	0.00	1.200	1.718	3.00	9.738	11.69	82.9	234.8	656.0
130.00	Top - Section 3	1.00	1.07	6.476	7.12	0.00	1.200	1.720	2.00	6.404	7.68	54.7	155.0	431.5
135.00		1.00	1.08	6.546	7.20	0.00	1.200	1.727	5.00	15.703	18.84	135.7	377.5	784.8
139.00	Appurtenance(s)	1.00	1.09	6.601	7.26	0.00	1.200	1.732	4.00	12.242	14.69	106.7	295.6	612.1
140.00		1.00	1.09	6.615	7.28	0.00	1.200	1.733	1.00	3.016	3.62	26.3	73.5	151.3
145.00		1.00	1.10	6.681	7.35	0.00	1.200	1.739	5.00	14.815	17.78	130.7	357.2	738.8
149.00	Appurtenance(s)	1.00	1.11	6.734	7.41	0.00	1.200	1.744	4.00	11.532	13.84	102.5	279.2	575.1
150.00		1.00	1.11	6.746	7.42	0.00	1.200	1.745	1.00	2.838	3.41	25.3	69.4	142.1
								Totals:	**150.00**			**4,312.9**		**52,142.9**

Discrete Appurtenance Forces

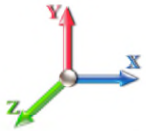
Structure:	CT13073-A-SBA	**Code:**	TIA-222-G	3/11/2022	
Site Name:	Groton North	**Exposure:**	B		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 17	

Tower Engineering Solutions

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 20

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	149.00	Samsung MT6407-77A	3	6.734	7.407	0.52	0.75	8.88	644.17	0.000	0.000	65.76	0.00	0.00
2	149.00	Low Profile Platform	1	6.734	7.407	1.00	1.00	39.65	2808.04	0.000	0.000	293.68	0.00	0.00
3	149.00	Andrew LNX-6512DS-A1M	3	6.734	7.407	0.60	0.75	12.56	360.07	0.000	0.000	93.05	0.00	0.00
4	149.00	JMA MX06FR0660-02	6	6.734	7.407	0.65	0.75	44.02	1943.80	0.000	0.000	326.08	0.00	0.00
5	149.00	HRK12-HD	1	6.734	7.407	1.00	1.00	30.24	1376.76	0.000	0.000	224.01	0.00	0.00
6	149.00	Samsung RF4440d-13A	3	6.734	7.407	0.50	0.75	2.94	326.89	0.000	0.000	21.80	0.00	0.00
7	149.00	Samsung RF4439d-25A	3	6.734	7.407	0.50	0.75	2.94	326.89	0.000	0.000	21.80	0.00	0.00
8	149.00	Raycap	1	6.734	7.407	0.75	0.75	3.66	127.05	0.000	0.000	27.12	0.00	0.00
9	139.00	RMQP-4096-HK	1	6.601	7.261	1.00	1.00	89.67	5167.64	0.000	0.000	651.10	0.00	0.00
10	139.00	Radio 4415 B25	4	6.601	7.261	0.50	0.75	4.32	346.37	0.000	0.000	31.40	0.00	0.00
11	139.00	4424 B25	3	6.601	7.261	0.50	0.75	3.98	573.57	0.000	0.000	28.91	0.00	0.00
12	139.00	4449 B71 + B85	3	6.601	7.261	0.50	0.75	3.82	260.23	0.000	0.000	27.75	0.00	0.00
13	139.00	AIR6449 B41	3	6.601	7.261	0.55	0.75	10.83	683.94	0.000	0.000	78.64	0.00	0.00
14	139.00	APXVAARR24_43-U-NA2	3	6.601	7.261	0.54	0.75	35.84	1703.88	0.000	0.000	260.27	0.00	0.00
15	139.00	Air 3246 B66	3	6.601	7.261	0.64	0.75	17.43	1101.97	0.000	0.000	126.54	0.00	0.00
16	128.00	7770.00A	3	6.448	7.092	0.59	0.80	13.57	336.59	0.000	0.000	96.25	0.00	0.00
17	128.00	HPA-65R-BU8AA	2	6.448	7.092	0.70	0.80	18.12	652.80	0.000	0.000	128.49	0.00	0.00
18	128.00	Low Profile Platform	1	6.448	7.092	1.00	1.00	39.38	3094.20	0.000	0.000	279.32	0.00	0.00
19	128.00	HPA-65R-BU4AA	1	6.448	7.092	0.77	0.80	4.50	111.35	0.000	0.000	31.88	0.00	0.00
20	128.00	DMP65R-BU4DA	1	6.448	7.092	0.79	0.80	7.27	321.87	0.000	0.000	51.55	0.00	0.00
21	128.00	DC6-48-60-18-8F	2	6.448	7.092	0.80	0.80	2.16	162.62	0.000	0.000	15.33	0.00	0.00
22	128.00	DMP65R-BU8DA	2	6.448	7.092	0.59	0.80	23.56	826.53	0.000	0.000	167.07	0.00	0.00
23	128.00	4449	3	6.448	7.092	0.54	0.80	3.50	452.70	0.000	0.000	24.84	0.00	0.00
24	128.00	B2 B66A 8843	3	6.448	7.092	0.54	0.80	3.45	353.88	0.000	0.000	24.50	0.00	0.00
25	117.00	MC-PK8-DSH	1	6.284	6.913	1.00	1.00	83.66	3345.81	0.000	0.000	578.33	0.00	0.00
26	117.00	RDIDC-9181-PF-48	1	6.284	6.913	0.38	0.75	0.96	65.52	0.000	0.000	6.65	0.00	0.00
27	117.00	TA08025-B604	3	6.284	6.913	0.50	0.75	3.78	341.90	0.000	0.000	26.13	0.00	0.00
28	117.00	TA08025-B605	3	6.284	6.913	0.50	0.75	3.78	385.26	0.000	0.000	26.13	0.00	0.00
29	117.00	MX08FRO665-21	3	6.284	6.913	0.55	0.75	23.17	881.80	0.000	0.000	160.20	0.00	0.00
30	108.00	Chain / Bracket	1	6.142	6.756	1.00	1.00	5.03	464.23	0.000	0.000	34.01	0.00	0.00
31	108.00	Electronics Research, Inc	1	6.142	6.756	1.00	1.00	5.95	61.11	0.000	0.000	40.21	0.00	0.00
							Totals:		**29,609.45**			**3,968.75**		

Total Applied Force Summary

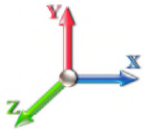
Structure:	CT13073-A-SBA	**Code:**	TIA-222-G	3/11/2022	
Site Name:	Groton North	**Exposure:**	B		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 18	

Tower Engineering Solutions

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 20

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		147.18	2506.31	0.00	0.00
10.00		145.11	2497.95	0.00	0.00
15.00		142.88	2475.79	0.00	0.00
20.00		140.57	2447.56	0.00	0.00
25.00		138.23	2415.85	0.00	0.00
30.00		135.98	2381.82	0.00	0.00
35.00		139.61	2346.13	0.00	0.00
40.00		142.43	2309.20	0.00	0.00
41.50		42.66	685.81	0.00	0.00
45.00		102.57	2611.69	0.00	0.00
48.00		88.47	2212.12	0.00	0.00
50.00		59.11	823.25	0.00	0.00
55.00		149.86	2031.98	0.00	0.00
60.00		150.67	1996.33	0.00	0.00
65.00		151.12	1960.19	0.00	0.00
70.00		151.25	1923.62	0.00	0.00
75.00		151.08	1886.66	0.00	0.00
80.00		150.66	1849.37	0.00	0.00
84.00		119.85	1453.08	0.00	0.00
85.00		30.13	537.32	0.00	0.00
89.50		135.97	2386.18	0.00	0.00
90.00		14.96	144.51	0.00	0.00
95.00		150.09	1425.05	0.00	0.00
100.00		148.85	1395.22	0.00	0.00
105.00		147.43	1365.18	0.00	0.00
108.00	(2) attachments	161.68	1331.03	0.00	0.00
110.00		57.90	531.04	0.00	0.00
115.00		144.09	1303.56	0.00	0.00
117.00	(11) attachments	854.33	5534.29	0.00	0.00
120.00		84.87	757.63	0.00	0.00
125.00		140.17	1236.22	0.00	0.00
128.00	(18) attachments	902.10	7040.63	0.00	0.00
130.00		54.75	460.38	0.00	0.00
135.00		135.69	857.00	0.00	0.00
139.00	(20) attachments	1311.27	10507.48	0.00	0.00
140.00		26.33	160.78	0.00	0.00
145.00		130.66	785.98	0.00	0.00
149.00	(21) attachments	1175.78	8526.56	0.00	0.00
150.00		25.28	142.08	0.00	0.00
	Totals:	**8,281.62**	**85,242.81**	**0.00**	**0.00**

Calculated Forces

Structure:	CT13073-A-SBA	**Code:**	TIA-222-G	3/11/2022	
Site Name:	Groton North	**Exposure:**	B		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 19	

Tower Engineering Solutions

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 20

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-85.24	-8.30	0.00	-908.57	0.00	908.57	6643.18	3321.59	16232.9	8128.53	0.00	0.000	0.000	0.125
5.00	-82.73	-8.20	0.00	-867.05	0.00	867.05	6562.43	3281.22	15750.7	7887.07	0.02	-0.030	0.000	0.123
10.00	-80.23	-8.09	0.00	-826.06	0.00	826.06	6480.38	3240.19	15272.4	7647.59	0.06	-0.060	0.000	0.120
15.00	-77.75	-7.99	0.00	-785.59	0.00	785.59	6397.03	3198.52	14798.3	7410.16	0.14	-0.090	0.000	0.118
20.00	-75.30	-7.88	0.00	-745.64	0.00	745.64	6312.38	3156.19	14328.4	7174.88	0.25	-0.121	0.000	0.116
25.00	-72.88	-7.78	0.00	-706.22	0.00	706.22	6226.42	3113.21	13863.0	6941.83	0.40	-0.151	0.000	0.113
30.00	-70.49	-7.67	0.00	-667.33	0.00	667.33	6139.16	3069.58	13402.2	6711.09	0.57	-0.182	0.000	0.111
35.00	-68.14	-7.56	0.00	-628.96	0.00	628.96	6050.60	3025.30	12946.2	6482.75	0.78	-0.212	0.000	0.108
40.00	-65.83	-7.43	0.00	-591.16	0.00	591.16	5960.74	2980.37	12495.2	6256.90	1.02	-0.243	0.000	0.106
41.50	-65.14	-7.41	0.00	-580.01	0.00	580.01	5933.53	2966.76	12360.9	6189.64	1.09	-0.252	0.000	0.105
45.00	-62.53	-7.31	0.00	-554.09	0.00	554.09	5869.58	2934.79	12049.3	6033.61	1.29	-0.273	0.000	0.102
48.00	-60.32	-7.23	0.00	-532.15	0.00	532.15	4971.57	2485.79	10282.0	5148.64	1.46	-0.292	0.000	0.115
50.00	-59.49	-7.19	0.00	-517.69	0.00	517.69	4942.60	2471.30	10136.2	5075.65	1.59	-0.304	0.000	0.114
55.00	-57.45	-7.06	0.00	-481.75	0.00	481.75	4869.24	2434.62	9774.42	4894.48	1.93	-0.337	0.000	0.110
60.00	-55.46	-6.93	0.00	-446.45	0.00	446.45	4794.58	2397.29	9416.42	4715.21	2.30	-0.369	0.000	0.106
65.00	-53.49	-6.79	0.00	-411.81	0.00	411.81	4718.63	2359.31	9062.39	4537.93	2.70	-0.401	0.000	0.102
70.00	-51.57	-6.66	0.00	-377.84	0.00	377.84	4641.37	2320.68	8712.52	4362.74	3.14	-0.432	0.000	0.098
75.00	-49.68	-6.52	0.00	-344.56	0.00	344.56	4562.80	2281.40	8366.97	4189.70	3.60	-0.462	0.000	0.093
80.00	-47.83	-6.37	0.00	-311.98	0.00	311.98	4482.94	2241.47	8025.91	4018.92	4.10	-0.492	0.000	0.088
84.00	-46.37	-6.25	0.00	-286.49	0.00	286.49	4418.04	2209.02	7756.28	3883.90	4.53	-0.515	0.000	0.084
85.00	-45.83	-6.23	0.00	-280.24	0.00	280.24	4396.40	2198.20	7680.13	3845.78	4.64	-0.521	0.000	0.083
89.50	-43.45	-6.08	0.00	-252.21	0.00	252.21	2828.72	1414.36	4933.25	2470.29	5.14	-0.546	0.000	0.117
90.00	-43.30	-6.08	0.00	-249.17	0.00	249.17	2824.36	1412.18	4913.38	2460.34	5.20	-0.549	0.000	0.117
95.00	-41.87	-5.94	0.00	-218.77	0.00	218.77	2780.02	1390.01	4715.55	2361.28	5.79	-0.584	0.000	0.108
100.00	-40.48	-5.80	0.00	-189.07	0.00	189.07	2734.38	1367.19	4519.43	2263.07	6.42	-0.617	0.000	0.098
105.00	-39.11	-5.65	0.00	-160.07	0.00	160.07	2687.43	1343.72	4325.17	2165.80	7.08	-0.648	0.000	0.088
108.00	-37.78	-5.49	0.00	-143.11	0.00	143.11	2658.64	1329.32	4209.58	2107.92	7.50	-0.665	0.000	0.082
110.00	-37.25	-5.43	0.00	-132.14	0.00	132.14	2639.19	1319.59	4132.95	2069.55	7.78	-0.676	0.000	0.078
115.00	-35.95	-5.28	0.00	-104.98	0.00	104.98	2589.64	1294.82	3942.93	1974.40	8.50	-0.700	0.000	0.067
117.00	-30.42	-4.37	0.00	-94.41	0.00	94.41	2569.45	1284.73	3867.58	1936.67	8.79	-0.709	0.000	0.061
120.00	-29.66	-4.28	0.00	-81.31	0.00	81.31	2538.79	1269.39	3755.30	1880.44	9.24	-0.721	0.000	0.055
125.00	-28.43	-4.13	0.00	-59.91	0.00	59.91	2486.64	1243.32	3570.20	1787.76	10.01	-0.738	0.000	0.045
128.00	-21.40	-3.14	0.00	-47.52	0.00	47.52	2454.72	1227.36	3460.44	1732.79	10.48	-0.747	0.000	0.036
130.00	-20.94	-3.08	0.00	-41.24	0.00	41.24	2433.18	1216.59	3387.83	1696.43	10.79	-0.752	0.000	0.033
130.00	-20.94	-3.08	0.00	-41.24	0.00	41.24	1188.95	594.48	1667.65	835.07	10.79	-0.752	0.000	0.067
135.00	-20.09	-2.94	0.00	-25.84	0.00	25.84	1172.65	586.33	1593.28	797.82	11.58	-0.761	0.000	0.050
139.00	-9.60	-1.49	0.00	-14.08	0.00	14.08	1158.65	579.33	1533.54	767.91	12.23	-0.770	0.000	0.027
140.00	-9.44	-1.46	0.00	-12.60	0.00	12.60	1155.02	577.51	1518.58	760.42	12.39	-0.771	0.000	0.025
145.00	-8.65	-1.32	0.00	-5.30	0.00	5.30	1136.06	568.03	1443.74	722.95	13.20	-0.777	0.000	0.015
149.00	-0.14	-0.03	0.00	-0.03	0.00	0.03	1119.92	559.96	1383.89	692.97	13.85	-0.778	0.000	0.000
150.00	0.00	-0.03	0.00	0.00	0.00	0.00	1115.76	557.88	1368.94	685.49	14.01	-0.778	0.000	0.000

Seismic Segment Forces (Factored)

Structure:	CT13073-A-SBA	**Code:**	TIA-222-G	3/11/2022	
Site Name:	Groton North	**Exposure:**	B		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 20	

Tower Engineering Solutions

Load Case:	1.2D + 1.0E					**Iterations**	19
Gust Response Factor	1.10			**Sds**	0.17	**Ss**	0.16
Dead Load Factor	1.20	**Seismic Load Factor**	1.00	**Sd1**	0.09	**S1**	0.06
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.40	**SA**	0.04	**Seismic Importance Factor**	1.00

Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	0.00	
5.00		1592.3	0.00	0.03	0.02	23.46	
10.00		1564.0	0.01	0.05	0.03	34.11	
15.00		1535.7	0.02	0.06	0.04	39.03	
20.00		1507.4	0.03	0.07	0.04	41.17	
25.00		1479.1	0.05	0.07	0.04	42.05	
30.00		1450.8	0.08	0.07	0.04	42.44	
35.00		1422.5	0.10	0.07	0.04	42.69	
40.00		1394.2	0.13	0.07	0.03	42.81	
41.50	Bot - Section 2	412.74	0.14	0.07	0.03	12.75	
45.00		1802.6	0.17	0.07	0.03	56.25	
48.00	Top - Section 1	1524.4	0.19	0.06	0.02	47.69	
50.00		474.05	0.21	0.06	0.02	14.79	
55.00		1167.7	0.25	0.05	0.02	35.32	
60.00		1143.0	0.30	0.04	0.01	31.81	
65.00		1118.2	0.35	0.03	0.01	26.20	
70.00		1093.4	0.41	0.01	0.01	18.29	
75.00		1068.7	0.47	-0.01	0.01	8.37	
80.00		1043.9	0.54	-0.03	0.01	-2.52	
84.00	Bot - Section 3	817.33	0.59	-0.05	0.01	-8.68	
85.00		348.57	0.61	-0.06	0.02	-4.37	
89.50	Top - Section 2	1547.5	0.67	-0.08	0.02	-31.20	
90.00		71.50	0.68	-0.08	0.03	-1.49	
95.00		705.26	0.76	-0.10	0.04	-18.31	
100.00		687.57	0.84	-0.12	0.07	-18.54	
105.00		669.88	0.93	-0.12	0.10	-15.75	
108.00	Appurtenance(s)	622.24	0.98	-0.11	0.12	-11.96	
110.00		258.75	1.02	-0.11	0.14	-4.00	
115.00		634.50	1.11	-0.06	0.19	-1.78	
117.00	Appurtenance(s)	2607.9	1.15	-0.04	0.22	9.27	
120.00		367.96	1.21	0.01	0.26	5.32	
125.00		599.11	1.31	0.14	0.35	21.77	
128.00	Appurtenance(s)	2913.3	1.38	0.24	0.41	150.64	
130.00	Top - Section 3	230.45	1.42	0.32	0.45	14.49	
135.00		339.44	1.53	0.58	0.58	31.97	
139.00	Appurtenance(s)	4809.4	1.62	0.85	0.70	589.96	
140.00		64.88	1.65	0.93	0.73	8.45	
145.00		317.96	1.77	1.39	0.92	54.47	
149.00	Appurtenance(s)	3159.6	1.86	1.85	1.09	656.35	
150.00		60.59	1.89	1.98	1.14	13.17	
	Totals:	**44,629.3**				**1,996.5**	**Total Wind:** **34,321.7**

Calculated Forces

Structure:	CT13073-A-SBA	**Code:**	TIA-222-G	3/11/2022	
Site Name:	Groton North	**Exposure:**	B		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 21	

Tower Engineering Solutions

Load Case: 1.2D + 1.0E

Gust Response Factor	1.10			**Sds**	0.17			**Iterations**	19
Dead Load Factor	1.20	**Seismic Load Factor**	1.00	**Sd1**	0.09			**Ss**	0.16
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.40	**SA**	0.04			**S1**	0.06
								Seismic Importance Factor	1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-57.05	-2.12	0.00	-249.21	0.00	249.21	6643.18	3321.59	16232.9	8128.53		0.00	0.00	0.039
5.00	-55.01	-2.10	0.00	-238.62	0.00	238.62	6562.43	3281.22	15750.7	7887.07		0.00	-0.01	0.039
10.00	-53.00	-2.08	0.00	-228.11	0.00	228.11	6480.38	3240.19	15272.4	7647.59		0.02	-0.02	0.038
15.00	-51.03	-2.04	0.00	-217.73	0.00	217.73	6397.03	3198.52	14798.3	7410.16		0.04	-0.02	0.037
20.00	-49.10	-2.01	0.00	-207.51	0.00	207.51	6312.38	3156.19	14328.4	7174.88		0.07	-0.03	0.037
25.00	-47.19	-1.97	0.00	-197.47	0.00	197.47	6226.42	3113.21	13863.0	6941.83		0.11	-0.04	0.036
30.00	-45.33	-1.94	0.00	-187.61	0.00	187.61	6139.16	3069.58	13402.2	6711.09		0.16	-0.05	0.035
35.00	-43.49	-1.90	0.00	-177.93	0.00	177.93	6050.60	3025.30	12946.2	6482.75		0.22	-0.06	0.035
40.00	-41.69	-1.86	0.00	-168.44	0.00	168.44	5960.74	2980.37	12495.2	6256.90		0.28	-0.07	0.034
41.50	-41.16	-1.85	0.00	-165.66	0.00	165.66	5933.53	2966.76	12360.9	6189.64		0.30	-0.07	0.034
45.00	-38.91	-1.79	0.00	-159.20	0.00	159.20	5869.58	2934.79	12049.3	6033.61		0.36	-0.08	0.033
48.00	-37.00	-1.74	0.00	-153.82	0.00	153.82	4971.57	2485.79	10282.0	5148.64		0.41	-0.08	0.037
50.00	-36.38	-1.73	0.00	-150.34	0.00	150.34	4942.60	2471.30	10136.2	5075.65		0.44	-0.09	0.037
55.00	-34.85	-1.70	0.00	-141.68	0.00	141.68	4869.24	2434.62	9774.42	4894.48		0.54	-0.09	0.036
60.00	-33.35	-1.67	0.00	-133.17	0.00	133.17	4794.58	2397.29	9416.42	4715.21		0.64	-0.10	0.035
65.00	-31.88	-1.65	0.00	-124.82	0.00	124.82	4718.63	2359.31	9062.39	4537.93		0.76	-0.11	0.034
70.00	-30.44	-1.63	0.00	-116.58	0.00	116.58	4641.37	2320.68	8712.52	4362.74		0.88	-0.12	0.033
75.00	-29.03	-1.62	0.00	-108.42	0.00	108.42	4562.80	2281.40	8366.97	4189.70		1.01	-0.13	0.032
80.00	-27.65	-1.63	0.00	-100.30	0.00	100.30	4482.94	2241.47	8025.91	4018.92		1.16	-0.14	0.031
84.00	-26.57	-1.63	0.00	-93.79	0.00	93.79	4418.04	2209.02	7756.28	3883.90		1.28	-0.15	0.030
85.00	-26.13	-1.63	0.00	-92.17	0.00	92.17	4396.40	2198.20	7680.13	3845.78		1.31	-0.15	0.030
89.50	-24.16	-1.62	0.00	-84.85	0.00	84.85	2828.72	1414.36	4933.25	2470.29		1.46	-0.16	0.043
90.00	-24.06	-1.63	0.00	-84.04	0.00	84.04	2824.36	1412.18	4913.38	2460.34		1.48	-0.16	0.043
95.00	-23.08	-1.63	0.00	-75.91	0.00	75.91	2780.02	1390.01	4715.55	2361.28		1.65	-0.17	0.040
100.00	-22.13	-1.63	0.00	-67.78	0.00	67.78	2734.38	1367.19	4519.43	2263.07		1.84	-0.18	0.038
105.00	-21.20	-1.63	0.00	-59.63	0.00	59.63	2687.43	1343.72	4325.17	2165.80		2.04	-0.20	0.035
108.00	-20.38	-1.63	0.00	-54.75	0.00	54.75	2658.64	1329.32	4209.58	2107.92		2.16	-0.20	0.034
110.00	-20.01	-1.63	0.00	-51.49	0.00	51.49	2639.19	1319.59	4132.95	2069.55		2.25	-0.21	0.032
115.00	-19.13	-1.63	0.00	-43.34	0.00	43.34	2589.64	1294.82	3942.93	1974.40		2.47	-0.22	0.029
117.00	-15.95	-1.61	0.00	-40.09	0.00	40.09	2569.45	1284.73	3867.58	1936.67		2.56	-0.22	0.027
120.00	-15.43	-1.60	0.00	-35.26	0.00	35.26	2538.79	1269.39	3755.30	1880.44		2.70	-0.23	0.025
125.00	-14.59	-1.58	0.00	-27.25	0.00	27.25	2486.64	1243.32	3570.20	1787.76		2.94	-0.23	0.021
128.00	-11.03	-1.41	0.00	-22.51	0.00	22.51	2454.72	1227.36	3460.44	1732.79		3.09	-0.24	0.017
130.00	-10.72	-1.40	0.00	-19.69	0.00	19.69	2433.18	1216.59	3387.83	1696.43		3.19	-0.24	0.016
130.00	-10.72	-1.40	0.00	-19.69	0.00	19.69	1188.95	594.48	1667.65	835.07		3.19	-0.24	0.033
135.00	-10.24	-1.37	0.00	-12.69	0.00	12.69	1172.65	586.33	1593.28	797.82		3.44	-0.24	0.025
139.00	-4.41	-0.75	0.00	-7.22	0.00	7.22	1158.65	579.33	1533.54	767.91		3.65	-0.25	0.013
140.00	-4.33	-0.74	0.00	-6.47	0.00	6.47	1155.02	577.51	1518.58	760.42		3.70	-0.25	0.012
145.00	-3.90	-0.69	0.00	-2.76	0.00	2.76	1136.06	568.03	1443.74	722.95		3.96	-0.25	0.007
149.00	-0.07	-0.01	0.00	-0.01	0.00	0.01	1119.92	559.96	1383.89	692.97		4.18	-0.25	0.000
150.00	0.00	-0.01	0.00	0.00	0.00	0.00	1115.76	557.88	1368.94	685.49		4.23	-0.25	0.000

Seismic Segment Forces (Factored)

Structure:	CT13073-A-SBA	**Code:**	TIA-222-G	3/11/2022	
Site Name:	Groton North	**Exposure:**	B		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 22	

Tower Engineering Solutions

Load Case:	0.9D + 1.0E					**Iterations**	19
Gust Response Factor	1.10			**Sds**	0.17	**Ss**	0.16
Dead Load Factor	0.90	**Seismic Load Factor**	1.00	**Sd1**	0.09	**S1**	0.06
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.40	**SA**	0.04	**Seismic Importance Factor**	1.00

Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	0.00	
5.00		1592.3	0.00	0.03	0.02	23.46	
10.00		1564.0	0.01	0.05	0.03	34.11	
15.00		1535.7	0.02	0.06	0.04	39.03	
20.00		1507.4	0.03	0.07	0.04	41.17	
25.00		1479.1	0.05	0.07	0.04	42.05	
30.00		1450.8	0.08	0.07	0.04	42.44	
35.00		1422.5	0.10	0.07	0.04	42.69	
40.00		1394.2	0.13	0.07	0.03	42.81	
41.50	Bot - Section 2	412.74	0.14	0.07	0.03	12.75	
45.00		1802.6	0.17	0.07	0.03	56.25	
48.00	Top - Section 1	1524.4	0.19	0.06	0.02	47.69	
50.00		474.05	0.21	0.06	0.02	14.79	
55.00		1167.7	0.25	0.05	0.02	35.32	
60.00		1143.0	0.30	0.04	0.01	31.81	
65.00		1118.2	0.35	0.03	0.01	26.20	
70.00		1093.4	0.41	0.01	0.01	18.29	
75.00		1068.7	0.47	-0.01	0.01	8.37	
80.00		1043.9	0.54	-0.03	0.01	-2.52	
84.00	Bot - Section 3	817.33	0.59	-0.05	0.01	-8.68	
85.00		348.57	0.61	-0.06	0.02	-4.37	
89.50	Top - Section 2	1547.5	0.67	-0.08	0.02	-31.20	
90.00		71.50	0.68	-0.08	0.03	-1.49	
95.00		705.26	0.76	-0.10	0.04	-18.31	
100.00		687.57	0.84	-0.12	0.07	-18.54	
105.00		669.88	0.93	-0.12	0.10	-15.75	
108.00	Appurtenance(s)	622.24	0.98	-0.11	0.12	-11.96	
110.00		258.75	1.02	-0.11	0.14	-4.00	
115.00		634.50	1.11	-0.06	0.19	-1.78	
117.00	Appurtenance(s)	2607.9	1.15	-0.04	0.22	9.27	
120.00		367.96	1.21	0.01	0.26	5.32	
125.00		599.11	1.31	0.14	0.35	21.77	
128.00	Appurtenance(s)	2913.3	1.38	0.24	0.41	150.64	
130.00	Top - Section 3	230.45	1.42	0.32	0.45	14.49	
135.00		339.44	1.53	0.58	0.58	31.97	
139.00	Appurtenance(s)	4809.4	1.62	0.85	0.70	589.96	
140.00		64.88	1.65	0.93	0.73	8.45	
145.00		317.96	1.77	1.39	0.92	54.47	
149.00	Appurtenance(s)	3159.6	1.86	1.85	1.09	656.35	
150.00		60.59	1.89	1.98	1.14	13.17	
	Totals:	**44,629.3**				**1,996.5**	**Total Wind:** **34,321.7**

Calculated Forces

Structure:	CT13073-A-SBA	**Code:**	TIA-222-G	3/11/2022	
Site Name:	Groton North	**Exposure:**	B		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 23	

Tower Engineering Solutions

Load Case: 0.9D + 1.0E

Iterations 19

Gust Response Factor	1.10			**Sds**	0.17			**Ss**	0.16
Dead Load Factor	0.90	**Seismic Load Factor**	1.00	**Sd1**	0.09			**S1**	0.06
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.40	**SA**	0.04	**Seismic Importance Factor**			1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-42.78	-2.12	0.00	-247.27	0.00	247.27	6643.18	3321.59	16232.9	8128.53		0.00	0.00	0.037
5.00	-41.26	-2.10	0.00	-236.68	0.00	236.68	6562.43	3281.22	15750.7	7887.07		0.00	-0.01	0.036
10.00	-39.75	-2.07	0.00	-226.18	0.00	226.18	6480.38	3240.19	15272.4	7647.59		0.02	-0.02	0.036
15.00	-38.27	-2.04	0.00	-215.83	0.00	215.83	6397.03	3198.52	14798.3	7410.16		0.04	-0.02	0.035
20.00	-36.82	-2.00	0.00	-205.64	0.00	205.64	6312.38	3156.19	14328.4	7174.88		0.07	-0.03	0.034
25.00	-35.40	-1.96	0.00	-195.64	0.00	195.64	6226.42	3113.21	13863.0	6941.83		0.11	-0.04	0.034
30.00	-33.99	-1.92	0.00	-185.83	0.00	185.83	6139.16	3069.58	13402.2	6711.09		0.16	-0.05	0.033
35.00	-32.62	-1.89	0.00	-176.21	0.00	176.21	6050.60	3025.30	12946.2	6482.75		0.21	-0.06	0.033
40.00	-31.27	-1.84	0.00	-166.78	0.00	166.78	5960.74	2980.37	12495.2	6256.90		0.28	-0.07	0.032
41.50	-30.87	-1.83	0.00	-164.02	0.00	164.02	5933.53	2966.76	12360.9	6189.64		0.30	-0.07	0.032
45.00	-29.18	-1.78	0.00	-157.60	0.00	157.60	5869.58	2934.79	12049.3	6033.61		0.35	-0.08	0.031
48.00	-27.75	-1.73	0.00	-152.27	0.00	152.27	4971.57	2485.79	10282.0	5148.64		0.40	-0.08	0.035
50.00	-27.28	-1.72	0.00	-148.81	0.00	148.81	4942.60	2471.30	10136.2	5075.65		0.44	-0.08	0.035
55.00	-26.14	-1.68	0.00	-140.22	0.00	140.22	4869.24	2434.62	9774.42	4894.48		0.53	-0.09	0.034
60.00	-25.01	-1.66	0.00	-131.80	0.00	131.80	4794.58	2397.29	9416.42	4715.21		0.63	-0.10	0.033
65.00	-23.91	-1.63	0.00	-123.52	0.00	123.52	4718.63	2359.31	9062.39	4537.93		0.75	-0.11	0.032
70.00	-22.83	-1.61	0.00	-115.37	0.00	115.37	4641.37	2320.68	8712.52	4362.74		0.87	-0.12	0.031
75.00	-21.77	-1.61	0.00	-107.30	0.00	107.30	4562.80	2281.40	8366.97	4189.70		1.00	-0.13	0.030
80.00	-20.74	-1.61	0.00	-99.26	0.00	99.26	4482.94	2241.47	8025.91	4018.92		1.15	-0.14	0.029
84.00	-19.93	-1.61	0.00	-92.83	0.00	92.83	4418.04	2209.02	7756.28	3883.90		1.27	-0.15	0.028
85.00	-19.59	-1.61	0.00	-91.23	0.00	91.23	4396.40	2198.20	7680.13	3845.78		1.30	-0.15	0.028
89.50	-18.12	-1.61	0.00	-83.99	0.00	83.99	2828.72	1414.36	4933.25	2470.29		1.45	-0.16	0.040
90.00	-18.04	-1.61	0.00	-83.19	0.00	83.19	2824.36	1412.18	4913.38	2460.34		1.46	-0.16	0.040
95.00	-17.31	-1.61	0.00	-75.15	0.00	75.15	2780.02	1390.01	4715.55	2361.28		1.64	-0.17	0.038
100.00	-16.60	-1.61	0.00	-67.11	0.00	67.11	2734.38	1367.19	4519.43	2263.07		1.82	-0.18	0.036
105.00	-15.90	-1.61	0.00	-59.06	0.00	59.06	2687.43	1343.72	4325.17	2165.80		2.02	-0.19	0.033
108.00	-15.28	-1.61	0.00	-54.23	0.00	54.23	2658.64	1329.32	4209.58	2107.92		2.14	-0.20	0.031
110.00	-15.01	-1.61	0.00	-51.01	0.00	51.01	2639.19	1319.59	4132.95	2069.55		2.23	-0.20	0.030
115.00	-14.34	-1.61	0.00	-42.96	0.00	42.96	2589.64	1294.82	3942.93	1974.40		2.45	-0.21	0.027
117.00	-11.96	-1.59	0.00	-39.74	0.00	39.74	2569.45	1284.73	3867.58	1936.67		2.54	-0.22	0.025
120.00	-11.57	-1.59	0.00	-34.96	0.00	34.96	2538.79	1269.39	3755.30	1880.44		2.68	-0.22	0.023
125.00	-10.94	-1.56	0.00	-27.03	0.00	27.03	2486.64	1243.32	3570.20	1787.76		2.92	-0.23	0.020
128.00	-8.27	-1.40	0.00	-22.34	0.00	22.34	2454.72	1227.36	3460.44	1732.79		3.06	-0.23	0.016
130.00	-8.04	-1.39	0.00	-19.54	0.00	19.54	2433.18	1216.59	3387.83	1696.43		3.16	-0.24	0.015
130.00	-8.04	-1.39	0.00	-19.54	0.00	19.54	1188.95	594.48	1667.65	835.07		3.16	-0.24	0.030
135.00	-7.68	-1.35	0.00	-12.60	0.00	12.60	1172.65	586.33	1593.28	797.82		3.41	-0.24	0.022
139.00	-3.31	-0.75	0.00	-7.18	0.00	7.18	1158.65	579.33	1533.54	767.91		3.62	-0.25	0.012
140.00	-3.24	-0.74	0.00	-6.43	0.00	6.43	1155.02	577.51	1518.58	760.42		3.67	-0.25	0.011
145.00	-2.92	-0.68	0.00	-2.74	0.00	2.74	1136.06	568.03	1443.74	722.95		3.93	-0.25	0.006
149.00	-0.05	-0.01	0.00	-0.01	0.00	0.01	1119.92	559.96	1383.89	692.97		4.14	-0.25	0.000
150.00	0.00	-0.01	0.00	0.00	0.00	0.00	1115.76	557.88	1368.94	685.49		4.19	-0.25	0.000

Wind Loading - Shaft

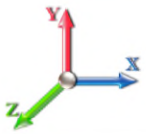
Structure:	CT13073-A-SBA	**Code:**	TIA-222-G	3/11/2022	
Site Name:	Groton North	**Exposure:**	B		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 24	

Tower Engineering Solutions

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 20

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	6.129	6.74	254.87	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	6.129	6.74	250.42	0.650	0.000	5.00	25.164	16.36	110.3	0.0	1592.4
10.00		1.00	0.70	6.129	6.74	245.96	0.650	0.000	5.00	24.720	16.07	108.3	0.0	1564.0
15.00		1.00	0.70	6.129	6.74	241.51	0.650	0.000	5.00	24.277	15.78	106.4	0.0	1535.7
20.00		1.00	0.70	6.129	6.74	237.06	0.650	0.000	5.00	23.833	15.49	104.4	0.0	1507.4
25.00		1.00	0.70	6.129	6.74	232.60	0.650	0.000	5.00	23.390	15.20	102.5	0.0	1479.1
30.00		1.00	0.70	6.134	6.75	228.25	0.650	0.000	5.00	22.946	14.91	100.6	0.0	1450.8
35.00		1.00	0.73	6.410	7.05	228.77	0.650	0.000	5.00	22.503	14.63	103.1	0.0	1422.5
40.00		1.00	0.76	6.659	7.33	228.54	0.650	0.000	5.00	22.059	14.34	105.0	0.0	1394.2
41.50	Bot - Section 2	1.00	0.77	6.730	7.40	228.34	0.650	0.000	1.50	6.531	4.25	31.4	0.0	412.7
45.00		1.00	0.79	6.887	7.58	227.70	0.650	0.000	3.50	15.343	9.97	75.6	0.0	1802.7
48.00	Top - Section 1	1.00	0.80	7.015	7.72	226.95	0.650	0.000	3.00	12.979	8.44	65.1	0.0	1524.5
50.00		1.00	0.81	7.098	7.81	230.36	0.650	0.000	2.00	8.564	5.57	43.5	0.0	474.0
55.00		1.00	0.83	7.294	8.02	228.66	0.650	0.000	5.00	21.099	13.71	110.0	0.0	1167.8
60.00		1.00	0.85	7.477	8.22	226.60	0.650	0.000	5.00	20.655	13.43	110.4	0.0	1143.0
65.00		1.00	0.87	7.650	8.42	224.23	0.650	0.000	5.00	20.212	13.14	110.6	0.0	1118.2
70.00		1.00	0.89	7.814	8.60	221.59	0.650	0.000	5.00	19.768	12.85	110.4	0.0	1093.5
75.00		1.00	0.91	7.969	8.77	218.70	0.650	0.000	5.00	19.324	12.56	110.1	0.0	1068.7
80.00		1.00	0.93	8.118	8.93	215.60	0.650	0.000	5.00	18.881	12.27	109.6	0.0	1043.9
84.00	Bot - Section 3	1.00	0.94	8.232	9.05	212.98	0.650	0.000	4.00	14.785	9.61	87.0	0.0	817.3
85.00		1.00	0.94	8.260	9.09	212.31	0.650	0.000	1.00	3.705	2.41	21.9	0.0	348.6
89.50	Top - Section 2	1.00	0.96	8.382	9.22	209.19	0.650	0.000	4.50	16.452	10.69	98.6	0.0	1547.5
90.00		1.00	0.96	8.396	9.24	211.95	0.650	0.000	0.50	1.806	1.17	10.8	0.0	71.5
95.00		1.00	0.97	8.526	9.38	208.34	0.650	0.000	5.00	17.815	11.58	108.6	0.0	705.3
100.00		1.00	0.99	8.652	9.52	204.58	0.650	0.000	5.00	17.371	11.29	107.5	0.0	687.6
105.00		1.00	1.00	8.774	9.65	200.68	0.650	0.000	5.00	16.928	11.00	106.2	0.0	669.9
108.00	Appurtenance(s)	1.00	1.01	8.845	9.73	198.28	0.650	0.000	3.00	9.944	6.46	62.9	0.0	393.4
110.00		1.00	1.02	8.891	9.78	196.65	0.650	0.000	2.00	6.540	4.25	41.6	0.0	258.8
115.00		1.00	1.03	9.005	9.91	192.51	0.650	0.000	5.00	16.040	10.43	103.3	0.0	634.5
117.00	Appurtenance(s)	1.00	1.03	9.049	9.95	190.82	0.650	0.000	2.00	6.292	4.09	40.7	0.0	248.8
120.00		1.00	1.04	9.115	10.03	188.25	0.650	0.000	3.00	9.305	6.05	60.6	0.0	368.0
125.00		1.00	1.05	9.222	10.14	183.89	0.650	0.000	5.00	15.153	9.85	99.9	0.0	599.1
128.00	Appurtenance(s)	1.00	1.06	9.284	10.21	181.23	0.650	0.000	3.00	8.879	5.77	58.9	0.0	351.0
130.00	Top - Section 3	1.00	1.07	9.326	10.26	179.43	0.650	0.000	2.00	5.831	3.79	38.9	0.0	230.4
135.00		1.00	1.08	9.427	10.37	174.81	0.650	0.000	5.00	14.264	9.27	96.1	0.0	339.4
139.00	Appurtenance(s)	1.00	1.09	9.506	10.46	171.05	0.650	0.000	4.00	11.088	7.21	75.4	0.0	263.8
140.00		1.00	1.09	9.525	10.48	170.11	0.650	0.000	1.00	2.727	1.77	18.6	0.0	64.9
145.00		1.00	1.10	9.621	10.58	165.32	0.650	0.000	5.00	13.366	8.69	91.9	0.0	318.0
149.00	Appurtenance(s)	1.00	1.11	9.696	10.67	161.42	0.650	0.000	4.00	10.370	6.74	71.9	0.0	246.6
150.00		1.00	1.11	9.715	10.69	160.44	0.650	0.000	1.00	2.548	1.66	17.7	0.0	60.6
								Totals:	**150.00**			**3,136.4**		**32,020.4**

Discrete Appurtenance Forces

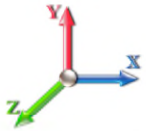
Structure:	CT13073-A-SBA	**Code:**	TIA-222-G	3/11/2022	
Site Name:	Groton North	**Exposure:**	B		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 25	

Tower Engineering Solutions

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 20

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	149.00	Samsung MT6407-77A	3	9.696	10.666	0.52	0.75	7.39	238.20	0.000	0.000	78.79	0.00	0.00
2	149.00	Low Profile Platform	1	9.696	10.666	1.00	1.00	22.00	1500.00	0.000	0.000	234.65	0.00	0.00
3	149.00	Andrew LNX-6512DS-A1M	3	9.696	10.666	0.60	0.75	9.16	83.40	0.000	0.000	97.72	0.00	0.00
4	149.00	JMA MX06FR0660-02	6	9.696	10.666	0.65	0.75	38.64	276.00	0.000	0.000	412.14	0.00	0.00
5	149.00	HRK12-HD	1	9.696	10.666	1.00	1.00	15.30	406.61	0.000	0.000	163.19	0.00	0.00
6	149.00	Samsung RF4440d-13A	3	9.696	10.666	0.50	0.75	2.20	188.40	0.000	0.000	23.48	0.00	0.00
7	149.00	Samsung RF4439d-25A	3	9.696	10.666	0.50	0.75	2.20	188.40	0.000	0.000	23.48	0.00	0.00
8	149.00	Raycap	1	9.696	10.666	0.75	0.75	3.04	32.00	0.000	0.000	32.48	0.00	0.00
9	139.00	RMQP-4096-HK	1	9.506	10.456	1.00	1.00	51.70	2645.00	0.000	0.000	540.59	0.00	0.00
10	139.00	Radio 4415 B25	4	9.506	10.456	0.50	0.75	3.30	184.00	0.000	0.000	34.47	0.00	0.00
11	139.00	4424 B25	3	9.506	10.456	0.50	0.75	3.09	264.00	0.000	0.000	32.31	0.00	0.00
12	139.00	4449 B71 + B85	3	9.506	10.456	0.50	0.75	2.97	219.60	0.000	0.000	31.05	0.00	0.00
13	139.00	AIR6449 B41	3	9.506	10.456	0.53	0.75	9.03	309.00	0.000	0.000	94.38	0.00	0.00
14	139.00	APXVAARR24_43-U-NA2	3	9.506	10.456	0.52	0.75	31.88	384.00	0.000	0.000	333.33	0.00	0.00
15	139.00	Air 3246 B66	3	9.506	10.456	0.62	0.75	14.83	540.00	0.000	0.000	155.05	0.00	0.00
16	128.00	7770.00A	3	9.284	10.213	0.58	0.80	9.57	81.00	0.000	0.000	97.77	0.00	0.00
17	128.00	HPA-65R-BU8AA	2	9.284	10.213	0.69	0.80	15.45	108.00	0.000	0.000	157.81	0.00	0.00
18	128.00	Low Profile Platform	1	9.284	10.213	1.00	1.00	22.00	1600.00	0.000	0.000	224.68	0.00	0.00
19	128.00	HPA-65R-BU4AA	1	9.284	10.213	0.75	0.80	3.70	28.70	0.000	0.000	37.79	0.00	0.00
20	128.00	DMP65R-BU4DA	1	9.284	10.213	0.79	0.80	6.56	69.70	0.000	0.000	66.97	0.00	0.00
21	128.00	DC6-48-60-18-8F	2	9.284	10.213	0.80	0.80	1.47	63.60	0.000	0.000	15.03	0.00	0.00
22	128.00	DMP65R-BU8DA	2	9.284	10.213	0.58	0.80	20.59	191.40	0.000	0.000	210.25	0.00	0.00
23	128.00	4449	3	9.284	10.213	0.54	0.80	2.65	210.00	0.000	0.000	27.10	0.00	0.00
24	128.00	B2 B66A 8843	3	9.284	10.213	0.54	0.80	2.64	210.00	0.000	0.000	26.93	0.00	0.00
25	117.00	MC-PK8-DSH	1	9.049	9.954	1.00	1.00	37.59	1727.00	0.000	0.000	374.17	0.00	0.00
26	117.00	RDIDC-9181-PF-48	1	9.049	9.954	0.38	0.75	0.75	21.90	0.000	0.000	7.50	0.00	0.00
27	117.00	TA08025-B604	3	9.049	9.954	0.50	0.75	2.95	191.70	0.000	0.000	29.41	0.00	0.00
28	117.00	TA08025-B605	3	9.049	9.954	0.50	0.75	2.95	225.00	0.000	0.000	29.41	0.00	0.00
29	117.00	MX08FRO665-21	3	9.049	9.954	0.55	0.75	20.80	193.50	0.000	0.000	207.00	0.00	0.00
30	108.00	Chain / Bracket	1	8.845	9.729	1.00	1.00	2.50	220.00	0.000	0.000	24.32	0.00	0.00
31	108.00	Electronics Research, Inc	1	8.845	9.729	1.00	1.00	4.60	8.80	0.000	0.000	44.75	0.00	0.00
							Totals:		**12,608.91**			**3,868.01**		

Total Applied Force Summary

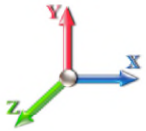
Structure:	CT13073-A-SBA		**Code:**	TIA-222-G	3/11/2022
Site Name:	Groton North		**Exposure:**	B	
Height:	150.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 26

Tower Engineering Solutions

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 20

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		110.27	1698.29	0.00	0.00
10.00		108.32	1669.98	0.00	0.00
15.00		106.38	1641.68	0.00	0.00
20.00		104.44	1613.37	0.00	0.00
25.00		102.49	1585.06	0.00	0.00
30.00		100.63	1556.76	0.00	0.00
35.00		103.13	1528.45	0.00	0.00
40.00		105.03	1500.15	0.00	0.00
41.50		31.43	444.52	0.00	0.00
45.00		75.56	1876.84	0.00	0.00
48.00		65.10	1588.02	0.00	0.00
50.00		43.46	516.42	0.00	0.00
55.00		110.03	1273.72	0.00	0.00
60.00		110.43	1248.95	0.00	0.00
65.00		110.55	1224.18	0.00	0.00
70.00		110.44	1199.42	0.00	0.00
75.00		110.11	1174.65	0.00	0.00
80.00		109.59	1149.88	0.00	0.00
84.00		87.02	902.07	0.00	0.00
85.00		21.88	369.75	0.00	0.00
89.50		98.60	1642.88	0.00	0.00
90.00		10.84	82.09	0.00	0.00
95.00		108.60	811.20	0.00	0.00
100.00		107.46	793.50	0.00	0.00
105.00		106.19	775.81	0.00	0.00
108.00	(2) attachments	131.96	685.80	0.00	0.00
110.00		41.58	300.81	0.00	0.00
115.00		103.27	739.63	0.00	0.00
117.00	(11) attachments	688.21	2650.00	0.00	0.00
120.00		60.64	428.04	0.00	0.00
125.00		99.91	699.25	0.00	0.00
128.00	(18) attachments	923.28	2973.46	0.00	0.00
130.00		38.88	254.50	0.00	0.00
135.00		96.14	399.58	0.00	0.00
139.00	(20) attachments	1296.54	4857.53	0.00	0.00
140.00		18.57	72.75	0.00	0.00
145.00		91.95	357.30	0.00	0.00
149.00	(21) attachments	1137.81	3191.12	0.00	0.00
150.00		17.70	60.59	0.00	0.00
	Totals:	**7,004.42**	**47,538.00**	**0.00**	**0.00**

Calculated Forces

Structure:	CT13073-A-SBA	**Code:**	TIA-222-G	3/11/2022	
Site Name:	Groton North	**Exposure:**	B		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 27	

Tower Engineering Solutions

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00

Iterations 20

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-47.54	-7.01	0.00	-778.62	0.00	778.62	6643.18	3321.59	16232.9	8128.53	0.00	0.000	0.000	0.103
5.00	-45.83	-6.92	0.00	-743.54	0.00	743.54	6562.43	3281.22	15750.7	7887.07	0.01	-0.026	0.000	0.101
10.00	-44.16	-6.84	0.00	-708.92	0.00	708.92	6480.38	3240.19	15272.4	7647.59	0.05	-0.051	0.000	0.100
15.00	-42.52	-6.75	0.00	-674.75	0.00	674.75	6397.03	3198.52	14798.3	7410.16	0.12	-0.077	0.000	0.098
20.00	-40.90	-6.66	0.00	-641.02	0.00	641.02	6312.38	3156.19	14328.4	7174.88	0.22	-0.103	0.000	0.096
25.00	-39.31	-6.57	0.00	-607.73	0.00	607.73	6226.42	3113.21	13863.0	6941.83	0.34	-0.130	0.000	0.094
30.00	-37.75	-6.48	0.00	-574.88	0.00	574.88	6139.16	3069.58	13402.2	6711.09	0.49	-0.156	0.000	0.092
35.00	-36.22	-6.39	0.00	-542.46	0.00	542.46	6050.60	3025.30	12946.2	6482.75	0.67	-0.182	0.000	0.090
40.00	-34.72	-6.29	0.00	-510.50	0.00	510.50	5960.74	2980.37	12495.2	6256.90	0.87	-0.209	0.000	0.087
41.50	-34.28	-6.27	0.00	-501.07	0.00	501.07	5933.53	2966.76	12360.9	6189.64	0.94	-0.217	0.000	0.087
45.00	-32.40	-6.19	0.00	-479.13	0.00	479.13	5869.58	2934.79	12049.3	6033.61	1.11	-0.235	0.000	0.085
48.00	-30.81	-6.13	0.00	-460.55	0.00	460.55	4971.57	2485.79	10282.0	5148.64	1.26	-0.251	0.000	0.096
50.00	-30.29	-6.09	0.00	-448.29	0.00	448.29	4942.60	2471.30	10136.2	5075.65	1.37	-0.262	0.000	0.094
55.00	-29.01	-5.99	0.00	-417.82	0.00	417.82	4869.24	2434.62	9774.42	4894.48	1.66	-0.290	0.000	0.091
60.00	-27.76	-5.89	0.00	-387.87	0.00	387.87	4794.58	2397.29	9416.42	4715.21	1.97	-0.318	0.000	0.088
65.00	-26.54	-5.78	0.00	-358.43	0.00	358.43	4718.63	2359.31	9062.39	4537.93	2.32	-0.345	0.000	0.085
70.00	-25.33	-5.68	0.00	-329.51	0.00	329.51	4641.37	2320.68	8712.52	4362.74	2.70	-0.373	0.000	0.081
75.00	-24.16	-5.57	0.00	-301.13	0.00	301.13	4562.80	2281.40	8366.97	4189.70	3.10	-0.399	0.000	0.077
80.00	-23.01	-5.46	0.00	-273.27	0.00	273.27	4482.94	2241.47	8025.91	4018.92	3.54	-0.425	0.000	0.073
84.00	-22.10	-5.37	0.00	-251.43	0.00	251.43	4418.04	2209.02	7756.28	3883.90	3.90	-0.446	0.000	0.070
85.00	-21.73	-5.35	0.00	-246.06	0.00	246.06	4396.40	2198.20	7680.13	3845.78	4.00	-0.451	0.000	0.069
89.50	-20.09	-5.25	0.00	-221.97	0.00	221.97	2828.72	1414.36	4933.25	2470.29	4.43	-0.473	0.000	0.097
90.00	-20.01	-5.24	0.00	-219.34	0.00	219.34	2824.36	1412.18	4913.38	2460.34	4.48	-0.476	0.000	0.096
95.00	-19.19	-5.13	0.00	-193.14	0.00	193.14	2780.02	1390.01	4715.55	2361.28	5.00	-0.506	0.000	0.089
100.00	-18.40	-5.03	0.00	-167.47	0.00	167.47	2734.38	1367.19	4519.43	2263.07	5.54	-0.536	0.000	0.081
105.00	-17.62	-4.92	0.00	-142.33	0.00	142.33	2687.43	1343.72	4325.17	2165.80	6.12	-0.563	0.000	0.072
108.00	-16.94	-4.79	0.00	-127.56	0.00	127.56	2658.64	1329.32	4209.58	2107.92	6.48	-0.578	0.000	0.067
110.00	-16.64	-4.75	0.00	-117.99	0.00	117.99	2639.19	1319.59	4132.95	2069.55	6.72	-0.588	0.000	0.063
115.00	-15.90	-4.64	0.00	-94.26	0.00	94.26	2589.64	1294.82	3942.93	1974.40	7.35	-0.609	0.000	0.054
117.00	-13.25	-3.93	0.00	-84.98	0.00	84.98	2569.45	1284.73	3867.58	1936.67	7.61	-0.617	0.000	0.049
120.00	-12.82	-3.86	0.00	-73.20	0.00	73.20	2538.79	1269.39	3755.30	1880.44	8.00	-0.628	0.000	0.044
125.00	-12.13	-3.76	0.00	-53.88	0.00	53.88	2486.64	1243.32	3570.20	1787.76	8.66	-0.644	0.000	0.035
128.00	-9.16	-2.80	0.00	-42.61	0.00	42.61	2454.72	1227.36	3460.44	1732.79	9.07	-0.651	0.000	0.028
130.00	-8.91	-2.76	0.00	-37.01	0.00	37.01	2433.18	1216.59	3387.83	1696.43	9.35	-0.656	0.000	0.025
130.00	-8.91	-2.76	0.00	-37.01	0.00	37.01	1188.95	594.48	1667.65	835.07	9.35	-0.656	0.000	0.052
135.00	-8.51	-2.66	0.00	-23.20	0.00	23.20	1172.65	586.33	1593.28	797.82	10.04	-0.665	0.000	0.036
139.00	-3.67	-1.31	0.00	-12.55	0.00	12.55	1158.65	579.33	1533.54	767.91	10.60	-0.672	0.000	0.020
140.00	-3.59	-1.29	0.00	-11.24	0.00	11.24	1155.02	577.51	1518.58	760.42	10.74	-0.673	0.000	0.018
145.00	-3.24	-1.19	0.00	-4.79	0.00	4.79	1136.06	568.03	1443.74	722.95	11.45	-0.678	0.000	0.009
149.00	-0.06	-0.02	0.00	-0.02	0.00	0.02	1119.92	559.96	1383.89	692.97	12.02	-0.679	0.000	0.000
150.00	0.00	-0.02	0.00	0.00	0.00	0.00	1115.76	557.88	1368.94	685.49	12.16	-0.679	0.000	0.000

Reactions

Load Case	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)
1.2D + 1.6W 105 mph Wind	34.4	0.00	57.01	0.00	0.00	3832.43
0.9D + 1.6W 105 mph Wind	34.4	0.00	42.75	0.00	0.00	3804.13
1.2D + 1.0Di + 1.0Wi 50 mph Wind	8.3	0.00	85.24	0.00	0.00	908.57
1.2D + 1.0E	2.1	0.00	57.05	0.00	0.00	249.21
0.9D + 1.0E	2.1	0.00	42.78	0.00	0.00	247.27
1.0D + 1.0W 60 mph Wind	7.0	0.00	47.54	0.00	0.00	778.62

Max Stresses

Load Case	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Elev (ft)	Stress Ratio
1.2D + 1.6W 105 mph Wind	-57.01	-34.39	0.00	-3832.4	0.00	-3832.4	6643.18	3321.5	16232.9	8128.53	0.00	0.480
0.9D + 1.6W 105 mph Wind	-42.75	-34.37	0.00	-3804.1	0.00	-3804.1	6643.18	3321.5	16232.9	8128.53	0.00	0.475
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-85.24	-8.30	0.00	-908.57	0.00	-908.57	6643.18	3321.5	16232.9	8128.53	0.00	0.125
1.2D + 1.0E	-24.16	-1.62	0.00	-84.85	0.00	-84.85	2828.72	1414.3	4933.25	2470.29	89.50	0.043
0.9D + 1.0E	-18.12	-1.61	0.00	-83.99	0.00	-83.99	2828.72	1414.3	4933.25	2470.29	89.50	0.040
1.0D + 1.0W 60 mph Wind	-47.54	-7.01	0.00	-778.62	0.00	-778.62	6643.18	3321.5	16232.9	8128.53	0.00	0.103

Base Plate Summary

Structure:	CT13073-A-SB		**Code:**	TIA-222-G	3/11/2022
Site Name:	Groton North		**Exposure:**	B	
Height:	150.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 29

TES Tower Engineering Solutions

Reactions	
Original Design	
Moment (kip-ft):	6114.40
Axial (kip):	94.80
Shear (kip):	55.60
Analysis (1.2D + 1.6W)	
Moment (kip-ft):	3832.43
Axial (kip):	57.01
Shear (kip):	34.39

Base Plate	
Yield (ksi):	50.00
Width (in):	69.50
Style:	Round
Polygon Sides:	0.00
Clip Length (in):	0.00
Effective Len (in):	7.86
Moment (kip-in):	214.36
Allow Stress (ksi):	67.50
Applied Stress (ksi):	53.33
Stress Ratio:	0.79

Anchor Bolts	
Bolt Circle:	65.00
Number Bolts:	34.00
Bolt Type:	1.5" F1554 105
Bolt Diameter (in):	1.50
Yield (ksi):	105.00
Ultimate (ksi):	125.00
Arrangement:	Radial
Cluster Dist (in):	0.00
Start Angle (deg):	0.00
Compression	
Force (kip):	85.75
Allowable (kip):	141.00
Ratio:	0.62
Tension	
Force (kip):	80.73
Allowable (kip):	141.00
Ratio:	0.59

Monopole Mat Foundation Design

Customer Name:	Verizon	**TIA Standard:**	TIA-222-G
Site Name:		**Structure Height (Ft.):**	150
Site Number:	CT13073-A-SBA	**Engineer Name:**	K. Azisllari
Engr. Number:	125706	**Engineer Login ID:**	

Date 3/9/2022

Foundation Info Obtained from: Drawings/Calculations

Structure Type: Monopole

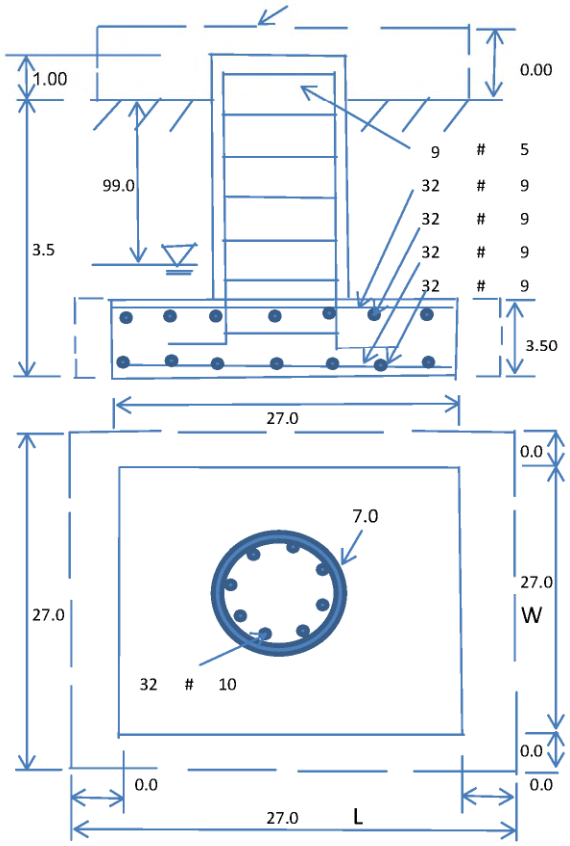
Analysis or Design? Analysis

Base Reactions (Factored):

Axial Load (Kips):	57.0	Shear Force (Kips):	34.4
Uplift Force (Kips):	0.0	Moment (Kips-ft):	3832.4
Allowable overstress %:	5.0%		

Foundation Geometries:

		Mods required -Yes/No ?:	No
Diameter of Pier (ft.):	7.0	Depth of Base BG (ft.):	3.5
Pier Height A. G. (ft.):	1.00	Thickness of Pad (ft):	3.50
Length of Pad (ft.):	27	Width of Pad (ft.):	27
Final Length of pad (ft)	27.0	Final width of pad (ft):	27.0



Material Properties and Reabr Info:

Concrete Strength (psi):	4000	Steel Elastic Modulus:	29000	ksi
Vertical bar yield (ksi)	60	Tie steel yield (ksi):	60	
Vertical Rebar Size #:	10	Tie / Stirrup Size #:	5	
Qty. of Vertical Rebars:	32	Tie Spacing (in):	6.0	
Pad Rebar Yield (Ksi):	60	Pad Steel Rebar Size (#):	9	
Concrete Cover (in.):	3	Unit Weight of Concrete:	150.0	pcf
Rebar at the bottom of the concrete pad:				
Qty. of Rebar in Pad (L):	32	Qty. of Rebar in Pad (W):	32	
Rebar at the top of the concrete pad:				
Qty. of Rebar in Pad (L):	32	Qty. of Rebar in Pad (W):	32	
Apply 1.35 factor for e/w Per G:	1.35			

Soil Design Parameters:

Soil Unit Weight (pcf):	100.0	Soil Buoyant Weight:	50.0	Pcf		
Water Table B.G.S. (ft):	99.0	Unit Weight of Water:	62.4	pcf	Angle from Top of Pad:	30
Ultimate Bearing Pressure (psf):	20000	Ultimate Skin Friction:		Psf	Angle from Bottm of Pad:	25
Consider Friction for O.T.M. (Y/N):	No	Consider Friction for bearing (Y/N):	No		Angle from Bottm of Pad:	25
Consider soil hor. resist. for OTM.:	No	Reduction factor on the maximum soil bearing pressure:			1.00	

Foundation Analysis and Design: Uplift Strength Reduction Factor: 0.75 — Compression Strength Reduction Factor: 0.75

Total Dry Soil Volume (cu. Ft.):	0.00	Total Dry Soil Weight (Kips):	0.00
Total Buoyant Soil Volume (cu. Ft.):	0.00	Total Buoyant Soil Weight (Kips):	0.00
Total Effective Soil Weight (Kips):	0.00	Weight from the Concrete Block at Top (K):	0.00
Total Dry Concrete Volume (cu. Ft.):	2589.98	Total Dry Concrete Weight (Kips):	388.50
Total Buoyant Concrete Volume (cu. Ft.):	0.00	Total Buoyant Concrete Weight (Kips):	0.00
Total Effective Concrete Weight (Kips):	388.50	Total Vertical Load on Base (Kips):	445.50

Check Soil Capacities:

					Load/ Capacity Ratio	
Calculated Maxium Net Soil Pressure under the base (psf):	2430	<	Allowable Factored Soil Bearing (psf):	15000	0.16	OK!
Allowable Foundation Overturning Resistance (kips-ft.):	5489.7	>	Design Factored Momont (kips-ft):	3987	0.73	OK!
Factor of Safety Against Overturning (O. R. Moment/Design Moment):	1.38	OK!				

Check the capacities of Reinforceing Concrete:

Strength reduction factor (Flexure and axial tension):	0.90		Strength reduction factor (Shear):	0.75		
Strength reduction factor (Axial compresion):	0.65		Wind Load Factor on Concrete Design:	1.00		
					Load/ Capacity Ratio	
(1) Concrete Pier:						
Vertical Steel Rebar Area (sq. in./each):	1.27		Tie / Stirrup Area (sq. in./each):	0.31		
Calculated Moment Capacity (Mn,Kips-Ft):	6761.6	>	Design Factored Moment (Mu, Kips-F	3866.8	0.57	OK!
Calculated Shear Capacity (Kips):	942.4	>	Design Factored Shear (Kips):	34.4	0.04	OK!
Calculated Tension Capacity (Tn, Kips):	2194.6	>	Design Factored Tension (Tu Kips):	0.0	0.00	OK!
Calculated Compression Capacity (Pn, Kips):	9726.0	>	Design Factored Axial Load (Pu Kips):	57.0	0.01	OK!
Moment & Axial Strength Combination:	0.57	OK!	Check Tie Spacing (Design/Required):		0.5	OK!
Pier Reinforcement Ratio:	0.007		Reinforcement Ratio is satisfied per ACI			
(2).Concrete Pad:						
One-Way Design Shear Capacity (L-Direction, Kips):	1181.5	>	One-Way Factored Shear (L-D. Kips):	244.0	0.21	OK!
One-Way Design Shear Capacity (W-Direction, Kips):	1181.5	>	One-Way Factored Shear (W-D., Kips)	244.0	0.21	OK!
One-Way Design Shear Capacity (Corner-Corner. Kips):	1084.2	>	One-Way Factored Shear (C-C, Kips):	237.3	0.22	OK!
Lower Steel Pad Reinforcement Ratio (L-Direct.):	0.0026	OK!	Lower Steel Pad Reinf. Ratio (W-Direc	0.0026		
Lower Steel Pad Moment Capacity (L-Direction. Kips-ft):	5409.5	>	Moment at Bottom (L-Dir. K-Ft):	1489.2	0.28	OK!
Lower Steel Pad Moment Capacity (W-Direction. Kips-ft):	5409.5	>	Moment at Bottom (W-Dir. K-Ft):	1489.2	0.28	OK!
Lower Steel Pad Moment Capacity (Corner-Corner,K-ft):	7610.4	>	Moment at Bottom (C-C Dir. K-Ft):	2106.1	0.28	OK!
Upper Steel Pad Reinforcement Ratio (L-Direct.):	0.0026	OK!	Upper Steel Reinf. Ratio (W-Dir.):	0.0026		
Upper Steel Pad Moment Capacity (L-Direc. Kips-ft):	5409.5	>	Moment at the top (L-Dir K-Ft):	617.7	0.11	OK!
Upper Steel Pad Moment Capacity (W-Direc. Kips-ft):	5409.5	>	Moment at the top (W-Dir K-Ft):	617.7	0.11	OK!
Upper Steel Pad Moment Capacity (Corner-Corner. K-ft):	7610.4	>	Moment at the top (C-C Dir. K-Ft):	578.1	0.08	OK!
(3).Check Punching Shear Capacity due to Moment in the Pier:						
Moment transferred by punching shear:	1533.0	k-ft.	Max. factored shear stress v_{u_CD}:		3.4	Psi
Max. factored shear stress v_{u_AB}:	9.3	Psi	Factored shear Strength ϕv_n:		189.7	Psi
Max. factored shear stress v_u:	9.3	Psi	Check Usage of Punching Shear Capacity:		0.05	OK!

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Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10099132
Maser Consulting Connecticut Project #: 21781065A Rev 1

September 30, 2021

Site Information	*Site ID:*	*535825-VZW / GROTON 6 CT*
	Site Name:	*GROTON 6 CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*1662 Gold Star Memorial Hwy* *Groton, Connecticut 06340* *New London County*
	Latitude:	*41.38566666°*
	Longitude:	*-72.01330555°*
Structure Information	*Tower Type:*	*151-Ft Monopole*
	Mount Type:	*12.50-Ft Platform*

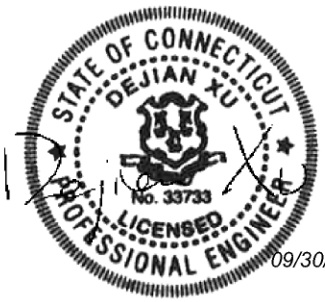
FUZE ID # 16486417

Analysis Results

Platform: **68.0% 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: Abigail Enriquez



09/30/2021

Executive Summary:

The objective of this report is to summarize the analysis results of the antenna support mount including the proposed modifications at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards.

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
Radio Frequency Data Sheet (RFDS)	*Verizon RFDS, Site ID: 323996, dated July 28, 2021*
Mount Mapping Report	*Hudson Design Group, LLC, Site ID: 535825, dated June 8, 2021*
Previous Mount Analysis	*Maser Consulting Connecticut, Project #: 21781065A, dated: August 26, 2021*
Mount Modification Drawings	*Maser Consulting Connecticut, Project #: 21781065A, dated: September 30, 2021*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}:	127 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.00 in
	Risk Category:	II
	Exposure Category:	B
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	0.991
Seismic Parameters:	S_S:	0.188
	S_1:	0.052
Maintenance Parameters:	Wind Speed (3-sec. Gust):	30 mph
	Maintenance Live Load, Lv:	250 lbs.
	Maintenance Live Load, Lm:	500 lbs.
Analysis Software:	RISA-3D (V17)	

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
147.50	149.00	6	JMA Wireless	MX06FRO660-02	Added
		3	Samsung	MT6407-77A	
		1	Raycap	RVZDC-6627-PF-48	
		3	Samsung	RF4439d-25A	
		3	Samsung	RF4440d-13A	
		3	Andrew	LNX-6512DS-A1M	Retained

The recent mount mapping did report existing OVP units. However, 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 Connecticut and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Maser Consulting Connecticut to verify deviation will not adversely impact the analysis.

2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped by Maser Consulting Connecticut, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.

5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.

6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
   - 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

8. Any mount modifications listed under Sources of Information are assumed to have been installed per the design specifications.

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

Analysis Results:

Component	Utilization %	Pass/Fail
Mod Threaded Rod	*68.0%*	*Pass*
Mount Pipe	*26.9%*	*Pass*
MOD Support Rail Corner	*32.9%*	*Pass*
MOD Support Rail	*17.6%*	*Pass*
MOD Mount Pipe	*25.1%*	*Pass*
Face Horizontal	*14.8%*	*Pass*
Corner Plate	*26.4%*	*Pass*
Cross Arm Plate	*36.3%*	*Pass*
Grating Support	*20.2%*	*Pass*
Platform Crossmember	*16.6%*	*Pass*
Standoff Horizontal	*31.7%*	*Pass*
Connection Check	*63.0%*	*Pass*

Structure Rating – *(Controlling Utilization of all Components)*	**68.0%**

Recommendation:

The existing mount will be **SUFFICIENT** for the final loading after the proposed modifications are successfully completed.

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

Attachments:

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

V4.0 Updated on 3-31-2021

Antenna Mount Mapping Form (PATENT PENDING)

FCC # 1257146

Tower Owner:	SBA	**Mapping Date:**	6/8/2021
Site Name:	GROTON 6 CT	**Tower Type:**	Monopole
Site Number or ID:	535825	**Tower Height (Ft.):**	150.8
Mapping Contractor:	HUDSON DESIGN GROUP, LLC.	**Mount Elevation (Ft.):**	147.8

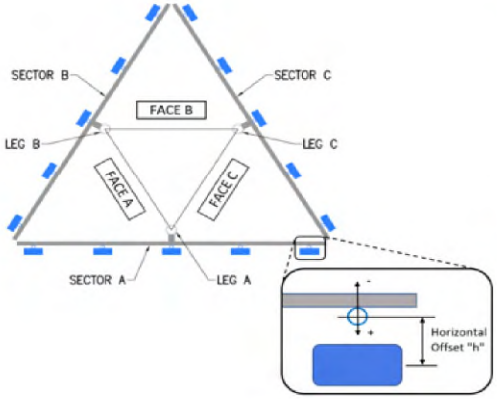
Please insert the sketches of the antenna mount from the "Sketches" tab with dimensions and members here.

