Robinson+Cole

KENNETH C. BALDWIN

280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

Also admitted in Massachusetts
and New York

February 11, 2022

Via Electronic Mail

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**
17 Cottage Road, Madison, 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 September of 2007 (Docket No. 333). Cellco's shared use of the tower was approved by the Council in February of 2014 (TS-VER-076-140121). A copy of the Council's Docket No. 333 Decision and Order and TS-VER-076-140121approval are included in Attachment 1.

Cellco now intends to modify its facility by replacing nine (9) existing antennas with three (3) new Samsung MT6407-77A antennas and six (6) new MX06FRO660-03 antennas on its existing antenna platform. Cellco also intends to replace nine (9) remote radio heads ("RRHs') with six (6) new RRHs behind its antennas. A set of project plans showing Cellco's proposed facility modifications and the specifications for Cellco's new antennas and RRHs 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 Madison'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. Cellco's new antennas will be installed on its 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 and mounts 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:
Peggy Lyons, Madison First Selectwoman
Eric Mannix, Town Planner
Piers Stonehart, Property Owner
Alex Tyurin, Verizon Wireless

ATTACHMENT 1

DOCKET NO. 333 – National Grid Wireless, Inc. (now Lightower) application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications facility located at 17 Cottage Road, Madison, Connecticut.	} } }	Connecticut Siting Council September 25, 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 Lightower, hereinafter referred to as the Certificate Holder, for a telecommunications facility at 17 Cottage Road, Madison, 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 T-Mobile and other entities, both public and private, but such tower shall not exceed a height of 130 feet above ground level. The height at the top of the antennas shall not exceed 130 feet above ground level. The monopole shall be designed with a yield point to minimize the tower setback radius.

2. The tower and foundation shall be designed to accommodate a future 20-foot extension for a total tower height of 150 feet above ground level.

3. 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 Madison 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, grading, water drainage, and erosion and sedimentation control consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.

4. 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.

5. 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.

6. 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.

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

8. 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.

9. Any request for extension of the time period referred to in Condition 7 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 Madison. Any proposed modifications to this Decision and Order shall likewise be so served.

10. If the facility ceases to provide wireless services for a period of six consecutive months, 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.

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

12. 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 Source and The Shoreline 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	**Its Representative**
Lightower (formerly National Grid Wireless, Inc.)	Lucia Chiocchio, Esq. Cuddy & Feder, LLP 445 Hamilton Avenue, 14th Floor White Plains, NY 10601
Intervenor	**Its Representative**
Omnipoint Communications, Inc., a subsidiary of T-Mobile USA, Inc.	Julie D. Kohler, Esq. Carrie L. Larson, Esq. Cohen and Wolf, P.C. 1115 Broad Street Bridgeport, CT 06604

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL
Ten Franklin Square, New Britain, CT 06051
Phone: (860) 827-2935 Fax: (860) 827-2950
E-Mail: siting.council@ct.gov
www.ct.gov/csc

February 7, 2014

Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103

RE: **TS-VER-076-140121** - Cellco Partnership d/b/a Verizon Wireless request for an order to approve tower sharing at an existing telecommunications facility located at 17 Cottage Street, Madison, Connecticut.

Dear Attorney Baldwin:

At a public meeting held February 6, 2014, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures with the following conditions:

- The coax shall be installed in accordance with the Structural Analysis Report prepared by FDH Engineering, Inc. dated October 31, 2013 and stamped by J. Darrin Holt, PhD; and
- Within 45 days following completion of the antenna installation, Cellco shall provide documentation certified by a professional engineer that its installation complied with the requirements of the structural analysis;
- Any deviation from the proposed installation as specified in the original tower share request and supporting materials with the Council shall render this decision invalid;
- Any material changes to the proposed installation as specified in the original tower share request and supporting materials filed with the Council shall require an explicit request for modification to the Council pursuant to Connecticut General Statutes § 16-50aa, including all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65;
- Not less than 45 days after completion of the proposed installation, the Council shall be notified in writing that the installation has been completed;
- The validity of this action shall expire one year from the date of this letter; and
- The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration.

This decision is under the exclusive jurisdiction of the Council. This facility has been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction. Please be advised that the validity of this action shall expire one year from the date of this letter.

The proposed shared use is to be implemented as specified in your letter dated January 21, 2014, including the placement of all necessary equipment and shelters within the tower compound.

Thank you for your attention and cooperation.

Very truly yours,

Robert Stein

Robert Stein
Chairman

RS/MP/jb

c: The Honorable Fillmore McPherson, First Selectman, Town of Madison
Christine Poutot, Chm., Planning & Zoning Administrator, Town of Madison
Sean Gormley, SBA

ATTACHMENT 2

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE PROJECT OWNERS REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

SHEET INDEX

SHEET NUMBER	SHEET DESCRIPTION
T-1	TITLE SHEET
A-1	COMPOUND PLAN & STRUCTURE ELEVATION
A-2	ANTENNA PLAN, DETAILS & NOTES
A-3	ANTENNA SECTOR CONFIGURATIONS, DETAILS & NOTES
A-4	RET SYSTEM WIRING SCHEMATIC

VICINITY MAP

SBA APPROVED

By Stephen Roth at 3:45:23 AM, 12/27/2021

APPLICANT:
CELLCO PARTNERSHIP d/b/a
VERIZON WIRELESS

SCOPE OF WORK:
PROPOSED EQUIPMENT & ANTENNA MODIFICATIONS TO AN EXISTING VERIZON WIRELESS INSTALLATION AT A 130'-0"± MONOPOLE

Digitally signed by Jiazhu Hu, Ph.D., P.E.
DN: cn=Jiazhu Hu, Ph.D., P.E., o=Nexius, ou=Engineering, email=Jiazhu.Hu@Nexius.com, c=US
Date: 2021.12.01 09:36:47 -05'00'

SITE NAME
MADISON 4 CT

LOCATION CODE
2056417

SITE OWNER
SBA

SITE NUMBER
CT13615

ADDRESS
13 COTTAGE ROAD
MADISON, CT 06443

COORDINATES
41° 16' 33.30" N
72° 33' 41.19" W

NOTES

GENERAL NOTES:

1. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
2. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
3. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
4. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
5. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
6. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
7. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
8. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
9. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
10. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
11. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.
12. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.
13. ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (Fy = 36 ksi) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 GRADE B (Fy = 35 ksi). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCHUP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.
14. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
15. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
16. SINCE THE CELL SITE IS 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 ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
17. APPLICABLE BUILDING CODES:
    SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
    BUILDING CODE: 2018 CONNECTICUT STATE BUILDING CODE (IBC 2015)
    ELECTRICAL CODE: REFER TO ELECTRICAL DRAWINGS
    LIGHTENING CODE: REFER TO ELECTRICAL DRAWINGS

    SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

    ACI 318-14: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.

    AISC 360-10: SPECIFICATIONS STEEL FOR STRUCTURAL STEEL BUILDINGS.

    ANSI/TIA-222-G WITH ADDENDUMS, STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS.

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

ELECTRICAL & GROUNDING NOTES

1. ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
2. ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
3. THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.
4. GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.
5. ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
6. GROUNDING SHALL COMPLY WITH NEC ART. 250.
7. GROUND COAXIAL CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURERS COAX CABLE GROUNDING KITS SUPPLIED BY PROJECT OWNER.
8. USE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.
9. ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
10. ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY. BOND ANY METAL OBJECTS WITHIN 7 FEET OF PROPOSED EQUIPMENT OR CABINET TO MASTER GROUND BAR.
11. CONNECTIONS TO MGB SHALL BE ARRANGED IN THREE MAIN GROUPS: SURGE PRODUCERS (COAXIAL CABLE GROUND KITS, TELCO AND POWER PANEL GROUND); (GROUNDING ELECTRODE RING OR BUILDING STEEL); NON-SURGING OBJECTS (EGB GROUND IN BTS UNIT).
12. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS
13. APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTIONS.
14. BOND ANTENNA MOUNTING BRACKETS, COAXIAL CABLE GROUND KITS, AND ALNA TO EGB PLACED NEAR THE ANTENNA LOCATION.
15. BOND ANTENNA EGB'S AND MGB TO WATER MAIN.
16. TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION.
17. BOND ANY METAL OBJECTS WITHIN 7 FEET OF PROPOSED EQUIPMENT OR CABINET TO MASTER GROUND BAR.

PREPARED BY:
nexius
TRANFORM YOUR BUSINESS...THROUGH WIRELESS
A&E OFFICE:
300 APOLLO DRIVE, SUITE 7
CHELMSFORD, MA 01824
1 (978) 923-7965

APPLICANT:
CELLCO PARTNERSHIP d/b/a
verizon
20 ALEXANDER DRIVE, 2ND FLOOR
WALLINGFORD, CT 06492

PROFESSIONAL STAMP:

SUBMITTALS

REV	DATE	DESCRIPTION	BY
0	07/29/21	PER CONSTRUCTION	MLB
1	12/01/21	RRH UPDATE	MLB

SITE INFORMATION:
SITE NAME:
MADISON 4 CT
LOCATION CODE:
2056417
SITE ADDRESS:
13 COTTAGE ROAD
MADISON, CT 06443

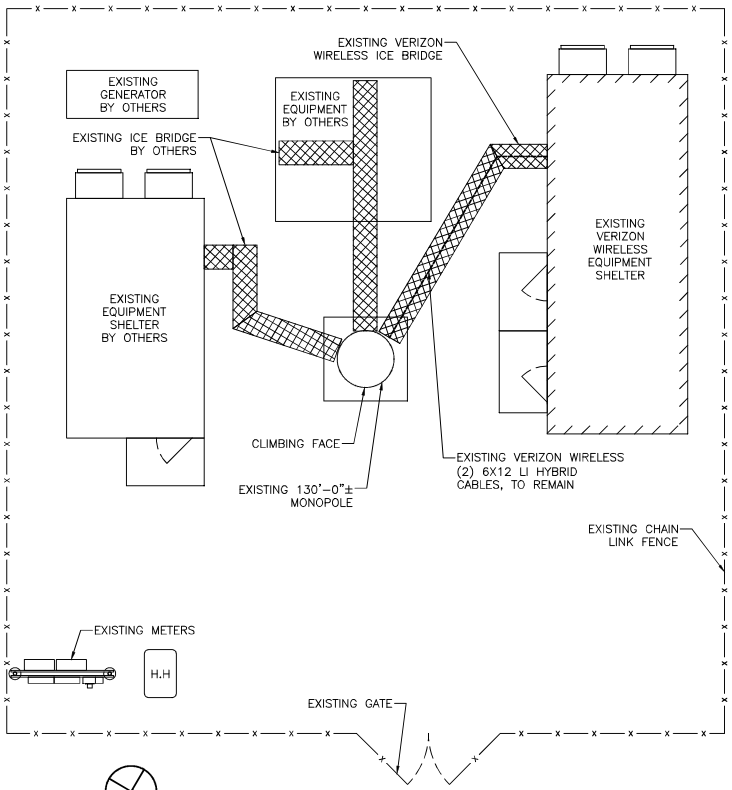
DRAWN BY:	DATE:
MLB	12/01/21
CHECKED BY:	DATE:
KB	12/01/21

NEXIUS PROJECT NO.:
VZ11509

SHEET TITLE:
TITLE SHEET

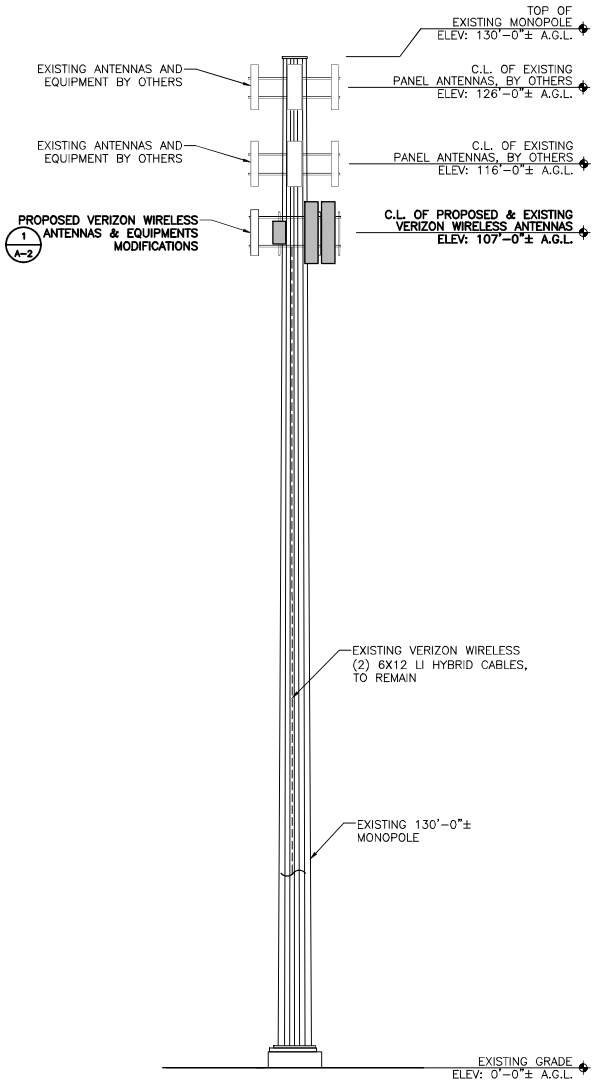
SHEET NUMBER:
T-1

NOTE:
PROJECT OWNER IS RESPONSIBLE FOR PROVIDING A MOUNT AND TOWER STRUCTURAL ANALYSIS TO DETERMINE CAPACITY AND SUITABILITY OF THE MOUNT AND TOWER STRUCTURE TO ADEQUATELY CARRY ALL LOADS IMPOSED BY BOTH EXISTING AND PROPOSED EQUIPMENT AS SHOWN HEREIN. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INCORPORATING ANY REQUIRED MODIFICATIONS INTO THEIR SCOPE OF WORK. CONTRACTOR TO CHECK WITH PROJECT OWNER AND VERIFY MOUNT INSTALLATION DETAILS PER MOUNT ANALYSIS.



1 COMPOUND PLAN
SCALE: 3/16" = 1'-0"

GRAPHIC SCALE: 3/16"=1'-0"



2 STRUCTURE ELEVATION
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1/8"=1'-0"

PREPARED BY:

nexius
TRANFORM YOUR BUSINESS...THROUGH WIRELESS

A&E OFFICE:
300 APOLLO DRIVE, SUITE 7
CHELMSFORD, MA 01824
1 (978) 923-7965

APPLICANT:

CELLCO PARTNERSHIP d/b/a

verizon

20 ALEXANDER DRIVE, 2ND FLOOR
WALLINGFORD, CT 06492

PROFESSIONAL STAMP:

STATE OF CONNECTICUT
JIAZHU HU
31530
LICENSED
PROFESSIONAL ENGINEER

SUBMITTALS

REV	DATE	DESCRIPTION	BY
0	07/29/21	PER CONSTRUCTION	MLB
1	12/01/21	RRH UPDATE	MLB

SITE INFORMATION:

SITE NAME:
MADISON 4 CT

LOCATION CODE:
2056417

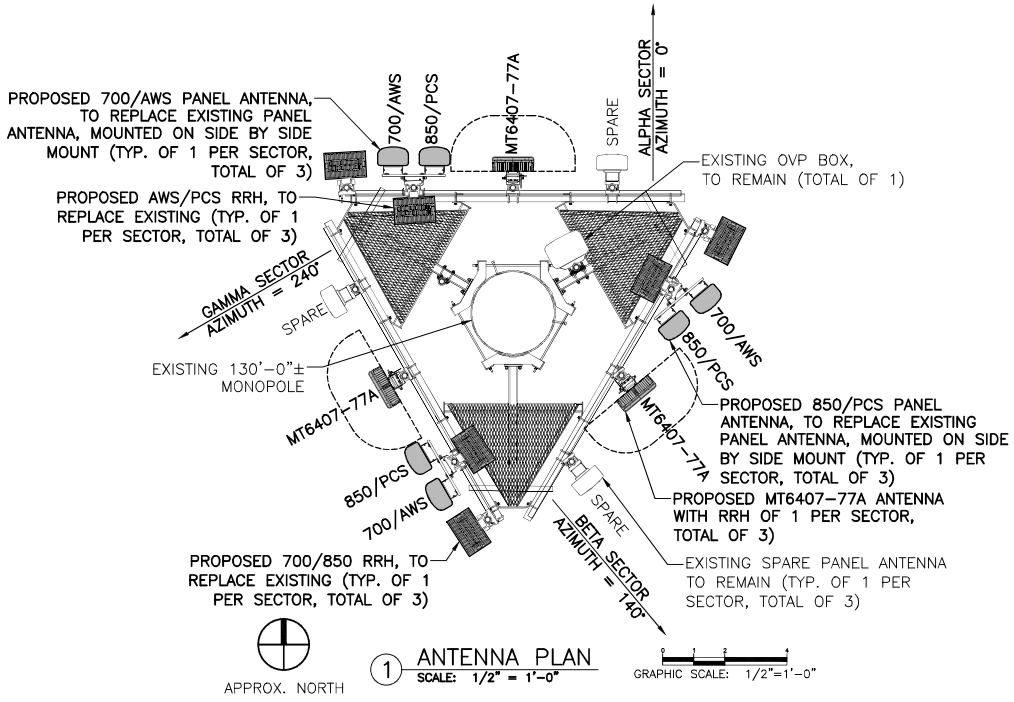
SITE ADDRESS:
13 COTTAGE ROAD
MADISON, CT 06443

DRAWN BY:	DATE:
MLB	12/01/21
CHECKED BY:	DATE:
KB	12/01/21

NEXIUS PROJECT NO.:
VZ11509

SHEET TITLE:
COMPOUND PLAN & STRUCTURE ELEVATION

SHEET NUMBER:
A-1



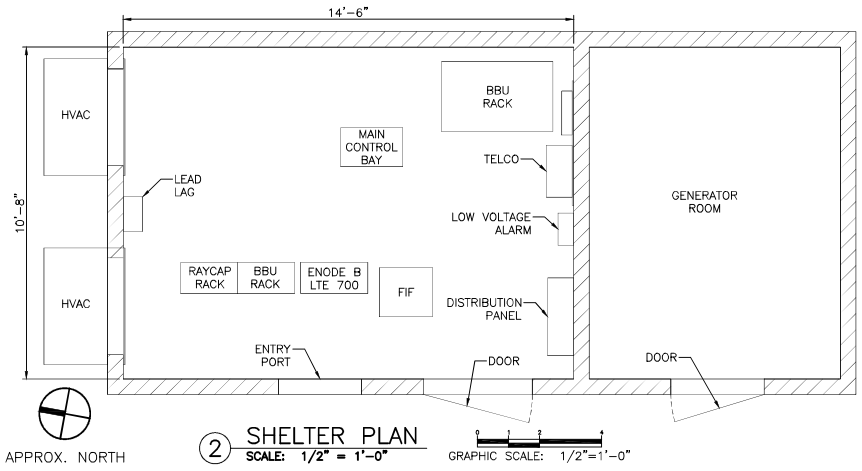
SCOPE OF WORK:

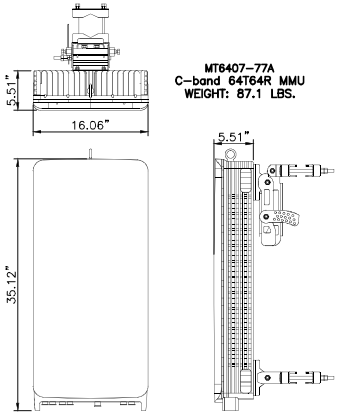
ALPHA SECTOR:
- REMOVE (3) EXISTING PANEL ANTENNAS.
- INSTALL (1) NEW JMA 91900314-02 SIDE-BY-SIDE MOUNT.
- INSTALL (2) NEW JMA MX06FRO660-03 ON NEW SIDE-BY-SIDE MOUNT.
- INSTALL (1) NEW MT6407-77A ANTENNA W/ RRH AS SHOWN ON PLANS.
- REMOVE (3) EXISTING RRHS.
- INSTALL (1) NEW SAMSUNG RF4440D-13A 700/850 RRH AT ANTENNAS, AS SHOWN ON PLANS.
- INSTALL (1) NEW SAMSUNG RF4439D-25A AWS/PCS RRH AT ANTENNAS, AS SHOWN ON PLANS.
- INSTALL (1) NEW SAMSUNG JUMPER FROM OVP BOX TO 700/850 RRH.
- INSTALL (1) NEW POWER CABLE FROM OVP BOX TO 700/850 RRH.
- INSTALL (1) NEW SAMSUNG JUMPER FROM OVP BOX TO AWS/PCS RRH.
- INSTALL (1) NEW POWER CABLE FROM OVP BOX TO AWS/PCS RRH.
- INSTALL (1) NEW 1x2 HYBRID CABLE FROM OVP BOX TO MT6407-77A ANTENNA W/ RRH.
- INSTALL 1/2" ANTENNA JUMPERS, AS REQUIRED.

BETA SECTOR:
- REMOVE (3) EXISTING PANEL ANTENNAS.
- INSTALL (1) NEW JMA 91900314-02 SIDE-BY-SIDE MOUNT.
- INSTALL (2) NEW JMA MX06FRO660-03 ON NEW SIDE-BY-SIDE MOUNT.
- INSTALL (1) NEW MT6407-77A ANTENNA W/ RRH AS SHOWN ON PLANS.
- REMOVE (3) EXISTING RRHS.
- INSTALL (1) NEW SAMSUNG RF4440D-13A 700/850 RRH AT ANTENNAS, AS SHOWN ON PLANS.
- INSTALL (1) NEW SAMSUNG RF4439D-25A AWS/PCS RRH AT ANTENNAS, AS SHOWN ON PLANS.
- INSTALL (1) NEW SAMSUNG JUMPER FROM OVP BOX TO 700/850 RRH.
- INSTALL (1) NEW POWER CABLE FROM OVP BOX TO 700/850 RRH.
- INSTALL (1) NEW SAMSUNG JUMPER FROM OVP BOX TO AWS/PCS RRH.
- INSTALL (1) NEW POWER CABLE FROM OVP BOX TO AWS/PCS RRH.
- INSTALL (1) NEW 1x2 HYBRID CABLE FROM OVP BOX TO MT6407-77A ANTENNA W/ RRH.
- INSTALL 1/2" ANTENNA JUMPERS, AS REQUIRED.

GAMMA SECTOR:
- REMOVE (3) EXISTING PANEL ANTENNAS.
- INSTALL (1) NEW JMA 91900314-02 SIDE-BY-SIDE MOUNT.
- INSTALL (2) NEW JMA MX06FRO660-03 ON NEW SIDE-BY-SIDE MOUNT.
- INSTALL (1) NEW MT6407-77A ANTENNA W/ RRH AS SHOWN ON PLANS.
- REMOVE (3) EXISTING RRHS.
- INSTALL (1) NEW SAMSUNG RF4440D-13A 700/850 RRH AT ANTENNAS, AS SHOWN ON PLANS.
- INSTALL (1) NEW SAMSUNG RF4439D-25A AWS/PCS RRH AT ANTENNAS, AS SHOWN ON PLANS.
- INSTALL (1) NEW SAMSUNG JUMPER FROM OVP BOX TO 700/850 RRH.
- INSTALL (1) NEW POWER CABLE FROM OVP BOX TO 700/850 RRH.
- INSTALL (1) NEW SAMSUNG JUMPER FROM OVP BOX TO AWS/PCS RRH.
- INSTALL (1) NEW POWER CABLE FROM OVP BOX TO AWS/PCS RRH.
- INSTALL (1) NEW 1x2 HYBRID CABLE FROM OVP BOX TO MT6407-77A ANTENNA W/ RRH.
- INSTALL 1/2" ANTENNA JUMPERS, AS REQUIRED.

DESIGN SHOWN HEREIN IS BASED OFF A RFDS PROVIDED BY VERIZON WIRELESS DATED 07/16/2021.





PREPARED BY:

nexius
TRANFORM YOUR BUSINESS...THROUGH WIRELESS

A&E OFFICE:
300 APOLLO DRIVE, SUITE 7
CHELMSFORD, MA 01824
1 (978) 923-7965

APPLICANT:

CELLCO PARTNERSHIP d/b/a

verizon

20 ALEXANDER DRIVE, 2ND FLOOR
WALLINGFORD, CT 06492

PROFESSIONAL STAMP:

STATE OF CONNECTICUT
JIAZHU HU
31530
LICENSED
PROFESSIONAL ENGINEER

SUBMITTALS

REV	DATE	DESCRIPTION	BY
0	07/29/21	PER CONSTRUCTION	MLB
1	12/01/21	RRH UPDATE	MLB

SITE INFORMATION:

SITE NAME:
MADISON 4 CT

LOCATION CODE:
2056417

SITE ADDRESS:
13 COTTAGE ROAD
MADISON, CT 06443

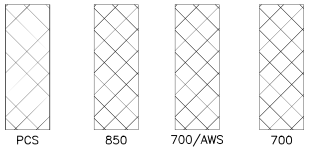
DRAWN BY:	DATE:
MLB	12/01/21
CHECKED BY:	DATE:
KB	12/01/21

NEXIUS PROJECT NO.:
VZ11509

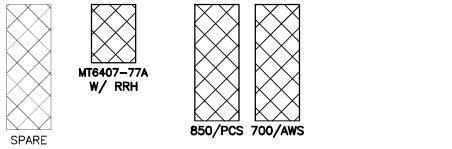
SHEET TITLE:
ANTENNA PLAN, DETAILS & NOTES

SHEET NUMBER:
A-2

NOTE: ALL ANTENNAS ARE VIEWED FROM IN FRONT

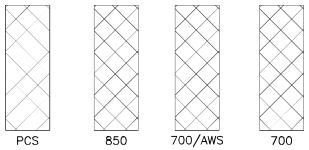


EXISTING CONFIGURATION

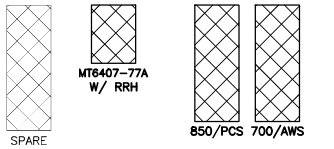


PROPOSED CONFIGURATION

ALPHA SECTOR ANTENNA CONFIGURATION

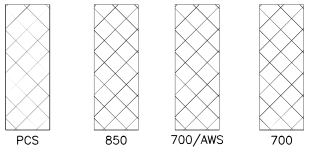


EXISTING CONFIGURATION

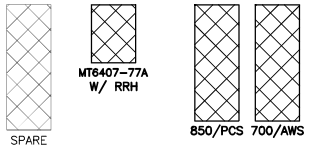


PROPOSED CONFIGURATION

BETA SECTOR ANTENNA CONFIGURATION



EXISTING CONFIGURATION



PROPOSED CONFIGURATION

GAMMA SECTOR ANTENNA CONFIGURATION

GENERAL NOTES:

1. INSTALL ALL EQUIPMENT, MOUNTING BRACKETS, AND HARDWARE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. GROUND DISTRIBUTION BOXES, MOUNTING PIPES, AND RRH'S IN ACCORDANCE WITH THE NEC ARTICLE 250 & THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
3. INSTALLED EQUIPMENT AND MOUNTING BRACKETS SHALL NOT INTERFERE WITH CLIMBING ACCESS NOR ANY INSTALLED SAFETY DEVICES.

PREPARED BY:

nexius
TRANFORM YOUR BUSINESS...THROUGH WIRELESS

A&E OFFICE:
300 APOLLO DRIVE, SUITE 7
CHELMSFORD, MA 01824
1 (978) 923-7965

APPLICANT:

CELLCO PARTNERSHIP d/b/a
verizon

20 ALEXANDER DRIVE, 2ND FLOOR
WALLINGFORD, CT 06492

PROFESSIONAL STAMP:

SUBMITTALS

REV	DATE	DESCRIPTION	BY
0	07/29/21	PER CONSTRUCTION	MLB
1	12/01/21	RRH UPDATE	MLB

SITE INFORMATION:

SITE NAME:
MADISON 4 CT

LOCATION CODE:
2056417

SITE ADDRESS:
13 COTTAGE ROAD
MADISON, CT 06443

DRAWN BY:	DATE:
MLB	12/01/21
CHECKED BY:	DATE:
KB	12/01/21

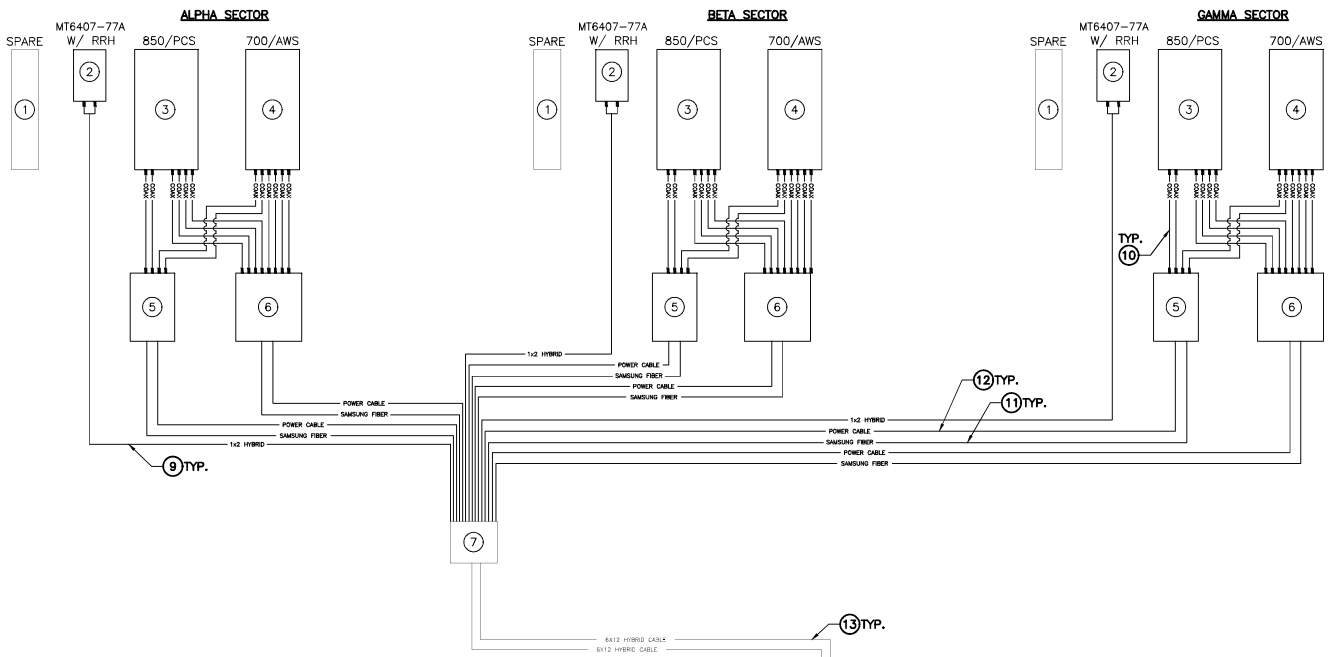
NEXIUS PROJECT NO.:
VZ11509

SHEET TITLE:
ANTENNA SECTOR CONFIGURATIONS, DETAILS & NOTES

SHEET NUMBER:

A-3

NOTE: ALL ANTENNAS ARE VIEWED FROM IN FRONT



GENERAL NOTES:

1. CONTRACTOR SHALL REFER TO THE LATEST VERIZON WIRELESS RFDS WHICH MAY INCLUDE ANTENNA SECTOR AZIMUITHS/ANTENNA CHANGES, ETC. THAT ARE REQUIRED AS PART OF THE PROJECT.
2. CONTRACTOR SHALL SECURE ALL CONTROL CABLES IN ACCORDANCE WITH INDUSTRY STANDARDS & MANUFACTURERS INSTRUCTIONS. EXTERIOR CONTROL CABLES MAY BE TAPED OR TIE-WRAPPED TO EXISTING COAXIAL CABLES EVERY 4' MAX. FOR HORIZONTAL RUNS. CONTRACTOR MAY USE HOISTING GRIPS AT TOP OF VERTICAL CABLE RUNS IN CERTAIN APPLICATIONS.
3. RET CABLES SHALL BE ROUTED & SECURED ON STRUCTURAL MEMBERS ONLY. DO NOT LOOP THE CABLES IN MID-AIR BETWEET ANTENNAS.
4. CONTRACTOR SHALL VERIFY ALL CABLE LENGTHS PRIOR TO CONSTRUCTION.