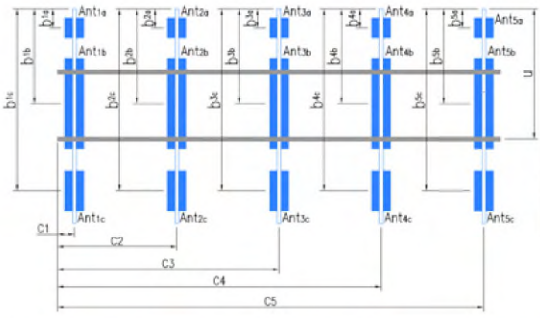
Mount Pipe Configuration and Geometries [Unit = Inches]

Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	2" STD. PIPE X 72" LONG	38.00	3.00	C1	2" STD. PIPE X 72" LONG	38.00	3.00
A2	2" STD. PIPE X 72" LONG	38.00	39.00	C2	2" STD. PIPE X 72" LONG	38.00	39.00
A3	2" STD. PIPE X 72" LONG	38.00	74.00	C3	2" STD. PIPE X 72" LONG	38.00	74.00
A4	2" STD. PIPE X 72" LONG	38.00	123.00	C4	2" STD. PIPE X 72" LONG	38.00	123.00
A5	2" STD. PIPE X 72" LONG	38.00	147.00	C5	2" STD. PIPE X 72" LONG	38.00	147.00
A6				C6			
B1	2" STD. PIPE X 72" LONG	38.00	3.00	D1			
B2	2" STD. PIPE X 72" LONG	38.00	39.00	D2			
B3	2" STD. PIPE X 72" LONG	38.00	74.00	D3			
B4	2" STD. PIPE X 72" LONG	38.00	123.00	D4			
B5	2" STD. PIPE X 72" LONG	38.00	147.00	D5			
B6				D6			

Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :	
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :	
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :	
Please enter additional infomation or comments below.	

Tower Face Width at Mount Elev. (ft.):		Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):	31
For T-Arms/Platforms on monopoles, report the weld size from the main standoff to the plate bolting into the collar mount.			0.375





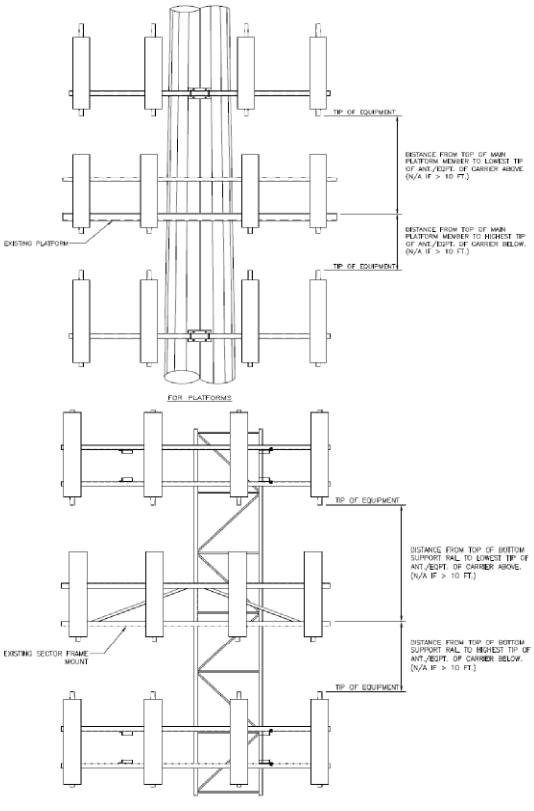
Antenna Layout (Looking Out From Tower)

Ants. Items	Enter antenna model. If not labeled, enter "Unknown". Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Mounting Locations [Units are inches and degrees] Vertical Distances"b_{1a}, b_{2a}, b_{3a}, b_{1b}...." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photos of antennas Photo Numbers
Sector A										
Ant_{1a}										
Ant_{1b}										
Ant_{1c}										
Ant_{2a}	B4 RRH 2X60-4R	11.00	5.50	36.00		150.217	9.00	-7.00		1,7
Ant_{2b}	HBXX-6517DS-A2M	12.00	6.50	75.00		147.967	36.00	8.50	40.00	1,7
Ant_{2c}										
Ant_{3a}										
Ant_{3b}	BXA-70063-6CF	11.00	5.00	71.00		147.967	36.00	13.00	40.00	1,8
Ant_{3c}	RFS	10.50	2.00	7.00		149.3	20.00	-2.00		
Ant_{4a}										
Ant_{4b}	HBXX-6516DS-A2M	12.00	6.50	51.00		148.55	29.00	8.50	40.00	2,8
Ant_{4c}										
Ant_{5a}										
Ant_{5b}	UNKNOWN	12.00	7.50	48.50		148.717	27.00	7.50	40.00	2,9
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

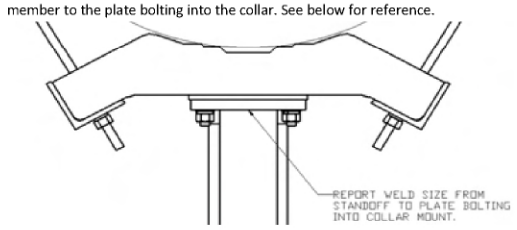
Mount Azimuth (Degree) for Each Sector			Tower Leg Azimuth (Degree) for Each Sector		
Sector A:	40.00	Deg	Leg A:		Deg
Sector B:	160.00	Deg	Leg B:		Deg
Sector C:	280.00	Deg	Leg C:		Deg
Sector D:		Deg	Leg D:		Deg

Climbing Facility Information		
Location:	208.00 Deg	N/A
Climbing Facility	Corrosion Type:	Good condition.
	Access:	Climbing path was unobstructed.
	Condition:	Good condition.

Please insert a photo of the mount centerline measurement here.



For T-Arms/Platforms on monopoles, record the weld size from the main standoff member to the plate bolting into the collar. See below for reference.



Sector B										
Ant_{1a}										
Ant_{1b}	BXA-70063-6CF	11.00	5.00	71.00		147.967	36.00	18.00	130.00	3,9
Ant_{1c}										
Ant_{2a}	B4 RRH 2X60-4R	11.00	5.50	36.00		150.217	9.00	-7.00		9,10
Ant_{2b}	HBXX-6517DS-A2M	12.00	6.50	75.00		147.967	36.00	8.50	130.00	3,9
Ant_{2c}										
Ant_{3a}										
Ant_{3b}	RFS	10.50	2.00	7.00		149.3	20.00	-2.00		10
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	HBXX-6516DS-A2M	12.00	6.50	51.00		148.55	29.00	8.50	130.00	4,11
Ant_{4c}										
Ant_{5a}										
Ant_{5b}	UNKNOWN	12.00	7.50	48.50		148.717	27.00	7.50	130.00	4,11
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										
Sector C										
Ant_{1a}										
Ant_{1b}										
Ant_{1c}										
Ant_{2a}	B4 RRH 2X60-4R	11.00	5.50	36.00		150.217	9.00	-7.00		7,12
Ant_{2b}	HBXX-6517DS-A2M	12.00	6.50	75.00		147.967	36.00	8.50	280.00	5,12
Ant_{2c}										
Ant_{3a}										
Ant_{3b}	BXA-70063-6CF	11.00	5.00	71.00		147.967	36.00	18.00	280.00	5,13
Ant_{3c}	RFS	10.50	2.00	7.00		149.3	20.00	-2.00		13,27
Ant_{4a}										
Ant_{4b}	HBXX-6516DS-A2M	12.00	6.50	51.00		148.55	29.00	8.50	280.00	6,13
Ant_{4c}										
Ant_{5a}										
Ant_{5b}	UNKNOWN	12.00	7.50	48.50		148.717	27.00	7.50	280.00	6,13
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										
Sector D										
Ant_{1a}										
Ant_{1b}										
Ant_{1c}										
Ant_{2a}										
Ant_{2b}										
Ant_{2c}										
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}										
Ant_{4b}										
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Observed Safety and Structural Issues During the Mount Mapping		
Issue #	Description of Issue	Photo #
1		
2		
3		
4		
5		
6		
7		
8		

Observed Obstructions to Tower Lighting System					
If the tower lighting system is being obstructed by the carrier's equipment (for example: a light nested by the antennas), please provide photos and fill in the information below.					Photo #
Description of Obstruction:					
Type of Light:		Photo #		Additional Comments:	
Lighting Technology:		Photo #			
Elevation (AGL) at base of light (Ft.):		Photo #			
Is a service loop available?		Photo #			
Is beacon installed on an extension?		Photo #			

Mapping Notes
1. Please report any visible structural or safety issues observed on the antenna mounts (Damaged members, loose connections, tilting mounts, safety climb issues, etc.)
2. If the thickness of the existing pipes or tubing can't be obtained from a general tool (such as Caliper), please use an ultrasonic measurement tool (thickness gauge) to measure the thickness.
3. Please create all required detail sketches of the mounts and insert them into the "Sketches" tab.
4. Please measure and enter the bolt sizes and types under the Members Box in the spreadsheet of the mount type.
5. Take and label the photos of the tower, mounts, connections, antennas and all measurements. Minimum 50 photos are required.
6. Please measure and report the size and length of all existing antenna mounting pipes.
7. Please measure and report the antenna information for all sectors.
8. Don't delete or rearrange any sheet or contents of any sheet from this mapping form.

Standard Conditions
1. Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping are to be reported in this mapping. However, this mount mapping is not a condition assessment of the mount.

V4.0 Updated on 3-31-2021

Antenna Mount Mapping Form (PATENT PENDING)

FCC #
1257146

Tower Owner:	SBA	**Mapping Date:**	6/8/2021
Site Name:	GROTON 6 CT	**Tower Type:**	Monopole
Site Number or ID:	535825	**Tower Height (Ft.):**	150.8
Mapping Contractor:	HUDSON DESIGN GROUP, LLC.	**Mount Elevation (Ft.):**	147.8

Please enter information about transmission lines.

Transmission Line Type (Pick from List)	Quantity	Diameter/Size (in.) Please add a description if using type "Other".	Located on Tower Face	Photo #	Additional Comments
All Sectors					
Coax	12	1-5/8" Ø	INSIDE	82,83	
Hybrid	1	1-1/4" Ø	INSIDE	82,83	

Please enter information about additional RF equipment.

Equipment Type (Pick from List)	Quantity	Model Numbers if Known	Width (in.)	Depth (in.)	Height (in.)	Location	Photo #	Additional Comments
Sector A								
OVP	1	UNKNOWN	15.00	10.00	28.00	MOUNTED ON STANDOFF	35	2-3/8" STD. PIPE X 72" LONG
Sector B								
Sector C								

Equipment Type (Pick from List)	Quantity	Model Numbers if Known	Width (in.)	Depth (in.)	Height (in.)	Location	Photo #	Additional Comments
Sector D								
Ground Equipment								

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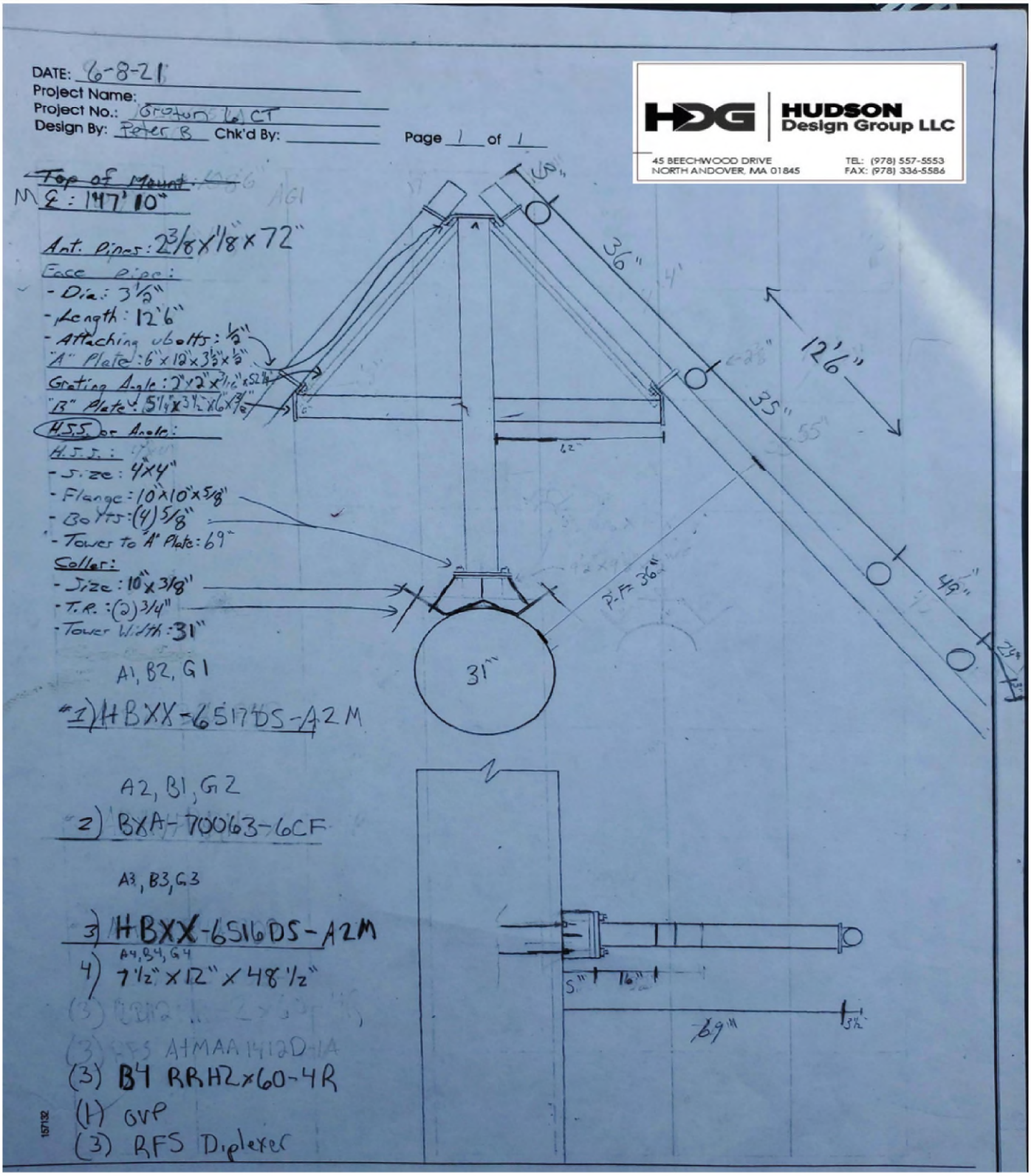
Antenna Mount Mapping Form (PATENT PENDING)

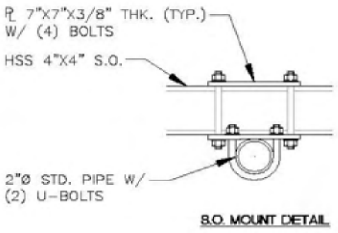
FCC # 1257146

Tower Owner:	SBA	**Mapping Date:**	6/8/2021
Site Name:	GROTON 6 CT	**Tower Type:**	Monopole
Site Number or ID:	535825	**Tower Height (Ft.):**	150.8
Mapping Contractor:	HUDSON DESIGN GROUP, LLC.	**Mount Elevation (Ft.):**	147.8

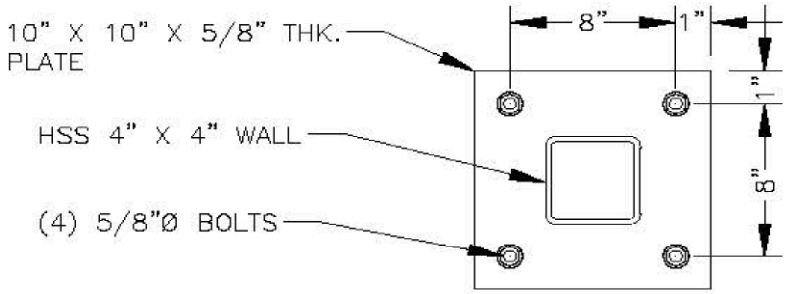
Please Insert Sketches of the Antenna Mount



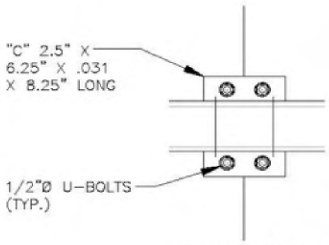
Please Insert Sketches of the Antenna Mount, cont'd



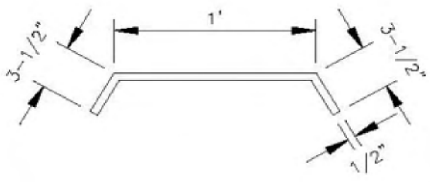
S.O. MOUNT DETAIL



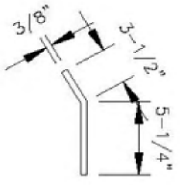
STANDOFF TO RING
MOUNT CONNECTION



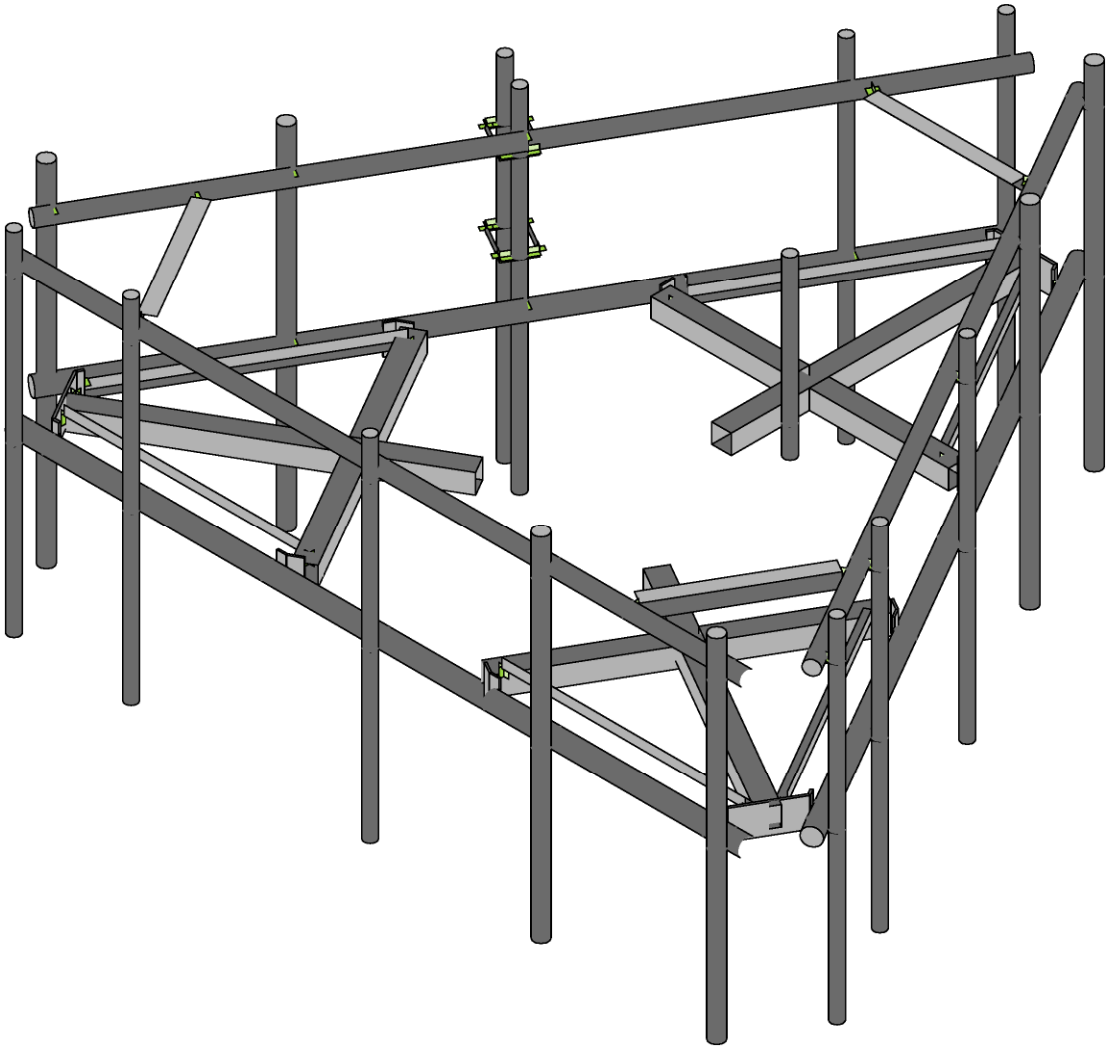
CROSSOVER PLATE
DETAIL



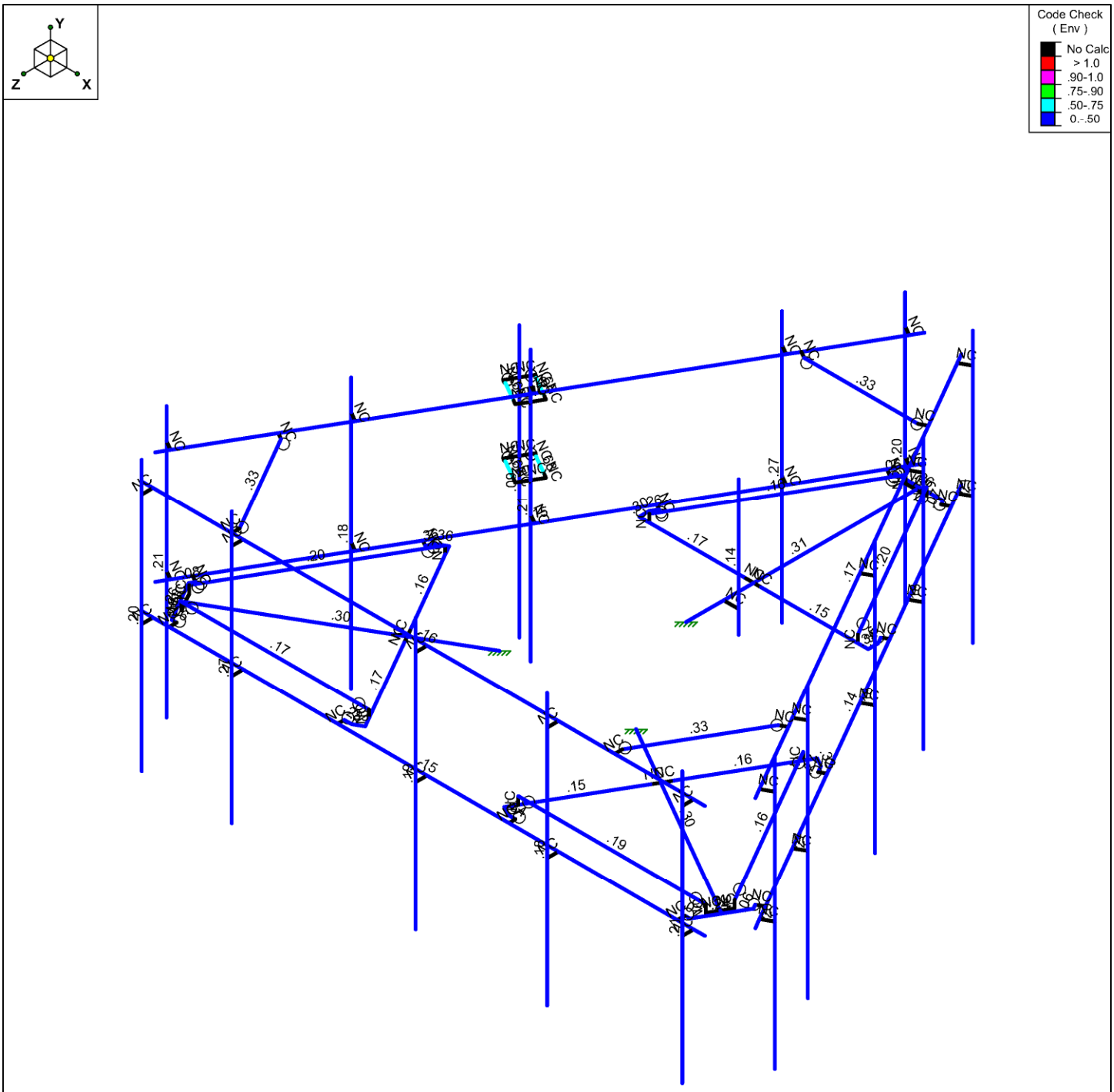
DETAIL J
APEX 'A' PLATE DETAIL



DETAIL K
'B' PLATE DETAIL

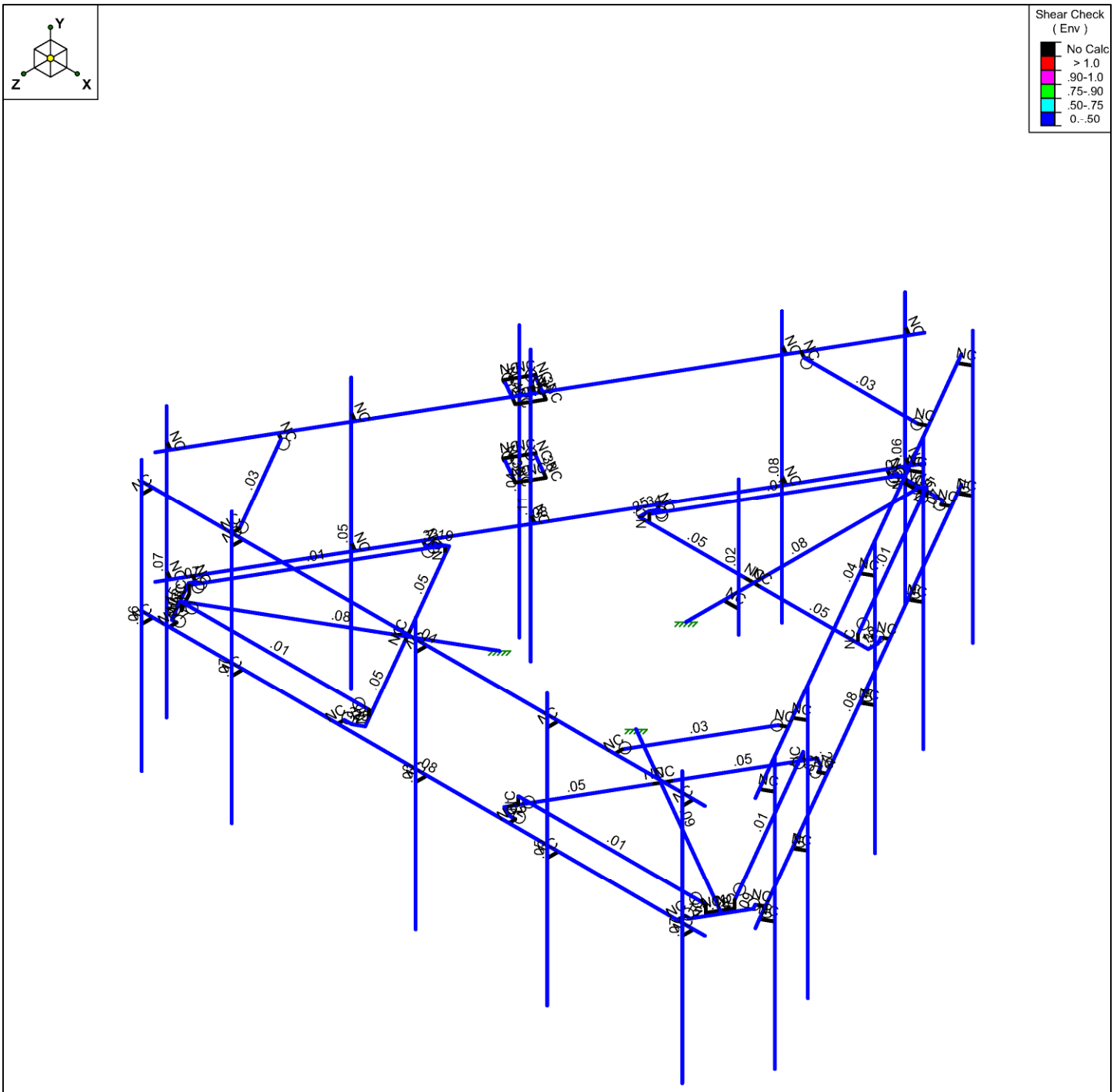


		SK - 1
		Sept 30, 2021 at 2:01 PM
		535825-VZW_MT_LO_H.r3d



Member Code Checks Displayed (Enveloped)
Results for LC 1, 1.2D+1.0Wo (0 Deg)

		SK - 2
		Sept 30, 2021 at 2:01 PM
		535825-VZW_MT_LO_H.r3d



Member Shear Checks Displayed (Enveloped)
Results for LC 1, 1.2D+1.0Wo (0 Deg)

		SK - 3
		Sept 30, 2021 at 2:01 PM
		535825-VZW_MT_LO_H.r3d

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
1	Antenna D	None					93			
2	Antenna Di	None					93			
3	Antenna Wo (0 Deg)	None					93			
4	Antenna Wo (30 Deg)	None					93			
5	Antenna Wo (60 Deg)	None					93			
6	Antenna Wo (90 Deg)	None					93			
7	Antenna Wo (120 Deg)	None					93			
8	Antenna Wo (150 Deg)	None					93			
9	Antenna Wo (180 Deg)	None					93			
10	Antenna Wo (210 Deg)	None					93			
11	Antenna Wo (240 Deg)	None					93			
12	Antenna Wo (270 Deg)	None					93			
13	Antenna Wo (300 Deg)	None					93			
14	Antenna Wo (330 Deg)	None					93			
15	Antenna Wi (0 Deg)	None					93			
16	Antenna Wi (30 Deg)	None					93			
17	Antenna Wi (60 Deg)	None					93			
18	Antenna Wi (90 Deg)	None					93			
19	Antenna Wi (120 Deg)	None					93			
20	Antenna Wi (150 Deg)	None					93			
21	Antenna Wi (180 Deg)	None					93			
22	Antenna Wi (210 Deg)	None					93			
23	Antenna Wi (240 Deg)	None					93			
24	Antenna Wi (270 Deg)	None					93			
25	Antenna Wi (300 Deg)	None					93			
26	Antenna Wi (330 Deg)	None					93			
27	Antenna Wm (0 Deg)	None					93			
28	Antenna Wm (30 Deg)	None					93			
29	Antenna Wm (60 Deg)	None					93			
30	Antenna Wm (90 Deg)	None					93			
31	Antenna Wm (120 Deg)	None					93			
32	Antenna Wm (150 Deg)	None					93			
33	Antenna Wm (180 Deg)	None					93			
34	Antenna Wm (210 Deg)	None					93			
35	Antenna Wm (240 Deg)	None					93			
36	Antenna Wm (270 Deg)	None					93			
37	Antenna Wm (300 Deg)	None					93			
38	Antenna Wm (330 Deg)	None					93			
39	Structure D	None		-1					3	
40	Structure Di	None						66	3	
41	Structure Wo (0 Deg)	None						132		
42	Structure Wo (30 Deg)	None						132		
43	Structure Wo (60 Deg)	None						132		
44	Structure Wo (90 Deg)	None						132		
45	Structure Wo (120 D...	None						132		
46	Structure Wo (150 D...	None						132		
47	Structure Wo (180 D...	None						132		
48	Structure Wo (210 D...	None						132		
49	Structure Wo (240 D...	None						132		
50	Structure Wo (270 D...	None						132		
51	Structure Wo (300 D...	None						132		
52	Structure Wo (330 D...	None						132		
53	Structure Wi (0 Deg)	None						132		
54	Structure Wi (30 Deg)	None						132		
55	Structure Wi (60 Deg)	None						132		
56	Structure Wi (90 Deg)	None						132		

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
57	Structure Wi (120 De...	None						132		
58	Structure Wi (150 De...	None						132		
59	Structure Wi (180 De...	None						132		
60	Structure Wi (210 De...	None						132		
61	Structure Wi (240 De...	None						132		
62	Structure Wi (270 De...	None						132		
63	Structure Wi (300 De...	None						132		
64	Structure Wi (330 De...	None						132		
65	Structure Wm (0 Deg)	None						132		
66	Structure Wm (30 De...	None						132		
67	Structure Wm (60 De...	None						132		
68	Structure Wm (90 De...	None						132		
69	Structure Wm (120 D...	None						132		
70	Structure Wm (150 D...	None						132		
71	Structure Wm (180 D...	None						132		
72	Structure Wm (210 D...	None						132		
73	Structure Wm (240 D...	None						132		
74	Structure Wm (270 D...	None						132		
75	Structure Wm (300 D...	None						132		
76	Structure Wm (330 D...	None						132		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	BLC 39 Transient Are...	None						30		
82	BLC 40 Transient Are...	None						30		

Load Combinations

	Description	Solve	P...	S...	B...	Fa...	B...	Fa...	B...	Fa...	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 Deg)	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1										
14	1.2D + 1.0Di + 1.0Wi (30 De...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1										
15	1.2D + 1.0Di + 1.0Wi (60 De...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1										
16	1.2D + 1.0Di + 1.0Wi (90 De...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1										
17	1.2D + 1.0Di + 1.0Wi (120 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1										
18	1.2D + 1.0Di + 1.0Wi (150 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1										
19	1.2D + 1.0Di + 1.0Wi (180 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1										
20	1.2D + 1.0Di + 1.0Wi (210 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1										
21	1.2D + 1.0Di + 1.0Wi (240 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1										
22	1.2D + 1.0Di + 1.0Wi (270 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1										
23	1.2D + 1.0Di + 1.0Wi (300 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1										
24	1.2D + 1.0Di + 1.0Wi (330 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1										
25	1.2D + 1.5Lm1 + 1.0Wm (0 ...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1												
26	1.2D + 1.5Lm1 + 1.0Wm (30...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1												

Load Combinations (Continued)

	Description	Solve	P...	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
27	1.2D + 1.5Lm1 + 1.0Wm (60..	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1										
28	1.2D + 1.5Lm1 + 1.0Wm (90..	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1										
29	1.2D + 1.5Lm1 + 1.0Wm (12..	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1										
30	1.2D + 1.5Lm1 + 1.0Wm (15..	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1										
31	1.2D + 1.5Lm1 + 1.0Wm (18..	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1										
32	1.2D + 1.5Lm1 + 1.0Wm (21..	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1										
33	1.2D + 1.5Lm1 + 1.0Wm (24..	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1										
34	1.2D + 1.5Lm1 + 1.0Wm (27..	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1										
35	1.2D + 1.5Lm1 + 1.0Wm (30..	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1										
36	1.2D + 1.5Lm1 + 1.0Wm (33..	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1										
37	1.2D + 1.5Lm2 + 1.0Wm (0 ...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1										
38	1.2D + 1.5Lm2 + 1.0Wm (30..	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1										
39	1.2D + 1.5Lm2 + 1.0Wm (60..	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1										
40	1.2D + 1.5Lm2 + 1.0Wm (90..	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1										
41	1.2D + 1.5Lm2 + 1.0Wm (12..	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1										
42	1.2D + 1.5Lm2 + 1.0Wm (15..	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1										
43	1.2D + 1.5Lm2 + 1.0Wm (18..	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1										
44	1.2D + 1.5Lm2 + 1.0Wm (21..	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1										
45	1.2D + 1.5Lm2 + 1.0Wm (24..	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1										
46	1.2D + 1.5Lm2 + 1.0Wm (27..	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1										
47	1.2D + 1.5Lm2 + 1.0Wm (30..	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1										
48	1.2D + 1.5Lm2 + 1.0Wm (33..	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1										
49	1.2D + 1.5Lv1	Yes	Y		1	1.2	39	1.2	79	1.5														
50	1.2D + 1.5Lv2	Yes	Y		1	1.2	39	1.2	80	1.5														
51	1.4D	Yes	Y		1	1.4	39	1.4																
52	Seismic Mass		Y		1	1	39	1																
53	1.2D + 1.0Ev + 1.0Eh (0 Deg)		Y		1	1.2	39	1.2	SX		SY	1	SZ	-1										
54	1.2D + 1.0Ev + 1.0Eh (30 D...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	-.8...										
55	1.2D + 1.0Ev + 1.0Eh (60 D...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	-.5										
56	1.2D + 1.0Ev + 1.0Eh (90 D...		Y		1	1.2	39	1.2	SX	1	SY	1	SZ											
57	1.2D + 1.0Ev + 1.0Eh (120 ...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	.5										
58	1.2D + 1.0Ev + 1.0Eh (150 ...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	.866										
59	1.2D + 1.0Ev + 1.0Eh (180 ...		Y		1	1.2	39	1.2	SX		SY	1	SZ	1										
60	1.2D + 1.0Ev + 1.0Eh (210 ...		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	.866										
61	1.2D + 1.0Ev + 1.0Eh (240 ...		Y		1	1.2	39	1.2	SX	-.8...	SY	1	SZ	.5										
62	1.2D + 1.0Ev + 1.0Eh (270 ...		Y		1	1.2	39	1.2	SX	-1	SY	1	SZ											
63	1.2D + 1.0Ev + 1.0Eh (300 ...		Y		1	1.2	39	1.2	SX	-.8...	SY	1	SZ	-.5										
64	1.2D + 1.0Ev + 1.0Eh (330 ...		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	-.8...										

Joint Coordinates and Temperatures

	Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
1	N1	-79.914702	0	40.463766	0	
2	N2	-4.914702	0	-89.440045	0	
3	N3	18.186533	0	10.5	0	
4	N5	49.024991	0	-6.913775	0	
5	N6	19.884366	2.	43.559268	0	
6	N7	47.665616	2.	-4.559268	0	
7	N24	33.774991	0	19.5	0	
8	N27	72.096615	0	41.625	0	
9	CP	0	0	0	0	
10	N29	19.884366	0	43.559268	0	
11	N30	47.665616	0	-4.559268	0	
12	N101	18.524991	0	45.913775	0	
13	N102	34.774991	0	17.767949	0	
14	N103A	32.774991	0	21.232051	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
15	N104A	51.298307	0	-5.601275	0	
16	N105	20.798307	0	47.226275	0	
17	N131	22.798308	0	47.226275	0	
18	N135	67.659115	0	46.983532	0	
19	N144	52.298307	0	-3.869224	0	
20	N148	74.51849	0	35.102746	0	
21	N86A	22.798308	0	48.976279	0	
22	N86B	53.813856	0	-4.744226	0	
23	N86C	75.190365	0	36.266468	0	
24	N87A	69.002865	0	46.983532	0	
25	N86D	67.659115	0	48.976279	0	
26	N86E	76.244259	0	34.106373	0	
27	N88A	71.230589	0	41.125	0	
28	N87C	69.825164	2.	43.559268	0	
29	N86G	69.825164	0	43.559268	0	
30	N87B	72.636015	2.	38.690732	0	
31	N88C	72.636015	0	38.690732	0	
32	N87D	-0.	0	-21	0	
33	N88B	-30.5	0	-39.	0	
34	N89	27.78125	2.	-39.	0	
35	N90	-27.78125	2.	-39.	0	
36	N91	-0.	0	-39	0	
37	N92	-0.	0	-83.25	0	
38	N93	27.78125	0	-39.	0	
39	N94	-27.78125	0	-39.	0	
40	N95	30.5	0	-39	0	
41	N96	-2.	0	-39.	0	
42	N97	2.	0	-39.	0	
43	N98	-30.5	0	-41.625	0	
44	N99	30.5	0	-41.625	0	
45	N100	29.5	0	-43.357051	0	
46	N101A	6.859375	0	-82.086278	0	
47	N102A	-29.5	0	-43.357051	0	
48	N103	-6.859375	0	-82.086278	0	
49	N104	31.015548	0	-44.232053	0	
50	N105A	-31.015548	0	-44.232053	0	
51	N106	-6.1875	0	-83.25	0	
52	N107	6.1875	0	-83.25	0	
53	N108	8.585144	0	-83.082652	0	
54	N109	-8.585144	0	-83.082652	0	
55	N110	-0.	0	-82.25	0	
56	N111	2.810851	2.	-82.25	0	
57	N112	2.810851	0	-82.25	0	
58	N113	-2.810851	2.	-82.25	0	
59	N114	-2.810851	0	-82.25	0	
60	N115	-18.186533	0	10.5	0	
61	N116	-18.524991	0	45.913775	0	
62	N117	-47.665616	2.	-4.559268	0	
63	N118	-19.884366	2.	43.559268	0	
64	N119	-33.774991	0	19.5	0	
65	N120	-72.096615	0	41.625	0	
66	N121	-47.665616	0	-4.559268	0	
67	N122	-19.884366	0	43.559268	0	
68	N123	-49.024991	0	-6.913775	0	
69	N124	-32.774991	0	21.232051	0	
70	N125	-34.774991	0	17.767949	0	
71	N126	-20.798307	0	47.226275	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
72	N127	-51.298307	0	-5.601275	0	
73	N128	-52.298308	0	-3.869224	0	
74	N129	-74.51849	0	35.102746	0	
75	N130	-22.798307	0	47.226275	0	
76	N131A	-67.659115	0	46.983532	0	
77	N132	-53.813856	0	-4.744226	0	
78	N133	-22.798307	0	48.976279	0	
79	N134	-69.002865	0	46.983532	0	
80	N135A	-75.190365	0	36.266468	0	
81	N136	-76.244259	0	34.106373	0	
82	N137	-67.659115	0	48.976279	0	
83	N138	-71.230589	0	41.125	0	
84	N139	-72.636015	2.	38.690732	0	
85	N140	-72.636015	0	38.690732	0	
86	N141	-69.825164	2.	43.559268	0	
87	N142	-69.825164	0	43.559268	0	
88	N104B	75.	0	48.976279	0	
89	N105B	-75.	0	48.976279	0	
90	N124A	4.914702	0	-89.440045	0	
91	N125A	79.914702	0	40.463766	0	
92	N92A	-72.	0	48.976279	0	
93	N93A	-48.	0	48.976279	0	
94	N94A	1.	0	48.976279	0	
95	N95A	36.	0	48.976279	0	
96	N96A	72.	0	48.976279	0	
97	N97A	-72.	0	51.976279	0	
98	N98A	-48.	0	51.976279	0	
99	N99A	1.	0	51.976279	0	
100	N100A	36.	0	51.976279	0	
101	N101B	72	0	51.976279	0	
102	N102B	-72.	38.	51.976279	0	
103	N103B	-48.	38.	51.976279	0	
104	N104C	1.	38.	51.976279	0	
105	N105C	36.	38.	51.976279	0	
106	N106A	72	38.	51.976279	0	
107	N107A	-72.	-34.	51.976279	0	
108	N108A	-48.	-34.	51.976279	0	
109	N109A	1.	-34.	51.976279	0	
110	N110A	36.	-34.	51.976279	0	
111	N111A	72	-34.	51.976279	0	
112	N113A	78.414702	0	37.86569	0	
113	N114A	66.414702	0	17.08108	0	
114	N115A	41.914702	0	-25.354165	0	
115	N116A	24.414702	0	-55.665054	0	
116	N117A	6.414702	0	-86.841969	0	
117	N118A	81.012778	0	36.36569	0	
118	N119A	69.012778	0	15.58108	0	
119	N120A	44.512778	0	-26.854165	0	
120	N121A	27.012778	0	-57.165054	0	
121	N122A	9.012778	0	-88.341969	0	
122	N123A	81.012778	38.	36.36569	0	
123	N124B	69.012778	38.	15.58108	0	
124	N125B	44.512778	38.	-26.854165	0	
125	N126A	27.012778	38.	-57.165054	0	
126	N127A	9.012778	38.	-88.341969	0	
127	N128A	81.012778	-34.	36.36569	0	
128	N129A	69.012778	-34.	15.58108	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
129	N130A	44.512778	-34.	-26.854165	0	
130	N131B	27.012778	-34.	-57.165054	0	
131	N132A	9.012778	-34.	-88.341969	0	
132	N134A	-6.414702	0	-86.841969	0	
133	N135B	-18.414702	0	-66.057359	0	
134	N136A	-42.914702	0	-23.622114	0	
135	N137A	-60.414702	0	6.688775	0	
136	N138A	-78.414702	0	37.86569	0	
137	N139A	-9.012778	0	-88.341969	0	
138	N140A	-21.012778	0	-67.557359	0	
139	N141A	-45.512778	0	-25.122114	0	
140	N142A	-63.012778	0	5.188775	0	
141	N143	-81.012778	0	36.36569	0	
142	N144A	-9.012778	38.	-88.341969	0	
143	N145	-21.012778	38.	-67.557359	0	
144	N146	-45.512778	38.	-25.122114	0	
145	N147	-63.012778	38.	5.188775	0	
146	N148A	-81.012778	38.	36.36569	0	
147	N149	-9.012778	-34.	-88.341969	0	
148	N150	-21.012778	-34.	-67.557359	0	
149	N151	-45.512778	-34.	-25.122114	0	
150	N152	-63.012778	-34.	5.188775	0	
151	N153	-81.012778	-34.	36.36569	0	
152	N152A	-0.	0	-31.	0	
153	N153A	4.	0	-31.	0	
154	N154	4.	30	-31.	0	
155	N155	4.	-6	-31.	0	
156	N156	75.	30	48.976279	0	
157	N157	-75.	30	48.976279	0	
158	N158	-72.	30	48.976279	0	
159	N159	-48.	30	48.976279	0	
160	N160	1.	30	48.976279	0	
161	N161	36.	30	48.976279	0	
162	N162	72.	30	48.976279	0	
163	N163	-72.	30	51.976279	0	
164	N164	-48.	30	51.976279	0	
165	N165	1.	30	51.976279	0	
166	N166	36.	30	51.976279	0	
167	N167	72	30	51.976279	0	
168	N168	51.	30	48.976279	0	
169	N169	-51.	30	48.976279	0	
170	N170	51.	30	46.976279	0	
171	N171	-51.	30	46.976279	0	
172	N173	4.914702	30	-89.440045	0	
173	N174	79.914702	30	40.463766	0	
174	N175	78.414702	30	37.86569	0	
175	N176	66.414702	30	17.08108	0	
176	N177	41.914702	30	-25.354165	0	
177	N178	24.414702	30	-55.665054	0	
178	N179	6.414702	30	-86.841969	0	
179	N180	81.012778	30	36.36569	0	
180	N181	69.012778	30	15.58108	0	
181	N182	44.512778	30	-26.854165	0	
182	N183	27.012778	30	-57.165054	0	
183	N184	9.012778	30	-88.341969	0	
184	N185	16.914702	30	-68.655435	0	
185	N186	67.914702	30	19.679156	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
186	N187	15.182651	30	-67.655435	0	
187	N188	66.182651	30	20.679156	0	
188	N190	-79.914702	30	40.463766	0	
189	N191	-4.914702	30	-89.440045	0	
190	N192	-6.414702	30	-86.841969	0	
191	N193	-18.414702	30	-66.057359	0	
192	N194	-42.914702	30	-23.622114	0	
193	N195	-60.414702	30	6.688775	0	
194	N196	-78.414702	30	37.86569	0	
195	N197	-9.012778	30	-88.341969	0	
196	N198	-21.012778	30	-67.557359	0	
197	N199	-45.512778	30	-25.122114	0	
198	N200	-63.012778	30	5.188775	0	
199	N201	-81.012778	30	36.36569	0	
200	N202	-67.914702	30	19.679156	0	
201	N203	-16.914702	30	-68.655435	0	
202	N204	-66.182651	30	20.679156	0	
203	N205	-15.182651	30	-67.655435	0	
204	N204A	-45.512778	26.	-25.122114	0	
205	N205A	-47.012778	26.	-22.524038	0	
206	N206	-44.012778	26.	-27.72019	0	
207	N208	-53.248161	26.	-26.124038	0	
208	N209	-50.248161	26.	-31.32019	0	
209	N210	-52.614186	26.	-29.222114	0	
210	N211	-54.114186	26.	-26.624038	0	
211	N212	-51.114186	26.	-31.82019	0	
212	N212A	-48.052008	26.	-23.124038	0	
213	N213	-45.052008	26.	-28.32019	0	
214	N214	-52.614186	38.	-29.222114	0	
215	N215	-52.614186	-34.	-29.222114	0	
216	N216	-45.512778	8.	-25.122114	0	
217	N217	-47.012778	8.	-22.524038	0	
218	N218	-44.012778	8.	-27.72019	0	
219	N219	-53.248161	8.	-26.124038	0	
220	N220	-50.248161	8.	-31.32019	0	
221	N221	-52.614186	8.	-29.222114	0	
222	N222	-54.114186	8.	-26.624038	0	
223	N223	-51.114186	8.	-31.82019	0	
224	N224	-48.052008	8.	-23.124038	0	
225	N225	-45.052008	8.	-28.32019	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horizontal	PIPE_3.0	Beam	Pipe	A53 Gr.B	Typical	2.07	2.85	2.85	5.69
2	MOD Support Rail	PIPE_2.5	Beam	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
3	Standoff Horizontal	HSS4X4X4	Beam	SquareTube	A500 Gr.B Re...	Typical	3.37	7.8	7.8	12.8
4	Corner Plate	PL1/2x6	Beam	BAR	A36 Gr.36	Typical	3	.063	9	.237
5	Platform Crossmem...	HSS4X4X4	Beam	SquareTube	A500 Gr.B Re...	Typical	3.37	7.8	7.8	12.8
6	Grating Support	L2x2x3	Beam	Single Angle	A36 Gr.36	Typical	.722	.271	.271	.009
7	MOD Support Rail ...	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
8	Mount Pipe	PIPE_2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
9	MOD Mount Pipe	PIPE_2.5	Column	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
10	Cross Arm Plate	PL3/8x6	Column	RECT	A36 Gr.36	Typical	2.25	.026	6.75	.101
11	Mod Threaded Rod	SR_0.5	Column	BAR	A36 Gr.36	Typical	.196	.003	.003	.006
12	TES TR	SR_1	Column	BAR	A36 Gr.36	Typical	.785	.049	.049	.098

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1...	Density[k/...	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	.3	.65	.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3
8	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	N1	N2			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
2	M4	N3	N27			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
3	M10	N101	N103A			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
4	M43	N102	N5			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
5	M46	N86C	N87A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
6	M35A	N7	N30			RIGID	None	None	RIGID	Typical
7	M36A	N6	N29			RIGID	None	None	RIGID	Typical
8	M51B	N87C	N6			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
9	M52B	N7	N87B			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
10	M52	N87B	N88C			RIGID	None	None	RIGID	Typical
11	M58	N102	N24			RIGID	None	None	RIGID	Typical
12	M59	N24	N103A			RIGID	None	None	RIGID	Typical
13	M76	N101	N105			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
14	M77	N105	N131			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
15	M79	N131	N86A			RIGID	None	None	RIGID	Typical
16	M80	N87A	N135			Corner Plate	Beam	BAR	A36 Gr.36	Typical
17	M83	N135	N86D			RIGID	None	None	RIGID	Typical
18	M84	N5	N104A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
19	M85	N104A	N144			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
20	M88	N144	N86B			RIGID	None	None	RIGID	Typical
21	M91	N86C	N148			Corner Plate	Beam	BAR	A36 Gr.36	Typical
22	M92	N148	N86E			RIGID	None	None	RIGID	Typical
23	M50	N88C	N88A			RIGID	None	None	RIGID	Typical
24	M51	N88A	N86G			RIGID	None	None	RIGID	Typical
25	M51A	N87C	N86G			RIGID	None	None	RIGID	Typical
26	M52A	N87D	N92			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
27	M53	N95	N97			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
28	M54	N96	N88B			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
29	M55	N106	N107			Corner Plate	Beam	BAR	A36 Gr.36	Typical
30	M56	N90	N94			RIGID	None	None	RIGID	Typical
31	M57	N89	N93			RIGID	None	None	RIGID	Typical
32	M58A	N111	N89			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
33	M59A	N90	N113			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
34	M60	N113	N114			RIGID	None	None	RIGID	Typical
35	M61	N96	N91			RIGID	None	None	RIGID	Typical
36	M62	N91	N97			RIGID	None	None	RIGID	Typical
37	M63	N95	N99			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
38	M64	N99	N100			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
39	M65	N100	N104			RIGID	None	None	RIGID	Typical
40	M66	N107	N101A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
41	M67	N101A	N108			RIGID	None	None	RIGID	Typical
42	M68	N88B	N98			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
43	M69	N98	N102A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
44	M70	N102A	N105A			RIGID	None	None	RIGID	Typical
45	M71	N106	N103			Corner Plate	Beam	BAR	A36 Gr.36	Typical
46	M72	N103	N109			RIGID	None	None	RIGID	Typical
47	M73	N114	N110			RIGID	None	None	RIGID	Typical
48	M74	N110	N112			RIGID	None	None	RIGID	Typical
49	M75	N111	N112			RIGID	None	None	RIGID	Typical
50	M76A	N115	N120			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
51	M77A	N123	N125			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
52	M78	N124	N116			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
53	M79A	N134	N135A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
54	M80A	N118	N122			RIGID	None	None	RIGID	Typical
55	M81	N117	N121			RIGID	None	None	RIGID	Typical
56	M82	N139	N117			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
57	M83A	N118	N141			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
58	M84A	N141	N142			RIGID	None	None	RIGID	Typical
59	M85A	N124	N119			RIGID	None	None	RIGID	Typical
60	M86	N119	N125			RIGID	None	None	RIGID	Typical
61	M87	N123	N127			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
62	M88A	N127	N128			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
63	M89	N128	N132			RIGID	None	None	RIGID	Typical
64	M90	N135A	N129			Corner Plate	Beam	BAR	A36 Gr.36	Typical
65	M91A	N129	N136			RIGID	None	None	RIGID	Typical
66	M92A	N116	N126			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
67	M93	N126	N130			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
68	M94	N130	N133			RIGID	None	None	RIGID	Typical
69	M95	N134	N131A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
70	M96	N131A	N137			RIGID	None	None	RIGID	Typical
71	M97	N142	N138			RIGID	None	None	RIGID	Typical
72	M98	N138	N140			RIGID	None	None	RIGID	Typical
73	M99	N139	N140			RIGID	None	None	RIGID	Typical
74	M82A	N105B	N104B			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
75	M91B	N124A	N125A			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
76	M76B	N92A	N97A			RIGID	None	None	RIGID	Typical
77	M77B	N93A	N98A			RIGID	None	None	RIGID	Typical
78	M78A	N94A	N99A			RIGID	None	None	RIGID	Typical
79	M79B	N95A	N100A			RIGID	None	None	RIGID	Typical
80	M80B	N96A	N101B			RIGID	None	None	RIGID	Typical
81	MP5A	N102B	N107A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
82	MP4A	N103B	N108A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
83	MP3A	N104C	N109A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
84	MP2A	N105C	N110A			MOD Mount Pi...	Column	Pipe	A53 Gr.B	Typical
85	MP1A	N106A	N111A			MOD Mount Pi...	Column	Pipe	A53 Gr.B	Typical
86	M86A	N113A	N118A			RIGID	None	None	RIGID	Typical
87	M87A	N114A	N119A			RIGID	None	None	RIGID	Typical
88	M88B	N115A	N120A			RIGID	None	None	RIGID	Typical
89	M89A	N116A	N121A			RIGID	None	None	RIGID	Typical
90	M90A	N117A	N122A			RIGID	None	None	RIGID	Typical
91	MP5C	N123A	N128A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
92	MP4C	N124B	N129A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
93	MP3C	N125B	N130A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
94	MP2C	N126A	N131B			MOD Mount Pi...	Column	Pipe	A53 Gr.B	Typical
95	MP1C	N127A	N132A			MOD Mount Pi...	Column	Pipe	A53 Gr.B	Typical
96	M96A	N134A	N139A			RIGID	None	None	RIGID	Typical
97	M97A	N135B	N140A			RIGID	None	None	RIGID	Typical
98	M98A	N136A	N141A			RIGID	None	None	RIGID	Typical
99	M99A	N137A	N142A			RIGID	None	None	RIGID	Typical
100	M100	N138A	N143			RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
101	MP5B	N144A	N149			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
102	MP4B	N145	N150			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
103	3	N146	N151			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
104	MP2B	N147	N152			MOD Mount Pi...	Column	Pipe	A53 Gr.B	Typical
105	MP1B	N148A	N153			MOD Mount Pi...	Column	Pipe	A53 Gr.B	Typical
106	M106	N152A	N153A			RIGID	None	None	RIGID	Typical
107	OVP	N154	N155			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
108	M108	N156	N157			MOD Support ...	Beam	Pipe	A53 Gr.B	Typical
109	M109	N158	N163			RIGID	None	None	RIGID	Typical
110	M110	N159	N164			RIGID	None	None	RIGID	Typical
111	M111	N160	N165			RIGID	None	None	RIGID	Typical
112	M112	N161	N166			RIGID	None	None	RIGID	Typical
113	M113	N162	N167			RIGID	None	None	RIGID	Typical
114	M114	N169	N171			RIGID	None	None	RIGID	Typical
115	M115	N168	N170			RIGID	None	None	RIGID	Typical
116	M116	N173	N174			MOD Support ...	Beam	Pipe	A53 Gr.B	Typical
117	M117	N175	N180			RIGID	None	None	RIGID	Typical
118	M118	N176	N181			RIGID	None	None	RIGID	Typical
119	M119	N177	N182			RIGID	None	None	RIGID	Typical
120	M120	N178	N183			RIGID	None	None	RIGID	Typical
121	M121	N179	N184			RIGID	None	None	RIGID	Typical
122	M122	N186	N188			RIGID	None	None	RIGID	Typical
123	M123	N185	N187			RIGID	None	None	RIGID	Typical
124	M124	N190	N191			MOD Support ...	Beam	Pipe	A53 Gr.B	Typical
125	M125	N192	N197			RIGID	None	None	RIGID	Typical
126	M126	N193	N198			RIGID	None	None	RIGID	Typical
127	M127	N194	N199			RIGID	None	None	RIGID	Typical
128	M128	N195	N200			RIGID	None	None	RIGID	Typical
129	M129	N196	N201			RIGID	None	None	RIGID	Typical
130	M130	N203	N205			RIGID	None	None	RIGID	Typical
131	M131	N202	N204			RIGID	None	None	RIGID	Typical
132	M132	N188	N170		90	MOD Support ...	Beam	Single Angle	A36 Gr.36	Typical
133	M133	N171	N204		90	MOD Support ...	Beam	Single Angle	A36 Gr.36	Typical
134	M134	N205	N187		90	MOD Support ...	Beam	Single Angle	A36 Gr.36	Typical
135	M135	N204A	N205A			RIGID	None	None	RIGID	Typical
136	M136	N204A	N206			RIGID	None	None	RIGID	Typical
137	M139	N213	N209			Mod Threaded...	Column	BAR	A36 Gr.36	Typical
138	M140	N212A	N208			Mod Threaded...	Column	BAR	A36 Gr.36	Typical
139	M141	N210	N211			RIGID	None	None	RIGID	Typical
140	M142	N210	N212			RIGID	None	None	RIGID	Typical
141	M141A	N212	N209			RIGID	None	None	RIGID	Typical
142	M142A	N211	N208			RIGID	None	None	RIGID	Typical
143	M143	N206	N213			RIGID	None	None	RIGID	Typical
144	M144	N205A	N212A			RIGID	None	None	RIGID	Typical
145	MP3B	N214	N215			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
146	M146	N216	N217			RIGID	None	None	RIGID	Typical
147	M147	N216	N218			RIGID	None	None	RIGID	Typical
148	M148	N225	N220			Mod Threaded...	Column	BAR	A36 Gr.36	Typical
149	M149	N224	N219			Mod Threaded...	Column	BAR	A36 Gr.36	Typical
150	M150	N221	N222			RIGID	None	None	RIGID	Typical
151	M151	N221	N223			RIGID	None	None	RIGID	Typical
152	M152	N223	N220			RIGID	None	None	RIGID	Typical
153	M153	N222	N219			RIGID	None	None	RIGID	Typical
154	M154	N218	N225			RIGID	None	None	RIGID	Typical
155	M155	N217	N224			RIGID	None	None	RIGID	Typical

Hot Rolled Steel Design Parameters

	Label	Shape	Length[in]	Lbyy[in]	Lbzz[in]	Lcomp top[in]	Lcomp bot[in]	L-torqu...	Kyy	Kzz	Cb	Function
1	M1	Face Horizo...	150			Lbyy						Lateral
2	M4	Standoff Ho...	62.25			Lbyy						Lateral
3	M10	Platform Cr...	28.5			Lbyy						Lateral
4	M43	Platform Cr...	28.5			Lbyy						Lateral
5	M46	Corner Plate	12.375			Lbyy						Lateral
6	M51B	Grating Sup...	49.941			Lbyy						Lateral
7	M52B	Grating Sup...	49.941			Lbyy						Lateral
8	M76	Cross Arm ...	2.625									Lateral
9	M77	Cross Arm ...	2									Lateral
10	M80	Corner Plate	1.344			Lbyy						Lateral
11	M84	Cross Arm ...	2.625									Lateral
12	M85	Cross Arm ...	2									Lateral
13	M91	Corner Plate	1.344			Lbyy						Lateral
14	M52A	Standoff Ho...	62.25			Lbyy						Lateral
15	M53	Platform Cr...	28.5			Lbyy						Lateral
16	M54	Platform Cr...	28.5			Lbyy						Lateral
17	M55	Corner Plate	12.375			Lbyy						Lateral
18	M58A	Grating Sup...	49.941			Lbyy						Lateral
19	M59A	Grating Sup...	49.941			Lbyy						Lateral
20	M63	Cross Arm ...	2.625									Lateral
21	M64	Cross Arm ...	2									Lateral
22	M66	Corner Plate	1.344			Lbyy						Lateral
23	M68	Cross Arm ...	2.625									Lateral
24	M69	Cross Arm ...	2									Lateral
25	M71	Corner Plate	1.344			Lbyy						Lateral
26	M76A	Standoff Ho...	62.25			Lbyy						Lateral
27	M77A	Platform Cr...	28.5			Lbyy						Lateral
28	M78	Platform Cr...	28.5			Lbyy						Lateral
29	M79A	Corner Plate	12.375			Lbyy						Lateral
30	M82	Grating Sup...	49.941			Lbyy						Lateral
31	M83A	Grating Sup...	49.941			Lbyy						Lateral
32	M87	Cross Arm ...	2.625									Lateral
33	M88A	Cross Arm ...	2									Lateral
34	M90	Corner Plate	1.344			Lbyy						Lateral
35	M92A	Cross Arm ...	2.625									Lateral
36	M93	Cross Arm ...	2									Lateral
37	M95	Corner Plate	1.344			Lbyy						Lateral
38	M82A	Face Horizo...	150			Lbyy						Lateral
39	M91B	Face Horizo...	150			Lbyy						Lateral
40	MP5A	Mount Pipe	72									Lateral
41	MP4A	Mount Pipe	72									Lateral
42	MP3A	Mount Pipe	72									Lateral
43	MP2A	MOD Mount...	72									Lateral
44	MP1A	MOD Mount...	72									Lateral
45	MP5C	Mount Pipe	72									Lateral
46	MP4C	Mount Pipe	72									Lateral
47	MP3C	Mount Pipe	72									Lateral
48	MP2C	MOD Mount...	72									Lateral
49	MP1C	MOD Mount...	72									Lateral
50	MP5B	Mount Pipe	72									Lateral
51	MP4B	Mount Pipe	72									Lateral
52	3	Mount Pipe	72									Lateral
53	MP2B	MOD Mount...	72									Lateral
54	MP1B	MOD Mount...	72									Lateral
55	OVP	Mount Pipe	36									Lateral
56	M108	MOD Supp...	150			Lbyy						Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length[in]	Lbyy[in]	Lbzz[in]	Lcomp top[in]	Lcomp bot[in]	L-torqu...	Kyy	Kzz	Cb	Function
57	M116	MOD Supp...	150			Lbyy						Lateral
58	M124	MOD Supp...	150			Lbyy						Lateral
59	M132	MOD Supp...	30.365			Lbyy						Lateral
60	M133	MOD Supp...	30.365			Lbyy						Lateral
61	M134	MOD Supp...	30.365			Lbyy						Lateral
62	M139	Mod Thread...	6									Lateral
63	M140	Mod Thread...	6									Lateral
64	MP3B	Mount Pipe	72									Lateral
65	M148	Mod Thread...	6									Lateral
66	M149	Mod Thread...	6									Lateral

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	Y	-23	0
2	MP1A	My	-.011	0
3	MP1A	Mz	.015	0
4	MP1A	Y	-23	60
5	MP1A	My	-.011	60
6	MP1A	Mz	.015	60
7	MP1B	Y	-23	0
8	MP1B	My	-.015	0
9	MP1B	Mz	-.011	0
10	MP1B	Y	-23	60
11	MP1B	My	-.015	60
12	MP1B	Mz	-.011	60
13	MP1C	Y	-23	0
14	MP1C	My	.019	0
15	MP1C	Mz	-.001	0
16	MP1C	Y	-23	60
17	MP1C	My	.019	60
18	MP1C	Mz	-.001	60
19	MP1A	Y	-23	0
20	MP1A	My	-.011	0
21	MP1A	Mz	-.015	0
22	MP1A	Y	-23	60
23	MP1A	My	-.011	60
24	MP1A	Mz	-.015	60
25	MP1B	Y	-23	0
26	MP1B	My	.015	0
27	MP1B	Mz	-.011	0
28	MP1B	Y	-23	60
29	MP1B	My	.015	60
30	MP1B	Mz	-.011	60
31	MP1C	Y	-23	0
32	MP1C	My	-.004	0
33	MP1C	Mz	.019	0
34	MP1C	Y	-23	60
35	MP1C	My	-.004	60
36	MP1C	Mz	.019	60
37	MP3A	Y	-43.55	18
38	MP3A	My	-.022	18
39	MP3A	Mz	0	18
40	MP3A	Y	-43.55	42
41	MP3A	My	-.022	42
42	MP3A	Mz	0	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
43	MP3B	Y	-43.55	18
44	MP3B	My	0	18
45	MP3B	Mz	-.022	18
46	MP3B	Y	-43.55	42
47	MP3B	My	0	42
48	MP3B	Mz	-.022	42
49	MP3C	Y	-43.55	18
50	MP3C	My	.014	18
51	MP3C	Mz	.017	18
52	MP3C	Y	-43.55	42
53	MP3C	My	.014	42
54	MP3C	Mz	.017	42
55	OVP	Y	-32	12
56	OVP	My	0	12
57	OVP	Mz	0	12
58	MP2A	Y	-74.7	24
59	MP2A	My	.037	24
60	MP2A	Mz	0	24
61	MP2B	Y	-74.7	24
62	MP2B	My	0	24
63	MP2B	Mz	.037	24
64	MP2C	Y	-74.7	24
65	MP2C	My	-.024	24
66	MP2C	Mz	-.029	24
67	MP1A	Y	-70.3	24
68	MP1A	My	.035	24
69	MP1A	Mz	0	24
70	MP1B	Y	-70.3	24
71	MP1B	My	0	24
72	MP1B	Mz	.035	24
73	MP1C	Y	-70.3	24
74	MP1C	My	-.023	24
75	MP1C	Mz	-.027	24
76	MP5A	Y	-13.9	18
77	MP5A	My	-.007	18
78	MP5A	Mz	0	18
79	MP5A	Y	-13.9	42
80	MP5A	My	-.007	42
81	MP5A	Mz	0	42
82	MP5B	Y	-13.9	18
83	MP5B	My	0	18
84	MP5B	Mz	-.007	18
85	MP5B	Y	-13.9	42
86	MP5B	My	0	42
87	MP5B	Mz	-.007	42
88	MP5C	Y	-13.9	18
89	MP5C	My	.004	18
90	MP5C	Mz	.005	18
91	MP5C	Y	-13.9	42
92	MP5C	My	.004	42
93	MP5C	Mz	.005	42

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	Y	-83.047	0
2	MP1A	My	-.042	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
3	MP1A	Mz	.055	0
4	MP1A	Y	-83.047	60
5	MP1A	My	-.042	60
6	MP1A	Mz	.055	60
7	MP1B	Y	-83.047	0
8	MP1B	My	-.055	0
9	MP1B	Mz	-.042	0
10	MP1B	Y	-83.047	60
11	MP1B	My	-.055	60
12	MP1B	Mz	-.042	60
13	MP1C	Y	-83.047	0
14	MP1C	My	.069	0
15	MP1C	Mz	-.004	0
16	MP1C	Y	-83.047	60
17	MP1C	My	.069	60
18	MP1C	Mz	-.004	60
19	MP1A	Y	-83.047	0
20	MP1A	My	-.042	0
21	MP1A	Mz	-.055	0
22	MP1A	Y	-83.047	60
23	MP1A	My	-.042	60
24	MP1A	Mz	-.055	60
25	MP1B	Y	-83.047	0
26	MP1B	My	.055	0
27	MP1B	Mz	-.042	0
28	MP1B	Y	-83.047	60
29	MP1B	My	.055	60
30	MP1B	Mz	-.042	60
31	MP1C	Y	-83.047	0
32	MP1C	My	-.016	0
33	MP1C	Mz	.067	0
34	MP1C	Y	-83.047	60
35	MP1C	My	-.016	60
36	MP1C	Mz	.067	60
37	MP3A	Y	-35.872	18
38	MP3A	My	-.018	18
39	MP3A	Mz	0	18
40	MP3A	Y	-35.872	42
41	MP3A	My	-.018	42
42	MP3A	Mz	0	42
43	MP3B	Y	-35.872	18
44	MP3B	My	0	18
45	MP3B	Mz	-.018	18
46	MP3B	Y	-35.872	42
47	MP3B	My	0	42
48	MP3B	Mz	-.018	42
49	MP3C	Y	-35.872	18
50	MP3C	My	.012	18
51	MP3C	Mz	.014	18
52	MP3C	Y	-35.872	42
53	MP3C	My	.012	42
54	MP3C	Mz	.014	42
55	OVP	Y	-88.541	12
56	OVP	My	0	12
57	OVP	Mz	0	12
58	MP2A	Y	-45.231	24
59	MP2A	My	.023	24

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
60	MP2A	Mz	0	24
61	MP2B	Y	-45.231	24
62	MP2B	My	0	24
63	MP2B	Mz	.023	24
64	MP2C	Y	-45.231	24
65	MP2C	My	-.015	24
66	MP2C	Mz	-.017	24
67	MP1A	Y	-43.075	24
68	MP1A	My	.022	24
69	MP1A	Mz	0	24
70	MP1B	Y	-43.075	24
71	MP1B	My	0	24
72	MP1B	Mz	.022	24
73	MP1C	Y	-43.075	24
74	MP1C	My	-.014	24
75	MP1C	Mz	-.016	24
76	MP5A	Y	-42.61	18
77	MP5A	My	-.021	18
78	MP5A	Mz	0	18
79	MP5A	Y	-42.61	42
80	MP5A	My	-.021	42
81	MP5A	Mz	0	42
82	MP5B	Y	-42.61	18
83	MP5B	My	0	18
84	MP5B	Mz	-.021	18
85	MP5B	Y	-42.61	42
86	MP5B	My	0	42
87	MP5B	Mz	-.021	42
88	MP5C	Y	-42.61	18
89	MP5C	My	.014	18
90	MP5C	Mz	.016	18
91	MP5C	Y	-42.61	42
92	MP5C	My	.014	42
93	MP5C	Mz	.016	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	0	0
2	MP1A	Z	-190.711	0
3	MP1A	Mx	-.127	0
4	MP1A	X	0	60
5	MP1A	Z	-190.711	60
6	MP1A	Mx	-.127	60
7	MP1B	X	0	0
8	MP1B	Z	-141.786	0
9	MP1B	Mx	.071	0
10	MP1B	X	0	60
11	MP1B	Z	-141.786	60
12	MP1B	Mx	.071	60
13	MP1C	X	0	0
14	MP1C	Z	-162.001	0
15	MP1C	Mx	.007	0
16	MP1C	X	0	60
17	MP1C	Z	-162.001	60
18	MP1C	Mx	.007	60
19	MP1A	X	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
20	MP1A	Z	-190.711	0
21	MP1A	Mx	.127	0
22	MP1A	X	0	60
23	MP1A	Z	-190.711	60
24	MP1A	Mx	.127	60
25	MP1B	X	0	0
26	MP1B	Z	-141.786	0
27	MP1B	Mx	.071	0
28	MP1B	X	0	60
29	MP1B	Z	-141.786	60
30	MP1B	Mx	.071	60
31	MP1C	X	0	0
32	MP1C	Z	-162.001	0
33	MP1C	Mx	-.131	0
34	MP1C	X	0	60
35	MP1C	Z	-162.001	60
36	MP1C	Mx	-.131	60
37	MP3A	X	0	18
38	MP3A	Z	-90.815	18
39	MP3A	Mx	0	18
40	MP3A	X	0	42
41	MP3A	Z	-90.815	42
42	MP3A	Mx	0	42
43	MP3B	X	0	18
44	MP3B	Z	-35.554	18
45	MP3B	Mx	.018	18
46	MP3B	X	0	42
47	MP3B	Z	-35.554	42
48	MP3B	Mx	.018	42
49	MP3C	X	0	18
50	MP3C	Z	-58.386	18
51	MP3C	Mx	-.022	18
52	MP3C	X	0	42
53	MP3C	Z	-58.386	42
54	MP3C	Mx	-.022	42
55	OVP	X	0	12
56	OVP	Z	-147.598	12
57	OVP	Mx	0	12
58	MP2A	X	0	24
59	MP2A	Z	-72.265	24
60	MP2A	Mx	0	24
61	MP2B	X	0	24
62	MP2B	Z	-48.306	24
63	MP2B	Mx	-.024	24
64	MP2C	X	0	24
65	MP2C	Z	-58.205	24
66	MP2C	Mx	.022	24
67	MP1A	X	0	24
68	MP1A	Z	-72.265	24
69	MP1A	Mx	0	24
70	MP1B	X	0	24
71	MP1B	Z	-43.958	24
72	MP1B	Mx	-.022	24
73	MP1C	X	0	24
74	MP1C	Z	-55.654	24
75	MP1C	Mx	.021	24
76	MP5A	X	0	18

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
77	MP5A	Z	-98.351	18
78	MP5A	Mx	0	18
79	MP5A	X	0	42
80	MP5A	Z	-98.351	42
81	MP5A	Mx	0	42
82	MP5B	X	0	18
83	MP5B	Z	-64.341	18
84	MP5B	Mx	.032	18
85	MP5B	X	0	42
86	MP5B	Z	-64.341	42
87	MP5B	Mx	.032	42
88	MP5C	X	0	18
89	MP5C	Z	-78.393	18
90	MP5C	Mx	-.03	18
91	MP5C	X	0	42
92	MP5C	Z	-78.393	42
93	MP5C	Mx	-.03	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	89.24	0
2	MP1A	Z	-154.568	0
3	MP1A	Mx	-.148	0
4	MP1A	X	89.24	60
5	MP1A	Z	-154.568	60
6	MP1A	Mx	-.148	60
7	MP1B	X	77.009	0
8	MP1B	Z	-133.383	0
9	MP1B	Mx	.015	0
10	MP1B	X	77.009	60
11	MP1B	Z	-133.383	60
12	MP1B	Mx	.015	60
13	MP1C	X	92.494	0
14	MP1C	Z	-160.204	0
15	MP1C	Mx	.084	0
16	MP1C	X	92.494	60
17	MP1C	Z	-160.204	60
18	MP1C	Mx	.084	60
19	MP1A	X	89.24	0
20	MP1A	Z	-154.568	0
21	MP1A	Mx	.058	0
22	MP1A	X	89.24	60
23	MP1A	Z	-154.568	60
24	MP1A	Mx	.058	60
25	MP1B	X	77.009	0
26	MP1B	Z	-133.383	0
27	MP1B	Mx	.118	0
28	MP1B	X	77.009	60
29	MP1B	Z	-133.383	60
30	MP1B	Mx	.118	60
31	MP1C	X	92.494	0
32	MP1C	Z	-160.204	0
33	MP1C	Mx	-.148	0
34	MP1C	X	92.494	60
35	MP1C	Z	-160.204	60
36	MP1C	Mx	-.148	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
37	MP3A	X	38.5	18
38	MP3A	Z	-66.684	18
39	MP3A	Mx	-.019	18
40	MP3A	X	38.5	42
41	MP3A	Z	-66.684	42
42	MP3A	Mx	-.019	42
43	MP3B	X	24.685	18
44	MP3B	Z	-42.755	18
45	MP3B	Mx	.021	18
46	MP3B	X	24.685	42
47	MP3B	Z	-42.755	42
48	MP3B	Mx	.021	42
49	MP3C	X	42.175	18
50	MP3C	Z	-73.05	18
51	MP3C	Mx	-.014	18
52	MP3C	X	42.175	42
53	MP3C	Z	-73.05	42
54	MP3C	Mx	-.014	42
55	OVP	X	64.5	12
56	OVP	Z	-111.718	12
57	OVP	Mx	0	12
58	MP2A	X	33.138	24
59	MP2A	Z	-57.396	24
60	MP2A	Mx	.017	24
61	MP2B	X	27.148	24
62	MP2B	Z	-47.021	24
63	MP2B	Mx	-.024	24
64	MP2C	X	34.731	24
65	MP2C	Z	-60.156	24
66	MP2C	Mx	.012	24
67	MP1A	X	32.594	24
68	MP1A	Z	-56.455	24
69	MP1A	Mx	.016	24
70	MP1B	X	25.518	24
71	MP1B	Z	-44.198	24
72	MP1B	Mx	-.022	24
73	MP1C	X	34.477	24
74	MP1C	Z	-59.716	24
75	MP1C	Mx	.012	24
76	MP5A	X	44.924	18
77	MP5A	Z	-77.811	18
78	MP5A	Mx	-.022	18
79	MP5A	X	44.924	42
80	MP5A	Z	-77.811	42
81	MP5A	Mx	-.022	42
82	MP5B	X	36.422	18
83	MP5B	Z	-63.084	18
84	MP5B	Mx	.032	18
85	MP5B	X	36.422	42
86	MP5B	Z	-63.084	42
87	MP5B	Mx	.032	42
88	MP5C	X	47.186	18
89	MP5C	Z	-81.729	18
90	MP5C	Mx	-.016	18
91	MP5C	X	47.186	42
92	MP5C	Z	-81.729	42
93	MP5C	Mx	-.016	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	133.383	0
2	MP1A	Z	-77.009	0
3	MP1A	Mx	-.118	0
4	MP1A	X	133.383	60
5	MP1A	Z	-77.009	60
6	MP1A	Mx	-.118	60
7	MP1B	X	154.568	0
8	MP1B	Z	-89.24	0
9	MP1B	Mx	-.058	0
10	MP1B	X	154.568	60
11	MP1B	Z	-89.24	60
12	MP1B	Mx	-.058	60
13	MP1C	X	163.883	0
14	MP1C	Z	-94.618	0
15	MP1C	Mx	.141	0
16	MP1C	X	163.883	60
17	MP1C	Z	-94.618	60
18	MP1C	Mx	.141	60
19	MP1A	X	133.383	0
20	MP1A	Z	-77.009	0
21	MP1A	Mx	-.015	0
22	MP1A	X	133.383	60
23	MP1A	Z	-77.009	60
24	MP1A	Mx	-.015	60
25	MP1B	X	154.568	0
26	MP1B	Z	-89.24	0
27	MP1B	Mx	.148	0
28	MP1B	X	154.568	60
29	MP1B	Z	-89.24	60
30	MP1B	Mx	.148	60
31	MP1C	X	163.883	0
32	MP1C	Z	-94.618	0
33	MP1C	Mx	-.108	0
34	MP1C	X	163.883	60
35	MP1C	Z	-94.618	60
36	MP1C	Mx	-.108	60
37	MP3A	X	42.755	18
38	MP3A	Z	-24.685	18
39	MP3A	Mx	-.021	18
40	MP3A	X	42.755	42
41	MP3A	Z	-24.685	42
42	MP3A	Mx	-.021	42
43	MP3B	X	66.684	18
44	MP3B	Z	-38.5	18
45	MP3B	Mx	.019	18
46	MP3B	X	66.684	42
47	MP3B	Z	-38.5	42
48	MP3B	Mx	.019	42
49	MP3C	X	77.205	18
50	MP3C	Z	-44.574	18
51	MP3C	Mx	.008	18
52	MP3C	X	77.205	42
53	MP3C	Z	-44.574	42
54	MP3C	Mx	.008	42
55	OVP	X	103.665	12
56	OVP	Z	-59.851	12
57	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP2A	X	47.021	24
59	MP2A	Z	-27.148	24
60	MP2A	Mx	.024	24
61	MP2B	X	57.396	24
62	MP2B	Z	-33.138	24
63	MP2B	Mx	-.017	24
64	MP2C	X	61.958	24
65	MP2C	Z	-35.771	24
66	MP2C	Mx	-.006	24
67	MP1A	X	44.198	24
68	MP1A	Z	-25.518	24
69	MP1A	Mx	.022	24
70	MP1B	X	56.455	24
71	MP1B	Z	-32.594	24
72	MP1B	Mx	-.016	24
73	MP1C	X	61.844	24
74	MP1C	Z	-35.706	24
75	MP1C	Mx	-.006	24
76	MP5A	X	63.084	18
77	MP5A	Z	-36.422	18
78	MP5A	Mx	-.032	18
79	MP5A	X	63.084	42
80	MP5A	Z	-36.422	42
81	MP5A	Mx	-.032	42
82	MP5B	X	77.811	18
83	MP5B	Z	-44.924	18
84	MP5B	Mx	.022	18
85	MP5B	X	77.811	42
86	MP5B	Z	-44.924	42
87	MP5B	Mx	.022	42
88	MP5C	X	84.286	18
89	MP5C	Z	-48.663	18
90	MP5C	Mx	.008	18
91	MP5C	X	84.286	42
92	MP5C	Z	-48.663	42
93	MP5C	Mx	.008	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	141.786	0
2	MP1A	Z	0	0
3	MP1A	Mx	-.071	0
4	MP1A	X	141.786	60
5	MP1A	Z	0	60
6	MP1A	Mx	-.071	60
7	MP1B	X	190.711	0
8	MP1B	Z	0	0
9	MP1B	Mx	-.127	0
10	MP1B	X	190.711	60
11	MP1B	Z	0	60
12	MP1B	Mx	-.127	60
13	MP1C	X	170.497	0
14	MP1C	Z	0	0
15	MP1C	Mx	.142	0
16	MP1C	X	170.497	60
17	MP1C	Z	0	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
18	MP1C	Mx	.142	60
19	MP1A	X	141.786	0
20	MP1A	Z	0	0
21	MP1A	Mx	-.071	0
22	MP1A	X	141.786	60
23	MP1A	Z	0	60
24	MP1A	Mx	-.071	60
25	MP1B	X	190.711	0
26	MP1B	Z	0	0
27	MP1B	Mx	.127	0
28	MP1B	X	190.711	60
29	MP1B	Z	0	60
30	MP1B	Mx	.127	60
31	MP1C	X	170.497	0
32	MP1C	Z	0	0
33	MP1C	Mx	-.032	0
34	MP1C	X	170.497	60
35	MP1C	Z	0	60
36	MP1C	Mx	-.032	60
37	MP3A	X	35.554	18
38	MP3A	Z	0	18
39	MP3A	Mx	-.018	18
40	MP3A	X	35.554	42
41	MP3A	Z	0	42
42	MP3A	Mx	-.018	42
43	MP3B	X	90.815	18
44	MP3B	Z	0	18
45	MP3B	Mx	0	18
46	MP3B	X	90.815	42
47	MP3B	Z	0	42
48	MP3B	Mx	0	42
49	MP3C	X	67.982	18
50	MP3C	Z	0	18
51	MP3C	Mx	.022	18
52	MP3C	X	67.982	42
53	MP3C	Z	0	42
54	MP3C	Mx	.022	42
55	OVP	X	129.001	12
56	OVP	Z	0	12
57	OVP	Mx	0	12
58	MP2A	X	48.306	24
59	MP2A	Z	0	24
60	MP2A	Mx	.024	24
61	MP2B	X	72.265	24
62	MP2B	Z	0	24
63	MP2B	Mx	0	24
64	MP2C	X	62.366	24
65	MP2C	Z	0	24
66	MP2C	Mx	-.02	24
67	MP1A	X	43.958	24
68	MP1A	Z	0	24
69	MP1A	Mx	.022	24
70	MP1B	X	72.265	24
71	MP1B	Z	0	24
72	MP1B	Mx	0	24
73	MP1C	X	60.57	24
74	MP1C	Z	0	24

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
75	MP1C	Mx	-.019	24
76	MP5A	X	64.341	18
77	MP5A	Z	0	18
78	MP5A	Mx	-.032	18
79	MP5A	X	64.341	42
80	MP5A	Z	0	42
81	MP5A	Mx	-.032	42
82	MP5B	X	98.351	18
83	MP5B	Z	0	18
84	MP5B	Mx	0	18
85	MP5B	X	98.351	42
86	MP5B	Z	0	42
87	MP5B	Mx	0	42
88	MP5C	X	84.299	18
89	MP5C	Z	0	18
90	MP5C	Mx	.027	18
91	MP5C	X	84.299	42
92	MP5C	Z	0	42
93	MP5C	Mx	.027	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	133.383	0
2	MP1A	Z	77.009	0
3	MP1A	Mx	-.015	0
4	MP1A	X	133.383	60
5	MP1A	Z	77.009	60
6	MP1A	Mx	-.015	60
7	MP1B	X	154.568	0
8	MP1B	Z	89.24	0
9	MP1B	Mx	-.148	0
10	MP1B	X	154.568	60
11	MP1B	Z	89.24	60
12	MP1B	Mx	-.148	60
13	MP1C	X	127.747	0
14	MP1C	Z	73.755	0
15	MP1C	Mx	.103	0
16	MP1C	X	127.747	60
17	MP1C	Z	73.755	60
18	MP1C	Mx	.103	60
19	MP1A	X	133.383	0
20	MP1A	Z	77.009	0
21	MP1A	Mx	-.118	0
22	MP1A	X	133.383	60
23	MP1A	Z	77.009	60
24	MP1A	Mx	-.118	60
25	MP1B	X	154.568	0
26	MP1B	Z	89.24	0
27	MP1B	Mx	.058	0
28	MP1B	X	154.568	60
29	MP1B	Z	89.24	60
30	MP1B	Mx	.058	60
31	MP1C	X	127.747	0
32	MP1C	Z	73.755	0
33	MP1C	Mx	.036	0
34	MP1C	X	127.747	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
35	MP1C	Z	73.755	60
36	MP1C	Mx	.036	60
37	MP3A	X	42.755	18
38	MP3A	Z	24.685	18
39	MP3A	Mx	-.021	18
40	MP3A	X	42.755	42
41	MP3A	Z	24.685	42
42	MP3A	Mx	-.021	42
43	MP3B	X	66.684	18
44	MP3B	Z	38.5	18
45	MP3B	Mx	-.019	18
46	MP3B	X	66.684	42
47	MP3B	Z	38.5	42
48	MP3B	Mx	-.019	42
49	MP3C	X	36.389	18
50	MP3C	Z	21.009	18
51	MP3C	Mx	.02	18
52	MP3C	X	36.389	42
53	MP3C	Z	21.009	42
54	MP3C	Mx	.02	42
55	OVP	X	127.824	12
56	OVP	Z	73.799	12
57	OVP	Mx	0	12
58	MP2A	X	47.021	24
59	MP2A	Z	27.148	24
60	MP2A	Mx	.024	24
61	MP2B	X	57.396	24
62	MP2B	Z	33.138	24
63	MP2B	Mx	.017	24
64	MP2C	X	44.261	24
65	MP2C	Z	25.554	24
66	MP2C	Mx	-.024	24
67	MP1A	X	44.198	24
68	MP1A	Z	25.518	24
69	MP1A	Mx	.022	24
70	MP1B	X	56.455	24
71	MP1B	Z	32.594	24
72	MP1B	Mx	.016	24
73	MP1C	X	40.937	24
74	MP1C	Z	23.635	24
75	MP1C	Mx	-.022	24
76	MP5A	X	63.084	18
77	MP5A	Z	36.422	18
78	MP5A	Mx	-.032	18
79	MP5A	X	63.084	42
80	MP5A	Z	36.422	42
81	MP5A	Mx	-.032	42
82	MP5B	X	77.811	18
83	MP5B	Z	44.924	18
84	MP5B	Mx	-.022	18
85	MP5B	X	77.811	42
86	MP5B	Z	44.924	42
87	MP5B	Mx	-.022	42
88	MP5C	X	59.166	18
89	MP5C	Z	34.16	18
90	MP5C	Mx	.032	18
91	MP5C	X	59.166	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
92	MP5C	Z	34.16	42
93	MP5C	Mx	.032	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	89.24	0
2	MP1A	Z	154.568	0
3	MP1A	Mx	.058	0
4	MP1A	X	89.24	60
5	MP1A	Z	154.568	60
6	MP1A	Mx	.058	60
7	MP1B	X	77.009	0
8	MP1B	Z	133.383	0
9	MP1B	Mx	-.118	0
10	MP1B	X	77.009	60
11	MP1B	Z	133.383	60
12	MP1B	Mx	-.118	60
13	MP1C	X	71.631	0
14	MP1C	Z	124.068	0
15	MP1C	Mx	.054	0
16	MP1C	X	71.631	60
17	MP1C	Z	124.068	60
18	MP1C	Mx	.054	60
19	MP1A	X	89.24	0
20	MP1A	Z	154.568	0
21	MP1A	Mx	-.148	0
22	MP1A	X	89.24	60
23	MP1A	Z	154.568	60
24	MP1A	Mx	-.148	60
25	MP1B	X	77.009	0
26	MP1B	Z	133.383	0
27	MP1B	Mx	-.015	0
28	MP1B	X	77.009	60
29	MP1B	Z	133.383	60
30	MP1B	Mx	-.015	60
31	MP1C	X	71.631	0
32	MP1C	Z	124.068	0
33	MP1C	Mx	.087	0
34	MP1C	X	71.631	60
35	MP1C	Z	124.068	60
36	MP1C	Mx	.087	60
37	MP3A	X	38.5	18
38	MP3A	Z	66.684	18
39	MP3A	Mx	-.019	18
40	MP3A	X	38.5	42
41	MP3A	Z	66.684	42
42	MP3A	Mx	-.019	42
43	MP3B	X	24.685	18
44	MP3B	Z	42.755	18
45	MP3B	Mx	-.021	18
46	MP3B	X	24.685	42
47	MP3B	Z	42.755	42
48	MP3B	Mx	-.021	42
49	MP3C	X	18.61	18
50	MP3C	Z	32.234	18
51	MP3C	Mx	.018	18

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
52	MP3C	X	18.61	42
53	MP3C	Z	32.234	42
54	MP3C	Mx	.018	42
55	OVP	X	78.449	12
56	OVP	Z	135.877	12
57	OVP	Mx	0	12
58	MP2A	X	33.138	24
59	MP2A	Z	57.396	24
60	MP2A	Mx	.017	24
61	MP2B	X	27.148	24
62	MP2B	Z	47.021	24
63	MP2B	Mx	.024	24
64	MP2C	X	24.514	24
65	MP2C	Z	42.46	24
66	MP2C	Mx	-.024	24
67	MP1A	X	32.594	24
68	MP1A	Z	56.455	24
69	MP1A	Mx	.016	24
70	MP1B	X	25.518	24
71	MP1B	Z	44.198	24
72	MP1B	Mx	.022	24
73	MP1C	X	22.406	24
74	MP1C	Z	38.808	24
75	MP1C	Mx	-.022	24
76	MP5A	X	44.924	18
77	MP5A	Z	77.811	18
78	MP5A	Mx	-.022	18
79	MP5A	X	44.924	42
80	MP5A	Z	77.811	42
81	MP5A	Mx	-.022	42
82	MP5B	X	36.422	18
83	MP5B	Z	63.084	18
84	MP5B	Mx	-.032	18
85	MP5B	X	36.422	42
86	MP5B	Z	63.084	42
87	MP5B	Mx	-.032	42
88	MP5C	X	32.683	18
89	MP5C	Z	56.609	18
90	MP5C	Mx	.032	18
91	MP5C	X	32.683	42
92	MP5C	Z	56.609	42
93	MP5C	Mx	.032	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	0	0
2	MP1A	Z	190.711	0
3	MP1A	Mx	.127	0
4	MP1A	X	0	60
5	MP1A	Z	190.711	60
6	MP1A	Mx	.127	60
7	MP1B	X	0	0
8	MP1B	Z	141.786	0
9	MP1B	Mx	-.071	0
10	MP1B	X	0	60
11	MP1B	Z	141.786	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
12	MP1B	Mx	-.071	60
13	MP1C	X	0	0
14	MP1C	Z	162.001	0
15	MP1C	Mx	-.007	0
16	MP1C	X	0	60
17	MP1C	Z	162.001	60
18	MP1C	Mx	-.007	60
19	MP1A	X	0	0
20	MP1A	Z	190.711	0
21	MP1A	Mx	-.127	0
22	MP1A	X	0	60
23	MP1A	Z	190.711	60
24	MP1A	Mx	-.127	60
25	MP1B	X	0	0
26	MP1B	Z	141.786	0
27	MP1B	Mx	-.071	0
28	MP1B	X	0	60
29	MP1B	Z	141.786	60
30	MP1B	Mx	-.071	60
31	MP1C	X	0	0
32	MP1C	Z	162.001	0
33	MP1C	Mx	.131	0
34	MP1C	X	0	60
35	MP1C	Z	162.001	60
36	MP1C	Mx	.131	60
37	MP3A	X	0	18
38	MP3A	Z	90.815	18
39	MP3A	Mx	0	18
40	MP3A	X	0	42
41	MP3A	Z	90.815	42
42	MP3A	Mx	0	42
43	MP3B	X	0	18
44	MP3B	Z	35.554	18
45	MP3B	Mx	-.018	18
46	MP3B	X	0	42
47	MP3B	Z	35.554	42
48	MP3B	Mx	-.018	42
49	MP3C	X	0	18
50	MP3C	Z	58.386	18
51	MP3C	Mx	.022	18
52	MP3C	X	0	42
53	MP3C	Z	58.386	42
54	MP3C	Mx	.022	42
55	OVP	X	0	12
56	OVP	Z	147.598	12
57	OVP	Mx	0	12
58	MP2A	X	0	24
59	MP2A	Z	72.265	24
60	MP2A	Mx	0	24
61	MP2B	X	0	24
62	MP2B	Z	48.306	24
63	MP2B	Mx	.024	24
64	MP2C	X	0	24
65	MP2C	Z	58.205	24
66	MP2C	Mx	-.022	24
67	MP1A	X	0	24
68	MP1A	Z	72.265	24

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
69	MP1A	Mx	0	24
70	MP1B	X	0	24
71	MP1B	Z	43.958	24
72	MP1B	Mx	.022	24
73	MP1C	X	0	24
74	MP1C	Z	55.654	24
75	MP1C	Mx	-.021	24
76	MP5A	X	0	18
77	MP5A	Z	98.351	18
78	MP5A	Mx	0	18
79	MP5A	X	0	42
80	MP5A	Z	98.351	42
81	MP5A	Mx	0	42
82	MP5B	X	0	18
83	MP5B	Z	64.341	18
84	MP5B	Mx	-.032	18
85	MP5B	X	0	42
86	MP5B	Z	64.341	42
87	MP5B	Mx	-.032	42
88	MP5C	X	0	18
89	MP5C	Z	78.393	18
90	MP5C	Mx	.03	18
91	MP5C	X	0	42
92	MP5C	Z	78.393	42
93	MP5C	Mx	.03	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	-89.24	0
2	MP1A	Z	154.568	0
3	MP1A	Mx	.148	0
4	MP1A	X	-89.24	60
5	MP1A	Z	154.568	60
6	MP1A	Mx	.148	60
7	MP1B	X	-77.009	0
8	MP1B	Z	133.383	0
9	MP1B	Mx	-.015	0
10	MP1B	X	-77.009	60
11	MP1B	Z	133.383	60
12	MP1B	Mx	-.015	60
13	MP1C	X	-92.494	0
14	MP1C	Z	160.204	0
15	MP1C	Mx	-.084	0
16	MP1C	X	-92.494	60
17	MP1C	Z	160.204	60
18	MP1C	Mx	-.084	60
19	MP1A	X	-89.24	0
20	MP1A	Z	154.568	0
21	MP1A	Mx	-.058	0
22	MP1A	X	-89.24	60
23	MP1A	Z	154.568	60
24	MP1A	Mx	-.058	60
25	MP1B	X	-77.009	0
26	MP1B	Z	133.383	0
27	MP1B	Mx	-.118	0
28	MP1B	X	-77.009	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
29	MP1B	Z	133.383	60
30	MP1B	Mx	-.118	60
31	MP1C	X	-92.494	0
32	MP1C	Z	160.204	0
33	MP1C	Mx	.148	0
34	MP1C	X	-92.494	60
35	MP1C	Z	160.204	60
36	MP1C	Mx	.148	60
37	MP3A	X	-38.5	18
38	MP3A	Z	66.684	18
39	MP3A	Mx	.019	18
40	MP3A	X	-38.5	42
41	MP3A	Z	66.684	42
42	MP3A	Mx	.019	42
43	MP3B	X	-24.685	18
44	MP3B	Z	42.755	18
45	MP3B	Mx	-.021	18
46	MP3B	X	-24.685	42
47	MP3B	Z	42.755	42
48	MP3B	Mx	-.021	42
49	MP3C	X	-42.175	18
50	MP3C	Z	73.05	18
51	MP3C	Mx	.014	18
52	MP3C	X	-42.175	42
53	MP3C	Z	73.05	42
54	MP3C	Mx	.014	42
55	OVP	X	-64.5	12
56	OVP	Z	111.718	12
57	OVP	Mx	0	12
58	MP2A	X	-33.138	24
59	MP2A	Z	57.396	24
60	MP2A	Mx	-.017	24
61	MP2B	X	-27.148	24
62	MP2B	Z	47.021	24
63	MP2B	Mx	.024	24
64	MP2C	X	-34.731	24
65	MP2C	Z	60.156	24
66	MP2C	Mx	-.012	24
67	MP1A	X	-32.594	24
68	MP1A	Z	56.455	24
69	MP1A	Mx	-.016	24
70	MP1B	X	-25.518	24
71	MP1B	Z	44.198	24
72	MP1B	Mx	.022	24
73	MP1C	X	-34.477	24
74	MP1C	Z	59.716	24
75	MP1C	Mx	-.012	24
76	MP5A	X	-44.924	18
77	MP5A	Z	77.811	18
78	MP5A	Mx	.022	18
79	MP5A	X	-44.924	42
80	MP5A	Z	77.811	42
81	MP5A	Mx	.022	42
82	MP5B	X	-36.422	18
83	MP5B	Z	63.084	18
84	MP5B	Mx	-.032	18
85	MP5B	X	-36.422	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
86	MP5B	Z	63.084	42
87	MP5B	Mx	-.032	42
88	MP5C	X	-47.186	18
89	MP5C	Z	81.729	18
90	MP5C	Mx	.016	18
91	MP5C	X	-47.186	42
92	MP5C	Z	81.729	42
93	MP5C	Mx	.016	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	-133.383	0
2	MP1A	Z	77.009	0
3	MP1A	Mx	.118	0
4	MP1A	X	-133.383	60
5	MP1A	Z	77.009	60
6	MP1A	Mx	.118	60
7	MP1B	X	-154.568	0
8	MP1B	Z	89.24	0
9	MP1B	Mx	.058	0
10	MP1B	X	-154.568	60
11	MP1B	Z	89.24	60
12	MP1B	Mx	.058	60
13	MP1C	X	-163.883	0
14	MP1C	Z	94.618	0
15	MP1C	Mx	-.141	0
16	MP1C	X	-163.883	60
17	MP1C	Z	94.618	60
18	MP1C	Mx	-.141	60
19	MP1A	X	-133.383	0
20	MP1A	Z	77.009	0
21	MP1A	Mx	.015	0
22	MP1A	X	-133.383	60
23	MP1A	Z	77.009	60
24	MP1A	Mx	.015	60
25	MP1B	X	-154.568	0
26	MP1B	Z	89.24	0
27	MP1B	Mx	-.148	0
28	MP1B	X	-154.568	60
29	MP1B	Z	89.24	60
30	MP1B	Mx	-.148	60
31	MP1C	X	-163.883	0
32	MP1C	Z	94.618	0
33	MP1C	Mx	.108	0
34	MP1C	X	-163.883	60
35	MP1C	Z	94.618	60
36	MP1C	Mx	.108	60
37	MP3A	X	-42.755	18
38	MP3A	Z	24.685	18
39	MP3A	Mx	.021	18
40	MP3A	X	-42.755	42
41	MP3A	Z	24.685	42
42	MP3A	Mx	.021	42
43	MP3B	X	-66.684	18
44	MP3B	Z	38.5	18
45	MP3B	Mx	-.019	18

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
46	MP3B	X	-66.684	42
47	MP3B	Z	38.5	42
48	MP3B	Mx	-.019	42
49	MP3C	X	-77.205	18
50	MP3C	Z	44.574	18
51	MP3C	Mx	-.008	18
52	MP3C	X	-77.205	42
53	MP3C	Z	44.574	42
54	MP3C	Mx	-.008	42
55	OVP	X	-103.665	12
56	OVP	Z	59.851	12
57	OVP	Mx	0	12
58	MP2A	X	-47.021	24
59	MP2A	Z	27.148	24
60	MP2A	Mx	-.024	24
61	MP2B	X	-57.396	24
62	MP2B	Z	33.138	24
63	MP2B	Mx	.017	24
64	MP2C	X	-61.958	24
65	MP2C	Z	35.771	24
66	MP2C	Mx	.006	24
67	MP1A	X	-44.198	24
68	MP1A	Z	25.518	24
69	MP1A	Mx	-.022	24
70	MP1B	X	-56.455	24
71	MP1B	Z	32.594	24
72	MP1B	Mx	.016	24
73	MP1C	X	-61.844	24
74	MP1C	Z	35.706	24
75	MP1C	Mx	.006	24
76	MP5A	X	-63.084	18
77	MP5A	Z	36.422	18
78	MP5A	Mx	.032	18
79	MP5A	X	-63.084	42
80	MP5A	Z	36.422	42
81	MP5A	Mx	.032	42
82	MP5B	X	-77.811	18
83	MP5B	Z	44.924	18
84	MP5B	Mx	-.022	18
85	MP5B	X	-77.811	42
86	MP5B	Z	44.924	42
87	MP5B	Mx	-.022	42
88	MP5C	X	-84.286	18
89	MP5C	Z	48.663	18
90	MP5C	Mx	-.008	18
91	MP5C	X	-84.286	42
92	MP5C	Z	48.663	42
93	MP5C	Mx	-.008	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	-141.786	0
2	MP1A	Z	0	0
3	MP1A	Mx	.071	0
4	MP1A	X	-141.786	60
5	MP1A	Z	0	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
6	MP1A	Mx	.071	60
7	MP1B	X	-190.711	0
8	MP1B	Z	0	0
9	MP1B	Mx	.127	0
10	MP1B	X	-190.711	60
11	MP1B	Z	0	60
12	MP1B	Mx	.127	60
13	MP1C	X	-170.497	0
14	MP1C	Z	0	0
15	MP1C	Mx	-.142	0
16	MP1C	X	-170.497	60
17	MP1C	Z	0	60
18	MP1C	Mx	-.142	60
19	MP1A	X	-141.786	0
20	MP1A	Z	0	0
21	MP1A	Mx	.071	0
22	MP1A	X	-141.786	60
23	MP1A	Z	0	60
24	MP1A	Mx	.071	60
25	MP1B	X	-190.711	0
26	MP1B	Z	0	0
27	MP1B	Mx	-.127	0
28	MP1B	X	-190.711	60
29	MP1B	Z	0	60
30	MP1B	Mx	-.127	60
31	MP1C	X	-170.497	0
32	MP1C	Z	0	0
33	MP1C	Mx	.032	0
34	MP1C	X	-170.497	60
35	MP1C	Z	0	60
36	MP1C	Mx	.032	60
37	MP3A	X	-35.554	18
38	MP3A	Z	0	18
39	MP3A	Mx	.018	18
40	MP3A	X	-35.554	42
41	MP3A	Z	0	42
42	MP3A	Mx	.018	42
43	MP3B	X	-90.815	18
44	MP3B	Z	0	18
45	MP3B	Mx	0	18
46	MP3B	X	-90.815	42
47	MP3B	Z	0	42
48	MP3B	Mx	0	42
49	MP3C	X	-67.982	18
50	MP3C	Z	0	18
51	MP3C	Mx	-.022	18
52	MP3C	X	-67.982	42
53	MP3C	Z	0	42
54	MP3C	Mx	-.022	42
55	OVP	X	-129.001	12
56	OVP	Z	0	12
57	OVP	Mx	0	12
58	MP2A	X	-48.306	24
59	MP2A	Z	0	24
60	MP2A	Mx	-.024	24
61	MP2B	X	-72.265	24
62	MP2B	Z	0	24

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
63	MP2B	Mx	0	24
64	MP2C	X	-62.366	24
65	MP2C	Z	0	24
66	MP2C	Mx	.02	24
67	MP1A	X	-43.958	24
68	MP1A	Z	0	24
69	MP1A	Mx	-.022	24
70	MP1B	X	-72.265	24
71	MP1B	Z	0	24
72	MP1B	Mx	0	24
73	MP1C	X	-60.57	24
74	MP1C	Z	0	24
75	MP1C	Mx	.019	24
76	MP5A	X	-64.341	18
77	MP5A	Z	0	18
78	MP5A	Mx	.032	18
79	MP5A	X	-64.341	42
80	MP5A	Z	0	42
81	MP5A	Mx	.032	42
82	MP5B	X	-98.351	18
83	MP5B	Z	0	18
84	MP5B	Mx	0	18
85	MP5B	X	-98.351	42
86	MP5B	Z	0	42
87	MP5B	Mx	0	42
88	MP5C	X	-84.299	18
89	MP5C	Z	0	18
90	MP5C	Mx	-.027	18
91	MP5C	X	-84.299	42
92	MP5C	Z	0	42
93	MP5C	Mx	-.027	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	-133.383	0
2	MP1A	Z	-77.009	0
3	MP1A	Mx	.015	0
4	MP1A	X	-133.383	60
5	MP1A	Z	-77.009	60
6	MP1A	Mx	.015	60
7	MP1B	X	-154.568	0
8	MP1B	Z	-89.24	0
9	MP1B	Mx	.148	0
10	MP1B	X	-154.568	60
11	MP1B	Z	-89.24	60
12	MP1B	Mx	.148	60
13	MP1C	X	-127.747	0
14	MP1C	Z	-73.755	0
15	MP1C	Mx	-.103	0
16	MP1C	X	-127.747	60
17	MP1C	Z	-73.755	60
18	MP1C	Mx	-.103	60
19	MP1A	X	-133.383	0
20	MP1A	Z	-77.009	0
21	MP1A	Mx	.118	0
22	MP1A	X	-133.383	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
23	MP1A	Z	-77.009	60
24	MP1A	Mx	.118	60
25	MP1B	X	-154.568	0
26	MP1B	Z	-89.24	0
27	MP1B	Mx	-.058	0
28	MP1B	X	-154.568	60
29	MP1B	Z	-89.24	60
30	MP1B	Mx	-.058	60
31	MP1C	X	-127.747	0
32	MP1C	Z	-73.755	0
33	MP1C	Mx	-.036	0
34	MP1C	X	-127.747	60
35	MP1C	Z	-73.755	60
36	MP1C	Mx	-.036	60
37	MP3A	X	-42.755	18
38	MP3A	Z	-24.685	18
39	MP3A	Mx	.021	18
40	MP3A	X	-42.755	42
41	MP3A	Z	-24.685	42
42	MP3A	Mx	.021	42
43	MP3B	X	-66.684	18
44	MP3B	Z	-38.5	18
45	MP3B	Mx	.019	18
46	MP3B	X	-66.684	42
47	MP3B	Z	-38.5	42
48	MP3B	Mx	.019	42
49	MP3C	X	-36.389	18
50	MP3C	Z	-21.009	18
51	MP3C	Mx	-.02	18
52	MP3C	X	-36.389	42
53	MP3C	Z	-21.009	42
54	MP3C	Mx	-.02	42
55	OVP	X	-127.824	12
56	OVP	Z	-73.799	12
57	OVP	Mx	0	12
58	MP2A	X	-47.021	24
59	MP2A	Z	-27.148	24
60	MP2A	Mx	-.024	24
61	MP2B	X	-57.396	24
62	MP2B	Z	-33.138	24
63	MP2B	Mx	-.017	24
64	MP2C	X	-44.261	24
65	MP2C	Z	-25.554	24
66	MP2C	Mx	.024	24
67	MP1A	X	-44.198	24
68	MP1A	Z	-25.518	24
69	MP1A	Mx	-.022	24
70	MP1B	X	-56.455	24
71	MP1B	Z	-32.594	24
72	MP1B	Mx	-.016	24
73	MP1C	X	-40.937	24
74	MP1C	Z	-23.635	24
75	MP1C	Mx	.022	24
76	MP5A	X	-63.084	18
77	MP5A	Z	-36.422	18
78	MP5A	Mx	.032	18
79	MP5A	X	-63.084	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
80	MP5A	Z	-36.422	42
81	MP5A	Mx	.032	42
82	MP5B	X	-77.811	18
83	MP5B	Z	-44.924	18
84	MP5B	Mx	.022	18
85	MP5B	X	-77.811	42
86	MP5B	Z	-44.924	42
87	MP5B	Mx	.022	42
88	MP5C	X	-59.166	18
89	MP5C	Z	-34.16	18
90	MP5C	Mx	-.032	18
91	MP5C	X	-59.166	42
92	MP5C	Z	-34.16	42
93	MP5C	Mx	-.032	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	-89.24	0
2	MP1A	Z	-154.568	0
3	MP1A	Mx	-.058	0
4	MP1A	X	-89.24	60
5	MP1A	Z	-154.568	60
6	MP1A	Mx	-.058	60
7	MP1B	X	-77.009	0
8	MP1B	Z	-133.383	0
9	MP1B	Mx	.118	0
10	MP1B	X	-77.009	60
11	MP1B	Z	-133.383	60
12	MP1B	Mx	.118	60
13	MP1C	X	-71.631	0
14	MP1C	Z	-124.068	0
15	MP1C	Mx	-.054	0
16	MP1C	X	-71.631	60
17	MP1C	Z	-124.068	60
18	MP1C	Mx	-.054	60
19	MP1A	X	-89.24	0
20	MP1A	Z	-154.568	0
21	MP1A	Mx	.148	0
22	MP1A	X	-89.24	60
23	MP1A	Z	-154.568	60
24	MP1A	Mx	.148	60
25	MP1B	X	-77.009	0
26	MP1B	Z	-133.383	0
27	MP1B	Mx	.015	0
28	MP1B	X	-77.009	60
29	MP1B	Z	-133.383	60
30	MP1B	Mx	.015	60
31	MP1C	X	-71.631	0
32	MP1C	Z	-124.068	0
33	MP1C	Mx	-.087	0
34	MP1C	X	-71.631	60
35	MP1C	Z	-124.068	60
36	MP1C	Mx	-.087	60
37	MP3A	X	-38.5	18
38	MP3A	Z	-66.684	18
39	MP3A	Mx	.019	18

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
40	MP3A	X	-38.5	42
41	MP3A	Z	-66.684	42
42	MP3A	Mx	.019	42
43	MP3B	X	-24.685	18
44	MP3B	Z	-42.755	18
45	MP3B	Mx	.021	18
46	MP3B	X	-24.685	42
47	MP3B	Z	-42.755	42
48	MP3B	Mx	.021	42
49	MP3C	X	-18.61	18
50	MP3C	Z	-32.234	18
51	MP3C	Mx	-.018	18
52	MP3C	X	-18.61	42
53	MP3C	Z	-32.234	42
54	MP3C	Mx	-.018	42
55	OVP	X	-78.449	12
56	OVP	Z	-135.877	12
57	OVP	Mx	0	12
58	MP2A	X	-33.138	24
59	MP2A	Z	-57.396	24
60	MP2A	Mx	-.017	24
61	MP2B	X	-27.148	24
62	MP2B	Z	-47.021	24
63	MP2B	Mx	-.024	24
64	MP2C	X	-24.514	24
65	MP2C	Z	-42.46	24
66	MP2C	Mx	.024	24
67	MP1A	X	-32.594	24
68	MP1A	Z	-56.455	24
69	MP1A	Mx	-.016	24
70	MP1B	X	-25.518	24
71	MP1B	Z	-44.198	24
72	MP1B	Mx	-.022	24
73	MP1C	X	-22.406	24
74	MP1C	Z	-38.808	24
75	MP1C	Mx	.022	24
76	MP5A	X	-44.924	18
77	MP5A	Z	-77.811	18
78	MP5A	Mx	.022	18
79	MP5A	X	-44.924	42
80	MP5A	Z	-77.811	42
81	MP5A	Mx	.022	42
82	MP5B	X	-36.422	18
83	MP5B	Z	-63.084	18
84	MP5B	Mx	.032	18
85	MP5B	X	-36.422	42
86	MP5B	Z	-63.084	42
87	MP5B	Mx	.032	42
88	MP5C	X	-32.683	18
89	MP5C	Z	-56.609	18
90	MP5C	Mx	-.032	18
91	MP5C	X	-32.683	42
92	MP5C	Z	-56.609	42
93	MP5C	Mx	-.032	42

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

Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	0	0
2	MP1A	Z	-32.252	0
3	MP1A	Mx	-.022	0
4	MP1A	X	0	60
5	MP1A	Z	-32.252	60
6	MP1A	Mx	-.022	60
7	MP1B	X	0	0
8	MP1B	Z	-24.402	0
9	MP1B	Mx	.012	0
10	MP1B	X	0	60
11	MP1B	Z	-24.402	60
12	MP1B	Mx	.012	60
13	MP1C	X	0	0
14	MP1C	Z	-27.645	0
15	MP1C	Mx	.001	0
16	MP1C	X	0	60
17	MP1C	Z	-27.645	60
18	MP1C	Mx	.001	60
19	MP1A	X	0	0
20	MP1A	Z	-32.252	0
21	MP1A	Mx	.022	0
22	MP1A	X	0	60
23	MP1A	Z	-32.252	60
24	MP1A	Mx	.022	60
25	MP1B	X	0	0
26	MP1B	Z	-24.402	0
27	MP1B	Mx	.012	0
28	MP1B	X	0	60
29	MP1B	Z	-24.402	60
30	MP1B	Mx	.012	60
31	MP1C	X	0	0
32	MP1C	Z	-27.645	0
33	MP1C	Mx	-.022	0
34	MP1C	X	0	60
35	MP1C	Z	-27.645	60
36	MP1C	Mx	-.022	60
37	MP3A	X	0	18
38	MP3A	Z	-15.914	18
39	MP3A	Mx	0	18
40	MP3A	X	0	42
41	MP3A	Z	-15.914	42
42	MP3A	Mx	0	42
43	MP3B	X	0	18
44	MP3B	Z	-6.783	18
45	MP3B	Mx	.003	18
46	MP3B	X	0	42
47	MP3B	Z	-6.783	42
48	MP3B	Mx	.003	42
49	MP3C	X	0	18
50	MP3C	Z	-10.556	18
51	MP3C	Mx	-.004	18
52	MP3C	X	0	42
53	MP3C	Z	-10.556	42
54	MP3C	Mx	-.004	42
55	OVP	X	0	12
56	OVP	Z	-26.064	12
57	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP2A	X	0	24
59	MP2A	Z	-13.417	24
60	MP2A	Mx	0	24
61	MP2B	X	0	24
62	MP2B	Z	-9.336	24
63	MP2B	Mx	-.005	24
64	MP2C	X	0	24
65	MP2C	Z	-11.022	24
66	MP2C	Mx	.004	24
67	MP1A	X	0	24
68	MP1A	Z	-13.417	24
69	MP1A	Mx	0	24
70	MP1B	X	0	24
71	MP1B	Z	-8.601	24
72	MP1B	Mx	-.004	24
73	MP1C	X	0	24
74	MP1C	Z	-10.591	24
75	MP1C	Mx	.004	24
76	MP5A	X	0	18
77	MP5A	Z	-17.171	18
78	MP5A	Mx	0	18
79	MP5A	X	0	42
80	MP5A	Z	-17.171	42
81	MP5A	Mx	0	42
82	MP5B	X	0	18
83	MP5B	Z	-11.654	18
84	MP5B	Mx	.006	18
85	MP5B	X	0	42
86	MP5B	Z	-11.654	42
87	MP5B	Mx	.006	42
88	MP5C	X	0	18
89	MP5C	Z	-13.934	18
90	MP5C	Mx	-.005	18
91	MP5C	X	0	42
92	MP5C	Z	-13.934	42
93	MP5C	Mx	-.005	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	15.145	0
2	MP1A	Z	-26.232	0
3	MP1A	Mx	-.025	0
4	MP1A	X	15.145	60
5	MP1A	Z	-26.232	60
6	MP1A	Mx	-.025	60
7	MP1B	X	13.182	0
8	MP1B	Z	-22.832	0
9	MP1B	Mx	.003	0
10	MP1B	X	13.182	60
11	MP1B	Z	-22.832	60
12	MP1B	Mx	.003	60
13	MP1C	X	15.667	0
14	MP1C	Z	-27.136	0
15	MP1C	Mx	.014	0
16	MP1C	X	15.667	60
17	MP1C	Z	-27.136	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
18	MP1C	Mx	.014	60
19	MP1A	X	15.145	0
20	MP1A	Z	-26.232	0
21	MP1A	Mx	.01	0
22	MP1A	X	15.145	60
23	MP1A	Z	-26.232	60
24	MP1A	Mx	.01	60
25	MP1B	X	13.182	0
26	MP1B	Z	-22.832	0
27	MP1B	Mx	.02	0
28	MP1B	X	13.182	60
29	MP1B	Z	-22.832	60
30	MP1B	Mx	.02	60
31	MP1C	X	15.667	0
32	MP1C	Z	-27.136	0
33	MP1C	Mx	-.025	0
34	MP1C	X	15.667	60
35	MP1C	Z	-27.136	60
36	MP1C	Mx	-.025	60
37	MP3A	X	6.816	18
38	MP3A	Z	-11.805	18
39	MP3A	Mx	-.003	18
40	MP3A	X	6.816	42
41	MP3A	Z	-11.805	42
42	MP3A	Mx	-.003	42
43	MP3B	X	4.533	18
44	MP3B	Z	-7.851	18
45	MP3B	Mx	.004	18
46	MP3B	X	4.533	42
47	MP3B	Z	-7.851	42
48	MP3B	Mx	.004	42
49	MP3C	X	7.423	18
50	MP3C	Z	-12.857	18
51	MP3C	Mx	-.003	18
52	MP3C	X	7.423	42
53	MP3C	Z	-12.857	42
54	MP3C	Mx	-.003	42
55	OVP	X	11.53	12
56	OVP	Z	-19.971	12
57	OVP	Mx	0	12
58	MP2A	X	6.199	24
59	MP2A	Z	-10.736	24
60	MP2A	Mx	.003	24
61	MP2B	X	5.178	24
62	MP2B	Z	-8.969	24
63	MP2B	Mx	-.004	24
64	MP2C	X	6.47	24
65	MP2C	Z	-11.206	24
66	MP2C	Mx	.002	24
67	MP1A	X	6.107	24
68	MP1A	Z	-10.577	24
69	MP1A	Mx	.003	24
70	MP1B	X	4.903	24
71	MP1B	Z	-8.491	24
72	MP1B	Mx	-.004	24
73	MP1C	X	6.427	24
74	MP1C	Z	-11.132	24

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
75	MP1C	Mx	.002	24
76	MP5A	X	7.896	18
77	MP5A	Z	-13.676	18
78	MP5A	Mx	-.004	18
79	MP5A	X	7.896	42
80	MP5A	Z	-13.676	42
81	MP5A	Mx	-.004	42
82	MP5B	X	6.517	18
83	MP5B	Z	-11.287	18
84	MP5B	Mx	.006	18
85	MP5B	X	6.517	42
86	MP5B	Z	-11.287	42
87	MP5B	Mx	.006	42
88	MP5C	X	8.263	18
89	MP5C	Z	-14.311	18
90	MP5C	Mx	-.003	18
91	MP5C	X	8.263	42
92	MP5C	Z	-14.311	42
93	MP5C	Mx	-.003	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	22.832	0
2	MP1A	Z	-13.182	0
3	MP1A	Mx	-.02	0
4	MP1A	X	22.832	60
5	MP1A	Z	-13.182	60
6	MP1A	Mx	-.02	60
7	MP1B	X	26.232	0
8	MP1B	Z	-15.145	0
9	MP1B	Mx	-.01	0
10	MP1B	X	26.232	60
11	MP1B	Z	-15.145	60
12	MP1B	Mx	-.01	60
13	MP1C	X	27.726	0
14	MP1C	Z	-16.008	0
15	MP1C	Mx	.024	0
16	MP1C	X	27.726	60
17	MP1C	Z	-16.008	60
18	MP1C	Mx	.024	60
19	MP1A	X	22.832	0
20	MP1A	Z	-13.182	0
21	MP1A	Mx	-.003	0
22	MP1A	X	22.832	60
23	MP1A	Z	-13.182	60
24	MP1A	Mx	-.003	60
25	MP1B	X	26.232	0
26	MP1B	Z	-15.145	0
27	MP1B	Mx	.025	0
28	MP1B	X	26.232	60
29	MP1B	Z	-15.145	60
30	MP1B	Mx	.025	60
31	MP1C	X	27.726	0
32	MP1C	Z	-16.008	0
33	MP1C	Mx	-.018	0
34	MP1C	X	27.726	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
35	MP1C	Z	-16.008	60
36	MP1C	Mx	-.018	60
37	MP3A	X	7.851	18
38	MP3A	Z	-4.533	18
39	MP3A	Mx	-.004	18
40	MP3A	X	7.851	42
41	MP3A	Z	-4.533	42
42	MP3A	Mx	-.004	42
43	MP3B	X	11.805	18
44	MP3B	Z	-6.816	18
45	MP3B	Mx	.003	18
46	MP3B	X	11.805	42
47	MP3B	Z	-6.816	42
48	MP3B	Mx	.003	42
49	MP3C	X	13.544	18
50	MP3C	Z	-7.819	18
51	MP3C	Mx	.001	18
52	MP3C	X	13.544	42
53	MP3C	Z	-7.819	42
54	MP3C	Mx	.001	42
55	OVP	X	18.67	12
56	OVP	Z	-10.779	12
57	OVP	Mx	0	12
58	MP2A	X	8.969	24
59	MP2A	Z	-5.178	24
60	MP2A	Mx	.004	24
61	MP2B	X	10.736	24
62	MP2B	Z	-6.199	24
63	MP2B	Mx	-.003	24
64	MP2C	X	11.513	24
65	MP2C	Z	-6.647	24
66	MP2C	Mx	-.001	24
67	MP1A	X	8.491	24
68	MP1A	Z	-4.903	24
69	MP1A	Mx	.004	24
70	MP1B	X	10.577	24
71	MP1B	Z	-6.107	24
72	MP1B	Mx	-.003	24
73	MP1C	X	11.494	24
74	MP1C	Z	-6.636	24
75	MP1C	Mx	-.001	24
76	MP5A	X	11.287	18
77	MP5A	Z	-6.517	18
78	MP5A	Mx	-.006	18
79	MP5A	X	11.287	42
80	MP5A	Z	-6.517	42
81	MP5A	Mx	-.006	42
82	MP5B	X	13.676	18
83	MP5B	Z	-7.896	18
84	MP5B	Mx	.004	18
85	MP5B	X	13.676	42
86	MP5B	Z	-7.896	42
87	MP5B	Mx	.004	42
88	MP5C	X	14.726	18
89	MP5C	Z	-8.502	18
90	MP5C	Mx	.001	18
91	MP5C	X	14.726	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
92	MP5C	Z	-8.502	42
93	MP5C	Mx	.001	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	24.402	0
2	MP1A	Z	0	0
3	MP1A	Mx	-.012	0
4	MP1A	X	24.402	60
5	MP1A	Z	0	60
6	MP1A	Mx	-.012	60
7	MP1B	X	32.252	0
8	MP1B	Z	0	0
9	MP1B	Mx	-.022	0
10	MP1B	X	32.252	60
11	MP1B	Z	0	60
12	MP1B	Mx	-.022	60
13	MP1C	X	29.009	0
14	MP1C	Z	0	0
15	MP1C	Mx	.024	0
16	MP1C	X	29.009	60
17	MP1C	Z	0	60
18	MP1C	Mx	.024	60
19	MP1A	X	24.402	0
20	MP1A	Z	0	0
21	MP1A	Mx	-.012	0
22	MP1A	X	24.402	60
23	MP1A	Z	0	60
24	MP1A	Mx	-.012	60
25	MP1B	X	32.252	0
26	MP1B	Z	0	0
27	MP1B	Mx	.022	0
28	MP1B	X	32.252	60
29	MP1B	Z	0	60
30	MP1B	Mx	.022	60
31	MP1C	X	29.009	0
32	MP1C	Z	0	0
33	MP1C	Mx	-.005	0
34	MP1C	X	29.009	60
35	MP1C	Z	0	60
36	MP1C	Mx	-.005	60
37	MP3A	X	6.783	18
38	MP3A	Z	0	18
39	MP3A	Mx	-.003	18
40	MP3A	X	6.783	42
41	MP3A	Z	0	42
42	MP3A	Mx	-.003	42
43	MP3B	X	15.914	18
44	MP3B	Z	0	18
45	MP3B	Mx	0	18
46	MP3B	X	15.914	42
47	MP3B	Z	0	42
48	MP3B	Mx	0	42
49	MP3C	X	12.141	18
50	MP3C	Z	0	18
51	MP3C	Mx	.004	18

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
52	MP3C	X	12.141	42
53	MP3C	Z	0	42
54	MP3C	Mx	.004	42
55	OVP	X	23.06	12
56	OVP	Z	0	12
57	OVP	Mx	0	12
58	MP2A	X	9.336	24
59	MP2A	Z	0	24
60	MP2A	Mx	.005	24
61	MP2B	X	13.417	24
62	MP2B	Z	0	24
63	MP2B	Mx	0	24
64	MP2C	X	11.731	24
65	MP2C	Z	0	24
66	MP2C	Mx	-.004	24
67	MP1A	X	8.601	24
68	MP1A	Z	0	24
69	MP1A	Mx	.004	24
70	MP1B	X	13.417	24
71	MP1B	Z	0	24
72	MP1B	Mx	0	24
73	MP1C	X	11.427	24
74	MP1C	Z	0	24
75	MP1C	Mx	-.004	24
76	MP5A	X	11.654	18
77	MP5A	Z	0	18
78	MP5A	Mx	-.006	18
79	MP5A	X	11.654	42
80	MP5A	Z	0	42
81	MP5A	Mx	-.006	42
82	MP5B	X	17.171	18
83	MP5B	Z	0	18
84	MP5B	Mx	0	18
85	MP5B	X	17.171	42
86	MP5B	Z	0	42
87	MP5B	Mx	0	42
88	MP5C	X	14.891	18
89	MP5C	Z	0	18
90	MP5C	Mx	.005	18
91	MP5C	X	14.891	42
92	MP5C	Z	0	42
93	MP5C	Mx	.005	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	22.832	0
2	MP1A	Z	13.182	0
3	MP1A	Mx	-.003	0
4	MP1A	X	22.832	60
5	MP1A	Z	13.182	60
6	MP1A	Mx	-.003	60
7	MP1B	X	26.232	0
8	MP1B	Z	15.145	0
9	MP1B	Mx	-.025	0
10	MP1B	X	26.232	60
11	MP1B	Z	15.145	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
12	MP1B	Mx	-.025	60
13	MP1C	X	21.928	0
14	MP1C	Z	12.66	0
15	MP1C	Mx	.018	0
16	MP1C	X	21.928	60
17	MP1C	Z	12.66	60
18	MP1C	Mx	.018	60
19	MP1A	X	22.832	0
20	MP1A	Z	13.182	0
21	MP1A	Mx	-.02	0
22	MP1A	X	22.832	60
23	MP1A	Z	13.182	60
24	MP1A	Mx	-.02	60
25	MP1B	X	26.232	0
26	MP1B	Z	15.145	0
27	MP1B	Mx	.01	0
28	MP1B	X	26.232	60
29	MP1B	Z	15.145	60
30	MP1B	Mx	.01	60
31	MP1C	X	21.928	0
32	MP1C	Z	12.66	0
33	MP1C	Mx	.006	0
34	MP1C	X	21.928	60
35	MP1C	Z	12.66	60
36	MP1C	Mx	.006	60
37	MP3A	X	7.851	18
38	MP3A	Z	4.533	18
39	MP3A	Mx	-.004	18
40	MP3A	X	7.851	42
41	MP3A	Z	4.533	42
42	MP3A	Mx	-.004	42
43	MP3B	X	11.805	18
44	MP3B	Z	6.816	18
45	MP3B	Mx	-.003	18
46	MP3B	X	11.805	42
47	MP3B	Z	6.816	42
48	MP3B	Mx	-.003	42
49	MP3C	X	6.799	18
50	MP3C	Z	3.925	18
51	MP3C	Mx	.004	18
52	MP3C	X	6.799	42
53	MP3C	Z	3.925	42
54	MP3C	Mx	.004	42
55	OVP	X	22.572	12
56	OVP	Z	13.032	12
57	OVP	Mx	0	12
58	MP2A	X	8.969	24
59	MP2A	Z	5.178	24
60	MP2A	Mx	.004	24
61	MP2B	X	10.736	24
62	MP2B	Z	6.199	24
63	MP2B	Mx	.003	24
64	MP2C	X	8.498	24
65	MP2C	Z	4.907	24
66	MP2C	Mx	-.005	24
67	MP1A	X	8.491	24
68	MP1A	Z	4.903	24

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
69	MP1A	Mx	.004	24
70	MP1B	X	10.577	24
71	MP1B	Z	6.107	24
72	MP1B	Mx	.003	24
73	MP1C	X	7.937	24
74	MP1C	Z	4.582	24
75	MP1C	Mx	-.004	24
76	MP5A	X	11.287	18
77	MP5A	Z	6.517	18
78	MP5A	Mx	-.006	18
79	MP5A	X	11.287	42
80	MP5A	Z	6.517	42
81	MP5A	Mx	-.006	42
82	MP5B	X	13.676	18
83	MP5B	Z	7.896	18
84	MP5B	Mx	-.004	18
85	MP5B	X	13.676	42
86	MP5B	Z	7.896	42
87	MP5B	Mx	-.004	42
88	MP5C	X	10.652	18
89	MP5C	Z	6.15	18
90	MP5C	Mx	.006	18
91	MP5C	X	10.652	42
92	MP5C	Z	6.15	42
93	MP5C	Mx	.006	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	15.145	0
2	MP1A	Z	26.232	0
3	MP1A	Mx	.01	0
4	MP1A	X	15.145	60
5	MP1A	Z	26.232	60
6	MP1A	Mx	.01	60
7	MP1B	X	13.182	0
8	MP1B	Z	22.832	0
9	MP1B	Mx	-.02	0
10	MP1B	X	13.182	60
11	MP1B	Z	22.832	60
12	MP1B	Mx	-.02	60
13	MP1C	X	12.319	0
14	MP1C	Z	21.338	0
15	MP1C	Mx	.009	0
16	MP1C	X	12.319	60
17	MP1C	Z	21.338	60
18	MP1C	Mx	.009	60
19	MP1A	X	15.145	0
20	MP1A	Z	26.232	0
21	MP1A	Mx	-.025	0
22	MP1A	X	15.145	60
23	MP1A	Z	26.232	60
24	MP1A	Mx	-.025	60
25	MP1B	X	13.182	0
26	MP1B	Z	22.832	0
27	MP1B	Mx	-.003	0
28	MP1B	X	13.182	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
29	MP1B	Z	22.832	60
30	MP1B	Mx	-.003	60
31	MP1C	X	12.319	0
32	MP1C	Z	21.338	0
33	MP1C	Mx	.015	0
34	MP1C	X	12.319	60
35	MP1C	Z	21.338	60
36	MP1C	Mx	.015	60
37	MP3A	X	6.816	18
38	MP3A	Z	11.805	18
39	MP3A	Mx	-.003	18
40	MP3A	X	6.816	42
41	MP3A	Z	11.805	42
42	MP3A	Mx	-.003	42
43	MP3B	X	4.533	18
44	MP3B	Z	7.851	18
45	MP3B	Mx	-.004	18
46	MP3B	X	4.533	42
47	MP3B	Z	7.851	42
48	MP3B	Mx	-.004	42
49	MP3C	X	3.529	18
50	MP3C	Z	6.112	18
51	MP3C	Mx	.003	18
52	MP3C	X	3.529	42
53	MP3C	Z	6.112	42
54	MP3C	Mx	.003	42
55	OVP	X	13.783	12
56	OVP	Z	23.872	12
57	OVP	Mx	0	12
58	MP2A	X	6.199	24
59	MP2A	Z	10.736	24
60	MP2A	Mx	.003	24
61	MP2B	X	5.178	24
62	MP2B	Z	8.969	24
63	MP2B	Mx	.004	24
64	MP2C	X	4.729	24
65	MP2C	Z	8.191	24
66	MP2C	Mx	-.005	24
67	MP1A	X	6.107	24
68	MP1A	Z	10.577	24
69	MP1A	Mx	.003	24
70	MP1B	X	4.903	24
71	MP1B	Z	8.491	24
72	MP1B	Mx	.004	24
73	MP1C	X	4.373	24
74	MP1C	Z	7.574	24
75	MP1C	Mx	-.004	24
76	MP5A	X	7.896	18
77	MP5A	Z	13.676	18
78	MP5A	Mx	-.004	18
79	MP5A	X	7.896	42
80	MP5A	Z	13.676	42
81	MP5A	Mx	-.004	42
82	MP5B	X	6.517	18
83	MP5B	Z	11.287	18
84	MP5B	Mx	-.006	18
85	MP5B	X	6.517	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
86	MP5B	Z	11.287	42
87	MP5B	Mx	-.006	42
88	MP5C	X	5.91	18
89	MP5C	Z	10.237	18
90	MP5C	Mx	.006	18
91	MP5C	X	5.91	42
92	MP5C	Z	10.237	42
93	MP5C	Mx	.006	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	0	0
2	MP1A	Z	32.252	0
3	MP1A	Mx	.022	0
4	MP1A	X	0	60
5	MP1A	Z	32.252	60
6	MP1A	Mx	.022	60
7	MP1B	X	0	0
8	MP1B	Z	24.402	0
9	MP1B	Mx	-.012	0
10	MP1B	X	0	60
11	MP1B	Z	24.402	60
12	MP1B	Mx	-.012	60
13	MP1C	X	0	0
14	MP1C	Z	27.645	0
15	MP1C	Mx	-.001	0
16	MP1C	X	0	60
17	MP1C	Z	27.645	60
18	MP1C	Mx	-.001	60
19	MP1A	X	0	0
20	MP1A	Z	32.252	0
21	MP1A	Mx	-.022	0
22	MP1A	X	0	60
23	MP1A	Z	32.252	60
24	MP1A	Mx	-.022	60
25	MP1B	X	0	0
26	MP1B	Z	24.402	0
27	MP1B	Mx	-.012	0
28	MP1B	X	0	60
29	MP1B	Z	24.402	60
30	MP1B	Mx	-.012	60
31	MP1C	X	0	0
32	MP1C	Z	27.645	0
33	MP1C	Mx	.022	0
34	MP1C	X	0	60
35	MP1C	Z	27.645	60
36	MP1C	Mx	.022	60
37	MP3A	X	0	18
38	MP3A	Z	15.914	18
39	MP3A	Mx	0	18
40	MP3A	X	0	42
41	MP3A	Z	15.914	42
42	MP3A	Mx	0	42
43	MP3B	X	0	18
44	MP3B	Z	6.783	18
45	MP3B	Mx	-.003	18

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
46	MP3B	X	0	42
47	MP3B	Z	6.783	42
48	MP3B	Mx	-.003	42
49	MP3C	X	0	18
50	MP3C	Z	10.556	18
51	MP3C	Mx	.004	18
52	MP3C	X	0	42
53	MP3C	Z	10.556	42
54	MP3C	Mx	.004	42
55	OVP	X	0	12
56	OVP	Z	26.064	12
57	OVP	Mx	0	12
58	MP2A	X	0	24
59	MP2A	Z	13.417	24
60	MP2A	Mx	0	24
61	MP2B	X	0	24
62	MP2B	Z	9.336	24
63	MP2B	Mx	.005	24
64	MP2C	X	0	24
65	MP2C	Z	11.022	24
66	MP2C	Mx	-.004	24
67	MP1A	X	0	24
68	MP1A	Z	13.417	24
69	MP1A	Mx	0	24
70	MP1B	X	0	24
71	MP1B	Z	8.601	24
72	MP1B	Mx	.004	24
73	MP1C	X	0	24
74	MP1C	Z	10.591	24
75	MP1C	Mx	-.004	24
76	MP5A	X	0	18
77	MP5A	Z	17.171	18
78	MP5A	Mx	0	18
79	MP5A	X	0	42
80	MP5A	Z	17.171	42
81	MP5A	Mx	0	42
82	MP5B	X	0	18
83	MP5B	Z	11.654	18
84	MP5B	Mx	-.006	18
85	MP5B	X	0	42
86	MP5B	Z	11.654	42
87	MP5B	Mx	-.006	42
88	MP5C	X	0	18
89	MP5C	Z	13.934	18
90	MP5C	Mx	.005	18
91	MP5C	X	0	42
92	MP5C	Z	13.934	42
93	MP5C	Mx	.005	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	-15.145	0
2	MP1A	Z	26.232	0
3	MP1A	Mx	.025	0
4	MP1A	X	-15.145	60
5	MP1A	Z	26.232	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
6	MP1A	Mx	.025	60
7	MP1B	X	-13.182	0
8	MP1B	Z	22.832	0
9	MP1B	Mx	-.003	0
10	MP1B	X	-13.182	60
11	MP1B	Z	22.832	60
12	MP1B	Mx	-.003	60
13	MP1C	X	-15.667	0
14	MP1C	Z	27.136	0
15	MP1C	Mx	-.014	0
16	MP1C	X	-15.667	60
17	MP1C	Z	27.136	60
18	MP1C	Mx	-.014	60
19	MP1A	X	-15.145	0
20	MP1A	Z	26.232	0
21	MP1A	Mx	-.01	0
22	MP1A	X	-15.145	60
23	MP1A	Z	26.232	60
24	MP1A	Mx	-.01	60
25	MP1B	X	-13.182	0
26	MP1B	Z	22.832	0
27	MP1B	Mx	-.02	0
28	MP1B	X	-13.182	60
29	MP1B	Z	22.832	60
30	MP1B	Mx	-.02	60
31	MP1C	X	-15.667	0
32	MP1C	Z	27.136	0
33	MP1C	Mx	.025	0
34	MP1C	X	-15.667	60
35	MP1C	Z	27.136	60
36	MP1C	Mx	.025	60
37	MP3A	X	-6.816	18
38	MP3A	Z	11.805	18
39	MP3A	Mx	.003	18
40	MP3A	X	-6.816	42
41	MP3A	Z	11.805	42
42	MP3A	Mx	.003	42
43	MP3B	X	-4.533	18
44	MP3B	Z	7.851	18
45	MP3B	Mx	-.004	18
46	MP3B	X	-4.533	42
47	MP3B	Z	7.851	42
48	MP3B	Mx	-.004	42
49	MP3C	X	-7.423	18
50	MP3C	Z	12.857	18
51	MP3C	Mx	.003	18
52	MP3C	X	-7.423	42
53	MP3C	Z	12.857	42
54	MP3C	Mx	.003	42
55	OVP	X	-11.53	12
56	OVP	Z	19.971	12
57	OVP	Mx	0	12
58	MP2A	X	-6.199	24
59	MP2A	Z	10.736	24
60	MP2A	Mx	-.003	24
61	MP2B	X	-5.178	24
62	MP2B	Z	8.969	24

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
63	MP2B	Mx	.004	24
64	MP2C	X	-6.47	24
65	MP2C	Z	11.206	24
66	MP2C	Mx	-.002	24
67	MP1A	X	-6.107	24
68	MP1A	Z	10.577	24
69	MP1A	Mx	-.003	24
70	MP1B	X	-4.903	24
71	MP1B	Z	8.491	24
72	MP1B	Mx	.004	24
73	MP1C	X	-6.427	24
74	MP1C	Z	11.132	24
75	MP1C	Mx	-.002	24
76	MP5A	X	-7.896	18
77	MP5A	Z	13.676	18
78	MP5A	Mx	.004	18
79	MP5A	X	-7.896	42
80	MP5A	Z	13.676	42
81	MP5A	Mx	.004	42
82	MP5B	X	-6.517	18
83	MP5B	Z	11.287	18
84	MP5B	Mx	-.006	18
85	MP5B	X	-6.517	42
86	MP5B	Z	11.287	42
87	MP5B	Mx	-.006	42
88	MP5C	X	-8.263	18
89	MP5C	Z	14.311	18
90	MP5C	Mx	.003	18
91	MP5C	X	-8.263	42
92	MP5C	Z	14.311	42
93	MP5C	Mx	.003	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	-22.832	0
2	MP1A	Z	13.182	0
3	MP1A	Mx	.02	0
4	MP1A	X	-22.832	60
5	MP1A	Z	13.182	60
6	MP1A	Mx	.02	60
7	MP1B	X	-26.232	0
8	MP1B	Z	15.145	0
9	MP1B	Mx	.01	0
10	MP1B	X	-26.232	60
11	MP1B	Z	15.145	60
12	MP1B	Mx	.01	60
13	MP1C	X	-27.726	0
14	MP1C	Z	16.008	0
15	MP1C	Mx	-.024	0
16	MP1C	X	-27.726	60
17	MP1C	Z	16.008	60
18	MP1C	Mx	-.024	60
19	MP1A	X	-22.832	0
20	MP1A	Z	13.182	0
21	MP1A	Mx	.003	0
22	MP1A	X	-22.832	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
23	MP1A	Z	13.182	60
24	MP1A	Mx	.003	60
25	MP1B	X	-26.232	0
26	MP1B	Z	15.145	0
27	MP1B	Mx	-.025	0
28	MP1B	X	-26.232	60
29	MP1B	Z	15.145	60
30	MP1B	Mx	-.025	60
31	MP1C	X	-27.726	0
32	MP1C	Z	16.008	0
33	MP1C	Mx	.018	0
34	MP1C	X	-27.726	60
35	MP1C	Z	16.008	60
36	MP1C	Mx	.018	60
37	MP3A	X	-7.851	18
38	MP3A	Z	4.533	18
39	MP3A	Mx	.004	18
40	MP3A	X	-7.851	42
41	MP3A	Z	4.533	42
42	MP3A	Mx	.004	42
43	MP3B	X	-11.805	18
44	MP3B	Z	6.816	18
45	MP3B	Mx	-.003	18
46	MP3B	X	-11.805	42
47	MP3B	Z	6.816	42
48	MP3B	Mx	-.003	42
49	MP3C	X	-13.544	18
50	MP3C	Z	7.819	18
51	MP3C	Mx	-.001	18
52	MP3C	X	-13.544	42
53	MP3C	Z	7.819	42
54	MP3C	Mx	-.001	42
55	OVP	X	-18.67	12
56	OVP	Z	10.779	12
57	OVP	Mx	0	12
58	MP2A	X	-8.969	24
59	MP2A	Z	5.178	24
60	MP2A	Mx	-.004	24
61	MP2B	X	-10.736	24
62	MP2B	Z	6.199	24
63	MP2B	Mx	.003	24
64	MP2C	X	-11.513	24
65	MP2C	Z	6.647	24
66	MP2C	Mx	.001	24
67	MP1A	X	-8.491	24
68	MP1A	Z	4.903	24
69	MP1A	Mx	-.004	24
70	MP1B	X	-10.577	24
71	MP1B	Z	6.107	24
72	MP1B	Mx	.003	24
73	MP1C	X	-11.494	24
74	MP1C	Z	6.636	24
75	MP1C	Mx	.001	24
76	MP5A	X	-11.287	18
77	MP5A	Z	6.517	18
78	MP5A	Mx	.006	18
79	MP5A	X	-11.287	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
80	MP5A	Z	6.517	42
81	MP5A	Mx	.006	42
82	MP5B	X	-13.676	18
83	MP5B	Z	7.896	18
84	MP5B	Mx	-.004	18
85	MP5B	X	-13.676	42
86	MP5B	Z	7.896	42
87	MP5B	Mx	-.004	42
88	MP5C	X	-14.726	18
89	MP5C	Z	8.502	18
90	MP5C	Mx	-.001	18
91	MP5C	X	-14.726	42
92	MP5C	Z	8.502	42
93	MP5C	Mx	-.001	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	-24.402	0
2	MP1A	Z	0	0
3	MP1A	Mx	.012	0
4	MP1A	X	-24.402	60
5	MP1A	Z	0	60
6	MP1A	Mx	.012	60
7	MP1B	X	-32.252	0
8	MP1B	Z	0	0
9	MP1B	Mx	.022	0
10	MP1B	X	-32.252	60
11	MP1B	Z	0	60
12	MP1B	Mx	.022	60
13	MP1C	X	-29.009	0
14	MP1C	Z	0	0
15	MP1C	Mx	-.024	0
16	MP1C	X	-29.009	60
17	MP1C	Z	0	60
18	MP1C	Mx	-.024	60
19	MP1A	X	-24.402	0
20	MP1A	Z	0	0
21	MP1A	Mx	.012	0
22	MP1A	X	-24.402	60
23	MP1A	Z	0	60
24	MP1A	Mx	.012	60
25	MP1B	X	-32.252	0
26	MP1B	Z	0	0
27	MP1B	Mx	-.022	0
28	MP1B	X	-32.252	60
29	MP1B	Z	0	60
30	MP1B	Mx	-.022	60
31	MP1C	X	-29.009	0
32	MP1C	Z	0	0
33	MP1C	Mx	.005	0
34	MP1C	X	-29.009	60
35	MP1C	Z	0	60
36	MP1C	Mx	.005	60
37	MP3A	X	-6.783	18
38	MP3A	Z	0	18
39	MP3A	Mx	.003	18