BILL OF MATERIALS

ITEM	DESCRIPTION	EXISTING/PROPOSED	QTY.	LENGTH	COMMENTS
1	SPARE ANTENNA	EXISTING	3	NA	RETAIN EXISTING SPARE ANTENNA
2	MT6407-77A ANTENNA	PROPOSED	3	NA	INSTALL NEW MT6407-77A ANTENNA W/ RRH
3	850/PCS ANTENNA	PROPOSED	3	NA	INSTALL NEW JMA MX06FRO660-03 PANEL ANTENNA
4	700/AWS ANTENNA	PROPOSED	3	NA	INSTALL NEW JMA MX06FRO660-03 PANEL ANTENNA
5	700/850 RRH	PROPOSED	3	NA	INSTALL NEW RRH: 700/850 SAMSUNG RF4440D-13A RRH AT ANTENNAS
6	AWS/PCS RRH	PROPOSED	3	NA	INSTALL NEW RHH: AWS/PCS SAMSUNG RF4439D-25A RRH AT ANTENNAS
7	UPPER 12C OVP BOX	EXISTING	1	NA	RETAIN EXISTING 12C OVP BOX AT ANTENNAS
8	LOWER OVP RACK MOUNT	EXISTING	1	NA	RETAIN EXISTING RAYCAP WITHIN SHELTER
9	1x2 HYBRID	PROPOSED	3	15'	INSTALL AT NEW MT6407-77A ANTENNA W/ RRH
10	1/2" COAX CABLES	PROPOSED	36	15' EA	ROUTED AS SHOWN ON SCHEMATIC
11	SAMSUNG FIBER	PROPOSED	6	15'	INSTALL NEW AT 700/850 & AWS/PCS RRH
12	POWER CABLE	PROPOSED	6	15'	INSTALL NEW AT 700/850 & AWS/PCS RRH
13	6X12 HYBRID CABLE	EXISTING	2	170'±	INSTALL NEW FROM SHELTER TO TOWER OVP
14	SIDE-BY-SIDE MOUNT	PROPOSED	3	NA	INSTALL NEW JMA 91900314-02 SIDE-BY-SIDE MOUNT

1. ITEMS SHOWN ARE FOR MAJOR DESIGN ELEMENTS ONLY. REFER TO VERIZON WIRELESS' B.O.M. FOR ALL MANUFACTURERS PART NUMBERS & ACCESSORY ITEMS REQUIRED FOR A COMPLETE INSTALLATION.
2. CONTRACTOR SHALL REFER TO THE LATEST VERIZON WIRELESS RFDS WHICH MAY INCLUDE ANTENNA SECTOR AZIMUTHS/ANTENNA CHANGES, ETC. THAT ARE REQUIRED AS PART OF THE PROJECT.

* SIGNIFIES LEASE ONLY.

PREPARED BY:

nexius
TRANFORM YOUR BUSINESS...THROUGH WIRELESS

A&E OFFICE:
300 APOLLO DRIVE, SUITE 7
CHELMSFORD, MA 01824
1 (978) 923-7965

APPLICANT:

CELLCO PARTNERSHIP d/b/a

verizon

20 ALEXANDER DRIVE, 2ND FLOOR
WALLINGFORD, CT 06492

PROFESSIONAL STAMP:

SUBMITTALS

REV	DATE	DESCRIPTION	BY
0	07/29/21	PER CONSTRUCTION	MLB
1	12/01/21	RRH UPDATE	MLB

SITE INFORMATION:

SITE NAME:
MADISON 4 CT

LOCATION CODE:
2056417

SITE ADDRESS:
13 COTTAGE ROAD
MADISON, CT 06443

DRAWN BY:	DATE:
MLB	12/01/21
CHECKED BY:	DATE:
KB	12/01/21

NEXIUS PROJECT NO.:
VZ11509

SHEET TITLE:
RET SYSTEM WIRING SCHEMATIC

SHEET NUMBER:
A-4

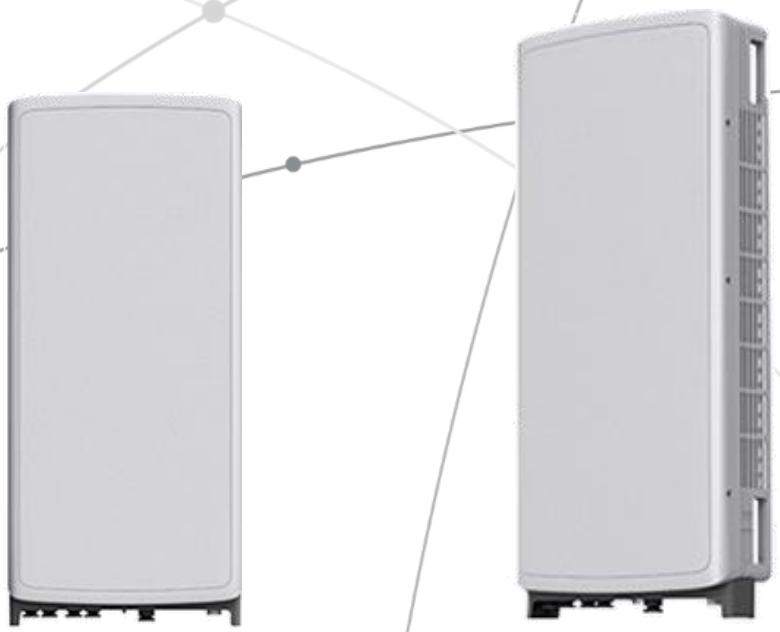
SAMSUNG

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

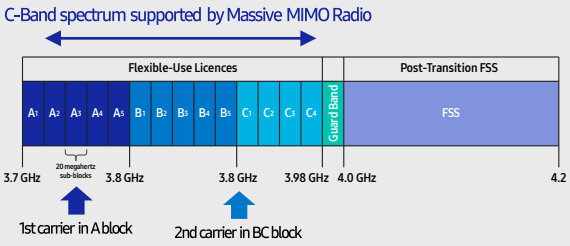


Points of Differentiation

Wide Bandwidth

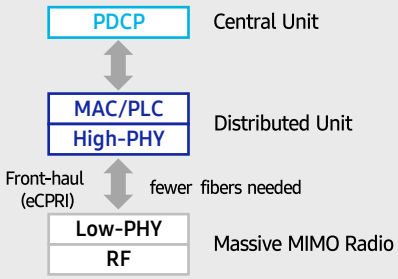
With capability to support up to 2 CC carrier configuration, Samsung C-Band massive MIMO Radio supports 200 MHz bandwidth in the C-Band spectrum.

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.

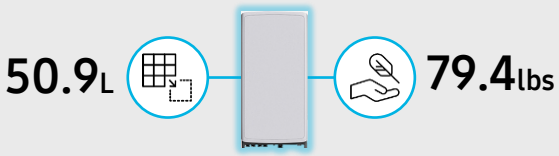
This helps operators reduce their CAPEX as they now need less products to cover the same area than before.

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

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

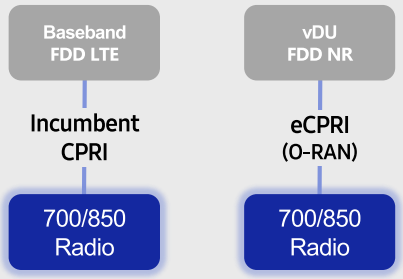
Homepage
samsungnetworks.com

Youtube
www.youtube.com/samsung5g

Points of Differentiation

Continuous Migration

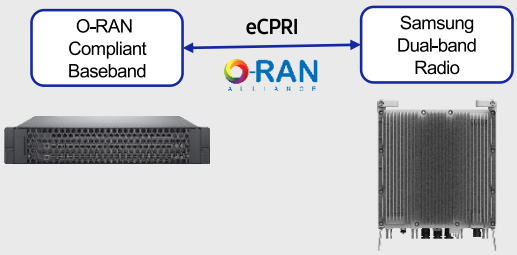
Samsung's 700/850MHz macro radio can support each incumbent CPRI interface as well as an advanced eCPRI interface. This feature provides installable options for both legacy LTE networks and added NR networks.



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.

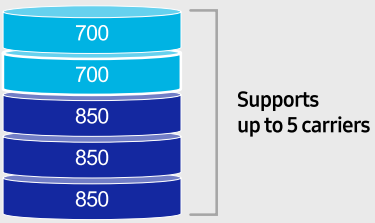
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



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.

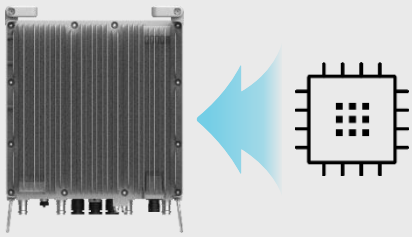
The new 700/850MHz dual-band radio can support up to 2 carriers in the B13 (700MHz) band and 3 carriers in the B5 (850MHz) band, respectively.



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

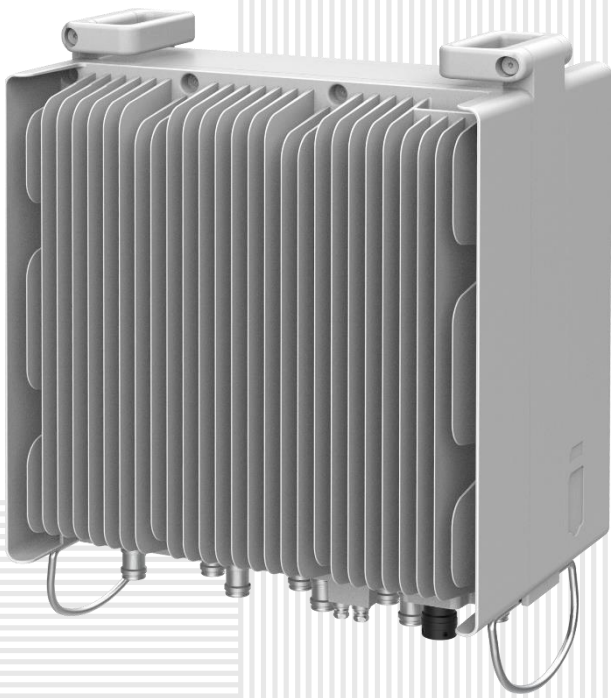
AWS/PCS MACRO RADIO

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



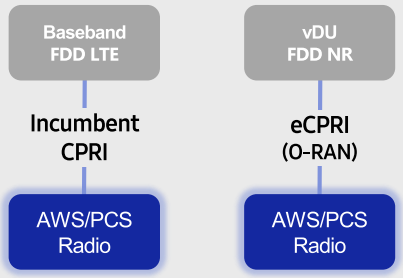
Homepage
samsungnetworks.com

Youtube
www.youtube.com/samsung5g

Points of Differentiation

Continuous Migration

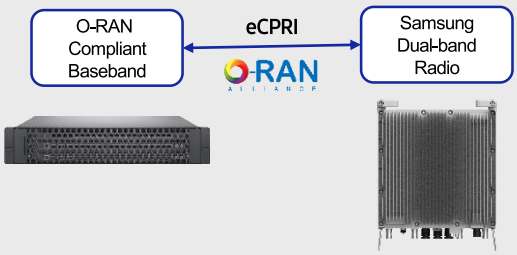
Samsung's AWS/PCS macro radio can support each incumbent CPRI interface as well as advanced eCPRI interfaces. This feature provides installable options for both legacy LTE networks and added NR networks.



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.

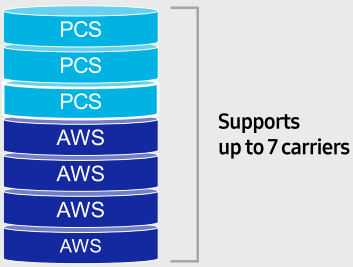
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



Optimum Spectrum Utilization

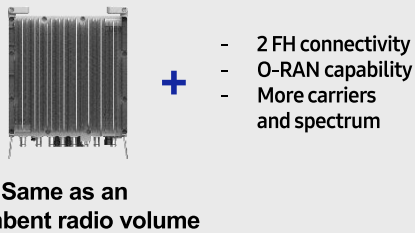
The number of required carriers varies according to site (region). Supporting many carriers is essential for using all frequencies that the operator has available.

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

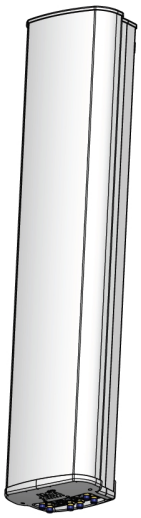
MX06FRO660-03

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

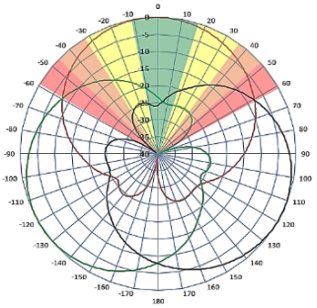
- Fast Roll Off (FRO™) azimuth beam pattern improves Intra- and Inter-cell SINR
- Compatible with dual band 700/850 MHz radios with independent low band EDT without external diplexers
- Fully integrated (iRETs) with independent RET control for low and high bands for ease of network optimization
- SON-Ready 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



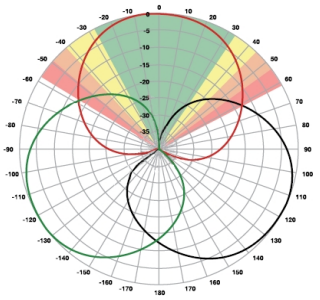
Large traditional antenna pattern overlap creates harmful interference.

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				

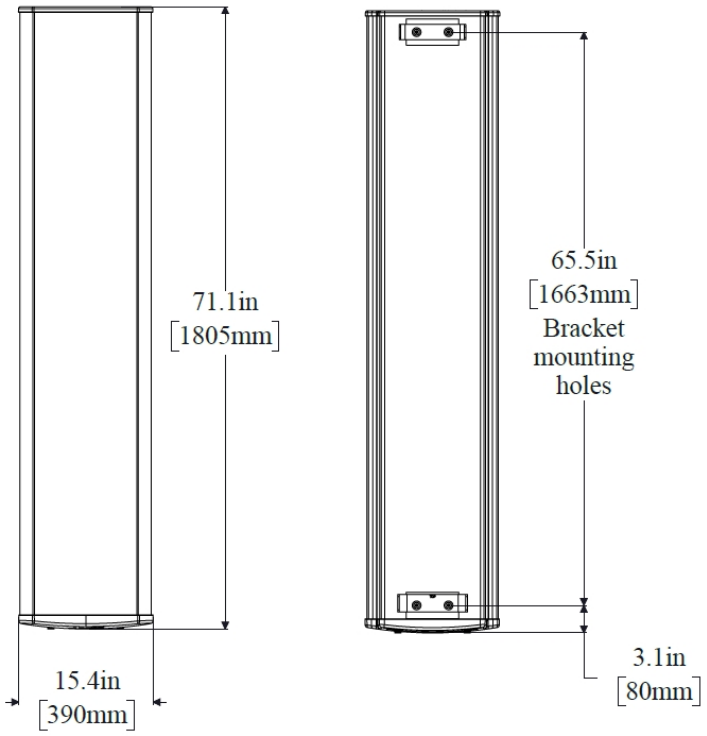
[1] Typical value over frequency and tilt

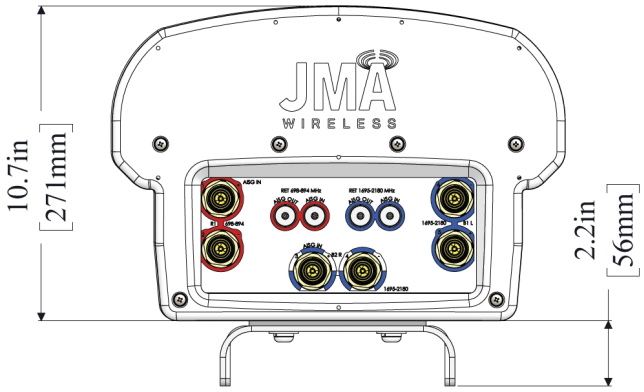
MX06FRO660-03

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

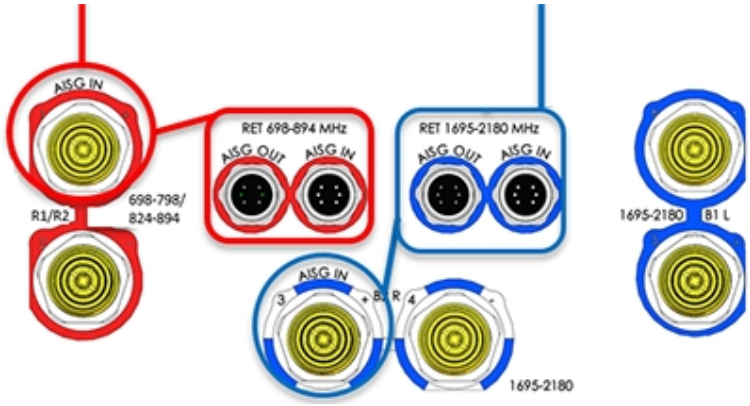
Remote electrical tilt (RET 1000) information	
RET location	Integrated into antenna
RET interface connector type	8-pin AISG connector per IEC 60130-9
RET connector torque	Min 0.5 N·m to max 1.0 N·m (hand pressure & finger tight)
RET interface connector quantity	2 pairs of AISG male/female connectors
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

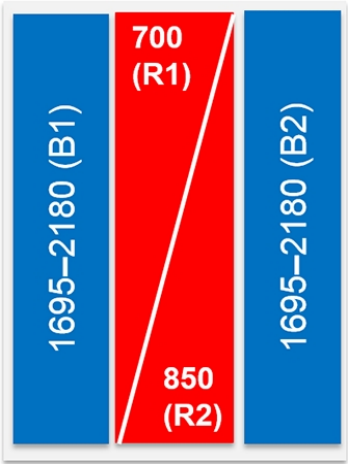


Array topology

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: Madison 4								
Tower Height: Verizon @ 107ft								
CARRIER	**# OF CHAN.**	**WATTS ERP**	**HEIGHT**	**FREQ.**	**CALC. POWER DENS**	**MAX. PERMISS.EXP.**	**FRACTION MPE**	**Total**
*T-Mobile	1	584	117	1900	0.017045546	1	0.17%	
*T-Mobile	1	1556	117	1900	0.045415872	1	0.45%	
*T-Mobile	1	1107	117	2100	0.032310649	1	0.32%	
*T-Mobile	2	2334	117	2100	0.136247617	1	1.36%	
*T-Mobile	2	789	117	600	0.046057999	0.4	1.15%	
*T-Mobile	2	433	117	700	0.025276443	0.466666667	0.54%	
*AT&T - GSM	1	695	127	850	0.017070966	0.566666667	0.30%	
*AT&T - GSM	2	1117	127	700	0.054872715	0.466666667	1.18%	
*AT&T - GSM	2	1283	127	850	0.063027479	0.566666667	1.11%	
*AT&T - UMTS	4	5484	127	2100	0.538803888	1	5.39%	
*AT&T - UMTS	4	2038	127	700	0.20023383	0.466666667	4.29%	
*AT&T - LTE	4	2213	127	2300	0.0123	1	0.12%	
*AT&T - LTE	4	3156	127	1900	0.310077511	1	3.10%	
VZW 700	**4**	**623**	**107**	**751**	**0.0078**	**0.5007**	**1.56%**	
VZW Cellular	**4**	**623**	**107**	**874**	**0.0078**	**0.5827**	**1.34%**	
VZW PCS	**4**	**1462**	**107**	**1975**	**0.0184**	**1.0000**	**1.84%**	
VZW AWS	**4**	**1640**	**107**	**2120**	**0.0206**	**1.0000**	**2.06%**	
VZW CBAND	**2**	**22131**	**107**	**3730.08**	**0.1390**	**1.0000**	**13.90%**	
								40.20%
* 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 130 ft Rohn Monopole

Customer Name: SBA Communications Corp

Customer Site Number: CT13615-A

Customer Site Name: Madison 7, CT

Carrier Name: Verizon (App#: 180421-1)

Carrier Site ID / Name: 468014 / Madison_4_CT

Site Location: 17 Cottage Road

Madison, Connecticut

New Haven County

Latitude: 41.275916

Longitude: -72.561444

Analysis Result:

Max Structural Usage: 81.8% [Pass]

Max Foundation Usage: 65.0% [Pass]

Additional Usage Caused by New Mount/Mount Modification: N/A

Report Prepared By: Kevin Azisllari

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

Structural Analysis Report

Existing 130 ft Rohn Monopole

Customer Name: SBA Communications Corp

Customer Site Number: CT13615-A

Customer Site Name: Madison 7, CT

Carrier Name: Verizon (App#: 180421-1)

Carrier Site ID / Name: 468014 / Madison_4_CT

Site Location: 17 Cottage Road

Madison, Connecticut

New Haven County

Latitude: 41.275916

Longitude: -72.561444

Analysis Result:

Max Structural Usage: 81.8% [Pass]

Max Foundation Usage: 65.0% [Pass]

Additional Usage Caused by New Mount/Mount Modification: N/A

Report Prepared By: Kevin Azisllari

Introduction

The purpose of this report is to summarize the analysis results on the 130 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 Communication Services, Drawing No. A070592 1-3 dated 10/1/2007.
Foundation Drawing	Radian Communication Services, Drawing No. A070593 1-3 dated 10/1/2007.
Geotechnical Report	JGI, Project No. J2075395 dated 9/10/2007.
Modification Drawings	N/A
Mount Analysis	Verizon, Maser Consulting Connecticut, Prj#: 10059044, dated 11/09/2021

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} = 130.0 mph (3-Sec. Gust)/ Nominal Design Wind Speed V_{asd} = 101.0 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:	C
Structure Class:	II
Topographic Category:	1
Crest Height:	0 ft
Seismic Parameters:	S_S = 0.173, S_1 = 0.06

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	127.0	3	Powerwave P90-15-XLH-RR - Panel	Platform (Valmont LWRM) w/ Hand Rail and Mods	(12) 1 5/8" (1) 1/2" (2) 1/2" Fiber (2) 3" Flex Conduit* (6) 3/4" DC Power	AT&T
2		3	Kathrein 800-10964 - Panel			
3		3	Quintel QS46512-2 - Panel			
4		6	Powerwave TT19-08BP111-001 - TMA			
5		6	Kaelus DBC0061F1V51-2 - Diplexer			
6		3	Ericsson RRUS 8843 B2 B66A - RRU			
7		3	Ericsson RRUS 32 - RRU			
8		3	Ericsson 4449 B5/B12 - RRU			
9		3	Raycap DC6-48-60-18-8F			
10	117.0	3	Ericsson Air 21 B2A/B4P - Panel	12.5' Low Profile Platform w/ Hand Rail and Mods	(9) 1 5/8" (4) 1 5/8" Fiber	T-Mobile
11		3	RFS APXVAARR24_43-U-NA20 - Panel			
12		3	Ericsson Air 21 B4A/B2P - Panel			
13		3	Ericsson KRY 112 144/1 - TMA			
14		3	Ericsson Radio 4449 B71+B12 - RRU			
15	107.0	9	Commscope SBNHH-1D65B - Panel	Low Profile Platform	(10) 1 5/8" (2) 1 5/8" Fiber	Verizon
16		3	Antel BXA-70063-6CF-2 - Panel			
17		3	Alcatel Lucent RRH2x60-700 - RRU			
18		3	Alcatel Lucent RRH2X60-PCS - RRU			
19		3	Alcatel Lucent RRH4x45AWS - RRU			
20		2	RFS DB-T1-6Z-8AB-0Z - ODU			
21	90.0	3	JMA Wireless MX08FRO665-21- Panel	(1) Commscope MC-PK8-DSH (Platform w/HRK)	(1) 1.411" Fiber	Dish Wireless
22		3	Fujitsu TA08025-B605-RRH			
23		3	Fujitsu TA08025-B604-RRH			
24		1	Raycap RDIDC-9181-PF-48- OVP			

* (2) 3" flex conduit housing (2) 3/4" and (1) 1/2" cables

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	107.0	6	JMA Wireless MX06FRO660-03 - Panel	Low Profile Platform + (3) JMA Wireless 91900314-02 (Dual Mount Bracket)	(10) 1 5/8" (2) 1 5/8" Hybrid	Verizon
2		3	Samsung MT6407-77A - Panel			
3		3	Commscope SBNHH-1D65B - Panel			
4		3	Samsung RF4439d-25A			
5		3	Samsung RF4440d-13A			
6		1	Raycap RRFDC-6627-PF-48			

The proposed transmission lines can be installed inside or outside of the pole shafts. If installed outside, the lines shall be strapped tightly to the face of the pole shafts. Stacking lines is not allowed.

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
Max. Usage:	**52.7%**	**73.3%**	**81.8%**
Pass/Fail	**Pass**	**Pass**	**Pass**

Foundations

	Moment (Kip-Ft)	Shear (Kips)	Axial (Kips)
Analysis Reactions	3334.1	35.2	75.3

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 0.6428 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.