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
40	MP3A	X	-6.783	42
41	MP3A	Z	0	42
42	MP3A	Mx	.003	42
43	MP3B	X	-15.914	18
44	MP3B	Z	0	18
45	MP3B	Mx	0	18
46	MP3B	X	-15.914	42
47	MP3B	Z	0	42
48	MP3B	Mx	0	42
49	MP3C	X	-12.141	18
50	MP3C	Z	0	18
51	MP3C	Mx	-.004	18
52	MP3C	X	-12.141	42
53	MP3C	Z	0	42
54	MP3C	Mx	-.004	42
55	OVP	X	-23.06	12
56	OVP	Z	0	12
57	OVP	Mx	0	12
58	MP2A	X	-9.336	24
59	MP2A	Z	0	24
60	MP2A	Mx	-.005	24
61	MP2B	X	-13.417	24
62	MP2B	Z	0	24
63	MP2B	Mx	0	24
64	MP2C	X	-11.731	24
65	MP2C	Z	0	24
66	MP2C	Mx	.004	24
67	MP1A	X	-8.601	24
68	MP1A	Z	0	24
69	MP1A	Mx	-.004	24
70	MP1B	X	-13.417	24
71	MP1B	Z	0	24
72	MP1B	Mx	0	24
73	MP1C	X	-11.427	24
74	MP1C	Z	0	24
75	MP1C	Mx	.004	24
76	MP5A	X	-11.654	18
77	MP5A	Z	0	18
78	MP5A	Mx	.006	18
79	MP5A	X	-11.654	42
80	MP5A	Z	0	42
81	MP5A	Mx	.006	42
82	MP5B	X	-17.171	18
83	MP5B	Z	0	18
84	MP5B	Mx	0	18
85	MP5B	X	-17.171	42
86	MP5B	Z	0	42
87	MP5B	Mx	0	42
88	MP5C	X	-14.891	18
89	MP5C	Z	0	18
90	MP5C	Mx	-.005	18
91	MP5C	X	-14.891	42
92	MP5C	Z	0	42
93	MP5C	Mx	-.005	42

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

Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	-22.832	0
2	MP1A	Z	-13.182	0
3	MP1A	Mx	.003	0
4	MP1A	X	-22.832	60
5	MP1A	Z	-13.182	60
6	MP1A	Mx	.003	60
7	MP1B	X	-26.232	0
8	MP1B	Z	-15.145	0
9	MP1B	Mx	.025	0
10	MP1B	X	-26.232	60
11	MP1B	Z	-15.145	60
12	MP1B	Mx	.025	60
13	MP1C	X	-21.928	0
14	MP1C	Z	-12.66	0
15	MP1C	Mx	-.018	0
16	MP1C	X	-21.928	60
17	MP1C	Z	-12.66	60
18	MP1C	Mx	-.018	60
19	MP1A	X	-22.832	0
20	MP1A	Z	-13.182	0
21	MP1A	Mx	.02	0
22	MP1A	X	-22.832	60
23	MP1A	Z	-13.182	60
24	MP1A	Mx	.02	60
25	MP1B	X	-26.232	0
26	MP1B	Z	-15.145	0
27	MP1B	Mx	-.01	0
28	MP1B	X	-26.232	60
29	MP1B	Z	-15.145	60
30	MP1B	Mx	-.01	60
31	MP1C	X	-21.928	0
32	MP1C	Z	-12.66	0
33	MP1C	Mx	-.006	0
34	MP1C	X	-21.928	60
35	MP1C	Z	-12.66	60
36	MP1C	Mx	-.006	60
37	MP3A	X	-7.851	18
38	MP3A	Z	-4.533	18
39	MP3A	Mx	.004	18
40	MP3A	X	-7.851	42
41	MP3A	Z	-4.533	42
42	MP3A	Mx	.004	42
43	MP3B	X	-11.805	18
44	MP3B	Z	-6.816	18
45	MP3B	Mx	.003	18
46	MP3B	X	-11.805	42
47	MP3B	Z	-6.816	42
48	MP3B	Mx	.003	42
49	MP3C	X	-6.799	18
50	MP3C	Z	-3.925	18
51	MP3C	Mx	-.004	18
52	MP3C	X	-6.799	42
53	MP3C	Z	-3.925	42
54	MP3C	Mx	-.004	42
55	OVP	X	-22.572	12
56	OVP	Z	-13.032	12
57	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP2A	X	-8.969	24
59	MP2A	Z	-5.178	24
60	MP2A	Mx	-.004	24
61	MP2B	X	-10.736	24
62	MP2B	Z	-6.199	24
63	MP2B	Mx	-.003	24
64	MP2C	X	-8.498	24
65	MP2C	Z	-4.907	24
66	MP2C	Mx	.005	24
67	MP1A	X	-8.491	24
68	MP1A	Z	-4.903	24
69	MP1A	Mx	-.004	24
70	MP1B	X	-10.577	24
71	MP1B	Z	-6.107	24
72	MP1B	Mx	-.003	24
73	MP1C	X	-7.937	24
74	MP1C	Z	-4.582	24
75	MP1C	Mx	.004	24
76	MP5A	X	-11.287	18
77	MP5A	Z	-6.517	18
78	MP5A	Mx	.006	18
79	MP5A	X	-11.287	42
80	MP5A	Z	-6.517	42
81	MP5A	Mx	.006	42
82	MP5B	X	-13.676	18
83	MP5B	Z	-7.896	18
84	MP5B	Mx	.004	18
85	MP5B	X	-13.676	42
86	MP5B	Z	-7.896	42
87	MP5B	Mx	.004	42
88	MP5C	X	-10.652	18
89	MP5C	Z	-6.15	18
90	MP5C	Mx	-.006	18
91	MP5C	X	-10.652	42
92	MP5C	Z	-6.15	42
93	MP5C	Mx	-.006	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	-15.145	0
2	MP1A	Z	-26.232	0
3	MP1A	Mx	-.01	0
4	MP1A	X	-15.145	60
5	MP1A	Z	-26.232	60
6	MP1A	Mx	-.01	60
7	MP1B	X	-13.182	0
8	MP1B	Z	-22.832	0
9	MP1B	Mx	.02	0
10	MP1B	X	-13.182	60
11	MP1B	Z	-22.832	60
12	MP1B	Mx	.02	60
13	MP1C	X	-12.319	0
14	MP1C	Z	-21.338	0
15	MP1C	Mx	-.009	0
16	MP1C	X	-12.319	60
17	MP1C	Z	-21.338	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
18	MP1C	Mx	-.009	60
19	MP1A	X	-15.145	0
20	MP1A	Z	-26.232	0
21	MP1A	Mx	.025	0
22	MP1A	X	-15.145	60
23	MP1A	Z	-26.232	60
24	MP1A	Mx	.025	60
25	MP1B	X	-13.182	0
26	MP1B	Z	-22.832	0
27	MP1B	Mx	.003	0
28	MP1B	X	-13.182	60
29	MP1B	Z	-22.832	60
30	MP1B	Mx	.003	60
31	MP1C	X	-12.319	0
32	MP1C	Z	-21.338	0
33	MP1C	Mx	-.015	0
34	MP1C	X	-12.319	60
35	MP1C	Z	-21.338	60
36	MP1C	Mx	-.015	60
37	MP3A	X	-6.816	18
38	MP3A	Z	-11.805	18
39	MP3A	Mx	.003	18
40	MP3A	X	-6.816	42
41	MP3A	Z	-11.805	42
42	MP3A	Mx	.003	42
43	MP3B	X	-4.533	18
44	MP3B	Z	-7.851	18
45	MP3B	Mx	.004	18
46	MP3B	X	-4.533	42
47	MP3B	Z	-7.851	42
48	MP3B	Mx	.004	42
49	MP3C	X	-3.529	18
50	MP3C	Z	-6.112	18
51	MP3C	Mx	-.003	18
52	MP3C	X	-3.529	42
53	MP3C	Z	-6.112	42
54	MP3C	Mx	-.003	42
55	OVP	X	-13.783	12
56	OVP	Z	-23.872	12
57	OVP	Mx	0	12
58	MP2A	X	-6.199	24
59	MP2A	Z	-10.736	24
60	MP2A	Mx	-.003	24
61	MP2B	X	-5.178	24
62	MP2B	Z	-8.969	24
63	MP2B	Mx	-.004	24
64	MP2C	X	-4.729	24
65	MP2C	Z	-8.191	24
66	MP2C	Mx	.005	24
67	MP1A	X	-6.107	24
68	MP1A	Z	-10.577	24
69	MP1A	Mx	-.003	24
70	MP1B	X	-4.903	24
71	MP1B	Z	-8.491	24
72	MP1B	Mx	-.004	24
73	MP1C	X	-4.373	24
74	MP1C	Z	-7.574	24

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
75	MP1C	Mx	.004	24
76	MP5A	X	-7.896	18
77	MP5A	Z	-13.676	18
78	MP5A	Mx	.004	18
79	MP5A	X	-7.896	42
80	MP5A	Z	-13.676	42
81	MP5A	Mx	.004	42
82	MP5B	X	-6.517	18
83	MP5B	Z	-11.287	18
84	MP5B	Mx	.006	18
85	MP5B	X	-6.517	42
86	MP5B	Z	-11.287	42
87	MP5B	Mx	.006	42
88	MP5C	X	-5.91	18
89	MP5C	Z	-10.237	18
90	MP5C	Mx	-.006	18
91	MP5C	X	-5.91	42
92	MP5C	Z	-10.237	42
93	MP5C	Mx	-.006	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	0	0
2	MP1A	Z	-10.642	0
3	MP1A	Mx	-.007	0
4	MP1A	X	0	60
5	MP1A	Z	-10.642	60
6	MP1A	Mx	-.007	60
7	MP1B	X	0	0
8	MP1B	Z	-7.912	0
9	MP1B	Mx	.004	0
10	MP1B	X	0	60
11	MP1B	Z	-7.912	60
12	MP1B	Mx	.004	60
13	MP1C	X	0	0
14	MP1C	Z	-9.04	0
15	MP1C	Mx	.000411	0
16	MP1C	X	0	60
17	MP1C	Z	-9.04	60
18	MP1C	Mx	.000411	60
19	MP1A	X	0	0
20	MP1A	Z	-10.642	0
21	MP1A	Mx	.007	0
22	MP1A	X	0	60
23	MP1A	Z	-10.642	60
24	MP1A	Mx	.007	60
25	MP1B	X	0	0
26	MP1B	Z	-7.912	0
27	MP1B	Mx	.004	0
28	MP1B	X	0	60
29	MP1B	Z	-7.912	60
30	MP1B	Mx	.004	60
31	MP1C	X	0	0
32	MP1C	Z	-9.04	0
33	MP1C	Mx	-.007	0
34	MP1C	X	0	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
35	MP1C	Z	-9.04	60
36	MP1C	Mx	-.007	60
37	MP3A	X	0	18
38	MP3A	Z	-5.067	18
39	MP3A	Mx	0	18
40	MP3A	X	0	42
41	MP3A	Z	-5.067	42
42	MP3A	Mx	0	42
43	MP3B	X	0	18
44	MP3B	Z	-1.984	18
45	MP3B	Mx	.000992	18
46	MP3B	X	0	42
47	MP3B	Z	-1.984	42
48	MP3B	Mx	.000992	42
49	MP3C	X	0	18
50	MP3C	Z	-3.258	18
51	MP3C	Mx	-.001	18
52	MP3C	X	0	42
53	MP3C	Z	-3.258	42
54	MP3C	Mx	-.001	42
55	OVP	X	0	12
56	OVP	Z	-8.236	12
57	OVP	Mx	0	12
58	MP2A	X	0	24
59	MP2A	Z	-4.032	24
60	MP2A	Mx	0	24
61	MP2B	X	0	24
62	MP2B	Z	-2.695	24
63	MP2B	Mx	-.001	24
64	MP2C	X	0	24
65	MP2C	Z	-3.248	24
66	MP2C	Mx	.001	24
67	MP1A	X	0	24
68	MP1A	Z	-4.032	24
69	MP1A	Mx	0	24
70	MP1B	X	0	24
71	MP1B	Z	-2.453	24
72	MP1B	Mx	-.001	24
73	MP1C	X	0	24
74	MP1C	Z	-3.106	24
75	MP1C	Mx	.001	24
76	MP5A	X	0	18
77	MP5A	Z	-5.488	18
78	MP5A	Mx	0	18
79	MP5A	X	0	42
80	MP5A	Z	-5.488	42
81	MP5A	Mx	0	42
82	MP5B	X	0	18
83	MP5B	Z	-3.59	18
84	MP5B	Mx	.002	18
85	MP5B	X	0	42
86	MP5B	Z	-3.59	42
87	MP5B	Mx	.002	42
88	MP5C	X	0	18
89	MP5C	Z	-4.374	18
90	MP5C	Mx	-.002	18
91	MP5C	X	0	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
92	MP5C	Z	-4.374	42
93	MP5C	Mx	-.002	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	4.98	0
2	MP1A	Z	-8.625	0
3	MP1A	Mx	-.008	0
4	MP1A	X	4.98	60
5	MP1A	Z	-8.625	60
6	MP1A	Mx	-.008	60
7	MP1B	X	4.297	0
8	MP1B	Z	-7.443	0
9	MP1B	Mx	.000857	0
10	MP1B	X	4.297	60
11	MP1B	Z	-7.443	60
12	MP1B	Mx	.000857	60
13	MP1C	X	5.161	0
14	MP1C	Z	-8.939	0
15	MP1C	Mx	.005	0
16	MP1C	X	5.161	60
17	MP1C	Z	-8.939	60
18	MP1C	Mx	.005	60
19	MP1A	X	4.98	0
20	MP1A	Z	-8.625	0
21	MP1A	Mx	.003	0
22	MP1A	X	4.98	60
23	MP1A	Z	-8.625	60
24	MP1A	Mx	.003	60
25	MP1B	X	4.297	0
26	MP1B	Z	-7.443	0
27	MP1B	Mx	.007	0
28	MP1B	X	4.297	60
29	MP1B	Z	-7.443	60
30	MP1B	Mx	.007	60
31	MP1C	X	5.161	0
32	MP1C	Z	-8.939	0
33	MP1C	Mx	-.008	0
34	MP1C	X	5.161	60
35	MP1C	Z	-8.939	60
36	MP1C	Mx	-.008	60
37	MP3A	X	2.148	18
38	MP3A	Z	-3.721	18
39	MP3A	Mx	-.001	18
40	MP3A	X	2.148	42
41	MP3A	Z	-3.721	42
42	MP3A	Mx	-.001	42
43	MP3B	X	1.377	18
44	MP3B	Z	-2.386	18
45	MP3B	Mx	.001	18
46	MP3B	X	1.377	42
47	MP3B	Z	-2.386	42
48	MP3B	Mx	.001	42
49	MP3C	X	2.353	18
50	MP3C	Z	-4.076	18
51	MP3C	Mx	-.000805	18

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
52	MP3C	X	2.353	42
53	MP3C	Z	-4.076	42
54	MP3C	Mx	-.000805	42
55	OVP	X	3.599	12
56	OVP	Z	-6.234	12
57	OVP	Mx	0	12
58	MP2A	X	1.849	24
59	MP2A	Z	-3.203	24
60	MP2A	Mx	.000924	24
61	MP2B	X	1.515	24
62	MP2B	Z	-2.624	24
63	MP2B	Mx	-.001	24
64	MP2C	X	1.938	24
65	MP2C	Z	-3.357	24
66	MP2C	Mx	.000663	24
67	MP1A	X	1.819	24
68	MP1A	Z	-3.15	24
69	MP1A	Mx	.000909	24
70	MP1B	X	1.424	24
71	MP1B	Z	-2.466	24
72	MP1B	Mx	-.001	24
73	MP1C	X	1.924	24
74	MP1C	Z	-3.332	24
75	MP1C	Mx	.000658	24
76	MP5A	X	2.507	18
77	MP5A	Z	-4.342	18
78	MP5A	Mx	-.001	18
79	MP5A	X	2.507	42
80	MP5A	Z	-4.342	42
81	MP5A	Mx	-.001	42
82	MP5B	X	2.032	18
83	MP5B	Z	-3.52	18
84	MP5B	Mx	.002	18
85	MP5B	X	2.032	42
86	MP5B	Z	-3.52	42
87	MP5B	Mx	.002	42
88	MP5C	X	2.633	18
89	MP5C	Z	-4.56	18
90	MP5C	Mx	-.0009	18
91	MP5C	X	2.633	42
92	MP5C	Z	-4.56	42
93	MP5C	Mx	-.0009	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	7.443	0
2	MP1A	Z	-4.297	0
3	MP1A	Mx	-.007	0
4	MP1A	X	7.443	60
5	MP1A	Z	-4.297	60
6	MP1A	Mx	-.007	60
7	MP1B	X	8.625	0
8	MP1B	Z	-4.98	0
9	MP1B	Mx	-.003	0
10	MP1B	X	8.625	60
11	MP1B	Z	-4.98	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
12	MP1B	Mx	-.003	60
13	MP1C	X	9.145	0
14	MP1C	Z	-5.28	0
15	MP1C	Mx	.008	0
16	MP1C	X	9.145	60
17	MP1C	Z	-5.28	60
18	MP1C	Mx	.008	60
19	MP1A	X	7.443	0
20	MP1A	Z	-4.297	0
21	MP1A	Mx	-.000857	0
22	MP1A	X	7.443	60
23	MP1A	Z	-4.297	60
24	MP1A	Mx	-.000857	60
25	MP1B	X	8.625	0
26	MP1B	Z	-4.98	0
27	MP1B	Mx	.008	0
28	MP1B	X	8.625	60
29	MP1B	Z	-4.98	60
30	MP1B	Mx	.008	60
31	MP1C	X	9.145	0
32	MP1C	Z	-5.28	0
33	MP1C	Mx	-.006	0
34	MP1C	X	9.145	60
35	MP1C	Z	-5.28	60
36	MP1C	Mx	-.006	60
37	MP3A	X	2.386	18
38	MP3A	Z	-1.377	18
39	MP3A	Mx	-.001	18
40	MP3A	X	2.386	42
41	MP3A	Z	-1.377	42
42	MP3A	Mx	-.001	42
43	MP3B	X	3.721	18
44	MP3B	Z	-2.148	18
45	MP3B	Mx	.001	18
46	MP3B	X	3.721	42
47	MP3B	Z	-2.148	42
48	MP3B	Mx	.001	42
49	MP3C	X	4.308	18
50	MP3C	Z	-2.487	18
51	MP3C	Mx	.000432	18
52	MP3C	X	4.308	42
53	MP3C	Z	-2.487	42
54	MP3C	Mx	.000432	42
55	OVP	X	5.785	12
56	OVP	Z	-3.34	12
57	OVP	Mx	0	12
58	MP2A	X	2.624	24
59	MP2A	Z	-1.515	24
60	MP2A	Mx	.001	24
61	MP2B	X	3.203	24
62	MP2B	Z	-1.849	24
63	MP2B	Mx	-.000924	24
64	MP2C	X	3.457	24
65	MP2C	Z	-1.996	24
66	MP2C	Mx	-.000347	24
67	MP1A	X	2.466	24
68	MP1A	Z	-1.424	24

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
69	MP1A	Mx	.001	24
70	MP1B	X	3.15	24
71	MP1B	Z	-1.819	24
72	MP1B	Mx	-.000909	24
73	MP1C	X	3.451	24
74	MP1C	Z	-1.992	24
75	MP1C	Mx	-.000346	24
76	MP5A	X	3.52	18
77	MP5A	Z	-2.032	18
78	MP5A	Mx	-.002	18
79	MP5A	X	3.52	42
80	MP5A	Z	-2.032	42
81	MP5A	Mx	-.002	42
82	MP5B	X	4.342	18
83	MP5B	Z	-2.507	18
84	MP5B	Mx	.001	18
85	MP5B	X	4.342	42
86	MP5B	Z	-2.507	42
87	MP5B	Mx	.001	42
88	MP5C	X	4.703	18
89	MP5C	Z	-2.715	18
90	MP5C	Mx	.000472	18
91	MP5C	X	4.703	42
92	MP5C	Z	-2.715	42
93	MP5C	Mx	.000472	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	7.912	0
2	MP1A	Z	0	0
3	MP1A	Mx	-.004	0
4	MP1A	X	7.912	60
5	MP1A	Z	0	60
6	MP1A	Mx	-.004	60
7	MP1B	X	10.642	0
8	MP1B	Z	0	0
9	MP1B	Mx	-.007	0
10	MP1B	X	10.642	60
11	MP1B	Z	0	60
12	MP1B	Mx	-.007	60
13	MP1C	X	9.514	0
14	MP1C	Z	0	0
15	MP1C	Mx	.008	0
16	MP1C	X	9.514	60
17	MP1C	Z	0	60
18	MP1C	Mx	.008	60
19	MP1A	X	7.912	0
20	MP1A	Z	0	0
21	MP1A	Mx	-.004	0
22	MP1A	X	7.912	60
23	MP1A	Z	0	60
24	MP1A	Mx	-.004	60
25	MP1B	X	10.642	0
26	MP1B	Z	0	0
27	MP1B	Mx	.007	0
28	MP1B	X	10.642	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
29	MP1B	Z	0	60
30	MP1B	Mx	.007	60
31	MP1C	X	9.514	0
32	MP1C	Z	0	0
33	MP1C	Mx	-.002	0
34	MP1C	X	9.514	60
35	MP1C	Z	0	60
36	MP1C	Mx	-.002	60
37	MP3A	X	1.984	18
38	MP3A	Z	0	18
39	MP3A	Mx	-.000992	18
40	MP3A	X	1.984	42
41	MP3A	Z	0	42
42	MP3A	Mx	-.000992	42
43	MP3B	X	5.067	18
44	MP3B	Z	0	18
45	MP3B	Mx	0	18
46	MP3B	X	5.067	42
47	MP3B	Z	0	42
48	MP3B	Mx	0	42
49	MP3C	X	3.793	18
50	MP3C	Z	0	18
51	MP3C	Mx	.001	18
52	MP3C	X	3.793	42
53	MP3C	Z	0	42
54	MP3C	Mx	.001	42
55	OVP	X	7.198	12
56	OVP	Z	0	12
57	OVP	Mx	0	12
58	MP2A	X	2.695	24
59	MP2A	Z	0	24
60	MP2A	Mx	.001	24
61	MP2B	X	4.032	24
62	MP2B	Z	0	24
63	MP2B	Mx	0	24
64	MP2C	X	3.48	24
65	MP2C	Z	0	24
66	MP2C	Mx	-.001	24
67	MP1A	X	2.453	24
68	MP1A	Z	0	24
69	MP1A	Mx	.001	24
70	MP1B	X	4.032	24
71	MP1B	Z	0	24
72	MP1B	Mx	0	24
73	MP1C	X	3.38	24
74	MP1C	Z	0	24
75	MP1C	Mx	-.001	24
76	MP5A	X	3.59	18
77	MP5A	Z	0	18
78	MP5A	Mx	-.002	18
79	MP5A	X	3.59	42
80	MP5A	Z	0	42
81	MP5A	Mx	-.002	42
82	MP5B	X	5.488	18
83	MP5B	Z	0	18
84	MP5B	Mx	0	18
85	MP5B	X	5.488	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
86	MP5B	Z	0	42
87	MP5B	Mx	0	42
88	MP5C	X	4.704	18
89	MP5C	Z	0	18
90	MP5C	Mx	.002	18
91	MP5C	X	4.704	42
92	MP5C	Z	0	42
93	MP5C	Mx	.002	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	7.443	0
2	MP1A	Z	4.297	0
3	MP1A	Mx	-.000857	0
4	MP1A	X	7.443	60
5	MP1A	Z	4.297	60
6	MP1A	Mx	-.000857	60
7	MP1B	X	8.625	0
8	MP1B	Z	4.98	0
9	MP1B	Mx	-.008	0
10	MP1B	X	8.625	60
11	MP1B	Z	4.98	60
12	MP1B	Mx	-.008	60
13	MP1C	X	7.128	0
14	MP1C	Z	4.116	0
15	MP1C	Mx	.006	0
16	MP1C	X	7.128	60
17	MP1C	Z	4.116	60
18	MP1C	Mx	.006	60
19	MP1A	X	7.443	0
20	MP1A	Z	4.297	0
21	MP1A	Mx	-.007	0
22	MP1A	X	7.443	60
23	MP1A	Z	4.297	60
24	MP1A	Mx	-.007	60
25	MP1B	X	8.625	0
26	MP1B	Z	4.98	0
27	MP1B	Mx	.003	0
28	MP1B	X	8.625	60
29	MP1B	Z	4.98	60
30	MP1B	Mx	.003	60
31	MP1C	X	7.128	0
32	MP1C	Z	4.116	0
33	MP1C	Mx	.002	0
34	MP1C	X	7.128	60
35	MP1C	Z	4.116	60
36	MP1C	Mx	.002	60
37	MP3A	X	2.386	18
38	MP3A	Z	1.377	18
39	MP3A	Mx	-.001	18
40	MP3A	X	2.386	42
41	MP3A	Z	1.377	42
42	MP3A	Mx	-.001	42
43	MP3B	X	3.721	18
44	MP3B	Z	2.148	18
45	MP3B	Mx	-.001	18

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
46	MP3B	X	3.721	42
47	MP3B	Z	2.148	42
48	MP3B	Mx	-.001	42
49	MP3C	X	2.03	18
50	MP3C	Z	1.172	18
51	MP3C	Mx	.001	18
52	MP3C	X	2.03	42
53	MP3C	Z	1.172	42
54	MP3C	Mx	.001	42
55	OVP	X	7.133	12
56	OVP	Z	4.118	12
57	OVP	Mx	0	12
58	MP2A	X	2.624	24
59	MP2A	Z	1.515	24
60	MP2A	Mx	.001	24
61	MP2B	X	3.203	24
62	MP2B	Z	1.849	24
63	MP2B	Mx	.000924	24
64	MP2C	X	2.47	24
65	MP2C	Z	1.426	24
66	MP2C	Mx	-.001	24
67	MP1A	X	2.466	24
68	MP1A	Z	1.424	24
69	MP1A	Mx	.001	24
70	MP1B	X	3.15	24
71	MP1B	Z	1.819	24
72	MP1B	Mx	.000909	24
73	MP1C	X	2.284	24
74	MP1C	Z	1.319	24
75	MP1C	Mx	-.001	24
76	MP5A	X	3.52	18
77	MP5A	Z	2.032	18
78	MP5A	Mx	-.002	18
79	MP5A	X	3.52	42
80	MP5A	Z	2.032	42
81	MP5A	Mx	-.002	42
82	MP5B	X	4.342	18
83	MP5B	Z	2.507	18
84	MP5B	Mx	-.001	18
85	MP5B	X	4.342	42
86	MP5B	Z	2.507	42
87	MP5B	Mx	-.001	42
88	MP5C	X	3.301	18
89	MP5C	Z	1.906	18
90	MP5C	Mx	.002	18
91	MP5C	X	3.301	42
92	MP5C	Z	1.906	42
93	MP5C	Mx	.002	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	4.98	0
2	MP1A	Z	8.625	0
3	MP1A	Mx	.003	0
4	MP1A	X	4.98	60
5	MP1A	Z	8.625	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
6	MP1A	Mx	.003	60
7	MP1B	X	4.297	0
8	MP1B	Z	7.443	0
9	MP1B	Mx	-.007	0
10	MP1B	X	4.297	60
11	MP1B	Z	7.443	60
12	MP1B	Mx	-.007	60
13	MP1C	X	3.997	0
14	MP1C	Z	6.923	0
15	MP1C	Mx	.003	0
16	MP1C	X	3.997	60
17	MP1C	Z	6.923	60
18	MP1C	Mx	.003	60
19	MP1A	X	4.98	0
20	MP1A	Z	8.625	0
21	MP1A	Mx	-.008	0
22	MP1A	X	4.98	60
23	MP1A	Z	8.625	60
24	MP1A	Mx	-.008	60
25	MP1B	X	4.297	0
26	MP1B	Z	7.443	0
27	MP1B	Mx	-.000857	0
28	MP1B	X	4.297	60
29	MP1B	Z	7.443	60
30	MP1B	Mx	-.000857	60
31	MP1C	X	3.997	0
32	MP1C	Z	6.923	0
33	MP1C	Mx	.005	0
34	MP1C	X	3.997	60
35	MP1C	Z	6.923	60
36	MP1C	Mx	.005	60
37	MP3A	X	2.148	18
38	MP3A	Z	3.721	18
39	MP3A	Mx	-.001	18
40	MP3A	X	2.148	42
41	MP3A	Z	3.721	42
42	MP3A	Mx	-.001	42
43	MP3B	X	1.377	18
44	MP3B	Z	2.386	18
45	MP3B	Mx	-.001	18
46	MP3B	X	1.377	42
47	MP3B	Z	2.386	42
48	MP3B	Mx	-.001	42
49	MP3C	X	1.038	18
50	MP3C	Z	1.799	18
51	MP3C	Mx	.001	18
52	MP3C	X	1.038	42
53	MP3C	Z	1.799	42
54	MP3C	Mx	.001	42
55	OVP	X	4.377	12
56	OVP	Z	7.582	12
57	OVP	Mx	0	12
58	MP2A	X	1.849	24
59	MP2A	Z	3.203	24
60	MP2A	Mx	.000924	24
61	MP2B	X	1.515	24
62	MP2B	Z	2.624	24

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
63	MP2B	Mx	.001	24
64	MP2C	X	1.368	24
65	MP2C	Z	2.369	24
66	MP2C	Mx	-.001	24
67	MP1A	X	1.819	24
68	MP1A	Z	3.15	24
69	MP1A	Mx	.000909	24
70	MP1B	X	1.424	24
71	MP1B	Z	2.466	24
72	MP1B	Mx	.001	24
73	MP1C	X	1.25	24
74	MP1C	Z	2.165	24
75	MP1C	Mx	-.001	24
76	MP5A	X	2.507	18
77	MP5A	Z	4.342	18
78	MP5A	Mx	-.001	18
79	MP5A	X	2.507	42
80	MP5A	Z	4.342	42
81	MP5A	Mx	-.001	42
82	MP5B	X	2.032	18
83	MP5B	Z	3.52	18
84	MP5B	Mx	-.002	18
85	MP5B	X	2.032	42
86	MP5B	Z	3.52	42
87	MP5B	Mx	-.002	42
88	MP5C	X	1.824	18
89	MP5C	Z	3.159	18
90	MP5C	Mx	.002	18
91	MP5C	X	1.824	42
92	MP5C	Z	3.159	42
93	MP5C	Mx	.002	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	0	0
2	MP1A	Z	10.642	0
3	MP1A	Mx	.007	0
4	MP1A	X	0	60
5	MP1A	Z	10.642	60
6	MP1A	Mx	.007	60
7	MP1B	X	0	0
8	MP1B	Z	7.912	0
9	MP1B	Mx	-.004	0
10	MP1B	X	0	60
11	MP1B	Z	7.912	60
12	MP1B	Mx	-.004	60
13	MP1C	X	0	0
14	MP1C	Z	9.04	0
15	MP1C	Mx	-.000411	0
16	MP1C	X	0	60
17	MP1C	Z	9.04	60
18	MP1C	Mx	-.000411	60
19	MP1A	X	0	0
20	MP1A	Z	10.642	0
21	MP1A	Mx	-.007	0
22	MP1A	X	0	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
23	MP1A	Z	10.642	60
24	MP1A	Mx	-.007	60
25	MP1B	X	0	0
26	MP1B	Z	7.912	0
27	MP1B	Mx	-.004	0
28	MP1B	X	0	60
29	MP1B	Z	7.912	60
30	MP1B	Mx	-.004	60
31	MP1C	X	0	0
32	MP1C	Z	9.04	0
33	MP1C	Mx	.007	0
34	MP1C	X	0	60
35	MP1C	Z	9.04	60
36	MP1C	Mx	.007	60
37	MP3A	X	0	18
38	MP3A	Z	5.067	18
39	MP3A	Mx	0	18
40	MP3A	X	0	42
41	MP3A	Z	5.067	42
42	MP3A	Mx	0	42
43	MP3B	X	0	18
44	MP3B	Z	1.984	18
45	MP3B	Mx	-.000992	18
46	MP3B	X	0	42
47	MP3B	Z	1.984	42
48	MP3B	Mx	-.000992	42
49	MP3C	X	0	18
50	MP3C	Z	3.258	18
51	MP3C	Mx	.001	18
52	MP3C	X	0	42
53	MP3C	Z	3.258	42
54	MP3C	Mx	.001	42
55	OVP	X	0	12
56	OVP	Z	8.236	12
57	OVP	Mx	0	12
58	MP2A	X	0	24
59	MP2A	Z	4.032	24
60	MP2A	Mx	0	24
61	MP2B	X	0	24
62	MP2B	Z	2.695	24
63	MP2B	Mx	.001	24
64	MP2C	X	0	24
65	MP2C	Z	3.248	24
66	MP2C	Mx	-.001	24
67	MP1A	X	0	24
68	MP1A	Z	4.032	24
69	MP1A	Mx	0	24
70	MP1B	X	0	24
71	MP1B	Z	2.453	24
72	MP1B	Mx	.001	24
73	MP1C	X	0	24
74	MP1C	Z	3.106	24
75	MP1C	Mx	-.001	24
76	MP5A	X	0	18
77	MP5A	Z	5.488	18
78	MP5A	Mx	0	18
79	MP5A	X	0	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
80	MP5A	Z	5.488	42
81	MP5A	Mx	0	42
82	MP5B	X	0	18
83	MP5B	Z	3.59	18
84	MP5B	Mx	-.002	18
85	MP5B	X	0	42
86	MP5B	Z	3.59	42
87	MP5B	Mx	-.002	42
88	MP5C	X	0	18
89	MP5C	Z	4.374	18
90	MP5C	Mx	.002	18
91	MP5C	X	0	42
92	MP5C	Z	4.374	42
93	MP5C	Mx	.002	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	-4.98	0
2	MP1A	Z	8.625	0
3	MP1A	Mx	.008	0
4	MP1A	X	-4.98	60
5	MP1A	Z	8.625	60
6	MP1A	Mx	.008	60
7	MP1B	X	-4.297	0
8	MP1B	Z	7.443	0
9	MP1B	Mx	-.000857	0
10	MP1B	X	-4.297	60
11	MP1B	Z	7.443	60
12	MP1B	Mx	-.000857	60
13	MP1C	X	-5.161	0
14	MP1C	Z	8.939	0
15	MP1C	Mx	-.005	0
16	MP1C	X	-5.161	60
17	MP1C	Z	8.939	60
18	MP1C	Mx	-.005	60
19	MP1A	X	-4.98	0
20	MP1A	Z	8.625	0
21	MP1A	Mx	-.003	0
22	MP1A	X	-4.98	60
23	MP1A	Z	8.625	60
24	MP1A	Mx	-.003	60
25	MP1B	X	-4.297	0
26	MP1B	Z	7.443	0
27	MP1B	Mx	-.007	0
28	MP1B	X	-4.297	60
29	MP1B	Z	7.443	60
30	MP1B	Mx	-.007	60
31	MP1C	X	-5.161	0
32	MP1C	Z	8.939	0
33	MP1C	Mx	.008	0
34	MP1C	X	-5.161	60
35	MP1C	Z	8.939	60
36	MP1C	Mx	.008	60
37	MP3A	X	-2.148	18
38	MP3A	Z	3.721	18
39	MP3A	Mx	.001	18

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
40	MP3A	X	-2.148	42
41	MP3A	Z	3.721	42
42	MP3A	Mx	.001	42
43	MP3B	X	-1.377	18
44	MP3B	Z	2.386	18
45	MP3B	Mx	-.001	18
46	MP3B	X	-1.377	42
47	MP3B	Z	2.386	42
48	MP3B	Mx	-.001	42
49	MP3C	X	-2.353	18
50	MP3C	Z	4.076	18
51	MP3C	Mx	.000805	18
52	MP3C	X	-2.353	42
53	MP3C	Z	4.076	42
54	MP3C	Mx	.000805	42
55	OVP	X	-3.599	12
56	OVP	Z	6.234	12
57	OVP	Mx	0	12
58	MP2A	X	-1.849	24
59	MP2A	Z	3.203	24
60	MP2A	Mx	-.000924	24
61	MP2B	X	-1.515	24
62	MP2B	Z	2.624	24
63	MP2B	Mx	.001	24
64	MP2C	X	-1.938	24
65	MP2C	Z	3.357	24
66	MP2C	Mx	-.000663	24
67	MP1A	X	-1.819	24
68	MP1A	Z	3.15	24
69	MP1A	Mx	-.000909	24
70	MP1B	X	-1.424	24
71	MP1B	Z	2.466	24
72	MP1B	Mx	.001	24
73	MP1C	X	-1.924	24
74	MP1C	Z	3.332	24
75	MP1C	Mx	-.000658	24
76	MP5A	X	-2.507	18
77	MP5A	Z	4.342	18
78	MP5A	Mx	.001	18
79	MP5A	X	-2.507	42
80	MP5A	Z	4.342	42
81	MP5A	Mx	.001	42
82	MP5B	X	-2.032	18
83	MP5B	Z	3.52	18
84	MP5B	Mx	-.002	18
85	MP5B	X	-2.032	42
86	MP5B	Z	3.52	42
87	MP5B	Mx	-.002	42
88	MP5C	X	-2.633	18
89	MP5C	Z	4.56	18
90	MP5C	Mx	.0009	18
91	MP5C	X	-2.633	42
92	MP5C	Z	4.56	42
93	MP5C	Mx	.0009	42

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

Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	-7.443	0
2	MP1A	Z	4.297	0
3	MP1A	Mx	.007	0
4	MP1A	X	-7.443	60
5	MP1A	Z	4.297	60
6	MP1A	Mx	.007	60
7	MP1B	X	-8.625	0
8	MP1B	Z	4.98	0
9	MP1B	Mx	.003	0
10	MP1B	X	-8.625	60
11	MP1B	Z	4.98	60
12	MP1B	Mx	.003	60
13	MP1C	X	-9.145	0
14	MP1C	Z	5.28	0
15	MP1C	Mx	-.008	0
16	MP1C	X	-9.145	60
17	MP1C	Z	5.28	60
18	MP1C	Mx	-.008	60
19	MP1A	X	-7.443	0
20	MP1A	Z	4.297	0
21	MP1A	Mx	.000857	0
22	MP1A	X	-7.443	60
23	MP1A	Z	4.297	60
24	MP1A	Mx	.000857	60
25	MP1B	X	-8.625	0
26	MP1B	Z	4.98	0
27	MP1B	Mx	-.008	0
28	MP1B	X	-8.625	60
29	MP1B	Z	4.98	60
30	MP1B	Mx	-.008	60
31	MP1C	X	-9.145	0
32	MP1C	Z	5.28	0
33	MP1C	Mx	.006	0
34	MP1C	X	-9.145	60
35	MP1C	Z	5.28	60
36	MP1C	Mx	.006	60
37	MP3A	X	-2.386	18
38	MP3A	Z	1.377	18
39	MP3A	Mx	.001	18
40	MP3A	X	-2.386	42
41	MP3A	Z	1.377	42
42	MP3A	Mx	.001	42
43	MP3B	X	-3.721	18
44	MP3B	Z	2.148	18
45	MP3B	Mx	-.001	18
46	MP3B	X	-3.721	42
47	MP3B	Z	2.148	42
48	MP3B	Mx	-.001	42
49	MP3C	X	-4.308	18
50	MP3C	Z	2.487	18
51	MP3C	Mx	-.000432	18
52	MP3C	X	-4.308	42
53	MP3C	Z	2.487	42
54	MP3C	Mx	-.000432	42
55	OVP	X	-5.785	12
56	OVP	Z	3.34	12
57	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP2A	X	-2.624	24
59	MP2A	Z	1.515	24
60	MP2A	Mx	-.001	24
61	MP2B	X	-3.203	24
62	MP2B	Z	1.849	24
63	MP2B	Mx	.000924	24
64	MP2C	X	-3.457	24
65	MP2C	Z	1.996	24
66	MP2C	Mx	.000347	24
67	MP1A	X	-2.466	24
68	MP1A	Z	1.424	24
69	MP1A	Mx	-.001	24
70	MP1B	X	-3.15	24
71	MP1B	Z	1.819	24
72	MP1B	Mx	.000909	24
73	MP1C	X	-3.451	24
74	MP1C	Z	1.992	24
75	MP1C	Mx	.000346	24
76	MP5A	X	-3.52	18
77	MP5A	Z	2.032	18
78	MP5A	Mx	.002	18
79	MP5A	X	-3.52	42
80	MP5A	Z	2.032	42
81	MP5A	Mx	.002	42
82	MP5B	X	-4.342	18
83	MP5B	Z	2.507	18
84	MP5B	Mx	-.001	18
85	MP5B	X	-4.342	42
86	MP5B	Z	2.507	42
87	MP5B	Mx	-.001	42
88	MP5C	X	-4.703	18
89	MP5C	Z	2.715	18
90	MP5C	Mx	-.000472	18
91	MP5C	X	-4.703	42
92	MP5C	Z	2.715	42
93	MP5C	Mx	-.000472	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	-7.912	0
2	MP1A	Z	0	0
3	MP1A	Mx	.004	0
4	MP1A	X	-7.912	60
5	MP1A	Z	0	60
6	MP1A	Mx	.004	60
7	MP1B	X	-10.642	0
8	MP1B	Z	0	0
9	MP1B	Mx	.007	0
10	MP1B	X	-10.642	60
11	MP1B	Z	0	60
12	MP1B	Mx	.007	60
13	MP1C	X	-9.514	0
14	MP1C	Z	0	0
15	MP1C	Mx	-.008	0
16	MP1C	X	-9.514	60
17	MP1C	Z	0	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
18	MP1C	Mx	-.008	60
19	MP1A	X	-7.912	0
20	MP1A	Z	0	0
21	MP1A	Mx	.004	0
22	MP1A	X	-7.912	60
23	MP1A	Z	0	60
24	MP1A	Mx	.004	60
25	MP1B	X	-10.642	0
26	MP1B	Z	0	0
27	MP1B	Mx	-.007	0
28	MP1B	X	-10.642	60
29	MP1B	Z	0	60
30	MP1B	Mx	-.007	60
31	MP1C	X	-9.514	0
32	MP1C	Z	0	0
33	MP1C	Mx	.002	0
34	MP1C	X	-9.514	60
35	MP1C	Z	0	60
36	MP1C	Mx	.002	60
37	MP3A	X	-1.984	18
38	MP3A	Z	0	18
39	MP3A	Mx	.000992	18
40	MP3A	X	-1.984	42
41	MP3A	Z	0	42
42	MP3A	Mx	.000992	42
43	MP3B	X	-5.067	18
44	MP3B	Z	0	18
45	MP3B	Mx	0	18
46	MP3B	X	-5.067	42
47	MP3B	Z	0	42
48	MP3B	Mx	0	42
49	MP3C	X	-3.793	18
50	MP3C	Z	0	18
51	MP3C	Mx	-.001	18
52	MP3C	X	-3.793	42
53	MP3C	Z	0	42
54	MP3C	Mx	-.001	42
55	OVP	X	-7.198	12
56	OVP	Z	0	12
57	OVP	Mx	0	12
58	MP2A	X	-2.695	24
59	MP2A	Z	0	24
60	MP2A	Mx	-.001	24
61	MP2B	X	-4.032	24
62	MP2B	Z	0	24
63	MP2B	Mx	0	24
64	MP2C	X	-3.48	24
65	MP2C	Z	0	24
66	MP2C	Mx	.001	24
67	MP1A	X	-2.453	24
68	MP1A	Z	0	24
69	MP1A	Mx	-.001	24
70	MP1B	X	-4.032	24
71	MP1B	Z	0	24
72	MP1B	Mx	0	24
73	MP1C	X	-3.38	24
74	MP1C	Z	0	24

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
75	MP1C	Mx	.001	24
76	MP5A	X	-3.59	18
77	MP5A	Z	0	18
78	MP5A	Mx	.002	18
79	MP5A	X	-3.59	42
80	MP5A	Z	0	42
81	MP5A	Mx	.002	42
82	MP5B	X	-5.488	18
83	MP5B	Z	0	18
84	MP5B	Mx	0	18
85	MP5B	X	-5.488	42
86	MP5B	Z	0	42
87	MP5B	Mx	0	42
88	MP5C	X	-4.704	18
89	MP5C	Z	0	18
90	MP5C	Mx	-.002	18
91	MP5C	X	-4.704	42
92	MP5C	Z	0	42
93	MP5C	Mx	-.002	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	-7.443	0
2	MP1A	Z	-4.297	0
3	MP1A	Mx	.000857	0
4	MP1A	X	-7.443	60
5	MP1A	Z	-4.297	60
6	MP1A	Mx	.000857	60
7	MP1B	X	-8.625	0
8	MP1B	Z	-4.98	0
9	MP1B	Mx	.008	0
10	MP1B	X	-8.625	60
11	MP1B	Z	-4.98	60
12	MP1B	Mx	.008	60
13	MP1C	X	-7.128	0
14	MP1C	Z	-4.116	0
15	MP1C	Mx	-.006	0
16	MP1C	X	-7.128	60
17	MP1C	Z	-4.116	60
18	MP1C	Mx	-.006	60
19	MP1A	X	-7.443	0
20	MP1A	Z	-4.297	0
21	MP1A	Mx	.007	0
22	MP1A	X	-7.443	60
23	MP1A	Z	-4.297	60
24	MP1A	Mx	.007	60
25	MP1B	X	-8.625	0
26	MP1B	Z	-4.98	0
27	MP1B	Mx	-.003	0
28	MP1B	X	-8.625	60
29	MP1B	Z	-4.98	60
30	MP1B	Mx	-.003	60
31	MP1C	X	-7.128	0
32	MP1C	Z	-4.116	0
33	MP1C	Mx	-.002	0
34	MP1C	X	-7.128	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
35	MP1C	Z	-4.116	60
36	MP1C	Mx	-.002	60
37	MP3A	X	-2.386	18
38	MP3A	Z	-1.377	18
39	MP3A	Mx	.001	18
40	MP3A	X	-2.386	42
41	MP3A	Z	-1.377	42
42	MP3A	Mx	.001	42
43	MP3B	X	-3.721	18
44	MP3B	Z	-2.148	18
45	MP3B	Mx	.001	18
46	MP3B	X	-3.721	42
47	MP3B	Z	-2.148	42
48	MP3B	Mx	.001	42
49	MP3C	X	-2.03	18
50	MP3C	Z	-1.172	18
51	MP3C	Mx	-.001	18
52	MP3C	X	-2.03	42
53	MP3C	Z	-1.172	42
54	MP3C	Mx	-.001	42
55	OVP	X	-7.133	12
56	OVP	Z	-4.118	12
57	OVP	Mx	0	12
58	MP2A	X	-2.624	24
59	MP2A	Z	-1.515	24
60	MP2A	Mx	-.001	24
61	MP2B	X	-3.203	24
62	MP2B	Z	-1.849	24
63	MP2B	Mx	-.000924	24
64	MP2C	X	-2.47	24
65	MP2C	Z	-1.426	24
66	MP2C	Mx	.001	24
67	MP1A	X	-2.466	24
68	MP1A	Z	-1.424	24
69	MP1A	Mx	-.001	24
70	MP1B	X	-3.15	24
71	MP1B	Z	-1.819	24
72	MP1B	Mx	-.000909	24
73	MP1C	X	-2.284	24
74	MP1C	Z	-1.319	24
75	MP1C	Mx	.001	24
76	MP5A	X	-3.52	18
77	MP5A	Z	-2.032	18
78	MP5A	Mx	.002	18
79	MP5A	X	-3.52	42
80	MP5A	Z	-2.032	42
81	MP5A	Mx	.002	42
82	MP5B	X	-4.342	18
83	MP5B	Z	-2.507	18
84	MP5B	Mx	.001	18
85	MP5B	X	-4.342	42
86	MP5B	Z	-2.507	42
87	MP5B	Mx	.001	42
88	MP5C	X	-3.301	18
89	MP5C	Z	-1.906	18
90	MP5C	Mx	-.002	18
91	MP5C	X	-3.301	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
92	MP5C	Z	-1.906	42
93	MP5C	Mx	-.002	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1A	X	-4.98	0
2	MP1A	Z	-8.625	0
3	MP1A	Mx	-.003	0
4	MP1A	X	-4.98	60
5	MP1A	Z	-8.625	60
6	MP1A	Mx	-.003	60
7	MP1B	X	-4.297	0
8	MP1B	Z	-7.443	0
9	MP1B	Mx	.007	0
10	MP1B	X	-4.297	60
11	MP1B	Z	-7.443	60
12	MP1B	Mx	.007	60
13	MP1C	X	-3.997	0
14	MP1C	Z	-6.923	0
15	MP1C	Mx	-.003	0
16	MP1C	X	-3.997	60
17	MP1C	Z	-6.923	60
18	MP1C	Mx	-.003	60
19	MP1A	X	-4.98	0
20	MP1A	Z	-8.625	0
21	MP1A	Mx	.008	0
22	MP1A	X	-4.98	60
23	MP1A	Z	-8.625	60
24	MP1A	Mx	.008	60
25	MP1B	X	-4.297	0
26	MP1B	Z	-7.443	0
27	MP1B	Mx	.000857	0
28	MP1B	X	-4.297	60
29	MP1B	Z	-7.443	60
30	MP1B	Mx	.000857	60
31	MP1C	X	-3.997	0
32	MP1C	Z	-6.923	0
33	MP1C	Mx	-.005	0
34	MP1C	X	-3.997	60
35	MP1C	Z	-6.923	60
36	MP1C	Mx	-.005	60
37	MP3A	X	-2.148	18
38	MP3A	Z	-3.721	18
39	MP3A	Mx	.001	18
40	MP3A	X	-2.148	42
41	MP3A	Z	-3.721	42
42	MP3A	Mx	.001	42
43	MP3B	X	-1.377	18
44	MP3B	Z	-2.386	18
45	MP3B	Mx	.001	18
46	MP3B	X	-1.377	42
47	MP3B	Z	-2.386	42
48	MP3B	Mx	.001	42
49	MP3C	X	-1.038	18
50	MP3C	Z	-1.799	18
51	MP3C	Mx	-.001	18

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
52	MP3C	X	-1.038	42
53	MP3C	Z	-1.799	42
54	MP3C	Mx	-.001	42
55	OVP	X	-4.377	12
56	OVP	Z	-7.582	12
57	OVP	Mx	0	12
58	MP2A	X	-1.849	24
59	MP2A	Z	-3.203	24
60	MP2A	Mx	-.000924	24
61	MP2B	X	-1.515	24
62	MP2B	Z	-2.624	24
63	MP2B	Mx	-.001	24
64	MP2C	X	-1.368	24
65	MP2C	Z	-2.369	24
66	MP2C	Mx	.001	24
67	MP1A	X	-1.819	24
68	MP1A	Z	-3.15	24
69	MP1A	Mx	-.000909	24
70	MP1B	X	-1.424	24
71	MP1B	Z	-2.466	24
72	MP1B	Mx	-.001	24
73	MP1C	X	-1.25	24
74	MP1C	Z	-2.165	24
75	MP1C	Mx	.001	24
76	MP5A	X	-2.507	18
77	MP5A	Z	-4.342	18
78	MP5A	Mx	.001	18
79	MP5A	X	-2.507	42
80	MP5A	Z	-4.342	42
81	MP5A	Mx	.001	42
82	MP5B	X	-2.032	18
83	MP5B	Z	-3.52	18
84	MP5B	Mx	.002	18
85	MP5B	X	-2.032	42
86	MP5B	Z	-3.52	42
87	MP5B	Mx	.002	42
88	MP5C	X	-1.824	18
89	MP5C	Z	-3.159	18
90	MP5C	Mx	-.002	18
91	MP5C	X	-1.824	42
92	MP5C	Z	-3.159	42
93	MP5C	Mx	-.002	42