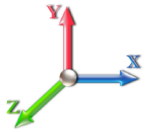
Usage Diagram - Max Ratio 52.71% at 0.0ft

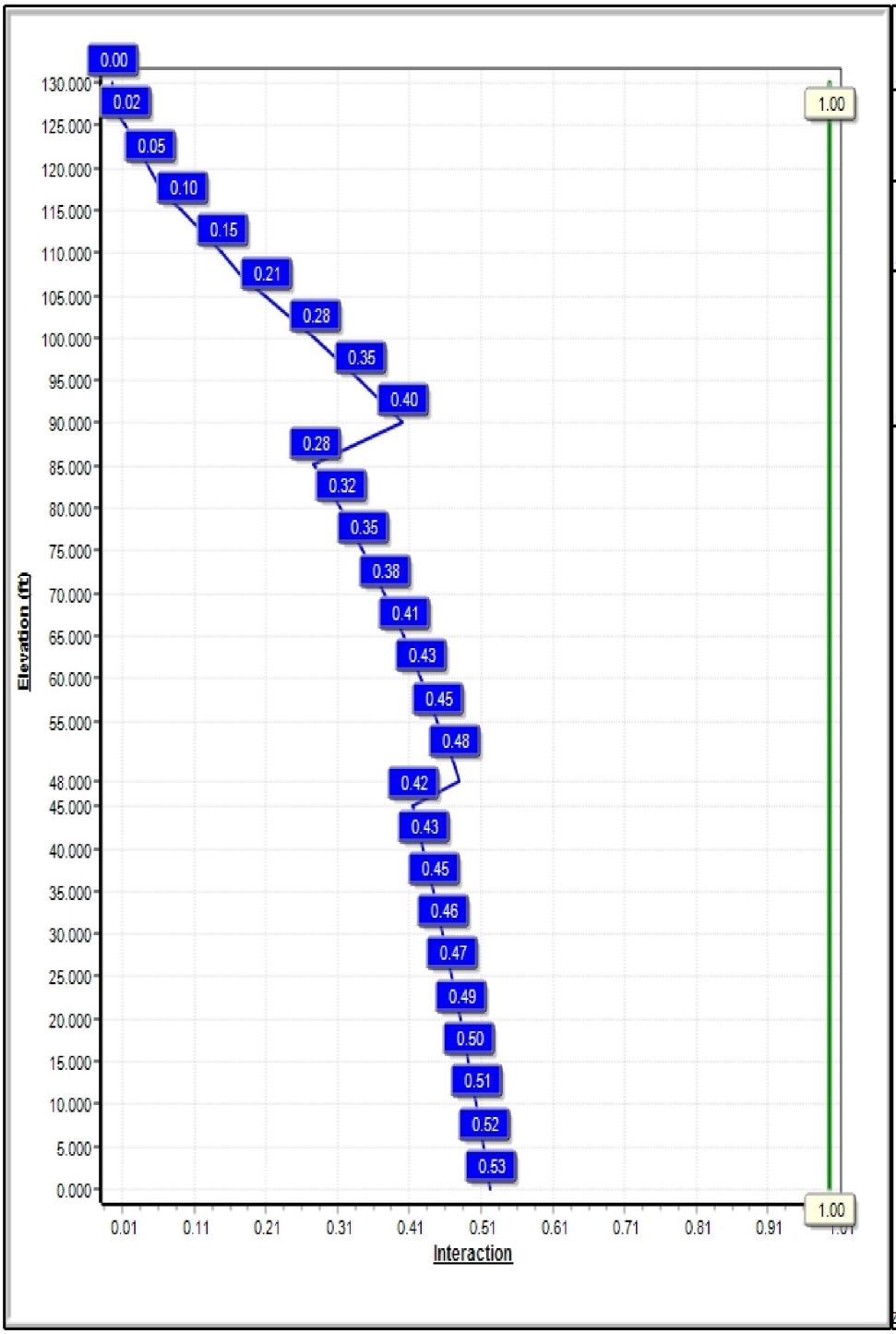
Structure:	CT13615-A-SBA	**Code:**	EIA/TIA-222-G	1/26/2022
Site Name:	Madison 7, CT	**Exposure:**	C	
Height:	130.00 (ft)	**Gh:**	1.1	
Base Elev:	0.000 (ft)			Page: 1

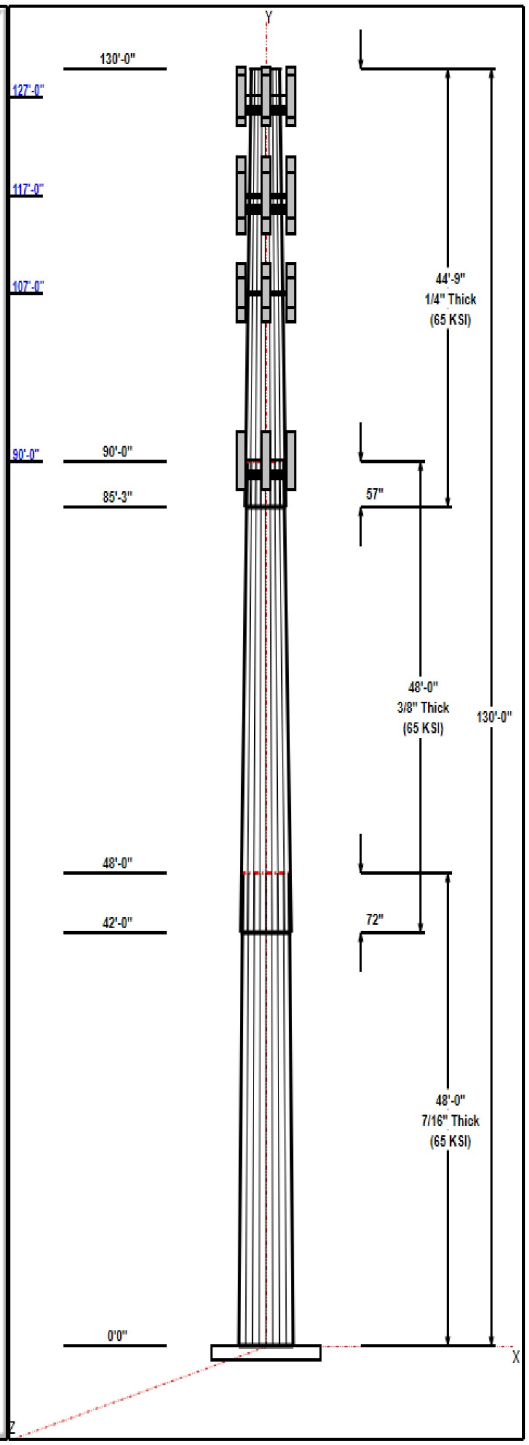
Tower Engineering Solutions

Dead Load Factor:	1.20	**Iterations:**	20
Wind Load Factor:	1.60		

Load Case : 1.2D + 1.6W 101 mph Wind







Structure: CT13615-A-SBA

Type: Tapered
Site Name: Madison 7, CT
Height: 130.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 18 Sided
Taper: 0.24800

1/26/2022

Tower Engineering Solutions

Shaft Properties

Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	48.00	46.10	58.00	0.438		0.24800	65
2	48.00	36.43	48.33	0.375	Slip	0.24800	65
3	44.75	27.01	38.11	0.250	Slip	0.24800	65

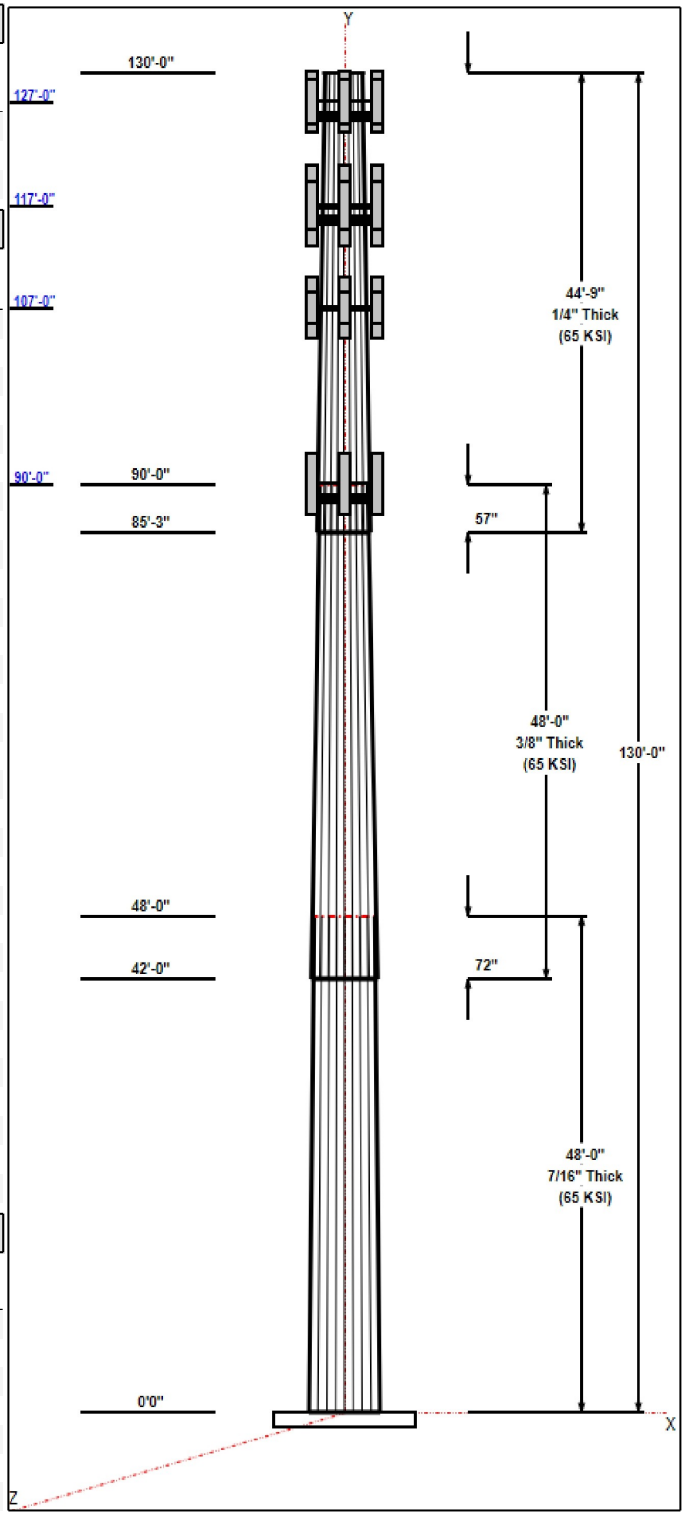
Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
127.00	127.00	3	Powerwave	AT&T
127.00	127.00	6	Powerwave	AT&T
127.00	127.00	3	Raycap DC6-48-60-18-8F	AT&T
127.00	127.00	1	HRK14	AT&T
127.00	127.00	1	Platform w/ Hand Rail	AT&T
127.00	127.00	3	Quintel QS46512-2	AT&T
127.00	127.00	3	Ericsson RRUS 32	AT&T
127.00	127.00	3	800-10964	AT&T
127.00	127.00	6	DBC0061F1V51-2	AT&T
127.00	127.00	3	RRUS 8843 B2 B66A	AT&T
127.00	127.00	3	4449 B5/B12	AT&T
117.00	117.00	3	Ericsson Air 21 B2A/B4P	T-Mobile
117.00	117.00	3	APXVAARR24_43-U-NA20	T-Mobile
117.00	117.00	3	Ericsson Air 21 B4A/B2P	T-Mobile
117.00	117.00	1	Sitepro PRK-1245	T-Mobile
117.00	117.00	1	Sitepro HRK12-U	T-Mobile
117.00	117.00	3	Ericsson KRY 112 144/1	T-Mobile
117.00	117.00	3	Ericsson Radio 4449	T-Mobile
117.00	117.00	1	12.5' Low Profile Platform	T-Mobile
107.00	107.00	1	Low Profile Platform	Verizon
107.00	107.00	3	Commscope	Verizon
107.00	107.00	6	JMA Wireless	Verizon
107.00	107.00	3	Samsung MT6407-77A	Verizon
107.00	107.00	3	Samsung RF4439d-25A	Verizon
107.00	107.00	3	Samsung RF4440d-13A	Verizon
107.00	107.00	1	Raycap	Verizon
90.00	90.00	3	MX08FRO665-21	Dish Wireless
90.00	90.00	3	TA08025-B604	Dish Wireless
90.00	90.00	3	TA08025-B605	Dish Wireless
90.00	90.00	1	RDIDC-9181-OF-48	Dish Wireless
90.00	90.00	1	MC-PK8-DSH	Dish Wireless

Linear Appurtenances

Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
0.00	127.00	Inside	1 5/8"	AT&T
0.00	127.00	Inside	1/2" Coax	AT&T
0.00	127.00	Inside	1/2" Fiber	AT&T
0.00	127.00	Inside	3" Flex Conduit	AT&T
0.00	127.00	Inside	3/4" DC Power	AT&T
0.00	117.00	Inside	1 5/8" Coax	T-Mobile
0.00	117.00	Inside	1 5/8" Fiber	T-Mobile
0.00	107.00	Inside	1 5/8" Coax	Verizon
0.00	107.00	Inside	1 5/8" Hybrid	Verizon
0.00	90.00	Outside	1.411" Fiber	Dish Wireless

Anchor Bolts



Qty	Specifications	Grade (ksi)	Arrangement
26	1.5" F1554 105	105.0	Radial

Base Plate

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
1.7500	67.0	50.0	Round

Reactions

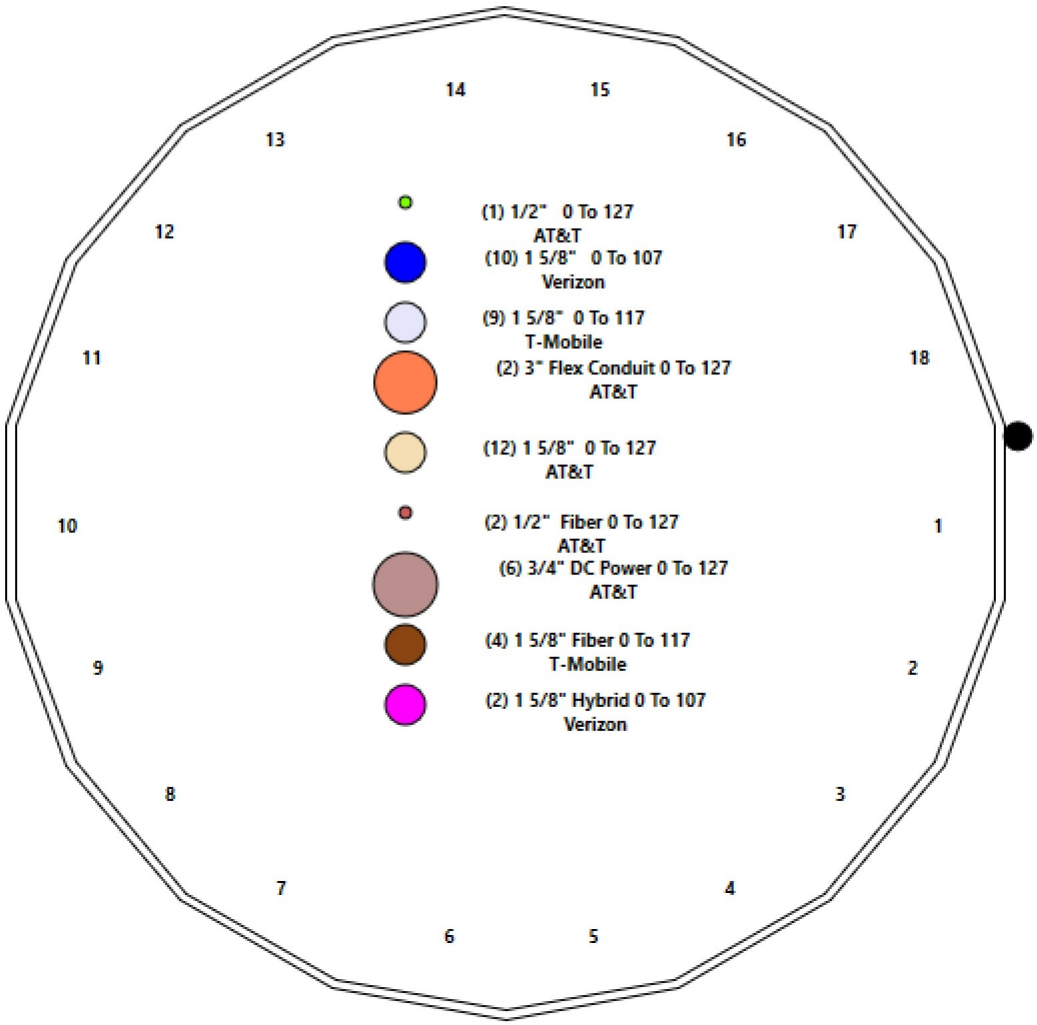
Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.6W 101 mph Wind	3334.1	35.2	50.2
0.9D + 1.6W 101 mph Wind	3313.2	35.2	37.7
1.2D + 1.0Di + 1.0Wi 50 mph Wind	838.9	9.1	75.3
1.2D + 1.0E	190.3	1.8	50.3
0.9D + 1.0E	189.0	1.8	37.7
1.0D + 1.0W 60 mph Wind	732.6	7.8	41.9

Structure: CT13615-A-SBA - Coax Line Placement

Type: Monopole
Site Name: Madison 7, CT
Height: 130.00 (ft)

1/26/2022

Tower Engineering Solutions



Shaft Properties

Structure:	CT13615-A-SBA		**Code:**	TIA-222-G	1/26/2022
Site Name:	Madison 7, CT		**Exposure:**	C	
Height:	130.00 (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	0.4375	65		0.00	11,705
2	18	48.000	0.3750	65	Slip	72.00	8,166
3	18	44.750	0.2500	65	Slip	57.00	3,904
					Total Shaft Weight:		**23,775**

	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	58.00	0.00	79.93	33461.19	21.97	132.57	46.10	48.00	63.40	16698.8	17.17	105.3	0.248000
2	48.33	42.00	57.08	16587.69	21.32	128.89	36.43	90.00	42.91	7048.10	15.72	97.15	0.248000
3	38.11	85.25	30.04	5439.48	25.47	152.43	27.01	130.00	21.23	1921.07	17.64	108.0	0.248000

Load Summary

Structure:	CT13615-A-SBA	**Code:**	TIA-222-G	1/26/2022	
Site Name:	Madison 7, CT	**Exposure:**	C		
Height:	130.00 (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 Ice			Ice				
No.	Elev (ft)	Description	Qty	Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor	Hor. Ecc. (ft)	Vert Ecc (ft)
1	127.00	Powerwave P90-15-XLH-RR	3	53.00	8.16	0.75	215.33	10.916	0.75	0.00	0.00
2	127.00	Powerwave TT19-08BP111-001 TMA	6	16.00	0.64	0.67	35.90	1.223	0.67	0.00	0.00
3	127.00	Raycap DC6-48-60-18-8F	3	32.80	1.47	0.67	93.60	2.158	0.67	0.00	0.00
4	127.00	HRK14	1	302.36	8.13	1.00	655.26	15.944	1.00	0.00	0.00
5	127.00	Platform w/ Hand Rail	1	1600.00	32.00	1.00	3665.18	59.462	1.00	0.00	0.00
6	127.00	Quintel QS46512-2	3	75.00	5.55	0.96	232.82	6.552	0.96	0.00	0.00
7	127.00	Ericsson RRUS 32	3	53.00	2.74	0.67	139.21	3.456	0.67	0.00	0.00
8	127.00	800-10964	3	83.80	10.00	0.72	309.83	11.276	0.72	0.00	0.00
9	127.00	DBC0061F1V51-2	6	26.00	0.43	0.67	40.64	0.711	0.67	0.00	0.00
10	127.00	RRUS 8843 B2 B66A	3	72.00	1.64	0.67	118.07	2.129	0.67	0.00	0.00
11	127.00	4449 B5/B12	3	73.00	1.97	0.67	126.98	2.508	0.67	0.00	0.00
12	117.00	Ericsson Air 21 B2A/B4P	3	91.50	6.09	0.86	255.46	7.159	0.86	0.00	0.00
13	117.00	APXVAARR24_43-U-NA20	3	128.00	20.24	0.70	546.65	22.092	0.70	0.00	0.00
14	117.00	Ericsson Air 21 B4A/B2P	3	91.00	6.09	0.86	254.96	7.159	0.86	0.00	0.00
15	117.00	Sitepro PRK-1245	1	228.00	9.50	1.00	383.26	19.204	1.00	0.00	0.00
16	117.00	Sitepro HRK12-U	1	418.00	9.85	1.00	816.49	21.923	1.00	0.00	0.00
17	117.00	Ericsson KRY 112 144/1	3	11.00	0.41	0.67	21.52	0.874	0.67	0.00	0.00
18	117.00	Ericsson Radio 4449 B71+B12	3	74.00	1.65	0.67	140.15	2.173	0.67	0.00	0.00
19	117.00	12.5' Low Profile Platform	1	1600.00	25.55	1.00	3302.39	31.576	1.00	0.00	0.00
20	107.00	Low Profile Platform	1	1200.00	25.00	1.00	2212.35	45.247	1.00	0.00	0.00
21	107.00	Commscope SBNHH-1D65B	3	40.60	8.08	0.83	234.27	9.326	0.83	0.00	0.00
22	107.00	JMA Wireless MX06FRO660-03	6	46.00	9.87	0.87	304.72	11.198	0.87	0.00	0.00
23	107.00	Samsung MT6407-77A	3	79.40	4.69	0.70	194.16	5.604	0.70	0.00	0.00
24	107.00	Samsung RF4439d-25A	3	62.80	1.46	0.67	103.53	1.936	0.67	0.00	0.00
25	107.00	Samsung RF4440d-13A	3	62.80	1.46	0.67	103.53	1.936	0.67	0.00	0.00
26	107.00	Raycap RRFDC-6627-PF-48	1	32.00	4.06	0.67	139.98	4.855	0.67	0.00	0.00
27	90.00	MX08FRO665-21	3	64.50	12.49	0.74	340.89	13.882	0.74	0.00	0.00
28	90.00	TA08025-B604	3	63.90	1.96	0.76	112.01	2.493	0.76	0.00	0.00
29	90.00	TA08025-B605	3	75.00	1.96	0.67	124.70	2.493	0.67	0.00	0.00
30	90.00	RDIDC-9181-OF-48	1	21.90	2.01	0.67	72.50	2.550	0.67	0.00	0.00
31	90.00	MC-PK8-DSH	1	1727.00	37.59	1.00	3330.78	82.472	1.00	0.00	0.00
		Totals:	**84**	**11,518.56**			**27,868.75**				

Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed
0.00	127.00	(12) 1 5/8"	0.00	Inside
0.00	127.00	(1) 1/2" Coax	0.00	Inside
0.00	127.00	(2) 1/2" Fiber	0.00	Inside
0.00	127.00	(2) 3" Flex Conduit	0.00	Inside
0.00	127.00	(6) 3/4" DC Power	0.00	Inside
0.00	117.00	(9) 1 5/8" Coax	0.00	Inside
0.00	117.00	(4) 1 5/8" Fiber	0.00	Inside
0.00	107.00	(10) 1 5/8" Coax	0.00	Inside
0.00	107.00	(2) 1 5/8" Hybrid	0.00	Inside
0.00	90.00	(1) 1.411" Fiber	1.41	Outside

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)

Shaft Section Properties

Structure:	CT13615-A-SBA	**Code:**	TIA-222-G	1/26/2022	
Site Name:	Madison 7, CT	**Exposure:**	C		
Height:	130.00 (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	

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		0.4375	58.000	79.930	33461.2	21.97	132.57	75.6	1136.	0.0
5.00		0.4375	56.760	78.208	31345.0	21.47	129.74	76.2	1087.	1345.3
10.00		0.4375	55.520	76.486	29320.0	20.97	126.90	76.7	1040.	1316.0
15.00		0.4375	54.280	74.764	27384.1	20.47	124.07	77.3	993.7	1286.7
20.00		0.4375	53.040	73.043	25535.3	19.97	121.23	77.9	948.2	1257.4
25.00		0.4375	51.800	71.321	23771.7	19.47	118.40	78.5	903.9	1228.1
30.00		0.4375	50.560	69.599	22091.3	18.97	115.57	79.1	860.6	1198.8
35.00		0.4375	49.320	67.877	20491.9	18.47	112.73	79.7	818.4	1169.5
40.00		0.4375	48.080	66.155	18971.7	17.97	109.90	80.3	777.2	1140.2
42.00	Bot - Section 2	0.4375	47.584	65.466	18385.3	17.77	108.76	80.5	761.0	447.9
45.00		0.4375	46.840	64.433	17528.6	17.47	107.06	80.9	737.1	1241.2
48.00	Top - Section 1	0.3750	46.846	55.310	15091.1	20.62	124.92	0.0	0.0	1221.6
50.00		0.3750	46.350	54.720	14613.0	20.38	123.60	77.4	621.0	374.4
55.00		0.3750	45.110	53.244	13462.3	19.80	120.29	78.1	587.8	918.4
60.00		0.3750	43.870	51.768	12373.5	19.22	116.99	78.8	555.5	893.3
65.00		0.3750	42.630	50.292	11345.1	18.63	113.68	79.5	524.2	868.2
70.00		0.3750	41.390	48.816	10375.4	18.05	110.37	80.2	493.7	843.1
75.00		0.3750	40.150	47.340	9462.5	17.47	107.07	80.9	464.2	818.0
80.00		0.3750	38.910	45.865	8604.8	16.89	103.76	81.5	435.6	792.9
85.00		0.3750	37.670	44.389	7800.6	16.30	100.45	82.2	407.9	767.8
85.25	Bot - Section 3	0.3750	37.608	44.315	7761.8	16.27	100.29	82.3	406.5	37.7
90.00	Top - Section 2	0.2500	36.930	29.105	4947.3	24.64	147.72	0.0	0.0	1182.9
95.00		0.2500	35.690	28.121	4462.4	23.76	142.76	73.5	246.3	486.8
100.00		0.2500	34.450	27.137	4010.2	22.89	137.80	74.5	229.3	470.1
105.00		0.2500	33.210	26.153	3589.6	22.01	132.84	75.5	212.9	453.3
107.00		0.2500	32.714	25.759	3430.0	21.66	130.86	75.9	206.5	176.6
110.00		0.2500	31.970	25.169	3199.5	21.14	127.88	76.5	197.1	259.9
115.00		0.2500	30.730	24.185	2838.8	20.26	122.92	77.6	181.9	419.9
117.00		0.2500	30.234	23.791	2702.4	19.91	120.94	78.0	176.1	163.3
120.00		0.2500	29.490	23.201	2506.2	19.39	117.96	78.6	167.4	239.9
125.00		0.2500	28.250	22.217	2200.7	18.51	113.00	79.6	153.4	386.4
127.00		0.2500	27.754	21.824	2085.8	18.16	111.02	80.0	148.0	149.9
130.00		0.2500	27.010	21.233	1921.1	17.64	108.04	80.7	140.1	219.8
										23775.2

Wind Loading - Shaft

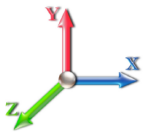
Structure:	CT13615-A-SBA	**Code:**	TIA-222-G	1/26/2022	
Site Name:	Madison 7, CT	**Exposure:**	C		
Height:	130.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 9	

Tower Engineering Solutions

Load Case: 1.2D + 1.6W 101 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



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	0.85	21.088	23.20	457.01	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	21.088	23.20	447.24	0.650	0.000	5.00	24.277	15.78	585.7	0.0	1614.3
10.00		1.00	0.85	21.088	23.20	437.47	0.650	0.000	5.00	23.753	15.44	573.0	0.0	1579.2
15.00		1.00	0.85	21.088	23.20	427.70	0.650	0.000	5.00	23.228	15.10	560.4	0.0	1544.0
20.00		1.00	0.90	22.375	24.61	430.49	0.650	0.000	5.00	22.703	14.76	581.1	0.0	1508.9
25.00		1.00	0.95	23.451	25.80	430.42	0.650	0.000	5.00	22.179	14.42	595.0	0.0	1473.7
30.00		1.00	0.98	24.369	26.81	428.26	0.650	0.000	5.00	21.654	14.08	603.7	0.0	1438.6
35.00		1.00	1.01	25.172	27.69	424.59	0.650	0.000	5.00	21.129	13.73	608.5	0.0	1403.4
40.00		1.00	1.04	25.890	28.48	419.77	0.650	0.000	5.00	20.605	13.39	610.3	0.0	1368.2
42.00	Bot - Section 2	1.00	1.05	26.157	28.77	417.58	0.650	0.000	2.00	8.095	5.26	242.2	0.0	537.5
45.00		1.00	1.07	26.540	29.19	414.05	0.650	0.000	3.00	12.175	7.91	369.7	0.0	1489.5
48.00	Top - Section 1	1.00	1.08	26.903	29.59	410.25	0.650	0.000	3.00	11.987	7.79	368.9	0.0	1466.0
50.00		1.00	1.09	27.135	29.85	414.29	0.650	0.000	2.00	7.886	5.13	244.8	0.0	449.3
55.00		1.00	1.12	27.685	30.45	407.27	0.650	0.000	5.00	19.348	12.58	612.8	0.0	1102.1
60.00		1.00	1.14	28.197	31.02	399.72	0.650	0.000	5.00	18.823	12.24	607.2	0.0	1072.0
65.00		1.00	1.16	28.676	31.54	391.71	0.650	0.000	5.00	18.299	11.89	600.3	0.0	1041.9
70.00		1.00	1.17	29.127	32.04	383.29	0.650	0.000	5.00	17.774	11.55	592.3	0.0	1011.7
75.00		1.00	1.19	29.553	32.51	374.52	0.650	0.000	5.00	17.250	11.21	583.2	0.0	981.6
80.00		1.00	1.21	29.958	32.95	365.43	0.650	0.000	5.00	16.725	10.87	573.2	0.0	951.5
85.00		1.00	1.22	30.342	33.38	356.05	0.650	0.000	5.00	16.200	10.53	562.3	0.0	921.3
85.25	Bot - Section 3	1.00	1.22	30.361	33.40	355.57	0.650	0.000	0.25	0.796	0.52	27.7	0.0	45.3
90.00	Top - Section 2	1.00	1.24	30.710	33.78	346.40	0.650	0.000	4.75	15.080	9.80	529.8	0.0	1419.5
95.00		1.00	1.25	31.061	34.17	341.30	0.650	0.000	5.00	15.363	9.99	545.9	0.0	584.2
100.00		1.00	1.27	31.399	34.54	331.23	0.650	0.000	5.00	14.838	9.64	533.0	0.0	564.1
105.00		1.00	1.28	31.723	34.89	320.95	0.650	0.000	5.00	14.313	9.30	519.4	0.0	544.0
107.00	Appurtenance(s)	1.00	1.28	31.849	35.03	316.79	0.650	0.000	2.00	5.578	3.63	203.3	0.0	212.0
110.00		1.00	1.29	32.035	35.24	310.48	0.650	0.000	3.00	8.210	5.34	300.9	0.0	311.9
115.00		1.00	1.30	32.336	35.57	299.84	0.650	0.000	5.00	13.264	8.62	490.7	0.0	503.8
117.00	Appurtenance(s)	1.00	1.31	32.454	35.70	295.54	0.650	0.000	2.00	5.159	3.35	191.5	0.0	195.9
120.00		1.00	1.32	32.627	35.89	289.03	0.650	0.000	3.00	7.581	4.93	283.0	0.0	287.8
125.00		1.00	1.33	32.909	36.20	278.07	0.650	0.000	5.00	12.215	7.94	459.9	0.0	463.6
127.00	Appurtenance(s)	1.00	1.33	33.019	36.32	273.65	0.650	0.000	2.00	4.739	3.08	179.0	0.0	179.8
130.00		1.00	1.34	33.182	36.50	266.97	0.650	0.000	3.00	6.951	4.52	263.9	0.0	263.7
								Totals:	**130.00**			**14,602.2**		**28,530.3**

Discrete Appurtenance Forces

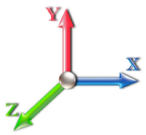
Structure:	CT13615-A-SBA	**Code:**	TIA-222-G	1/26/2022	
Site Name:	Madison 7, CT	**Exposure:**	C		
Height:	130.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 10	