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	M82A	Y	-500	%98

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	M82A	Y	-500	%51

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	M82A	Y	-250	0

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	M82A	Y	-250	%50

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	Y	-6.615	-6.615	0	%100
2	M4	Y	-9.676	-9.676	0	%100
3	M10	Y	-9.676	-9.676	0	%100
4	M43	Y	-9.676	-9.676	0	%100
5	M46	Y	-10.192	-10.192	0	%100
6	M51B	Y	-5.662	-5.662	0	%100
7	M52B	Y	-5.662	-5.662	0	%100
8	M76	Y	-10.179	-10.179	0	%100
9	M77	Y	-10.179	-10.179	0	%100
10	M80	Y	-10.192	-10.192	0	%100
11	M84	Y	-10.179	-10.179	0	%100
12	M85	Y	-10.179	-10.179	0	%100
13	M91	Y	-10.192	-10.192	0	%100
14	M52A	Y	-9.676	-9.676	0	%100
15	M53	Y	-9.676	-9.676	0	%100
16	M54	Y	-9.676	-9.676	0	%100
17	M55	Y	-10.192	-10.192	0	%100
18	M58A	Y	-5.662	-5.662	0	%100
19	M59A	Y	-5.662	-5.662	0	%100
20	M63	Y	-10.179	-10.179	0	%100
21	M64	Y	-10.179	-10.179	0	%100
22	M66	Y	-10.192	-10.192	0	%100
23	M68	Y	-10.179	-10.179	0	%100
24	M69	Y	-10.179	-10.179	0	%100
25	M71	Y	-10.192	-10.192	0	%100
26	M76A	Y	-9.676	-9.676	0	%100
27	M77A	Y	-9.676	-9.676	0	%100
28	M78	Y	-9.676	-9.676	0	%100
29	M79A	Y	-10.192	-10.192	0	%100
30	M82	Y	-5.662	-5.662	0	%100
31	M83A	Y	-5.662	-5.662	0	%100
32	M87	Y	-10.179	-10.179	0	%100
33	M88A	Y	-10.179	-10.179	0	%100
34	M90	Y	-10.192	-10.192	0	%100
35	M92A	Y	-10.179	-10.179	0	%100
36	M93	Y	-10.179	-10.179	0	%100
37	M95	Y	-10.192	-10.192	0	%100
38	M82A	Y	-6.615	-6.615	0	%100
39	M91B	Y	-6.615	-6.615	0	%100
40	MP5A	Y	-5.019	-5.019	0	%100
41	MP4A	Y	-5.019	-5.019	0	%100
42	MP3A	Y	-5.019	-5.019	0	%100
43	MP2A	Y	-5.728	-5.728	0	%100
44	MP1A	Y	-5.728	-5.728	0	%100
45	MP5C	Y	-5.019	-5.019	0	%100
46	MP4C	Y	-5.019	-5.019	0	%100
47	MP3C	Y	-5.019	-5.019	0	%100
48	MP2C	Y	-5.728	-5.728	0	%100
49	MP1C	Y	-5.728	-5.728	0	%100
50	MP5B	Y	-5.019	-5.019	0	%100
51	MP4B	Y	-5.019	-5.019	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
52	3	Y	-5.019	-5.019	0	%100
53	MP2B	Y	-5.728	-5.728	0	%100
54	MP1B	Y	-5.728	-5.728	0	%100
55	OVP	Y	-5.019	-5.019	0	%100
56	M108	Y	-5.728	-5.728	0	%100
57	M116	Y	-5.728	-5.728	0	%100
58	M124	Y	-5.728	-5.728	0	%100
59	M132	Y	-7.669	-7.669	0	%100
60	M133	Y	-7.669	-7.669	0	%100
61	M134	Y	-7.669	-7.669	0	%100
62	M139	Y	-2.358	-2.358	0	%100
63	M140	Y	-2.358	-2.358	0	%100
64	MP3B	Y	-5.019	-5.019	0	%100
65	M148	Y	-2.358	-2.358	0	%100
66	M149	Y	-2.358	-2.358	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	-3.381	-3.381	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	-10.304	-10.304	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	-2.906	-2.906	0	%100
7	M43	X	0	0	0	%100
8	M43	Z	-2.906	-2.906	0	%100
9	M46	X	0	0	0	%100
10	M46	Z	-5.797	-5.797	0	%100
11	M51B	X	0	0	0	%100
12	M51B	Z	-12.875	-12.875	0	%100
13	M52B	X	0	0	0	%100
14	M52B	Z	-3.219	-3.219	0	%100
15	M76	X	0	0	0	%100
16	M76	Z	-17.39	-17.39	0	%100
17	M77	X	0	0	0	%100
18	M77	Z	-23.616	-23.616	0	%100
19	M80	X	0	0	0	%100
20	M80	Z	-24.874	-24.874	0	%100
21	M84	X	0	0	0	%100
22	M84	Z	-17.39	-17.39	0	%100
23	M85	X	0	0	0	%100
24	M85	Z	-5.904	-5.904	0	%100
25	M91	X	0	0	0	%100
26	M91	Z	-6.219	-6.219	0	%100
27	M52A	X	0	0	0	%100
28	M52A	Z	0	0	0	%100
29	M53	X	0	0	0	%100
30	M53	Z	-11.625	-11.625	0	%100
31	M54	X	0	0	0	%100
32	M54	Z	-11.625	-11.625	0	%100
33	M55	X	0	0	0	%100
34	M55	Z	-23.187	-23.187	0	%100
35	M58A	X	0	0	0	%100
36	M58A	Z	-3.219	-3.219	0	%100
37	M59A	X	0	0	0	%100
38	M59A	Z	-3.219	-3.219	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
39	M63	X	0	0	0	%100
40	M63	Z	0	0	0	%100
41	M64	X	0	0	0	%100
42	M64	Z	-5.904	-5.904	0	%100
43	M66	X	0	0	0	%100
44	M66	Z	-6.219	-6.219	0	%100
45	M68	X	0	0	0	%100
46	M68	Z	0	0	0	%100
47	M69	X	0	0	0	%100
48	M69	Z	-5.904	-5.904	0	%100
49	M71	X	0	0	0	%100
50	M71	Z	-6.219	-6.219	0	%100
51	M76A	X	0	0	0	%100
52	M76A	Z	-10.304	-10.304	0	%100
53	M77A	X	0	0	0	%100
54	M77A	Z	-2.906	-2.906	0	%100
55	M78	X	0	0	0	%100
56	M78	Z	-2.906	-2.906	0	%100
57	M79A	X	0	0	0	%100
58	M79A	Z	-5.797	-5.797	0	%100
59	M82	X	0	0	0	%100
60	M82	Z	-3.219	-3.219	0	%100
61	M83A	X	0	0	0	%100
62	M83A	Z	-12.875	-12.875	0	%100
63	M87	X	0	0	0	%100
64	M87	Z	-17.39	-17.39	0	%100
65	M88A	X	0	0	0	%100
66	M88A	Z	-5.904	-5.904	0	%100
67	M90	X	0	0	0	%100
68	M90	Z	-6.219	-6.219	0	%100
69	M92A	X	0	0	0	%100
70	M92A	Z	-17.39	-17.39	0	%100
71	M93	X	0	0	0	%100
72	M93	Z	-23.616	-23.616	0	%100
73	M95	X	0	0	0	%100
74	M95	Z	-24.874	-24.874	0	%100
75	M82A	X	0	0	0	%100
76	M82A	Z	-13.526	-13.526	0	%100
77	M91B	X	0	0	0	%100
78	M91B	Z	-3.381	-3.381	0	%100
79	MP5A	X	0	0	0	%100
80	MP5A	Z	-9.178	-9.178	0	%100
81	MP4A	X	0	0	0	%100
82	MP4A	Z	-9.178	-9.178	0	%100
83	MP3A	X	0	0	0	%100
84	MP3A	Z	-9.178	-9.178	0	%100
85	MP2A	X	0	0	0	%100
86	MP2A	Z	-11.11	-11.11	0	%100
87	MP1A	X	0	0	0	%100
88	MP1A	Z	-11.11	-11.11	0	%100
89	MP5C	X	0	0	0	%100
90	MP5C	Z	-9.178	-9.178	0	%100
91	MP4C	X	0	0	0	%100
92	MP4C	Z	-9.178	-9.178	0	%100
93	MP3C	X	0	0	0	%100
94	MP3C	Z	-9.178	-9.178	0	%100
95	MP2C	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
96	MP2C	Z	-11.11	-11.11	0	%100
97	MP1C	X	0	0	0	%100
98	MP1C	Z	-11.11	-11.11	0	%100
99	MP5B	X	0	0	0	%100
100	MP5B	Z	-9.178	-9.178	0	%100
101	MP4B	X	0	0	0	%100
102	MP4B	Z	-9.178	-9.178	0	%100
103	3	X	0	0	0	%100
104	3	Z	-9.178	-9.178	0	%100
105	MP2B	X	0	0	0	%100
106	MP2B	Z	-11.11	-11.11	0	%100
107	MP1B	X	0	0	0	%100
108	MP1B	Z	-11.11	-11.11	0	%100
109	OVP	X	0	0	0	%100
110	OVP	Z	-7.505	-7.505	0	%100
111	M108	X	0	0	0	%100
112	M108	Z	-11.11	-11.11	0	%100
113	M116	X	0	0	0	%100
114	M116	Z	-2.778	-2.778	0	%100
115	M124	X	0	0	0	%100
116	M124	Z	-2.778	-2.778	0	%100
117	M132	X	0	0	0	%100
118	M132	Z	-3.633	-3.633	0	%100
119	M133	X	0	0	0	%100
120	M133	Z	-3.633	-3.633	0	%100
121	M134	X	0	0	0	%100
122	M134	Z	-14.531	-14.531	0	%100
123	M139	X	0	0	0	%100
124	M139	Z	-1.261	-1.261	0	%100
125	M140	X	0	0	0	%100
126	M140	Z	-1.261	-1.261	0	%100
127	MP3B	X	0	0	0	%100
128	MP3B	Z	-9.178	-9.178	0	%100
129	M148	X	0	0	0	%100
130	M148	Z	-1.261	-1.261	0	%100
131	M149	X	0	0	0	%100
132	M149	Z	-1.261	-1.261	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	6.869	6.869	0	%100
4	M4	Z	-11.898	-11.898	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	M43	X	0	0	0	%100
8	M43	Z	0	0	0	%100
9	M46	X	0	0	0	%100
10	M46	Z	0	0	0	%100
11	M51B	X	4.828	4.828	0	%100
12	M51B	Z	-8.363	-8.363	0	%100
13	M52B	X	4.828	4.828	0	%100
14	M52B	Z	-8.363	-8.363	0	%100
15	M76	X	11.593	11.593	0	%100
16	M76	Z	-20.08	-20.08	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
17	M77	X	8.856	8.856	0	%100
18	M77	Z	-15.339	-15.339	0	%100
19	M80	X	9.328	9.328	0	%100
20	M80	Z	-16.156	-16.156	0	%100
21	M84	X	11.593	11.593	0	%100
22	M84	Z	-20.08	-20.08	0	%100
23	M85	X	8.856	8.856	0	%100
24	M85	Z	-15.339	-15.339	0	%100
25	M91	X	9.328	9.328	0	%100
26	M91	Z	-16.156	-16.156	0	%100
27	M52A	X	1.717	1.717	0	%100
28	M52A	Z	-2.974	-2.974	0	%100
29	M53	X	4.359	4.359	0	%100
30	M53	Z	-7.55	-7.55	0	%100
31	M54	X	4.359	4.359	0	%100
32	M54	Z	-7.55	-7.55	0	%100
33	M55	X	8.695	8.695	0	%100
34	M55	Z	-15.06	-15.06	0	%100
35	M58A	X	4.828	4.828	0	%100
36	M58A	Z	-8.363	-8.363	0	%100
37	M59A	X	0	0	0	%100
38	M59A	Z	0	0	0	%100
39	M63	X	2.898	2.898	0	%100
40	M63	Z	-5.02	-5.02	0	%100
41	M64	X	8.856	8.856	0	%100
42	M64	Z	-15.339	-15.339	0	%100
43	M66	X	9.328	9.328	0	%100
44	M66	Z	-16.156	-16.156	0	%100
45	M68	X	2.898	2.898	0	%100
46	M68	Z	-5.02	-5.02	0	%100
47	M69	X	0	0	0	%100
48	M69	Z	0	0	0	%100
49	M71	X	0	0	0	%100
50	M71	Z	0	0	0	%100
51	M76A	X	1.717	1.717	0	%100
52	M76A	Z	-2.974	-2.974	0	%100
53	M77A	X	4.359	4.359	0	%100
54	M77A	Z	-7.55	-7.55	0	%100
55	M78	X	4.359	4.359	0	%100
56	M78	Z	-7.55	-7.55	0	%100
57	M79A	X	8.695	8.695	0	%100
58	M79A	Z	-15.06	-15.06	0	%100
59	M82	X	0	0	0	%100
60	M82	Z	0	0	0	%100
61	M83A	X	4.828	4.828	0	%100
62	M83A	Z	-8.363	-8.363	0	%100
63	M87	X	2.898	2.898	0	%100
64	M87	Z	-5.02	-5.02	0	%100
65	M88A	X	0	0	0	%100
66	M88A	Z	0	0	0	%100
67	M90	X	0	0	0	%100
68	M90	Z	0	0	0	%100
69	M92A	X	2.898	2.898	0	%100
70	M92A	Z	-5.02	-5.02	0	%100
71	M93	X	8.856	8.856	0	%100
72	M93	Z	-15.339	-15.339	0	%100
73	M95	X	9.328	9.328	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
74	M95	Z	-16.156	-16.156	0	%100
75	M82A	X	5.072	5.072	0	%100
76	M82A	Z	-8.785	-8.785	0	%100
77	M91B	X	5.072	5.072	0	%100
78	M91B	Z	-8.785	-8.785	0	%100
79	MP5A	X	4.589	4.589	0	%100
80	MP5A	Z	-7.948	-7.948	0	%100
81	MP4A	X	4.589	4.589	0	%100
82	MP4A	Z	-7.948	-7.948	0	%100
83	MP3A	X	4.589	4.589	0	%100
84	MP3A	Z	-7.948	-7.948	0	%100
85	MP2A	X	5.555	5.555	0	%100
86	MP2A	Z	-9.622	-9.622	0	%100
87	MP1A	X	5.555	5.555	0	%100
88	MP1A	Z	-9.622	-9.622	0	%100
89	MP5C	X	4.589	4.589	0	%100
90	MP5C	Z	-7.948	-7.948	0	%100
91	MP4C	X	4.589	4.589	0	%100
92	MP4C	Z	-7.948	-7.948	0	%100
93	MP3C	X	4.589	4.589	0	%100
94	MP3C	Z	-7.948	-7.948	0	%100
95	MP2C	X	5.555	5.555	0	%100
96	MP2C	Z	-9.622	-9.622	0	%100
97	MP1C	X	5.555	5.555	0	%100
98	MP1C	Z	-9.622	-9.622	0	%100
99	MP5B	X	4.589	4.589	0	%100
100	MP5B	Z	-7.948	-7.948	0	%100
101	MP4B	X	4.589	4.589	0	%100
102	MP4B	Z	-7.948	-7.948	0	%100
103	3	X	4.589	4.589	0	%100
104	3	Z	-7.948	-7.948	0	%100
105	MP2B	X	5.555	5.555	0	%100
106	MP2B	Z	-9.622	-9.622	0	%100
107	MP1B	X	5.555	5.555	0	%100
108	MP1B	Z	-9.622	-9.622	0	%100
109	OVP	X	3.753	3.753	0	%100
110	OVP	Z	-6.5	-6.5	0	%100
111	M108	X	4.166	4.166	0	%100
112	M108	Z	-7.216	-7.216	0	%100
113	M116	X	4.166	4.166	0	%100
114	M116	Z	-7.216	-7.216	0	%100
115	M124	X	0	0	0	%100
116	M124	Z	0	0	0	%100
117	M132	X	0	0	0	%100
118	M132	Z	0	0	0	%100
119	M133	X	5.449	5.449	0	%100
120	M133	Z	-9.438	-9.438	0	%100
121	M134	X	5.449	5.449	0	%100
122	M134	Z	-9.438	-9.438	0	%100
123	M139	X	.841	.841	0	%100
124	M139	Z	-1.456	-1.456	0	%100
125	M140	X	.841	.841	0	%100
126	M140	Z	-1.456	-1.456	0	%100
127	MP3B	X	4.589	4.589	0	%100
128	MP3B	Z	-7.948	-7.948	0	%100
129	M148	X	.841	.841	0	%100
130	M148	Z	-1.456	-1.456	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
131	M149	X	.841	.841	0	%100
132	M149	Z	-1.456	-1.456	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	2.928	2.928	0	%100
2	M1	Z	-1.691	-1.691	0	%100
3	M4	X	8.923	8.923	0	%100
4	M4	Z	-5.152	-5.152	0	%100
5	M10	X	2.517	2.517	0	%100
6	M10	Z	-1.453	-1.453	0	%100
7	M43	X	2.517	2.517	0	%100
8	M43	Z	-1.453	-1.453	0	%100
9	M46	X	5.02	5.02	0	%100
10	M46	Z	-2.898	-2.898	0	%100
11	M51B	X	2.788	2.788	0	%100
12	M51B	Z	-1.609	-1.609	0	%100
13	M52B	X	11.15	11.15	0	%100
14	M52B	Z	-6.438	-6.438	0	%100
15	M76	X	15.06	15.06	0	%100
16	M76	Z	-8.695	-8.695	0	%100
17	M77	X	5.113	5.113	0	%100
18	M77	Z	-2.952	-2.952	0	%100
19	M80	X	5.385	5.385	0	%100
20	M80	Z	-3.109	-3.109	0	%100
21	M84	X	15.06	15.06	0	%100
22	M84	Z	-8.695	-8.695	0	%100
23	M85	X	20.452	20.452	0	%100
24	M85	Z	-11.808	-11.808	0	%100
25	M91	X	21.542	21.542	0	%100
26	M91	Z	-12.437	-12.437	0	%100
27	M52A	X	8.923	8.923	0	%100
28	M52A	Z	-5.152	-5.152	0	%100
29	M53	X	2.517	2.517	0	%100
30	M53	Z	-1.453	-1.453	0	%100
31	M54	X	2.517	2.517	0	%100
32	M54	Z	-1.453	-1.453	0	%100
33	M55	X	5.02	5.02	0	%100
34	M55	Z	-2.898	-2.898	0	%100
35	M58A	X	11.15	11.15	0	%100
36	M58A	Z	-6.438	-6.438	0	%100
37	M59A	X	2.788	2.788	0	%100
38	M59A	Z	-1.609	-1.609	0	%100
39	M63	X	15.06	15.06	0	%100
40	M63	Z	-8.695	-8.695	0	%100
41	M64	X	20.452	20.452	0	%100
42	M64	Z	-11.808	-11.808	0	%100
43	M66	X	21.542	21.542	0	%100
44	M66	Z	-12.437	-12.437	0	%100
45	M68	X	15.06	15.06	0	%100
46	M68	Z	-8.695	-8.695	0	%100
47	M69	X	5.113	5.113	0	%100
48	M69	Z	-2.952	-2.952	0	%100
49	M71	X	5.385	5.385	0	%100
50	M71	Z	-3.109	-3.109	0	%100
51	M76A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
52	M76A	Z	0	0	0	%100
53	M77A	X	10.067	10.067	0	%100
54	M77A	Z	-5.812	-5.812	0	%100
55	M78	X	10.067	10.067	0	%100
56	M78	Z	-5.812	-5.812	0	%100
57	M79A	X	20.08	20.08	0	%100
58	M79A	Z	-11.593	-11.593	0	%100
59	M82	X	2.788	2.788	0	%100
60	M82	Z	-1.609	-1.609	0	%100
61	M83A	X	2.788	2.788	0	%100
62	M83A	Z	-1.609	-1.609	0	%100
63	M87	X	0	0	0	%100
64	M87	Z	0	0	0	%100
65	M88A	X	5.113	5.113	0	%100
66	M88A	Z	-2.952	-2.952	0	%100
67	M90	X	5.385	5.385	0	%100
68	M90	Z	-3.109	-3.109	0	%100
69	M92A	X	0	0	0	%100
70	M92A	Z	0	0	0	%100
71	M93	X	5.113	5.113	0	%100
72	M93	Z	-2.952	-2.952	0	%100
73	M95	X	5.385	5.385	0	%100
74	M95	Z	-3.109	-3.109	0	%100
75	M82A	X	2.928	2.928	0	%100
76	M82A	Z	-1.691	-1.691	0	%100
77	M91B	X	11.714	11.714	0	%100
78	M91B	Z	-6.763	-6.763	0	%100
79	MP5A	X	7.948	7.948	0	%100
80	MP5A	Z	-4.589	-4.589	0	%100
81	MP4A	X	7.948	7.948	0	%100
82	MP4A	Z	-4.589	-4.589	0	%100
83	MP3A	X	7.948	7.948	0	%100
84	MP3A	Z	-4.589	-4.589	0	%100
85	MP2A	X	9.622	9.622	0	%100
86	MP2A	Z	-5.555	-5.555	0	%100
87	MP1A	X	9.622	9.622	0	%100
88	MP1A	Z	-5.555	-5.555	0	%100
89	MP5C	X	7.948	7.948	0	%100
90	MP5C	Z	-4.589	-4.589	0	%100
91	MP4C	X	7.948	7.948	0	%100
92	MP4C	Z	-4.589	-4.589	0	%100
93	MP3C	X	7.948	7.948	0	%100
94	MP3C	Z	-4.589	-4.589	0	%100
95	MP2C	X	9.622	9.622	0	%100
96	MP2C	Z	-5.555	-5.555	0	%100
97	MP1C	X	9.622	9.622	0	%100
98	MP1C	Z	-5.555	-5.555	0	%100
99	MP5B	X	7.948	7.948	0	%100
100	MP5B	Z	-4.589	-4.589	0	%100
101	MP4B	X	7.948	7.948	0	%100
102	MP4B	Z	-4.589	-4.589	0	%100
103	3	X	7.948	7.948	0	%100
104	3	Z	-4.589	-4.589	0	%100
105	MP2B	X	9.622	9.622	0	%100
106	MP2B	Z	-5.555	-5.555	0	%100
107	MP1B	X	9.622	9.622	0	%100
108	MP1B	Z	-5.555	-5.555	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
109	OVP	X	6.5	6.5	0	%100
110	OVP	Z	-3.753	-3.753	0	%100
111	M108	X	2.405	2.405	0	%100
112	M108	Z	-1.389	-1.389	0	%100
113	M116	X	9.622	9.622	0	%100
114	M116	Z	-5.555	-5.555	0	%100
115	M124	X	2.405	2.405	0	%100
116	M124	Z	-1.389	-1.389	0	%100
117	M132	X	3.146	3.146	0	%100
118	M132	Z	-1.816	-1.816	0	%100
119	M133	X	12.584	12.584	0	%100
120	M133	Z	-7.265	-7.265	0	%100
121	M134	X	3.146	3.146	0	%100
122	M134	Z	-1.816	-1.816	0	%100
123	M139	X	1.092	1.092	0	%100
124	M139	Z	-.631	-.631	0	%100
125	M140	X	1.092	1.092	0	%100
126	M140	Z	-.631	-.631	0	%100
127	MP3B	X	7.948	7.948	0	%100
128	MP3B	Z	-4.589	-4.589	0	%100
129	M148	X	1.092	1.092	0	%100
130	M148	Z	-.631	-.631	0	%100
131	M149	X	1.092	1.092	0	%100
132	M149	Z	-.631	-.631	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	10.144	10.144	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	3.435	3.435	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	8.719	8.719	0	%100
6	M10	Z	0	0	0	%100
7	M43	X	8.719	8.719	0	%100
8	M43	Z	0	0	0	%100
9	M46	X	17.39	17.39	0	%100
10	M46	Z	0	0	0	%100
11	M51B	X	0	0	0	%100
12	M51B	Z	0	0	0	%100
13	M52B	X	9.656	9.656	0	%100
14	M52B	Z	0	0	0	%100
15	M76	X	5.797	5.797	0	%100
16	M76	Z	0	0	0	%100
17	M77	X	0	0	0	%100
18	M77	Z	0	0	0	%100
19	M80	X	0	0	0	%100
20	M80	Z	0	0	0	%100
21	M84	X	5.797	5.797	0	%100
22	M84	Z	0	0	0	%100
23	M85	X	17.712	17.712	0	%100
24	M85	Z	0	0	0	%100
25	M91	X	18.656	18.656	0	%100
26	M91	Z	0	0	0	%100
27	M52A	X	13.738	13.738	0	%100
28	M52A	Z	0	0	0	%100
29	M53	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
30	M53	Z	0	0	0	%100
31	M54	X	0	0	0	%100
32	M54	Z	0	0	0	%100
33	M55	X	0	0	0	%100
34	M55	Z	0	0	0	%100
35	M58A	X	9.656	9.656	0	%100
36	M58A	Z	0	0	0	%100
37	M59A	X	9.656	9.656	0	%100
38	M59A	Z	0	0	0	%100
39	M63	X	23.187	23.187	0	%100
40	M63	Z	0	0	0	%100
41	M64	X	17.712	17.712	0	%100
42	M64	Z	0	0	0	%100
43	M66	X	18.656	18.656	0	%100
44	M66	Z	0	0	0	%100
45	M68	X	23.187	23.187	0	%100
46	M68	Z	0	0	0	%100
47	M69	X	17.712	17.712	0	%100
48	M69	Z	0	0	0	%100
49	M71	X	18.656	18.656	0	%100
50	M71	Z	0	0	0	%100
51	M76A	X	3.435	3.435	0	%100
52	M76A	Z	0	0	0	%100
53	M77A	X	8.719	8.719	0	%100
54	M77A	Z	0	0	0	%100
55	M78	X	8.719	8.719	0	%100
56	M78	Z	0	0	0	%100
57	M79A	X	17.39	17.39	0	%100
58	M79A	Z	0	0	0	%100
59	M82	X	9.656	9.656	0	%100
60	M82	Z	0	0	0	%100
61	M83A	X	0	0	0	%100
62	M83A	Z	0	0	0	%100
63	M87	X	5.797	5.797	0	%100
64	M87	Z	0	0	0	%100
65	M88A	X	17.712	17.712	0	%100
66	M88A	Z	0	0	0	%100
67	M90	X	18.656	18.656	0	%100
68	M90	Z	0	0	0	%100
69	M92A	X	5.797	5.797	0	%100
70	M92A	Z	0	0	0	%100
71	M93	X	0	0	0	%100
72	M93	Z	0	0	0	%100
73	M95	X	0	0	0	%100
74	M95	Z	0	0	0	%100
75	M82A	X	0	0	0	%100
76	M82A	Z	0	0	0	%100
77	M91B	X	10.144	10.144	0	%100
78	M91B	Z	0	0	0	%100
79	MP5A	X	9.178	9.178	0	%100
80	MP5A	Z	0	0	0	%100
81	MP4A	X	9.178	9.178	0	%100
82	MP4A	Z	0	0	0	%100
83	MP3A	X	9.178	9.178	0	%100
84	MP3A	Z	0	0	0	%100
85	MP2A	X	11.11	11.11	0	%100
86	MP2A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
87	MP1A	X	11.11	11.11	0	%100
88	MP1A	Z	0	0	0	%100
89	MP5C	X	9.178	9.178	0	%100
90	MP5C	Z	0	0	0	%100
91	MP4C	X	9.178	9.178	0	%100
92	MP4C	Z	0	0	0	%100
93	MP3C	X	9.178	9.178	0	%100
94	MP3C	Z	0	0	0	%100
95	MP2C	X	11.11	11.11	0	%100
96	MP2C	Z	0	0	0	%100
97	MP1C	X	11.11	11.11	0	%100
98	MP1C	Z	0	0	0	%100
99	MP5B	X	9.178	9.178	0	%100
100	MP5B	Z	0	0	0	%100
101	MP4B	X	9.178	9.178	0	%100
102	MP4B	Z	0	0	0	%100
103	3	X	9.178	9.178	0	%100
104	3	Z	0	0	0	%100
105	MP2B	X	11.11	11.11	0	%100
106	MP2B	Z	0	0	0	%100
107	MP1B	X	11.11	11.11	0	%100
108	MP1B	Z	0	0	0	%100
109	OVP	X	7.505	7.505	0	%100
110	OVP	Z	0	0	0	%100
111	M108	X	0	0	0	%100
112	M108	Z	0	0	0	%100
113	M116	X	8.333	8.333	0	%100
114	M116	Z	0	0	0	%100
115	M124	X	8.333	8.333	0	%100
116	M124	Z	0	0	0	%100
117	M132	X	10.898	10.898	0	%100
118	M132	Z	0	0	0	%100
119	M133	X	10.898	10.898	0	%100
120	M133	Z	0	0	0	%100
121	M134	X	0	0	0	%100
122	M134	Z	0	0	0	%100
123	M139	X	.42	.42	0	%100
124	M139	Z	0	0	0	%100
125	M140	X	.42	.42	0	%100
126	M140	Z	0	0	0	%100
127	MP3B	X	9.178	9.178	0	%100
128	MP3B	Z	0	0	0	%100
129	M148	X	.42	.42	0	%100
130	M148	Z	0	0	0	%100
131	M149	X	.42	.42	0	%100
132	M149	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	11.714	11.714	0	%100
2	M1	Z	6.763	6.763	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	10.067	10.067	0	%100
6	M10	Z	5.812	5.812	0	%100
7	M43	X	10.067	10.067	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
8	M43	Z	5.812	5.812	0	%100
9	M46	X	20.08	20.08	0	%100
10	M46	Z	11.593	11.593	0	%100
11	M51B	X	2.788	2.788	0	%100
12	M51B	Z	1.609	1.609	0	%100
13	M52B	X	2.788	2.788	0	%100
14	M52B	Z	1.609	1.609	0	%100
15	M76	X	0	0	0	%100
16	M76	Z	0	0	0	%100
17	M77	X	5.113	5.113	0	%100
18	M77	Z	2.952	2.952	0	%100
19	M80	X	5.385	5.385	0	%100
20	M80	Z	3.109	3.109	0	%100
21	M84	X	0	0	0	%100
22	M84	Z	0	0	0	%100
23	M85	X	5.113	5.113	0	%100
24	M85	Z	2.952	2.952	0	%100
25	M91	X	5.385	5.385	0	%100
26	M91	Z	3.109	3.109	0	%100
27	M52A	X	8.923	8.923	0	%100
28	M52A	Z	5.152	5.152	0	%100
29	M53	X	2.517	2.517	0	%100
30	M53	Z	1.453	1.453	0	%100
31	M54	X	2.517	2.517	0	%100
32	M54	Z	1.453	1.453	0	%100
33	M55	X	5.02	5.02	0	%100
34	M55	Z	2.898	2.898	0	%100
35	M58A	X	2.788	2.788	0	%100
36	M58A	Z	1.609	1.609	0	%100
37	M59A	X	11.15	11.15	0	%100
38	M59A	Z	6.438	6.438	0	%100
39	M63	X	15.06	15.06	0	%100
40	M63	Z	8.695	8.695	0	%100
41	M64	X	5.113	5.113	0	%100
42	M64	Z	2.952	2.952	0	%100
43	M66	X	5.385	5.385	0	%100
44	M66	Z	3.109	3.109	0	%100
45	M68	X	15.06	15.06	0	%100
46	M68	Z	8.695	8.695	0	%100
47	M69	X	20.452	20.452	0	%100
48	M69	Z	11.808	11.808	0	%100
49	M71	X	21.542	21.542	0	%100
50	M71	Z	12.437	12.437	0	%100
51	M76A	X	8.923	8.923	0	%100
52	M76A	Z	5.152	5.152	0	%100
53	M77A	X	2.517	2.517	0	%100
54	M77A	Z	1.453	1.453	0	%100
55	M78	X	2.517	2.517	0	%100
56	M78	Z	1.453	1.453	0	%100
57	M79A	X	5.02	5.02	0	%100
58	M79A	Z	2.898	2.898	0	%100
59	M82	X	11.15	11.15	0	%100
60	M82	Z	6.438	6.438	0	%100
61	M83A	X	2.788	2.788	0	%100
62	M83A	Z	1.609	1.609	0	%100
63	M87	X	15.06	15.06	0	%100
64	M87	Z	8.695	8.695	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
65	M88A	X	20.452	20.452	0	%100
66	M88A	Z	11.808	11.808	0	%100
67	M90	X	21.542	21.542	0	%100
68	M90	Z	12.437	12.437	0	%100
69	M92A	X	15.06	15.06	0	%100
70	M92A	Z	8.695	8.695	0	%100
71	M93	X	5.113	5.113	0	%100
72	M93	Z	2.952	2.952	0	%100
73	M95	X	5.385	5.385	0	%100
74	M95	Z	3.109	3.109	0	%100
75	M82A	X	2.928	2.928	0	%100
76	M82A	Z	1.691	1.691	0	%100
77	M91B	X	2.928	2.928	0	%100
78	M91B	Z	1.691	1.691	0	%100
79	MP5A	X	7.948	7.948	0	%100
80	MP5A	Z	4.589	4.589	0	%100
81	MP4A	X	7.948	7.948	0	%100
82	MP4A	Z	4.589	4.589	0	%100
83	MP3A	X	7.948	7.948	0	%100
84	MP3A	Z	4.589	4.589	0	%100
85	MP2A	X	9.622	9.622	0	%100
86	MP2A	Z	5.555	5.555	0	%100
87	MP1A	X	9.622	9.622	0	%100
88	MP1A	Z	5.555	5.555	0	%100
89	MP5C	X	7.948	7.948	0	%100
90	MP5C	Z	4.589	4.589	0	%100
91	MP4C	X	7.948	7.948	0	%100
92	MP4C	Z	4.589	4.589	0	%100
93	MP3C	X	7.948	7.948	0	%100
94	MP3C	Z	4.589	4.589	0	%100
95	MP2C	X	9.622	9.622	0	%100
96	MP2C	Z	5.555	5.555	0	%100
97	MP1C	X	9.622	9.622	0	%100
98	MP1C	Z	5.555	5.555	0	%100
99	MP5B	X	7.948	7.948	0	%100
100	MP5B	Z	4.589	4.589	0	%100
101	MP4B	X	7.948	7.948	0	%100
102	MP4B	Z	4.589	4.589	0	%100
103	3	X	7.948	7.948	0	%100
104	3	Z	4.589	4.589	0	%100
105	MP2B	X	9.622	9.622	0	%100
106	MP2B	Z	5.555	5.555	0	%100
107	MP1B	X	9.622	9.622	0	%100
108	MP1B	Z	5.555	5.555	0	%100
109	OVP	X	6.5	6.5	0	%100
110	OVP	Z	3.753	3.753	0	%100
111	M108	X	2.405	2.405	0	%100
112	M108	Z	1.389	1.389	0	%100
113	M116	X	2.405	2.405	0	%100
114	M116	Z	1.389	1.389	0	%100
115	M124	X	9.622	9.622	0	%100
116	M124	Z	5.555	5.555	0	%100
117	M132	X	12.584	12.584	0	%100
118	M132	Z	7.265	7.265	0	%100
119	M133	X	3.146	3.146	0	%100
120	M133	Z	1.816	1.816	0	%100
121	M134	X	3.146	3.146	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
122	M134	Z	1.816	1.816	0	%100
123	M139	X	0	0	0	%100
124	M139	Z	0	0	0	%100
125	M140	X	0	0	0	%100
126	M140	Z	0	0	0	%100
127	MP3B	X	7.948	7.948	0	%100
128	MP3B	Z	4.589	4.589	0	%100
129	M148	X	0	0	0	%100
130	M148	Z	0	0	0	%100
131	M149	X	0	0	0	%100
132	M149	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	5.072	5.072	0	%100
2	M1	Z	8.785	8.785	0	%100
3	M4	X	1.717	1.717	0	%100
4	M4	Z	2.974	2.974	0	%100
5	M10	X	4.359	4.359	0	%100
6	M10	Z	7.55	7.55	0	%100
7	M43	X	4.359	4.359	0	%100
8	M43	Z	7.55	7.55	0	%100
9	M46	X	8.695	8.695	0	%100
10	M46	Z	15.06	15.06	0	%100
11	M51B	X	4.828	4.828	0	%100
12	M51B	Z	8.363	8.363	0	%100
13	M52B	X	0	0	0	%100
14	M52B	Z	0	0	0	%100
15	M76	X	2.898	2.898	0	%100
16	M76	Z	5.02	5.02	0	%100
17	M77	X	8.856	8.856	0	%100
18	M77	Z	15.339	15.339	0	%100
19	M80	X	9.328	9.328	0	%100
20	M80	Z	16.156	16.156	0	%100
21	M84	X	2.898	2.898	0	%100
22	M84	Z	5.02	5.02	0	%100
23	M85	X	0	0	0	%100
24	M85	Z	0	0	0	%100
25	M91	X	0	0	0	%100
26	M91	Z	0	0	0	%100
27	M52A	X	1.717	1.717	0	%100
28	M52A	Z	2.974	2.974	0	%100
29	M53	X	4.359	4.359	0	%100
30	M53	Z	7.55	7.55	0	%100
31	M54	X	4.359	4.359	0	%100
32	M54	Z	7.55	7.55	0	%100
33	M55	X	8.695	8.695	0	%100
34	M55	Z	15.06	15.06	0	%100
35	M58A	X	0	0	0	%100
36	M58A	Z	0	0	0	%100
37	M59A	X	4.828	4.828	0	%100
38	M59A	Z	8.363	8.363	0	%100
39	M63	X	2.898	2.898	0	%100
40	M63	Z	5.02	5.02	0	%100
41	M64	X	0	0	0	%100
42	M64	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
43	M66	X	0	0	0	%100
44	M66	Z	0	0	0	%100
45	M68	X	2.898	2.898	0	%100
46	M68	Z	5.02	5.02	0	%100
47	M69	X	8.856	8.856	0	%100
48	M69	Z	15.339	15.339	0	%100
49	M71	X	9.328	9.328	0	%100
50	M71	Z	16.156	16.156	0	%100
51	M76A	X	6.869	6.869	0	%100
52	M76A	Z	11.898	11.898	0	%100
53	M77A	X	0	0	0	%100
54	M77A	Z	0	0	0	%100
55	M78	X	0	0	0	%100
56	M78	Z	0	0	0	%100
57	M79A	X	0	0	0	%100
58	M79A	Z	0	0	0	%100
59	M82	X	4.828	4.828	0	%100
60	M82	Z	8.363	8.363	0	%100
61	M83A	X	4.828	4.828	0	%100
62	M83A	Z	8.363	8.363	0	%100
63	M87	X	11.593	11.593	0	%100
64	M87	Z	20.08	20.08	0	%100
65	M88A	X	8.856	8.856	0	%100
66	M88A	Z	15.339	15.339	0	%100
67	M90	X	9.328	9.328	0	%100
68	M90	Z	16.156	16.156	0	%100
69	M92A	X	11.593	11.593	0	%100
70	M92A	Z	20.08	20.08	0	%100
71	M93	X	8.856	8.856	0	%100
72	M93	Z	15.339	15.339	0	%100
73	M95	X	9.328	9.328	0	%100
74	M95	Z	16.156	16.156	0	%100
75	M82A	X	5.072	5.072	0	%100
76	M82A	Z	8.785	8.785	0	%100
77	M91B	X	0	0	0	%100
78	M91B	Z	0	0	0	%100
79	MP5A	X	4.589	4.589	0	%100
80	MP5A	Z	7.948	7.948	0	%100
81	MP4A	X	4.589	4.589	0	%100
82	MP4A	Z	7.948	7.948	0	%100
83	MP3A	X	4.589	4.589	0	%100
84	MP3A	Z	7.948	7.948	0	%100
85	MP2A	X	5.555	5.555	0	%100
86	MP2A	Z	9.622	9.622	0	%100
87	MP1A	X	5.555	5.555	0	%100
88	MP1A	Z	9.622	9.622	0	%100
89	MP5C	X	4.589	4.589	0	%100
90	MP5C	Z	7.948	7.948	0	%100
91	MP4C	X	4.589	4.589	0	%100
92	MP4C	Z	7.948	7.948	0	%100
93	MP3C	X	4.589	4.589	0	%100
94	MP3C	Z	7.948	7.948	0	%100
95	MP2C	X	5.555	5.555	0	%100
96	MP2C	Z	9.622	9.622	0	%100
97	MP1C	X	5.555	5.555	0	%100
98	MP1C	Z	9.622	9.622	0	%100
99	MP5B	X	4.589	4.589	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
100	MP5B	Z	7.948	7.948	0	%100
101	MP4B	X	4.589	4.589	0	%100
102	MP4B	Z	7.948	7.948	0	%100
103	3	X	4.589	4.589	0	%100
104	3	Z	7.948	7.948	0	%100
105	MP2B	X	5.555	5.555	0	%100
106	MP2B	Z	9.622	9.622	0	%100
107	MP1B	X	5.555	5.555	0	%100
108	MP1B	Z	9.622	9.622	0	%100
109	OVP	X	3.753	3.753	0	%100
110	OVP	Z	6.5	6.5	0	%100
111	M108	X	4.166	4.166	0	%100
112	M108	Z	7.216	7.216	0	%100
113	M116	X	0	0	0	%100
114	M116	Z	0	0	0	%100
115	M124	X	4.166	4.166	0	%100
116	M124	Z	7.216	7.216	0	%100
117	M132	X	5.449	5.449	0	%100
118	M132	Z	9.438	9.438	0	%100
119	M133	X	0	0	0	%100
120	M133	Z	0	0	0	%100
121	M134	X	5.449	5.449	0	%100
122	M134	Z	9.438	9.438	0	%100
123	M139	X	.21	.21	0	%100
124	M139	Z	.364	.364	0	%100
125	M140	X	.21	.21	0	%100
126	M140	Z	.364	.364	0	%100
127	MP3B	X	4.589	4.589	0	%100
128	MP3B	Z	7.948	7.948	0	%100
129	M148	X	.21	.21	0	%100
130	M148	Z	.364	.364	0	%100
131	M149	X	.21	.21	0	%100
132	M149	Z	.364	.364	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	3.381	3.381	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	10.304	10.304	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	2.906	2.906	0	%100
7	M43	X	0	0	0	%100
8	M43	Z	2.906	2.906	0	%100
9	M46	X	0	0	0	%100
10	M46	Z	5.797	5.797	0	%100
11	M51B	X	0	0	0	%100
12	M51B	Z	12.875	12.875	0	%100
13	M52B	X	0	0	0	%100
14	M52B	Z	3.219	3.219	0	%100
15	M76	X	0	0	0	%100
16	M76	Z	17.39	17.39	0	%100
17	M77	X	0	0	0	%100
18	M77	Z	23.616	23.616	0	%100
19	M80	X	0	0	0	%100
20	M80	Z	24.874	24.874	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
21	M84	X	0	0	0	%100
22	M84	Z	17.39	17.39	0	%100
23	M85	X	0	0	0	%100
24	M85	Z	5.904	5.904	0	%100
25	M91	X	0	0	0	%100
26	M91	Z	6.219	6.219	0	%100
27	M52A	X	0	0	0	%100
28	M52A	Z	0	0	0	%100
29	M53	X	0	0	0	%100
30	M53	Z	11.625	11.625	0	%100
31	M54	X	0	0	0	%100
32	M54	Z	11.625	11.625	0	%100
33	M55	X	0	0	0	%100
34	M55	Z	23.187	23.187	0	%100
35	M58A	X	0	0	0	%100
36	M58A	Z	3.219	3.219	0	%100
37	M59A	X	0	0	0	%100
38	M59A	Z	3.219	3.219	0	%100
39	M63	X	0	0	0	%100
40	M63	Z	0	0	0	%100
41	M64	X	0	0	0	%100
42	M64	Z	5.904	5.904	0	%100
43	M66	X	0	0	0	%100
44	M66	Z	6.219	6.219	0	%100
45	M68	X	0	0	0	%100
46	M68	Z	0	0	0	%100
47	M69	X	0	0	0	%100
48	M69	Z	5.904	5.904	0	%100
49	M71	X	0	0	0	%100
50	M71	Z	6.219	6.219	0	%100
51	M76A	X	0	0	0	%100
52	M76A	Z	10.304	10.304	0	%100
53	M77A	X	0	0	0	%100
54	M77A	Z	2.906	2.906	0	%100
55	M78	X	0	0	0	%100
56	M78	Z	2.906	2.906	0	%100
57	M79A	X	0	0	0	%100
58	M79A	Z	5.797	5.797	0	%100
59	M82	X	0	0	0	%100
60	M82	Z	3.219	3.219	0	%100
61	M83A	X	0	0	0	%100
62	M83A	Z	12.875	12.875	0	%100
63	M87	X	0	0	0	%100
64	M87	Z	17.39	17.39	0	%100
65	M88A	X	0	0	0	%100
66	M88A	Z	5.904	5.904	0	%100
67	M90	X	0	0	0	%100
68	M90	Z	6.219	6.219	0	%100
69	M92A	X	0	0	0	%100
70	M92A	Z	17.39	17.39	0	%100
71	M93	X	0	0	0	%100
72	M93	Z	23.616	23.616	0	%100
73	M95	X	0	0	0	%100
74	M95	Z	24.874	24.874	0	%100
75	M82A	X	0	0	0	%100
76	M82A	Z	13.526	13.526	0	%100
77	M91B	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
78	M91B	Z	3.381	3.381	0	%100
79	MP5A	X	0	0	0	%100
80	MP5A	Z	9.178	9.178	0	%100
81	MP4A	X	0	0	0	%100
82	MP4A	Z	9.178	9.178	0	%100
83	MP3A	X	0	0	0	%100
84	MP3A	Z	9.178	9.178	0	%100
85	MP2A	X	0	0	0	%100
86	MP2A	Z	11.11	11.11	0	%100
87	MP1A	X	0	0	0	%100
88	MP1A	Z	11.11	11.11	0	%100
89	MP5C	X	0	0	0	%100
90	MP5C	Z	9.178	9.178	0	%100
91	MP4C	X	0	0	0	%100
92	MP4C	Z	9.178	9.178	0	%100
93	MP3C	X	0	0	0	%100
94	MP3C	Z	9.178	9.178	0	%100
95	MP2C	X	0	0	0	%100
96	MP2C	Z	11.11	11.11	0	%100
97	MP1C	X	0	0	0	%100
98	MP1C	Z	11.11	11.11	0	%100
99	MP5B	X	0	0	0	%100
100	MP5B	Z	9.178	9.178	0	%100
101	MP4B	X	0	0	0	%100
102	MP4B	Z	9.178	9.178	0	%100
103	3	X	0	0	0	%100
104	3	Z	9.178	9.178	0	%100
105	MP2B	X	0	0	0	%100
106	MP2B	Z	11.11	11.11	0	%100
107	MP1B	X	0	0	0	%100
108	MP1B	Z	11.11	11.11	0	%100
109	OVP	X	0	0	0	%100
110	OVP	Z	7.505	7.505	0	%100
111	M108	X	0	0	0	%100
112	M108	Z	11.11	11.11	0	%100
113	M116	X	0	0	0	%100
114	M116	Z	2.778	2.778	0	%100
115	M124	X	0	0	0	%100
116	M124	Z	2.778	2.778	0	%100
117	M132	X	0	0	0	%100
118	M132	Z	3.633	3.633	0	%100
119	M133	X	0	0	0	%100
120	M133	Z	3.633	3.633	0	%100
121	M134	X	0	0	0	%100
122	M134	Z	14.531	14.531	0	%100
123	M139	X	0	0	0	%100
124	M139	Z	1.261	1.261	0	%100
125	M140	X	0	0	0	%100
126	M140	Z	1.261	1.261	0	%100
127	MP3B	X	0	0	0	%100
128	MP3B	Z	9.178	9.178	0	%100
129	M148	X	0	0	0	%100
130	M148	Z	1.261	1.261	0	%100
131	M149	X	0	0	0	%100
132	M149	Z	1.261	1.261	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	-6.869	-6.869	0	%100
4	M4	Z	11.898	11.898	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	M43	X	0	0	0	%100
8	M43	Z	0	0	0	%100
9	M46	X	0	0	0	%100
10	M46	Z	0	0	0	%100
11	M51B	X	-4.828	-4.828	0	%100
12	M51B	Z	8.363	8.363	0	%100
13	M52B	X	-4.828	-4.828	0	%100
14	M52B	Z	8.363	8.363	0	%100
15	M76	X	-11.593	-11.593	0	%100
16	M76	Z	20.08	20.08	0	%100
17	M77	X	-8.856	-8.856	0	%100
18	M77	Z	15.339	15.339	0	%100
19	M80	X	-9.328	-9.328	0	%100
20	M80	Z	16.156	16.156	0	%100
21	M84	X	-11.593	-11.593	0	%100
22	M84	Z	20.08	20.08	0	%100
23	M85	X	-8.856	-8.856	0	%100
24	M85	Z	15.339	15.339	0	%100
25	M91	X	-9.328	-9.328	0	%100
26	M91	Z	16.156	16.156	0	%100
27	M52A	X	-1.717	-1.717	0	%100
28	M52A	Z	2.974	2.974	0	%100
29	M53	X	-4.359	-4.359	0	%100
30	M53	Z	7.55	7.55	0	%100
31	M54	X	-4.359	-4.359	0	%100
32	M54	Z	7.55	7.55	0	%100
33	M55	X	-8.695	-8.695	0	%100
34	M55	Z	15.06	15.06	0	%100
35	M58A	X	-4.828	-4.828	0	%100
36	M58A	Z	8.363	8.363	0	%100
37	M59A	X	0	0	0	%100
38	M59A	Z	0	0	0	%100
39	M63	X	-2.898	-2.898	0	%100
40	M63	Z	5.02	5.02	0	%100
41	M64	X	-8.856	-8.856	0	%100
42	M64	Z	15.339	15.339	0	%100
43	M66	X	-9.328	-9.328	0	%100
44	M66	Z	16.156	16.156	0	%100
45	M68	X	-2.898	-2.898	0	%100
46	M68	Z	5.02	5.02	0	%100
47	M69	X	0	0	0	%100
48	M69	Z	0	0	0	%100
49	M71	X	0	0	0	%100
50	M71	Z	0	0	0	%100
51	M76A	X	-1.717	-1.717	0	%100
52	M76A	Z	2.974	2.974	0	%100
53	M77A	X	-4.359	-4.359	0	%100
54	M77A	Z	7.55	7.55	0	%100
55	M78	X	-4.359	-4.359	0	%100
56	M78	Z	7.55	7.55	0	%100
57	M79A	X	-8.695	-8.695	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
58	M79A	Z	15.06	15.06	0	%100
59	M82	X	0	0	0	%100
60	M82	Z	0	0	0	%100
61	M83A	X	-4.828	-4.828	0	%100
62	M83A	Z	8.363	8.363	0	%100
63	M87	X	-2.898	-2.898	0	%100
64	M87	Z	5.02	5.02	0	%100
65	M88A	X	0	0	0	%100
66	M88A	Z	0	0	0	%100
67	M90	X	0	0	0	%100
68	M90	Z	0	0	0	%100
69	M92A	X	-2.898	-2.898	0	%100
70	M92A	Z	5.02	5.02	0	%100
71	M93	X	-8.856	-8.856	0	%100
72	M93	Z	15.339	15.339	0	%100
73	M95	X	-9.328	-9.328	0	%100
74	M95	Z	16.156	16.156	0	%100
75	M82A	X	-5.072	-5.072	0	%100
76	M82A	Z	8.785	8.785	0	%100
77	M91B	X	-5.072	-5.072	0	%100
78	M91B	Z	8.785	8.785	0	%100
79	MP5A	X	-4.589	-4.589	0	%100
80	MP5A	Z	7.948	7.948	0	%100
81	MP4A	X	-4.589	-4.589	0	%100
82	MP4A	Z	7.948	7.948	0	%100
83	MP3A	X	-4.589	-4.589	0	%100
84	MP3A	Z	7.948	7.948	0	%100
85	MP2A	X	-5.555	-5.555	0	%100
86	MP2A	Z	9.622	9.622	0	%100
87	MP1A	X	-5.555	-5.555	0	%100
88	MP1A	Z	9.622	9.622	0	%100
89	MP5C	X	-4.589	-4.589	0	%100
90	MP5C	Z	7.948	7.948	0	%100
91	MP4C	X	-4.589	-4.589	0	%100
92	MP4C	Z	7.948	7.948	0	%100
93	MP3C	X	-4.589	-4.589	0	%100
94	MP3C	Z	7.948	7.948	0	%100
95	MP2C	X	-5.555	-5.555	0	%100
96	MP2C	Z	9.622	9.622	0	%100
97	MP1C	X	-5.555	-5.555	0	%100
98	MP1C	Z	9.622	9.622	0	%100
99	MP5B	X	-4.589	-4.589	0	%100
100	MP5B	Z	7.948	7.948	0	%100
101	MP4B	X	-4.589	-4.589	0	%100
102	MP4B	Z	7.948	7.948	0	%100
103	3	X	-4.589	-4.589	0	%100
104	3	Z	7.948	7.948	0	%100
105	MP2B	X	-5.555	-5.555	0	%100
106	MP2B	Z	9.622	9.622	0	%100
107	MP1B	X	-5.555	-5.555	0	%100
108	MP1B	Z	9.622	9.622	0	%100
109	OVP	X	-3.753	-3.753	0	%100
110	OVP	Z	6.5	6.5	0	%100
111	M108	X	-4.166	-4.166	0	%100
112	M108	Z	7.216	7.216	0	%100
113	M116	X	-4.166	-4.166	0	%100
114	M116	Z	7.216	7.216	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
115	M124	X	0	0	0	%100
116	M124	Z	0	0	0	%100
117	M132	X	0	0	0	%100
118	M132	Z	0	0	0	%100
119	M133	X	-5.449	-5.449	0	%100
120	M133	Z	9.438	9.438	0	%100
121	M134	X	-5.449	-5.449	0	%100
122	M134	Z	9.438	9.438	0	%100
123	M139	X	-.841	-.841	0	%100
124	M139	Z	1.456	1.456	0	%100
125	M140	X	-.841	-.841	0	%100
126	M140	Z	1.456	1.456	0	%100
127	MP3B	X	-4.589	-4.589	0	%100
128	MP3B	Z	7.948	7.948	0	%100
129	M148	X	-.841	-.841	0	%100
130	M148	Z	1.456	1.456	0	%100
131	M149	X	-.841	-.841	0	%100
132	M149	Z	1.456	1.456	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	-2.928	-2.928	0	%100
2	M1	Z	1.691	1.691	0	%100
3	M4	X	-8.923	-8.923	0	%100
4	M4	Z	5.152	5.152	0	%100
5	M10	X	-2.517	-2.517	0	%100
6	M10	Z	1.453	1.453	0	%100
7	M43	X	-2.517	-2.517	0	%100
8	M43	Z	1.453	1.453	0	%100
9	M46	X	-5.02	-5.02	0	%100
10	M46	Z	2.898	2.898	0	%100
11	M51B	X	-2.788	-2.788	0	%100
12	M51B	Z	1.609	1.609	0	%100
13	M52B	X	-11.15	-11.15	0	%100
14	M52B	Z	6.438	6.438	0	%100
15	M76	X	-15.06	-15.06	0	%100
16	M76	Z	8.695	8.695	0	%100
17	M77	X	-5.113	-5.113	0	%100
18	M77	Z	2.952	2.952	0	%100
19	M80	X	-5.385	-5.385	0	%100
20	M80	Z	3.109	3.109	0	%100
21	M84	X	-15.06	-15.06	0	%100
22	M84	Z	8.695	8.695	0	%100
23	M85	X	-20.452	-20.452	0	%100
24	M85	Z	11.808	11.808	0	%100
25	M91	X	-21.542	-21.542	0	%100
26	M91	Z	12.437	12.437	0	%100
27	M52A	X	-8.923	-8.923	0	%100
28	M52A	Z	5.152	5.152	0	%100
29	M53	X	-2.517	-2.517	0	%100
30	M53	Z	1.453	1.453	0	%100
31	M54	X	-2.517	-2.517	0	%100
32	M54	Z	1.453	1.453	0	%100
33	M55	X	-5.02	-5.02	0	%100
34	M55	Z	2.898	2.898	0	%100
35	M58A	X	-11.15	-11.15	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
36	M58A	Z	6.438	6.438	0	%100
37	M59A	X	-2.788	-2.788	0	%100
38	M59A	Z	1.609	1.609	0	%100
39	M63	X	-15.06	-15.06	0	%100
40	M63	Z	8.695	8.695	0	%100
41	M64	X	-20.452	-20.452	0	%100
42	M64	Z	11.808	11.808	0	%100
43	M66	X	-21.542	-21.542	0	%100
44	M66	Z	12.437	12.437	0	%100
45	M68	X	-15.06	-15.06	0	%100
46	M68	Z	8.695	8.695	0	%100
47	M69	X	-5.113	-5.113	0	%100
48	M69	Z	2.952	2.952	0	%100
49	M71	X	-5.385	-5.385	0	%100
50	M71	Z	3.109	3.109	0	%100
51	M76A	X	0	0	0	%100
52	M76A	Z	0	0	0	%100
53	M77A	X	-10.067	-10.067	0	%100
54	M77A	Z	5.812	5.812	0	%100
55	M78	X	-10.067	-10.067	0	%100
56	M78	Z	5.812	5.812	0	%100
57	M79A	X	-20.08	-20.08	0	%100
58	M79A	Z	11.593	11.593	0	%100
59	M82	X	-2.788	-2.788	0	%100
60	M82	Z	1.609	1.609	0	%100
61	M83A	X	-2.788	-2.788	0	%100
62	M83A	Z	1.609	1.609	0	%100
63	M87	X	0	0	0	%100
64	M87	Z	0	0	0	%100
65	M88A	X	-5.113	-5.113	0	%100
66	M88A	Z	2.952	2.952	0	%100
67	M90	X	-5.385	-5.385	0	%100
68	M90	Z	3.109	3.109	0	%100
69	M92A	X	0	0	0	%100
70	M92A	Z	0	0	0	%100
71	M93	X	-5.113	-5.113	0	%100
72	M93	Z	2.952	2.952	0	%100
73	M95	X	-5.385	-5.385	0	%100
74	M95	Z	3.109	3.109	0	%100
75	M82A	X	-2.928	-2.928	0	%100
76	M82A	Z	1.691	1.691	0	%100
77	M91B	X	-11.714	-11.714	0	%100
78	M91B	Z	6.763	6.763	0	%100
79	MP5A	X	-7.948	-7.948	0	%100
80	MP5A	Z	4.589	4.589	0	%100
81	MP4A	X	-7.948	-7.948	0	%100
82	MP4A	Z	4.589	4.589	0	%100
83	MP3A	X	-7.948	-7.948	0	%100
84	MP3A	Z	4.589	4.589	0	%100
85	MP2A	X	-9.622	-9.622	0	%100
86	MP2A	Z	5.555	5.555	0	%100
87	MP1A	X	-9.622	-9.622	0	%100
88	MP1A	Z	5.555	5.555	0	%100
89	MP5C	X	-7.948	-7.948	0	%100
90	MP5C	Z	4.589	4.589	0	%100
91	MP4C	X	-7.948	-7.948	0	%100
92	MP4C	Z	4.589	4.589	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
93	MP3C	X	-7.948	-7.948	0	%100
94	MP3C	Z	4.589	4.589	0	%100
95	MP2C	X	-9.622	-9.622	0	%100
96	MP2C	Z	5.555	5.555	0	%100
97	MP1C	X	-9.622	-9.622	0	%100
98	MP1C	Z	5.555	5.555	0	%100
99	MP5B	X	-7.948	-7.948	0	%100
100	MP5B	Z	4.589	4.589	0	%100
101	MP4B	X	-7.948	-7.948	0	%100
102	MP4B	Z	4.589	4.589	0	%100
103	3	X	-7.948	-7.948	0	%100
104	3	Z	4.589	4.589	0	%100
105	MP2B	X	-9.622	-9.622	0	%100
106	MP2B	Z	5.555	5.555	0	%100
107	MP1B	X	-9.622	-9.622	0	%100
108	MP1B	Z	5.555	5.555	0	%100
109	OVP	X	-6.5	-6.5	0	%100
110	OVP	Z	3.753	3.753	0	%100
111	M108	X	-2.405	-2.405	0	%100
112	M108	Z	1.389	1.389	0	%100
113	M116	X	-9.622	-9.622	0	%100
114	M116	Z	5.555	5.555	0	%100
115	M124	X	-2.405	-2.405	0	%100
116	M124	Z	1.389	1.389	0	%100
117	M132	X	-3.146	-3.146	0	%100
118	M132	Z	1.816	1.816	0	%100
119	M133	X	-12.584	-12.584	0	%100
120	M133	Z	7.265	7.265	0	%100
121	M134	X	-3.146	-3.146	0	%100
122	M134	Z	1.816	1.816	0	%100
123	M139	X	-1.092	-1.092	0	%100
124	M139	Z	.631	.631	0	%100
125	M140	X	-1.092	-1.092	0	%100
126	M140	Z	.631	.631	0	%100
127	MP3B	X	-7.948	-7.948	0	%100
128	MP3B	Z	4.589	4.589	0	%100
129	M148	X	-1.092	-1.092	0	%100
130	M148	Z	.631	.631	0	%100
131	M149	X	-1.092	-1.092	0	%100
132	M149	Z	.631	.631	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	-10.144	-10.144	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	-3.435	-3.435	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	-8.719	-8.719	0	%100
6	M10	Z	0	0	0	%100
7	M43	X	-8.719	-8.719	0	%100
8	M43	Z	0	0	0	%100
9	M46	X	-17.39	-17.39	0	%100
10	M46	Z	0	0	0	%100
11	M51B	X	0	0	0	%100
12	M51B	Z	0	0	0	%100
13	M52B	X	-9.656	-9.656	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
14	M52B	Z	0	0	0	%100
15	M76	X	-5.797	-5.797	0	%100
16	M76	Z	0	0	0	%100
17	M77	X	0	0	0	%100
18	M77	Z	0	0	0	%100
19	M80	X	0	0	0	%100
20	M80	Z	0	0	0	%100
21	M84	X	-5.797	-5.797	0	%100
22	M84	Z	0	0	0	%100
23	M85	X	-17.712	-17.712	0	%100
24	M85	Z	0	0	0	%100
25	M91	X	-18.656	-18.656	0	%100
26	M91	Z	0	0	0	%100
27	M52A	X	-13.738	-13.738	0	%100
28	M52A	Z	0	0	0	%100
29	M53	X	0	0	0	%100
30	M53	Z	0	0	0	%100
31	M54	X	0	0	0	%100
32	M54	Z	0	0	0	%100
33	M55	X	0	0	0	%100
34	M55	Z	0	0	0	%100
35	M58A	X	-9.656	-9.656	0	%100
36	M58A	Z	0	0	0	%100
37	M59A	X	-9.656	-9.656	0	%100
38	M59A	Z	0	0	0	%100
39	M63	X	-23.187	-23.187	0	%100
40	M63	Z	0	0	0	%100
41	M64	X	-17.712	-17.712	0	%100
42	M64	Z	0	0	0	%100
43	M66	X	-18.656	-18.656	0	%100
44	M66	Z	0	0	0	%100
45	M68	X	-23.187	-23.187	0	%100
46	M68	Z	0	0	0	%100
47	M69	X	-17.712	-17.712	0	%100
48	M69	Z	0	0	0	%100
49	M71	X	-18.656	-18.656	0	%100
50	M71	Z	0	0	0	%100
51	M76A	X	-3.435	-3.435	0	%100
52	M76A	Z	0	0	0	%100
53	M77A	X	-8.719	-8.719	0	%100
54	M77A	Z	0	0	0	%100
55	M78	X	-8.719	-8.719	0	%100
56	M78	Z	0	0	0	%100
57	M79A	X	-17.39	-17.39	0	%100
58	M79A	Z	0	0	0	%100
59	M82	X	-9.656	-9.656	0	%100
60	M82	Z	0	0	0	%100
61	M83A	X	0	0	0	%100
62	M83A	Z	0	0	0	%100
63	M87	X	-5.797	-5.797	0	%100
64	M87	Z	0	0	0	%100
65	M88A	X	-17.712	-17.712	0	%100
66	M88A	Z	0	0	0	%100
67	M90	X	-18.656	-18.656	0	%100
68	M90	Z	0	0	0	%100
69	M92A	X	-5.797	-5.797	0	%100
70	M92A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
71	M93	X	0	0	0	%100
72	M93	Z	0	0	0	%100
73	M95	X	0	0	0	%100
74	M95	Z	0	0	0	%100
75	M82A	X	0	0	0	%100
76	M82A	Z	0	0	0	%100
77	M91B	X	-10.144	-10.144	0	%100
78	M91B	Z	0	0	0	%100
79	MP5A	X	-9.178	-9.178	0	%100
80	MP5A	Z	0	0	0	%100
81	MP4A	X	-9.178	-9.178	0	%100
82	MP4A	Z	0	0	0	%100
83	MP3A	X	-9.178	-9.178	0	%100
84	MP3A	Z	0	0	0	%100