Tower Engineering Solutions

Load Case: 1.2D + 1.6W 101 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



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	127.00	Platform w/ Hand Rail	1	33.019	36.321	1.00	1.00	32.00	1920.00	0.000	0.000	1859.62	0.00	0.00
2	127.00	Powerwave	3	33.019	36.321	0.56	0.75	13.77	190.80	0.000	0.000	800.22	0.00	0.00
3	127.00	Powerwave	6	33.019	36.321	0.50	0.75	1.93	115.20	0.000	0.000	112.14	0.00	0.00
4	127.00	Raycap DC6-48-60-18-8F	3	33.019	36.321	0.50	0.75	2.22	118.08	0.000	0.000	128.78	0.00	0.00
5	127.00	HRK14	1	33.019	36.321	1.00	1.00	8.13	362.83	0.000	0.000	472.46	0.00	0.00
6	127.00	4449 B5/B12	3	33.019	36.321	0.50	0.75	2.97	262.80	0.000	0.000	172.58	0.00	0.00
7	127.00	Quintel QS46512-2	3	33.019	36.321	0.72	0.75	11.99	270.00	0.000	0.000	696.66	0.00	0.00
8	127.00	Ericsson RRUS 32	3	33.019	36.321	0.50	0.75	4.13	190.80	0.000	0.000	240.04	0.00	0.00
9	127.00	800-10964	3	33.019	36.321	0.54	0.75	16.20	301.68	0.000	0.000	941.43	0.00	0.00
10	127.00	DBC0061F1V51-2	6	33.019	36.321	0.50	0.75	1.30	187.20	0.000	0.000	75.34	0.00	0.00
11	127.00	RRUS 8843 B2 B66A	3	33.019	36.321	0.50	0.75	2.47	259.20	0.000	0.000	143.67	0.00	0.00
12	117.00	12.5' Low Profile Platform	1	32.454	35.699	1.00	1.00	25.55	1920.00	0.000	0.000	1459.38	0.00	0.00
13	117.00	Ericsson Radio 4449	3	32.454	35.699	0.50	0.75	2.49	266.40	0.000	0.000	142.08	0.00	0.00
14	117.00	Ericsson KRY 112 144/1	3	32.454	35.699	0.50	0.75	0.62	39.60	0.000	0.000	35.30	0.00	0.00
15	117.00	Sitepro HRK12-U	1	32.454	35.699	1.00	1.00	9.85	501.60	0.000	0.000	562.62	0.00	0.00
16	117.00	Sitepro PRK-1245	1	32.454	35.699	1.00	1.00	9.50	273.60	0.000	0.000	542.63	0.00	0.00
17	117.00	APXVAARR24_43-U-NA2	3	32.454	35.699	0.52	0.75	31.88	460.80	0.000	0.000	1820.82	0.00	0.00
18	117.00	Ericsson Air 21 B2A/B4P	3	32.454	35.699	0.65	0.75	11.78	329.40	0.000	0.000	673.09	0.00	0.00
19	117.00	Ericsson Air 21 B4A/B2P	3	32.454	35.699	0.65	0.75	11.78	327.60	0.000	0.000	673.09	0.00	0.00
20	107.00	Samsung MT6407-77A	3	31.849	35.034	0.56	0.80	7.88	285.84	0.000	0.000	441.66	0.00	0.00
21	107.00	Low Profile Platform	1	31.849	35.034	1.00	1.00	25.00	1440.00	0.000	0.000	1401.35	0.00	0.00
22	107.00	Commscope	3	31.849	35.034	0.66	0.80	16.10	146.16	0.000	0.000	902.21	0.00	0.00
23	107.00	JMA Wireless	6	31.849	35.034	0.70	0.80	41.22	331.20	0.000	0.000	2310.39	0.00	0.00
24	107.00	Samsung RF4439d-25A	3	31.849	35.034	0.54	0.80	2.35	226.08	0.000	0.000	131.60	0.00	0.00
25	107.00	Samsung RF4440d-13A	3	31.849	35.034	0.54	0.80	2.35	226.08	0.000	0.000	131.60	0.00	0.00
26	107.00	Raycap	1	31.849	35.034	0.54	0.80	2.18	38.40	0.000	0.000	121.98	0.00	0.00
27	90.00	MC-PK8-DSH	1	30.710	33.781	1.00	1.00	37.59	2072.40	0.000	0.000	2031.71	0.00	0.00
28	90.00	RDIDC-9181-OF-48	1	30.710	33.781	0.50	0.75	1.01	26.28	0.000	0.000	54.59	0.00	0.00
29	90.00	TA08025-B605	3	30.710	33.781	0.50	0.75	2.95	270.00	0.000	0.000	159.70	0.00	0.00
30	90.00	TA08025-B604	3	30.710	33.781	0.57	0.75	3.35	230.04	0.000	0.000	181.15	0.00	0.00
31	90.00	MX08FRO665-21	3	30.710	33.781	0.55	0.75	20.80	232.20	0.000	0.000	1124.00	0.00	0.00
							Totals:		**13,822.27**			**20,543.91**		

Total Applied Force Summary

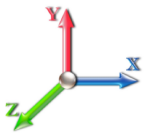
Structure:	CT13615-A-SBA	**Code:**	TIA-222-G	1/26/2022	
Site Name:	Madison 7, CT	**Exposure:**	C		
Height:	130.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 11	

Tower Engineering Solutions

Load Case: 1.2D + 1.6W 101 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



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		585.66	1944.62	0.00	0.00
10.00		573.01	1909.47	0.00	0.00
15.00		560.35	1874.32	0.00	0.00
20.00		581.13	1839.16	0.00	0.00
25.00		595.00	1804.01	0.00	0.00
30.00		603.66	1768.85	0.00	0.00
35.00		608.46	1733.70	0.00	0.00
40.00		610.27	1698.55	0.00	0.00
42.00		242.23	669.58	0.00	0.00
45.00		369.67	1687.64	0.00	0.00
48.00		368.91	1664.13	0.00	0.00
50.00		244.81	581.41	0.00	0.00
55.00		612.79	1432.43	0.00	0.00
60.00		607.20	1402.30	0.00	0.00
65.00		600.31	1372.17	0.00	0.00
70.00		592.26	1342.03	0.00	0.00
75.00		583.19	1311.90	0.00	0.00
80.00		573.19	1281.77	0.00	0.00
85.00		562.34	1251.64	0.00	0.00
85.25		27.66	61.79	0.00	0.00
90.00	(11) attachments	4080.95	4564.21	0.00	0.00
95.00		545.89	914.17	0.00	0.00
100.00		532.98	894.09	0.00	0.00
105.00		519.44	874.00	0.00	0.00
107.00	(20) attachments	5644.05	3037.73	0.00	0.00
110.00		300.89	464.58	0.00	0.00
115.00		490.67	758.22	0.00	0.00
117.00	(18) attachments	6100.54	4416.66	0.00	0.00
120.00		282.95	390.93	0.00	0.00
125.00		459.86	635.49	0.00	0.00
127.00	(35) attachments	5821.96	4427.16	0.00	0.00
130.00		263.86	263.72	0.00	0.00
	Totals:	**35,146.15**	**50,272.41**	**0.00**	**0.00**

Linear Appurtenance Segment Forces (Factored)

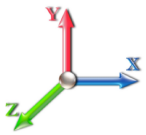
Structure:	CT13615-A-SBA	**Code:**	TIA-222-G	1/26/2022	
Site Name:	Madison 7, CT	**Exposure:**	C		
Height:	130.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 12	

Tower Engineering Solutions

Load Case: 1.2D + 1.6W 101 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 20

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.024	0.000	21.088	0.00	0.30
10.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.025	0.000	21.088	0.00	0.30
15.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.025	0.000	21.088	0.00	0.30
20.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.026	0.000	22.375	0.00	0.30
25.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.026	0.000	23.451	0.00	0.30
30.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.027	0.000	24.369	0.00	0.30
35.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.028	0.000	25.172	0.00	0.30
40.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.029	0.000	25.890	0.00	0.30
42.00	1.411" Fiber	Yes	2.00	0.000	1.41	0.23	0.00	0.029	0.000	26.157	0.00	0.12
45.00	1.411" Fiber	Yes	3.00	0.000	1.41	0.35	0.00	0.029	0.000	26.540	0.00	0.18
48.00	1.411" Fiber	Yes	3.00	0.000	1.41	0.35	0.00	0.030	0.000	26.903	0.00	0.18
50.00	1.411" Fiber	Yes	2.00	0.000	1.41	0.23	0.00	0.030	0.000	27.135	0.00	0.12
55.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.030	0.000	27.685	0.00	0.30
60.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.031	0.000	28.197	0.00	0.30
65.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.032	0.000	28.676	0.00	0.30
70.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.033	0.000	29.127	0.00	0.30
75.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.034	0.000	29.553	0.00	0.30
80.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.035	0.000	29.958	0.00	0.30
85.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.036	0.000	30.342	0.00	0.30
85.25	1.411" Fiber	Yes	0.25	0.000	1.41	0.03	0.00	0.037	0.000	30.361	0.00	0.01
90.00	1.411" Fiber	Yes	4.75	0.000	1.41	0.56	0.00	0.038	0.000	30.710	0.00	0.28
										Totals:	**0.0**	**5.4**

Calculated Forces

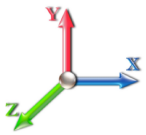
Structure:	CT13615-A-SBA	**Code:**	TIA-222-G	1/26/2022	
Site Name:	Madison 7, CT	**Exposure:**	C		
Height:	130.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 13	

Tower Engineering Solutions

Load Case: 1.2D + 1.6W 101 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



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	-50.23	-35.21	0.00	-3334.0	0.00	3334.06	5435.95	2717.97	12860.7	6439.91	0.00	0.000	0.000	0.527
5.00	-48.20	-34.74	0.00	-3158.0	0.00	3158.03	5360.22	2680.11	12406.3	6212.37	0.07	-0.138	0.000	0.518
10.00	-46.21	-34.27	0.00	-2984.3	0.00	2984.34	5282.67	2641.34	11955.5	5986.66	0.29	-0.277	0.000	0.507
15.00	-44.26	-33.81	0.00	-2813.0	0.00	2813.00	5203.30	2601.65	11508.7	5762.93	0.66	-0.418	0.000	0.497
20.00	-42.34	-33.32	0.00	-2643.9	0.00	2643.96	5122.11	2561.06	11066.1	5541.30	1.18	-0.560	0.000	0.486
25.00	-40.46	-32.80	0.00	-2477.3	0.00	2477.39	5039.10	2519.55	10628.0	5321.92	1.84	-0.702	0.000	0.474
30.00	-38.62	-32.27	0.00	-2313.3	0.00	2313.38	4954.26	2477.13	10194.7	5104.94	2.65	-0.846	0.000	0.461
35.00	-36.82	-31.73	0.00	-2152.0	0.00	2152.02	4867.60	2433.80	9766.46	4890.49	3.62	-0.990	0.000	0.448
40.00	-35.07	-31.15	0.00	-1993.3	0.00	1993.39	4779.12	2389.56	9343.53	4678.71	4.73	-1.133	0.000	0.434
42.00	-34.37	-30.94	0.00	-1931.0	0.00	1931.09	4743.22	2371.61	9175.92	4594.78	5.22	-1.192	0.000	0.428
45.00	-32.64	-30.58	0.00	-1838.2	0.00	1838.29	4688.82	2344.41	8926.23	4469.75	6.00	-1.280	0.000	0.418
48.00	-30.95	-30.21	0.00	-1746.5	0.00	1746.55	3840.55	1920.27	7332.01	3671.45	6.83	-1.367	0.000	0.484
50.00	-30.32	-30.01	0.00	-1686.1	0.00	1686.13	3813.07	1906.53	7201.22	3605.96	7.42	-1.425	0.000	0.476
55.00	-28.82	-29.44	0.00	-1536.0	0.00	1536.08	3743.08	1871.54	6876.85	3443.54	8.99	-1.582	0.000	0.454
60.00	-27.36	-28.86	0.00	-1388.8	0.00	1388.88	3671.28	1835.64	6556.42	3283.08	10.73	-1.737	0.000	0.431
65.00	-25.94	-28.29	0.00	-1244.5	0.00	1244.57	3597.66	1798.83	6240.20	3124.74	12.64	-1.888	0.000	0.406
70.00	-24.54	-27.71	0.00	-1103.1	0.00	1103.13	3522.21	1761.10	5928.48	2968.65	14.69	-2.035	0.000	0.379
75.00	-23.19	-27.14	0.00	-964.56	0.00	964.56	3444.94	1722.47	5621.53	2814.94	16.90	-2.177	0.000	0.350
80.00	-21.87	-26.56	0.00	-828.88	0.00	828.88	3365.85	1682.92	5319.64	2663.77	19.26	-2.312	0.000	0.318
85.00	-20.61	-25.97	0.00	-696.06	0.00	696.06	3284.94	1642.47	5023.09	2515.28	21.75	-2.438	0.000	0.283
85.25	-20.53	-25.97	0.00	-689.56	0.00	689.56	3280.84	1640.42	5008.41	2507.93	21.88	-2.444	0.000	0.281
90.00	-16.10	-21.72	0.00	-566.23	0.00	566.23	1897.08	948.54	2862.22	1433.24	24.37	-2.554	0.000	0.404
95.00	-15.17	-21.16	0.00	-457.64	0.00	457.64	1858.98	929.49	2709.28	1356.65	27.10	-2.657	0.000	0.346
100.00	-14.26	-20.62	0.00	-351.83	0.00	351.83	1819.06	909.53	2557.69	1280.75	29.95	-2.786	0.000	0.283
105.00	-13.39	-20.07	0.00	-248.74	0.00	248.74	1777.32	888.66	2407.73	1205.66	32.93	-2.893	0.000	0.214
107.00	-10.63	-14.29	0.00	-208.60	0.00	208.60	1760.11	880.05	2348.27	1175.88	34.15	-2.929	0.000	0.184
110.00	-10.17	-13.97	0.00	-165.74	0.00	165.74	1733.75	866.88	2259.69	1131.52	36.01	-2.975	0.000	0.153
115.00	-9.43	-13.45	0.00	-95.87	0.00	95.87	1688.37	844.18	2113.84	1058.49	39.16	-3.034	0.000	0.096
117.00	-5.34	-7.12	0.00	-68.98	0.00	68.98	1669.70	834.85	2056.18	1029.62	40.43	-3.050	0.000	0.070
120.00	-4.97	-6.82	0.00	-47.60	0.00	47.60	1641.16	820.58	1970.46	986.70	42.35	-3.068	0.000	0.051
125.00	-4.36	-6.33	0.00	-13.49	0.00	13.49	1592.13	796.06	1829.84	916.28	45.58	-3.086	0.000	0.018
127.00	-0.25	-0.28	0.00	-0.83	0.00	0.83	1572.01	786.00	1774.43	888.53	46.87	-3.088	0.000	0.001
130.00	0.00	-0.26	0.00	0.00	0.00	0.00	1541.28	770.64	1692.26	847.39	48.81	-3.088	0.000	0.000

Wind Loading - Shaft

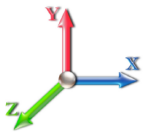
Structure:	CT13615-A-SBA	**Code:**	TIA-222-G	1/26/2022	
Site Name:	Madison 7, CT	**Exposure:**	C		
Height:	130.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 14	

Tower Engineering Solutions

Load Case: 0.9D + 1.6W 101 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



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	0.85	21.088	23.20	457.01	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	21.088	23.20	447.24	0.650	0.000	5.00	24.277	15.78	585.7	0.0	1210.7
10.00		1.00	0.85	21.088	23.20	437.47	0.650	0.000	5.00	23.753	15.44	573.0	0.0	1184.4
15.00		1.00	0.85	21.088	23.20	427.70	0.650	0.000	5.00	23.228	15.10	560.4	0.0	1158.0
20.00		1.00	0.90	22.375	24.61	430.49	0.650	0.000	5.00	22.703	14.76	581.1	0.0	1131.6
25.00		1.00	0.95	23.451	25.80	430.42	0.650	0.000	5.00	22.179	14.42	595.0	0.0	1105.3
30.00		1.00	0.98	24.369	26.81	428.26	0.650	0.000	5.00	21.654	14.08	603.7	0.0	1078.9
35.00		1.00	1.01	25.172	27.69	424.59	0.650	0.000	5.00	21.129	13.73	608.5	0.0	1052.5
40.00		1.00	1.04	25.890	28.48	419.77	0.650	0.000	5.00	20.605	13.39	610.3	0.0	1026.2
42.00	Bot - Section 2	1.00	1.05	26.157	28.77	417.58	0.650	0.000	2.00	8.095	5.26	242.2	0.0	403.1
45.00		1.00	1.07	26.540	29.19	414.05	0.650	0.000	3.00	12.175	7.91	369.7	0.0	1117.1
48.00	Top - Section 1	1.00	1.08	26.903	29.59	410.25	0.650	0.000	3.00	11.987	7.79	368.9	0.0	1099.5
50.00		1.00	1.09	27.135	29.85	414.29	0.650	0.000	2.00	7.886	5.13	244.8	0.0	337.0
55.00		1.00	1.12	27.685	30.45	407.27	0.650	0.000	5.00	19.348	12.58	612.8	0.0	826.6
60.00		1.00	1.14	28.197	31.02	399.72	0.650	0.000	5.00	18.823	12.24	607.2	0.0	804.0
65.00		1.00	1.16	28.676	31.54	391.71	0.650	0.000	5.00	18.299	11.89	600.3	0.0	781.4
70.00		1.00	1.17	29.127	32.04	383.29	0.650	0.000	5.00	17.774	11.55	592.3	0.0	758.8
75.00		1.00	1.19	29.553	32.51	374.52	0.650	0.000	5.00	17.250	11.21	583.2	0.0	736.2
80.00		1.00	1.21	29.958	32.95	365.43	0.650	0.000	5.00	16.725	10.87	573.2	0.0	713.6
85.00		1.00	1.22	30.342	33.38	356.05	0.650	0.000	5.00	16.200	10.53	562.3	0.0	691.0
85.25	Bot - Section 3	1.00	1.22	30.361	33.40	355.57	0.650	0.000	0.25	0.796	0.52	27.7	0.0	34.0
90.00	Top - Section 2	1.00	1.24	30.710	33.78	346.40	0.650	0.000	4.75	15.080	9.80	529.8	0.0	1064.6
95.00		1.00	1.25	31.061	34.17	341.30	0.650	0.000	5.00	15.363	9.99	545.9	0.0	438.1
100.00		1.00	1.27	31.399	34.54	331.23	0.650	0.000	5.00	14.838	9.64	533.0	0.0	423.1
105.00		1.00	1.28	31.723	34.89	320.95	0.650	0.000	5.00	14.313	9.30	519.4	0.0	408.0
107.00	Appurtenance(s)	1.00	1.28	31.849	35.03	316.79	0.650	0.000	2.00	5.578	3.63	203.3	0.0	159.0
110.00		1.00	1.29	32.035	35.24	310.48	0.650	0.000	3.00	8.210	5.34	300.9	0.0	234.0
115.00		1.00	1.30	32.336	35.57	299.84	0.650	0.000	5.00	13.264	8.62	490.7	0.0	377.9
117.00	Appurtenance(s)	1.00	1.31	32.454	35.70	295.54	0.650	0.000	2.00	5.159	3.35	191.5	0.0	146.9
120.00		1.00	1.32	32.627	35.89	289.03	0.650	0.000	3.00	7.581	4.93	283.0	0.0	215.9
125.00		1.00	1.33	32.909	36.20	278.07	0.650	0.000	5.00	12.215	7.94	459.9	0.0	347.7
127.00	Appurtenance(s)	1.00	1.33	33.019	36.32	273.65	0.650	0.000	2.00	4.739	3.08	179.0	0.0	134.9
130.00		1.00	1.34	33.182	36.50	266.97	0.650	0.000	3.00	6.951	4.52	263.9	0.0	197.8
								Totals:	**130.00**			**14,602.2**		**21,397.7**

Discrete Appurtenance Forces

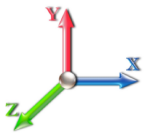
Structure:	CT13615-A-SBA	**Code:**	TIA-222-G	1/26/2022	
Site Name:	Madison 7, CT	**Exposure:**	C		
Height:	130.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 15	

Tower Engineering Solutions

Load Case: 0.9D + 1.6W 101 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



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	127.00	Platform w/ Hand Rail	1	33.019	36.321	1.00	1.00	32.00	1440.00	0.000	0.000	1859.62	0.00	0.00
2	127.00	Powerwave	3	33.019	36.321	0.56	0.75	13.77	143.10	0.000	0.000	800.22	0.00	0.00
3	127.00	Powerwave	6	33.019	36.321	0.50	0.75	1.93	86.40	0.000	0.000	112.14	0.00	0.00
4	127.00	Raycap DC6-48-60-18-8F	3	33.019	36.321	0.50	0.75	2.22	88.56	0.000	0.000	128.78	0.00	0.00
5	127.00	HRK14	1	33.019	36.321	1.00	1.00	8.13	272.12	0.000	0.000	472.46	0.00	0.00
6	127.00	4449 B5/B12	3	33.019	36.321	0.50	0.75	2.97	197.10	0.000	0.000	172.58	0.00	0.00
7	127.00	Quintel QS46512-2	3	33.019	36.321	0.72	0.75	11.99	202.50	0.000	0.000	696.66	0.00	0.00
8	127.00	Ericsson RRUS 32	3	33.019	36.321	0.50	0.75	4.13	143.10	0.000	0.000	240.04	0.00	0.00
9	127.00	800-10964	3	33.019	36.321	0.54	0.75	16.20	226.26	0.000	0.000	941.43	0.00	0.00
10	127.00	DBC0061F1V51-2	6	33.019	36.321	0.50	0.75	1.30	140.40	0.000	0.000	75.34	0.00	0.00
11	127.00	RRUS 8843 B2 B66A	3	33.019	36.321	0.50	0.75	2.47	194.40	0.000	0.000	143.67	0.00	0.00
12	117.00	12.5' Low Profile Platform	1	32.454	35.699	1.00	1.00	25.55	1440.00	0.000	0.000	1459.38	0.00	0.00
13	117.00	Ericsson Radio 4449	3	32.454	35.699	0.50	0.75	2.49	199.80	0.000	0.000	142.08	0.00	0.00
14	117.00	Ericsson KRY 112 144/1	3	32.454	35.699	0.50	0.75	0.62	29.70	0.000	0.000	35.30	0.00	0.00
15	117.00	Sitepro HRK12-U	1	32.454	35.699	1.00	1.00	9.85	376.20	0.000	0.000	562.62	0.00	0.00
16	117.00	Sitepro PRK-1245	1	32.454	35.699	1.00	1.00	9.50	205.20	0.000	0.000	542.63	0.00	0.00
17	117.00	APXVAARR24_43-U-NA2	3	32.454	35.699	0.52	0.75	31.88	345.60	0.000	0.000	1820.82	0.00	0.00
18	117.00	Ericsson Air 21 B2A/B4P	3	32.454	35.699	0.65	0.75	11.78	247.05	0.000	0.000	673.09	0.00	0.00
19	117.00	Ericsson Air 21 B4A/B2P	3	32.454	35.699	0.65	0.75	11.78	245.70	0.000	0.000	673.09	0.00	0.00
20	107.00	Samsung MT6407-77A	3	31.849	35.034	0.56	0.80	7.88	214.38	0.000	0.000	441.66	0.00	0.00
21	107.00	Low Profile Platform	1	31.849	35.034	1.00	1.00	25.00	1080.00	0.000	0.000	1401.35	0.00	0.00
22	107.00	Commscope	3	31.849	35.034	0.66	0.80	16.10	109.62	0.000	0.000	902.21	0.00	0.00
23	107.00	JMA Wireless	6	31.849	35.034	0.70	0.80	41.22	248.40	0.000	0.000	2310.39	0.00	0.00
24	107.00	Samsung RF4439d-25A	3	31.849	35.034	0.54	0.80	2.35	169.56	0.000	0.000	131.60	0.00	0.00
25	107.00	Samsung RF4440d-13A	3	31.849	35.034	0.54	0.80	2.35	169.56	0.000	0.000	131.60	0.00	0.00
26	107.00	Raycap	1	31.849	35.034	0.54	0.80	2.18	28.80	0.000	0.000	121.98	0.00	0.00
27	90.00	MC-PK8-DSH	1	30.710	33.781	1.00	1.00	37.59	1554.30	0.000	0.000	2031.71	0.00	0.00
28	90.00	RDIDC-9181-OF-48	1	30.710	33.781	0.50	0.75	1.01	19.71	0.000	0.000	54.59	0.00	0.00
29	90.00	TA08025-B605	3	30.710	33.781	0.50	0.75	2.95	202.50	0.000	0.000	159.70	0.00	0.00
30	90.00	TA08025-B604	3	30.710	33.781	0.57	0.75	3.35	172.53	0.000	0.000	181.15	0.00	0.00
31	90.00	MX08FRO665-21	3	30.710	33.781	0.55	0.75	20.80	174.15	0.000	0.000	1124.00	0.00	0.00
							Totals:		**10,366.70**			**20,543.91**		

Total Applied Force Summary

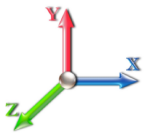
Structure:	CT13615-A-SBA		**Code:**	TIA-222-G	1/26/2022
Site Name:	Madison 7, CT		**Exposure:**	C	
Height:	130.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 16

Tower Engineering Solutions

Load Case: 0.9D + 1.6W 101 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



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		585.66	1458.47	0.00	0.00
10.00		573.01	1432.10	0.00	0.00
15.00		560.35	1405.74	0.00	0.00
20.00		581.13	1379.37	0.00	0.00
25.00		595.00	1353.01	0.00	0.00
30.00		603.66	1326.64	0.00	0.00
35.00		608.46	1300.27	0.00	0.00
40.00		610.27	1273.91	0.00	0.00
42.00		242.23	502.18	0.00	0.00
45.00		369.67	1265.73	0.00	0.00
48.00		368.91	1248.10	0.00	0.00
50.00		244.81	436.06	0.00	0.00
55.00		612.79	1074.32	0.00	0.00
60.00		607.20	1051.72	0.00	0.00
65.00		600.31	1029.12	0.00	0.00
70.00		592.26	1006.52	0.00	0.00
75.00		583.19	983.93	0.00	0.00
80.00		573.19	961.33	0.00	0.00
85.00		562.34	938.73	0.00	0.00
85.25		27.66	46.34	0.00	0.00
90.00	(11) attachments	4080.95	3423.15	0.00	0.00
95.00		545.89	685.63	0.00	0.00
100.00		532.98	670.56	0.00	0.00
105.00		519.44	655.50	0.00	0.00
107.00	(20) attachments	5644.05	2278.30	0.00	0.00
110.00		300.89	348.43	0.00	0.00
115.00		490.67	568.67	0.00	0.00
117.00	(18) attachments	6100.54	3312.50	0.00	0.00
120.00		282.95	293.20	0.00	0.00
125.00		459.86	476.61	0.00	0.00
127.00	(35) attachments	5821.96	3320.37	0.00	0.00
130.00		263.86	197.79	0.00	0.00
	Totals:	**35,146.15**	**37,704.31**	**0.00**	**0.00**

Linear Appurtenance Segment Forces (Factored)

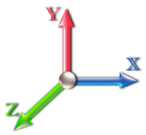
Structure:	CT13615-A-SBA	**Code:**	TIA-222-G	1/26/2022	
Site Name:	Madison 7, CT	**Exposure:**	C		
Height:	130.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 17	

Tower Engineering Solutions

Load Case: 0.9D + 1.6W 101 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 20

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.024	0.000	21.088	0.00	0.23
10.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.025	0.000	21.088	0.00	0.23
15.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.025	0.000	21.088	0.00	0.23
20.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.026	0.000	22.375	0.00	0.23
25.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.026	0.000	23.451	0.00	0.23
30.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.027	0.000	24.369	0.00	0.23
35.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.028	0.000	25.172	0.00	0.23
40.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.029	0.000	25.890	0.00	0.23
42.00	1.411" Fiber	Yes	2.00	0.000	1.41	0.23	0.00	0.029	0.000	26.157	0.00	0.09
45.00	1.411" Fiber	Yes	3.00	0.000	1.41	0.35	0.00	0.029	0.000	26.540	0.00	0.14
48.00	1.411" Fiber	Yes	3.00	0.000	1.41	0.35	0.00	0.030	0.000	26.903	0.00	0.14
50.00	1.411" Fiber	Yes	2.00	0.000	1.41	0.23	0.00	0.030	0.000	27.135	0.00	0.09
55.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.030	0.000	27.685	0.00	0.23
60.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.031	0.000	28.197	0.00	0.23
65.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.032	0.000	28.676	0.00	0.23
70.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.033	0.000	29.127	0.00	0.23
75.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.034	0.000	29.553	0.00	0.23
80.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.035	0.000	29.958	0.00	0.23
85.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.036	0.000	30.342	0.00	0.23
85.25	1.411" Fiber	Yes	0.25	0.000	1.41	0.03	0.00	0.037	0.000	30.361	0.00	0.01
90.00	1.411" Fiber	Yes	4.75	0.000	1.41	0.56	0.00	0.038	0.000	30.710	0.00	0.21
										Totals:	**0.0**	**4.1**

Calculated Forces

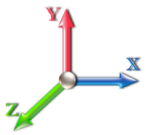
Structure:	CT13615-A-SBA	**Code:**	TIA-222-G	1/26/2022	
Site Name:	Madison 7, CT	**Exposure:**	C		
Height:	130.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 18	

Tower Engineering Solutions

Load Case: 0.9D + 1.6W 101 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



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	-37.66	-35.19	0.00	-3313.1	0.00	3313.15	5435.95	2717.97	12860.7	6439.91	0.00	0.000	0.000	0.522
5.00	-36.12	-34.69	0.00	-3137.1	0.00	3137.19	5360.22	2680.11	12406.3	6212.37	0.07	-0.137	0.000	0.512
10.00	-34.61	-34.20	0.00	-2963.7	0.00	2963.74	5282.67	2641.34	11955.5	5986.66	0.29	-0.276	0.000	0.502
15.00	-33.12	-33.71	0.00	-2792.7	0.00	2792.75	5203.30	2601.65	11508.7	5762.93	0.66	-0.415	0.000	0.491
20.00	-31.67	-33.20	0.00	-2624.2	0.00	2624.20	5122.11	2561.06	11066.1	5541.30	1.17	-0.556	0.000	0.480
25.00	-30.24	-32.66	0.00	-2458.2	0.00	2458.23	5039.10	2519.55	10628.0	5321.92	1.83	-0.697	0.000	0.468
30.00	-28.84	-32.11	0.00	-2294.9	0.00	2294.93	4954.26	2477.13	10194.7	5104.94	2.63	-0.840	0.000	0.456
35.00	-27.47	-31.55	0.00	-2134.3	0.00	2134.37	4867.60	2433.80	9766.46	4890.49	3.59	-0.982	0.000	0.442
40.00	-26.16	-30.96	0.00	-1976.6	0.00	1976.62	4779.12	2389.56	9343.53	4678.71	4.70	-1.125	0.000	0.428
42.00	-25.62	-30.74	0.00	-1914.7	0.00	1914.70	4743.22	2371.61	9175.92	4594.78	5.18	-1.183	0.000	0.422
45.00	-24.32	-30.38	0.00	-1822.4	0.00	1822.47	4688.82	2344.41	8926.23	4469.75	5.95	-1.270	0.000	0.413
48.00	-23.04	-30.01	0.00	-1731.3	0.00	1731.33	3840.55	1920.27	7332.01	3671.45	6.78	-1.357	0.000	0.478
50.00	-22.55	-29.80	0.00	-1671.3	0.00	1671.30	3813.07	1906.53	7201.22	3605.96	7.36	-1.415	0.000	0.470
55.00	-21.42	-29.22	0.00	-1522.2	0.00	1522.29	3743.08	1871.54	6876.85	3443.54	8.93	-1.570	0.000	0.448
60.00	-20.31	-28.64	0.00	-1376.2	0.00	1376.20	3671.28	1835.64	6556.42	3283.08	10.66	-1.723	0.000	0.425
65.00	-19.22	-28.05	0.00	-1233.0	0.00	1233.03	3597.66	1798.83	6240.20	3124.74	12.54	-1.873	0.000	0.400
70.00	-18.17	-27.47	0.00	-1092.7	0.00	1092.76	3522.21	1761.10	5928.48	2968.65	14.58	-2.019	0.000	0.374
75.00	-17.14	-26.89	0.00	-955.41	0.00	955.41	3444.94	1722.47	5621.53	2814.94	16.77	-2.159	0.000	0.345
80.00	-16.15	-26.32	0.00	-820.93	0.00	820.93	3365.85	1682.92	5319.64	2663.77	19.11	-2.293	0.000	0.313
85.00	-15.20	-25.74	0.00	-689.33	0.00	689.33	3284.94	1642.47	5023.09	2515.28	21.58	-2.418	0.000	0.279
85.25	-15.13	-25.72	0.00	-682.90	0.00	682.90	3280.84	1640.42	5008.41	2507.93	21.71	-2.424	0.000	0.277
90.00	-11.85	-21.52	0.00	-560.71	0.00	560.71	1897.08	948.54	2862.22	1433.24	24.17	-2.532	0.000	0.398
95.00	-11.15	-20.97	0.00	-453.12	0.00	453.12	1858.98	929.49	2709.28	1356.65	26.88	-2.635	0.000	0.341
100.00	-10.46	-20.42	0.00	-348.29	0.00	348.29	1819.06	909.53	2557.69	1280.75	29.71	-2.762	0.000	0.278
105.00	-9.81	-19.88	0.00	-246.17	0.00	246.17	1777.32	888.66	2407.73	1205.66	32.67	-2.868	0.000	0.210
107.00	-7.81	-14.14	0.00	-206.40	0.00	206.40	1760.11	880.05	2348.27	1175.88	33.88	-2.904	0.000	0.180
110.00	-7.46	-13.83	0.00	-163.99	0.00	163.99	1733.75	866.88	2259.69	1131.52	35.72	-2.950	0.000	0.149
115.00	-6.91	-13.31	0.00	-94.86	0.00	94.86	1688.37	844.18	2113.84	1058.49	38.84	-3.007	0.000	0.094
117.00	-3.92	-7.05	0.00	-68.23	0.00	68.23	1669.70	834.85	2056.18	1029.62	40.10	-3.024	0.000	0.069
120.00	-3.64	-6.75	0.00	-47.10	0.00	47.10	1641.16	820.58	1970.46	986.70	42.01	-3.042	0.000	0.050
125.00	-3.19	-6.26	0.00	-13.35	0.00	13.35	1592.13	796.06	1829.84	916.28	45.20	-3.059	0.000	0.017
127.00	-0.18	-0.27	0.00	-0.82	0.00	0.82	1572.01	786.00	1774.43	888.53	46.48	-3.061	0.000	0.001
130.00	0.00	-0.26	0.00	0.00	0.00	0.00	1541.28	770.64	1692.26	847.39	48.41	-3.061	0.000	0.000

Wind Loading - Shaft

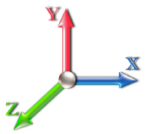
Structure:	CT13615-A-SBA	**Code:**	TIA-222-G	1/26/2022	
Site Name:	Madison 7, CT	**Exposure:**	C		
Height:	130.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 19	

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 19

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	0.85	5.168	5.68	0.00	1.200	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	5.168	5.68	0.00	1.200	1.242	5.00	25.312	30.37	172.7	451.3	2065.6
10.00		1.00	0.85	5.168	5.68	0.00	1.200	1.331	5.00	24.862	29.83	169.6	474.1	2053.3
15.00		1.00	0.85	5.168	5.68	0.00	1.200	1.386	5.00	24.383	29.26	166.3	483.4	2027.4
20.00		1.00	0.90	5.483	6.03	0.00	1.200	1.427	5.00	23.892	28.67	172.9	486.8	1995.6
25.00		1.00	0.95	5.747	6.32	0.00	1.200	1.459	5.00	23.394	28.07	177.5	486.7	1960.4
30.00		1.00	0.98	5.972	6.57	0.00	1.200	1.486	5.00	22.892	27.47	180.5	484.4	1922.9
35.00		1.00	1.01	6.169	6.79	0.00	1.200	1.509	5.00	22.387	26.86	182.3	480.4	1883.8
40.00		1.00	1.04	6.345	6.98	0.00	1.200	1.529	5.00	21.879	26.25	183.2	475.2	1843.4
42.00	Bot - Section 2	1.00	1.05	6.410	7.05	0.00	1.200	1.537	2.00	8.607	10.33	72.8	189.1	726.6
45.00		1.00	1.07	6.504	7.15	0.00	1.200	1.547	3.00	12.949	15.54	111.2	285.7	1775.2
48.00	Top - Section 1	1.00	1.08	6.593	7.25	0.00	1.200	1.557	3.00	12.765	15.32	111.1	283.3	1749.2
50.00		1.00	1.09	6.650	7.32	0.00	1.200	1.564	2.00	8.407	10.09	73.8	187.7	637.0
55.00		1.00	1.12	6.785	7.46	0.00	1.200	1.579	5.00	20.664	24.80	185.1	461.6	1563.8
60.00		1.00	1.14	6.910	7.60	0.00	1.200	1.592	5.00	20.150	24.18	183.8	453.4	1525.4
65.00		1.00	1.16	7.028	7.73	0.00	1.200	1.605	5.00	19.637	23.56	182.2	444.7	1486.6
70.00		1.00	1.17	7.138	7.85	0.00	1.200	1.617	5.00	19.122	22.95	180.2	435.6	1447.3
75.00		1.00	1.19	7.243	7.97	0.00	1.200	1.628	5.00	18.607	22.33	177.9	426.1	1407.7
80.00		1.00	1.21	7.342	8.08	0.00	1.200	1.639	5.00	18.091	21.71	175.3	416.2	1367.7
85.00		1.00	1.22	7.436	8.18	0.00	1.200	1.649	5.00	17.574	21.09	172.5	406.0	1327.4
85.25	Bot - Section 3	1.00	1.22	7.441	8.18	0.00	1.200	1.649	0.25	0.865	1.04	8.5	20.3	65.6
90.00	Top - Section 2	1.00	1.24	7.526	8.28	0.00	1.200	1.658	4.75	16.393	19.67	162.9	380.7	1800.2
95.00		1.00	1.25	7.612	8.37	0.00	1.200	1.667	5.00	16.752	20.10	168.3	390.1	974.2
100.00		1.00	1.27	7.695	8.46	0.00	1.200	1.676	5.00	16.234	19.48	164.9	379.1	943.2
105.00		1.00	1.28	7.774	8.55	0.00	1.200	1.684	5.00	15.717	18.86	161.3	368.0	912.0
107.00	Appurtenance(s)	1.00	1.28	7.805	8.59	0.00	1.200	1.687	2.00	6.141	7.37	63.3	145.4	357.4
110.00		1.00	1.29	7.851	8.64	0.00	1.200	1.692	3.00	9.056	10.87	93.9	214.0	525.9
115.00		1.00	1.30	7.925	8.72	0.00	1.200	1.699	5.00	14.680	17.62	153.6	345.1	848.9
117.00	Appurtenance(s)	1.00	1.31	7.954	8.75	0.00	1.200	1.702	2.00	5.726	6.87	60.1	136.2	332.1
120.00		1.00	1.32	7.996	8.80	0.00	1.200	1.707	3.00	8.434	10.12	89.0	200.0	487.9
125.00		1.00	1.33	8.065	8.87	0.00	1.200	1.714	5.00	13.643	16.37	145.2	321.5	785.1
127.00	Appurtenance(s)	1.00	1.33	8.092	8.90	0.00	1.200	1.716	2.00	5.311	6.37	56.7	126.7	306.5
130.00		1.00	1.34	8.132	8.95	0.00	1.200	1.720	3.00	7.811	9.37	83.8	185.7	449.4
								Totals:	**130.00**			**4,442.4**		**39,554.7**

Discrete Appurtenance Forces

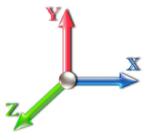
Structure:	CT13615-A-SBA	**Code:**	TIA-222-G	1/26/2022	
Site Name:	Madison 7, CT	**Exposure:**	C		
Height:	130.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 20	

Tower Engineering Solutions

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

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 19

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	127.00	Platform w/ Hand Rail	1	8.092	8.901	1.00	1.00	59.46	3385.18	0.000	0.000	529.29	0.00	0.00
2	127.00	Powerwave	3	8.092	8.901	0.56	0.75	18.42	536.18	0.000	0.000	163.97	0.00	0.00
3	127.00	Powerwave	6	8.092	8.901	0.50	0.75	3.69	199.83	0.000	0.000	32.82	0.00	0.00
4	127.00	Raycap DC6-48-60-18-8F	3	8.092	8.901	0.50	0.75	3.25	247.39	0.000	0.000	28.96	0.00	0.00
5	127.00	HRK14	1	8.092	8.901	1.00	1.00	15.94	1018.09	0.000	0.000	141.93	0.00	0.00
6	127.00	4449 B5/B12	3	8.092	8.901	0.50	0.75	3.78	389.93	0.000	0.000	33.66	0.00	0.00
7	127.00	Quintel QS46512-2	3	8.092	8.901	0.72	0.75	14.15	624.07	0.000	0.000	125.98	0.00	0.00
8	127.00	Ericsson RRUS 32	3	8.092	8.901	0.50	0.75	5.21	449.43	0.000	0.000	46.37	0.00	0.00
9	127.00	800-10964	3	8.092	8.901	0.54	0.75	18.27	979.77	0.000	0.000	162.60	0.00	0.00
10	127.00	DBC0061F1V51-2	6	8.092	8.901	0.50	0.75	2.14	257.63	0.000	0.000	19.07	0.00	0.00
11	127.00	RRUS 8843 B2 B66A	3	8.092	8.901	0.50	0.75	3.21	361.41	0.000	0.000	28.56	0.00	0.00
12	117.00	12.5' Low Profile Platform	1	7.954	8.749	1.00	1.00	31.58	3122.39	0.000	0.000	276.26	0.00	0.00
13	117.00	Ericsson Radio 4449	3	7.954	8.749	0.50	0.75	3.28	464.86	0.000	0.000	28.66	0.00	0.00
14	117.00	Ericsson KRY 112 144/1	3	7.954	8.749	0.50	0.75	1.32	61.85	0.000	0.000	11.52	0.00	0.00
15	117.00	Sitepro HRK12-U	1	7.954	8.749	1.00	1.00	21.92	718.09	0.000	0.000	191.81	0.00	0.00
16	117.00	Sitepro PRK-1245	1	7.954	8.749	1.00	1.00	19.20	96.86	0.000	0.000	168.01	0.00	0.00
17	117.00	APXVAARR24_43-U-NA2	3	7.954	8.749	0.52	0.75	34.79	1716.75	0.000	0.000	304.41	0.00	0.00
18	117.00	Ericsson Air 21 B2A/B4P	3	7.954	8.749	0.65	0.75	13.85	821.28	0.000	0.000	121.19	0.00	0.00
19	117.00	Ericsson Air 21 B4A/B2P	3	7.954	8.749	0.65	0.75	13.85	819.48	0.000	0.000	121.19	0.00	0.00
20	107.00	Samsung MT6407-77A	3	7.805	8.586	0.56	0.80	9.42	630.13	0.000	0.000	80.84	0.00	0.00
21	107.00	Low Profile Platform	1	7.805	8.586	1.00	1.00	45.25	2152.35	0.000	0.000	388.49	0.00	0.00
22	107.00	Commscope	3	7.805	8.586	0.66	0.80	18.58	727.17	0.000	0.000	159.51	0.00	0.00
23	107.00	JMA Wireless	6	7.805	8.586	0.70	0.80	46.76	1883.50	0.000	0.000	401.49	0.00	0.00
24	107.00	Samsung RF4439d-25A	3	7.805	8.586	0.54	0.80	3.11	322.77	0.000	0.000	26.73	0.00	0.00
25	107.00	Samsung RF4440d-13A	3	7.805	8.586	0.54	0.80	3.11	322.77	0.000	0.000	26.73	0.00	0.00
26	107.00	Raycap	1	7.805	8.586	0.54	0.80	2.60	126.48	0.000	0.000	22.34	0.00	0.00
27	90.00	MC-PK8-DSH	1	7.526	8.279	1.00	1.00	82.47	3303.18	0.000	0.000	682.76	0.00	0.00
28	90.00	RDIDC-9181-OF-48	1	7.526	8.279	0.50	0.75	1.28	64.18	0.000	0.000	10.61	0.00	0.00
29	90.00	TA08025-B605	3	7.526	8.279	0.50	0.75	3.76	381.30	0.000	0.000	31.11	0.00	0.00
30	90.00	TA08025-B604	3	7.526	8.279	0.57	0.75	4.26	338.07	0.000	0.000	35.29	0.00	0.00
31	90.00	MX08FRO665-21	3	7.526	8.279	0.55	0.75	23.11	859.76	0.000	0.000	191.35	0.00	0.00
							Totals:		**27,382.12**			**4,593.51**		

Total Applied Force Summary

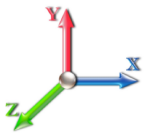
Structure:	CT13615-A-SBA		**Code:**	TIA-222-G	1/26/2022
Site Name:	Madison 7, CT		**Exposure:**	C	
Height:	130.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 21

Tower Engineering Solutions

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

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 19

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		172.67	2413.00	0.00	0.00
10.00		169.60	2402.51	0.00	0.00
15.00		166.34	2377.89	0.00	0.00
20.00		172.94	2347.03	0.00	0.00
25.00		177.48	2312.56	0.00	0.00
30.00		180.46	2275.69	0.00	0.00
35.00		182.30	2237.10	0.00	0.00
40.00		183.24	2197.20	0.00	0.00
42.00		72.83	868.16	0.00	0.00
45.00		111.18	1987.73	0.00	0.00
48.00		111.10	1961.92	0.00	0.00
50.00		73.80	778.85	0.00	0.00
55.00		185.07	1918.77	0.00	0.00
60.00		183.81	1880.78	0.00	0.00
65.00		182.16	1842.27	0.00	0.00
70.00		180.18	1803.29	0.00	0.00
75.00		177.89	1763.92	0.00	0.00
80.00		175.32	1724.19	0.00	0.00
85.00		172.50	1684.13	0.00	0.00
85.25		8.50	83.39	0.00	0.00
90.00	(11) attachments	1113.99	7085.86	0.00	0.00
95.00		168.33	1304.23	0.00	0.00
100.00		164.90	1273.21	0.00	0.00
105.00		161.29	1241.98	0.00	0.00
107.00	(20) attachments	1169.39	6654.54	0.00	0.00
110.00		93.85	678.55	0.00	0.00
115.00		153.56	1103.32	0.00	0.00
117.00	(18) attachments	1283.17	8255.39	0.00	0.00
120.00		89.02	590.96	0.00	0.00
125.00		145.24	956.99	0.00	0.00
127.00	(35) attachments	1369.95	8824.17	0.00	0.00
130.00		83.85	449.40	0.00	0.00
	Totals:	**9,035.88**	**75,279.00**	**0.00**	**0.00**

Linear Appurtenance Segment Forces (Factored)

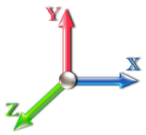
Structure:	CT13615-A-SBA	**Code:**	TIA-222-G	1/26/2022	
Site Name:	Madison 7, CT	**Exposure:**	C		
Height:	130.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 22	

Tower Engineering Solutions

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

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 19

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	1.411" Fiber	Yes	5.00	0.000	1.41	1.62	0.00	0.024	0.000	5.168	0.00	17.36
10.00	1.411" Fiber	Yes	5.00	0.000	1.41	1.70	0.00	0.025	0.000	5.168	0.00	19.25
15.00	1.411" Fiber	Yes	5.00	0.000	1.41	1.74	0.00	0.025	0.000	5.168	0.00	20.47
20.00	1.411" Fiber	Yes	5.00	0.000	1.41	1.78	0.00	0.026	0.000	5.483	0.00	21.39
25.00	1.411" Fiber	Yes	5.00	0.000	1.41	1.80	0.00	0.026	0.000	5.747	0.00	22.13
30.00	1.411" Fiber	Yes	5.00	0.000	1.41	1.83	0.00	0.027	0.000	5.972	0.00	22.76
35.00	1.411" Fiber	Yes	5.00	0.000	1.41	1.84	0.00	0.028	0.000	6.169	0.00	23.31
40.00	1.411" Fiber	Yes	5.00	0.000	1.41	1.86	0.00	0.029	0.000	6.345	0.00	23.80
42.00	1.411" Fiber	Yes	2.00	0.000	1.41	0.75	0.00	0.029	0.000	6.410	0.00	9.59
45.00	1.411" Fiber	Yes	3.00	0.000	1.41	1.13	0.00	0.029	0.000	6.504	0.00	14.54
48.00	1.411" Fiber	Yes	3.00	0.000	1.41	1.13	0.00	0.030	0.000	6.593	0.00	14.69
50.00	1.411" Fiber	Yes	2.00	0.000	1.41	0.76	0.00	0.030	0.000	6.650	0.00	9.86
55.00	1.411" Fiber	Yes	5.00	0.000	1.41	1.90	0.00	0.030	0.000	6.785	0.00	25.01
60.00	1.411" Fiber	Yes	5.00	0.000	1.41	1.91	0.00	0.031	0.000	6.910	0.00	25.35
65.00	1.411" Fiber	Yes	5.00	0.000	1.41	1.93	0.00	0.032	0.000	7.028	0.00	25.67
70.00	1.411" Fiber	Yes	5.00	0.000	1.41	1.94	0.00	0.033	0.000	7.138	0.00	25.97
75.00	1.411" Fiber	Yes	5.00	0.000	1.41	1.94	0.00	0.034	0.000	7.243	0.00	26.26
80.00	1.411" Fiber	Yes	5.00	0.000	1.41	1.95	0.00	0.035	0.000	7.342	0.00	26.52
85.00	1.411" Fiber	Yes	5.00	0.000	1.41	1.96	0.00	0.036	0.000	7.436	0.00	26.78
85.25	1.411" Fiber	Yes	0.25	0.000	1.41	0.10	0.00	0.037	0.000	7.441	0.00	1.34
90.00	1.411" Fiber	Yes	4.75	0.000	1.41	1.87	0.00	0.038	0.000	7.526	0.00	25.67
										Totals:	**0.0**	**427.7**

Calculated Forces

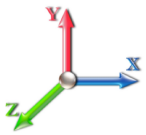
Structure:	CT13615-A-SBA	**Code:**	TIA-222-G	1/26/2022	
Site Name:	Madison 7, CT	**Exposure:**	C		
Height:	130.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 23	

Tower Engineering Solutions

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

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 19

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	-75.28	-9.06	0.00	-838.91	0.00	838.91	5435.95	2717.97	12860.7	6439.91	0.00	0.000	0.000	0.144
5.00	-72.86	-8.93	0.00	-793.62	0.00	793.62	5360.22	2680.11	12406.3	6212.37	0.02	-0.035	0.000	0.141
10.00	-70.45	-8.80	0.00	-748.97	0.00	748.97	5282.67	2641.34	11955.5	5986.66	0.07	-0.070	0.000	0.138
15.00	-68.07	-8.67	0.00	-704.96	0.00	704.96	5203.30	2601.65	11508.7	5762.93	0.17	-0.105	0.000	0.135
20.00	-65.72	-8.54	0.00	-661.60	0.00	661.60	5122.11	2561.06	11066.1	5541.30	0.30	-0.140	0.000	0.132
25.00	-63.40	-8.39	0.00	-618.92	0.00	618.92	5039.10	2519.55	10628.0	5321.92	0.46	-0.176	0.000	0.129
30.00	-61.12	-8.24	0.00	-576.96	0.00	576.96	4954.26	2477.13	10194.7	5104.94	0.67	-0.212	0.000	0.125
35.00	-58.88	-8.09	0.00	-535.75	0.00	535.75	4867.60	2433.80	9766.46	4890.49	0.91	-0.248	0.000	0.122
40.00	-56.68	-7.92	0.00	-495.31	0.00	495.31	4779.12	2389.56	9343.53	4678.71	1.19	-0.284	0.000	0.118
42.00	-55.81	-7.86	0.00	-479.48	0.00	479.48	4743.22	2371.61	9175.92	4594.78	1.31	-0.298	0.000	0.116
45.00	-53.82	-7.76	0.00	-455.90	0.00	455.90	4688.82	2344.41	8926.23	4469.75	1.50	-0.320	0.000	0.113
48.00	-51.85	-7.65	0.00	-432.63	0.00	432.63	3840.55	1920.27	7332.01	3671.45	1.71	-0.341	0.000	0.131
50.00	-51.07	-7.60	0.00	-417.32	0.00	417.32	3813.07	1906.53	7201.22	3605.96	1.86	-0.356	0.000	0.129
55.00	-49.15	-7.43	0.00	-379.34	0.00	379.34	3743.08	1871.54	6876.85	3443.54	2.25	-0.395	0.000	0.123
60.00	-47.26	-7.27	0.00	-342.18	0.00	342.18	3671.28	1835.64	6556.42	3283.08	2.69	-0.433	0.000	0.117
65.00	-45.42	-7.10	0.00	-305.85	0.00	305.85	3597.66	1798.83	6240.20	3124.74	3.16	-0.470	0.000	0.111
70.00	-43.61	-6.93	0.00	-270.36	0.00	270.36	3522.21	1761.10	5928.48	2968.65	3.67	-0.506	0.000	0.103
75.00	-41.85	-6.76	0.00	-235.71	0.00	235.71	3444.94	1722.47	5621.53	2814.94	4.22	-0.541	0.000	0.096
80.00	-40.12	-6.59	0.00	-201.91	0.00	201.91	3365.85	1682.92	5319.64	2663.77	4.81	-0.574	0.000	0.088
85.00	-38.44	-6.41	0.00	-168.95	0.00	168.95	3284.94	1642.47	5023.09	2515.28	5.42	-0.604	0.000	0.079
85.25	-38.35	-6.41	0.00	-167.35	0.00	167.35	3280.84	1640.42	5008.41	2507.93	5.45	-0.606	0.000	0.078
90.00	-31.28	-5.24	0.00	-136.90	0.00	136.90	1897.08	948.54	2862.22	1433.24	6.07	-0.633	0.000	0.112
95.00	-29.97	-5.07	0.00	-110.72	0.00	110.72	1858.98	929.49	2709.28	1356.65	6.75	-0.657	0.000	0.098
100.00	-28.70	-4.90	0.00	-85.39	0.00	85.39	1819.06	909.53	2557.69	1280.75	7.45	-0.689	0.000	0.082
105.00	-27.46	-4.73	0.00	-60.88	0.00	60.88	1777.32	888.66	2407.73	1205.66	8.19	-0.715	0.000	0.066
107.00	-20.82	-3.48	0.00	-51.41	0.00	51.41	1760.11	880.05	2348.27	1175.88	8.49	-0.724	0.000	0.056
110.00	-20.14	-3.39	0.00	-40.96	0.00	40.96	1733.75	866.88	2259.69	1131.52	8.95	-0.735	0.000	0.048
115.00	-19.04	-3.22	0.00	-24.03	0.00	24.03	1688.37	844.18	2113.84	1058.49	9.73	-0.750	0.000	0.034
117.00	-10.80	-1.83	0.00	-17.59	0.00	17.59	1669.70	834.85	2056.18	1029.62	10.04	-0.754	0.000	0.024
120.00	-10.21	-1.73	0.00	-12.10	0.00	12.10	1641.16	820.58	1970.46	986.70	10.52	-0.758	0.000	0.018
125.00	-9.25	-1.58	0.00	-3.42	0.00	3.42	1592.13	796.06	1829.84	916.28	11.32	-0.763	0.000	0.010
127.00	-0.45	-0.09	0.00	-0.27	0.00	0.27	1572.01	786.00	1774.43	888.53	11.64	-0.763	0.000	0.001
130.00	0.00	-0.08	0.00	0.00	0.00	0.00	1541.28	770.64	1692.26	847.39	12.12	-0.763	0.000	0.000

Seismic Segment Forces (Factored)

Structure:	CT13615-A-SBA	**Code:**	TIA-222-G	1/26/2022	
Site Name:	Madison 7, CT	**Exposure:**	C		
Height:	130.00 (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:	1.2D + 1.0E							**Iterations**	18
Gust Response Factor	1.10				**Sds**	0.18		**Ss**	0.17
Dead Load Factor	1.20	**Seismic Load Factor**	1.00		**Sd1**	0.10		**S1**	0.06
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.48		**SA**	0.05	**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		1345.2	0.00	0.04	0.02	21.03	
10.00		1315.9	0.01	0.06	0.03	30.02	
15.00		1286.6	0.03	0.07	0.04	33.78	
20.00		1257.3	0.04	0.07	0.04	35.24	
25.00		1228.0	0.07	0.07	0.04	35.81	
30.00		1198.7	0.10	0.07	0.04	36.12	
35.00		1169.5	0.14	0.07	0.03	36.27	
40.00		1140.2	0.18	0.07	0.03	36.04	
42.00	Bot - Section 2	447.88	0.20	0.06	0.02	14.18	
45.00		1241.2	0.23	0.06	0.02	39.02	
48.00	Top - Section 1	1221.6	0.26	0.05	0.02	37.52	
50.00		374.41	0.28	0.05	0.01	11.18	
55.00		918.44	0.34	0.04	0.01	24.06	
60.00		893.33	0.40	0.02	0.01	17.75	
65.00		868.22	0.47	-0.01	0.01	9.46	
70.00		843.11	0.55	-0.03	0.01	0.13	
75.00		818.00	0.63	-0.06	0.02	-8.58	
80.00		792.89	0.72	-0.09	0.03	-14.84	
85.00		767.78	0.81	-0.11	0.06	-17.29	
85.25	Bot - Section 3	37.73	0.81	-0.11	0.06	-0.85	
90.00	Top - Section 2	3542.0	0.91	-0.12	0.09	-72.97	
95.00		486.81	1.01	-0.11	0.14	-6.00	
100.00		470.07	1.12	-0.06	0.20	1.21	
105.00		453.33	1.23	0.04	0.28	10.95	
107.00	Appurtenance(s)	2421.4	1.28	0.09	0.32	83.95	
110.00		259.95	1.35	0.20	0.39	13.64	
115.00		419.85	1.48	0.45	0.52	36.80	
117.00	Appurtenance(s)	3595.7	1.53	0.58	0.58	372.74	
120.00		239.86	1.61	0.81	0.68	31.13	
125.00		386.37	1.75	1.31	0.89	69.14	
127.00	Appurtenance(s)	3632.0	1.80	1.56	0.98	728.73	
130.00		219.77	1.89	1.98	1.14	51.72	
	Totals:	**35,293.8**				**1,697.1**	**Total Wind:** **35,146.1**

Calculated Forces

Structure:	CT13615-A-SBA	**Code:**	TIA-222-G	1/26/2022	
Site Name:	Madison 7, CT	**Exposure:**	C		
Height:	130.00 (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:	1.2D + 1.0E							**Iterations**	18
Gust Response Factor	1.10			**Sds**	0.18			**Ss**	0.17
Dead Load Factor	1.20	**Seismic Load Factor**	1.00	**Sd1**	0.10			**S1**	0.06
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.48	**SA**	0.05	**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	-50.27	-1.82	0.00	-190.29	0.00	190.29	5435.95	2717.97	12860.7	6439.91		0.00	0.00	0.039
5.00	-48.33	-1.81	0.00	-181.18	0.00	181.18	5360.22	2680.11	12406.3	6212.37		0.00	-0.01	0.038
10.00	-46.42	-1.78	0.00	-172.15	0.00	172.15	5282.67	2641.34	11955.5	5986.66		0.02	-0.02	0.038
15.00	-44.54	-1.75	0.00	-163.24	0.00	163.24	5203.30	2601.65	11508.7	5762.93		0.04	-0.02	0.037
20.00	-42.70	-1.72	0.00	-154.47	0.00	154.47	5122.11	2561.06	11066.1	5541.30		0.07	-0.03	0.036
25.00	-40.90	-1.69	0.00	-145.85	0.00	145.85	5039.10	2519.55	10628.0	5321.92		0.11	-0.04	0.036
30.00	-39.13	-1.66	0.00	-137.38	0.00	137.38	4954.26	2477.13	10194.7	5104.94		0.15	-0.05	0.035
35.00	-37.40	-1.63	0.00	-129.07	0.00	129.07	4867.60	2433.80	9766.46	4890.49		0.21	-0.06	0.034
40.00	-35.70	-1.60	0.00	-120.92	0.00	120.92	4779.12	2389.56	9343.53	4678.71		0.27	-0.07	0.033
42.00	-35.03	-1.58	0.00	-117.73	0.00	117.73	4743.22	2371.61	9175.92	4594.78		0.30	-0.07	0.033
45.00	-33.34	-1.55	0.00	-112.98	0.00	112.98	4688.82	2344.41	8926.23	4469.75		0.35	-0.08	0.032
48.00	-31.68	-1.51	0.00	-108.35	0.00	108.35	3840.55	1920.27	7332.01	3671.45		0.40	-0.08	0.038
50.00	-31.09	-1.50	0.00	-105.33	0.00	105.33	3813.07	1906.53	7201.22	3605.96		0.43	-0.08	0.037
55.00	-29.66	-1.48	0.00	-97.83	0.00	97.83	3743.08	1871.54	6876.85	3443.54		0.53	-0.09	0.036
60.00	-28.26	-1.46	0.00	-90.44	0.00	90.44	3671.28	1835.64	6556.42	3283.08		0.63	-0.10	0.035
65.00	-26.89	-1.46	0.00	-83.13	0.00	83.13	3597.66	1798.83	6240.20	3124.74		0.74	-0.11	0.034
70.00	-25.54	-1.46	0.00	-75.85	0.00	75.85	3522.21	1761.10	5928.48	2968.65		0.87	-0.12	0.033
75.00	-24.23	-1.46	0.00	-68.56	0.00	68.56	3444.94	1722.47	5621.53	2814.94		1.01	-0.13	0.031
80.00	-22.95	-1.46	0.00	-61.27	0.00	61.27	3365.85	1682.92	5319.64	2663.77		1.15	-0.14	0.030
85.00	-21.70	-1.46	0.00	-53.97	0.00	53.97	3284.94	1642.47	5023.09	2515.28		1.31	-0.15	0.028
85.25	-21.64	-1.46	0.00	-53.61	0.00	53.61	3280.84	1640.42	5008.41	2507.93		1.31	-0.15	0.028
90.00	-17.07	-1.45	0.00	-46.67	0.00	46.67	1897.08	948.54	2862.22	1433.24		1.47	-0.16	0.042
95.00	-16.16	-1.45	0.00	-39.43	0.00	39.43	1858.98	929.49	2709.28	1356.65		1.65	-0.17	0.038
100.00	-15.26	-1.45	0.00	-32.18	0.00	32.18	1819.06	909.53	2557.69	1280.75		1.83	-0.18	0.034
105.00	-14.39	-1.44	0.00	-24.93	0.00	24.93	1777.32	888.66	2407.73	1205.66		2.03	-0.19	0.029
107.00	-11.35	-1.34	0.00	-22.06	0.00	22.06	1760.11	880.05	2348.27	1175.88		2.11	-0.20	0.025
110.00	-10.89	-1.33	0.00	-18.03	0.00	18.03	1733.75	866.88	2259.69	1131.52		2.24	-0.20	0.022
115.00	-10.13	-1.29	0.00	-11.39	0.00	11.39	1688.37	844.18	2113.84	1058.49		2.45	-0.21	0.017
117.00	-5.71	-0.90	0.00	-8.81	0.00	8.81	1669.70	834.85	2056.18	1029.62		2.54	-0.21	0.012
120.00	-5.32	-0.87	0.00	-6.10	0.00	6.10	1641.16	820.58	1970.46	986.70		2.67	-0.21	0.009
125.00	-4.69	-0.80	0.00	-1.75	0.00	1.75	1592.13	796.06	1829.84	916.28		2.90	-0.21	0.005
127.00	-0.26	-0.05	0.00	-0.16	0.00	0.16	1572.01	786.00	1774.43	888.53		2.99	-0.21	0.000
130.00	0.00	-0.05	0.00	0.00	0.00	0.00	1541.28	770.64	1692.26	847.39		3.12	-0.21	0.000