85	MP2A	X	-11.11	-11.11	0	%100
86	MP2A	Z	0	0	0	%100
87	MP1A	X	-11.11	-11.11	0	%100
88	MP1A	Z	0	0	0	%100
89	MP5C	X	-9.178	-9.178	0	%100
90	MP5C	Z	0	0	0	%100
91	MP4C	X	-9.178	-9.178	0	%100
92	MP4C	Z	0	0	0	%100
93	MP3C	X	-9.178	-9.178	0	%100
94	MP3C	Z	0	0	0	%100
95	MP2C	X	-11.11	-11.11	0	%100
96	MP2C	Z	0	0	0	%100
97	MP1C	X	-11.11	-11.11	0	%100
98	MP1C	Z	0	0	0	%100
99	MP5B	X	-9.178	-9.178	0	%100
100	MP5B	Z	0	0	0	%100
101	MP4B	X	-9.178	-9.178	0	%100
102	MP4B	Z	0	0	0	%100
103	3	X	-9.178	-9.178	0	%100
104	3	Z	0	0	0	%100
105	MP2B	X	-11.11	-11.11	0	%100
106	MP2B	Z	0	0	0	%100
107	MP1B	X	-11.11	-11.11	0	%100
108	MP1B	Z	0	0	0	%100
109	OVP	X	-7.505	-7.505	0	%100
110	OVP	Z	0	0	0	%100
111	M108	X	0	0	0	%100
112	M108	Z	0	0	0	%100
113	M116	X	-8.333	-8.333	0	%100
114	M116	Z	0	0	0	%100
115	M124	X	-8.333	-8.333	0	%100
116	M124	Z	0	0	0	%100
117	M132	X	-10.898	-10.898	0	%100
118	M132	Z	0	0	0	%100
119	M133	X	-10.898	-10.898	0	%100
120	M133	Z	0	0	0	%100
121	M134	X	0	0	0	%100
122	M134	Z	0	0	0	%100
123	M139	X	-.42	-.42	0	%100
124	M139	Z	0	0	0	%100
125	M140	X	-.42	-.42	0	%100
126	M140	Z	0	0	0	%100
127	MP3B	X	-9.178	-9.178	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
128	MP3B	Z	0	0	0	%100
129	M148	X	-.42	-.42	0	%100
130	M148	Z	0	0	0	%100
131	M149	X	-.42	-.42	0	%100
132	M149	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	-11.714	-11.714	0	%100
2	M1	Z	-6.763	-6.763	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	-10.067	-10.067	0	%100
6	M10	Z	-5.812	-5.812	0	%100
7	M43	X	-10.067	-10.067	0	%100
8	M43	Z	-5.812	-5.812	0	%100
9	M46	X	-20.08	-20.08	0	%100
10	M46	Z	-11.593	-11.593	0	%100
11	M51B	X	-2.788	-2.788	0	%100
12	M51B	Z	-1.609	-1.609	0	%100
13	M52B	X	-2.788	-2.788	0	%100
14	M52B	Z	-1.609	-1.609	0	%100
15	M76	X	0	0	0	%100
16	M76	Z	0	0	0	%100
17	M77	X	-5.113	-5.113	0	%100
18	M77	Z	-2.952	-2.952	0	%100
19	M80	X	-5.385	-5.385	0	%100
20	M80	Z	-3.109	-3.109	0	%100
21	M84	X	0	0	0	%100
22	M84	Z	0	0	0	%100
23	M85	X	-5.113	-5.113	0	%100
24	M85	Z	-2.952	-2.952	0	%100
25	M91	X	-5.385	-5.385	0	%100
26	M91	Z	-3.109	-3.109	0	%100
27	M52A	X	-8.923	-8.923	0	%100
28	M52A	Z	-5.152	-5.152	0	%100
29	M53	X	-2.517	-2.517	0	%100
30	M53	Z	-1.453	-1.453	0	%100
31	M54	X	-2.517	-2.517	0	%100
32	M54	Z	-1.453	-1.453	0	%100
33	M55	X	-5.02	-5.02	0	%100
34	M55	Z	-2.898	-2.898	0	%100
35	M58A	X	-2.788	-2.788	0	%100
36	M58A	Z	-1.609	-1.609	0	%100
37	M59A	X	-11.15	-11.15	0	%100
38	M59A	Z	-6.438	-6.438	0	%100
39	M63	X	-15.06	-15.06	0	%100
40	M63	Z	-8.695	-8.695	0	%100
41	M64	X	-5.113	-5.113	0	%100
42	M64	Z	-2.952	-2.952	0	%100
43	M66	X	-5.385	-5.385	0	%100
44	M66	Z	-3.109	-3.109	0	%100
45	M68	X	-15.06	-15.06	0	%100
46	M68	Z	-8.695	-8.695	0	%100
47	M69	X	-20.452	-20.452	0	%100
48	M69	Z	-11.808	-11.808	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
49	M71	X	-21.542	-21.542	0	%100
50	M71	Z	-12.437	-12.437	0	%100
51	M76A	X	-8.923	-8.923	0	%100
52	M76A	Z	-5.152	-5.152	0	%100
53	M77A	X	-2.517	-2.517	0	%100
54	M77A	Z	-1.453	-1.453	0	%100
55	M78	X	-2.517	-2.517	0	%100
56	M78	Z	-1.453	-1.453	0	%100
57	M79A	X	-5.02	-5.02	0	%100
58	M79A	Z	-2.898	-2.898	0	%100
59	M82	X	-11.15	-11.15	0	%100
60	M82	Z	-6.438	-6.438	0	%100
61	M83A	X	-2.788	-2.788	0	%100
62	M83A	Z	-1.609	-1.609	0	%100
63	M87	X	-15.06	-15.06	0	%100
64	M87	Z	-8.695	-8.695	0	%100
65	M88A	X	-20.452	-20.452	0	%100
66	M88A	Z	-11.808	-11.808	0	%100
67	M90	X	-21.542	-21.542	0	%100
68	M90	Z	-12.437	-12.437	0	%100
69	M92A	X	-15.06	-15.06	0	%100
70	M92A	Z	-8.695	-8.695	0	%100
71	M93	X	-5.113	-5.113	0	%100
72	M93	Z	-2.952	-2.952	0	%100
73	M95	X	-5.385	-5.385	0	%100
74	M95	Z	-3.109	-3.109	0	%100
75	M82A	X	-2.928	-2.928	0	%100
76	M82A	Z	-1.691	-1.691	0	%100
77	M91B	X	-2.928	-2.928	0	%100
78	M91B	Z	-1.691	-1.691	0	%100
79	MP5A	X	-7.948	-7.948	0	%100
80	MP5A	Z	-4.589	-4.589	0	%100
81	MP4A	X	-7.948	-7.948	0	%100
82	MP4A	Z	-4.589	-4.589	0	%100
83	MP3A	X	-7.948	-7.948	0	%100
84	MP3A	Z	-4.589	-4.589	0	%100
85	MP2A	X	-9.622	-9.622	0	%100
86	MP2A	Z	-5.555	-5.555	0	%100
87	MP1A	X	-9.622	-9.622	0	%100
88	MP1A	Z	-5.555	-5.555	0	%100
89	MP5C	X	-7.948	-7.948	0	%100
90	MP5C	Z	-4.589	-4.589	0	%100
91	MP4C	X	-7.948	-7.948	0	%100
92	MP4C	Z	-4.589	-4.589	0	%100
93	MP3C	X	-7.948	-7.948	0	%100
94	MP3C	Z	-4.589	-4.589	0	%100
95	MP2C	X	-9.622	-9.622	0	%100
96	MP2C	Z	-5.555	-5.555	0	%100
97	MP1C	X	-9.622	-9.622	0	%100
98	MP1C	Z	-5.555	-5.555	0	%100
99	MP5B	X	-7.948	-7.948	0	%100
100	MP5B	Z	-4.589	-4.589	0	%100
101	MP4B	X	-7.948	-7.948	0	%100
102	MP4B	Z	-4.589	-4.589	0	%100
103	3	X	-7.948	-7.948	0	%100
104	3	Z	-4.589	-4.589	0	%100
105	MP2B	X	-9.622	-9.622	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
106	MP2B	Z	-5.555	-5.555	0	%100
107	MP1B	X	-9.622	-9.622	0	%100
108	MP1B	Z	-5.555	-5.555	0	%100
109	OVP	X	-6.5	-6.5	0	%100
110	OVP	Z	-3.753	-3.753	0	%100
111	M108	X	-2.405	-2.405	0	%100
112	M108	Z	-1.389	-1.389	0	%100
113	M116	X	-2.405	-2.405	0	%100
114	M116	Z	-1.389	-1.389	0	%100
115	M124	X	-9.622	-9.622	0	%100
116	M124	Z	-5.555	-5.555	0	%100
117	M132	X	-12.584	-12.584	0	%100
118	M132	Z	-7.265	-7.265	0	%100
119	M133	X	-3.146	-3.146	0	%100
120	M133	Z	-1.816	-1.816	0	%100
121	M134	X	-3.146	-3.146	0	%100
122	M134	Z	-1.816	-1.816	0	%100
123	M139	X	0	0	0	%100
124	M139	Z	0	0	0	%100
125	M140	X	0	0	0	%100
126	M140	Z	0	0	0	%100
127	MP3B	X	-7.948	-7.948	0	%100
128	MP3B	Z	-4.589	-4.589	0	%100
129	M148	X	0	0	0	%100
130	M148	Z	0	0	0	%100
131	M149	X	0	0	0	%100
132	M149	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	-5.072	-5.072	0	%100
2	M1	Z	-8.785	-8.785	0	%100
3	M4	X	-1.717	-1.717	0	%100
4	M4	Z	-2.974	-2.974	0	%100
5	M10	X	-4.359	-4.359	0	%100
6	M10	Z	-7.55	-7.55	0	%100
7	M43	X	-4.359	-4.359	0	%100
8	M43	Z	-7.55	-7.55	0	%100
9	M46	X	-8.695	-8.695	0	%100
10	M46	Z	-15.06	-15.06	0	%100
11	M51B	X	-4.828	-4.828	0	%100
12	M51B	Z	-8.363	-8.363	0	%100
13	M52B	X	0	0	0	%100
14	M52B	Z	0	0	0	%100
15	M76	X	-2.898	-2.898	0	%100
16	M76	Z	-5.02	-5.02	0	%100
17	M77	X	-8.856	-8.856	0	%100
18	M77	Z	-15.339	-15.339	0	%100
19	M80	X	-9.328	-9.328	0	%100
20	M80	Z	-16.156	-16.156	0	%100
21	M84	X	-2.898	-2.898	0	%100
22	M84	Z	-5.02	-5.02	0	%100
23	M85	X	0	0	0	%100
24	M85	Z	0	0	0	%100
25	M91	X	0	0	0	%100
26	M91	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
27	M52A	X	-1.717	-1.717	0	%100
28	M52A	Z	-2.974	-2.974	0	%100
29	M53	X	-4.359	-4.359	0	%100
30	M53	Z	-7.55	-7.55	0	%100
31	M54	X	-4.359	-4.359	0	%100
32	M54	Z	-7.55	-7.55	0	%100
33	M55	X	-8.695	-8.695	0	%100
34	M55	Z	-15.06	-15.06	0	%100
35	M58A	X	0	0	0	%100
36	M58A	Z	0	0	0	%100
37	M59A	X	-4.828	-4.828	0	%100
38	M59A	Z	-8.363	-8.363	0	%100
39	M63	X	-2.898	-2.898	0	%100
40	M63	Z	-5.02	-5.02	0	%100
41	M64	X	0	0	0	%100
42	M64	Z	0	0	0	%100
43	M66	X	0	0	0	%100
44	M66	Z	0	0	0	%100
45	M68	X	-2.898	-2.898	0	%100
46	M68	Z	-5.02	-5.02	0	%100
47	M69	X	-8.856	-8.856	0	%100
48	M69	Z	-15.339	-15.339	0	%100
49	M71	X	-9.328	-9.328	0	%100
50	M71	Z	-16.156	-16.156	0	%100
51	M76A	X	-6.869	-6.869	0	%100
52	M76A	Z	-11.898	-11.898	0	%100
53	M77A	X	0	0	0	%100
54	M77A	Z	0	0	0	%100
55	M78	X	0	0	0	%100
56	M78	Z	0	0	0	%100
57	M79A	X	0	0	0	%100
58	M79A	Z	0	0	0	%100
59	M82	X	-4.828	-4.828	0	%100
60	M82	Z	-8.363	-8.363	0	%100
61	M83A	X	-4.828	-4.828	0	%100
62	M83A	Z	-8.363	-8.363	0	%100
63	M87	X	-11.593	-11.593	0	%100
64	M87	Z	-20.08	-20.08	0	%100
65	M88A	X	-8.856	-8.856	0	%100
66	M88A	Z	-15.339	-15.339	0	%100
67	M90	X	-9.328	-9.328	0	%100
68	M90	Z	-16.156	-16.156	0	%100
69	M92A	X	-11.593	-11.593	0	%100
70	M92A	Z	-20.08	-20.08	0	%100
71	M93	X	-8.856	-8.856	0	%100
72	M93	Z	-15.339	-15.339	0	%100
73	M95	X	-9.328	-9.328	0	%100
74	M95	Z	-16.156	-16.156	0	%100
75	M82A	X	-5.072	-5.072	0	%100
76	M82A	Z	-8.785	-8.785	0	%100
77	M91B	X	0	0	0	%100
78	M91B	Z	0	0	0	%100
79	MP5A	X	-4.589	-4.589	0	%100
80	MP5A	Z	-7.948	-7.948	0	%100
81	MP4A	X	-4.589	-4.589	0	%100
82	MP4A	Z	-7.948	-7.948	0	%100
83	MP3A	X	-4.589	-4.589	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
84	MP3A	Z	-7.948	-7.948	0	%100
85	MP2A	X	-5.555	-5.555	0	%100
86	MP2A	Z	-9.622	-9.622	0	%100
87	MP1A	X	-5.555	-5.555	0	%100
88	MP1A	Z	-9.622	-9.622	0	%100
89	MP5C	X	-4.589	-4.589	0	%100
90	MP5C	Z	-7.948	-7.948	0	%100
91	MP4C	X	-4.589	-4.589	0	%100
92	MP4C	Z	-7.948	-7.948	0	%100
93	MP3C	X	-4.589	-4.589	0	%100
94	MP3C	Z	-7.948	-7.948	0	%100
95	MP2C	X	-5.555	-5.555	0	%100
96	MP2C	Z	-9.622	-9.622	0	%100
97	MP1C	X	-5.555	-5.555	0	%100
98	MP1C	Z	-9.622	-9.622	0	%100
99	MP5B	X	-4.589	-4.589	0	%100
100	MP5B	Z	-7.948	-7.948	0	%100
101	MP4B	X	-4.589	-4.589	0	%100
102	MP4B	Z	-7.948	-7.948	0	%100
103	3	X	-4.589	-4.589	0	%100
104	3	Z	-7.948	-7.948	0	%100
105	MP2B	X	-5.555	-5.555	0	%100
106	MP2B	Z	-9.622	-9.622	0	%100
107	MP1B	X	-5.555	-5.555	0	%100
108	MP1B	Z	-9.622	-9.622	0	%100
109	OVP	X	-3.753	-3.753	0	%100
110	OVP	Z	-6.5	-6.5	0	%100
111	M108	X	-4.166	-4.166	0	%100
112	M108	Z	-7.216	-7.216	0	%100
113	M116	X	0	0	0	%100
114	M116	Z	0	0	0	%100
115	M124	X	-4.166	-4.166	0	%100
116	M124	Z	-7.216	-7.216	0	%100
117	M132	X	-5.449	-5.449	0	%100
118	M132	Z	-9.438	-9.438	0	%100
119	M133	X	0	0	0	%100
120	M133	Z	0	0	0	%100
121	M134	X	-5.449	-5.449	0	%100
122	M134	Z	-9.438	-9.438	0	%100
123	M139	X	-.21	-.21	0	%100
124	M139	Z	-.364	-.364	0	%100
125	M140	X	-.21	-.21	0	%100
126	M140	Z	-.364	-.364	0	%100
127	MP3B	X	-4.589	-4.589	0	%100
128	MP3B	Z	-7.948	-7.948	0	%100
129	M148	X	-.21	-.21	0	%100
130	M148	Z	-.364	-.364	0	%100
131	M149	X	-.21	-.21	0	%100
132	M149	Z	-.364	-.364	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	-.872	-.872	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	-2.641	-2.641	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
5	M10	X	0	0	0	%100
6	M10	Z	-.716	-.716	0	%100
7	M43	X	0	0	0	%100
8	M43	Z	-.716	-.716	0	%100
9	M46	X	0	0	0	%100
10	M46	Z	-1.12	-1.12	0	%100
11	M51B	X	0	0	0	%100
12	M51B	Z	-3.297	-3.297	0	%100
13	M52B	X	0	0	0	%100
14	M52B	Z	-.824	-.824	0	%100
15	M76	X	0	0	0	%100
16	M76	Z	-3.304	-3.304	0	%100
17	M77	X	0	0	0	%100
18	M77	Z	-4.472	-4.472	0	%100
19	M80	X	0	0	0	%100
20	M80	Z	-4.667	-4.667	0	%100
21	M84	X	0	0	0	%100
22	M84	Z	-3.304	-3.304	0	%100
23	M85	X	0	0	0	%100
24	M85	Z	-1.118	-1.118	0	%100
25	M91	X	0	0	0	%100
26	M91	Z	-1.167	-1.167	0	%100
27	M52A	X	0	0	0	%100
28	M52A	Z	0	0	0	%100
29	M53	X	0	0	0	%100
30	M53	Z	-2.865	-2.865	0	%100
31	M54	X	0	0	0	%100
32	M54	Z	-2.865	-2.865	0	%100
33	M55	X	0	0	0	%100
34	M55	Z	-4.479	-4.479	0	%100
35	M58A	X	0	0	0	%100
36	M58A	Z	-.824	-.824	0	%100
37	M59A	X	0	0	0	%100
38	M59A	Z	-.824	-.824	0	%100
39	M63	X	0	0	0	%100
40	M63	Z	0	0	0	%100
41	M64	X	0	0	0	%100
42	M64	Z	-1.118	-1.118	0	%100
43	M66	X	0	0	0	%100
44	M66	Z	-1.167	-1.167	0	%100
45	M68	X	0	0	0	%100
46	M68	Z	0	0	0	%100
47	M69	X	0	0	0	%100
48	M69	Z	-1.118	-1.118	0	%100
49	M71	X	0	0	0	%100
50	M71	Z	-1.167	-1.167	0	%100
51	M76A	X	0	0	0	%100
52	M76A	Z	-2.641	-2.641	0	%100
53	M77A	X	0	0	0	%100
54	M77A	Z	-.716	-.716	0	%100
55	M78	X	0	0	0	%100
56	M78	Z	-.716	-.716	0	%100
57	M79A	X	0	0	0	%100
58	M79A	Z	-1.12	-1.12	0	%100
59	M82	X	0	0	0	%100
60	M82	Z	-.824	-.824	0	%100
61	M83A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
62	M83A	Z	-3.297	-3.297	0	%100
63	M87	X	0	0	0	%100
64	M87	Z	-3.304	-3.304	0	%100
65	M88A	X	0	0	0	%100
66	M88A	Z	-1.118	-1.118	0	%100
67	M90	X	0	0	0	%100
68	M90	Z	-1.167	-1.167	0	%100
69	M92A	X	0	0	0	%100
70	M92A	Z	-3.304	-3.304	0	%100
71	M93	X	0	0	0	%100
72	M93	Z	-4.472	-4.472	0	%100
73	M95	X	0	0	0	%100
74	M95	Z	-4.667	-4.667	0	%100
75	M82A	X	0	0	0	%100
76	M82A	Z	-3.488	-3.488	0	%100
77	M91B	X	0	0	0	%100
78	M91B	Z	-.872	-.872	0	%100
79	MP5A	X	0	0	0	%100
80	MP5A	Z	-2.814	-2.814	0	%100
81	MP4A	X	0	0	0	%100
82	MP4A	Z	-2.814	-2.814	0	%100
83	MP3A	X	0	0	0	%100
84	MP3A	Z	-2.814	-2.814	0	%100
85	MP2A	X	0	0	0	%100
86	MP2A	Z	-3.114	-3.114	0	%100
87	MP1A	X	0	0	0	%100
88	MP1A	Z	-3.114	-3.114	0	%100
89	MP5C	X	0	0	0	%100
90	MP5C	Z	-2.814	-2.814	0	%100
91	MP4C	X	0	0	0	%100
92	MP4C	Z	-2.814	-2.814	0	%100
93	MP3C	X	0	0	0	%100
94	MP3C	Z	-2.814	-2.814	0	%100
95	MP2C	X	0	0	0	%100
96	MP2C	Z	-3.114	-3.114	0	%100
97	MP1C	X	0	0	0	%100
98	MP1C	Z	-3.114	-3.114	0	%100
99	MP5B	X	0	0	0	%100
100	MP5B	Z	-2.814	-2.814	0	%100
101	MP4B	X	0	0	0	%100
102	MP4B	Z	-2.814	-2.814	0	%100
103	3	X	0	0	0	%100
104	3	Z	-2.814	-2.814	0	%100
105	MP2B	X	0	0	0	%100
106	MP2B	Z	-3.114	-3.114	0	%100
107	MP1B	X	0	0	0	%100
108	MP1B	Z	-3.114	-3.114	0	%100
109	OVP	X	0	0	0	%100
110	OVP	Z	-2.31	-2.31	0	%100
111	M108	X	0	0	0	%100
112	M108	Z	-3.114	-3.114	0	%100
113	M116	X	0	0	0	%100
114	M116	Z	-.778	-.778	0	%100
115	M124	X	0	0	0	%100
116	M124	Z	-.778	-.778	0	%100
117	M132	X	0	0	0	%100
118	M132	Z	-.834	-.834	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
119	M133	X	0	0	0	%100
120	M133	Z	-.834	-.834	0	%100
121	M134	X	0	0	0	%100
122	M134	Z	-3.336	-3.336	0	%100
123	M139	X	0	0	0	%100
124	M139	Z	-.831	-.831	0	%100
125	M140	X	0	0	0	%100
126	M140	Z	-.831	-.831	0	%100
127	MP3B	X	0	0	0	%100
128	MP3B	Z	-2.814	-2.814	0	%100
129	M148	X	0	0	0	%100
130	M148	Z	-.831	-.831	0	%100
131	M149	X	0	0	0	%100
132	M149	Z	-.831	-.831	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	1.76	1.76	0	%100
4	M4	Z	-3.049	-3.049	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	M43	X	0	0	0	%100
8	M43	Z	0	0	0	%100
9	M46	X	0	0	0	%100
10	M46	Z	0	0	0	%100
11	M51B	X	1.236	1.236	0	%100
12	M51B	Z	-2.141	-2.141	0	%100
13	M52B	X	1.236	1.236	0	%100
14	M52B	Z	-2.141	-2.141	0	%100
15	M76	X	2.203	2.203	0	%100
16	M76	Z	-3.815	-3.815	0	%100
17	M77	X	1.677	1.677	0	%100
18	M77	Z	-2.905	-2.905	0	%100
19	M80	X	1.75	1.75	0	%100
20	M80	Z	-3.031	-3.031	0	%100
21	M84	X	2.203	2.203	0	%100
22	M84	Z	-3.815	-3.815	0	%100
23	M85	X	1.677	1.677	0	%100
24	M85	Z	-2.905	-2.905	0	%100
25	M91	X	1.75	1.75	0	%100
26	M91	Z	-3.031	-3.031	0	%100
27	M52A	X	.44	.44	0	%100
28	M52A	Z	-.762	-.762	0	%100
29	M53	X	1.074	1.074	0	%100
30	M53	Z	-1.861	-1.861	0	%100
31	M54	X	1.074	1.074	0	%100
32	M54	Z	-1.861	-1.861	0	%100
33	M55	X	1.679	1.679	0	%100
34	M55	Z	-2.909	-2.909	0	%100
35	M58A	X	1.236	1.236	0	%100
36	M58A	Z	-2.141	-2.141	0	%100
37	M59A	X	0	0	0	%100
38	M59A	Z	0	0	0	%100
39	M63	X	.551	.551	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
40	M63	Z	-.954	-.954	0	%100
41	M64	X	1.677	1.677	0	%100
42	M64	Z	-2.905	-2.905	0	%100
43	M66	X	1.75	1.75	0	%100
44	M66	Z	-3.031	-3.031	0	%100
45	M68	X	.551	.551	0	%100
46	M68	Z	-.954	-.954	0	%100
47	M69	X	0	0	0	%100
48	M69	Z	0	0	0	%100
49	M71	X	0	0	0	%100
50	M71	Z	0	0	0	%100
51	M76A	X	.44	.44	0	%100
52	M76A	Z	-.762	-.762	0	%100
53	M77A	X	1.074	1.074	0	%100
54	M77A	Z	-1.861	-1.861	0	%100
55	M78	X	1.074	1.074	0	%100
56	M78	Z	-1.861	-1.861	0	%100
57	M79A	X	1.679	1.679	0	%100
58	M79A	Z	-2.909	-2.909	0	%100
59	M82	X	0	0	0	%100
60	M82	Z	0	0	0	%100
61	M83A	X	1.236	1.236	0	%100
62	M83A	Z	-2.141	-2.141	0	%100
63	M87	X	.551	.551	0	%100
64	M87	Z	-.954	-.954	0	%100
65	M88A	X	0	0	0	%100
66	M88A	Z	0	0	0	%100
67	M90	X	0	0	0	%100
68	M90	Z	0	0	0	%100
69	M92A	X	.551	.551	0	%100
70	M92A	Z	-.954	-.954	0	%100
71	M93	X	1.677	1.677	0	%100
72	M93	Z	-2.905	-2.905	0	%100
73	M95	X	1.75	1.75	0	%100
74	M95	Z	-3.031	-3.031	0	%100
75	M82A	X	1.308	1.308	0	%100
76	M82A	Z	-2.265	-2.265	0	%100
77	M91B	X	1.308	1.308	0	%100
78	M91B	Z	-2.265	-2.265	0	%100
79	MP5A	X	1.407	1.407	0	%100
80	MP5A	Z	-2.437	-2.437	0	%100
81	MP4A	X	1.407	1.407	0	%100
82	MP4A	Z	-2.437	-2.437	0	%100
83	MP3A	X	1.407	1.407	0	%100
84	MP3A	Z	-2.437	-2.437	0	%100
85	MP2A	X	1.557	1.557	0	%100
86	MP2A	Z	-2.696	-2.696	0	%100
87	MP1A	X	1.557	1.557	0	%100
88	MP1A	Z	-2.696	-2.696	0	%100
89	MP5C	X	1.407	1.407	0	%100
90	MP5C	Z	-2.437	-2.437	0	%100
91	MP4C	X	1.407	1.407	0	%100
92	MP4C	Z	-2.437	-2.437	0	%100
93	MP3C	X	1.407	1.407	0	%100
94	MP3C	Z	-2.437	-2.437	0	%100
95	MP2C	X	1.557	1.557	0	%100
96	MP2C	Z	-2.696	-2.696	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
97	MP1C	X	1.557	1.557	0	%100
98	MP1C	Z	-2.696	-2.696	0	%100
99	MP5B	X	1.407	1.407	0	%100
100	MP5B	Z	-2.437	-2.437	0	%100
101	MP4B	X	1.407	1.407	0	%100
102	MP4B	Z	-2.437	-2.437	0	%100
103	3	X	1.407	1.407	0	%100
104	3	Z	-2.437	-2.437	0	%100
105	MP2B	X	1.557	1.557	0	%100
106	MP2B	Z	-2.696	-2.696	0	%100
107	MP1B	X	1.557	1.557	0	%100
108	MP1B	Z	-2.696	-2.696	0	%100
109	OVP	X	1.155	1.155	0	%100
110	OVP	Z	-2	-2	0	%100
111	M108	X	1.168	1.168	0	%100
112	M108	Z	-2.022	-2.022	0	%100
113	M116	X	1.168	1.168	0	%100
114	M116	Z	-2.022	-2.022	0	%100
115	M124	X	0	0	0	%100
116	M124	Z	0	0	0	%100
117	M132	X	0	0	0	%100
118	M132	Z	0	0	0	%100
119	M133	X	1.251	1.251	0	%100
120	M133	Z	-2.167	-2.167	0	%100
121	M134	X	1.251	1.251	0	%100
122	M134	Z	-2.167	-2.167	0	%100
123	M139	X	.554	.554	0	%100
124	M139	Z	-.959	-.959	0	%100
125	M140	X	.554	.554	0	%100
126	M140	Z	-.959	-.959	0	%100
127	MP3B	X	1.407	1.407	0	%100
128	MP3B	Z	-2.437	-2.437	0	%100
129	M148	X	.554	.554	0	%100
130	M148	Z	-.959	-.959	0	%100
131	M149	X	.554	.554	0	%100
132	M149	Z	-.959	-.959	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	.755	.755	0	%100
2	M1	Z	-.436	-.436	0	%100
3	M4	X	2.287	2.287	0	%100
4	M4	Z	-1.32	-1.32	0	%100
5	M10	X	.62	.62	0	%100
6	M10	Z	-.358	-.358	0	%100
7	M43	X	.62	.62	0	%100
8	M43	Z	-.358	-.358	0	%100
9	M46	X	.97	.97	0	%100
10	M46	Z	-.56	-.56	0	%100
11	M51B	X	.714	.714	0	%100
12	M51B	Z	-.412	-.412	0	%100
13	M52B	X	2.855	2.855	0	%100
14	M52B	Z	-1.648	-1.648	0	%100
15	M76	X	2.862	2.862	0	%100
16	M76	Z	-1.652	-1.652	0	%100
17	M77	X	.968	.968	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
18	M77	Z	-.559	-.559	0	%100
19	M80	X	1.01	1.01	0	%100
20	M80	Z	-.583	-.583	0	%100
21	M84	X	2.862	2.862	0	%100
22	M84	Z	-1.652	-1.652	0	%100
23	M85	X	3.873	3.873	0	%100
24	M85	Z	-2.236	-2.236	0	%100
25	M91	X	4.042	4.042	0	%100
26	M91	Z	-2.334	-2.334	0	%100
27	M52A	X	2.287	2.287	0	%100
28	M52A	Z	-1.32	-1.32	0	%100
29	M53	X	.62	.62	0	%100
30	M53	Z	-.358	-.358	0	%100
31	M54	X	.62	.62	0	%100
32	M54	Z	-.358	-.358	0	%100
33	M55	X	.97	.97	0	%100
34	M55	Z	-.56	-.56	0	%100
35	M58A	X	2.855	2.855	0	%100
36	M58A	Z	-1.648	-1.648	0	%100
37	M59A	X	.714	.714	0	%100
38	M59A	Z	-.412	-.412	0	%100
39	M63	X	2.862	2.862	0	%100
40	M63	Z	-1.652	-1.652	0	%100
41	M64	X	3.873	3.873	0	%100
42	M64	Z	-2.236	-2.236	0	%100
43	M66	X	4.042	4.042	0	%100
44	M66	Z	-2.334	-2.334	0	%100
45	M68	X	2.862	2.862	0	%100
46	M68	Z	-1.652	-1.652	0	%100
47	M69	X	.968	.968	0	%100
48	M69	Z	-.559	-.559	0	%100
49	M71	X	1.01	1.01	0	%100
50	M71	Z	-.583	-.583	0	%100
51	M76A	X	0	0	0	%100
52	M76A	Z	0	0	0	%100
53	M77A	X	2.481	2.481	0	%100
54	M77A	Z	-1.433	-1.433	0	%100
55	M78	X	2.481	2.481	0	%100
56	M78	Z	-1.433	-1.433	0	%100
57	M79A	X	3.878	3.878	0	%100
58	M79A	Z	-2.239	-2.239	0	%100
59	M82	X	.714	.714	0	%100
60	M82	Z	-.412	-.412	0	%100
61	M83A	X	.714	.714	0	%100
62	M83A	Z	-.412	-.412	0	%100
63	M87	X	0	0	0	%100
64	M87	Z	0	0	0	%100
65	M88A	X	.968	.968	0	%100
66	M88A	Z	-.559	-.559	0	%100
67	M90	X	1.01	1.01	0	%100
68	M90	Z	-.583	-.583	0	%100
69	M92A	X	0	0	0	%100
70	M92A	Z	0	0	0	%100
71	M93	X	.968	.968	0	%100
72	M93	Z	-.559	-.559	0	%100
73	M95	X	1.01	1.01	0	%100
74	M95	Z	-.583	-.583	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
75	M82A	X	.755	.755	0	%100
76	M82A	Z	-.436	-.436	0	%100
77	M91B	X	3.021	3.021	0	%100
78	M91B	Z	-1.744	-1.744	0	%100
79	MP5A	X	2.437	2.437	0	%100
80	MP5A	Z	-1.407	-1.407	0	%100
81	MP4A	X	2.437	2.437	0	%100
82	MP4A	Z	-1.407	-1.407	0	%100
83	MP3A	X	2.437	2.437	0	%100
84	MP3A	Z	-1.407	-1.407	0	%100
85	MP2A	X	2.696	2.696	0	%100
86	MP2A	Z	-1.557	-1.557	0	%100
87	MP1A	X	2.696	2.696	0	%100
88	MP1A	Z	-1.557	-1.557	0	%100
89	MP5C	X	2.437	2.437	0	%100
90	MP5C	Z	-1.407	-1.407	0	%100
91	MP4C	X	2.437	2.437	0	%100
92	MP4C	Z	-1.407	-1.407	0	%100
93	MP3C	X	2.437	2.437	0	%100
94	MP3C	Z	-1.407	-1.407	0	%100
95	MP2C	X	2.696	2.696	0	%100
96	MP2C	Z	-1.557	-1.557	0	%100
97	MP1C	X	2.696	2.696	0	%100
98	MP1C	Z	-1.557	-1.557	0	%100
99	MP5B	X	2.437	2.437	0	%100
100	MP5B	Z	-1.407	-1.407	0	%100
101	MP4B	X	2.437	2.437	0	%100
102	MP4B	Z	-1.407	-1.407	0	%100
103	3	X	2.437	2.437	0	%100
104	3	Z	-1.407	-1.407	0	%100
105	MP2B	X	2.696	2.696	0	%100
106	MP2B	Z	-1.557	-1.557	0	%100
107	MP1B	X	2.696	2.696	0	%100
108	MP1B	Z	-1.557	-1.557	0	%100
109	OVP	X	2	2	0	%100
110	OVP	Z	-1.155	-1.155	0	%100
111	M108	X	.674	.674	0	%100
112	M108	Z	-.389	-.389	0	%100
113	M116	X	2.696	2.696	0	%100
114	M116	Z	-1.557	-1.557	0	%100
115	M124	X	.674	.674	0	%100
116	M124	Z	-.389	-.389	0	%100
117	M132	X	.722	.722	0	%100
118	M132	Z	-.417	-.417	0	%100
119	M133	X	2.889	2.889	0	%100
120	M133	Z	-1.668	-1.668	0	%100
121	M134	X	.722	.722	0	%100
122	M134	Z	-.417	-.417	0	%100
123	M139	X	.72	.72	0	%100
124	M139	Z	-.415	-.415	0	%100
125	M140	X	.72	.72	0	%100
126	M140	Z	-.415	-.415	0	%100
127	MP3B	X	2.437	2.437	0	%100
128	MP3B	Z	-1.407	-1.407	0	%100
129	M148	X	.72	.72	0	%100
130	M148	Z	-.415	-.415	0	%100
131	M149	X	.72	.72	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
132	M149	Z	-.415	-.415	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	2.616	2.616	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	.88	.88	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	2.149	2.149	0	%100
6	M10	Z	0	0	0	%100
7	M43	X	2.149	2.149	0	%100
8	M43	Z	0	0	0	%100
9	M46	X	3.359	3.359	0	%100
10	M46	Z	0	0	0	%100
11	M51B	X	0	0	0	%100
12	M51B	Z	0	0	0	%100
13	M52B	X	2.473	2.473	0	%100
14	M52B	Z	0	0	0	%100
15	M76	X	1.101	1.101	0	%100
16	M76	Z	0	0	0	%100
17	M77	X	0	0	0	%100
18	M77	Z	0	0	0	%100
19	M80	X	0	0	0	%100
20	M80	Z	0	0	0	%100
21	M84	X	1.101	1.101	0	%100
22	M84	Z	0	0	0	%100
23	M85	X	3.354	3.354	0	%100
24	M85	Z	0	0	0	%100
25	M91	X	3.5	3.5	0	%100
26	M91	Z	0	0	0	%100
27	M52A	X	3.521	3.521	0	%100
28	M52A	Z	0	0	0	%100
29	M53	X	0	0	0	%100
30	M53	Z	0	0	0	%100
31	M54	X	0	0	0	%100
32	M54	Z	0	0	0	%100
33	M55	X	0	0	0	%100
34	M55	Z	0	0	0	%100
35	M58A	X	2.473	2.473	0	%100
36	M58A	Z	0	0	0	%100
37	M59A	X	2.473	2.473	0	%100
38	M59A	Z	0	0	0	%100
39	M63	X	4.406	4.406	0	%100
40	M63	Z	0	0	0	%100
41	M64	X	3.354	3.354	0	%100
42	M64	Z	0	0	0	%100
43	M66	X	3.5	3.5	0	%100
44	M66	Z	0	0	0	%100
45	M68	X	4.406	4.406	0	%100
46	M68	Z	0	0	0	%100
47	M69	X	3.354	3.354	0	%100
48	M69	Z	0	0	0	%100
49	M71	X	3.5	3.5	0	%100
50	M71	Z	0	0	0	%100
51	M76A	X	.88	.88	0	%100
52	M76A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
53	M77A	X	2.149	2.149	0	%100
54	M77A	Z	0	0	0	%100
55	M78	X	2.149	2.149	0	%100
56	M78	Z	0	0	0	%100
57	M79A	X	3.359	3.359	0	%100
58	M79A	Z	0	0	0	%100
59	M82	X	2.473	2.473	0	%100
60	M82	Z	0	0	0	%100
61	M83A	X	0	0	0	%100
62	M83A	Z	0	0	0	%100
63	M87	X	1.101	1.101	0	%100
64	M87	Z	0	0	0	%100
65	M88A	X	3.354	3.354	0	%100
66	M88A	Z	0	0	0	%100
67	M90	X	3.5	3.5	0	%100
68	M90	Z	0	0	0	%100
69	M92A	X	1.101	1.101	0	%100
70	M92A	Z	0	0	0	%100
71	M93	X	0	0	0	%100
72	M93	Z	0	0	0	%100
73	M95	X	0	0	0	%100
74	M95	Z	0	0	0	%100
75	M82A	X	0	0	0	%100
76	M82A	Z	0	0	0	%100
77	M91B	X	2.616	2.616	0	%100
78	M91B	Z	0	0	0	%100
79	MP5A	X	2.814	2.814	0	%100
80	MP5A	Z	0	0	0	%100
81	MP4A	X	2.814	2.814	0	%100
82	MP4A	Z	0	0	0	%100
83	MP3A	X	2.814	2.814	0	%100
84	MP3A	Z	0	0	0	%100
85	MP2A	X	3.114	3.114	0	%100
86	MP2A	Z	0	0	0	%100
87	MP1A	X	3.114	3.114	0	%100
88	MP1A	Z	0	0	0	%100
89	MP5C	X	2.814	2.814	0	%100
90	MP5C	Z	0	0	0	%100
91	MP4C	X	2.814	2.814	0	%100
92	MP4C	Z	0	0	0	%100
93	MP3C	X	2.814	2.814	0	%100
94	MP3C	Z	0	0	0	%100
95	MP2C	X	3.114	3.114	0	%100
96	MP2C	Z	0	0	0	%100
97	MP1C	X	3.114	3.114	0	%100
98	MP1C	Z	0	0	0	%100
99	MP5B	X	2.814	2.814	0	%100
100	MP5B	Z	0	0	0	%100
101	MP4B	X	2.814	2.814	0	%100
102	MP4B	Z	0	0	0	%100
103	3	X	2.814	2.814	0	%100
104	3	Z	0	0	0	%100
105	MP2B	X	3.114	3.114	0	%100
106	MP2B	Z	0	0	0	%100
107	MP1B	X	3.114	3.114	0	%100
108	MP1B	Z	0	0	0	%100
109	OVP	X	2.31	2.31	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
110	OVP	Z	0	0	0	%100
111	M108	X	0	0	0	%100
112	M108	Z	0	0	0	%100
113	M116	X	2.335	2.335	0	%100
114	M116	Z	0	0	0	%100
115	M124	X	2.335	2.335	0	%100
116	M124	Z	0	0	0	%100
117	M132	X	2.502	2.502	0	%100
118	M132	Z	0	0	0	%100
119	M133	X	2.502	2.502	0	%100
120	M133	Z	0	0	0	%100
121	M134	X	0	0	0	%100
122	M134	Z	0	0	0	%100
123	M139	X	.277	.277	0	%100
124	M139	Z	0	0	0	%100
125	M140	X	.277	.277	0	%100
126	M140	Z	0	0	0	%100
127	MP3B	X	2.814	2.814	0	%100
128	MP3B	Z	0	0	0	%100
129	M148	X	.277	.277	0	%100
130	M148	Z	0	0	0	%100
131	M149	X	.277	.277	0	%100
132	M149	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	3.021	3.021	0	%100
2	M1	Z	1.744	1.744	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	2.481	2.481	0	%100
6	M10	Z	1.433	1.433	0	%100
7	M43	X	2.481	2.481	0	%100
8	M43	Z	1.433	1.433	0	%100
9	M46	X	3.878	3.878	0	%100
10	M46	Z	2.239	2.239	0	%100
11	M51B	X	.714	.714	0	%100
12	M51B	Z	.412	.412	0	%100
13	M52B	X	.714	.714	0	%100
14	M52B	Z	.412	.412	0	%100
15	M76	X	0	0	0	%100
16	M76	Z	0	0	0	%100
17	M77	X	.968	.968	0	%100
18	M77	Z	.559	.559	0	%100
19	M80	X	1.01	1.01	0	%100
20	M80	Z	.583	.583	0	%100
21	M84	X	0	0	0	%100
22	M84	Z	0	0	0	%100
23	M85	X	.968	.968	0	%100
24	M85	Z	.559	.559	0	%100
25	M91	X	1.01	1.01	0	%100
26	M91	Z	.583	.583	0	%100
27	M52A	X	2.287	2.287	0	%100
28	M52A	Z	1.32	1.32	0	%100
29	M53	X	.62	.62	0	%100
30	M53	Z	.358	.358	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
31	M54	X	.62	.62	0	%100
32	M54	Z	.358	.358	0	%100
33	M55	X	.97	.97	0	%100
34	M55	Z	.56	.56	0	%100
35	M58A	X	.714	.714	0	%100
36	M58A	Z	.412	.412	0	%100
37	M59A	X	2.855	2.855	0	%100
38	M59A	Z	1.648	1.648	0	%100
39	M63	X	2.862	2.862	0	%100
40	M63	Z	1.652	1.652	0	%100
41	M64	X	.968	.968	0	%100
42	M64	Z	.559	.559	0	%100
43	M66	X	1.01	1.01	0	%100
44	M66	Z	.583	.583	0	%100
45	M68	X	2.862	2.862	0	%100
46	M68	Z	1.652	1.652	0	%100
47	M69	X	3.873	3.873	0	%100
48	M69	Z	2.236	2.236	0	%100
49	M71	X	4.042	4.042	0	%100
50	M71	Z	2.334	2.334	0	%100
51	M76A	X	2.287	2.287	0	%100
52	M76A	Z	1.32	1.32	0	%100
53	M77A	X	.62	.62	0	%100
54	M77A	Z	.358	.358	0	%100
55	M78	X	.62	.62	0	%100
56	M78	Z	.358	.358	0	%100
57	M79A	X	.97	.97	0	%100
58	M79A	Z	.56	.56	0	%100
59	M82	X	2.855	2.855	0	%100
60	M82	Z	1.648	1.648	0	%100
61	M83A	X	.714	.714	0	%100
62	M83A	Z	.412	.412	0	%100
63	M87	X	2.862	2.862	0	%100
64	M87	Z	1.652	1.652	0	%100
65	M88A	X	3.873	3.873	0	%100
66	M88A	Z	2.236	2.236	0	%100
67	M90	X	4.042	4.042	0	%100
68	M90	Z	2.334	2.334	0	%100
69	M92A	X	2.862	2.862	0	%100
70	M92A	Z	1.652	1.652	0	%100
71	M93	X	.968	.968	0	%100
72	M93	Z	.559	.559	0	%100
73	M95	X	1.01	1.01	0	%100
74	M95	Z	.583	.583	0	%100
75	M82A	X	.755	.755	0	%100
76	M82A	Z	.436	.436	0	%100
77	M91B	X	.755	.755	0	%100
78	M91B	Z	.436	.436	0	%100
79	MP5A	X	2.437	2.437	0	%100
80	MP5A	Z	1.407	1.407	0	%100
81	MP4A	X	2.437	2.437	0	%100
82	MP4A	Z	1.407	1.407	0	%100
83	MP3A	X	2.437	2.437	0	%100
84	MP3A	Z	1.407	1.407	0	%100
85	MP2A	X	2.696	2.696	0	%100
86	MP2A	Z	1.557	1.557	0	%100
87	MP1A	X	2.696	2.696	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
88	MP1A	Z	1.557	1.557	0	%100
89	MP5C	X	2.437	2.437	0	%100
90	MP5C	Z	1.407	1.407	0	%100
91	MP4C	X	2.437	2.437	0	%100
92	MP4C	Z	1.407	1.407	0	%100
93	MP3C	X	2.437	2.437	0	%100
94	MP3C	Z	1.407	1.407	0	%100
95	MP2C	X	2.696	2.696	0	%100
96	MP2C	Z	1.557	1.557	0	%100
97	MP1C	X	2.696	2.696	0	%100
98	MP1C	Z	1.557	1.557	0	%100
99	MP5B	X	2.437	2.437	0	%100
100	MP5B	Z	1.407	1.407	0	%100
101	MP4B	X	2.437	2.437	0	%100
102	MP4B	Z	1.407	1.407	0	%100
103	3	X	2.437	2.437	0	%100
104	3	Z	1.407	1.407	0	%100
105	MP2B	X	2.696	2.696	0	%100
106	MP2B	Z	1.557	1.557	0	%100
107	MP1B	X	2.696	2.696	0	%100
108	MP1B	Z	1.557	1.557	0	%100
109	OVP	X	2	2	0	%100
110	OVP	Z	1.155	1.155	0	%100
111	M108	X	.674	.674	0	%100
112	M108	Z	.389	.389	0	%100
113	M116	X	.674	.674	0	%100
114	M116	Z	.389	.389	0	%100
115	M124	X	2.696	2.696	0	%100
116	M124	Z	1.557	1.557	0	%100
117	M132	X	2.889	2.889	0	%100
118	M132	Z	1.668	1.668	0	%100
119	M133	X	.722	.722	0	%100
120	M133	Z	.417	.417	0	%100
121	M134	X	.722	.722	0	%100
122	M134	Z	.417	.417	0	%100
123	M139	X	0	0	0	%100
124	M139	Z	0	0	0	%100
125	M140	X	0	0	0	%100
126	M140	Z	0	0	0	%100
127	MP3B	X	2.437	2.437	0	%100
128	MP3B	Z	1.407	1.407	0	%100
129	M148	X	0	0	0	%100
130	M148	Z	0	0	0	%100
131	M149	X	0	0	0	%100
132	M149	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	1.308	1.308	0	%100
2	M1	Z	2.265	2.265	0	%100
3	M4	X	.44	.44	0	%100
4	M4	Z	.762	.762	0	%100
5	M10	X	1.074	1.074	0	%100
6	M10	Z	1.861	1.861	0	%100
7	M43	X	1.074	1.074	0	%100
8	M43	Z	1.861	1.861	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
9	M46	X	1.679	1.679	0	%100
10	M46	Z	2.909	2.909	0	%100
11	M51B	X	1.236	1.236	0	%100
12	M51B	Z	2.141	2.141	0	%100
13	M52B	X	0	0	0	%100
14	M52B	Z	0	0	0	%100
15	M76	X	.551	.551	0	%100
16	M76	Z	.954	.954	0	%100
17	M77	X	1.677	1.677	0	%100
18	M77	Z	2.905	2.905	0	%100
19	M80	X	1.75	1.75	0	%100
20	M80	Z	3.031	3.031	0	%100
21	M84	X	.551	.551	0	%100
22	M84	Z	.954	.954	0	%100
23	M85	X	0	0	0	%100
24	M85	Z	0	0	0	%100
25	M91	X	0	0	0	%100
26	M91	Z	0	0	0	%100
27	M52A	X	.44	.44	0	%100
28	M52A	Z	.762	.762	0	%100
29	M53	X	1.074	1.074	0	%100
30	M53	Z	1.861	1.861	0	%100
31	M54	X	1.074	1.074	0	%100
32	M54	Z	1.861	1.861	0	%100
33	M55	X	1.679	1.679	0	%100
34	M55	Z	2.909	2.909	0	%100
35	M58A	X	0	0	0	%100
36	M58A	Z	0	0	0	%100
37	M59A	X	1.236	1.236	0	%100
38	M59A	Z	2.141	2.141	0	%100
39	M63	X	.551	.551	0	%100
40	M63	Z	.954	.954	0	%100
41	M64	X	0	0	0	%100
42	M64	Z	0	0	0	%100
43	M66	X	0	0	0	%100
44	M66	Z	0	0	0	%100
45	M68	X	.551	.551	0	%100
46	M68	Z	.954	.954	0	%100
47	M69	X	1.677	1.677	0	%100
48	M69	Z	2.905	2.905	0	%100
49	M71	X	1.75	1.75	0	%100
50	M71	Z	3.031	3.031	0	%100
51	M76A	X	1.76	1.76	0	%100
52	M76A	Z	3.049	3.049	0	%100
53	M77A	X	0	0	0	%100
54	M77A	Z	0	0	0	%100
55	M78	X	0	0	0	%100
56	M78	Z	0	0	0	%100
57	M79A	X	0	0	0	%100
58	M79A	Z	0	0	0	%100
59	M82	X	1.236	1.236	0	%100
60	M82	Z	2.141	2.141	0	%100
61	M83A	X	1.236	1.236	0	%100
62	M83A	Z	2.141	2.141	0	%100
63	M87	X	2.203	2.203	0	%100
64	M87	Z	3.815	3.815	0	%100
65	M88A	X	1.677	1.677	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
66	M88A	Z	2.905	2.905	0	%100
67	M90	X	1.75	1.75	0	%100
68	M90	Z	3.031	3.031	0	%100
69	M92A	X	2.203	2.203	0	%100
70	M92A	Z	3.815	3.815	0	%100
71	M93	X	1.677	1.677	0	%100
72	M93	Z	2.905	2.905	0	%100
73	M95	X	1.75	1.75	0	%100
74	M95	Z	3.031	3.031	0	%100
75	M82A	X	1.308	1.308	0	%100
76	M82A	Z	2.265	2.265	0	%100
77	M91B	X	0	0	0	%100
78	M91B	Z	0	0	0	%100
79	MP5A	X	1.407	1.407	0	%100
80	MP5A	Z	2.437	2.437	0	%100
81	MP4A	X	1.407	1.407	0	%100
82	MP4A	Z	2.437	2.437	0	%100
83	MP3A	X	1.407	1.407	0	%100
84	MP3A	Z	2.437	2.437	0	%100
85	MP2A	X	1.557	1.557	0	%100
86	MP2A	Z	2.696	2.696	0	%100
87	MP1A	X	1.557	1.557	0	%100
88	MP1A	Z	2.696	2.696	0	%100
89	MP5C	X	1.407	1.407	0	%100
90	MP5C	Z	2.437	2.437	0	%100
91	MP4C	X	1.407	1.407	0	%100
92	MP4C	Z	2.437	2.437	0	%100
93	MP3C	X	1.407	1.407	0	%100
94	MP3C	Z	2.437	2.437	0	%100
95	MP2C	X	1.557	1.557	0	%100
96	MP2C	Z	2.696	2.696	0	%100
97	MP1C	X	1.557	1.557	0	%100
98	MP1C	Z	2.696	2.696	0	%100
99	MP5B	X	1.407	1.407	0	%100
100	MP5B	Z	2.437	2.437	0	%100
101	MP4B	X	1.407	1.407	0	%100
102	MP4B	Z	2.437	2.437	0	%100
103	3	X	1.407	1.407	0	%100
104	3	Z	2.437	2.437	0	%100
105	MP2B	X	1.557	1.557	0	%100
106	MP2B	Z	2.696	2.696	0	%100
107	MP1B	X	1.557	1.557	0	%100
108	MP1B	Z	2.696	2.696	0	%100
109	OVP	X	1.155	1.155	0	%100
110	OVP	Z	2	2	0	%100
111	M108	X	1.168	1.168	0	%100
112	M108	Z	2.022	2.022	0	%100
113	M116	X	0	0	0	%100
114	M116	Z	0	0	0	%100
115	M124	X	1.168	1.168	0	%100
116	M124	Z	2.022	2.022	0	%100
117	M132	X	1.251	1.251	0	%100
118	M132	Z	2.167	2.167	0	%100
119	M133	X	0	0	0	%100
120	M133	Z	0	0	0	%100
121	M134	X	1.251	1.251	0	%100
122	M134	Z	2.167	2.167	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
123	M139	X	.138	.138	0	%100
124	M139	Z	.24	.24	0	%100
125	M140	X	.138	.138	0	%100
126	M140	Z	.24	.24	0	%100
127	MP3B	X	1.407	1.407	0	%100
128	MP3B	Z	2.437	2.437	0	%100
129	M148	X	.138	.138	0	%100
130	M148	Z	.24	.24	0	%100
131	M149	X	.138	.138	0	%100
132	M149	Z	.24	.24	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	.872	.872	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	2.641	2.641	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	.716	.716	0	%100
7	M43	X	0	0	0	%100
8	M43	Z	.716	.716	0	%100
9	M46	X	0	0	0	%100
10	M46	Z	1.12	1.12	0	%100
11	M51B	X	0	0	0	%100
12	M51B	Z	3.297	3.297	0	%100
13	M52B	X	0	0	0	%100
14	M52B	Z	.824	.824	0	%100
15	M76	X	0	0	0	%100
16	M76	Z	3.304	3.304	0	%100
17	M77	X	0	0	0	%100
18	M77	Z	4.472	4.472	0	%100
19	M80	X	0	0	0	%100
20	M80	Z	4.667	4.667	0	%100
21	M84	X	0	0	0	%100
22	M84	Z	3.304	3.304	0	%100
23	M85	X	0	0	0	%100
24	M85	Z	1.118	1.118	0	%100
25	M91	X	0	0	0	%100
26	M91	Z	1.167	1.167	0	%100
27	M52A	X	0	0	0	%100
28	M52A	Z	0	0	0	%100
29	M53	X	0	0	0	%100
30	M53	Z	2.865	2.865	0	%100
31	M54	X	0	0	0	%100
32	M54	Z	2.865	2.865	0	%100
33	M55	X	0	0	0	%100
34	M55	Z	4.479	4.479	0	%100
35	M58A	X	0	0	0	%100
36	M58A	Z	.824	.824	0	%100
37	M59A	X	0	0	0	%100
38	M59A	Z	.824	.824	0	%100
39	M63	X	0	0	0	%100
40	M63	Z	0	0	0	%100
41	M64	X	0	0	0	%100
42	M64	Z	1.118	1.118	0	%100
43	M66	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
44	M66	Z	1.167	1.167	0	%100
45	M68	X	0	0	0	%100
46	M68	Z	0	0	0	%100
47	M69	X	0	0	0	%100
48	M69	Z	1.118	1.118	0	%100
49	M71	X	0	0	0	%100
50	M71	Z	1.167	1.167	0	%100
51	M76A	X	0	0	0	%100
52	M76A	Z	2.641	2.641	0	%100
53	M77A	X	0	0	0	%100
54	M77A	Z	.716	.716	0	%100
55	M78	X	0	0	0	%100
56	M78	Z	.716	.716	0	%100
57	M79A	X	0	0	0	%100
58	M79A	Z	1.12	1.12	0	%100
59	M82	X	0	0	0	%100
60	M82	Z	.824	.824	0	%100
61	M83A	X	0	0	0	%100
62	M83A	Z	3.297	3.297	0	%100
63	M87	X	0	0	0	%100
64	M87	Z	3.304	3.304	0	%100
65	M88A	X	0	0	0	%100
66	M88A	Z	1.118	1.118	0	%100
67	M90	X	0	0	0	%100
68	M90	Z	1.167	1.167	0	%100
69	M92A	X	0	0	0	%100
70	M92A	Z	3.304	3.304	0	%100
71	M93	X	0	0	0	%100
72	M93	Z	4.472	4.472	0	%100
73	M95	X	0	0	0	%100
74	M95	Z	4.667	4.667	0	%100
75	M82A	X	0	0	0	%100
76	M82A	Z	3.488	3.488	0	%100
77	M91B	X	0	0	0	%100
78	M91B	Z	.872	.872	0	%100
79	MP5A	X	0	0	0	%100
80	MP5A	Z	2.814	2.814	0	%100
81	MP4A	X	0	0	0	%100
82	MP4A	Z	2.814	2.814	0	%100
83	MP3A	X	0	0	0	%100
84	MP3A	Z	2.814	2.814	0	%100
85	MP2A	X	0	0	0	%100
86	MP2A	Z	3.114	3.114	0	%100
87	MP1A	X	0	0	0	%100
88	MP1A	Z	3.114	3.114	0	%100
89	MP5C	X	0	0	0	%100
90	MP5C	Z	2.814	2.814	0	%100
91	MP4C	X	0	0	0	%100
92	MP4C	Z	2.814	2.814	0	%100
93	MP3C	X	0	0	0	%100
94	MP3C	Z	2.814	2.814	0	%100
95	MP2C	X	0	0	0	%100
96	MP2C	Z	3.114	3.114	0	%100
97	MP1C	X	0	0	0	%100
98	MP1C	Z	3.114	3.114	0	%100
99	MP5B	X	0	0	0	%100
100	MP5B	Z	2.814	2.814	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
101	MP4B	X	0	0	0	%100
102	MP4B	Z	2.814	2.814	0	%100
103	3	X	0	0	0	%100
104	3	Z	2.814	2.814	0	%100
105	MP2B	X	0	0	0	%100
106	MP2B	Z	3.114	3.114	0	%100
107	MP1B	X	0	0	0	%100
108	MP1B	Z	3.114	3.114	0	%100
109	OVP	X	0	0	0	%100
110	OVP	Z	2.31	2.31	0	%100
111	M108	X	0	0	0	%100
112	M108	Z	3.114	3.114	0	%100
113	M116	X	0	0	0	%100
114	M116	Z	.778	.778	0	%100
115	M124	X	0	0	0	%100
116	M124	Z	.778	.778	0	%100
117	M132	X	0	0	0	%100
118	M132	Z	.834	.834	0	%100
119	M133	X	0	0	0	%100
120	M133	Z	.834	.834	0	%100
121	M134	X	0	0	0	%100
122	M134	Z	3.336	3.336	0	%100
123	M139	X	0	0	0	%100
124	M139	Z	.831	.831	0	%100
125	M140	X	0	0	0	%100
126	M140	Z	.831	.831	0	%100
127	MP3B	X	0	0	0	%100
128	MP3B	Z	2.814	2.814	0	%100
129	M148	X	0	0	0	%100
130	M148	Z	.831	.831	0	%100
131	M149	X	0	0	0	%100
132	M149	Z	.831	.831	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	-1.76	-1.76	0	%100
4	M4	Z	3.049	3.049	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	M43	X	0	0	0	%100
8	M43	Z	0	0	0	%100
9	M46	X	0	0	0	%100
10	M46	Z	0	0	0	%100
11	M51B	X	-1.236	-1.236	0	%100
12	M51B	Z	2.141	2.141	0	%100
13	M52B	X	-1.236	-1.236	0	%100
14	M52B	Z	2.141	2.141	0	%100
15	M76	X	-2.203	-2.203	0	%100
16	M76	Z	3.815	3.815	0	%100
17	M77	X	-1.677	-1.677	0	%100
18	M77	Z	2.905	2.905	0	%100
19	M80	X	-1.75	-1.75	0	%100
20	M80	Z	3.031	3.031	0	%100
21	M84	X	-2.203	-2.203	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
22	M84	Z	3.815	3.815	0	%100
23	M85	X	-1.677	-1.677	0	%100
24	M85	Z	2.905	2.905	0	%100
25	M91	X	-1.75	-1.75	0	%100
26	M91	Z	3.031	3.031	0	%100
27	M52A	X	-.44	-.44	0	%100
28	M52A	Z	.762	.762	0	%100
29	M53	X	-1.074	-1.074	0	%100
30	M53	Z	1.861	1.861	0	%100
31	M54	X	-1.074	-1.074	0	%100
32	M54	Z	1.861	1.861	0	%100
33	M55	X	-1.679	-1.679	0	%100
34	M55	Z	2.909	2.909	0	%100
35	M58A	X	-1.236	-1.236	0	%100
36	M58A	Z	2.141	2.141	0	%100
37	M59A	X	0	0	0	%100
38	M59A	Z	0	0	0	%100
39	M63	X	-.551	-.551	0	%100
40	M63	Z	.954	.954	0	%100
41	M64	X	-1.677	-1.677	0	%100
42	M64	Z	2.905	2.905	0	%100
43	M66	X	-1.75	-1.75	0	%100
44	M66	Z	3.031	3.031	0	%100
45	M68	X	-.551	-.551	0	%100
46	M68	Z	.954	.954	0	%100
47	M69	X	0	0	0	%100
48	M69	Z	0	0	0	%100
49	M71	X	0	0	0	%100
50	M71	Z	0	0	0	%100
51	M76A	X	-.44	-.44	0	%100
52	M76A	Z	.762	.762	0	%100
53	M77A	X	-1.074	-1.074	0	%100
54	M77A	Z	1.861	1.861	0	%100
55	M78	X	-1.074	-1.074	0	%100
56	M78	Z	1.861	1.861	0	%100
57	M79A	X	-1.679	-1.679	0	%100
58	M79A	Z	2.909	2.909	0	%100
59	M82	X	0	0	0	%100
60	M82	Z	0	0	0	%100
61	M83A	X	-1.236	-1.236	0	%100
62	M83A	Z	2.141	2.141	0	%100
63	M87	X	-.551	-.551	0	%100
64	M87	Z	.954	.954	0	%100
65	M88A	X	0	0	0	%100
66	M88A	Z	0	0	0	%100
67	M90	X	0	0	0	%100
68	M90	Z	0	0	0	%100
69	M92A	X	-.551	-.551	0	%100
70	M92A	Z	.954	.954	0	%100
71	M93	X	-1.677	-1.677	0	%100
72	M93	Z	2.905	2.905	0	%100
73	M95	X	-1.75	-1.75	0	%100
74	M95	Z	3.031	3.031	0	%100
75	M82A	X	-1.308	-1.308	0	%100
76	M82A	Z	2.265	2.265	0	%100
77	M91B	X	-1.308	-1.308	0	%100
78	M91B	Z	2.265	2.265	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
79	MP5A	X	-1.407	-1.407	0	%100
80	MP5A	Z	2.437	2.437	0	%100
81	MP4A	X	-1.407	-1.407	0	%100
82	MP4A	Z	2.437	2.437	0	%100
83	MP3A	X	-1.407	-1.407	0	%100
84	MP3A	Z	2.437	2.437	0	%100
85	MP2A	X	-1.557	-1.557	0	%100
86	MP2A	Z	2.696	2.696	0	%100
87	MP1A	X	-1.557	-1.557	0	%100
88	MP1A	Z	2.696	2.696	0	%100
89	MP5C	X	-1.407	-1.407	0	%100
90	MP5C	Z	2.437	2.437	0	%100
91	MP4C	X	-1.407	-1.407	0	%100
92	MP4C	Z	2.437	2.437	0	%100
93	MP3C	X	-1.407	-1.407	0	%100
94	MP3C	Z	2.437	2.437	0	%100
95	MP2C	X	-1.557	-1.557	0	%100
96	MP2C	Z	2.696	2.696	0	%100
97	MP1C	X	-1.557	-1.557	0	%100
98	MP1C	Z	2.696	2.696	0	%100
99	MP5B	X	-1.407	-1.407	0	%100
100	MP5B	Z	2.437	2.437	0	%100
101	MP4B	X	-1.407	-1.407	0	%100
102	MP4B	Z	2.437	2.437	0	%100
103	3	X	-1.407	-1.407	0	%100
104	3	Z	2.437	2.437	0	%100
105	MP2B	X	-1.557	-1.557	0	%100
106	MP2B	Z	2.696	2.696	0	%100
107	MP1B	X	-1.557	-1.557	0	%100
108	MP1B	Z	2.696	2.696	0	%100
109	OVP	X	-1.155	-1.155	0	%100
110	OVP	Z	2	2	0	%100
111	M108	X	-1.168	-1.168	0	%100
112	M108	Z	2.022	2.022	0	%100
113	M116	X	-1.168	-1.168	0	%100
114	M116	Z	2.022	2.022	0	%100
115	M124	X	0	0	0	%100
116	M124	Z	0	0	0	%100
117	M132	X	0	0	0	%100
118	M132	Z	0	0	0	%100
119	M133	X	-1.251	-1.251	0	%100
120	M133	Z	2.167	2.167	0	%100
121	M134	X	-1.251	-1.251	0	%100
122	M134	Z	2.167	2.167	0	%100
123	M139	X	-.554	-.554	0	%100
124	M139	Z	.959	.959	0	%100
125	M140	X	-.554	-.554	0	%100
126	M140	Z	.959	.959	0	%100
127	MP3B	X	-1.407	-1.407	0	%100
128	MP3B	Z	2.437	2.437	0	%100
129	M148	X	-.554	-.554	0	%100
130	M148	Z	.959	.959	0	%100
131	M149	X	-.554	-.554	0	%100
132	M149	Z	.959	.959	0	%100

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

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

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	-.755	-.755	0	%100
2	M1	Z	.436	.436	0	%100
3	M4	X	-2.287	-2.287	0	%100
4	M4	Z	1.32	1.32	0	%100
5	M10	X	-.62	-.62	0	%100
6	M10	Z	.358	.358	0	%100
7	M43	X	-.62	-.62	0	%100
8	M43	Z	.358	.358	0	%100
9	M46	X	-.97	-.97	0	%100
10	M46	Z	.56	.56	0	%100
11	M51B	X	-.714	-.714	0	%100
12	M51B	Z	.412	.412	0	%100
13	M52B	X	-2.855	-2.855	0	%100
14	M52B	Z	1.648	1.648	0	%100
15	M76	X	-2.862	-2.862	0	%100
16	M76	Z	1.652	1.652	0	%100
17	M77	X	-.968	-.968	0	%100
18	M77	Z	.559	.559	0	%100
19	M80	X	-1.01	-1.01	0	%100
20	M80	Z	.583	.583	0	%100
21	M84	X	-2.862	-2.862	0	%100
22	M84	Z	1.652	1.652	0	%100
23	M85	X	-3.873	-3.873	0	%100
24	M85	Z	2.236	2.236	0	%100
25	M91	X	-4.042	-4.042	0	%100
26	M91	Z	2.334	2.334	0	%100
27	M52A	X	-2.287	-2.287	0	%100
28	M52A	Z	1.32	1.32	0	%100
29	M53	X	-.62	-.62	0	%100
30	M53	Z	.358	.358	0	%100
31	M54	X	-.62	-.62	0	%100
32	M54	Z	.358	.358	0	%100
33	M55	X	-.97	-.97	0	%100
34	M55	Z	.56	.56	0	%100
35	M58A	X	-2.855	-2.855	0	%100
36	M58A	Z	1.648	1.648	0	%100
37	M59A	X	-.714	-.714	0	%100
38	M59A	Z	.412	.412	0	%100
39	M63	X	-2.862	-2.862	0	%100
40	M63	Z	1.652	1.652	0	%100
41	M64	X	-3.873	-3.873	0	%100
42	M64	Z	2.236	2.236	0	%100
43	M66	X	-4.042	-4.042	0	%100
44	M66	Z	2.334	2.334	0	%100
45	M68	X	-2.862	-2.862	0	%100
46	M68	Z	1.652	1.652	0	%100
47	M69	X	-.968	-.968	0	%100
48	M69	Z	.559	.559	0	%100
49	M71	X	-1.01	-1.01	0	%100
50	M71	Z	.583	.583	0	%100
51	M76A	X	0	0	0	%100
52	M76A	Z	0	0	0	%100
53	M77A	X	-2.481	-2.481	0	%100
54	M77A	Z	1.433	1.433	0	%100
55	M78	X	-2.481	-2.481	0	%100
56	M78	Z	1.433	1.433	0	%100
57	M79A	X	-3.878	-3.878	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
58	M79A	Z	2.239	2.239	0	%100
59	M82	X	-.714	-.714	0	%100
60	M82	Z	.412	.412	0	%100
61	M83A	X	-.714	-.714	0	%100
62	M83A	Z	.412	.412	0	%100
63	M87	X	0	0	0	%100
64	M87	Z	0	0	0	%100
65	M88A	X	-.968	-.968	0	%100
66	M88A	Z	.559	.559	0	%100
67	M90	X	-1.01	-1.01	0	%100
68	M90	Z	.583	.583	0	%100
69	M92A	X	0	0	0	%100
70	M92A	Z	0	0	0	%100
71	M93	X	-.968	-.968	0	%100
72	M93	Z	.559	.559	0	%100
73	M95	X	-1.01	-1.01	0	%100
74	M95	Z	.583	.583	0	%100
75	M82A	X	-.755	-.755	0	%100
76	M82A	Z	.436	.436	0	%100
77	M91B	X	-3.021	-3.021	0	%100
78	M91B	Z	1.744	1.744	0	%100
79	MP5A	X	-2.437	-2.437	0	%100
80	MP5A	Z	1.407	1.407	0	%100
81	MP4A	X	-2.437	-2.437	0	%100
82	MP4A	Z	1.407	1.407	0	%100
83	MP3A	X	-2.437	-2.437	0	%100
84	MP3A	Z	1.407	1.407	0	%100
85	MP2A	X	-2.696	-2.696	0	%100
86	MP2A	Z	1.557	1.557	0	%100
87	MP1A	X	-2.696	-2.696	0	%100
88	MP1A	Z	1.557	1.557	0	%100
89	MP5C	X	-2.437	-2.437	0	%100
90	MP5C	Z	1.407	1.407	0	%100
91	MP4C	X	-2.437	-2.437	0	%100
92	MP4C	Z	1.407	1.407	0	%100
93	MP3C	X	-2.437	-2.437	0	%100
94	MP3C	Z	1.407	1.407	0	%100
95	MP2C	X	-2.696	-2.696	0	%100
96	MP2C	Z	1.557	1.557	0	%100
97	MP1C	X	-2.696	-2.696	0	%100
98	MP1C	Z	1.557	1.557	0	%100
99	MP5B	X	-2.437	-2.437	0	%100
100	MP5B	Z	1.407	1.407	0	%100
101	MP4B	X	-2.437	-2.437	0	%100
102	MP4B	Z	1.407	1.407	0	%100
103	3	X	-2.437	-2.437	0	%100
104	3	Z	1.407	1.407	0	%100
105	MP2B	X	-2.696	-2.696	0	%100
106	MP2B	Z	1.557	1.557	0	%100
107	MP1B	X	-2.696	-2.696	0	%100
108	MP1B	Z	1.557	1.557	0	%100
109	OVP	X	-2	-2	0	%100
110	OVP	Z	1.155	1.155	0	%100
111	M108	X	-.674	-.674	0	%100
112	M108	Z	.389	.389	0	%100
113	M116	X	-2.696	-2.696	0	%100
114	M116	Z	1.557	1.557	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
115	M124	X	-.674	-.674	0	%100
116	M124	Z	.389	.389	0	%100
117	M132	X	-.722	-.722	0	%100
118	M132	Z	.417	.417	0	%100
119	M133	X	-2.889	-2.889	0	%100
120	M133	Z	1.668	1.668	0	%100
121	M134	X	-.722	-.722	0	%100
122	M134	Z	.417	.417	0	%100
123	M139	X	-.72	-.72	0	%100
124	M139	Z	.415	.415	0	%100
125	M140	X	-.72	-.72	0	%100
126	M140	Z	.415	.415	0	%100
127	MP3B	X	-2.437	-2.437	0	%100
128	MP3B	Z	1.407	1.407	0	%100
129	M148	X	-.72	-.72	0	%100
130	M148	Z	.415	.415	0	%100
131	M149	X	-.72	-.72	0	%100
132	M149	Z	.415	.415	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	-2.616	-2.616	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	-.88	-.88	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	-2.149	-2.149	0	%100
6	M10	Z	0	0	0	%100
7	M43	X	-2.149	-2.149	0	%100
8	M43	Z	0	0	0	%100
9	M46	X	-3.359	-3.359	0	%100
10	M46	Z	0	0	0	%100
11	M51B	X	0	0	0	%100
12	M51B	Z	0	0	0	%100
13	M52B	X	-2.473	-2.473	0	%100
14	M52B	Z	0	0	0	%100
15	M76	X	-1.101	-1.101	0	%100
16	M76	Z	0	0	0	%100
17	M77	X	0	0	0	%100
18	M77	Z	0	0	0	%100
19	M80	X	0	0	0	%100
20	M80	Z	0	0	0	%100
21	M84	X	-1.101	-1.101	0	%100
22	M84	Z	0	0	0	%100
23	M85	X	-3.354	-3.354	0	%100
24	M85	Z	0	0	0	%100
25	M91	X	-3.5	-3.5	0	%100
26	M91	Z	0	0	0	%100
27	M52A	X	-3.521	-3.521	0	%100
28	M52A	Z	0	0	0	%100
29	M53	X	0	0	0	%100
30	M53	Z	0	0	0	%100
31	M54	X	0	0	0	%100
32	M54	Z	0	0	0	%100
33	M55	X	0	0	0	%100
34	M55	Z	0	0	0	%100
35	M58A	X	-2.473	-2.473	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
36	M58A	Z	0	0	0	%100
37	M59A	X	-2.473	-2.473	0	%100
38	M59A	Z	0	0	0	%100
39	M63	X	-4.406	-4.406	0	%100
40	M63	Z	0	0	0	%100
41	M64	X	-3.354	-3.354	0	%100
42	M64	Z	0	0	0	%100
43	M66	X	-3.5	-3.5	0	%100
44	M66	Z	0	0	0	%100
45	M68	X	-4.406	-4.406	0	%100
46	M68	Z	0	0	0	%100
47	M69	X	-3.354	-3.354	0	%100
48	M69	Z	0	0	0	%100
49	M71	X	-3.5	-3.5	0	%100
50	M71	Z	0	0	0	%100
51	M76A	X	-.88	-.88	0	%100
52	M76A	Z	0	0	0	%100
53	M77A	X	-2.149	-2.149	0	%100
54	M77A	Z	0	0	0	%100
55	M78	X	-2.149	-2.149	0	%100
56	M78	Z	0	0	0	%100
57	M79A	X	-3.359	-3.359	0	%100
58	M79A	Z	0	0	0	%100
59	M82	X	-2.473	-2.473	0	%100
60	M82	Z	0	0	0	%100
61	M83A	X	0	0	0	%100
62	M83A	Z	0	0	0	%100
63	M87	X	-1.101	-1.101	0	%100
64	M87	Z	0	0	0	%100
65	M88A	X	-3.354	-3.354	0	%100
66	M88A	Z	0	0	0	%100
67	M90	X	-3.5	-3.5	0	%100
68	M90	Z	0	0	0	%100
69	M92A	X	-1.101	-1.101	0	%100
70	M92A	Z	0	0	0	%100
71	M93	X	0	0	0	%100
72	M93	Z	0	0	0	%100
73	M95	X	0	0	0	%100
74	M95	Z	0	0	0	%100
75	M82A	X	0	0	0	%100
76	M82A	Z	0	0	0	%100
77	M91B	X	-2.616	-2.616	0	%100
78	M91B	Z	0	0	0	%100
79	MP5A	X	-2.814	-2.814	0	%100
80	MP5A	Z	0	0	0	%100
81	MP4A	X	-2.814	-2.814	0	%100
82	MP4A	Z	0	0	0	%100
83	MP3A	X	-2.814	-2.814	0	%100
84	MP3A	Z	0	0	0	%100
85	MP2A	X	-3.114	-3.114	0	%100
86	MP2A	Z	0	0	0	%100
87	MP1A	X	-3.114	-3.114	0	%100
88	MP1A	Z	0	0	0	%100
89	MP5C	X	-2.814	-2.814	0	%100
90	MP5C	Z	0	0	0	%100
91	MP4C	X	-2.814	-2.814	0	%100
92	MP4C	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
93	MP3C	X	-2.814	-2.814	0	%100
94	MP3C	Z	0	0	0	%100
95	MP2C	X	-3.114	-3.114	0	%100
96	MP2C	Z	0	0	0	%100
97	MP1C	X	-3.114	-3.114	0	%100
98	MP1C	Z	0	0	0	%100
99	MP5B	X	-2.814	-2.814	0	%100
100	MP5B	Z	0	0	0	%100
101	MP4B	X	-2.814	-2.814	0	%100
102	MP4B	Z	0	0	0	%100
103	3	X	-2.814	-2.814	0	%100
104	3	Z	0	0	0	%100
105	MP2B	X	-3.114	-3.114	0	%100
106	MP2B	Z	0	0	0	%100
107	MP1B	X	-3.114	-3.114	0	%100
108	MP1B	Z	0	0	0	%100
109	OVP	X	-2.31	-2.31	0	%100
110	OVP	Z	0	0	0	%100
111	M108	X	0	0	0	%100
112	M108	Z	0	0	0	%100
113	M116	X	-2.335	-2.335	0	%100
114	M116	Z	0	0	0	%100
115	M124	X	-2.335	-2.335	0	%100
116	M124	Z	0	0	0	%100
117	M132	X	-2.502	-2.502	0	%100
118	M132	Z	0	0	0	%100
119	M133	X	-2.502	-2.502	0	%100
120	M133	Z	0	0	0	%100
121	M134	X	0	0	0	%100
122	M134	Z	0	0	0	%100
123	M139	X	-.277	-.277	0	%100
124	M139	Z	0	0	0	%100
125	M140	X	-.277	-.277	0	%100
126	M140	Z	0	0	0	%100
127	MP3B	X	-2.814	-2.814	0	%100
128	MP3B	Z	0	0	0	%100
129	M148	X	-.277	-.277	0	%100
130	M148	Z	0	0	0	%100
131	M149	X	-.277	-.277	0	%100
132	M149	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	-3.021	-3.021	0	%100
2	M1	Z	-1.744	-1.744	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	-2.481	-2.481	0	%100
6	M10	Z	-1.433	-1.433	0	%100
7	M43	X	-2.481	-2.481	0	%100
8	M43	Z	-1.433	-1.433	0	%100
9	M46	X	-3.878	-3.878	0	%100
10	M46	Z	-2.239	-2.239	0	%100
11	M51B	X	-.714	-.714	0	%100
12	M51B	Z	-.412	-.412	0	%100
13	M52B	X	-.714	-.714	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
14	M52B	Z	-.412	-.412	0	%100
15	M76	X	0	0	0	%100
16	M76	Z	0	0	0	%100
17	M77	X	-.968	-.968	0	%100
18	M77	Z	-.559	-.559	0	%100
19	M80	X	-1.01	-1.01	0	%100
20	M80	Z	-.583	-.583	0	%100
21	M84	X	0	0	0	%100
22	M84	Z	0	0	0	%100
23	M85	X	-.968	-.968	0	%100
24	M85	Z	-.559	-.559	0	%100
25	M91	X	-1.01	-1.01	0	%100
26	M91	Z	-.583	-.583	0	%100
27	M52A	X	-2.287	-2.287	0	%100
28	M52A	Z	-1.32	-1.32	0	%100
29	M53	X	-.62	-.62	0	%100
30	M53	Z	-.358	-.358	0	%100
31	M54	X	-.62	-.62	0	%100
32	M54	Z	-.358	-.358	0	%100
33	M55	X	-.97	-.97	0	%100
34	M55	Z	-.56	-.56	0	%100
35	M58A	X	-.714	-.714	0	%100
36	M58A	Z	-.412	-.412	0	%100
37	M59A	X	-2.855	-2.855	0	%100
38	M59A	Z	-1.648	-1.648	0	%100
39	M63	X	-2.862	-2.862	0	%100
40	M63	Z	-1.652	-1.652	0	%100
41	M64	X	-.968	-.968	0	%100
42	M64	Z	-.559	-.559	0	%100
43	M66	X	-1.01	-1.01	0	%100
44	M66	Z	-.583	-.583	0	%100
45	M68	X	-2.862	-2.862	0	%100
46	M68	Z	-1.652	-1.652	0	%100
47	M69	X	-3.873	-3.873	0	%100
48	M69	Z	-2.236	-2.236	0	%100
49	M71	X	-4.042	-4.042	0	%100
50	M71	Z	-2.334	-2.334	0	%100
51	M76A	X	-2.287	-2.287	0	%100
52	M76A	Z	-1.32	-1.32	0	%100
53	M77A	X	-.62	-.62	0	%100
54	M77A	Z	-.358	-.358	0	%100
55	M78	X	-.62	-.62	0	%100
56	M78	Z	-.358	-.358	0	%100
57	M79A	X	-.97	-.97	0	%100
58	M79A	Z	-.56	-.56	0	%100
59	M82	X	-2.855	-2.855	0	%100
60	M82	Z	-1.648	-1.648	0	%100
61	M83A	X	-.714	-.714	0	%100
62	M83A	Z	-.412	-.412	0	%100
63	M87	X	-2.862	-2.862	0	%100
64	M87	Z	-1.652	-1.652	0	%100
65	M88A	X	-3.873	-3.873	0	%100
66	M88A	Z	-2.236	-2.236	0	%100
67	M90	X	-4.042	-4.042	0	%100
68	M90	Z	-2.334	-2.334	0	%100
69	M92A	X	-2.862	-2.862	0	%100
70	M92A	Z	-1.652	-1.652	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
71	M93	X	-.968	-.968	0	%100
72	M93	Z	-.559	-.559	0	%100
73	M95	X	-1.01	-1.01	0	%100
74	M95	Z	-.583	-.583	0	%100
75	M82A	X	-.755	-.755	0	%100
76	M82A	Z	-.436	-.436	0	%100
77	M91B	X	-.755	-.755	0	%100
78	M91B	Z	-.436	-.436	0	%100
79	MP5A	X	-2.437	-2.437	0	%100
80	MP5A	Z	-1.407	-1.407	0	%100
81	MP4A	X	-2.437	-2.437	0	%100
82	MP4A	Z	-1.407	-1.407	0	%100
83	MP3A	X	-2.437	-2.437	0	%100
84	MP3A	Z	-1.407	-1.407	0	%100
85	MP2A	X	-2.696	-2.696	0	%100
86	MP2A	Z	-1.557	-1.557	0	%100
87	MP1A	X	-2.696	-2.696	0	%100
88	MP1A	Z	-1.557	-1.557	0	%100
89	MP5C	X	-2.437	-2.437	0	%100
90	MP5C	Z	-1.407	-1.407	0	%100
91	MP4C	X	-2.437	-2.437	0	%100
92	MP4C	Z	-1.407	-1.407	0	%100
93	MP3C	X	-2.437	-2.437	0	%100
94	MP3C	Z	-1.407	-1.407	0	%100
95	MP2C	X	-2.696	-2.696	0	%100
96	MP2C	Z	-1.557	-1.557	0	%100
97	MP1C	X	-2.696	-2.696	0	%100
98	MP1C	Z	-1.557	-1.557	0	%100
99	MP5B	X	-2.437	-2.437	0	%100
100	MP5B	Z	-1.407	-1.407	0	%100
101	MP4B	X	-2.437	-2.437	0	%100
102	MP4B	Z	-1.407	-1.407	0	%100
103	3	X	-2.437	-2.437	0	%100
104	3	Z	-1.407	-1.407	0	%100
105	MP2B	X	-2.696	-2.696	0	%100
106	MP2B	Z	-1.557	-1.557	0	%100
107	MP1B	X	-2.696	-2.696	0	%100
108	MP1B	Z	-1.557	-1.557	0	%100
109	OVP	X	-2	-2	0	%100
110	OVP	Z	-1.155	-1.155	0	%100
111	M108	X	-.674	-.674	0	%100
112	M108	Z	-.389	-.389	0	%100
113	M116	X	-.674	-.674	0	%100
114	M116	Z	-.389	-.389	0	%100
115	M124	X	-2.696	-2.696	0	%100
116	M124	Z	-1.557	-1.557	0	%100
117	M132	X	-2.889	-2.889	0	%100
118	M132	Z	-1.668	-1.668	0	%100
119	M133	X	-.722	-.722	0	%100
120	M133	Z	-.417	-.417	0	%100
121	M134	X	-.722	-.722	0	%100
122	M134	Z	-.417	-.417	0	%100
123	M139	X	0	0	0	%100
124	M139	Z	0	0	0	%100
125	M140	X	0	0	0	%100
126	M140	Z	0	0	0	%100
127	MP3B	X	-2.437	-2.437	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
128	MP3B	Z	-1.407	-1.407	0	%100
129	M148	X	0	0	0	%100
130	M148	Z	0	0	0	%100
131	M149	X	0	0	0	%100
132	M149	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	-1.308	-1.308	0	%100
2	M1	Z	-2.265	-2.265	0	%100
3	M4	X	-.44	-.44	0	%100
4	M4	Z	-.762	-.762	0	%100
5	M10	X	-1.074	-1.074	0	%100
6	M10	Z	-1.861	-1.861	0	%100
7	M43	X	-1.074	-1.074	0	%100
8	M43	Z	-1.861	-1.861	0	%100
9	M46	X	-1.679	-1.679	0	%100
10	M46	Z	-2.909	-2.909	0	%100
11	M51B	X	-1.236	-1.236	0	%100
12	M51B	Z	-2.141	-2.141	0	%100
13	M52B	X	0	0	0	%100
14	M52B	Z	0	0	0	%100
15	M76	X	-.551	-.551	0	%100
16	M76	Z	-.954	-.954	0	%100
17	M77	X	-1.677	-1.677	0	%100
18	M77	Z	-2.905	-2.905	0	%100
19	M80	X	-1.75	-1.75	0	%100
20	M80	Z	-3.031	-3.031	0	%100
21	M84	X	-.551	-.551	0	%100
22	M84	Z	-.954	-.954	0	%100
23	M85	X	0	0	0	%100
24	M85	Z	0	0	0	%100
25	M91	X	0	0	0	%100
26	M91	Z	0	0	0	%100
27	M52A	X	-.44	-.44	0	%100
28	M52A	Z	-.762	-.762	0	%100
29	M53	X	-1.074	-1.074	0	%100
30	M53	Z	-1.861	-1.861	0	%100
31	M54	X	-1.074	-1.074	0	%100
32	M54	Z	-1.861	-1.861	0	%100
33	M55	X	-1.679	-1.679	0	%100
34	M55	Z	-2.909	-2.909	0	%100
35	M58A	X	0	0	0	%100
36	M58A	Z	0	0	0	%100
37	M59A	X	-1.236	-1.236	0	%100
38	M59A	Z	-2.141	-2.141	0	%100
39	M63	X	-.551	-.551	0	%100
40	M63	Z	-.954	-.954	0	%100
41	M64	X	0	0	0	%100
42	M64	Z	0	0	0	%100
43	M66	X	0	0	0	%100
44	M66	Z	0	0	0	%100
45	M68	X	-.551	-.551	0	%100
46	M68	Z	-.954	-.954	0	%100
47	M69	X	-1.677	-1.677	0	%100
48	M69	Z	-2.905	-2.905	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
49	M71	X	-1.75	-1.75	0	%100
50	M71	Z	-3.031	-3.031	0	%100
51	M76A	X	-1.76	-1.76	0	%100
52	M76A	Z	-3.049	-3.049	0	%100
53	M77A	X	0	0	0	%100
54	M77A	Z	0	0	0	%100
55	M78	X	0	0	0	%100
56	M78	Z	0	0	0	%100
57	M79A	X	0	0	0	%100
58	M79A	Z	0	0	0	%100
59	M82	X	-1.236	-1.236	0	%100
60	M82	Z	-2.141	-2.141	0	%100
61	M83A	X	-1.236	-1.236	0	%100
62	M83A	Z	-2.141	-2.141	0	%100
63	M87	X	-2.203	-2.203	0	%100
64	M87	Z	-3.815	-3.815	0	%100
65	M88A	X	-1.677	-1.677	0	%100
66	M88A	Z	-2.905	-2.905	0	%100
67	M90	X	-1.75	-1.75	0	%100
68	M90	Z	-3.031	-3.031	0	%100
69	M92A	X	-2.203	-2.203	0	%100
70	M92A	Z	-3.815	-3.815	0	%100
71	M93	X	-1.677	-1.677	0	%100
72	M93	Z	-2.905	-2.905	0	%100
73	M95	X	-1.75	-1.75	0	%100
74	M95	Z	-3.031	-3.031	0	%100
75	M82A	X	-1.308	-1.308	0	%100
76	M82A	Z	-2.265	-2.265	0	%100
77	M91B	X	0	0	0	%100
78	M91B	Z	0	0	0	%100
79	MP5A	X	-1.407	-1.407	0	%100
80	MP5A	Z	-2.437	-2.437	0	%100
81	MP4A	X	-1.407	-1.407	0	%100
82	MP4A	Z	-2.437	-2.437	0	%100
83	MP3A	X	-1.407	-1.407	0	%100
84	MP3A	Z	-2.437	-2.437	0	%100
85	MP2A	X	-1.557	-1.557	0	%100
86	MP2A	Z	-2.696	-2.696	0	%100
87	MP1A	X	-1.557	-1.557	0	%100
88	MP1A	Z	-2.696	-2.696	0	%100
89	MP5C	X	-1.407	-1.407	0	%100
90	MP5C	Z	-2.437	-2.437	0	%100
91	MP4C	X	-1.407	-1.407	0	%100
92	MP4C	Z	-2.437	-2.437	0	%100
93	MP3C	X	-1.407	-1.407	0	%100
94	MP3C	Z	-2.437	-2.437	0	%100
95	MP2C	X	-1.557	-1.557	0	%100
96	MP2C	Z	-2.696	-2.696	0	%100
97	MP1C	X	-1.557	-1.557	0	%100
98	MP1C	Z	-2.696	-2.696	0	%100
99	MP5B	X	-1.407	-1.407	0	%100
100	MP5B	Z	-2.437	-2.437	0	%100
101	MP4B	X	-1.407	-1.407	0	%100
102	MP4B	Z	-2.437	-2.437	0	%100
103	3	X	-1.407	-1.407	0	%100
104	3	Z	-2.437	-2.437	0	%100
105	MP2B	X	-1.557	-1.557	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
106	MP2B	Z	-2.696	-2.696	0	%100
107	MP1B	X	-1.557	-1.557	0	%100
108	MP1B	Z	-2.696	-2.696	0	%100
109	OVP	X	-1.155	-1.155	0	%100
110	OVP	Z	-2	-2	0	%100
111	M108	X	-1.168	-1.168	0	%100
112	M108	Z	-2.022	-2.022	0	%100
113	M116	X	0	0	0	%100
114	M116	Z	0	0	0	%100
115	M124	X	-1.168	-1.168	0	%100
116	M124	Z	-2.022	-2.022	0	%100
117	M132	X	-1.251	-1.251	0	%100
118	M132	Z	-2.167	-2.167	0	%100
119	M133	X	0	0	0	%100
120	M133	Z	0	0	0	%100
121	M134	X	-1.251	-1.251	0	%100
122	M134	Z	-2.167	-2.167	0	%100
123	M139	X	-.138	-.138	0	%100
124	M139	Z	-.24	-.24	0	%100
125	M140	X	-.138	-.138	0	%100
126	M140	Z	-.24	-.24	0	%100
127	MP3B	X	-1.407	-1.407	0	%100
128	MP3B	Z	-2.437	-2.437	0	%100
129	M148	X	-.138	-.138	0	%100
130	M148	Z	-.24	-.24	0	%100
131	M149	X	-.138	-.138	0	%100
132	M149	Z	-.24	-.24	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	-.189	-.189	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	-.575	-.575	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	-.162	-.162	0	%100
7	M43	X	0	0	0	%100
8	M43	Z	-.162	-.162	0	%100
9	M46	X	0	0	0	%100
10	M46	Z	-.323	-.323	0	%100
11	M51B	X	0	0	0	%100
12	M51B	Z	-.718	-.718	0	%100
13	M52B	X	0	0	0	%100
14	M52B	Z	-.18	-.18	0	%100
15	M76	X	0	0	0	%100
16	M76	Z	-.97	-.97	0	%100
17	M77	X	0	0	0	%100
18	M77	Z	-1.318	-1.318	0	%100
19	M80	X	0	0	0	%100
20	M80	Z	-1.388	-1.388	0	%100
21	M84	X	0	0	0	%100
22	M84	Z	-.97	-.97	0	%100
23	M85	X	0	0	0	%100
24	M85	Z	-.329	-.329	0	%100
25	M91	X	0	0	0	%100
26	M91	Z	-.347	-.347	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
27	M52A	X	0	0	0	%100
28	M52A	Z	0	0	0	%100
29	M53	X	0	0	0	%100
30	M53	Z	-.649	-.649	0	%100
31	M54	X	0	0	0	%100
32	M54	Z	-.649	-.649	0	%100
33	M55	X	0	0	0	%100
34	M55	Z	-1.294	-1.294	0	%100
35	M58A	X	0	0	0	%100
36	M58A	Z	-.18	-.18	0	%100
37	M59A	X	0	0	0	%100
38	M59A	Z	-.18	-.18	0	%100
39	M63	X	0	0	0	%100
40	M63	Z	0	0	0	%100
41	M64	X	0	0	0	%100
42	M64	Z	-.329	-.329	0	%100
43	M66	X	0	0	0	%100
44	M66	Z	-.347	-.347	0	%100
45	M68	X	0	0	0	%100
46	M68	Z	0	0	0	%100
47	M69	X	0	0	0	%100
48	M69	Z	-.329	-.329	0	%100
49	M71	X	0	0	0	%100
50	M71	Z	-.347	-.347	0	%100
51	M76A	X	0	0	0	%100
52	M76A	Z	-.575	-.575	0	%100
53	M77A	X	0	0	0	%100
54	M77A	Z	-.162	-.162	0	%100
55	M78	X	0	0	0	%100
56	M78	Z	-.162	-.162	0	%100
57	M79A	X	0	0	0	%100
58	M79A	Z	-.323	-.323	0	%100
59	M82	X	0	0	0	%100
60	M82	Z	-.18	-.18	0	%100
61	M83A	X	0	0	0	%100
62	M83A	Z	-.718	-.718	0	%100
63	M87	X	0	0	0	%100
64	M87	Z	-.97	-.97	0	%100
65	M88A	X	0	0	0	%100
66	M88A	Z	-.329	-.329	0	%100
67	M90	X	0	0	0	%100
68	M90	Z	-.347	-.347	0	%100
69	M92A	X	0	0	0	%100
70	M92A	Z	-.97	-.97	0	%100
71	M93	X	0	0	0	%100
72	M93	Z	-1.318	-1.318	0	%100
73	M95	X	0	0	0	%100
74	M95	Z	-1.388	-1.388	0	%100
75	M82A	X	0	0	0	%100
76	M82A	Z	-.755	-.755	0	%100
77	M91B	X	0	0	0	%100
78	M91B	Z	-.189	-.189	0	%100
79	MP5A	X	0	0	0	%100
80	MP5A	Z	-.512	-.512	0	%100
81	MP4A	X	0	0	0	%100
82	MP4A	Z	-.512	-.512	0	%100
83	MP3A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
84	MP3A	Z	-.512	-.512	0	%100
85	MP2A	X	0	0	0	%100
86	MP2A	Z	-.62	-.62	0	%100
87	MP1A	X	0	0	0	%100
88	MP1A	Z	-.62	-.62	0	%100
89	MP5C	X	0	0	0	%100
90	MP5C	Z	-.512	-.512	0	%100
91	MP4C	X	0	0	0	%100
92	MP4C	Z	-.512	-.512	0	%100
93	MP3C	X	0	0	0	%100
94	MP3C	Z	-.512	-.512	0	%100
95	MP2C	X	0	0	0	%100
96	MP2C	Z	-.62	-.62	0	%100
97	MP1C	X	0	0	0	%100
98	MP1C	Z	-.62	-.62	0	%100
99	MP5B	X	0	0	0	%100
100	MP5B	Z	-.512	-.512	0	%100
101	MP4B	X	0	0	0	%100
102	MP4B	Z	-.512	-.512	0	%100
103	3	X	0	0	0	%100
104	3	Z	-.512	-.512	0	%100
105	MP2B	X	0	0	0	%100
106	MP2B	Z	-.62	-.62	0	%100
107	MP1B	X	0	0	0	%100
108	MP1B	Z	-.62	-.62	0	%100
109	OVP	X	0	0	0	%100
110	OVP	Z	-.419	-.419	0	%100
111	M108	X	0	0	0	%100
112	M108	Z	-.62	-.62	0	%100
113	M116	X	0	0	0	%100
114	M116	Z	-.155	-.155	0	%100
115	M124	X	0	0	0	%100
116	M124	Z	-.155	-.155	0	%100
117	M132	X	0	0	0	%100
118	M132	Z	-.203	-.203	0	%100
119	M133	X	0	0	0	%100
120	M133	Z	-.203	-.203	0	%100
121	M134	X	0	0	0	%100
122	M134	Z	-.811	-.811	0	%100
123	M139	X	0	0	0	%100
124	M139	Z	-.07	-.07	0	%100
125	M140	X	0	0	0	%100
126	M140	Z	-.07	-.07	0	%100
127	MP3B	X	0	0	0	%100
128	MP3B	Z	-.512	-.512	0	%100
129	M148	X	0	0	0	%100
130	M148	Z	-.07	-.07	0	%100
131	M149	X	0	0	0	%100
132	M149	Z	-.07	-.07	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	.383	.383	0	%100
4	M4	Z	-.664	-.664	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	M43	X	0	0	0	%100
8	M43	Z	0	0	0	%100
9	M46	X	0	0	0	%100
10	M46	Z	0	0	0	%100
11	M51B	X	.269	.269	0	%100
12	M51B	Z	-.467	-.467	0	%100
13	M52B	X	.269	.269	0	%100
14	M52B	Z	-.467	-.467	0	%100
15	M76	X	.647	.647	0	%100
16	M76	Z	-1.12	-1.12	0	%100
17	M77	X	.494	.494	0	%100
18	M77	Z	-.856	-.856	0	%100
19	M80	X	.52	.52	0	%100
20	M80	Z	-.902	-.902	0	%100
21	M84	X	.647	.647	0	%100
22	M84	Z	-1.12	-1.12	0	%100
23	M85	X	.494	.494	0	%100
24	M85	Z	-.856	-.856	0	%100
25	M91	X	.52	.52	0	%100
26	M91	Z	-.902	-.902	0	%100
27	M52A	X	.096	.096	0	%100
28	M52A	Z	-.166	-.166	0	%100
29	M53	X	.243	.243	0	%100
30	M53	Z	-.421	-.421	0	%100
31	M54	X	.243	.243	0	%100
32	M54	Z	-.421	-.421	0	%100
33	M55	X	.485	.485	0	%100
34	M55	Z	-.84	-.84	0	%100
35	M58A	X	.269	.269	0	%100
36	M58A	Z	-.467	-.467	0	%100
37	M59A	X	0	0	0	%100
38	M59A	Z	0	0	0	%100
39	M63	X	.162	.162	0	%100
40	M63	Z	-.28	-.28	0	%100
41	M64	X	.494	.494	0	%100
42	M64	Z	-.856	-.856	0	%100
43	M66	X	.52	.52	0	%100
44	M66	Z	-.902	-.902	0	%100
45	M68	X	.162	.162	0	%100
46	M68	Z	-.28	-.28	0	%100
47	M69	X	0	0	0	%100
48	M69	Z	0	0	0	%100
49	M71	X	0	0	0	%100
50	M71	Z	0	0	0	%100
51	M76A	X	.096	.096	0	%100
52	M76A	Z	-.166	-.166	0	%100
53	M77A	X	.243	.243	0	%100
54	M77A	Z	-.421	-.421	0	%100
55	M78	X	.243	.243	0	%100
56	M78	Z	-.421	-.421	0	%100
57	M79A	X	.485	.485	0	%100
58	M79A	Z	-.84	-.84	0	%100
59	M82	X	0	0	0	%100
60	M82	Z	0	0	0	%100
61	M83A	X	.269	.269	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
62	M83A	Z	-.467	-.467	0	%100
63	M87	X	.162	.162	0	%100
64	M87	Z	-.28	-.28	0	%100
65	M88A	X	0	0	0	%100
66	M88A	Z	0	0	0	%100
67	M90	X	0	0	0	%100
68	M90	Z	0	0	0	%100
69	M92A	X	.162	.162	0	%100
70	M92A	Z	-.28	-.28	0	%100
71	M93	X	.494	.494	0	%100
72	M93	Z	-.856	-.856	0	%100
73	M95	X	.52	.52	0	%100
74	M95	Z	-.902	-.902	0	%100
75	M82A	X	.283	.283	0	%100
76	M82A	Z	-.49	-.49	0	%100
77	M91B	X	.283	.283	0	%100
78	M91B	Z	-.49	-.49	0	%100
79	MP5A	X	.256	.256	0	%100
80	MP5A	Z	-.444	-.444	0	%100
81	MP4A	X	.256	.256	0	%100
82	MP4A	Z	-.444	-.444	0	%100
83	MP3A	X	.256	.256	0	%100
84	MP3A	Z	-.444	-.444	0	%100
85	MP2A	X	.31	.31	0	%100
86	MP2A	Z	-.537	-.537	0	%100
87	MP1A	X	.31	.31	0	%100
88	MP1A	Z	-.537	-.537	0	%100
89	MP5C	X	.256	.256	0	%100
90	MP5C	Z	-.444	-.444	0	%100
91	MP4C	X	.256	.256	0	%100
92	MP4C	Z	-.444	-.444	0	%100
93	MP3C	X	.256	.256	0	%100
94	MP3C	Z	-.444	-.444	0	%100
95	MP2C	X	.31	.31	0	%100
96	MP2C	Z	-.537	-.537	0	%100
97	MP1C	X	.31	.31	0	%100
98	MP1C	Z	-.537	-.537	0	%100
99	MP5B	X	.256	.256	0	%100
100	MP5B	Z	-.444	-.444	0	%100
101	MP4B	X	.256	.256	0	%100
102	MP4B	Z	-.444	-.444	0	%100
103	3	X	.256	.256	0	%100
104	3	Z	-.444	-.444	0	%100
105	MP2B	X	.31	.31	0	%100
106	MP2B	Z	-.537	-.537	0	%100
107	MP1B	X	.31	.31	0	%100
108	MP1B	Z	-.537	-.537	0	%100
109	OVP	X	.209	.209	0	%100
110	OVP	Z	-.363	-.363	0	%100
111	M108	X	.232	.232	0	%100
112	M108	Z	-.403	-.403	0	%100
113	M116	X	.232	.232	0	%100
114	M116	Z	-.403	-.403	0	%100
115	M124	X	0	0	0	%100
116	M124	Z	0	0	0	%100
117	M132	X	0	0	0	%100
118	M132	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
119	M133	X	.304	.304	0	%100
120	M133	Z	-.527	-.527	0	%100
121	M134	X	.304	.304	0	%100
122	M134	Z	-.527	-.527	0	%100
123	M139	X	.047	.047	0	%100
124	M139	Z	-.081	-.081	0	%100
125	M140	X	.047	.047	0	%100
126	M140	Z	-.081	-.081	0	%100
127	MP3B	X	.256	.256	0	%100
128	MP3B	Z	-.444	-.444	0	%100
129	M148	X	.047	.047	0	%100
130	M148	Z	-.081	-.081	0	%100
131	M149	X	.047	.047	0	%100
132	M149	Z	-.081	-.081	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	.163	.163	0	%100
2	M1	Z	-.094	-.094	0	%100
3	M4	X	.498	.498	0	%100
4	M4	Z	-.287	-.287	0	%100
5	M10	X	.14	.14	0	%100
6	M10	Z	-.081	-.081	0	%100
7	M43	X	.14	.14	0	%100
8	M43	Z	-.081	-.081	0	%100
9	M46	X	.28	.28	0	%100
10	M46	Z	-.162	-.162	0	%100
11	M51B	X	.156	.156	0	%100
12	M51B	Z	-.09	-.09	0	%100
13	M52B	X	.622	.622	0	%100
14	M52B	Z	-.359	-.359	0	%100
15	M76	X	.84	.84	0	%100
16	M76	Z	-.485	-.485	0	%100
17	M77	X	.285	.285	0	%100
18	M77	Z	-.165	-.165	0	%100
19	M80	X	.301	.301	0	%100
20	M80	Z	-.173	-.173	0	%100
21	M84	X	.84	.84	0	%100
22	M84	Z	-.485	-.485	0	%100
23	M85	X	1.141	1.141	0	%100
24	M85	Z	-.659	-.659	0	%100
25	M91	X	1.202	1.202	0	%100
26	M91	Z	-.694	-.694	0	%100
27	M52A	X	.498	.498	0	%100
28	M52A	Z	-.287	-.287	0	%100
29	M53	X	.14	.14	0	%100
30	M53	Z	-.081	-.081	0	%100
31	M54	X	.14	.14	0	%100
32	M54	Z	-.081	-.081	0	%100
33	M55	X	.28	.28	0	%100
34	M55	Z	-.162	-.162	0	%100
35	M58A	X	.622	.622	0	%100
36	M58A	Z	-.359	-.359	0	%100
37	M59A	X	.156	.156	0	%100
38	M59A	Z	-.09	-.09	0	%100
39	M63	X	.84	.84	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
40	M63	Z	-.485	-.485	0	%100
41	M64	X	1.141	1.141	0	%100
42	M64	Z	-.659	-.659	0	%100
43	M66	X	1.202	1.202	0	%100
44	M66	Z	-.694	-.694	0	%100
45	M68	X	.84	.84	0	%100
46	M68	Z	-.485	-.485	0	%100
47	M69	X	.285	.285	0	%100
48	M69	Z	-.165	-.165	0	%100
49	M71	X	.301	.301	0	%100
50	M71	Z	-.173	-.173	0	%100
51	M76A	X	0	0	0	%100
52	M76A	Z	0	0	0	%100
53	M77A	X	.562	.562	0	%100
54	M77A	Z	-.324	-.324	0	%100
55	M78	X	.562	.562	0	%100
56	M78	Z	-.324	-.324	0	%100
57	M79A	X	1.12	1.12	0	%100
58	M79A	Z	-.647	-.647	0	%100
59	M82	X	.156	.156	0	%100
60	M82	Z	-.09	-.09	0	%100
61	M83A	X	.156	.156	0	%100
62	M83A	Z	-.09	-.09	0	%100
63	M87	X	0	0	0	%100
64	M87	Z	0	0	0	%100
65	M88A	X	.285	.285	0	%100
66	M88A	Z	-.165	-.165	0	%100
67	M90	X	.301	.301	0	%100
68	M90	Z	-.173	-.173	0	%100
69	M92A	X	0	0	0	%100
70	M92A	Z	0	0	0	%100
71	M93	X	.285	.285	0	%100
72	M93	Z	-.165	-.165	0	%100
73	M95	X	.301	.301	0	%100
74	M95	Z	-.173	-.173	0	%100
75	M82A	X	.163	.163	0	%100
76	M82A	Z	-.094	-.094	0	%100
77	M91B	X	.654	.654	0	%100
78	M91B	Z	-.377	-.377	0	%100
79	MP5A	X	.444	.444	0	%100
80	MP5A	Z	-.256	-.256	0	%100
81	MP4A	X	.444	.444	0	%100
82	MP4A	Z	-.256	-.256	0	%100
83	MP3A	X	.444	.444	0	%100
84	MP3A	Z	-.256	-.256	0	%100
85	MP2A	X	.537	.537	0	%100
86	MP2A	Z	-.31	-.31	0	%100
87	MP1A	X	.537	.537	0	%100
88	MP1A	Z	-.31	-.31	0	%100
89	MP5C	X	.444	.444	0	%100
90	MP5C	Z	-.256	-.256	0	%100
91	MP4C	X	.444	.444	0	%100
92	MP4C	Z	-.256	-.256	0	%100
93	MP3C	X	.444	.444	0	%100
94	MP3C	Z	-.256	-.256	0	%100
95	MP2C	X	.537	.537	0	%100
96	MP2C	Z	-.31	-.31	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
97	MP1C	X	.537	.537	0	%100
98	MP1C	Z	-.31	-.31	0	%100
99	MP5B	X	.444	.444	0	%100
100	MP5B	Z	-.256	-.256	0	%100
101	MP4B	X	.444	.444	0	%100
102	MP4B	Z	-.256	-.256	0	%100
103	3	X	.444	.444	0	%100
104	3	Z	-.256	-.256	0	%100
105	MP2B	X	.537	.537	0	%100
106	MP2B	Z	-.31	-.31	0	%100
107	MP1B	X	.537	.537	0	%100
108	MP1B	Z	-.31	-.31	0	%100
109	OVP	X	.363	.363	0	%100
110	OVP	Z	-.209	-.209	0	%100
111	M108	X	.134	.134	0	%100
112	M108	Z	-.077	-.077	0	%100
113	M116	X	.537	.537	0	%100
114	M116	Z	-.31	-.31	0	%100
115	M124	X	.134	.134	0	%100
116	M124	Z	-.077	-.077	0	%100
117	M132	X	.176	.176	0	%100
118	M132	Z	-.101	-.101	0	%100
119	M133	X	.702	.702	0	%100
120	M133	Z	-.405	-.405	0	%100
121	M134	X	.176	.176	0	%100
122	M134	Z	-.101	-.101	0	%100
123	M139	X	.061	.061	0	%100
124	M139	Z	-.035	-.035	0	%100
125	M140	X	.061	.061	0	%100
126	M140	Z	-.035	-.035	0	%100
127	MP3B	X	.444	.444	0	%100
128	MP3B	Z	-.256	-.256	0	%100
129	M148	X	.061	.061	0	%100
130	M148	Z	-.035	-.035	0	%100
131	M149	X	.061	.061	0	%100
132	M149	Z	-.035	-.035	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	.566	.566	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	.192	.192	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	.486	.486	0	%100
6	M10	Z	0	0	0	%100
7	M43	X	.486	.486	0	%100
8	M43	Z	0	0	0	%100
9	M46	X	.97	.97	0	%100
10	M46	Z	0	0	0	%100
11	M51B	X	0	0	0	%100
12	M51B	Z	0	0	0	%100
13	M52B	X	.539	.539	0	%100
14	M52B	Z	0	0	0	%100
15	M76	X	.323	.323	0	%100
16	M76	Z	0	0	0	%100
17	M77	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
18	M77	Z	0	0	0	%100
19	M80	X	0	0	0	%100
20	M80	Z	0	0	0	%100
21	M84	X	.323	.323	0	%100
22	M84	Z	0	0	0	%100
23	M85	X	.988	.988	0	%100
24	M85	Z	0	0	0	%100
25	M91	X	1.041	1.041	0	%100
26	M91	Z	0	0	0	%100
27	M52A	X	.767	.767	0	%100
28	M52A	Z	0	0	0	%100
29	M53	X	0	0	0	%100
30	M53	Z	0	0	0	%100
31	M54	X	0	0	0	%100
32	M54	Z	0	0	0	%100
33	M55	X	0	0	0	%100
34	M55	Z	0	0	0	%100
35	M58A	X	.539	.539	0	%100
36	M58A	Z	0	0	0	%100
37	M59A	X	.539	.539	0	%100
38	M59A	Z	0	0	0	%100
39	M63	X	1.294	1.294	0	%100
40	M63	Z	0	0	0	%100
41	M64	X	.988	.988	0	%100
42	M64	Z	0	0	0	%100
43	M66	X	1.041	1.041	0	%100
44	M66	Z	0	0	0	%100
45	M68	X	1.294	1.294	0	%100
46	M68	Z	0	0	0	%100
47	M69	X	.988	.988	0	%100
48	M69	Z	0	0	0	%100
49	M71	X	1.041	1.041	0	%100
50	M71	Z	0	0	0	%100
51	M76A	X	.192	.192	0	%100
52	M76A	Z	0	0	0	%100
53	M77A	X	.486	.486	0	%100
54	M77A	Z	0	0	0	%100
55	M78	X	.486	.486	0	%100
56	M78	Z	0	0	0	%100
57	M79A	X	.97	.97	0	%100
58	M79A	Z	0	0	0	%100
59	M82	X	.539	.539	0	%100
60	M82	Z	0	0	0	%100
61	M83A	X	0	0	0	%100
62	M83A	Z	0	0	0	%100
63	M87	X	.323	.323	0	%100
64	M87	Z	0	0	0	%100
65	M88A	X	.988	.988	0	%100
66	M88A	Z	0	0	0	%100
67	M90	X	1.041	1.041	0	%100
68	M90	Z	0	0	0	%100
69	M92A	X	.323	.323	0	%100
70	M92A	Z	0	0	0	%100
71	M93	X	0	0	0	%100
72	M93	Z	0	0	0	%100
73	M95	X	0	0	0	%100
74	M95	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
75	M82A	X	0	0	0	%100
76	M82A	Z	0	0	0	%100
77	M91B	X	.566	.566	0	%100
78	M91B	Z	0	0	0	%100
79	MP5A	X	.512	.512	0	%100
80	MP5A	Z	0	0	0	%100
81	MP4A	X	.512	.512	0	%100
82	MP4A	Z	0	0	0	%100
83	MP3A	X	.512	.512	0	%100
84	MP3A	Z	0	0	0	%100
85	MP2A	X	.62	.62	0	%100
86	MP2A	Z	0	0	0	%100
87	MP1A	X	.62	.62	0	%100
88	MP1A	Z	0	0	0	%100
89	MP5C	X	.512	.512	0	%100
90	MP5C	Z	0	0	0	%100
91	MP4C	X	.512	.512	0	%100
92	MP4C	Z	0	0	0	%100
93	MP3C	X	.512	.512	0	%100
94	MP3C	Z	0	0	0	%100
95	MP2C	X	.62	.62	0	%100
96	MP2C	Z	0	0	0	%100
97	MP1C	X	.62	.62	0	%100
98	MP1C	Z	0	0	0	%100
99	MP5B	X	.512	.512	0	%100
100	MP5B	Z	0	0	0	%100
101	MP4B	X	.512	.512	0	%100
102	MP4B	Z	0	0	0	%100
103	3	X	.512	.512	0	%100
104	3	Z	0	0	0	%100
105	MP2B	X	.62	.62	0	%100
106	MP2B	Z	0	0	0	%100
107	MP1B	X	.62	.62	0	%100
108	MP1B	Z	0	0	0	%100
109	OVP	X	.419	.419	0	%100
110	OVP	Z	0	0	0	%100
111	M108	X	0	0	0	%100
112	M108	Z	0	0	0	%100
113	M116	X	.465	.465	0	%100
114	M116	Z	0	0	0	%100
115	M124	X	.465	.465	0	%100
116	M124	Z	0	0	0	%100
117	M132	X	.608	.608	0	%100
118	M132	Z	0	0	0	%100
119	M133	X	.608	.608	0	%100
120	M133	Z	0	0	0	%100
121	M134	X	0	0	0	%100
122	M134	Z	0	0	0	%100
123	M139	X	.023	.023	0	%100
124	M139	Z	0	0	0	%100
125	M140	X	.023	.023	0	%100
126	M140	Z	0	0	0	%100
127	MP3B	X	.512	.512	0	%100
128	MP3B	Z	0	0	0	%100
129	M148	X	.023	.023	0	%100
130	M148	Z	0	0	0	%100
131	M149	X	.023	.023	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
132	M149	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	.654	.654	0	%100
2	M1	Z	.377	.377	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	.562	.562	0	%100
6	M10	Z	.324	.324	0	%100
7	M43	X	.562	.562	0	%100
8	M43	Z	.324	.324	0	%100
9	M46	X	1.12	1.12	0	%100
10	M46	Z	.647	.647	0	%100
11	M51B	X	.156	.156	0	%100
12	M51B	Z	.09	.09	0	%100
13	M52B	X	.156	.156	0	%100
14	M52B	Z	.09	.09	0	%100
15	M76	X	0	0	0	%100
16	M76	Z	0	0	0	%100
17	M77	X	.285	.285	0	%100
18	M77	Z	.165	.165	0	%100
19	M80	X	.301	.301	0	%100
20	M80	Z	.173	.173	0	%100
21	M84	X	0	0	0	%100
22	M84	Z	0	0	0	%100
23	M85	X	.285	.285	0	%100
24	M85	Z	.165	.165	0	%100
25	M91	X	.301	.301	0	%100
26	M91	Z	.173	.173	0	%100
27	M52A	X	.498	.498	0	%100
28	M52A	Z	.287	.287	0	%100
29	M53	X	.14	.14	0	%100
30	M53	Z	.081	.081	0	%100
31	M54	X	.14	.14	0	%100
32	M54	Z	.081	.081	0	%100
33	M55	X	.28	.28	0	%100
34	M55	Z	.162	.162	0	%100
35	M58A	X	.156	.156	0	%100
36	M58A	Z	.09	.09	0	%100
37	M59A	X	.622	.622	0	%100
38	M59A	Z	.359	.359	0	%100
39	M63	X	.84	.84	0	%100
40	M63	Z	.485	.485	0	%100
41	M64	X	.285	.285	0	%100
42	M64	Z	.165	.165	0	%100
43	M66	X	.301	.301	0	%100
44	M66	Z	.173	.173	0	%100
45	M68	X	.84	.84	0	%100
46	M68	Z	.485	.485	0	%100
47	M69	X	1.141	1.141	0	%100
48	M69	Z	.659	.659	0	%100
49	M71	X	1.202	1.202	0	%100
50	M71	Z	.694	.694	0	%100
51	M76A	X	.498	.498	0	%100
52	M76A	Z	.287	.287	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
53	M77A	X	.14	.14	0	%100
54	M77A	Z	.081	.081	0	%100
55	M78	X	.14	.14	0	%100
56	M78	Z	.081	.081	0	%100
57	M79A	X	.28	.28	0	%100
58	M79A	Z	.162	.162	0	%100
59	M82	X	.622	.622	0	%100
60	M82	Z	.359	.359	0	%100
61	M83A	X	.156	.156	0	%100
62	M83A	Z	.09	.09	0	%100
63	M87	X	.84	.84	0	%100
64	M87	Z	.485	.485	0	%100
65	M88A	X	1.141	1.141	0	%100
66	M88A	Z	.659	.659	0	%100
67	M90	X	1.202	1.202	0	%100
68	M90	Z	.694	.694	0	%100
69	M92A	X	.84	.84	0	%100
70	M92A	Z	.485	.485	0	%100
71	M93	X	.285	.285	0	%100
72	M93	Z	.165	.165	0	%100
73	M95	X	.301	.301	0	%100
74	M95	Z	.173	.173	0	%100
75	M82A	X	.163	.163	0	%100
76	M82A	Z	.094	.094	0	%100
77	M91B	X	.163	.163	0	%100
78	M91B	Z	.094	.094	0	%100
79	MP5A	X	.444	.444	0	%100
80	MP5A	Z	.256	.256	0	%100
81	MP4A	X	.444	.444	0	%100
82	MP4A	Z	.256	.256	0	%100
83	MP3A	X	.444	.444	0	%100
84	MP3A	Z	.256	.256	0	%100
85	MP2A	X	.537	.537	0	%100
86	MP2A	Z	.31	.31	0	%100
87	MP1A	X	.537	.537	0	%100
88	MP1A	Z	.31	.31	0	%100
89	MP5C	X	.444	.444	0	%100
90	MP5C	Z	.256	.256	0	%100
91	MP4C	X	.444	.444	0	%100
92	MP4C	Z	.256	.256	0	%100
93	MP3C	X	.444	.444	0	%100
94	MP3C	Z	.256	.256	0	%100
95	MP2C	X	.537	.537	0	%100
96	MP2C	Z	.31	.31	0	%100
97	MP1C	X	.537	.537	0	%100
98	MP1C	Z	.31	.31	0	%100
99	MP5B	X	.444	.444	0	%100
100	MP5B	Z	.256	.256	0	%100
101	MP4B	X	.444	.444	0	%100
102	MP4B	Z	.256	.256	0	%100
103	3	X	.444	.444	0	%100
104	3	Z	.256	.256	0	%100
105	MP2B	X	.537	.537	0	%100
106	MP2B	Z	.31	.31	0	%100
107	MP1B	X	.537	.537	0	%100
108	MP1B	Z	.31	.31	0	%100
109	OVP	X	.363	.363	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
110	OVP	Z	.209	.209	0	%100
111	M108	X	.134	.134	0	%100
112	M108	Z	.077	.077	0	%100
113	M116	X	.134	.134	0	%100
114	M116	Z	.077	.077	0	%100
115	M124	X	.537	.537	0	%100
116	M124	Z	.31	.31	0	%100
117	M132	X	.702	.702	0	%100
118	M132	Z	.405	.405	0	%100
119	M133	X	.176	.176	0	%100
120	M133	Z	.101	.101	0	%100
121	M134	X	.176	.176	0	%100
122	M134	Z	.101	.101	0	%100
123	M139	X	0	0	0	%100
124	M139	Z	0	0	0	%100
125	M140	X	0	0	0	%100
126	M140	Z	0	0	0	%100
127	MP3B	X	.444	.444	0	%100
128	MP3B	Z	.256	.256	0	%100
129	M148	X	0	0	0	%100
130	M148	Z	0	0	0	%100
131	M149	X	0	0	0	%100
132	M149	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	.283	.283	0	%100
2	M1	Z	.49	.49	0	%100
3	M4	X	.096	.096	0	%100
4	M4	Z	.166	.166	0	%100
5	M10	X	.243	.243	0	%100
6	M10	Z	.421	.421	0	%100
7	M43	X	.243	.243	0	%100
8	M43	Z	.421	.421	0	%100
9	M46	X	.485	.485	0	%100
10	M46	Z	.84	.84	0	%100
11	M51B	X	.269	.269	0	%100
12	M51B	Z	.467	.467	0	%100
13	M52B	X	0	0	0	%100
14	M52B	Z	0	0	0	%100
15	M76	X	.162	.162	0	%100
16	M76	Z	.28	.28	0	%100
17	M77	X	.494	.494	0	%100
18	M77	Z	.856	.856	0	%100
19	M80	X	.52	.52	0	%100
20	M80	Z	.902	.902	0	%100
21	M84	X	.162	.162	0	%100
22	M84	Z	.28	.28	0	%100
23	M85	X	0	0	0	%100
24	M85	Z	0	0	0	%100
25	M91	X	0	0	0	%100
26	M91	Z	0	0	0	%100
27	M52A	X	.096	.096	0	%100
28	M52A	Z	.166	.166	0	%100
29	M53	X	.243	.243	0	%100
30	M53	Z	.421	.421	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
31	M54	X	.243	.243	0	%100
32	M54	Z	.421	.421	0	%100
33	M55	X	.485	.485	0	%100
34	M55	Z	.84	.84	0	%100
35	M58A	X	0	0	0	%100
36	M58A	Z	0	0	0	%100
37	M59A	X	.269	.269	0	%100
38	M59A	Z	.467	.467	0	%100
39	M63	X	.162	.162	0	%100
40	M63	Z	.28	.28	0	%100
41	M64	X	0	0	0	%100
42	M64	Z	0	0	0	%100
43	M66	X	0	0	0	%100
44	M66	Z	0	0	0	%100
45	M68	X	.162	.162	0	%100
46	M68	Z	.28	.28	0	%100
47	M69	X	.494	.494	0	%100
48	M69	Z	.856	.856	0	%100
49	M71	X	.52	.52	0	%100
50	M71	Z	.902	.902	0	%100
51	M76A	X	.383	.383	0	%100
52	M76A	Z	.664	.664	0	%100
53	M77A	X	0	0	0	%100
54	M77A	Z	0	0	0	%100
55	M78	X	0	0	0	%100
56	M78	Z	0	0	0	%100
57	M79A	X	0	0	0	%100
58	M79A	Z	0	0	0	%100
59	M82	X	.269	.269	0	%100
60	M82	Z	.467	.467	0	%100
61	M83A	X	.269	.269	0	%100
62	M83A	Z	.467	.467	0	%100
63	M87	X	.647	.647	0	%100
64	M87	Z	1.12	1.12	0	%100
65	M88A	X	.494	.494	0	%100
66	M88A	Z	.856	.856	0	%100
67	M90	X	.52	.52	0	%100
68	M90	Z	.902	.902	0	%100
69	M92A	X	.647	.647	0	%100
70	M92A	Z	1.12	1.12	0	%100
71	M93	X	.494	.494	0	%100
72	M93	Z	.856	.856	0	%100
73	M95	X	.52	.52	0	%100
74	M95	Z	.902	.902	0	%100
75	M82A	X	.283	.283	0	%100
76	M82A	Z	.49	.49	0	%100
77	M91B	X	0	0	0	%100
78	M91B	Z	0	0	0	%100
79	MP5A	X	.256	.256	0	%100
80	MP5A	Z	.444	.444	0	%100
81	MP4A	X	.256	.256	0	%100
82	MP4A	Z	.444	.444	0	%100
83	MP3A	X	.256	.256	0	%100
84	MP3A	Z	.444	.444	0	%100
85	MP2A	X	.31	.31	0	%100
86	MP2A	Z	.537	.537	0	%100
87	MP1A	X	.31	.31	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
88	MP1A	Z	.537	.537	0	%100
89	MP5C	X	.256	.256	0	%100
90	MP5C	Z	.444	.444	0	%100
91	MP4C	X	.256	.256	0	%100
92	MP4C	Z	.444	.444	0	%100
93	MP3C	X	.256	.256	0	%100
94	MP3C	Z	.444	.444	0	%100
95	MP2C	X	.31	.31	0	%100
96	MP2C	Z	.537	.537	0	%100
97	MP1C	X	.31	.31	0	%100
98	MP1C	Z	.537	.537	0	%100
99	MP5B	X	.256	.256	0	%100
100	MP5B	Z	.444	.444	0	%100
101	MP4B	X	.256	.256	0	%100
102	MP4B	Z	.444	.444	0	%100
103	3	X	.256	.256	0	%100
104	3	Z	.444	.444	0	%100
105	MP2B	X	.31	.31	0	%100
106	MP2B	Z	.537	.537	0	%100
107	MP1B	X	.31	.31	0	%100
108	MP1B	Z	.537	.537	0	%100
109	OVP	X	.209	.209	0	%100
110	OVP	Z	.363	.363	0	%100
111	M108	X	.232	.232	0	%100
112	M108	Z	.403	.403	0	%100
113	M116	X	0	0	0	%100
114	M116	Z	0	0	0	%100
115	M124	X	.232	.232	0	%100
116	M124	Z	.403	.403	0	%100
117	M132	X	.304	.304	0	%100
118	M132	Z	.527	.527	0	%100
119	M133	X	0	0	0	%100
120	M133	Z	0	0	0	%100
121	M134	X	.304	.304	0	%100
122	M134	Z	.527	.527	0	%100
123	M139	X	.012	.012	0	%100
124	M139	Z	.02	.02	0	%100
125	M140	X	.012	.012	0	%100
126	M140	Z	.02	.02	0	%100
127	MP3B	X	.256	.256	0	%100
128	MP3B	Z	.444	.444	0	%100
129	M148	X	.012	.012	0	%100
130	M148	Z	.02	.02	0	%100
131	M149	X	.012	.012	0	%100
132	M149	Z	.02	.02	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	.189	.189	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	.575	.575	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	.162	.162	0	%100
7	M43	X	0	0	0	%100
8	M43	Z	.162	.162	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
9	M46	X	0	0	0	%100
10	M46	Z	.323	.323	0	%100
11	M51B	X	0	0	0	%100
12	M51B	Z	.718	.718	0	%100
13	M52B	X	0	0	0	%100
14	M52B	Z	.18	.18	0	%100
15	M76	X	0	0	0	%100
16	M76	Z	.97	.97	0	%100
17	M77	X	0	0	0	%100
18	M77	Z	1.318	1.318	0	%100
19	M80	X	0	0	0	%100
20	M80	Z	1.388	1.388	0	%100
21	M84	X	0	0	0	%100
22	M84	Z	.97	.97	0	%100
23	M85	X	0	0	0	%100
24	M85	Z	.329	.329	0	%100
25	M91	X	0	0	0	%100
26	M91	Z	.347	.347	0	%100
27	M52A	X	0	0	0	%100
28	M52A	Z	0	0	0	%100
29	M53	X	0	0	0	%100
30	M53	Z	.649	.649	0	%100
31	M54	X	0	0	0	%100
32	M54	Z	.649	.649	0	%100
33	M55	X	0	0	0	%100
34	M55	Z	1.294	1.294	0	%100
35	M58A	X	0	0	0	%100
36	M58A	Z	.18	.18	0	%100
37	M59A	X	0	0	0	%100
38	M59A	Z	.18	.18	0	%100
39	M63	X	0	0	0	%100
40	M63	Z	0	0	0	%100
41	M64	X	0	0	0	%100
42	M64	Z	.329	.329	0	%100
43	M66	X	0	0	0	%100
44	M66	Z	.347	.347	0	%100
45	M68	X	0	0	0	%100
46	M68	Z	0	0	0	%100
47	M69	X	0	0	0	%100
48	M69	Z	.329	.329	0	%100
49	M71	X	0	0	0	%100
50	M71	Z	.347	.347	0	%100
51	M76A	X	0	0	0	%100
52	M76A	Z	.575	.575	0	%100
53	M77A	X	0	0	0	%100
54	M77A	Z	.162	.162	0	%100
55	M78	X	0	0	0	%100
56	M78	Z	.162	.162	0	%100
57	M79A	X	0	0	0	%100
58	M79A	Z	.323	.323	0	%100
59	M82	X	0	0	0	%100
60	M82	Z	.18	.18	0	%100
61	M83A	X	0	0	0	%100
62	M83A	Z	.718	.718	0	%100
63	M87	X	0	0	0	%100
64	M87	Z	.97	.97	0	%100
65	M88A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
66	M88A	Z	.329	.329	0	%100
67	M90	X	0	0	0	%100
68	M90	Z	.347	.347	0	%100
69	M92A	X	0	0	0	%100
70	M92A	Z	.97	.97	0	%100
71	M93	X	0	0	0	%100
72	M93	Z	1.318	1.318	0	%100
73	M95	X	0	0	0	%100
74	M95	Z	1.388	1.388	0	%100
75	M82A	X	0	0	0	%100
76	M82A	Z	.755	.755	0	%100
77	M91B	X	0	0	0	%100
78	M91B	Z	.189	.189	0	%100
79	MP5A	X	0	0	0	%100
80	MP5A	Z	.512	.512	0	%100
81	MP4A	X	0	0	0	%100
82	MP4A	Z	.512	.512	0	%100
83	MP3A	X	0	0	0	%100
84	MP3A	Z	.512	.512	0	%100
85	MP2A	X	0	0	0	%100
86	MP2A	Z	.62	.62	0	%100
87	MP1A	X	0	0	0	%100
88	MP1A	Z	.62	.62	0	%100
89	MP5C	X	0	0	0	%100
90	MP5C	Z	.512	.512	0	%100
91	MP4C	X	0	0	0	%100
92	MP4C	Z	.512	.512	0	%100
93	MP3C	X	0	0	0	%100
94	MP3C	Z	.512	.512	0	%100
95	MP2C	X	0	0	0	%100
96	MP2C	Z	.62	.62	0	%100
97	MP1C	X	0	0	0	%100
98	MP1C	Z	.62	.62	0	%100
99	MP5B	X	0	0	0	%100
100	MP5B	Z	.512	.512	0	%100
101	MP4B	X	0	0	0	%100
102	MP4B	Z	.512	.512	0	%100
103	3	X	0	0	0	%100
104	3	Z	.512	.512	0	%100
105	MP2B	X	0	0	0	%100
106	MP2B	Z	.62	.62	0	%100
107	MP1B	X	0	0	0	%100
108	MP1B	Z	.62	.62	0	%100
109	OVP	X	0	0	0	%100
110	OVP	Z	.419	.419	0	%100
111	M108	X	0	0	0	%100
112	M108	Z	.62	.62	0	%100
113	M116	X	0	0	0	%100
114	M116	Z	.155	.155	0	%100
115	M124	X	0	0	0	%100
116	M124	Z	.155	.155	0	%100
117	M132	X	0	0	0	%100
118	M132	Z	.203	.203	0	%100
119	M133	X	0	0	0	%100
120	M133	Z	.203	.203	0	%100
121	M134	X	0	0	0	%100
122	M134	Z	.811	.811	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
123	M139	X	0	0	0	%100
124	M139	Z	.07	.07	0	%100
125	M140	X	0	0	0	%100
126	M140	Z	.07	.07	0	%100
127	MP3B	X	0	0	0	%100
128	MP3B	Z	.512	.512	0	%100
129	M148	X	0	0	0	%100
130	M148	Z	.07	.07	0	%100
131	M149	X	0	0	0	%100
132	M149	Z	.07	.07	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	-.383	-.383	0	%100
4	M4	Z	.664	.664	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	M43	X	0	0	0	%100
8	M43	Z	0	0	0	%100
9	M46	X	0	0	0	%100
10	M46	Z	0	0	0	%100
11	M51B	X	-.269	-.269	0	%100
12	M51B	Z	.467	.467	0	%100
13	M52B	X	-.269	-.269	0	%100
14	M52B	Z	.467	.467	0	%100
15	M76	X	-.647	-.647	0	%100
16	M76	Z	1.12	1.12	0	%100
17	M77	X	-.494	-.494	0	%100
18	M77	Z	.856	.856	0	%100
19	M80	X	-.52	-.52	0	%100
20	M80	Z	.902	.902	0	%100
21	M84	X	-.647	-.647	0	%100
22	M84	Z	1.12	1.12	0	%100
23	M85	X	-.494	-.494	0	%100
24	M85	Z	.856	.856	0	%100
25	M91	X	-.52	-.52	0	%100
26	M91	Z	.902	.902	0	%100
27	M52A	X	-.096	-.096	0	%100
28	M52A	Z	.166	.166	0	%100
29	M53	X	-.243	-.243	0	%100
30	M53	Z	.421	.421	0	%100
31	M54	X	-.243	-.243	0	%100
32	M54	Z	.421	.421	0	%100
33	M55	X	-.485	-.485	0	%100
34	M55	Z	.84	.84	0	%100
35	M58A	X	-.269	-.269	0	%100
36	M58A	Z	.467	.467	0	%100
37	M59A	X	0	0	0	%100
38	M59A	Z	0	0	0	%100
39	M63	X	-.162	-.162	0	%100
40	M63	Z	.28	.28	0	%100
41	M64	X	-.494	-.494	0	%100
42	M64	Z	.856	.856	0	%100
43	M66	X	-.52	-.52	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
44	M66	Z	.902	.902	0	%100
45	M68	X	-.162	-.162	0	%100
46	M68	Z	.28	.28	0	%100
47	M69	X	0	0	0	%100
48	M69	Z	0	0	0	%100
49	M71	X	0	0	0	%100
50	M71	Z	0	0	0	%100
51	M76A	X	-.096	-.096	0	%100
52	M76A	Z	.166	.166	0	%100
53	M77A	X	-.243	-.243	0	%100
54	M77A	Z	.421	.421	0	%100
55	M78	X	-.243	-.243	0	%100
56	M78	Z	.421	.421	0	%100
57	M79A	X	-.485	-.485	0	%100
58	M79A	Z	.84	.84	0	%100
59	M82	X	0	0	0	%100
60	M82	Z	0	0	0	%100
61	M83A	X	-.269	-.269	0	%100
62	M83A	Z	.467	.467	0	%100
63	M87	X	-.162	-.162	0	%100
64	M87	Z	.28	.28	0	%100
65	M88A	X	0	0	0	%100
66	M88A	Z	0	0	0	%100
67	M90	X	0	0	0	%100
68	M90	Z	0	0	0	%100
69	M92A	X	-.162	-.162	0	%100
70	M92A	Z	.28	.28	0	%100
71	M93	X	-.494	-.494	0	%100
72	M93	Z	.856	.856	0	%100
73	M95	X	-.52	-.52	0	%100
74	M95	Z	.902	.902	0	%100
75	M82A	X	-.283	-.283	0	%100
76	M82A	Z	.49	.49	0	%100
77	M91B	X	-.283	-.283	0	%100
78	M91B	Z	.49	.49	0	%100
79	MP5A	X	-.256	-.256	0	%100
80	MP5A	Z	.444	.444	0	%100
81	MP4A	X	-.256	-.256	0	%100
82	MP4A	Z	.444	.444	0	%100
83	MP3A	X	-.256	-.256	0	%100
84	MP3A	Z	.444	.444	0	%100
85	MP2A	X	-.31	-.31	0	%100
86	MP2A	Z	.537	.537	0	%100
87	MP1A	X	-.31	-.31	0	%100
88	MP1A	Z	.537	.537	0	%100
89	MP5C	X	-.256	-.256	0	%100
90	MP5C	Z	.444	.444	0	%100
91	MP4C	X	-.256	-.256	0	%100
92	MP4C	Z	.444	.444	0	%100
93	MP3C	X	-.256	-.256	0	%100
94	MP3C	Z	.444	.444	0	%100
95	MP2C	X	-.31	-.31	0	%100
96	MP2C	Z	.537	.537	0	%100
97	MP1C	X	-.31	-.31	0	%100
98	MP1C	Z	.537	.537	0	%100
99	MP5B	X	-.256	-.256	0	%100
100	MP5B	Z	.444	.444	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
101	MP4B	X	-.256	-.256	0	%100
102	MP4B	Z	.444	.444	0	%100
103	3	X	-.256	-.256	0	%100
104	3	Z	.444	.444	0	%100
105	MP2B	X	-.31	-.31	0	%100
106	MP2B	Z	.537	.537	0	%100
107	MP1B	X	-.31	-.31	0	%100
108	MP1B	Z	.537	.537	0	%100
109	OVP	X	-.209	-.209	0	%100
110	OVP	Z	.363	.363	0	%100
111	M108	X	-.232	-.232	0	%100
112	M108	Z	.403	.403	0	%100
113	M116	X	-.232	-.232	0	%100
114	M116	Z	.403	.403	0	%100
115	M124	X	0	0	0	%100
116	M124	Z	0	0	0	%100
117	M132	X	0	0	0	%100
118	M132	Z	0	0	0	%100
119	M133	X	-.304	-.304	0	%100
120	M133	Z	.527	.527	0	%100
121	M134	X	-.304	-.304	0	%100
122	M134	Z	.527	.527	0	%100
123	M139	X	-.047	-.047	0	%100
124	M139	Z	.081	.081	0	%100
125	M140	X	-.047	-.047	0	%100
126	M140	Z	.081	.081	0	%100
127	MP3B	X	-.256	-.256	0	%100
128	MP3B	Z	.444	.444	0	%100
129	M148	X	-.047	-.047	0	%100
130	M148	Z	.081	.081	0	%100
131	M149	X	-.047	-.047	0	%100
132	M149	Z	.081	.081	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	-.163	-.163	0	%100
2	M1	Z	.094	.094	0	%100
3	M4	X	-.498	-.498	0	%100
4	M4	Z	.287	.287	0	%100
5	M10	X	-.14	-.14	0	%100
6	M10	Z	.081	.081	0	%100
7	M43	X	-.14	-.14	0	%100
8	M43	Z	.081	.081	0	%100
9	M46	X	-.28	-.28	0	%100
10	M46	Z	.162	.162	0	%100
11	M51B	X	-.156	-.156	0	%100
12	M51B	Z	.09	.09	0	%100
13	M52B	X	-.622	-.622	0	%100
14	M52B	Z	.359	.359	0	%100
15	M76	X	-.84	-.84	0	%100
16	M76	Z	.485	.485	0	%100
17	M77	X	-.285	-.285	0	%100
18	M77	Z	.165	.165	0	%100
19	M80	X	-.301	-.301	0	%100
20	M80	Z	.173	.173	0	%100
21	M84	X	-.84	-.84	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
22	M84	Z	.485	.485	0	%100
23	M85	X	-1.141	-1.141	0	%100
24	M85	Z	.659	.659	0	%100
25	M91	X	-1.202	-1.202	0	%100
26	M91	Z	.694	.694	0	%100
27	M52A	X	-.498	-.498	0	%100
28	M52A	Z	.287	.287	0	%100
29	M53	X	-.14	-.14	0	%100
30	M53	Z	.081	.081	0	%100
31	M54	X	-.14	-.14	0	%100
32	M54	Z	.081	.081	0	%100
33	M55	X	-.28	-.28	0	%100
34	M55	Z	.162	.162	0	%100
35	M58A	X	-.622	-.622	0	%100
36	M58A	Z	.359	.359	0	%100
37	M59A	X	-.156	-.156	0	%100
38	M59A	Z	.09	.09	0	%100
39	M63	X	-.84	-.84	0	%100
40	M63	Z	.485	.485	0	%100
41	M64	X	-1.141	-1.141	0	%100
42	M64	Z	.659	.659	0	%100
43	M66	X	-1.202	-1.202	0	%100
44	M66	Z	.694	.694	0	%100
45	M68	X	-.84	-.84	0	%100
46	M68	Z	.485	.485	0	%100
47	M69	X	-.285	-.285	0	%100
48	M69	Z	.165	.165	0	%100
49	M71	X	-.301	-.301	0	%100
50	M71	Z	.173	.173	0	%100
51	M76A	X	0	0	0	%100
52	M76A	Z	0	0	0	%100
53	M77A	X	-.562	-.562	0	%100
54	M77A	Z	.324	.324	0	%100
55	M78	X	-.562	-.562	0	%100
56	M78	Z	.324	.324	0	%100
57	M79A	X	-1.12	-1.12	0	%100
58	M79A	Z	.647	.647	0	%100
59	M82	X	-.156	-.156	0	%100
60	M82	Z	.09	.09	0	%100
61	M83A	X	-.156	-.156	0	%100
62	M83A	Z	.09	.09	0	%100
63	M87	X	0	0	0	%100
64	M87	Z	0	0	0	%100
65	M88A	X	-.285	-.285	0	%100
66	M88A	Z	.165	.165	0	%100
67	M90	X	-.301	-.301	0	%100
68	M90	Z	.173	.173	0	%100
69	M92A	X	0	0	0	%100
70	M92A	Z	0	0	0	%100
71	M93	X	-.285	-.285	0	%100
72	M93	Z	.165	.165	0	%100
73	M95	X	-.301	-.301	0	%100
74	M95	Z	.173	.173	0	%100
75	M82A	X	-.163	-.163	0	%100
76	M82A	Z	.094	.094	0	%100
77	M91B	X	-.654	-.654	0	%100
78	M91B	Z	.377	.377	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
79	MP5A	X	-.444	-.444	0	%100
80	MP5A	Z	.256	.256	0	%100
81	MP4A	X	-.444	-.444	0	%100
82	MP4A	Z	.256	.256	0	%100
83	MP3A	X	-.444	-.444	0	%100
84	MP3A	Z	.256	.256	0	%100
85	MP2A	X	-.537	-.537	0	%100
86	MP2A	Z	.31	.31	0	%100
87	MP1A	X	-.537	-.537	0	%100
88	MP1A	Z	.31	.31	0	%100
89	MP5C	X	-.444	-.444	0	%100
90	MP5C	Z	.256	.256	0	%100
91	MP4C	X	-.444	-.444	0	%100
92	MP4C	Z	.256	.256	0	%100
93	MP3C	X	-.444	-.444	0	%100
94	MP3C	Z	.256	.256	0	%100
95	MP2C	X	-.537	-.537	0	%100
96	MP2C	Z	.31	.31	0	%100
97	MP1C	X	-.537	-.537	0	%100
98	MP1C	Z	.31	.31	0	%100
99	MP5B	X	-.444	-.444	0	%100
100	MP5B	Z	.256	.256	0	%100
101	MP4B	X	-.444	-.444	0	%100
102	MP4B	Z	.256	.256	0	%100
103	3	X	-.444	-.444	0	%100
104	3	Z	.256	.256	0	%100
105	MP2B	X	-.537	-.537	0	%100
106	MP2B	Z	.31	.31	0	%100
107	MP1B	X	-.537	-.537	0	%100
108	MP1B	Z	.31	.31	0	%100
109	OVP	X	-.363	-.363	0	%100
110	OVP	Z	.209	.209	0	%100
111	M108	X	-.134	-.134	0	%100
112	M108	Z	.077	.077	0	%100
113	M116	X	-.537	-.537	0	%100
114	M116	Z	.31	.31	0	%100
115	M124	X	-.134	-.134	0	%100
116	M124	Z	.077	.077	0	%100
117	M132	X	-.176	-.176	0	%100
118	M132	Z	.101	.101	0	%100
119	M133	X	-.702	-.702	0	%100
120	M133	Z	.405	.405	0	%100
121	M134	X	-.176	-.176	0	%100
122	M134	Z	.101	.101	0	%100
123	M139	X	-.061	-.061	0	%100
124	M139	Z	.035	.035	0	%100
125	M140	X	-.061	-.061	0	%100
126	M140	Z	.035	.035	0	%100
127	MP3B	X	-.444	-.444	0	%100
128	MP3B	Z	.256	.256	0	%100
129	M148	X	-.061	-.061	0	%100
130	M148	Z	.035	.035	0	%100
131	M149	X	-.061	-.061	0	%100
132	M149	Z	.035	.035	0	%100

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

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

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	-.566	-.566	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	-.192	-.192	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	-.486	-.486	0	%100
6	M10	Z	0	0	0	%100
7	M43	X	-.486	-.486	0	%100
8	M43	Z	0	0	0	%100
9	M46	X	-.97	-.97	0	%100
10	M46	Z	0	0	0	%100
11	M51B	X	0	0	0	%100
12	M51B	Z	0	0	0	%100
13	M52B	X	-.539	-.539	0	%100
14	M52B	Z	0	0	0	%100
15	M76	X	-.323	-.323	0	%100
16	M76	Z	0	0	0	%100
17	M77	X	0	0	0	%100
18	M77	Z	0	0	0	%100
19	M80	X	0	0	0	%100
20	M80	Z	0	0	0	%100
21	M84	X	-.323	-.323	0	%100
22	M84	Z	0	0	0	%100
23	M85	X	-.988	-.988	0	%100
24	M85	Z	0	0	0	%100
25	M91	X	-1.041	-1.041	0	%100
26	M91	Z	0	0	0	%100
27	M52A	X	-.767	-.767	0	%100
28	M52A	Z	0	0	0	%100
29	M53	X	0	0	0	%100
30	M53	Z	0	0	0	%100
31	M54	X	0	0	0	%100
32	M54	Z	0	0	0	%100
33	M55	X	0	0	0	%100
34	M55	Z	0	0	0	%100
35	M58A	X	-.539	-.539	0	%100
36	M58A	Z	0	0	0	%100
37	M59A	X	-.539	-.539	0	%100
38	M59A	Z	0	0	0	%100
39	M63	X	-1.294	-1.294	0	%100
40	M63	Z	0	0	0	%100
41	M64	X	-.988	-.988	0	%100
42	M64	Z	0	0	0	%100
43	M66	X	-1.041	-1.041	0	%100
44	M66	Z	0	0	0	%100
45	M68	X	-1.294	-1.294	0	%100
46	M68	Z	0	0	0	%100
47	M69	X	-.988	-.988	0	%100
48	M69	Z	0	0	0	%100
49	M71	X	-1.041	-1.041	0	%100
50	M71	Z	0	0	0	%100
51	M76A	X	-.192	-.192	0	%100
52	M76A	Z	0	0	0	%100
53	M77A	X	-.486	-.486	0	%100
54	M77A	Z	0	0	0	%100
55	M78	X	-.486	-.486	0	%100
56	M78	Z	0	0	0	%100
57	M79A	X	-.97	-.97	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
58	M79A	Z	0	0	0	%100
59	M82	X	-.539	-.539	0	%100
60	M82	Z	0	0	0	%100
61	M83A	X	0	0	0	%100
62	M83A	Z	0	0	0	%100
63	M87	X	-.323	-.323	0	%100
64	M87	Z	0	0	0	%100
65	M88A	X	-.988	-.988	0	%100
66	M88A	Z	0	0	0	%100
67	M90	X	-1.041	-1.041	0	%100
68	M90	Z	0	0	0	%100
69	M92A	X	-.323	-.323	0	%100
70	M92A	Z	0	0	0	%100
71	M93	X	0	0	0	%100
72	M93	Z	0	0	0	%100
73	M95	X	0	0	0	%100
74	M95	Z	0	0	0	%100
75	M82A	X	0	0	0	%100
76	M82A	Z	0	0	0	%100
77	M91B	X	-.566	-.566	0	%100
78	M91B	Z	0	0	0	%100
79	MP5A	X	-.512	-.512	0	%100
80	MP5A	Z	0	0	0	%100
81	MP4A	X	-.512	-.512	0	%100
82	MP4A	Z	0	0	0	%100
83	MP3A	X	-.512	-.512	0	%100
84	MP3A	Z	0	0	0	%100
85	MP2A	X	-.62	-.62	0	%100
86	MP2A	Z	0	0	0	%100
87	MP1A	X	-.62	-.62	0	%100
88	MP1A	Z	0	0	0	%100
89	MP5C	X	-.512	-.512	0	%100
90	MP5C	Z	0	0	0	%100
91	MP4C	X	-.512	-.512	0	%100
92	MP4C	Z	0	0	0	%100
93	MP3C	X	-.512	-.512	0	%100
94	MP3C	Z	0	0	0	%100
95	MP2C	X	-.62	-.62	0	%100
96	MP2C	Z	0	0	0	%100
97	MP1C	X	-.62	-.62	0	%100
98	MP1C	Z	0	0	0	%100
99	MP5B	X	-.512	-.512	0	%100
100	MP5B	Z	0	0	0	%100
101	MP4B	X	-.512	-.512	0	%100
102	MP4B	Z	0	0	0	%100
103	3	X	-.512	-.512	0	%100
104	3	Z	0	0	0	%100
105	MP2B	X	-.62	-.62	0	%100
106	MP2B	Z	0	0	0	%100
107	MP1B	X	-.62	-.62	0	%100
108	MP1B	Z	0	0	0	%100
109	OVP	X	-.419	-.419	0	%100
110	OVP	Z	0	0	0	%100
111	M108	X	0	0	0	%100
112	M108	Z	0	0	0	%100
113	M116	X	-.465	-.465	0	%100
114	M116	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
115	M124	X	-.465	-.465	0	%100
116	M124	Z	0	0	0	%100
117	M132	X	-.608	-.608	0	%100
118	M132	Z	0	0	0	%100
119	M133	X	-.608	-.608	0	%100
120	M133	Z	0	0	0	%100
121	M134	X	0	0	0	%100
122	M134	Z	0	0	0	%100
123	M139	X	-.023	-.023	0	%100
124	M139	Z	0	0	0	%100
125	M140	X	-.023	-.023	0	%100
126	M140	Z	0	0	0	%100
127	MP3B	X	-.512	-.512	0	%100
128	MP3B	Z	0	0	0	%100
129	M148	X	-.023	-.023	0	%100
130	M148	Z	0	0	0	%100
131	M149	X	-.023	-.023	0	%100
132	M149	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	-.654	-.654	0	%100
2	M1	Z	-.377	-.377	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	-.562	-.562	0	%100
6	M10	Z	-.324	-.324	0	%100
7	M43	X	-.562	-.562	0	%100
8	M43	Z	-.324	-.324	0	%100
9	M46	X	-1.12	-1.12	0	%100
10	M46	Z	-.647	-.647	0	%100
11	M51B	X	-.156	-.156	0	%100
12	M51B	Z	-.09	-.09	0	%100
13	M52B	X	-.156	-.156	0	%100
14	M52B	Z	-.09	-.09	0	%100
15	M76	X	0	0	0	%100
16	M76	Z	0	0	0	%100
17	M77	X	-.285	-.285	0	%100
18	M77	Z	-.165	-.165	0	%100
19	M80	X	-.301	-.301	0	%100
20	M80	Z	-.173	-.173	0	%100
21	M84	X	0	0	0	%100
22	M84	Z	0	0	0	%100
23	M85	X	-.285	-.285	0	%100
24	M85	Z	-.165	-.165	0	%100
25	M91	X	-.301	-.301	0	%100
26	M91	Z	-.173	-.173	0	%100
27	M52A	X	-.498	-.498	0	%100
28	M52A	Z	-.287	-.287	0	%100
29	M53	X	-.14	-.14	0	%100
30	M53	Z	-.081	-.081	0	%100
31	M54	X	-.14	-.14	0	%100
32	M54	Z	-.081	-.081	0	%100
33	M55	X	-.28	-.28	0	%100
34	M55	Z	-.162	-.162	0	%100
35	M58A	X	-.156	-.156	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
36	M58A	Z	-.09	-.09	0	%100
37	M59A	X	-.622	-.622	0	%100
38	M59A	Z	-.359	-.359	0	%100
39	M63	X	-.84	-.84	0	%100
40	M63	Z	-.485	-.485	0	%100
41	M64	X	-.285	-.285	0	%100
42	M64	Z	-.165	-.165	0	%100
43	M66	X	-.301	-.301	0	%100
44	M66	Z	-.173	-.173	0	%100
45	M68	X	-.84	-.84	0	%100
46	M68	Z	-.485	-.485	0	%100
47	M69	X	-1.141	-1.141	0	%100
48	M69	Z	-.659	-.659	0	%100
49	M71	X	-1.202	-1.202	0	%100
50	M71	Z	-.694	-.694	0	%100
51	M76A	X	-.498	-.498	0	%100
52	M76A	Z	-.287	-.287	0	%100
53	M77A	X	-.14	-.14	0	%100
54	M77A	Z	-.081	-.081	0	%100
55	M78	X	-.14	-.14	0	%100
56	M78	Z	-.081	-.081	0	%100
57	M79A	X	-.28	-.28	0	%100
58	M79A	Z	-.162	-.162	0	%100
59	M82	X	-.622	-.622	0	%100
60	M82	Z	-.359	-.359	0	%100
61	M83A	X	-.156	-.156	0	%100
62	M83A	Z	-.09	-.09	0	%100
63	M87	X	-.84	-.84	0	%100
64	M87	Z	-.485	-.485	0	%100
65	M88A	X	-1.141	-1.141	0	%100
66	M88A	Z	-.659	-.659	0	%100
67	M90	X	-1.202	-1.202	0	%100
68	M90	Z	-.694	-.694	0	%100
69	M92A	X	-.84	-.84	0	%100
70	M92A	Z	-.485	-.485	0	%100
71	M93	X	-.285	-.285	0	%100
72	M93	Z	-.165	-.165	0	%100
73	M95	X	-.301	-.301	0	%100
74	M95	Z	-.173	-.173	0	%100
75	M82A	X	-.163	-.163	0	%100
76	M82A	Z	-.094	-.094	0	%100
77	M91B	X	-.163	-.163	0	%100
78	M91B	Z	-.094	-.094	0	%100
79	MP5A	X	-.444	-.444	0	%100
80	MP5A	Z	-.256	-.256	0	%100
81	MP4A	X	-.444	-.444	0	%100
82	MP4A	Z	-.256	-.256	0	%100
83	MP3A	X	-.444	-.444	0	%100
84	MP3A	Z	-.256	-.256	0	%100
85	MP2A	X	-.537	-.537	0	%100
86	MP2A	Z	-.31	-.31	0	%100
87	MP1A	X	-.537	-.537	0	%100
88	MP1A	Z	-.31	-.31	0	%100
89	MP5C	X	-.444	-.444	0	%100
90	MP5C	Z	-.256	-.256	0	%100
91	MP4C	X	-.444	-.444	0	%100
92	MP4C	Z	-.256	-.256	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
93	MP3C	X	-.444	-.444	0	%100
94	MP3C	Z	-.256	-.256	0	%100
95	MP2C	X	-.537	-.537	0	%100
96	MP2C	Z	-.31	-.31	0	%100
97	MP1C	X	-.537	-.537	0	%100
98	MP1C	Z	-.31	-.31	0	%100
99	MP5B	X	-.444	-.444	0	%100
100	MP5B	Z	-.256	-.256	0	%100
101	MP4B	X	-.444	-.444	0	%100
102	MP4B	Z	-.256	-.256	0	%100
103	3	X	-.444	-.444	0	%100
104	3	Z	-.256	-.256	0	%100
105	MP2B	X	-.537	-.537	0	%100
106	MP2B	Z	-.31	-.31	0	%100
107	MP1B	X	-.537	-.537	0	%100
108	MP1B	Z	-.31	-.31	0	%100
109	OVP	X	-.363	-.363	0	%100
110	OVP	Z	-.209	-.209	0	%100
111	M108	X	-.134	-.134	0	%100
112	M108	Z	-.077	-.077	0	%100
113	M116	X	-.134	-.134	0	%100
114	M116	Z	-.077	-.077	0	%100
115	M124	X	-.537	-.537	0	%100
116	M124	Z	-.31	-.31	0	%100
117	M132	X	-.702	-.702	0	%100
118	M132	Z	-.405	-.405	0	%100
119	M133	X	-.176	-.176	0	%100
120	M133	Z	-.101	-.101	0	%100
121	M134	X	-.176	-.176	0	%100
122	M134	Z	-.101	-.101	0	%100
123	M139	X	0	0	0	%100
124	M139	Z	0	0	0	%100
125	M140	X	0	0	0	%100
126	M140	Z	0	0	0	%100
127	MP3B	X	-.444	-.444	0	%100
128	MP3B	Z	-.256	-.256	0	%100
129	M148	X	0	0	0	%100
130	M148	Z	0	0	0	%100
131	M149	X	0	0	0	%100
132	M149	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	-.283	-.283	0	%100
2	M1	Z	-.49	-.49	0	%100
3	M4	X	-.096	-.096	0	%100
4	M4	Z	-.166	-.166	0	%100
5	M10	X	-.243	-.243	0	%100
6	M10	Z	-.421	-.421	0	%100
7	M43	X	-.243	-.243	0	%100
8	M43	Z	-.421	-.421	0	%100
9	M46	X	-.485	-.485	0	%100
10	M46	Z	-.84	-.84	0	%100
11	M51B	X	-.269	-.269	0	%100
12	M51B	Z	-.467	-.467	0	%100
13	M52B	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
14	M52B	Z	0	0	0	%100
15	M76	X	-.162	-.162	0	%100
16	M76	Z	-.28	-.28	0	%100
17	M77	X	-.494	-.494	0	%100
18	M77	Z	-.856	-.856	0	%100
19	M80	X	-.52	-.52	0	%100
20	M80	Z	-.902	-.902	0	%100
21	M84	X	-.162	-.162	0	%100
22	M84	Z	-.28	-.28	0	%100
23	M85	X	0	0	0	%100
24	M85	Z	0	0	0	%100
25	M91	X	0	0	0	%100
26	M91	Z	0	0	0	%100
27	M52A	X	-.096	-.096	0	%100
28	M52A	Z	-.166	-.166	0	%100
29	M53	X	-.243	-.243	0	%100
30	M53	Z	-.421	-.421	0	%100
31	M54	X	-.243	-.243	0	%100
32	M54	Z	-.421	-.421	0	%100
33	M55	X	-.485	-.485	0	%100
34	M55	Z	-.84	-.84	0	%100
35	M58A	X	0	0	0	%100
36	M58A	Z	0	0	0	%100
37	M59A	X	-.269	-.269	0	%100
38	M59A	Z	-.467	-.467	0	%100
39	M63	X	-.162	-.162	0	%100
40	M63	Z	-.28	-.28	0	%100
41	M64	X	0	0	0	%100
42	M64	Z	0	0	0	%100
43	M66	X	0	0	0	%100
44	M66	Z	0	0	0	%100
45	M68	X	-.162	-.162	0	%100
46	M68	Z	-.28	-.28	0	%100
47	M69	X	-.494	-.494	0	%100
48	M69	Z	-.856	-.856	0	%100
49	M71	X	-.52	-.52	0	%100
50	M71	Z	-.902	-.902	0	%100
51	M76A	X	-.383	-.383	0	%100
52	M76A	Z	-.664	-.664	0	%100
53	M77A	X	0	0	0	%100
54	M77A	Z	0	0	0	%100
55	M78	X	0	0	0	%100
56	M78	Z	0	0	0	%100
57	M79A	X	0	0	0	%100
58	M79A	Z	0	0	0	%100
59	M82	X	-.269	-.269	0	%100
60	M82	Z	-.467	-.467	0	%100
61	M83A	X	-.269	-.269	0	%100
62	M83A	Z	-.467	-.467	0	%100
63	M87	X	-.647	-.647	0	%100
64	M87	Z	-1.12	-1.12	0	%100
65	M88A	X	-.494	-.494	0	%100
66	M88A	Z	-.856	-.856	0	%100
67	M90	X	-.52	-.52	0	%100
68	M90	Z	-.902	-.902	0	%100
69	M92A	X	-.647	-.647	0	%100
70	M92A	Z	-1.12	-1.12	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
71	M93	X	-.494	-.494	0	%100
72	M93	Z	-.856	-.856	0	%100
73	M95	X	-.52	-.52	0	%100
74	M95	Z	-.902	-.902	0	%100
75	M82A	X	-.283	-.283	0	%100
76	M82A	Z	-.49	-.49	0	%100
77	M91B	X	0	0	0	%100
78	M91B	Z	0	0	0	%100
79	MP5A	X	-.256	-.256	0	%100
80	MP5A	Z	-.444	-.444	0	%100
81	MP4A	X	-.256	-.256	0	%100
82	MP4A	Z	-.444	-.444	0	%100
83	MP3A	X	-.256	-.256	0	%100
84	MP3A	Z	-.444	-.444	0	%100
85	MP2A	X	-.31	-.31	0	%100
86	MP2A	Z	-.537	-.537	0	%100
87	MP1A	X	-.31	-.31	0	%100
88	MP1A	Z	-.537	-.537	0	%100
89	MP5C	X	-.256	-.256	0	%100
90	MP5C	Z	-.444	-.444	0	%100
91	MP4C	X	-.256	-.256	0	%100
92	MP4C	Z	-.444	-.444	0	%100
93	MP3C	X	-.256	-.256	0	%100
94	MP3C	Z	-.444	-.444	0	%100
95	MP2C	X	-.31	-.31	0	%100
96	MP2C	Z	-.537	-.537	0	%100
97	MP1C	X	-.31	-.31	0	%100
98	MP1C	Z	-.537	-.537	0	%100
99	MP5B	X	-.256	-.256	0	%100
100	MP5B	Z	-.444	-.444	0	%100
101	MP4B	X	-.256	-.256	0	%100
102	MP4B	Z	-.444	-.444	0	%100
103	3	X	-.256	-.256	0	%100
104	3	Z	-.444	-.444	0	%100
105	MP2B	X	-.31	-.31	0	%100
106	MP2B	Z	-.537	-.537	0	%100
107	MP1B	X	-.31	-.31	0	%100
108	MP1B	Z	-.537	-.537	0	%100
109	OVP	X	-.209	-.209	0	%100
110	OVP	Z	-.363	-.363	0	%100
111	M108	X	-.232	-.232	0	%100
112	M108	Z	-.403	-.403	0	%100
113	M116	X	0	0	0	%100
114	M116	Z	0	0	0	%100
115	M124	X	-.232	-.232	0	%100
116	M124	Z	-.403	-.403	0	%100
117	M132	X	-.304	-.304	0	%100
118	M132	Z	-.527	-.527	0	%100
119	M133	X	0	0	0	%100
120	M133	Z	0	0	0	%100
121	M134	X	-.304	-.304	0	%100
122	M134	Z	-.527	-.527	0	%100
123	M139	X	-.012	-.012	0	%100
124	M139	Z	-.02	-.02	0	%100
125	M140	X	-.012	-.012	0	%100
126	M140	Z	-.02	-.02	0	%100
127	MP3B	X	-.256	-.256	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
128	MP3B	Z	-.444	-.444	0	%100
129	M148	X	-.012	-.012	0	%100
130	M148	Z	-.02	-.02	0	%100
131	M149	X	-.012	-.012	0	%100
132	M149	Z	-.02	-.02	0	%100

Member Distributed Loads (BLC 81 : BLC 39 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M82	Y	-1.601	-4.064	0	9.988
2	M82	Y	-4.064	-6.635	9.988	19.976
3	M82	Y	-6.635	-7.874	19.976	29.964
4	M82	Y	-7.874	-6.292	29.964	39.953
5	M82	Y	-6.292	-3.33	39.953	49.941
6	M83A	Y	-3.336	-6.325	0	9.988
7	M83A	Y	-6.325	-7.938	9.988	19.976
8	M83A	Y	-7.938	-6.771	19.976	29.964
9	M83A	Y	-6.771	-4.259	29.964	39.953
10	M83A	Y	-4.259	-1.808	39.953	49.941
11	M51B	Y	-1.812	-4.256	0	9.988
12	M51B	Y	-4.256	-6.773	9.988	19.976
13	M51B	Y	-6.773	-7.943	19.976	29.964
14	M51B	Y	-7.943	-6.32	29.964	39.953
15	M51B	Y	-6.32	-3.329	39.953	49.941
16	M52B	Y	-3.33	-6.293	0	9.988
17	M52B	Y	-6.293	-7.874	9.988	19.976
18	M52B	Y	-7.874	-6.636	19.976	29.964
19	M52B	Y	-6.636	-4.066	29.964	39.953
20	M52B	Y	-4.066	-1.597	39.953	49.941
21	M58A	Y	-1.601	-4.064	0	9.988
22	M58A	Y	-4.064	-6.635	9.988	19.976
23	M58A	Y	-6.635	-7.874	19.976	29.964
24	M58A	Y	-7.874	-6.292	29.964	39.953
25	M58A	Y	-6.292	-3.33	39.953	49.941
26	M59A	Y	-3.336	-6.325	0	9.988
27	M59A	Y	-6.325	-7.938	9.988	19.976
28	M59A	Y	-7.938	-6.771	19.976	29.964
29	M59A	Y	-6.771	-4.259	29.964	39.953
30	M59A	Y	-4.259	-1.808	39.953	49.941

Member Distributed Loads (BLC 82 : BLC 40 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M82	Y	-3.491	-8.858	0	9.988
2	M82	Y	-8.858	-14.465	9.988	19.976
3	M82	Y	-14.465	-17.166	19.976	29.964
4	M82	Y	-17.166	-13.716	29.964	39.953
5	M82	Y	-13.716	-7.259	39.953	49.941
6	M83A	Y	-7.272	-13.788	0	9.988
7	M83A	Y	-13.788	-17.305	9.988	19.976
8	M83A	Y	-17.305	-14.76	19.976	29.964
9	M83A	Y	-14.76	-9.284	29.964	39.953
10	M83A	Y	-9.284	-3.943	39.953	49.941
11	M51B	Y	-3.95	-9.278	0	9.988
12	M51B	Y	-9.278	-14.766	9.988	19.976
13	M51B	Y	-14.766	-17.315	19.976	29.964
14	M51B	Y	-17.315	-13.779	29.964	39.953
15	M51B	Y	-13.779	-7.256	39.953	49.941

Member Distributed Loads (BLC 82 : BLC 40 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
16	M52B	Y	-7.259	-13.718	0	9.988
17	M52B	Y	-13.718	-17.164	9.988	19.976
18	M52B	Y	-17.164	-14.467	19.976	29.964
19	M52B	Y	-14.467	-8.863	29.964	39.953
20	M52B	Y	-8.863	-3.482	39.953	49.941
21	M58A	Y	-3.491	-8.858	0	9.988
22	M58A	Y	-8.858	-14.465	9.988	19.976
23	M58A	Y	-14.465	-17.166	19.976	29.964
24	M58A	Y	-17.166	-13.716	29.964	39.953
25	M58A	Y	-13.716	-7.259	39.953	49.941
26	M59A	Y	-7.272	-13.788	0	9.988
27	M59A	Y	-13.788	-17.305	9.988	19.976
28	M59A	Y	-17.305	-14.76	19.976	29.964
29	M59A	Y	-14.76	-9.284	29.964	39.953
30	M59A	Y	-9.284	-3.943	39.953	49.941

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N139	N141	N118	N117	Y	Two Way	-.005
2	N87C	N87B	N7	N6	Y	Two Way	-.005
3	N111	N113	N90	N89	Y	Two Way	-.005

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N139	N141	N118	N117	Y	Two Way	-.011
2	N87C	N87B	N7	N6	Y	Two Way	-.011
3	N111	N113	N90	N89	Y	Two Way	-.011

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	N3	max	2213.162	11	2255.256	17	1552.96	12	-.474	11	1.713	8	3.891	29
2		min	-2048.385	5	579.98	11	-1439.633	6	-2.702	29	-1.688	2	.497	11
3	N87D	max	1039.258	10	2483.045	13	2689.297	1	4.862	13	1.916	4	.313	5
4		min	-1042.749	4	661.774	7	-2861.604	7	.574	7	-1.88	10	-.133	11
5	N115	max	2355.224	9	2355.248	21	1338.633	3	-.191	3	1.633	12	-.662	3
6		min	-2515.491	3	582.009	3	-1276.943	9	-2.187	21	-1.622	6	-4.251	21
7	Totals:	max	5296.298	10	6822.915	14	5242.439	1						
8		min	-5296.282	4	3161.605	8	-5242.432	7						

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

	Member	Shape	Code Check	Loc[in]	LC	Shear C...	Lo...	Dir	LC	phi*Pn...	phi*...	phi*...	phi*...	...	Eqn
1	M1	PIPE 3.0	.147	96.875	24	.080	6.25		11	28250....	65205	5.749	5.749	...	H1-...
2	M4	HSS4X4X4	.296	0	31	.085	0	y	42	124657...	1395..	16.181	16.181	...	H1-...
3	M10	HSS4X4X4	.150	28.5	18	.052	28.5	y	14	136263...	1395..	16.181	16.181	...	H1-...
4	M43	HSS4X4X4	.162	0	16	.048	0	y	19	136263...	1395..	16.181	16.181	...	H1-...
5	M46	PL1/2x6	.242	6.188	12	.182	6....	y	26	66009....	97200	1.012	12.15	...	H1-...
6	M51B	L2x2x3	.189	49.941	6	.011	49...	y	20	9823.1...	2339..	.558	1.091	...	H2-1
7	M52B	L2x2x3	.158	49.941	4	.014	49...	y	13	9823.1...	2339..	.558	1.092	...	H2-1
8	M76	PL3/8x6	.313	0	6	.174	0	y	22	70647....	72900	.57	9.113	...	H1-...
9	M77	PL3/8x6	.337	2	12	.316	0	y	18	71583....	72900	.57	9.113	...	H1-...
10	M80	PL1/2x6	.069	0	12	.150	0	y	27	96757....	97200	1.012	12.15	...	H1-...
11	M84	PL3/8x6	.320	0	4	.238	0	y	22	70647....	72900	.57	9.113	...	H1-...