Seismic Segment Forces (Factored)

Structure:	CT13615-A-SBA	**Code:**	TIA-222-G	1/26/2022	
Site Name:	Madison 7, CT	**Exposure:**	C		
Height:	130.00 (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:	0.9D + 1.0E							**Iterations**	18
Gust Response Factor	1.10				**Sds**	0.18		**Ss**	0.17
Dead Load Factor	0.90	**Seismic Load Factor**	1.00		**Sd1**	0.10		**S1**	0.06
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.48		**SA**	0.05	**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		1345.2	0.00	0.04	0.02	21.03	
10.00		1315.9	0.01	0.06	0.03	30.02	
15.00		1286.6	0.03	0.07	0.04	33.78	
20.00		1257.3	0.04	0.07	0.04	35.24	
25.00		1228.0	0.07	0.07	0.04	35.81	
30.00		1198.7	0.10	0.07	0.04	36.12	
35.00		1169.5	0.14	0.07	0.03	36.27	
40.00		1140.2	0.18	0.07	0.03	36.04	
42.00	Bot - Section 2	447.88	0.20	0.06	0.02	14.18	
45.00		1241.2	0.23	0.06	0.02	39.02	
48.00	Top - Section 1	1221.6	0.26	0.05	0.02	37.52	
50.00		374.41	0.28	0.05	0.01	11.18	
55.00		918.44	0.34	0.04	0.01	24.06	
60.00		893.33	0.40	0.02	0.01	17.75	
65.00		868.22	0.47	-0.01	0.01	9.46	
70.00		843.11	0.55	-0.03	0.01	0.13	
75.00		818.00	0.63	-0.06	0.02	-8.58	
80.00		792.89	0.72	-0.09	0.03	-14.84	
85.00		767.78	0.81	-0.11	0.06	-17.29	
85.25	Bot - Section 3	37.73	0.81	-0.11	0.06	-0.85	
90.00	Top - Section 2	3542.0	0.91	-0.12	0.09	-72.97	
95.00		486.81	1.01	-0.11	0.14	-6.00	
100.00		470.07	1.12	-0.06	0.20	1.21	
105.00		453.33	1.23	0.04	0.28	10.95	
107.00	Appurtenance(s)	2421.4	1.28	0.09	0.32	83.95	
110.00		259.95	1.35	0.20	0.39	13.64	
115.00		419.85	1.48	0.45	0.52	36.80	
117.00	Appurtenance(s)	3595.7	1.53	0.58	0.58	372.74	
120.00		239.86	1.61	0.81	0.68	31.13	
125.00		386.37	1.75	1.31	0.89	69.14	
127.00	Appurtenance(s)	3632.0	1.80	1.56	0.98	728.73	
130.00		219.77	1.89	1.98	1.14	51.72	
	Totals:	**35,293.8**				**1,697.1**	**Total Wind:** **35,146.1**

Calculated Forces

Structure:	CT13615-A-SBA	**Code:**	TIA-222-G	1/26/2022	
Site Name:	Madison 7, CT	**Exposure:**	C		
Height:	130.00 (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:	0.9D + 1.0E							**Iterations**	18
Gust Response Factor	1.10			**Sds**	0.18			**Ss**	0.17
Dead Load Factor	0.90	**Seismic Load Factor**	1.00	**Sd1**	0.10			**S1**	0.06
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.48	**SA**	0.05	**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	-37.70	-1.82	0.00	-189.00	0.00	189.00	5435.95	2717.97	12860.7	6439.91		0.00	0.00	0.036
5.00	-36.25	-1.80	0.00	-179.90	0.00	179.90	5360.22	2680.11	12406.3	6212.37		0.00	-0.01	0.036
10.00	-34.81	-1.78	0.00	-170.88	0.00	170.88	5282.67	2641.34	11955.5	5986.66		0.02	-0.02	0.035
15.00	-33.41	-1.75	0.00	-161.99	0.00	161.99	5203.30	2601.65	11508.7	5762.93		0.04	-0.02	0.035
20.00	-32.03	-1.72	0.00	-153.24	0.00	153.24	5122.11	2561.06	11066.1	5541.30		0.07	-0.03	0.034
25.00	-30.67	-1.69	0.00	-144.65	0.00	144.65	5039.10	2519.55	10628.0	5321.92		0.11	-0.04	0.033
30.00	-29.35	-1.65	0.00	-136.23	0.00	136.23	4954.26	2477.13	10194.7	5104.94		0.15	-0.05	0.033
35.00	-28.05	-1.62	0.00	-127.97	0.00	127.97	4867.60	2433.80	9766.46	4890.49		0.21	-0.06	0.032
40.00	-26.77	-1.58	0.00	-119.87	0.00	119.87	4779.12	2389.56	9343.53	4678.71		0.27	-0.07	0.031
42.00	-26.27	-1.57	0.00	-116.70	0.00	116.70	4743.22	2371.61	9175.92	4594.78		0.30	-0.07	0.031
45.00	-25.00	-1.53	0.00	-111.99	0.00	111.99	4688.82	2344.41	8926.23	4469.75		0.35	-0.07	0.030
48.00	-23.76	-1.50	0.00	-107.39	0.00	107.39	3840.55	1920.27	7332.01	3671.45		0.39	-0.08	0.035
50.00	-23.32	-1.49	0.00	-104.39	0.00	104.39	3813.07	1906.53	7201.22	3605.96		0.43	-0.08	0.035
55.00	-22.25	-1.47	0.00	-96.96	0.00	96.96	3743.08	1871.54	6876.85	3443.54		0.52	-0.09	0.034
60.00	-21.19	-1.45	0.00	-89.63	0.00	89.63	3671.28	1835.64	6556.42	3283.08		0.63	-0.10	0.033
65.00	-20.16	-1.44	0.00	-82.38	0.00	82.38	3597.66	1798.83	6240.20	3124.74		0.74	-0.11	0.032
70.00	-19.16	-1.44	0.00	-75.18	0.00	75.18	3522.21	1761.10	5928.48	2968.65		0.86	-0.12	0.031
75.00	-18.17	-1.44	0.00	-67.96	0.00	67.96	3444.94	1722.47	5621.53	2814.94		1.00	-0.13	0.029
80.00	-17.21	-1.44	0.00	-60.75	0.00	60.75	3365.85	1682.92	5319.64	2663.77		1.14	-0.14	0.028
85.00	-16.27	-1.44	0.00	-53.53	0.00	53.53	3284.94	1642.47	5023.09	2515.28		1.30	-0.15	0.026
85.25	-16.23	-1.44	0.00	-53.17	0.00	53.17	3280.84	1640.42	5008.41	2507.93		1.30	-0.15	0.026
90.00	-12.80	-1.44	0.00	-46.31	0.00	46.31	1897.08	948.54	2862.22	1433.24		1.46	-0.16	0.039
95.00	-12.12	-1.44	0.00	-39.12	0.00	39.12	1858.98	929.49	2709.28	1356.65		1.63	-0.17	0.035
100.00	-11.45	-1.44	0.00	-31.94	0.00	31.94	1819.06	909.53	2557.69	1280.75		1.82	-0.18	0.031
105.00	-10.79	-1.42	0.00	-24.76	0.00	24.76	1777.32	888.66	2407.73	1205.66		2.01	-0.19	0.027
107.00	-8.51	-1.33	0.00	-21.91	0.00	21.91	1760.11	880.05	2348.27	1175.88		2.09	-0.19	0.023
110.00	-8.16	-1.32	0.00	-17.91	0.00	17.91	1733.75	866.88	2259.69	1131.52		2.22	-0.20	0.021
115.00	-7.60	-1.28	0.00	-11.32	0.00	11.32	1688.37	844.18	2113.84	1058.49		2.43	-0.21	0.015
117.00	-4.28	-0.90	0.00	-8.75	0.00	8.75	1669.70	834.85	2056.18	1029.62		2.52	-0.21	0.011
120.00	-3.99	-0.86	0.00	-6.07	0.00	6.07	1641.16	820.58	1970.46	986.70		2.65	-0.21	0.009
125.00	-3.52	-0.79	0.00	-1.74	0.00	1.74	1592.13	796.06	1829.84	916.28		2.87	-0.21	0.004
127.00	-0.20	-0.05	0.00	-0.16	0.00	0.16	1572.01	786.00	1774.43	888.53		2.96	-0.21	0.000
130.00	0.00	-0.05	0.00	0.00	0.00	0.00	1541.28	770.64	1692.26	847.39		3.10	-0.21	0.000

Wind Loading - Shaft

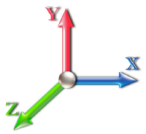
Structure:	CT13615-A-SBA	**Code:**	TIA-222-G	1/26/2022	
Site Name:	Madison 7, CT	**Exposure:**	C		
Height:	130.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 28	

Tower Engineering Solutions

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 19

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	0.85	7.442	8.19	271.49	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	7.442	8.19	265.69	0.650	0.000	5.00	24.277	15.78	129.2	0.0	1345.3
10.00		1.00	0.85	7.442	8.19	259.88	0.650	0.000	5.00	23.753	15.44	126.4	0.0	1316.0
15.00		1.00	0.85	7.442	8.19	254.08	0.650	0.000	5.00	23.228	15.10	123.6	0.0	1286.7
20.00		1.00	0.90	7.896	8.69	255.74	0.650	0.000	5.00	22.703	14.76	128.2	0.0	1257.4
25.00		1.00	0.95	8.276	9.10	255.70	0.650	0.000	5.00	22.179	14.42	131.2	0.0	1228.1
30.00		1.00	0.98	8.600	9.46	254.41	0.650	0.000	5.00	21.654	14.08	133.1	0.0	1198.8
35.00		1.00	1.01	8.883	9.77	252.23	0.650	0.000	5.00	21.129	13.73	134.2	0.0	1169.5
40.00		1.00	1.04	9.137	10.05	249.37	0.650	0.000	5.00	20.605	13.39	134.6	0.0	1140.2
42.00	Bot - Section 2	1.00	1.05	9.231	10.15	248.07	0.650	0.000	2.00	8.095	5.26	53.4	0.0	447.9
45.00		1.00	1.07	9.366	10.30	245.97	0.650	0.000	3.00	12.175	7.91	81.5	0.0	1241.2
48.00	Top - Section 1	1.00	1.08	9.494	10.44	243.71	0.650	0.000	3.00	11.987	7.79	81.4	0.0	1221.6
50.00		1.00	1.09	9.576	10.53	246.11	0.650	0.000	2.00	7.886	5.13	54.0	0.0	374.4
55.00		1.00	1.12	9.770	10.75	241.94	0.650	0.000	5.00	19.348	12.58	135.2	0.0	918.4
60.00		1.00	1.14	9.951	10.95	237.46	0.650	0.000	5.00	18.823	12.24	133.9	0.0	893.3
65.00		1.00	1.16	10.120	11.13	232.70	0.650	0.000	5.00	18.299	11.89	132.4	0.0	868.2
70.00		1.00	1.17	10.279	11.31	227.70	0.650	0.000	5.00	17.774	11.55	130.6	0.0	843.1
75.00		1.00	1.19	10.430	11.47	222.49	0.650	0.000	5.00	17.250	11.21	128.6	0.0	818.0
80.00		1.00	1.21	10.572	11.63	217.09	0.650	0.000	5.00	16.725	10.87	126.4	0.0	792.9
85.00		1.00	1.22	10.708	11.78	211.51	0.650	0.000	5.00	16.200	10.53	124.0	0.0	767.8
85.25	Bot - Section 3	1.00	1.22	10.715	11.79	211.23	0.650	0.000	0.25	0.796	0.52	6.1	0.0	37.7
90.00	Top - Section 2	1.00	1.24	10.838	11.92	205.78	0.650	0.000	4.75	15.080	9.80	116.9	0.0	1182.9
95.00		1.00	1.25	10.962	12.06	202.76	0.650	0.000	5.00	15.363	9.99	120.4	0.0	486.8
100.00		1.00	1.27	11.081	12.19	196.77	0.650	0.000	5.00	14.838	9.64	117.6	0.0	470.1
105.00		1.00	1.28	11.195	12.31	190.66	0.650	0.000	5.00	14.313	9.30	114.6	0.0	453.3
107.00	Appurtenance(s)	1.00	1.28	11.240	12.36	188.19	0.650	0.000	2.00	5.578	3.63	44.8	0.0	176.6
110.00		1.00	1.29	11.305	12.44	184.45	0.650	0.000	3.00	8.210	5.34	66.4	0.0	259.9
115.00		1.00	1.30	11.412	12.55	178.12	0.650	0.000	5.00	13.264	8.62	108.2	0.0	419.9
117.00	Appurtenance(s)	1.00	1.31	11.453	12.60	175.57	0.650	0.000	2.00	5.159	3.35	42.2	0.0	163.3
120.00		1.00	1.32	11.514	12.67	171.70	0.650	0.000	3.00	7.581	4.93	62.4	0.0	239.9
125.00		1.00	1.33	11.614	12.78	165.19	0.650	0.000	5.00	12.215	7.94	101.4	0.0	386.4
127.00	Appurtenance(s)	1.00	1.33	11.653	12.82	162.56	0.650	0.000	2.00	4.739	3.08	39.5	0.0	149.9
130.00		1.00	1.34	11.710	12.88	158.59	0.650	0.000	3.00	6.951	4.52	58.2	0.0	219.8
								Totals:	**130.00**			**3,220.8**		**23,775.2**

Discrete Appurtenance Forces

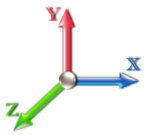
Structure:	CT13615-A-SBA	**Code:**	TIA-222-G	1/26/2022	
Site Name:	Madison 7, CT	**Exposure:**	C		
Height:	130.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 29	

Tower Engineering Solutions

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 19

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	127.00	Platform w/ Hand Rail	1	11.653	12.818	1.00	1.00	32.00	1600.00	0.000	0.000	410.17	0.00	0.00
2	127.00	Powerwave	3	11.653	12.818	0.56	0.75	13.77	159.00	0.000	0.000	176.50	0.00	0.00
3	127.00	Powerwave	6	11.653	12.818	0.50	0.75	1.93	96.00	0.000	0.000	24.73	0.00	0.00
4	127.00	Raycap DC6-48-60-18-8F	3	11.653	12.818	0.50	0.75	2.22	98.40	0.000	0.000	28.40	0.00	0.00
5	127.00	HRK14	1	11.653	12.818	1.00	1.00	8.13	302.36	0.000	0.000	104.21	0.00	0.00
6	127.00	4449 B5/B12	3	11.653	12.818	0.50	0.75	2.97	219.00	0.000	0.000	38.07	0.00	0.00
7	127.00	Quintel QS46512-2	3	11.653	12.818	0.72	0.75	11.99	225.00	0.000	0.000	153.66	0.00	0.00
8	127.00	Ericsson RRUS 32	3	11.653	12.818	0.50	0.75	4.13	159.00	0.000	0.000	52.94	0.00	0.00
9	127.00	800-10964	3	11.653	12.818	0.54	0.75	16.20	251.40	0.000	0.000	207.65	0.00	0.00
10	127.00	DBC0061F1V51-2	6	11.653	12.818	0.50	0.75	1.30	156.00	0.000	0.000	16.62	0.00	0.00
11	127.00	RRUS 8843 B2 B66A	3	11.653	12.818	0.50	0.75	2.47	216.00	0.000	0.000	31.69	0.00	0.00
12	117.00	12.5' Low Profile Platform	1	11.453	12.598	1.00	1.00	25.55	1600.00	0.000	0.000	321.89	0.00	0.00
13	117.00	Ericsson Radio 4449	3	11.453	12.598	0.50	0.75	2.49	222.00	0.000	0.000	31.34	0.00	0.00
14	117.00	Ericsson KRY 112 144/1	3	11.453	12.598	0.50	0.75	0.62	33.00	0.000	0.000	7.79	0.00	0.00
15	117.00	Sitepro HRK12-U	1	11.453	12.598	1.00	1.00	9.85	418.00	0.000	0.000	124.09	0.00	0.00
16	117.00	Sitepro PRK-1245	1	11.453	12.598	1.00	1.00	9.50	228.00	0.000	0.000	119.69	0.00	0.00
17	117.00	APXVAARR24_43-U-NA2	3	11.453	12.598	0.52	0.75	31.88	384.00	0.000	0.000	401.61	0.00	0.00
18	117.00	Ericsson Air 21 B2A/B4P	3	11.453	12.598	0.65	0.75	11.78	274.50	0.000	0.000	148.46	0.00	0.00
19	117.00	Ericsson Air 21 B4A/B2P	3	11.453	12.598	0.65	0.75	11.78	273.00	0.000	0.000	148.46	0.00	0.00
20	107.00	Samsung MT6407-77A	3	11.240	12.364	0.56	0.80	7.88	238.20	0.000	0.000	97.42	0.00	0.00
21	107.00	Low Profile Platform	1	11.240	12.364	1.00	1.00	25.00	1200.00	0.000	0.000	309.09	0.00	0.00
22	107.00	Commscope	3	11.240	12.364	0.66	0.80	16.10	121.80	0.000	0.000	199.00	0.00	0.00
23	107.00	JMA Wireless	6	11.240	12.364	0.70	0.80	41.22	276.00	0.000	0.000	509.60	0.00	0.00
24	107.00	Samsung RF4439d-25A	3	11.240	12.364	0.54	0.80	2.35	188.40	0.000	0.000	29.03	0.00	0.00
25	107.00	Samsung RF4440d-13A	3	11.240	12.364	0.54	0.80	2.35	188.40	0.000	0.000	29.03	0.00	0.00
26	107.00	Raycap	1	11.240	12.364	0.54	0.80	2.18	32.00	0.000	0.000	26.91	0.00	0.00
27	90.00	MC-PK8-DSH	1	10.838	11.921	1.00	1.00	37.59	1727.00	0.000	0.000	448.13	0.00	0.00
28	90.00	RDIDC-9181-OF-48	1	10.838	11.921	0.50	0.75	1.01	21.90	0.000	0.000	12.04	0.00	0.00
29	90.00	TA08025-B605	3	10.838	11.921	0.50	0.75	2.95	225.00	0.000	0.000	35.22	0.00	0.00
30	90.00	TA08025-B604	3	10.838	11.921	0.57	0.75	3.35	191.70	0.000	0.000	39.96	0.00	0.00
31	90.00	MX08FRO665-21	3	10.838	11.921	0.55	0.75	20.80	193.50	0.000	0.000	247.92	0.00	0.00
							Totals:		**11,518.56**			**4,531.30**		

Total Applied Force Summary

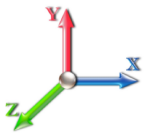
Structure:	CT13615-A-SBA		**Code:**	TIA-222-G	1/26/2022
Site Name:	Madison 7, CT		**Exposure:**	C	
Height:	130.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 30

Tower Engineering Solutions

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 19

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		129.18	1620.52	0.00	0.00
10.00		126.39	1591.22	0.00	0.00
15.00		123.59	1561.93	0.00	0.00
20.00		128.18	1532.63	0.00	0.00
25.00		131.24	1503.34	0.00	0.00
30.00		133.15	1474.04	0.00	0.00
35.00		134.21	1444.75	0.00	0.00
40.00		134.61	1415.45	0.00	0.00
42.00		53.43	557.98	0.00	0.00
45.00		81.54	1406.36	0.00	0.00
48.00		81.37	1386.78	0.00	0.00
50.00		54.00	484.51	0.00	0.00
55.00		135.16	1193.69	0.00	0.00
60.00		133.93	1168.58	0.00	0.00
65.00		132.41	1143.47	0.00	0.00
70.00		130.63	1118.36	0.00	0.00
75.00		128.63	1093.25	0.00	0.00
80.00		126.43	1068.14	0.00	0.00
85.00		124.03	1043.03	0.00	0.00
85.25		6.10	51.49	0.00	0.00
90.00	(11) attachments	900.12	3803.50	0.00	0.00
95.00		120.41	761.81	0.00	0.00
100.00		117.56	745.07	0.00	0.00
105.00		114.57	728.33	0.00	0.00
107.00	(20) attachments	1244.89	2531.45	0.00	0.00
110.00		66.37	387.15	0.00	0.00
115.00		108.23	631.85	0.00	0.00
117.00	(18) attachments	1345.57	3680.55	0.00	0.00
120.00		62.41	325.78	0.00	0.00
125.00		101.43	529.57	0.00	0.00
127.00	(35) attachments	1284.13	3689.30	0.00	0.00
130.00		58.20	219.77	0.00	0.00
	Totals:	**7,752.07**	**41,893.68**	**0.00**	**0.00**

Linear Appurtenance Segment Forces (Factored)

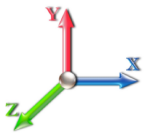
Structure:	CT13615-A-SBA	**Code:**	TIA-222-G	1/26/2022	
Site Name:	Madison 7, CT	**Exposure:**	C		
Height:	130.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 31	

Tower Engineering Solutions

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 19

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.024	0.000	7.442	0.00	0.25
10.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.025	0.000	7.442	0.00	0.25
15.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.025	0.000	7.442	0.00	0.25
20.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.026	0.000	7.896	0.00	0.25
25.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.026	0.000	8.276	0.00	0.25
30.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.027	0.000	8.600	0.00	0.25
35.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.028	0.000	8.883	0.00	0.25
40.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.029	0.000	9.137	0.00	0.25
42.00	1.411" Fiber	Yes	2.00	0.000	1.41	0.23	0.00	0.029	0.000	9.231	0.00	0.10
45.00	1.411" Fiber	Yes	3.00	0.000	1.41	0.35	0.00	0.029	0.000	9.366	0.00	0.15
48.00	1.411" Fiber	Yes	3.00	0.000	1.41	0.35	0.00	0.030	0.000	9.494	0.00	0.15
50.00	1.411" Fiber	Yes	2.00	0.000	1.41	0.23	0.00	0.030	0.000	9.576	0.00	0.10
55.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.030	0.000	9.770	0.00	0.25
60.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.031	0.000	9.951	0.00	0.25
65.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.032	0.000	10.120	0.00	0.25
70.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.033	0.000	10.279	0.00	0.25
75.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.034	0.000	10.430	0.00	0.25
80.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.035	0.000	10.572	0.00	0.25
85.00	1.411" Fiber	Yes	5.00	0.000	1.41	0.59	0.00	0.036	0.000	10.708	0.00	0.25
85.25	1.411" Fiber	Yes	0.25	0.000	1.41	0.03	0.00	0.037	0.000	10.715	0.00	0.01
90.00	1.411" Fiber	Yes	4.75	0.000	1.41	0.56	0.00	0.038	0.000	10.838	0.00	0.24
										Totals:	**0.0**	**4.5**

Calculated Forces

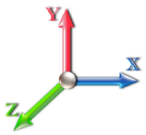
Structure:	CT13615-A-SBA	**Code:**	TIA-222-G	1/26/2022	
Site Name:	Madison 7, CT	**Exposure:**	C		
Height:	130.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 32	

Tower Engineering Solutions

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 19

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	-41.89	-7.76	0.00	-732.60	0.00	732.60	5435.95	2717.97	12860.7	6439.91	0.00	0.000	0.000	0.121
5.00	-40.27	-7.66	0.00	-693.79	0.00	693.79	5360.22	2680.11	12406.3	6212.37	0.02	-0.030	0.000	0.119
10.00	-38.67	-7.55	0.00	-655.51	0.00	655.51	5282.67	2641.34	11955.5	5986.66	0.06	-0.061	0.000	0.117
15.00	-37.11	-7.44	0.00	-617.77	0.00	617.77	5203.30	2601.65	11508.7	5762.93	0.15	-0.092	0.000	0.114
20.00	-35.57	-7.33	0.00	-580.56	0.00	580.56	5122.11	2561.06	11066.1	5541.30	0.26	-0.123	0.000	0.112
25.00	-34.06	-7.21	0.00	-543.91	0.00	543.91	5039.10	2519.55	10628.0	5321.92	0.40	-0.154	0.000	0.109
30.00	-32.59	-7.10	0.00	-507.84	0.00	507.84	4954.26	2477.13	10194.7	5104.94	0.58	-0.186	0.000	0.106
35.00	-31.14	-6.97	0.00	-472.36	0.00	472.36	4867.60	2433.80	9766.46	4890.49	0.79	-0.217	0.000	0.103
40.00	-29.72	-6.84	0.00	-437.50	0.00	437.50	4779.12	2389.56	9343.53	4678.71	1.04	-0.249	0.000	0.100
42.00	-29.16	-6.80	0.00	-423.81	0.00	423.81	4743.22	2371.61	9175.92	4594.78	1.15	-0.262	0.000	0.098
45.00	-27.75	-6.72	0.00	-403.42	0.00	403.42	4688.82	2344.41	8926.23	4469.75	1.32	-0.281	0.000	0.096
48.00	-26.36	-6.64	0.00	-383.27	0.00	383.27	3840.55	1920.27	7332.01	3671.45	1.50	-0.300	0.000	0.111
50.00	-25.88	-6.59	0.00	-370.00	0.00	370.00	3813.07	1906.53	7201.22	3605.96	1.63	-0.313	0.000	0.109
55.00	-24.68	-6.46	0.00	-337.04	0.00	337.04	3743.08	1871.54	6876.85	3443.54	1.98	-0.347	0.000	0.104
60.00	-23.51	-6.34	0.00	-304.73	0.00	304.73	3671.28	1835.64	6556.42	3283.08	2.36	-0.381	0.000	0.099
65.00	-22.36	-6.21	0.00	-273.05	0.00	273.05	3597.66	1798.83	6240.20	3124.74	2.77	-0.415	0.000	0.094
70.00	-21.24	-6.08	0.00	-242.01	0.00	242.01	3522.21	1761.10	5928.48	2968.65	3.23	-0.447	0.000	0.088
75.00	-20.15	-5.95	0.00	-211.61	0.00	211.61	3444.94	1722.47	5621.53	2814.94	3.71	-0.478	0.000	0.081
80.00	-19.08	-5.83	0.00	-181.84	0.00	181.84	3365.85	1682.92	5319.64	2663.77	4.23	-0.507	0.000	0.074
85.00	-18.03	-5.70	0.00	-152.70	0.00	152.70	3284.94	1642.47	5023.09	2515.28	4.78	-0.535	0.000	0.066
85.25	-17.98	-5.70	0.00	-151.28	0.00	151.28	3280.84	1640.42	5008.41	2507.93	4.80	-0.537	0.000	0.066
90.00	-14.18	-4.77	0.00	-124.22	0.00	124.22	1897.08	948.54	2862.22	1433.24	5.35	-0.560	0.000	0.094
95.00	-13.42	-4.64	0.00	-100.39	0.00	100.39	1858.98	929.49	2709.28	1356.65	5.95	-0.583	0.000	0.081
100.00	-12.68	-4.52	0.00	-77.17	0.00	77.17	1819.06	909.53	2557.69	1280.75	6.58	-0.611	0.000	0.067
105.00	-11.95	-4.40	0.00	-54.55	0.00	54.55	1777.32	888.66	2407.73	1205.66	7.23	-0.635	0.000	0.052
107.00	-9.43	-3.13	0.00	-45.74	0.00	45.74	1760.11	880.05	2348.27	1175.88	7.50	-0.643	0.000	0.044
110.00	-9.04	-3.06	0.00	-36.35	0.00	36.35	1733.75	866.88	2259.69	1131.52	7.91	-0.653	0.000	0.037
115.00	-8.41	-2.95	0.00	-21.02	0.00	21.02	1688.37	844.18	2113.84	1058.49	8.60	-0.666	0.000	0.025
117.00	-4.75	-1.56	0.00	-15.12	0.00	15.12	1669.70	834.85	2056.18	1029.62	8.88	-0.669	0.000	0.018
120.00	-4.42	-1.50	0.00	-10.44	0.00	10.44	1641.16	820.58	1970.46	986.70	9.30	-0.673	0.000	0.013
125.00	-3.89	-1.39	0.00	-2.96	0.00	2.96	1592.13	796.06	1829.84	916.28	10.01	-0.677	0.000	0.006
127.00	-0.22	-0.06	0.00	-0.18	0.00	0.18	1572.01	786.00	1774.43	888.53	10.29	-0.678	0.000	0.000
130.00	0.00	-0.06	0.00	0.00	0.00	0.00	1541.28	770.64	1692.26	847.39	10.72	-0.678	0.000	0.000

Final Analysis Summary

Structure:	CT13615-A-SBA	**Code:**	TIA-222-G	1/26/2022	
Site Name:	Madison 7, CT	**Exposure:**	C		
Height:	130.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 33	

Tower Engineering Solutions

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 101 mph Wind	35.2	0.00	50.23	0.00	0.00	3334.06
0.9D + 1.6W 101 mph Wind	35.2	0.00	37.66	0.00	0.00	3313.15
1.2D + 1.0Di + 1.0Wi 50 mph Wind	9.1	0.00	75.28	0.00	0.00	838.91
1.2D + 1.0E	1.8	0.00	50.27	0.00	0.00	190.29
0.9D + 1.0E	1.8	0.00	37.70	0.00	0.00	189.00
1.0D + 1.0W 60 mph Wind	7.8	0.00	41.89	0.00	0.00	732.60

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 101 mph Wind	-50.23	-35.21	0.00	-3334.0	0.00	-3334.0	5435.95	2717.9	12860.7	6439.91	0.00	0.527
0.9D + 1.6W 101 mph Wind	-37.66	-35.19	0.00	-3313.1	0.00	-3313.1	5435.95	2717.9	12860.7	6439.91	0.00	0.522
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-75.28	-9.06	0.00	-838.91	0.00	-838.91	5435.95	2717.9	12860.7	6439.91	0.00	0.144
1.2D + 1.0E	-17.07	-1.45	0.00	-46.67	0.00	-46.67	1897.08	948.54	2862.22	1433.24	90.00	0.042
0.9D + 1.0E	-12.80	-1.44	0.00	-46.31	0.00	-46.31	1897.08	948.54	2862.22	1433.24	90.00	0.039
1.0D + 1.0W 60 mph Wind	-41.89	-7.76	0.00	-732.60	0.00	-732.60	5435.95	2717.9	12860.7	6439.91	0.00	0.121