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

	Member	Shape	Code Check	Loc[in]	LC	Shear C...	Lo...	Dir	LC	phi*Pn...	phi*...	phi*...	phi*...	...	Eqn
12	M85	PL3/8x6	.270	2	10	.327	0	y	16	71583....	72900	.57	9.113	...	H1-...
13	M91	PL1/2x6	.063	0	4	.092	1....	y	26	96757....	97200	1.012	12.15	...	H1-...
14	M52A	HSS4X4X4	.314	0	15	.080	0	y	15	124657...	1395..	16.181	16.181	...	H1-...
15	M53	HSS4X4X4	.153	28.5	14	.053	2....	z	2	136263...	1395..	16.181	16.181	...	H1-...
16	M54	HSS4X4X4	.169	0	24	.051	0	y	15	136263...	1395..	16.181	16.181	...	H1-...
17	M55	PL1/2x6	.256	6.188	8	.155	6....	y	22	66009....	97200	1.012	12.15	...	H1-...
18	M58A	L2x2x3	.202	49.941	2	.010	49...	y	16	9823.1...	2339..	.558	1.092	...	H2-1
19	M59A	L2x2x3	.156	49.941	12	.014	49...	y	21	9823.1...	2339..	.558	1.09	...	H2-1
20	M63	PL3/8x6	.345	0	2	.176	0	y	19	70647....	72900	.57	9.113	...	H1-...
21	M64	PL3/8x6	.355	2	8	.322	0	y	14	71583....	72900	.57	9.113	...	H1-...
22	M66	PL1/2x6	.073	0	8	.071	0	y	22	96757....	97200	1.012	12.15	...	H1-...
23	M68	PL3/8x6	.303	0	12	.250	0	y	18	70647....	72900	.57	9.113	...	H1-...
24	M69	PL3/8x6	.262	2	6	.345	0	y	13	71583....	72900	.57	9.113	...	H1-...
25	M71	PL1/2x6	.062	1.344	1	.074	1....	y	22	96757....	97200	1.012	12.15	...	H1-...
26	M76A	HSS4X4X4	.304	0	23	.079	0	y	22	124657...	1395..	16.181	16.181	...	H1-...
27	M77A	HSS4X4X4	.158	28.5	22	.054	28.5	y	18	136263...	1395..	16.181	16.181	...	H1-...
28	M78	HSS4X4X4	.168	0	20	.050	0	y	23	136263...	1395..	16.181	16.181	...	H1-...
29	M79A	PL1/2x6	.263	6.188	4	.153	6....	y	19	66009....	97200	1.012	12.15	...	H1-...
30	M82	L2x2x3	.199	49.941	10	.010	49...	y	13	9823.1...	2339..	.558	1.092	...	H2-1
31	M83A	L2x2x3	.167	49.941	8	.014	49...	y	17	9823.1...	2339..	.558	1.09	...	H2-1
32	M87	PL3/8x6	.358	0	10	.185	0	y	14	70647....	72900	.57	9.113	...	H1-...
33	M88A	PL3/8x6	.362	2	4	.332	0	y	22	71583....	72900	.57	9.113	...	H1-...
34	M90	PL1/2x6	.076	0	4	.072	0	y	7	96757....	97200	1.012	12.15	...	H1-...
35	M92A	PL3/8x6	.327	0	8	.245	0	y	14	70647....	72900	.57	9.113	...	H1-...
36	M93	PL3/8x6	.277	2	2	.340	0	y	21	71583....	72900	.57	9.113	...	H1-...
37	M95	PL1/2x6	.065	0	8	.071	1....	y	18	96757....	97200	1.012	12.15	...	H1-...
38	M82A	PIPE_3.0	.148	53.125	20	.083	14...		7	28250....	65205	5.749	5.749	...	H1-...
39	M91B	PIPE_3.0	.143	96.875	16	.083	6.25		3	28250....	65205	5.749	5.749	...	H1-...
40	MP5A	PIPE_2.0	.196	37.5	17	.056	17...		5	20866....	32130	1.872	1.872	...	H1-...
41	MP4A	PIPE_2.0	.268	37.5	17	.069	37.5		6	20866....	32130	1.872	1.872	...	H1-...
42	MP3A	PIPE_2.0	.191	37.5	10	.033	17...		10	20866....	32130	1.872	1.872	...	H1-...
43	MP2A	PIPE_2.5	.185	37.5	22	.050	37.5		8	37773....	50715	3.596	3.596	...	H1-...
44	MP1A	PIPE_2.5	.213	38.25	1	.065	38...		4	37773....	50715	3.596	3.596	...	H1-...
45	MP5C	PIPE_2.0	.197	37.5	13	.058	8.25		2	20866....	32130	1.872	1.872	...	H1-...
46	MP4C	PIPE_2.0	.274	37.5	13	.075	37.5		2	20866....	32130	1.872	1.872	...	H1-...
47	MP3C	PIPE_2.0	.182	37.5	7	.038	37.5		1	20866....	32130	1.872	1.872	...	H1-...
48	MP2C	PIPE_2.5	.176	37.5	18	.049	37.5		4	37773....	50715	3.596	3.596	...	H1-...
49	MP1C	PIPE_2.5	.211	38.25	9	.065	38...		12	37773....	50715	3.596	3.596	...	H1-...
50	MP5B	PIPE_2.0	.198	37.5	21	.055	17...		9	20866....	32130	1.872	1.872	...	H1-...
51	MP4B	PIPE_2.0	.273	37.5	21	.075	37.5		10	20866....	32130	1.872	1.872	...	H1-...
52	3	PIPE_2.0	.209	37.5	3	.110	37.5		3	20866....	32130	1.872	1.872	...	H1-...
53	MP2B	PIPE_2.5	.175	37.5	14	.051	37.5		24	37773....	50715	3.596	3.596	...	H1-...
54	MP1B	PIPE_2.5	.213	38.25	4	.065	38...		7	37773....	50715	3.596	3.596	...	H1-...
55	OVP	PIPE_2.0	.139	30	12	.018	30		12	28843....	32130	1.872	1.872	...	H1-...
56	M108	PIPE_2.5	.165	23.438	7	.044	23...		8	14558....	50715	3.596	3.596	...	H1-...
57	M116	PIPE_2.5	.172	23.437	3	.044	12...		9	14558....	50715	3.596	3.596	...	H1-...
58	M124	PIPE_2.5	.177	23.437	11	.039	23...		11	14558....	50715	3.596	3.596	...	H1-...
59	M132	L3X3X4	.329	30.365	7	.027	0	y	1	40486....	46656	1.688	3.756	...	H2-1
60	M133	L3X3X4	.329	30.365	11	.026	0	y	11	40486....	46656	1.688	3.756	...	H2-1
61	M134	L3X3X4	.327	30.365	9	.028	0	y	9	40486....	46656	1.688	3.756	...	H2-1
62	M139	SR_0.5	.678	0	15	.394	0		20	5610.8...	6350.4	.052	.052	...	H1-...
63	M140	SR_0.5	.676	0	15	.396	0		14	5610.8...	6350.4	.052	.052	...	H1-...
64	MP3B	PIPE_2.0	.094	30	4	.036	17...		2	20866....	32130	1.872	1.872	...	H1-...
65	M148	SR_0.5	.678	0	15	.379	0		15	5610.8...	6350.4	.052	.052	...	H1-...
66	M149	SR_0.5	.674	0	15	.379	0		15	5610.8...	6350.4	.052	.052	...	H1-...

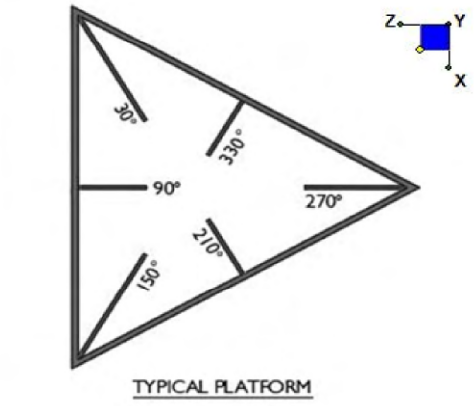
Client:	Verizon Wirless	Date:	9/30/2021
Site Name:	Groton 6 CT		
Project No.	21781065A		
Title:	Mount Analysis	Page:	1

Version 3.1

I. Mount-to-Tower Connection Check

RISA Model Data

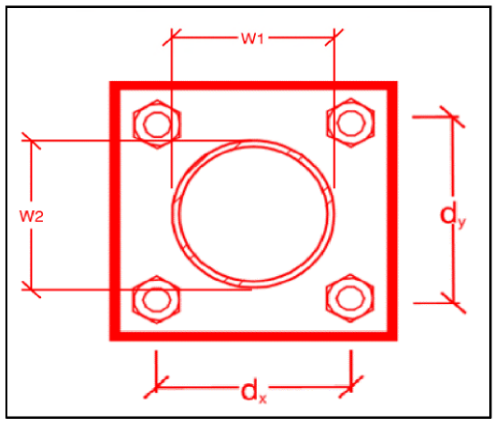
Nodes *(labeled per RISA)*	Orientation *(per graphic of typical platform)*
N115	30
N87D	270
N3	150



TYPICAL PLATFORM

Tower Connection Bolt Checks

Any moment resistance?:	yes
Bolt Quantity per Reaction:	4
d_x (in) *(Delta X of typ. bolt config. sketch)* :	6
d_y (in) *(Delta Y of typ. bolt config. sketch)* :	6
Bolt Type:	A325N
Bolt Diameter (in):	0.625
Required Tensile Strength (kips):	19.8
Required Shear Strength (kips):	4.0
Tensile Strength / bolt (kips):	20.7
Shear Strength / bolt (kips):	12.4
Tensile Capacity Overall:	**23.9%***
Shear Capacity Overall:	**8.1%**



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

Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:	Rect
Plate Width (in):	8
Plate Height (in):	8
W1 (in):	4
W2 (in):	4
Fy (ksi, plate):	36
t_{Plate} (in):	0.5
Weld Size (1/16 in):	4
Phi*Rn (kip/in):	5.57
Required Weld Strength (kip/in):	2.76
Plate Bending Capacity:	**63.0%**
Weld Capacity:	**49.6%**

Max Plate Bending Strengths

Mu_{xx} *(kip-in)* :	9.5
Phi*Mn_{xx} *(kip-in)* :	16.2
Mu_{yy} *(kip-in)* :	0.7
Phi*Mn_{yy} *(kip-in)* :	16.2

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

Purpose – to provide MASER CONSULTING CONNECTICUT the proper documentation in order to complete the required Mount Desktop review of the Post Modification Inspection Report.

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

Base Requirements:

- Any special photos outside of the standard requirements will be indicated on the drawings
- Provide "as built drawings" showing contractor's name, preparer's signature, and date. Any deviations from the drawings (proposed modification) must be shown.
- Notation that all hardware was properly installed, and the existing hardware was inspected for any issues.
- Verification that loading is as communicated in the modification drawings. NOTE If loading is different than what is conveyed in the modification drawing contact MASER CONSULTING CONNECTICUT immediately.
- Each photo should be time and date stamped
- Photos should be high resolution and submitted in a Zip File and should be organized in the file structure as depicted in Schedule A attached.
- Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope.
- The photos in the file structure should be uploaded **to** https://pmi.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 modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed

- *Photos taken at Mount Elevation*
    - Photos showing each individual sector before and also after installation of modifications. Each entire sector must be in one photo to show in the inter-connection of members.
        - 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
    - Close-up photos of each installed modification per the modification drawings; pictures should also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
    - Photos showing the measurements of the installed modification member sizes (i.e. lengths, widths, depths, diameters, thicknesses)
    - Photos showing the elevation or distances of the installed modifications from the appropriate reference locations shown in the modification drawings
    - Photos showing the installed modifications onto the tower with tape drop measurements (if applicable) (i.e. ring/collar mounts, tie-backs, V-bracing kits, etc.); if the existing mount elevation needs to be changed according to the modification drawings, a tape drop measurement shall be provided before the elevation change
    - Photos showing the safety climb wire rope above and below the mount prior to modification.
    - Photos showing the climbing facility and safety climb if present.

Material Certification:

- Materials utilized must be as per specification on the drawings or the equivalent as validated by MASER CONSULTING CONNECTICUT.
    - If the drawings are as specified on the drawings
        - The contractor should provide the packing list or the materials utilized to perform the mount modification
    - If an equivalent is utilized
        - It is required that the MASER CONSULTING CONNECTICUT certification of such is included in the contractor submission package. There may be an additional charge for this certification if the equivalent submission doesn't meet specifications as prescribed in the drawings.
- The contractor must certify that the materials meet these specifications by one of these methods.

☐ The Material utilized was as specified on the MASER CONSULTING CONNECTICUT Mount Modification Drawings and included
in the Material certification folder is a packing list or invoice for these materials

☐ The material utilized was an "equivalent" and included as part of the contractor submission is the MASER CONSULTING CONNECTICUT certification, invoices, or specifications validating accepted status

Certifying Individual: Company _____

Name _____

Signature _____

Antenna & equipment placement and Geometry Confirmation:

- The contractor must certify that the antenna & equipment placement and geometry is in accordance with the antenna placement diagrams as included in this mount analysis.

☐ The contractor certifies that the photos support and the equipment on the mount is as depicted on the antenna placement diagrams as included in this mount analysis.

☐ The contractor notes that the equipment on the mount is not in accordance with the antenna placement diagrams and has accordingly marked up the diagrams or provided a diagram outlining the differences.

Certifying Individual: Company _____

Name _____

Signature _____

Special Instructions / Validation as required from the MA or Mod Drawings:

Issue:

Contractor shall install proposed OVP on existing OVP pipe, 12" from top of pipe. If present, contractor shall inspect climbing facilities and ensure that the safety climb is in good condition. Contractor shall install safety climb wire rope guide (Part #: Site Pro 1 - 120-123/317 or EOR approved equal) in locations where the wire rope is rubbing against mount to tower attachments. Contractor shall provide photos of safety climb wire rope guide installation.

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

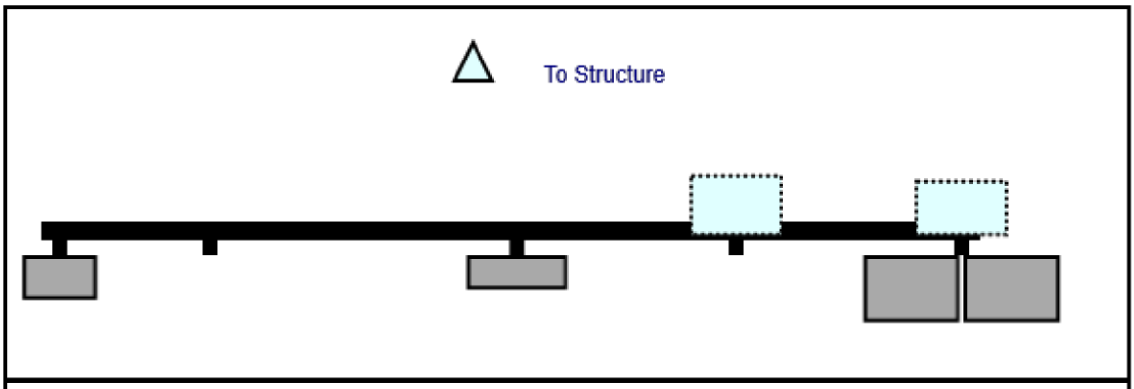
Structure: 535825-VZW - GROTON 6 CT

Sector: **A** 9/30/2021

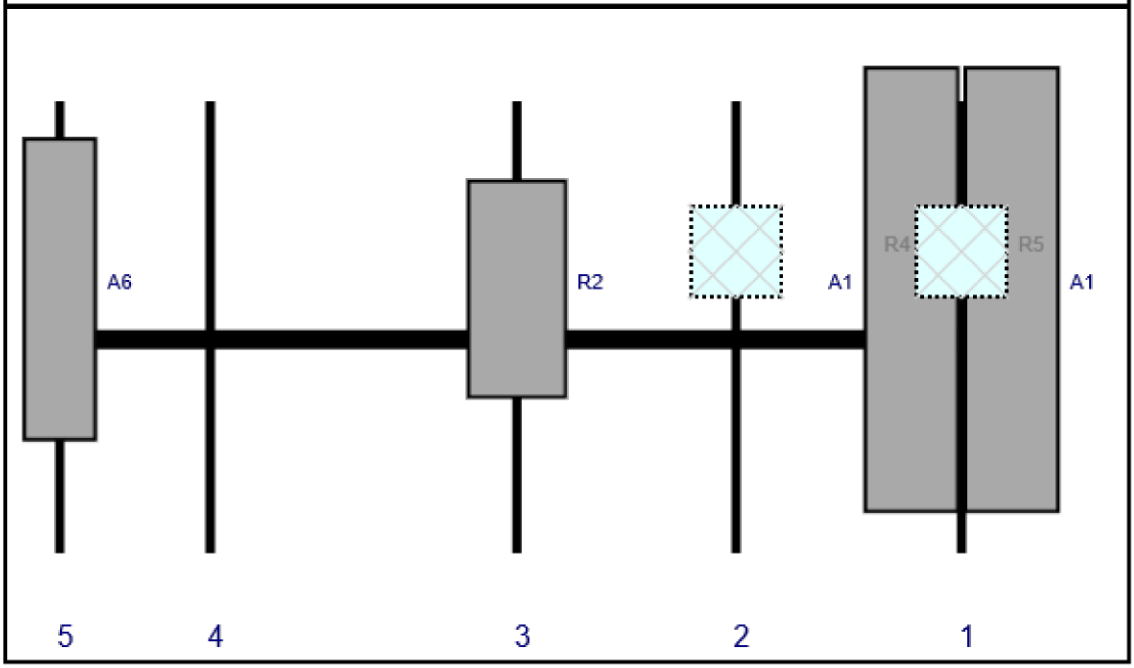
Structure Type: Monopole 10099132

Mount Elev: 147.50 Page: 1

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
A1	MX06FRO660-02	71.3	15.4	147	1	a	Front	30	8	Added	
A1	MX06FRO660-02	71.3	15.4	147	1	b	Front	30	-8	Added	
R5	RF4440d-13A	15	15	147	1	a	Behind	24	0	Added	
R4	RF4439d-25A	15	15	111	2	a	Behind	24	0	Added	
R2	MT6407-77A	35.1	16.1	76	3	a	Front	30	0	Added	
A6	LNX-6512DS-A1M	48.5	11.9	3	5	a	Front	30	0	Retained	

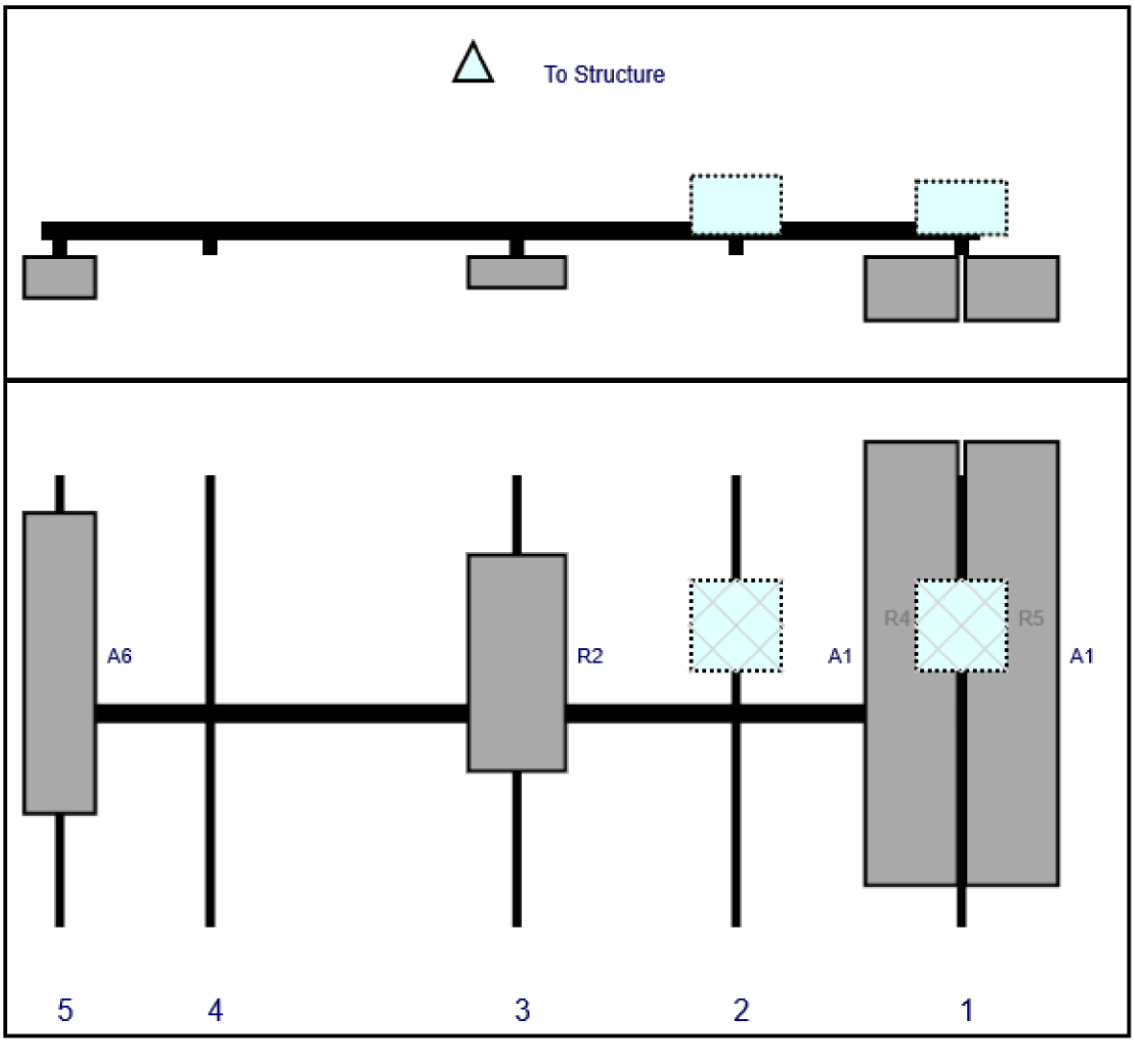
Sector: **B** 9/30/2021

Structure Type: Monopole 10099132

Mount Elev: 147.50 Page: 2

Plan View

Front View
Looking at Structure



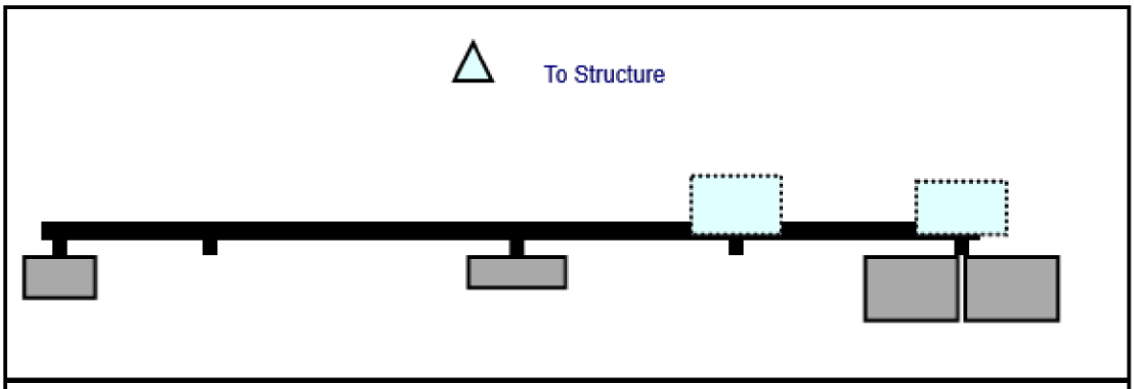
Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A1	MX06FRO660-02	71.3	15.4	147	1	a	Front	30	8	Added	
A1	MX06FRO660-02	71.3	15.4	147	1	b	Front	30	-8	Added	
R5	RF4440d-13A	15	15	147	1	a	Behind	24	0	Added	
R4	RF4439d-25A	15	15	111	2	a	Behind	24	0	Added	
R2	MT6407-77A	35.1	16.1	76	3	a	Front	30	0	Added	
A6	LNX-6512DS-A1M	48.5	11.9	3	5	a	Front	30	0	Retained	

Sector: **C** 9/30/2021

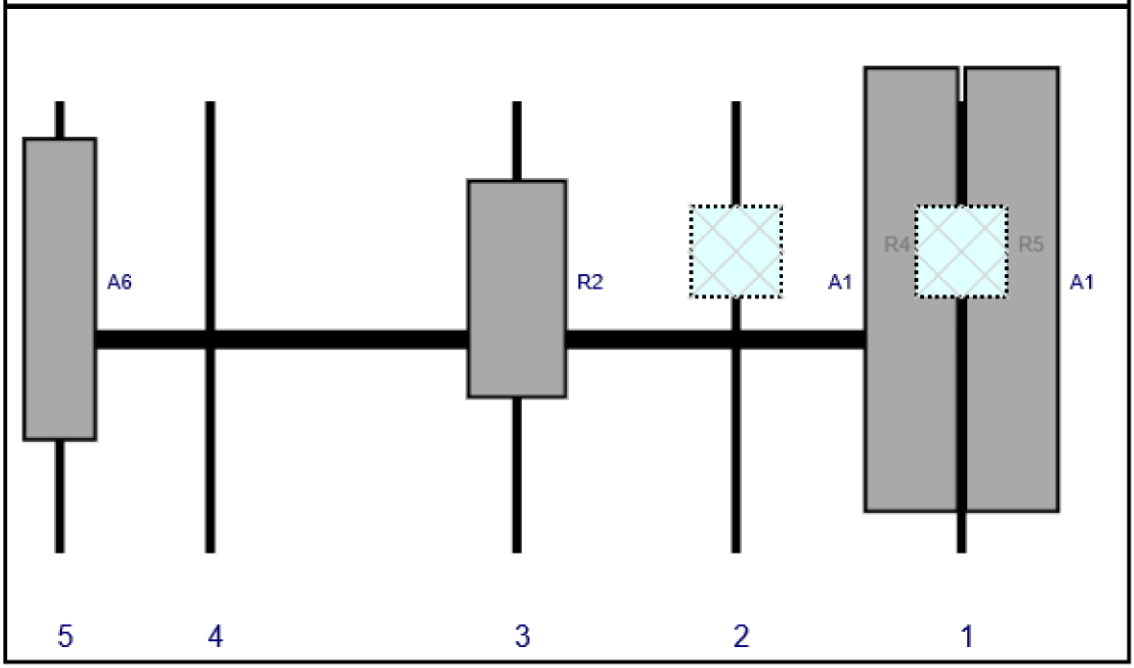
Structure Type: Monopole 10099132

Mount Elev: 147.50 Page: 3

Plan View



Front View
Looking at Structure



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R4	RF4439d-25A	15	15	111	2	a	Behind	24	0	Added	
R2	MT6407-77A	35.1	16.1	76	3	a	Front	30	0	Added	
A6	LNX-6512DS-A1M	48.5	11.9	3	5	a	Front	30	0	Retained	

Maser Consulting Connecticut

Subject	TIA-222-H Usage	
Site Information	*Site ID:*	*535825-VZW / GROTON 6 CT*
	Site Name:	*GROTON 6 CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*1662 Gold Star Memorial Hwy*
		Groton, Connecticut 06340
		New London County
	Latitude:	*41.385667°*
	Longitude:	*-72.013306°*
Structure Information	*Tower Type:*	*151-Ft Monopole*
	Mount Type:	*12.50-Ft Platform*

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. TIA-222-H is the latest revision of the TIA-222 Standard, effective as of January 01, 2018.

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

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

Sincerely,

Dejian Xu

Dejian Xu, PE
Technical Manager

verizon

MOUNT MODIFICATION DRAWINGS
EXISTING 12.50' PLATFORM

TOWER OWNER: SBA COMMUNICATIONS
TOWER OWNER SITE NUMBER: CT13073 /1257146

CARRIER SITE NAME: GROTON 6 CT
CARRIER SITE NUMBER: 535825
FUZE ID: 16486417

1662 GOLD STAR MEMORIAL HWY
GROTON, CONNECTICUT 06340
NEW LONDON COUNTY

LATITUDE: 41.38566666° N
LONGITUDE: 72.01330555° W

DESIGN CRITERIA

WIND LOADS

BASIC WIND SPEED (3 SECOND GUST), V = 127 MPH
EXPOSURE CATEGORY B
TOPOGRAPHIC CATEGORY 1
MEAN BASE ELEVATION (AMSL) = 242.31'

ICE LOADS

ICE WIND SPEED (3 SECOND GUST), V = 50 MPH
ICE THICKNESS = 1.00 IN

SEISMIC LOADS

SEISMIC DESIGN CATEGORY B
SHORT TERM MCER GROUND MOTION, S_S = .188
LONG TERM MCER GROUND MOTION, S_1 = .052

PROJECT INFORMATION

APPLICANT/LESSEE

COMPANY: VERIZON WIRELESS

CLIENT REPRESENTATIVE

COMPANY: VERIZON WIRELESS

PROJECT MANAGER

COMPANY: MASER CONSULTING CONNECTICUT
CONTACT: PETER ALBANO
PHONE: 856-797-0412
E-MAIL: PETER.ALBANO@COLLIERSENGINEERING.COM

CONTRACTOR PMI REQUIREMENTS

PMI LOCATION: HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #: 10099132
VZW LOCATION CODE (PSLC): 535825
ANALYSIS DATE: 9/30/2021

PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

SHEET INDEX

SHEET	DESCRIPTION
ST-1	TITLE SHEET
SBOM-1	BILL OF MATERIALS
SGN-1	GENERAL NOTES
SCF-1	CLIMBING FACILITY DETAIL
SS-1	MODIFICATION DETAILS
SS-2	MOUNT PHOTOS
	SPECIFICATION SHEETS

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FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

SCALE: AS SHOWN | JOB NUMBER: 21780165A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	9/30/2021	ISSUED FOR CONSTRUCTION	AS	DH

STATE OF CONNECTICUT
DEJIAN XU
No. 33733
LICENSED PROFESSIONAL ENGINEER
09/30/2021

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

SITE NAME:
GROTON 6 CT
535825
1662 GOLD STAR MEMORIAL HWY
GROTON, CONNECTICUT 06340
NEW LONDON COUNTY

MT. LAUREL OFFICE
2000 Atlantic Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE: TITLE SHEET
SHEET NUMBER: ST-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

BILL OF MATERIALS

SECTION 1 - VZWSMART KITS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
1	VZWSMART	VZWSMART-PLK1	SUPPORT RAIL KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1	504	504
3		VZWSMART-MSK1	CROSSOVER PLATE		14	42
1		VZSMART-P40-238X072	STANDARD PIPE		22	22
3		VZWSMART-P40-278X072	STANDARD PIPE		34.8	104.4

SECTION 2 - OTHER REQUIRED PARTS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
3	SITE PRO 1	SP219-H	PIPE MOUNT KIT			
1	SITE PRO 1	SCP10K	PIPE TO PIPE CLAMP SET	1-1/2" TO 5" PIPE 1/2" THICK CLAMP	13.7	13.7
					TOTAL:	686.1

VZWSMART KITS - APPROVED VENDORS

COMMSCOPE	
CONTACT	SALVADOR ANGUIANO
PHONE	(817) 304-7492
EMAIL	SALVADOR.ANGUIANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM
METROSITE FABRICATORS, LLC	
CONTACT	KENT RAMEY
PHONE	(706) 335-7045 (O), (706) 982-9788 (M)
EMAIL	KENT@METROSITELLC.COM
WEBSITE	METROSITEFABRICATORS.COM
PERFECTVISION	
CONTACT	WIRELESS SALES
PHONE	(844) 887-6723
EMAIL	WWW.PERFECT-VISION.COM
WEBSITE	WIRELESSSALES@PERFECT-VISION.COM
SABRE INDUSTRIES, INC.	
CONTACT	ANGIE WELCH
PHONE	(866) 428-6937
EMAIL	AKWELCH@SABREINDUSTRIES.COM
WEBSITE	WWW.SABRESITESOLUTIONS.COM
SITE PRO 1	
CONTACT	PAULA BOSWELL
PHONE	(972) 236-9843
EMAIL	PAULA.BOSWELL@VALMONT.COM
WEBSITE	WWW.SITEPRO1.COM

NOTES:

1. THE MANUFACTURERS LISTED ARE THE APPROVED VENDORS FOR THE VZW MOUNT KITS. EACH MANUFACTURER WILL BE AWARE OF WHICH KITS HAVE BEEN THROUGH THE VZW APPROVAL PROCESS AND THEY ARE IN TURN APPROVED TO SELL. PLEASE NOTE THAT THE MATERIAL UTILIZED ON THE MOUNT MODIFICATIONS WILL BE REVIEWED AS A PART OF THE DESKTOP PMI COMPLETED BY THE SMART TOOL VENDOR. IT WILL BE REQUIRED THAT THE VZW KITS SPECIFIED ARE UTILIZED IN THE MODIFICATIONS.
2. ALL MATERIALS REQUIRED FOR THE DESIGNED MODIFICATIONS BUT NOT LISTED IN THIS SHEET ARE ASSUMED TO BE PROVIDED BY THE CONTRACTOR.

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NEW LONDON COUNTY

MT. LAUREL OFFICE
2100 Multatic Drive
Suite 110
Mount Laurel, NJ 08054
Phone: 856.797.1412
Fax: 856.722.1120

SHEET TITLE
BILL OF MATERIALS

SHEET NUMBER
SBOM-1

PROJECT NOTES

1. SEE MODIFICATION NOTES

2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES OR OTHER PUBLIC/GOVERNING AUTHORITIES.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.

4. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE AS A RESULT OF CONSTRUCTION OF THIS FACILITY AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.

6. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

7. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CONSTRUCTION DRAWINGS.

8. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.

9. SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY POTENTIALLY DANGEROUS EXPOSURE LEVELS.

10. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.

11. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).

GENERAL NOTES

1. THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE TELECOMMUNICATIONS INDUSTRY STANDARD TIA-222-H. MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES.

2. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING STRUCTURES. ANY DAMAGE TO EXISTING STRUCTURES AS A RESULT OF THE CONTRACTOR'S WORK OR FROM DAMAGE DUE TO OTHER CAUSES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.

3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK, ORDERING MATERIAL, AND PREPARING OF SHOP DRAWINGS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. IF THE CONTRACTOR DISCOVERS ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS, OR ANY CONDITIONS THAT WOULD INTERFERE WITH THE INSTALLATION OF THE MODIFICATIONS, NOTIFY THE ENGINEER IMMEDIATELY.

4. IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE.

5. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.

6. 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/TIA-322 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSI/TIA-322 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.

7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS IN ACCORDANCE WITH APPLICABLE SAFETY CODES.

8. WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 30-MPH). THE STRUCTURE SHOWN ON THE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING ERECTION. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT, SHORING, BRACING AND ANY OTHER STRUCTURAL SYSTEMS AS REQUIRED TO RESIST ALL FORCES THAT MAY OCCUR DURING HANDLING AND ERECTION UNTIL THE STRUCTURE IS FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS REQUIRED DURING CONSTRUCTION SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.

9. ALL INSTALLATIONS PERFORMED ON THIS STRUCTURE SHALL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE STANDARD FOR INSTALLATION, ALTERATION AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS, ANSI/TIA-322.

10. CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER. ALL FENCE, STONE, GEOFABRIC, GROUNDING, AND SURROUNDING GRADE SHALL BE REPLACED AND REPAIRED AS REQUIRED TO ACHIEVE OWNER APPROVAL. POSITIVE DRAINAGE AWAY FROM TOWER SITE SHALL BE MAINTAINED.

11. CONNECTIONS BETWEEN ITEMS SUPPORTED BY THE STRUCTURE AND THE STRUCTURE NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH CONNECTIONS SHALL BE DESIGNED, COORDINATED AND INSPECTED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. SUBMIT SIGNED AND SEALED CALCULATIONS DURING SHOP DRAWING REVIEW.

12. DO NOT SCALE DRAWINGS.

13. DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.

14. ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDING BUT NOT LIMITED TO ALTERED SIZE AND/OR STRENGTHS, MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING.

15. THE MOUNT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

STRUCTURAL STEEL

1. DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.
   a. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
   b. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS
   c. AISC CODE OF STANDARD PRACTICE

2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN:

CHANNELS, ANGLES, PLATES, ETC.	ASTM A36 (GR 36)
STEEL PIPE	ASTM A53 (GR 35)
BOLTS	ASTM A325
NUTS	ASTM A563
LOCK WASHERS	LOCKING STRUCTURAL GRADE

3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.

4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
   a. SUBMIT SHOP DRAWINGS TO
      PETER.ALBANO@COLLIERSENGINEERING.COM
   b. PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.

5. DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.

6. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.

7. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.

8. CONTRACTOR SHALL PROTECT CUT ENDS OF ALL FIELD-CUT STEEL WITH TWO (2) COATS OF COLD GALVANIZATION (ZINGA OR ZINC COTE).

9. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.

10. WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.

11. FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.

12. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.

13. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.

14. ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).

15. ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

WELDING NOTES

1. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AWS D1.0 (LATEST EDITION). THIS SHALL INCLUDE A CERTIFIED WELD INSPECTION (CWI) FOR ACCEPTANCE OR REJECTION OF ALL WELDING OPERATIONS, PRE, DURING, AND POST INSTALLATION, USING THE ACCEPTANCE CRITERIA OF AWS D1.1.

2. CONTRACTOR IS RESPONSIBLE FOR COMMISSIONING A THIRD PARTY CERTIFIED WELD INSPECTOR (CWI) THROUGHOUT THE ENTIRETY OF THE PROJECT. A PASSING CWI REPORT SHALL BE PROVIDED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.

3. THE CERTIFIED WELD INSPECTOR SHALL INDICATE, IN A WRITTEN CWI REPORT, THAT ALL WELDING OPERATIONS PRE, DURING, AND POST INSTALLATION WERE CONDUCTED IN ACCORDANCE WITH AWS D1.1 WITH PHOTOGRAPHS AND DOCUMENTATION SUPPORTING THE ACCEPTANCE OR REJECTION OF ALL WELDING. ALL CWI WELD INSPECTION DOCUMENTATION AND PHOTOS SHALL BE SUBMITTED DURING THE PMI.

4. IN CASES WHERE A WELD IS SPECIFIED BETWEEN TWO MEMBERS IN WHICH THERE IS A GAP IN BETWEEN, THE WELD IS TO BE BUILT-UP SUCH THAT THE SIZE OF WELD ON THE MEMBER IS EQUAL TO THAT SHOWN IN THE DRAWINGS.

5. OXY FUEL GAS WELDING OR BRAZING IS STRICTLY PROHIBITED. SPECIFICALLY, NO TORCH CUTTING IS PERMITTED ON SITE. ALL HOLES SHALL BE CUT WITH A GRINDER.

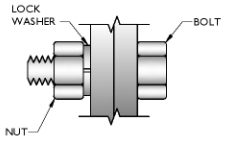
6. CONTRACTOR SHALL EXERCISE CAUTION WHEN WELDING A GALVANIZED SURFACE

BOLT SCHEDULE (IN.)

BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE DISTANCE	SPACING
1/2	9/16	9/16 x 11/16	7/8	1 1/2
5/8	11/16	11/16 x 7/8	1 1/8	1 7/8
3/4	13/16	13/16 x 1	1 1/4	2 1/4
7/8	15/16	15/16 x 1 1/8	1 1/2	2 5/8
1	1 1/16	1 1/16 x 1 5/16	1 3/4	3

WORKABLE GAGES (IN.)

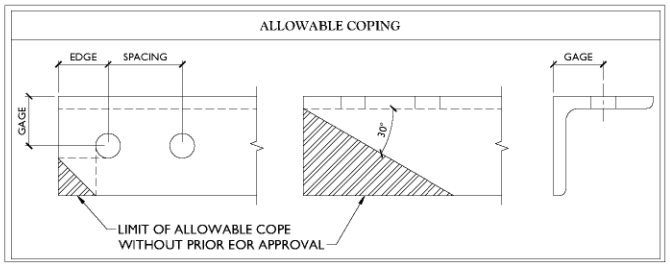
LEG	GAGE
4	2 1/2
3 1/2	2
3	1 3/4
2 1/2	1 3/8
2	1 1/8



TYP. BOLT ASSEMBLY

NOTES:

1. ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
2. THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENTS.
3. SHORT SLOT HOLES SHALL ONLY BE USED WHEN DEPICTED IN THE DRAWINGS
4. MATCH EXISTING GAGES WHEN APPLICABLE, UNLESS MINIMUM EDGE DISTANCES ARE COMPROMISED.



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811 PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE
Know what's below. Call before you dig.
FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

SCALE	JOB NUMBER
AS SHOWN	21780165A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	9/09/21	ISSUED FOR CONSTRUCTION	AE	DH

STATE OF CONNECTICUT · DEJIAN XU · No. 33733 · LICENSED PROFESSIONAL ENGINEER · 09/30/2021

SITE NAME:

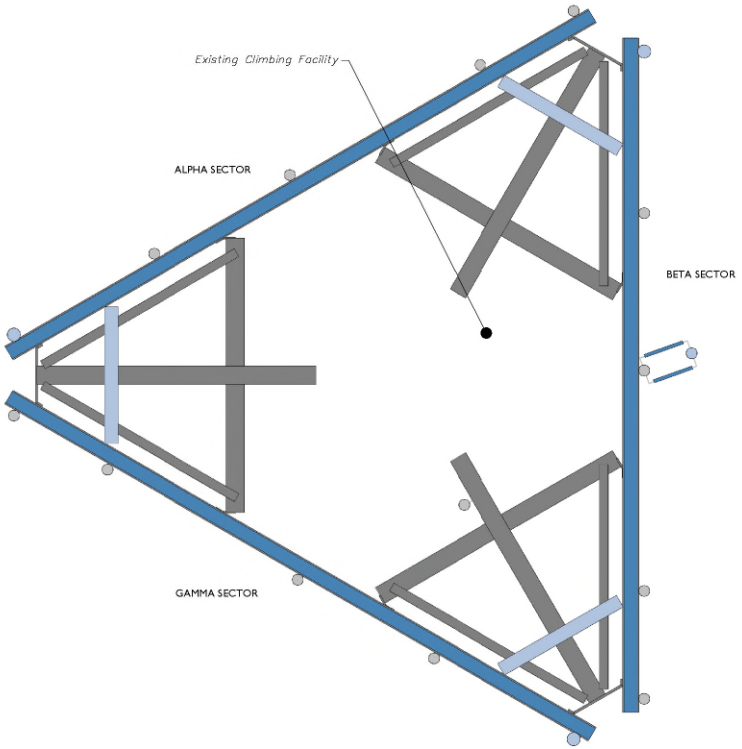
GROTON 6 CT
535825
1662 GOLD STAR MEMORIAL HWY
GROTON, CONNECTICUT 06340
NEW LONDON COUNTY

MT. LAUREL OFFICE
2000 Midlantic Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

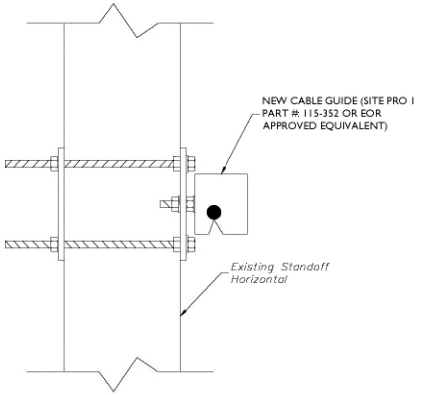
SHEET TITLE
MODIFICATION NOTES

SHEET NUMBER
SGN-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



1 CLIMBING FACILITY LOCATION
SCALE : N.T.S.



2 CABLE GUIDE COLLAR ATTACHMENT - PLAN VIEW
SCALE : N.T.S.

STRUCTURAL NOTES:

1. PER THE MOUNT MAPPING COMPLETED BY HUDSON DESIGN GROUP, LLC ON 6/8/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (147'-6") ARE IN GOOD CONDITION. MASER DOES NOT WARRANT THIS INFORMATION.

2. INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.

CLIMBING FACILITY PHOTO

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0	9/30/2021	ISSUED FOR CONSTRUCTION	AS	DH

STATE OF CONNECTICUT
DEJIAN XU
No. 33733
LICENSED PROFESSIONAL ENGINEER
09/30/2021

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SITE NAME:

GROTON 6 CT
535825

1662 GOLD STAR MEMORIAL HWY
GROTON, CONNECTICUT 06340
NEW LONDON COUNTY

MT. LAUREL OFFICE
2000 Midlantic Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.1412
Fax: 856.722.1120

SHEET TITLE
CLIMBING FACILITY DETAIL

SHEET NUMBER
SCF-1

LEGEND:

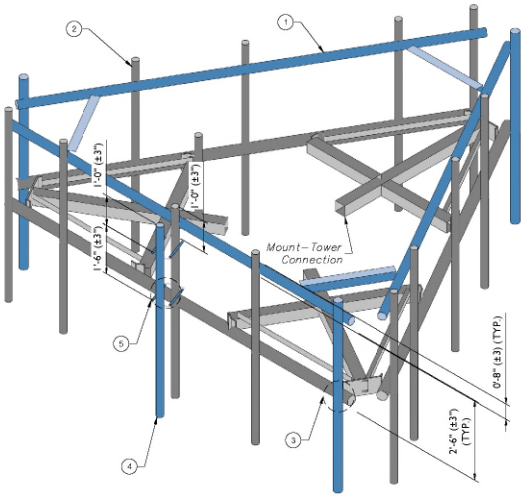
- PROPOSED
- RELOCATED
- EXISTING

MOUNT MODIFICATION SCHEDULE

NO.	ELEVATION	QUANTITY	DESCRIPTION	NOTES
1	147'-6"	1	PROPOSED SUPPORT RAIL KIT (PART #: VZWSMART-PLK1)	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1
2		3	72" LONG, P2 1/2 STD MOUNT PIPE (VZWSMART-P40-278X072)	ATTACH TO TOP PROPOSED SUPPORT RAIL WITH VZWSMART MSK1 CROSSOVER KITS.
3		3	PIPE MOUNT KIT	CONNECT NEW MOUNT PIPE TO EXISTING BOTTOM FACE HORIZONTAL WITH NEW CROSSOVER PLATES (PART #: SITE PRO 1 - SP219-H, OR EOR APPROVED EQUAL).
4		1	72" LONG, P2 STD MOUNT PIPE (VZWSMART-P40-238X072)	CONNECT NEW MOUNT PIPE TO EXISTING MOUNT PIPE WITH PIPE TO PIPE CLAMP SET (PART # DCP18K OR EOR EQUIVALENT APPROVED).
5		1	PIPE TO PIPE CLAMP SET	UNBRACED LENGTH NOT TO EXCEED 9".

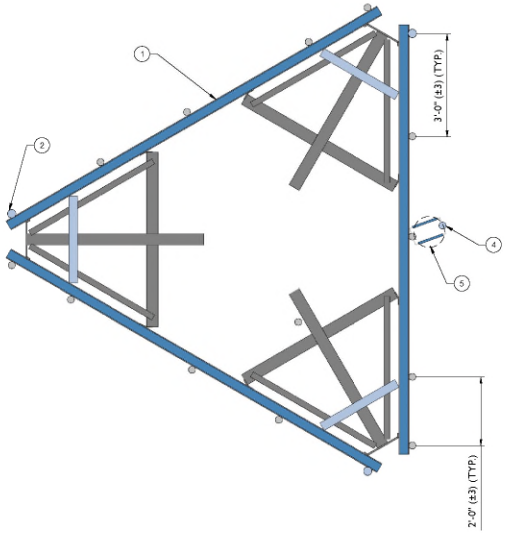
NOTES.

MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.



1 PROPOSED ISOMETRIC VIEW

SCALE : N.T.S.



2 PROPOSED PLANVIEW (TYP. ALL SECTORS)

SCALE : N.T.S.

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AS SHOWN	21780165A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	9/30/2021	ISSUED FOR CONSTRUCTION	AE	DH

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No. 33733
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09/30/2021

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SHEET TITLE
MODIFICATION DETAILS

SHEET NUMBER
SS-1

MOUNT PHOTO 1

MOUNT PHOTO 2

MOUNT PHOTO 3

MOUNT PHOTO 4

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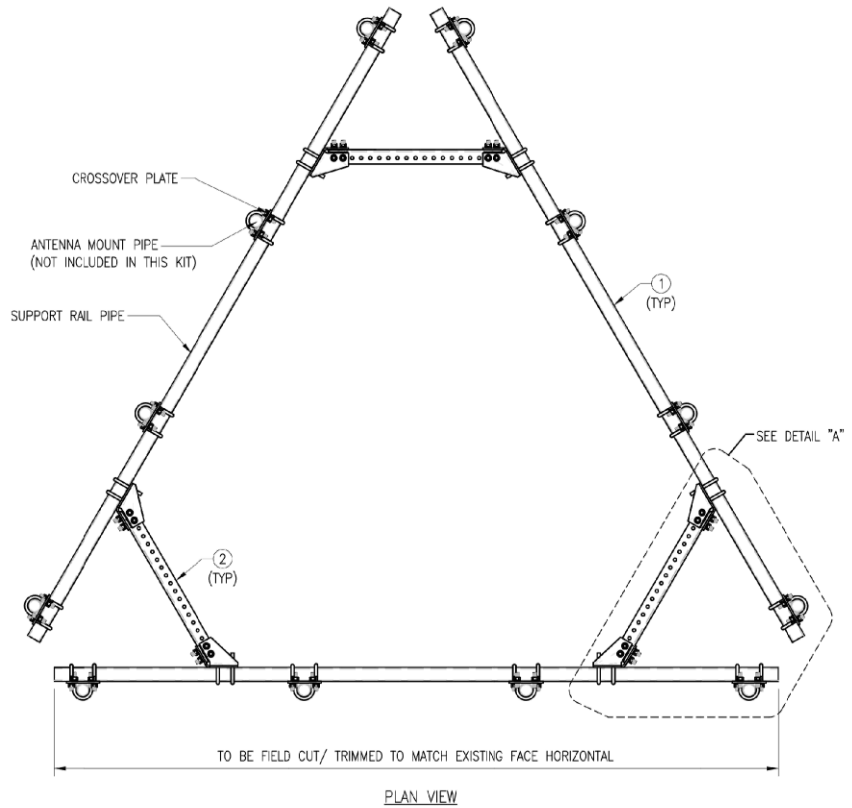
NEW LONDON COUNTY

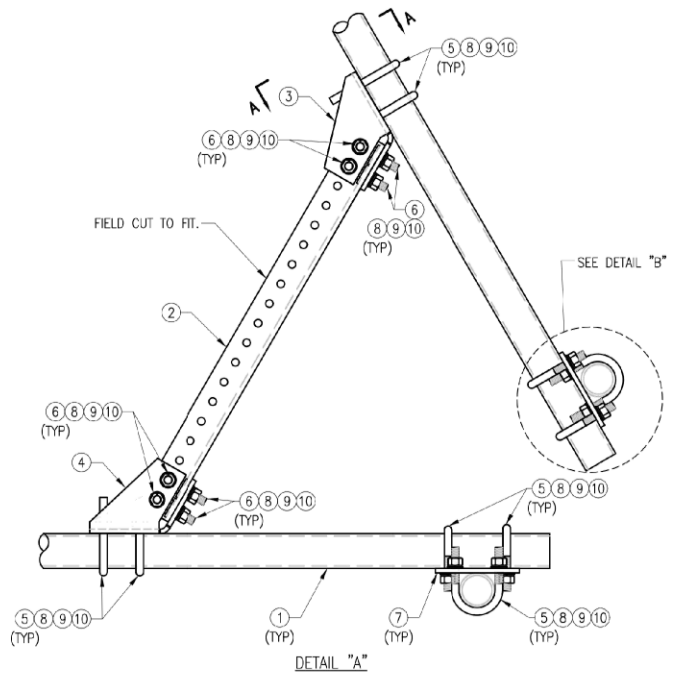
MT. LAUREL OFFICE
2150 Hurley Drive
Suite 110
Mount Laurel, NJ 08054
Phone: 856.797.1412
Fax: 856.722.1120

SHEET TITLE
MOUNT PHOTOS

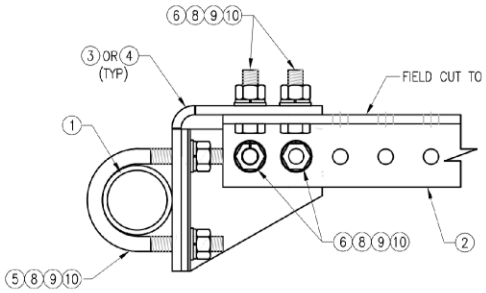
SHEET NUMBER
SS-2



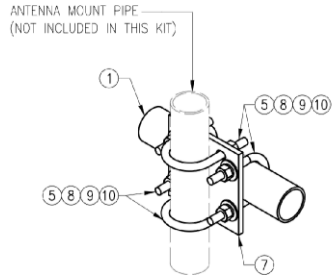
PLAN VIEW



DETAIL "A"



SECTION "A-A"



DETAIL "B"

NOTES:
1. HOT-DIPPED GALVANIZED PER ASTM A123.

VZW SMART-PLK1 (SUPPORT RAIL KIT)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	PST2875-12.5	2.5" PST (2.875" O.D. X 0.203" THK.) X 12'-6" A53 GR-B	PLK1-F1	292
2	3	L33375-3	L 3" X 3" X 3/8" X 3'-0" A36	PLK1-F1	66
3	3	CBP-L	CORNER BENT PLATE BRACKET	PLK1-F2	28
4	3	CBP-R	CORNER BENT PLATE BRACKET	PLK1-F2	28
5	60	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	82
6	24	---	BOLT 5/8" X 2" A325	---	9
7	12	PL375-857	PL 3/8" X 8 1/2" X 7'-0" A36	PLK1-F3	77
8	144	FW-625	5/8" HDG USS FLAT WASHER	---	12
9	144	LW-625	5/8" HDG LOCK WASHER	---	3
10	144	NUT-625	5/8" HDG HEX NUT	---	17
				GALVANIZED WT	504

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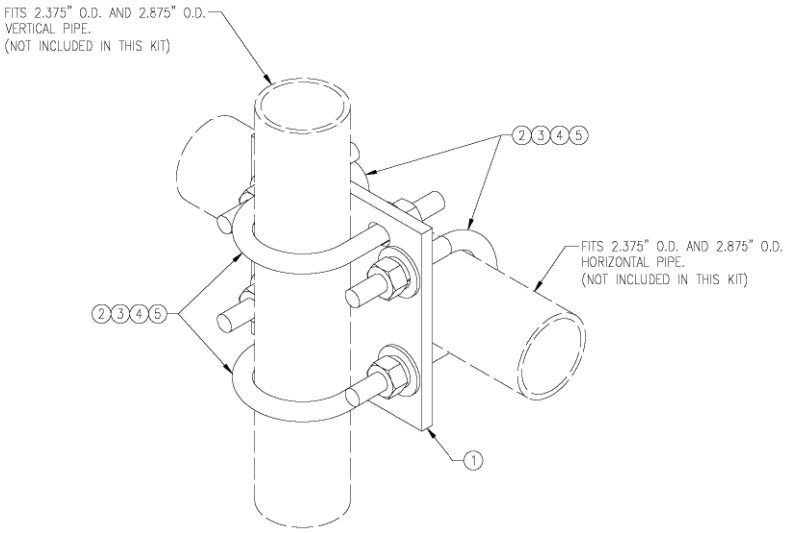
DRAWN BY: H.R | CHECKED BY: HMA

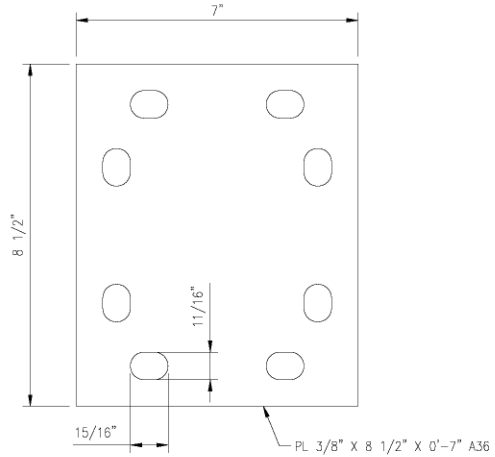
REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	H.R	05/08/20

SHEET TITLE:
VZWSMART-PLK1
SUPPORT RAIL KIT

SHEET NUMBER: VZWSMART-PLK1

REV #: 0





PL375-857

VZWSMART-MSK1 (CROSSOVER PLATE)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PL375-857	PL 3/8" X 8 1/2" X 0'-7" A36	MSK1-F1	6
2	4	MSO2-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	5
3	8	FW-625	5/8" HDG USS FLAT WASHER	---	1
4	8	LW-625	5/8" HDG LOCK WASHER	---	0
5	8	NUT-625	5/8" HDG HEX NUT	---	1
				GALVANIZED WT	14

NOTES:
1. HOT-DIPPED GALVANIZED PER ASTM A123.

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DRAWN BY: H.R	CHECKED BY: HMA

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	H.R	05/08/20

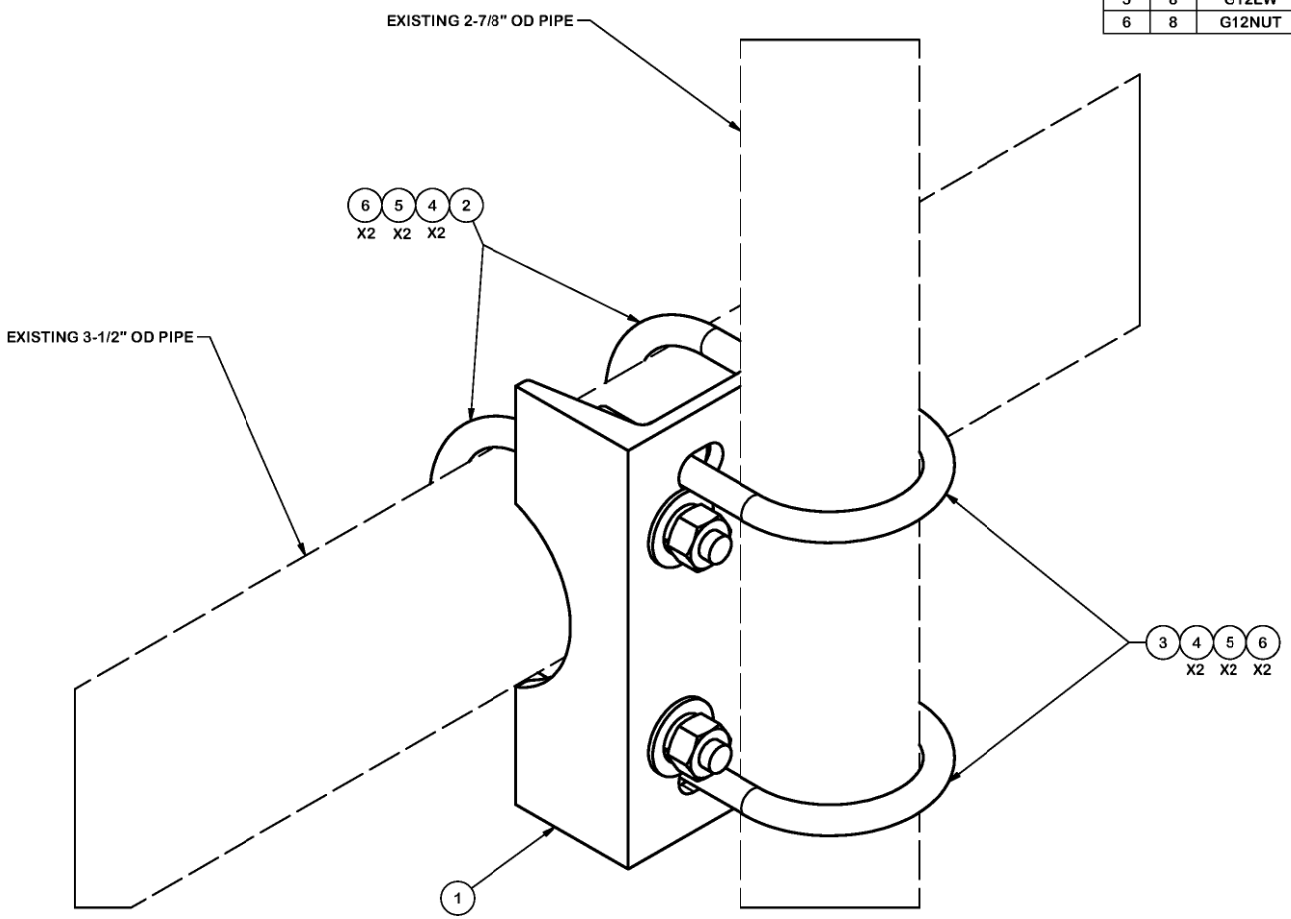
SHEET TITLE:

VZWSMART-MSK1
CROSSOVER PLATE

SHEET NUMBER: VZWSMART-MSK1

REV #: 0

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-SP219	SMALL SUPPORT CROSS PLATE	8 1/4 in	8.61	8.61
2	2	X-UB1306	1/2" X 3-5/8" X 6" X 3" U-BOLT (HDG.)		0.66	1.31
3	2	X-UB1300	1/2" X 3" X 5" X 2" U-BOLT (HDG.)		0.66	1.31
4	8	G12FW	1/2" HDG USS FLATWASHER		0.03	0.27
5	8	G12LW	1/2" HDG LOCKWASHER		0.01	0.11
6	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.57
					TOTAL WT. #	12.61



TOLERANCE NOTES

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

REVISION HISTORY				
REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
A	REDRAWN IN INV, UPDATED VIEWS & TABLE		KC8	8-21-2012

DESCRIPTION
2-7/8" TO 3-1/2"
PIPE MOUNT ASSEMBLY

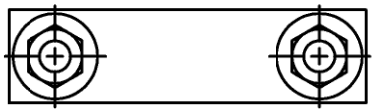
SITE PRO 1 — A valmont COMPANY

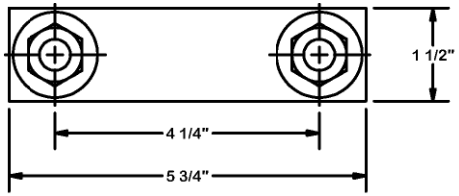
Engineering Support Team:
1-888-753-7446

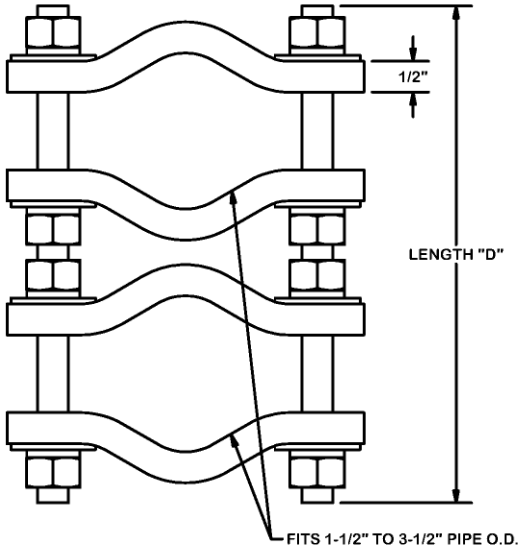
Locations:
New York, NY
Atlanta, GA
Los Angeles, CA
Plymouth, IN
Salem, OR
Dallas, TX

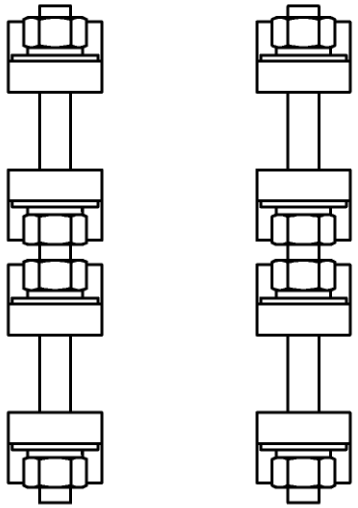
CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.	PAGE
4518	BMC 6/3/2009		SP219-H	1 OF 1

CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
81	01	CUSTOMER	CEK 2/18/2013	SP219-H



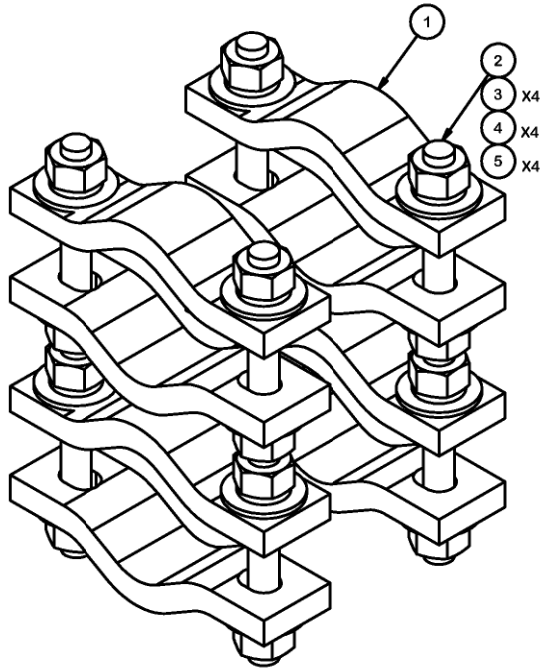






PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	8	SCP	CLAMP HALF, 1/2" THICK, 5-7/8"		1.29	10.34
2	B	C	1/2" THREADED ROD	D	E	F
3	16	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	1.15
4	16	G12LW	1/2" HDG LOCKWASHER		0.01	0.22
5	16	G12FW	1/2" HDG USS FLATWASHER		0.03	0.55

VARIABLE PARTS TABLE						
ASSEMBLY "A"	QTY "B"	PART "C"	LENGTH "D"	UNIT WT. "E"	NET WT. "F"	TOTAL WEIGHT
SCP08K	4	G12R-8	8"	.45	1.78	13.23
SCP10K	4	G12R-10	10"	.56	2.23	13.68



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BENDS ARE ± 1/2 DEGREE
ALL OTHER MACHINING *(± 0.030")*
ALL OTHER ASSEMBLY *(± 0.060")*

DESCRIPTION
PIPE TO PIPE CLAMP SET
1-1/2" TO 3-1/2" PIPE
1/2" THICK CLAMP

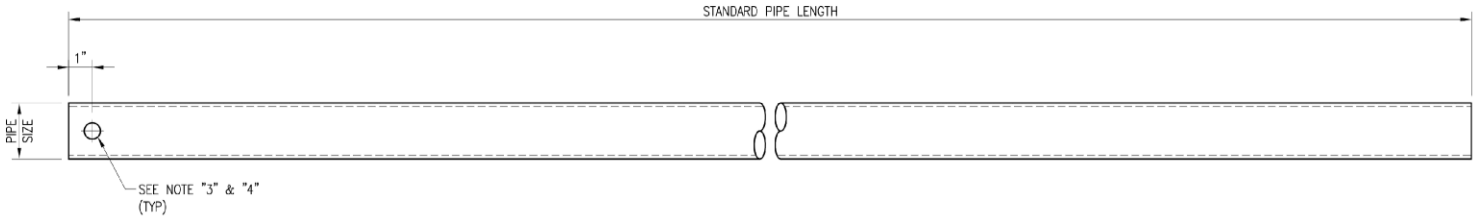
SITE PRO 1
A valmont COMPANY

Engineering Support Team: 1-888-753-7446

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

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.
	KC8 8/21/2012		SEE ASSEMBLY "A"

CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
81	01	CUSTOMER	CEK 2/18/2013	SCPxxK



VZWSMART Standard Pipe		
VZWSMART Number	Size	Length
P40-238X048	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	48"
P40-238X072	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	72"
P40-238X096	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	96"
P40-238X120	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	120"
P40-238X126	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	126"
P40-238X150	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	150"
P40-238X174	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	174"
P40-278X048	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	48"
P40-278X072	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	72"
P40-278X096	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	96"
P40-278X120	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	120"
P40-278X126	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	126"
P40-278X150	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	150"
P40-278X174	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	174"
P40-312X048	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	48"
P40-312X072	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	72"
P40-312X126	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	126"
P40-312X150	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	150"
P40-312X174	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	174"

NOTE:
APPROVED SMART KIT VENDORS ARE ALLOWED TO SUBSTITUTE AT THEIR DISCRETION PIPES LISTED ON THIS PAGE FOR CUSTOM LENGTH COMPONENTS OF MATCHING SIZE. SUBSTITUTIONS SHALL MEET THE ORIGINAL STRUCTURAL INTENT.

NOTES:
1. ALL PIPE GRADE A53-B OR BETTER.
2. HOT-DIPPED GALVANIZED PER ASTM A123.
3. ALL HOLES ARE 11/16" DIA. U.N.O
4. HOLES MAY OR MAY NOT BE PRESENT, DEPEND UPON MANUFACTURE DISCRETION.
5. ALL FIELD CUT AND DRILLED SURFACES SHALL BE REPAIRED WITH A MINIMUM OF TWO COATS OF ZINGA OR ZINC COTE PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.

VzW SMART Tool© Vendor

verizon

DRAWN BY: BT | CHECKED BY: HMA/KW

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	BT	08/04/21

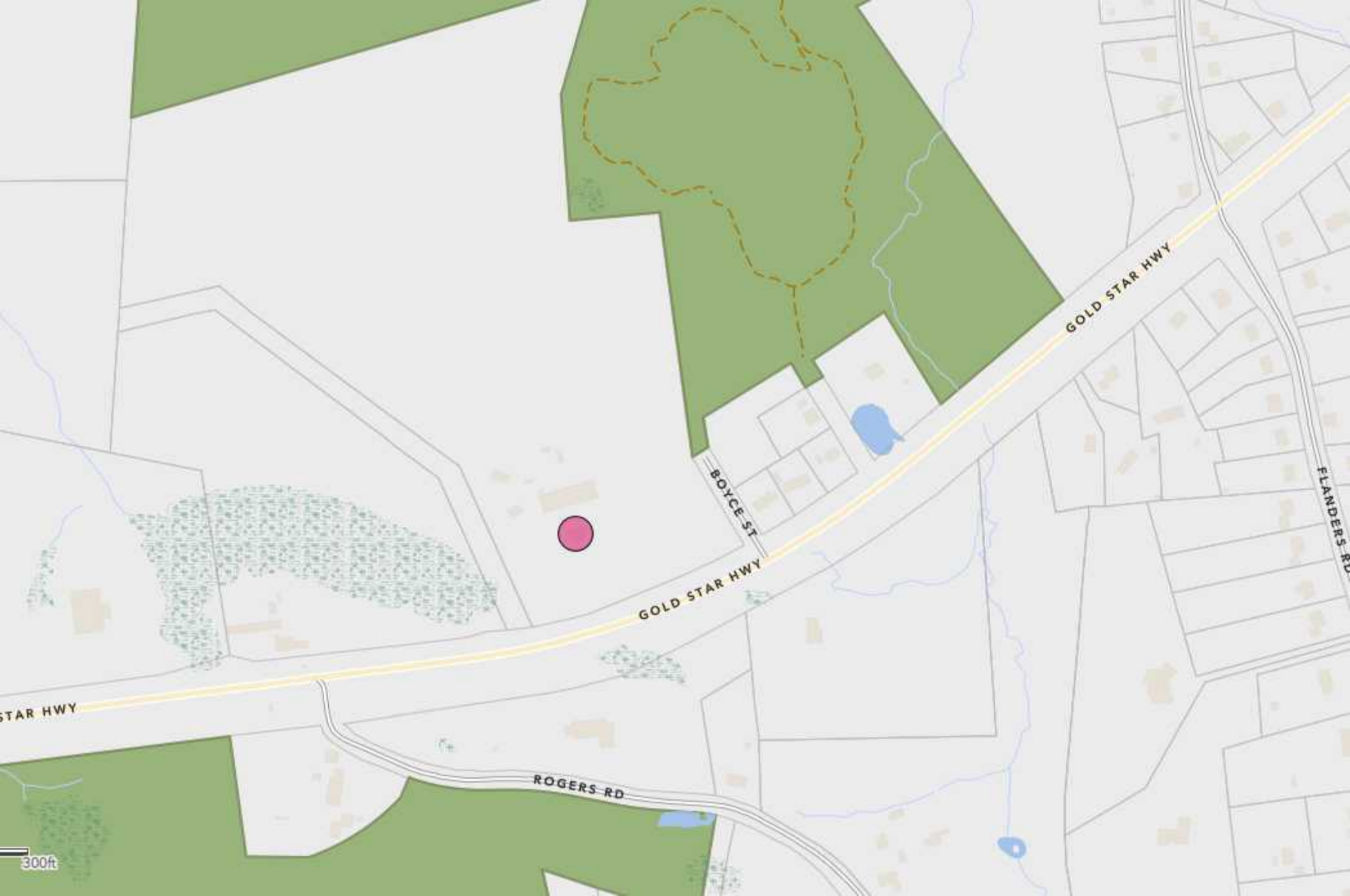
SHEET TITLE:

VZWSMART STANDARD PIPE

SHEET NUMBER: VZWSMART-PIPE

REV #: 0

ATTACHMENT 5


GOLD STAR HWY
BOYCE ST
GOLD STAR HWY
STAR HWY
ROGERS RD
FLANDERS RD
300ft

Farm Property Card

Print Date: 3/29/2022

Card 1 Of 1

Account	Location	Grand List Code	Zoning	Acres
270013126797	1662 GOLD STAR HWY	FARM	RU-40	32.248

District	Neighborhood	Deed Book/Page	Use Code
CENTER GROTON	1010	1100/751	PA FOREST

Current Owner

CROUCH CHESTER G JR
603 PRINCETON ST
BRANDON FL 33511

Residential Building Information

Style:	RAISED RANCH
Exterior:	FRAME
Attic:	NONE
Stories:	1
Basement:	FULL
Year Built:	1957
Tot Living Area:	1614 SqFt.
Fuel:	OIL
Heating:	BASIC
System:	HOT WATER
Bedrooms:	4
Full Baths:	2
Half Baths:	

Valuation

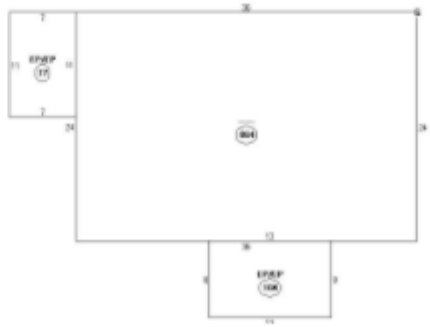
Land:	$138,700
Building:	$134,900
Total:	$273,600
Assessed Value:	$191,530

Recent Sales

Book/Page	Date	Price
1100/751	9/26/2012	$0
1013/844	7/10/2008	$0

Property Picture

Building Sketch



Sketch Legend

ATTACHMENT 6

GROTON 6

UNITED STATES POSTAL SERVICE®

Certificate of Mailing — Firm

Name and Address of Sender	TOTAL NO. of Pieces Listed by Sender	TOTAL NO. of Pieces Received at Post Office™	Affix Stamp Here ***Postmark with Date of Receipt.***
Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	3		neopost 05/24/2022 US POSTAGE $002.99 ZIP 06103 041L12203937
	Postmaster, per *(name of receiving employee)*		

OLD STATE HOUSE STATION 06108
MAY 24 2022

USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Juan Melendez, Jr., Mayor Town of Groton 45 Fort Hill Road Groton, CT 06340				
2.	Jonathan Reiner, Director of Planning Town of Groton 45 Fort Hill Road Groton, CT 06340				
3.	Chester Crouch, Jr. 603 Princeton Street Brandon, FL 33511				
4.					
5.					
6.					