Base Plate Summary

Structure:	CT13615-A-SB		**Code:**	TIA-222-G	1/26/2022
Site Name:	Madison 7, CT		**Exposure:**	C	
Height:	130.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 34

Tower Engineering Solutions

Reactions	
Original Design	
Moment (kip-ft):	5098.40
Axial (kip):	100.90
Shear (kip):	46.40
Analysis (1.2D + 1.6W)	
Moment (kip-ft):	3334.06
Axial (kip):	50.23
Shear (kip):	35.21

Base Plate	
Yield (ksi):	50.00
Width (in):	67.00
Style:	Round
Polygon Sides:	0.00
Clip Length (in):	0.00
Effective Len (in):	8.93
Moment (kip-in):	251.49
Allow Stress (ksi):	67.50
Applied Stress (ksi):	55.35
Stress Ratio:	0.82

Anchor Bolts	
Bolt Circle:	63.00
Number Bolts:	26.00
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):	100.60
Allowable (kip):	141.00
Ratio:	0.73
Tension	
Force (kip):	94.81
Allowable (kip):	141.00
Ratio:	0.69

Monopole Mat Foundation Design

			Date: 1/24/2022
Customer Name:	Verizon	**TIA Standard:**	TIA-222-G
Site Name:		**Structure Height (Ft.):**	130
Site Number:	CT13615-A-SBA	**Engineer Name:**	K. Azisllari
Engr. Number:	122720	**Engineer Login ID:**	

Foundation Info Obtained from: Drawings/Calculations

Structure Type: Monopole

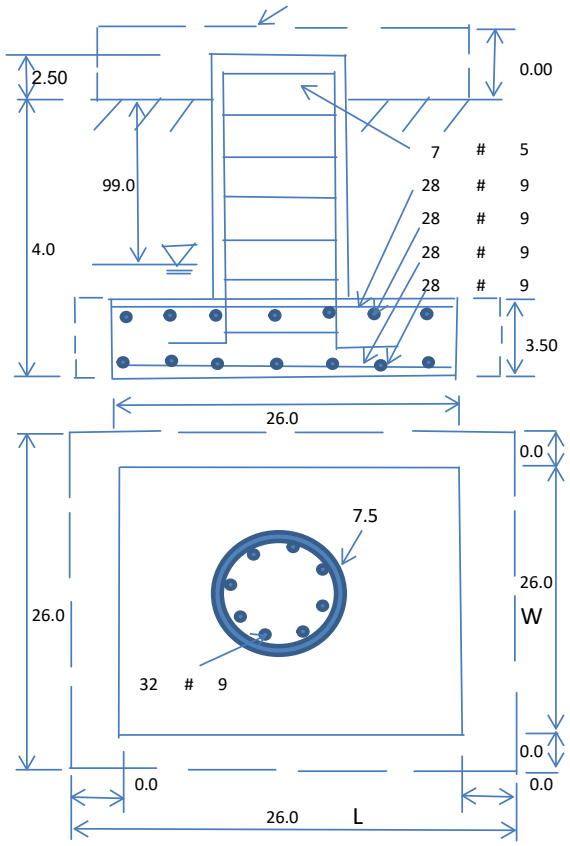
Analysis or Design? Analysis

Base Reactions (Factored):

Axial Load (Kips):	50.2	Shear Force (Kips):	35.2
Uplift Force (Kips):	0.0	Moment (Kips-ft):	3334.1
Allowable overstress %:	5.0%		

Foundation Geometries:

		Mods required -Yes/No ?:	No
Diameter of Pier (ft.):	7.5	Depth of Base BG (ft.):	4.0
Pier Height A. G. (ft.):	2.50	Thickness of Pad (ft):	3.50
Length of Pad (ft.):	26	Width of Pad (ft.):	26
Final Length of pad (ft)	26.0	Final width of pad (ft):	26.0



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 #:	9	Tie / Stirrup Size #:	5	
Qty. of Vertical Rebars:	32	Tie Spacing (in):	12.0	
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):	28	Qty. of Rebar in Pad (W):	28

Rebar at the top of the concrete pad:

Qty. of Rebar in Pad (L):	28	Qty. of Rebar in Pad (W):	28
Apply 1.35 factor for e/w Per G:	1.35		

Soil Design Parameters:

Soil Unit Weight (pcf):	120.0	Soil Buoyant Weight:	37.6	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):	15000	Ultimate Skin Friction:	0	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.):	315.91	Total Dry Soil Weight (Kips):	37.91
Total Buoyant Soil Volume (cu. Ft.):	0.00	Total Buoyant Soil Weight (Kips):	0.00
Total Effective Soil Weight (Kips):	37.91	Weight from the Concrete Block at Top (K):	0.00
Total Dry Concrete Volume (cu. Ft.):	2498.54	Total Dry Concrete Weight (Kips):	374.78
Total Buoyant Concrete Volume (cu. Ft.):	0.00	Total Buoyant Concrete Weight (Kips):	0.00
Total Effective Concrete Weight (Kips):	374.78	Total Vertical Load on Base (Kips):	462.89

Check Soil Capacities:

					Load/ Capacity Ratio	
Calculated Maxium Net Soil Pressure under the base (psf):	2353	<	Allowable Factored Soil Bearing (psf):	11250	0.21	OK!
Allowable Foundation Overturning Resistance (kips-ft.):	5481.1	>	Design Factored Momont (kips-ft):	3563	0.65	OK!
Factor of Safety Against Overturning (O. R. Moment/Design Moment):	1.54	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):	1.00		Tie / Stirrup Area (sq. in./each):	0.31		
Calculated Moment Capacity (Mn,Kips-Ft):	5835.6	>	Design Factored Moment (Mu, Kips-F	3439.7	0.59	OK!
Calculated Shear Capacity (Kips):	826.7	>	Design Factored Shear (Kips):	35.2	0.04	OK!
Calculated Tension Capacity (Tn, Kips):	1728.0	>	Design Factored Tension (Tu Kips):	0.0	0.00	OK!
Calculated Compression Capacity (Pn, Kips):	11191.0	>	Design Factored Axial Load (Pu Kips):	50.2	0.00	OK!
Moment & Axial Strength Combination:	0.59	OK!	Check Tie Spacing (Design/Required):		1	OK!
Pier Reinforcement Ratio:	0.005		Reinforcement Ratio is satisfied per ACI			
(2).Concrete Pad:						
One-Way Design Shear Capacity (L-Direction, Kips):	1137.7	>	One-Way Factored Shear (L-D. Kips):	202.4	0.18	OK!
One-Way Design Shear Capacity (W-Direction, Kips):	1137.7	>	One-Way Factored Shear (W-D., Kips)	202.4	0.18	OK!
One-Way Design Shear Capacity (Corner-Corner. Kips):	1000.5	>	One-Way Factored Shear (C-C, Kips):	201.2	0.20	OK!
Lower Steel Pad Reinforcement Ratio (L-Direct.):	0.0023	OK!	Lower Steel Pad Reinf. Ratio (W-Direc	0.0023		
Lower Steel Pad Moment Capacity (L-Direction. Kips-ft):	4743.4	>	Moment at Bottom (L-Dir. K-Ft):	1197.6	0.25	OK!
Lower Steel Pad Moment Capacity (W-Direction. Kips-ft):	4743.4	>	Moment at Bottom (W-Dir. K-Ft):	1197.6	0.25	OK!
Lower Steel Pad Moment Capacity (Corner-Corner,K-ft):	6672.0	>	Moment at Bottom (C-C Dir. K-Ft):	1693.6	0.25	OK!
Upper Steel Pad Reinforcement Ratio (L-Direct.):	0.0023	OK!	Upper Steel Reinf. Ratio (W-Dir.):	0.0023		
Upper Steel Pad Moment Capacity (L-Direc. Kips-ft):	4743.4	>	Moment at the top (L-Dir K-Ft):	507.6	0.11	OK!
Upper Steel Pad Moment Capacity (W-Direc. Kips-ft):	4743.4	>	Moment at the top (W-Dir K-Ft):	507.6	0.11	OK!
Upper Steel Pad Moment Capacity (Corner-Corner. K-ft):	6672.0	>	Moment at the top (C-C Dir. K-Ft):	476.8	0.07	OK!
(3).Check Punching Shear Capacity due to Moment in the Pier:						
Moment transferred by punching shear:	1333.6	k-ft.	Max. factored shear stress v_{u_CD}:		2.3	Psi
Max. factored shear stress v_{u_AB}:	7.3	Psi	Factored shear Strength ϕv_n:		189.7	Psi
Max. factored shear stress v_u:	7.3	Psi	Check Usage of Punching Shear Capacity:		0.04	OK!

Maser Consulting Connecticut
1055 Washington Boulevard
Stamford, CT 06901
203.324.0800
Peter.albano@colliersengineering.com

Antenna Mount Analysis Report with Hardware Upgrades and PMI Requirements

Mount Analysis

SMART Tool Project #: 10059044
Maser Consulting Connecticut: 21777806A

November 9, 2021

Site Information	*Site ID:*	*468014-VZW / MADISON 4 CT*
	Site Name:	*MADISON 4 CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*17 Cottage Rd* *Madison, Connecticut 06443* *New Haven County*
	Latitude:	*41.275917°*
	Longitude:	*-72.561444°*
Structure Information	*Tower Type:*	*130-Ft Monopole*
	Mount Type:	*12.50-Ft Platform*

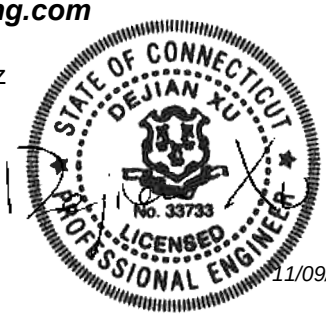
FUZE ID # 15524749

Analysis Results

Platform: **41.1% Pass***
*Results valid after hardware upgrades noted in the PMI Requirements are installed.

******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 may also be Noted on A & E drawings
For additional questions and support, please reach out to:
pmisupport@colliersengineering.com

Report Prepared By: Abigail Enriquez



11/09/2021

Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	*Verizon RFDS Site ID: 2056417, dated July 16, 2021*
Mount Mapping Report	*Structural Components, Site ID: 15524749, dated October 28, 2021*
Construction Drawings	*Nexius, Project #: VZ11509, dated July 29, 2021*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}:	124 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.00 in
	Risk Category:	II
	Exposure Category:	C
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	
Seismic Parameters:	S_S:	0.203g
	S_1:	0.053g
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
108.00	107.00	6	JMA Wireless	MX06FRO660-03	Added
		3	Samsung	MT6407-77A	
		3	Samsung	RF4439d-25A	
		3	Samsung	RF4440d-13A	
		3	Andrew	SBNHH-1D65B	Retained
		1	Raycap	RRFDC-6627-PF-48*	

* Equipment is flush mounted directly to the Monopole. They are not mounted on platform mount and are not included in this mount analysis.

The recent mount mapping reported existing OVP units. 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 unless replacing an existing OVP.

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

BASELINE mount weight per SBA agreement: 1990.38 lbs

Increase in mount weight due to Verizon loading change per SBA agreement: No Change

The weights listed above include 3 sector(s).

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 in accordance with the NSTD-446 Standard, 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

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
Support Rail	*17.3%*	*Pass*
Mount Pipe	*38.0%*	*Pass*
Dual Mount Pipe	*36.9%*	*Pass*
Face Horizontal	*16.7%*	*Pass*
Support Rail Corner	*17.3%*	*Pass*
Corner Plate	*19.1%*	*Pass*
Cross Arm Plate	*36.6%*	*Pass*
Grating Support	*22.7%*	*Pass*
Platform Crossmember	*15.2%*	*Pass*
Standoff Horizontal	*31.0%*	*Pass*
Connection Check	*41.1%*	*Pass*

Structure Rating – *(Controlling Utilization of all Components)*	**41.1%**

***** Results valid after hardware upgrades noted in the PMI Requirements are installed.

Recommendation:

The existing mount will be **SUFFICIENT** for the final loading configuration upon the completion of the recommendations listed in the Special Instructions section of the below referenced PMI document.

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

Attachments:

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

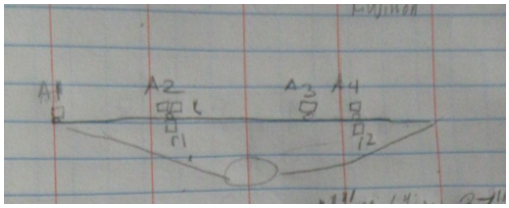

10/2

V4.0 Updated on 3-31-2021

Antenna Mount Mapping Form (PATENT PENDING)

FCC # 1257052

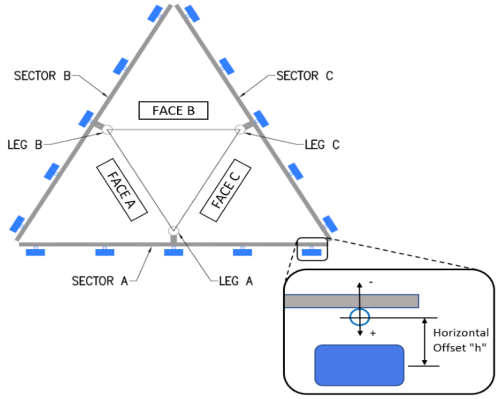
Tower Owner:	SBA Tower	**Mapping Date:**	10/28/2021
Site Name:	MADISON 4 CT	**Tower Type:**	Monopole
Site Number or ID:	15524749	**Tower Height (Ft.):**	130
Mapping Contractor:	Structural Components	**Mount Elevation (Ft.):**	108

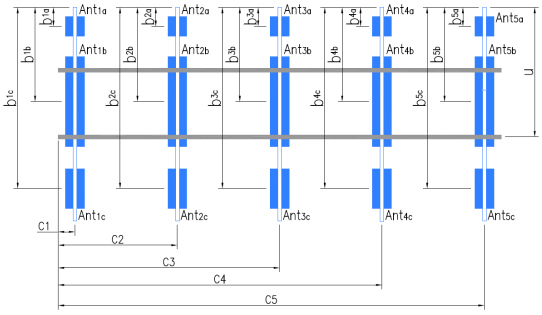


Mount Pipe Configuration and Geometries [Unit = Inches]

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	2.375" x 0.154" x 84"	40.50	6.00	C1	2.375" x 0.154" x 84"	40.50	6.00
A2	2.375" x 0.154" x 84"	40.50	31.00	C2	2.375" x 0.154" x 84"	40.50	31.00
A3	2.375" x 0.154" x 84"	40.50	79.00	C3	2.375" x 0.154" x 84"	40.50	79.00
A4	2.375" x 0.154" x 84"	40.50	127.00	C4	2.375" x 0.154" x 84"	40.50	127.00
A5				C5			
A6				C6			
B1	2.375" x 0.154" x 84"	40.50	6.00	D1			
B2	2.375" x 0.154" x 84"	40.50	31.00	D2			
B3	2.375" x 0.154" x 84"	40.50	79.00	D3			
B4	2.375" x 0.154" x 84"	40.50	127.00	D4			
B5				D5			
B6				D6			

Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :	0.00
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :	72
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :	0
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.):	30
For T-Arms/Platforms on monopoles, report the weld size from the main standoff to the plate bolting into the collar mount.	0.375



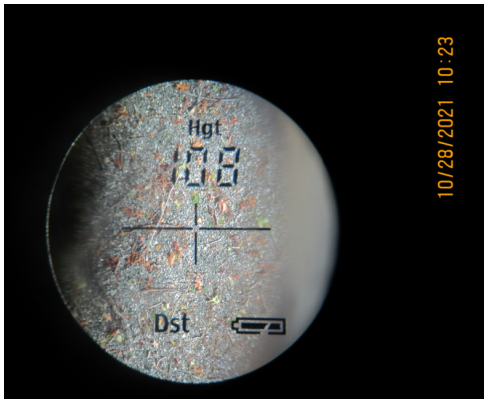


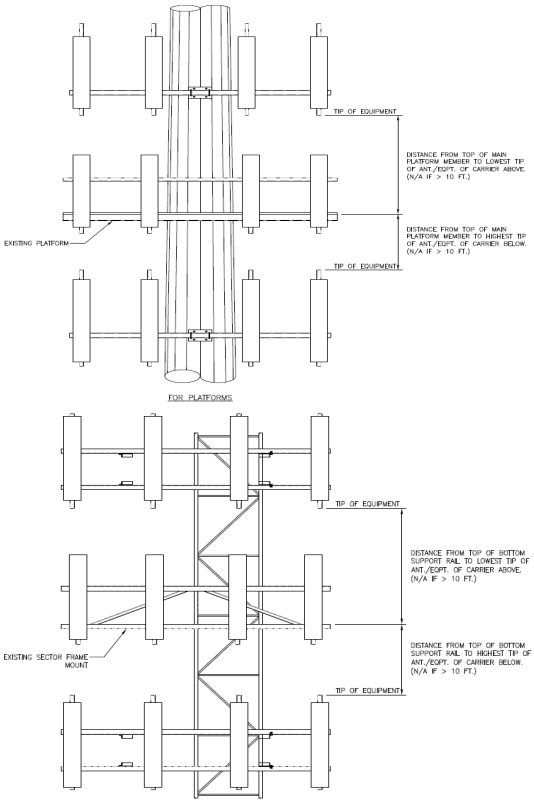
Antenna Layout (Looking Out From Tower)

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}	B4 RRH2x60-4R	11.00	6.00	37.00	jumpers	109.75	19.50	7.00		13
Ant_{1b}										
Ant_{1c}										
Ant_{2a}	B12 RRH 4x30	12.00	7.50	20.50	jumpers	109.833	18.50	-7.50		122
Ant_{2b}	(2) SBNHH-1D65B	12.00	7.50	73.00	jumpers	108.208	38.00	11.00	0.00	13
Ant_{2c}										
Ant_{3a}										
Ant_{3b}	BXA-70063-6CF-EDIN	11.00	5.50	71.00	None	107.25	49.50	9.50	0.00	13
Ant_{3c}										
Ant_{4a}	B25 RRH 4x30	12.00	7.00	21.00	jumpers	109.583	21.50	-7.00		123
Ant_{4b}	SBNHH-1D65B	12.00	7.50	73.00	jumpers	109.833	18.50	9.50	0.00	13
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

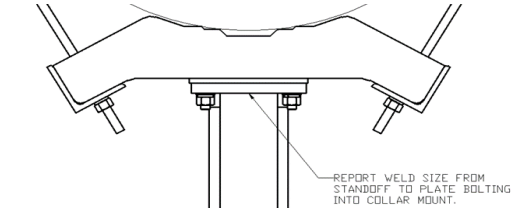
Mount Azimuth (Degree) for Each Sector			Tower Leg Azimuth (Degree) for Each Sector		
Sector A:	25.00	Deg	Leg A:		Deg
Sector B:	145.00	Deg	Leg B:		Deg
Sector C:	265.00	Deg	Leg C:		Deg
Sector D:		Deg	Leg D:		Deg

Climbing Facility Information		
Location:	45.00 Deg	Sector A
Climbing Facility	Corrosion Type:	Good condition.
	Access:	Climbing path was unobstructed.
	Condition:	Loose hardware.





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}	B4 RRH2x60-4R	11.00	6.00	37.00	jumpers	109.75	19.50	7.00		125
Ant_{1b}										
Ant_{1c}										
Ant_{2a}	B12 RRH 4x30	12.00	7.50	20.50	jumpers	109.833	18.50	-7.50		125
Ant_{2b}	(2) SBNHH-1D65B	12.00	7.50	73.00	jumpers	108.208	38.00	11.00	120.00	125
Ant_{2c}										
Ant_{3a}										
Ant_{3b}	BXA-70063-6CF-EDIN	11.00	5.50	71.00	None	107.25	49.50	9.50	120.00	126
Ant_{3c}										
Ant_{4a}	B25 RRH 4x30	12.00	7.00	21.00	jumpers	109.583	21.50	-7.00		126
Ant_{4b}	SBNHH-1D65B	12.00	7.50	73.00	jumpers	109.833	18.50	9.50	120.00	126
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower	RRFDC-6627-PF-48	14.00	9.00	19.00	1-1/2" Hybrid					198
Ant on Tower										
Sector C										
Ant_{1a}	B4 RRH2x60-4R	11.00	6.00	37.00	jumpers	109.75	19.50	7.00		128
Ant_{1b}										
Ant_{1c}										
Ant_{2a}	B12 RRH 4x30	12.00	7.50	20.50	jumpers	109.833	18.50	-7.50		128
Ant_{2b}	(2) SBNHH-1D65B	12.00	7.50	73.00	jumpers	108.208	38.00	11.00	240.00	128
Ant_{2c}										
Ant_{3a}										
Ant_{3b}	BXA-70063-6CF-EDIN	11.00	5.50	71.00	None	107.25	49.50	9.50	240.00	129
Ant_{3c}										
Ant_{4a}	B25 RRH 4x30	12.00	7.00	21.00	jumpers	109.583	21.50	-7.00		129
Ant_{4b}	SBNHH-1D65B	12.00	7.50	73.00	jumpers	109.833	18.50	9.50	240.00	129
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
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	Bottom pipe brackets are overtightened and bent.	102
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.

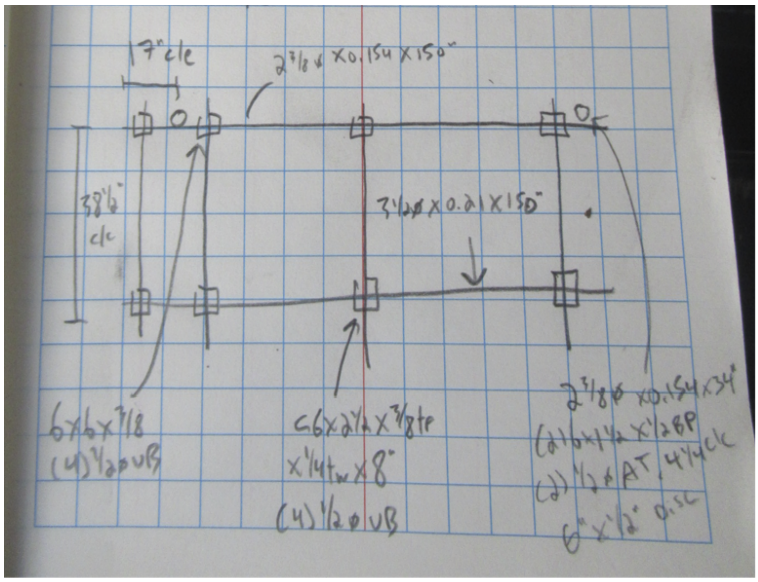
V4.0 Updated on 3-31-2021

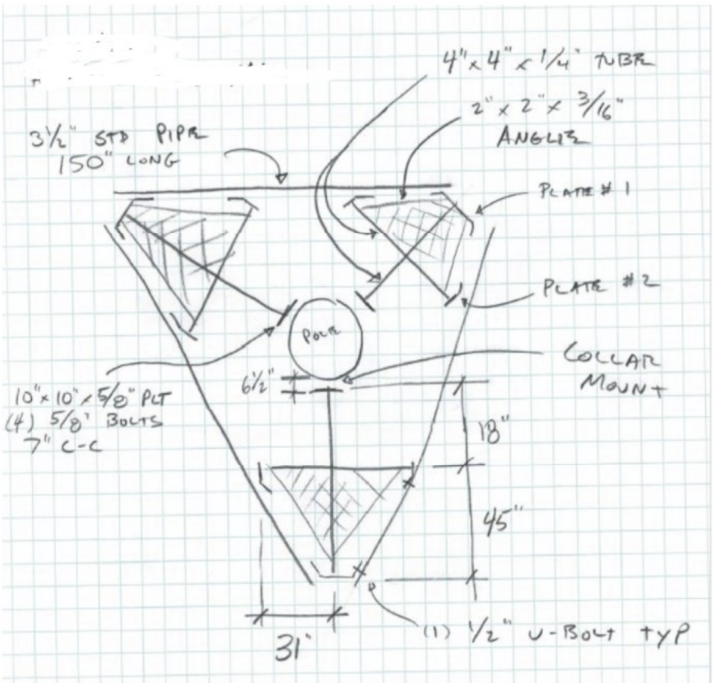
Antenna Mount Mapping Form (PATENT PENDING)

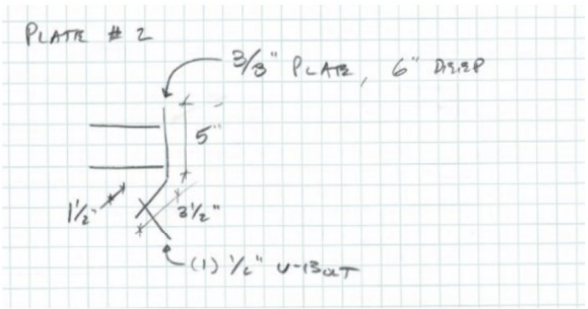
FCC #
1257052

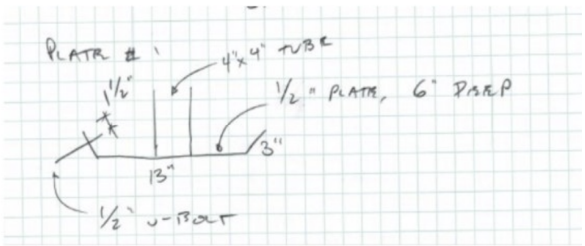
Tower Owner:	SBA Tower	**Mapping Date:**	10/28/2021
Site Name:	MADISON 4 CT	**Tower Type:**	Monopole
Site Number or ID:	15524749	**Tower Height (Ft.):**	130
Mapping Contractor:	Structural Components	**Mount Elevation (Ft.):**	108

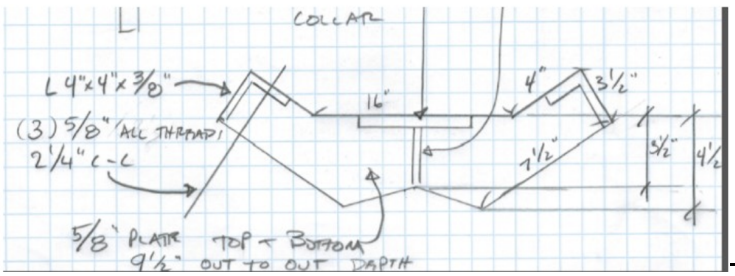
Please Insert Sketches of the Antenna Mount

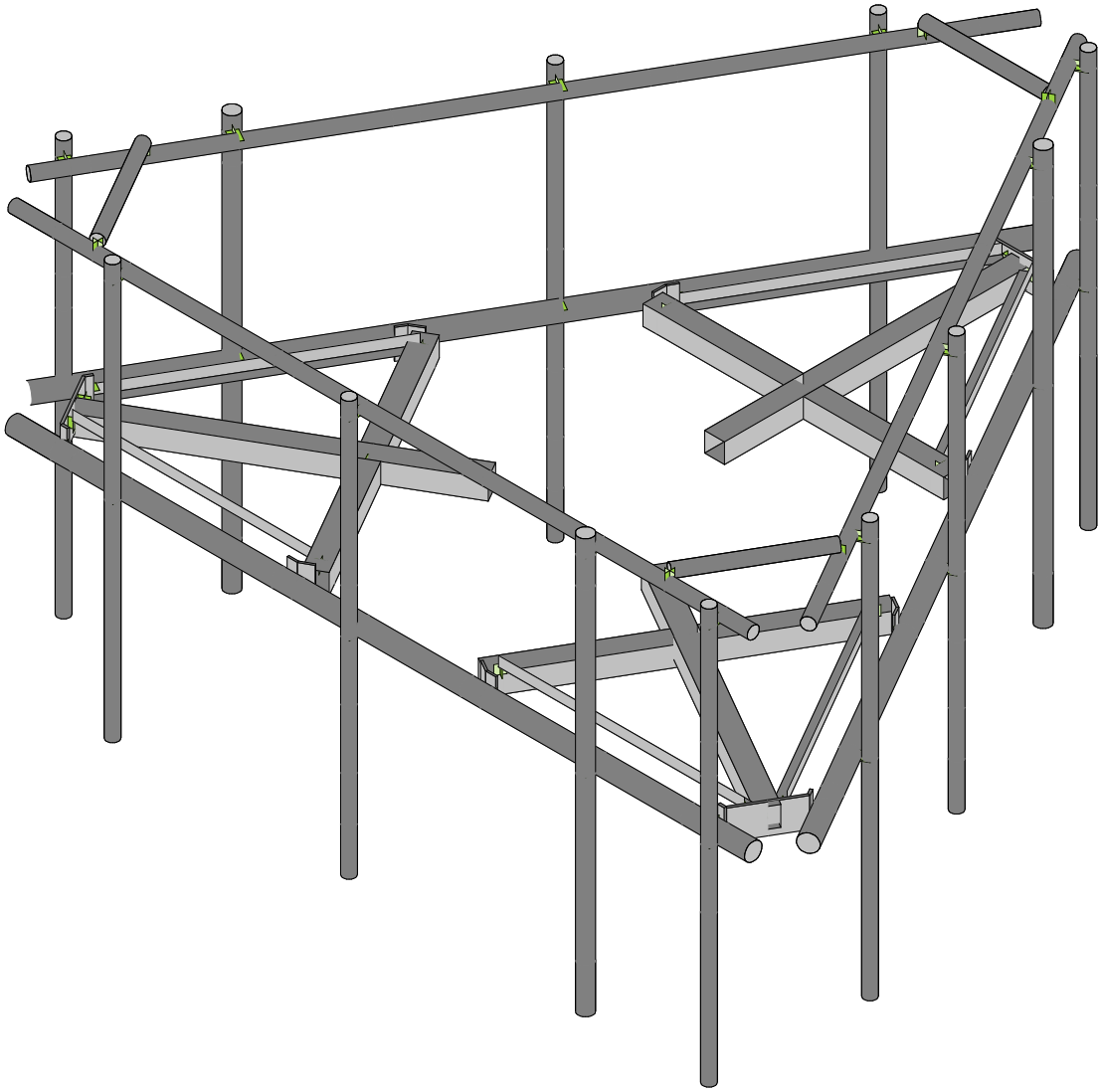




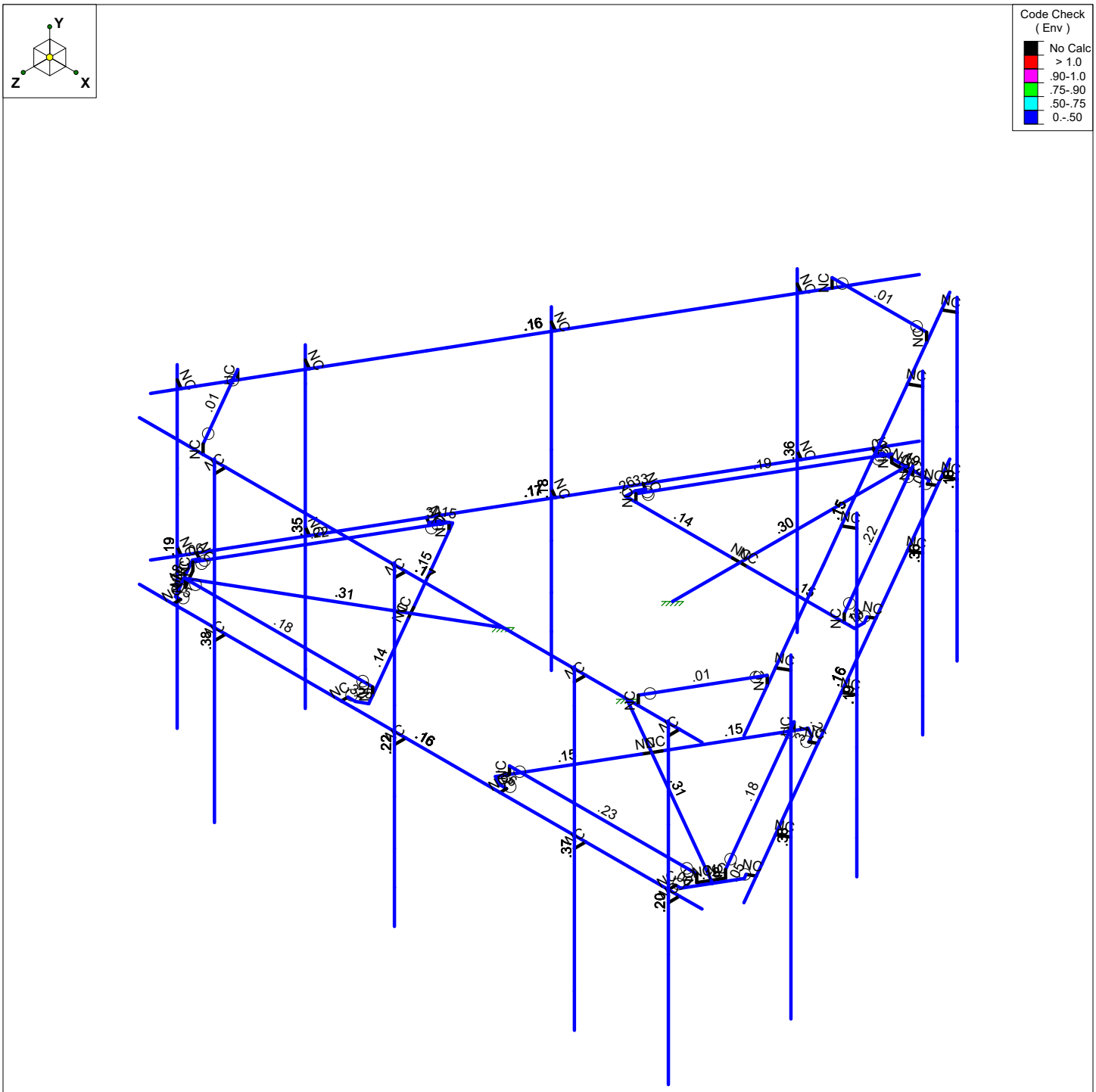






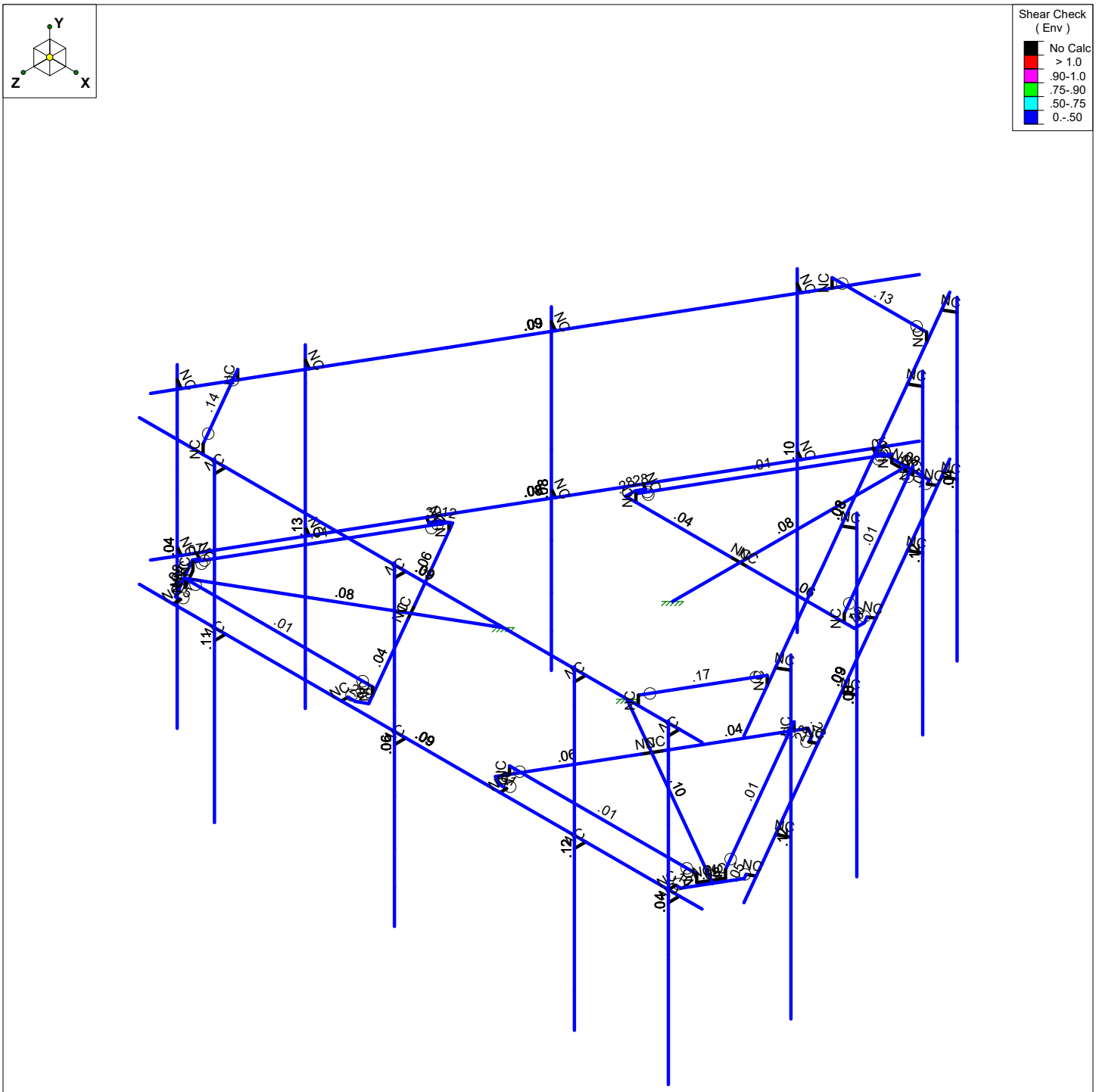


		SK - 1
		Nov 5, 2021 at 4:38 PM
		468014-VZW_MT_LO_H.r3d



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

		SK - 2
		Nov 5, 2021 at 4:38 PM
		468014-VZW_MT_LO_H.r3d



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

		SK - 3
		Nov 5, 2021 at 4:38 PM
		468014-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					90			
2	Antenna Di	None					90			
3	Antenna Wo (0 Deg)	None					90			
4	Antenna Wo (30 Deg)	None					90			
5	Antenna Wo (60 Deg)	None					90			
6	Antenna Wo (90 Deg)	None					90			
7	Antenna Wo (120 Deg)	None					90			
8	Antenna Wo (150 Deg)	None					90			
9	Antenna Wo (180 Deg)	None					90			
10	Antenna Wo (210 Deg)	None					90			
11	Antenna Wo (240 Deg)	None					90			
12	Antenna Wo (270 Deg)	None					90			
13	Antenna Wo (300 Deg)	None					90			
14	Antenna Wo (330 Deg)	None					90			
15	Antenna Wi (0 Deg)	None					90			
16	Antenna Wi (30 Deg)	None					90			
17	Antenna Wi (60 Deg)	None					90			
18	Antenna Wi (90 Deg)	None					90			
19	Antenna Wi (120 Deg)	None					90			
20	Antenna Wi (150 Deg)	None					90			
21	Antenna Wi (180 Deg)	None					90			
22	Antenna Wi (210 Deg)	None					90			
23	Antenna Wi (240 Deg)	None					90			
24	Antenna Wi (270 Deg)	None					90			
25	Antenna Wi (300 Deg)	None					90			
26	Antenna Wi (330 Deg)	None					90			
27	Antenna Wm (0 Deg)	None					90			
28	Antenna Wm (30 Deg)	None					90			
29	Antenna Wm (60 Deg)	None					90			
30	Antenna Wm (90 Deg)	None					90			
31	Antenna Wm (120 Deg)	None					90			
32	Antenna Wm (150 Deg)	None					90			
33	Antenna Wm (180 Deg)	None					90			
34	Antenna Wm (210 Deg)	None					90			
35	Antenna Wm (240 Deg)	None					90			
36	Antenna Wm (270 Deg)	None					90			
37	Antenna Wm (300 Deg)	None					90			
38	Antenna Wm (330 Deg)	None					90			
39	Structure D	None		-1					3	
40	Structure Di	None						57	3	
41	Structure Wo (0 Deg)	None						114		
42	Structure Wo (30 Deg)	None						114		
43	Structure Wo (60 Deg)	None						114		
44	Structure Wo (90 Deg)	None						114		
45	Structure Wo (120 D...	None						114		
46	Structure Wo (150 D...	None						114		
47	Structure Wo (180 D...	None						114		
48	Structure Wo (210 D...	None						114		
49	Structure Wo (240 D...	None						114		
50	Structure Wo (270 D...	None						114		
51	Structure Wo (300 D...	None						114		
52	Structure Wo (330 D...	None						114		
53	Structure Wi (0 Deg)	None						114		
54	Structure Wi (30 Deg)	None						114		
55	Structure Wi (60 Deg)	None						114		
56	Structure Wi (90 Deg)	None						114		

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						114		
58	Structure Wi (150 De...	None						114		
59	Structure Wi (180 De...	None						114		
60	Structure Wi (210 De...	None						114		
61	Structure Wi (240 De...	None						114		
62	Structure Wi (270 De...	None						114		
63	Structure Wi (300 De...	None						114		
64	Structure Wi (330 De...	None						114		
65	Structure Wm (0 Deg)	None						114		
66	Structure Wm (30 De...	None						114		
67	Structure Wm (60 De...	None						114		
68	Structure Wm (90 De...	None						114		
69	Structure Wm (120 D...	None						114		
70	Structure Wm (150 D...	None						114		
71	Structure Wm (180 D...	None						114		
72	Structure Wm (210 D...	None						114		
73	Structure Wm (240 D...	None						114		
74	Structure Wm (270 D...	None						114		
75	Structure Wm (300 D...	None						114		
76	Structure Wm (330 D...	None						114		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	Antenna Ev	None					90			
82	Antenna Eh (0 Deg)	None					60			
83	Antenna Eh (90 Deg)	None					60			
84	Structure Ev	ELY		-.043						
85	Structure Eh (0 Deg)	ELZ	-.108							
86	Structure Eh (90 Deg)	ELX			.108					
87	BLC 39 Transient Are...	None						30		
88	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										

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...
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										
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	1.2D + 1.0Ev + 1.0Eh (0 Deg)	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	1	83		E...	1	E...					
53	1.2D + 1.0Ev + 1.0Eh (30 D...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.866	83	.5	E...	.866	E...	.5				
54	1.2D + 1.0Ev + 1.0Eh (60 D...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.5	83	.866	E...	.5	E...	.866				
55	1.2D + 1.0Ev + 1.0Eh (90 D...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82		83	1	E...		E...	1				
56	1.2D + 1.0Ev + 1.0Eh (120 ...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.5	83	.866	E...	-.5	E...	.866				
57	1.2D + 1.0Ev + 1.0Eh (150 ...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.8...	83	.5	E...	-.8...	E...	.5				
58	1.2D + 1.0Ev + 1.0Eh (180 ...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-1	83		E...	-1	E...					
59	1.2D + 1.0Ev + 1.0Eh (210 ...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.8...	83	-.5	E...	-.8...	E...	-.5				
60	1.2D + 1.0Ev + 1.0Eh (240 ...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.5	83	-.8...	E...	-.5	E...	-.8...				
61	1.2D + 1.0Ev + 1.0Eh (270 ...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82		83	-1	E...		E...	-1				
62	1.2D + 1.0Ev + 1.0Eh (300 ...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.5	83	-.8...	E...	.5	E...	-.8...				
63	1.2D + 1.0Ev + 1.0Eh (330 ...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.866	83	-.5	E...	.866	E...	-.5				
64	0.9D - 1.0Ev + 1.0Eh (0 Deg)	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	1	83		E...	1	E...					
65	0.9D - 1.0Ev + 1.0Eh (30 De...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	.866	83	.5	E...	.866	E...	.5				
66	0.9D - 1.0Ev + 1.0Eh (60 De...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	.5	83	.866	E...	.5	E...	.866				
67	0.9D - 1.0Ev + 1.0Eh (90 De...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82		83	1	E...		E...	1				
68	0.9D - 1.0Ev + 1.0Eh (120 D...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-.5	83	.866	E...	-.5	E...	.866				
69	0.9D - 1.0Ev + 1.0Eh (150 D...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-.8...	83	.5	E...	-.8...	E...	.5				
70	0.9D - 1.0Ev + 1.0Eh (180 D...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-1	83		E...	-1	E...					
71	0.9D - 1.0Ev + 1.0Eh (210 D...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-.8...	83	-.5	E...	-.8...	E...	-.5				
72	0.9D - 1.0Ev + 1.0Eh (240 D...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-.5	83	-.8...	E...	-.5	E...	-.8...				
73	0.9D - 1.0Ev + 1.0Eh (270 D...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82		83	-1	E...		E...	-1				
74	0.9D - 1.0Ev + 1.0Eh (300 D...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	.5	83	-.8...	E...	.5	E...	-.8...				
75	0.9D - 1.0Ev + 1.0Eh (330 D...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	.866	83	-.5	E...	.866	E...	-.5				

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	6.25	0	4.00219	0	
2	N2	-6.25	0	4.00219	0	
3	N3	0	0	-1.591667	0	
4	N5	-2.541667	0	-3.091667	0	
5	N6	2.315104	0.166667	-3.091667	0	
6	N7	-2.315104	0.166667	-3.091667	0	
7	N8	5.75	0	4.00219	0	
8	N9	5.75	0	4.25219	0	
9	N10	-4.333333	0	4.00219	0	
10	N11	-4.333333	0	4.25219	0	
11	N12	3.666667	0	4.00219	0	
12	N13	3.666667	0	4.25219	0	
13	N14	-0.333333	0	4.00219	0	
14	108MCLPERMAPPING	-0.333333	0	4.25219	0	
15	N16	-0.333333	-3.5	4.25219	0	
16	N17	-0.333333	3.5	4.25219	0	
17	N18	-4.333333	-3.5	4.25219	0	
18	N19	-4.333333	3.5	4.25219	0	
19	N20	3.666667	-3.5	4.25219	0	
20	N21	3.666667	3.5	4.25219	0	
21	N22	5.75	-3.5	4.25219	0	
22	N23	5.75	3.5	4.25219	0	
23	N24	0	0	-3.091667	0	
24	N27	0	0	-6.779167	0	
25	CP	0	0	0	0	
26	N29	2.315104	0	-3.091667	0	
27	N30	-2.315104	0	-3.091667	0	
28	N101	2.541667	0	-3.091667	0	
29	N102	-0.166667	0	-3.091667	0	
30	N103A	0.166667	0	-3.091667	0	
31	N104A	-2.541667	0	-3.310417	0	
32	N105	2.541667	0	-3.310417	0	
33	N131	2.458333	0	-3.454754	0	
34	N135	0.571615	0	-6.68219	0	
35	N144	-2.458333	0	-3.454754	0	
36	N148	-0.571615	0	-6.68219	0	
37	N86A	2.584629	0	-3.527671	0	
38	N86B	-2.584629	0	-3.527671	0	
39	N86C	-0.515625	0	-6.779167	0	
40	N87A	0.515625	0	-6.779167	0	
41	N86D	0.715429	0	-6.765221	0	
42	N86E	-0.715429	0	-6.765221	0	
43	N88A	0	0	-6.695833	0	
44	N87C	0.234238	0.166667	-6.695833	0	
45	N86G	0.234238	0	-6.695833	0	
46	N87B	-0.234238	0.166667	-6.695833	0	
47	N88C	-0.234238	0	-6.695833	0	
48	N105A	-1.430762	0	4.00219	0	
49	N109	-5.169162	0	4.00219	0	
50	N132	1.430762	0	4.00219	0	
51	N136	5.169162	0	4.00219	0	
52	N140B	5.75	1	4.25219	0	
53	N141A	5.75	-1	4.25219	0	
54	N142A	3.666667	2.75	4.25219	0	
55	N143	3.666667	-2.75	4.25219	0	
56	N112A	6.25	3.208333	4.00219	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
57	N113A	-6.25	3.208333	4.00219	0	
58	N114A	5.75	3.208333	4.00219	0	
59	N115A	5.75	3.208333	4.25219	0	
60	N116A	-4.333333	3.208333	4.00219	0	
61	N117A	-4.333333	3.208333	4.25219	0	
62	N118A	3.666667	3.208333	4.00219	0	
63	N119A	3.666667	3.208333	4.25219	0	
64	N120A	-0.333333	3.208333	4.00219	0	
65	N121A	-0.333333	3.208333	4.25219	0	
66	N122A	-1.430762	3.208333	4.00219	0	
67	N124B	1.430762	3.208333	4.00219	0	
68	N126A	-4.833333	3.208333	4.00219	0	
69	N127A	4.833333	3.208333	4.00219	0	
70	N128A	4.833333	3.408333	4.00219	0	
71	N130A	-4.833333	3.408333	4.00219	0	
72	N163	2.584629	3.208333	-3.527671	0	
73	N164	0.715429	3.208333	-6.765221	0	
74	N200	-2.584629	3.208333	-3.527671	0	
75	N201	-0.715429	3.208333	-6.765221	0	
76	107ACL	-0.333333	-1	4.25219	0	
77	N207A	-0.333333	.75	4.25219	0	
78	N208	-0.333333	-2.75	4.25219	0	
79	RRH	5.75	1.5	4.25219	0	
80	N211	-0.333333	-2	4.25219	0	
81	N87	-1.378424	0	0.795833	0	
82	N88	-1.406629	0	3.746981	0	
83	N89	-3.835014	0.166667	-0.459106	0	
84	N90	-1.51991	0.166667	3.550772	0	
85	N91	-2.677462	0	1.545833	0	
86	N92	-5.870931	0	3.389583	0	
87	N94	-3.835014	0	-0.459106	0	
88	N95	-1.51991	0	3.550772	0	
89	N96	-3.948295	0	-0.655315	0	
90	N97	-2.594129	0	1.690171	0	
91	N98	-2.760795	0	1.401496	0	
92	N99	-1.596072	0	3.856356	0	
93	N100	-4.137738	0	-0.54594	0	
94	N101A	-4.221072	0	-0.401602	0	
95	N102A	-6.072753	0	2.846062	0	
96	N103	-1.762738	0	3.856356	0	
97	N104	-5.501139	0	3.836128	0	
98	N105B	-4.347367	0	-0.474519	0	
99	N106	-1.762738	0	4.00219	0	
100	N107	-5.613118	0	3.836128	0	
101	N108	-6.128743	0	2.943039	0	
102	N109A	-6.216568	0	2.763031	0	
103	N110	-5.501139	0	4.00219	0	
104	N111	-5.798762	0	3.347917	0	
105	N112	-5.915881	0.166667	3.145061	0	
106	N113	-5.915881	0	3.145061	0	
107	N114	-5.681643	0.166667	3.550772	0	
108	N115	-5.681643	0	3.550772	0	
109	N116	-4.347367	3.208333	-0.474519	0	
110	N117	-6.216568	3.208333	2.763031	0	
111	N120	-1.762738	3.208333	4.00219	0	
112	N121	-5.501139	3.208333	4.00219	0	
113	N124	1.378424	0	0.795833	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
114	N125	3.948295	0	-0.655315	0	
115	N126	1.51991	0.166667	3.550772	0	
116	N127	3.835014	0.166667	-0.459106	0	
117	N128	2.677462	0	1.545833	0	
118	N129	5.870931	0	3.389583	0	
119	N131A	1.51991	0	3.550772	0	
120	N132A	3.835014	0	-0.459106	0	
121	N133	1.406629	0	3.746981	0	
122	N134	2.760795	0	1.401496	0	
123	N135A	2.594129	0	1.690171	0	
124	N136A	4.137738	0	-0.54594	0	
125	N137	1.596072	0	3.856356	0	
126	N138	1.762738	0	3.856356	0	
127	N139	5.501139	0	3.836128	0	
128	N140	4.221072	0	-0.401602	0	
129	N141	6.072753	0	2.846062	0	
130	N142	1.762738	0	4.00219	0	
131	N143A	4.347367	0	-0.474519	0	
132	N144A	6.128743	0	2.943039	0	
133	N145	5.613118	0	3.836128	0	
134	N146	5.501139	0	4.00219	0	
135	N147	6.216568	0	2.763031	0	
136	N148A	5.798762	0	3.347917	0	
137	N149	5.681643	0.166667	3.550772	0	
138	N150	5.681643	0	3.550772	0	
139	N151	5.915881	0.166667	3.145061	0	
140	N152	5.915881	0	3.145061	0	
141	N153	1.762738	3.208333	4.00219	0	
142	N154	5.501139	3.208333	4.00219	0	
143	N157	4.347367	3.208333	-0.474519	0	
144	N158	6.216568	3.208333	2.763031	0	
145	N159A	0.340998	0	-7.413754	0	
146	N160A	6.590998	0	3.411564	0	
147	N161	0.590998	0	-6.980741	0	
148	N162	0.807505	0	-7.105741	0	
149	N163A	5.632665	0	1.751682	0	
150	N164A	5.849171	0	1.626682	0	
151	N165	1.632665	0	-5.176521	0	
152	N166A	1.849171	0	-5.301521	0	
153	N167A	3.632665	0	-1.71242	0	
154	N168	3.849171	0	-1.83742	0	
155	N169	3.849171	-3.5	-1.83742	0	
156	N170	3.849171	3.5	-1.83742	0	
157	N171	5.849171	-3.5	1.626682	0	
158	N172	5.849171	3.5	1.626682	0	
159	N173	1.849171	-3.5	-5.301521	0	
160	N174	1.849171	3.5	-5.301521	0	
161	N175	0.807505	-3.5	-7.105741	0	
162	N176	0.807505	3.5	-7.105741	0	
163	N178	4.181379	0	-0.762019	0	
164	N179	6.050579	0	2.475531	0	
165	N180	2.750617	0	-3.240171	0	
166	N181	0.881417	0	-6.477721	0	
167	N182	0.807505	1	-7.105741	0	
168	N183	0.807505	-1	-7.105741	0	
169	N184	1.849171	2.75	-5.301521	0	
170	N185	1.849171	-2.75	-5.301521	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
171	N186	0.340998	3.208333	-7.413754	0	
172	N187	6.590998	3.208333	3.411564	0	
173	N188	0.590998	3.208333	-6.980741	0	
174	N189	0.807505	3.208333	-7.105741	0	
175	N190	5.632665	3.208333	1.751682	0	
176	N191	5.849171	3.208333	1.626682	0	
177	N192	1.632665	3.208333	-5.176521	0	
178	N193	1.849171	3.208333	-5.301521	0	
179	N194	3.632665	3.208333	-1.71242	0	
180	N195	3.849171	3.208333	-1.83742	0	
181	N196	4.181379	3.208333	-0.762019	0	
182	N198	2.750617	3.208333	-3.240171	0	
183	N200A	5.882665	3.208333	2.184694	0	
184	N201A	1.049331	3.208333	-6.186884	0	
185	N202	1.049331	3.408333	-6.186884	0	
186	N203	5.882665	3.408333	2.184694	0	
187	N204A	3.849171	-1	-1.83742	0	
188	N205	3.849171	.75	-1.83742	0	
189	N206	3.849171	-2.75	-1.83742	0	
190	N207B	0.807504	1.5	-7.105741	0	
191	N208A	3.849171	-2	-1.83742	0	
192	N209	-6.590998	0	3.411564	0	
193	N210	-0.340998	0	-7.413754	0	
194	N211A	-6.340998	0	2.978551	0	
195	N212	-6.557505	0	2.853551	0	
196	N213	-1.299331	0	-5.753872	0	
197	N214	-1.515838	0	-5.878872	0	
198	N215	-5.299331	0	1.174332	0	
199	N216	-5.515838	0	1.049332	0	
200	N217	-3.299331	0	-2.28977	0	
201	N218	-3.515838	0	-2.41477	0	
202	N219	-3.515838	-3.5	-2.41477	0	
203	N220	-3.515838	3.5	-2.41477	0	
204	N221	-1.515838	-3.5	-5.878872	0	
205	N222	-1.515838	3.5	-5.878872	0	
206	N223	-5.515838	-3.5	1.049332	0	
207	N224	-5.515838	3.5	1.049332	0	
208	N225	-6.557505	-3.5	2.853551	0	
209	N226	-6.557505	3.5	2.853551	0	
210	N228	-2.750617	0	-3.240171	0	
211	N229	-0.881417	0	-6.477721	0	
212	N230	-4.181379	0	-0.762019	0	
213	N231	-6.050579	0	2.475531	0	
214	N232	-6.557505	1	2.853551	0	
215	N233	-6.557505	-1	2.853551	0	
216	N234	-5.515838	2.75	1.049332	0	
217	N235	-5.515838	-2.75	1.049332	0	
218	N236	-6.590998	3.208333	3.411564	0	
219	N237	-0.340998	3.208333	-7.413754	0	
220	N238	-6.340998	3.208333	2.978551	0	
221	N239	-6.557505	3.208333	2.853551	0	
222	N240	-1.299331	3.208333	-5.753872	0	
223	N241	-1.515838	3.208333	-5.878872	0	
224	N242	-5.299331	3.208333	1.174332	0	
225	N243	-5.515838	3.208333	1.049332	0	
226	N244	-3.299331	3.208333	-2.28977	0	
227	N245	-3.515838	3.208333	-2.41477	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
228	N246	-2.750617	3.208333	-3.240171	0	
229	N248	-4.181379	3.208333	-0.762019	0	
230	N250	-1.049331	3.208333	-6.186884	0	
231	N251	-5.882665	3.208333	2.184694	0	
232	N252	-5.882665	3.408333	2.184694	0	
233	N253	-1.049331	3.408333	-6.186884	0	
234	N254	-3.515838	-1	-2.41477	0	
235	N255	-3.515838	.75	-2.41477	0	
236	N256	-3.515838	-2.75	-2.41477	0	
237	N257	-6.557504	1.5	2.853551	0	
238	N258	-3.515838	-2	-2.41477	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	Standoff Horizontal	HSS4X4X4	Beam	SquareTube	A500 Gr.B Re...	Typical	3.37	7.8	7.8	12.8
3	Corner Plate	PL1/2x6	Beam	BAR	A36 Gr.36	Typical	3	.063	9	.237
4	Platform Crossmem...	HSS4X4X4	Beam	SquareTube	A500 Gr.B Re...	Typical	3.37	7.8	7.8	12.8
5	Grating Support	L2x2x3	Beam	Single Angle	A36 Gr.36	Typical	.722	.271	.271	.009
6	Mount Pipe	PIPE_2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
7	Dual Mount Pipe	PIPE_2.5	Column	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
8	Support Rail	PIPE_2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
9	Support Rail Corner	PIPE_2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
10	Cross Arm Plate	PL3/8x6	Column	RECT	A36 Gr.36	Typical	2.25	.026	6.75	.101

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	N2	N1			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	M19	N8	N9			RIGID	None	None	RIGID	Typical
5	M20	N10	N11			RIGID	None	None	RIGID	Typical
6	M21	N12	N13			RIGID	None	None	RIGID	Typical
7	M22	N14	108MCLP...			RIGID	None	None	RIGID	Typical
8	MP3A	N17	N16			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
9	MP4A	N19	N18			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
10	MP2A	N21	N20			Dual Mount Pipe	Column	Pipe	A53 Gr.B	Typical
11	MP1A	N23	N22			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
12	M43	N102	N5			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
13	M46	N86C	N87A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
14	M35A	N7	N30			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
15	M36A	N6	N29			RIGID	None	None	RIGID	Typical
16	M51B	N87C	N6			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
17	M52B	N7	N87B			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
18	M52	N87B	N88C			RIGID	None	None	RIGID	Typical
19	M58	N102	N24			RIGID	None	None	RIGID	Typical
20	M59	N24	N103A			RIGID	None	None	RIGID	Typical
21	M76	N101	N105			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
22	M77	N105	N131			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
23	M79	N131	N86A			RIGID	None	None	RIGID	Typical
24	M80	N87A	N135			Corner Plate	Beam	BAR	A36 Gr.36	Typical
25	M83	N135	N86D			RIGID	None	None	RIGID	Typical
26	M84	N5	N104A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
27	M85	N104A	N144			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
28	M88	N144	N86B			RIGID	None	None	RIGID	Typical
29	M91	N86C	N148			Corner Plate	Beam	BAR	A36 Gr.36	Typical
30	M92	N148	N86E			RIGID	None	None	RIGID	Typical
31	M50	N88C	N88A			RIGID	None	None	RIGID	Typical
32	M51	N88A	N86G			RIGID	None	None	RIGID	Typical
33	M51A	N87C	N86G			RIGID	None	None	RIGID	Typical
34	M84B	N112A	N113A			Support Rail	Column	Pipe	A53 Gr.B	Typical
35	M85B	N114A	N115A			RIGID	None	None	RIGID	Typical
36	M86A	N116A	N117A			RIGID	None	None	RIGID	Typical
37	M87A	N118A	N119A			RIGID	None	None	RIGID	Typical
38	M88B	N120A	N121A			RIGID	None	None	RIGID	Typical
39	M89A	N128A	N127A			RIGID	None	None	RIGID	Typical
40	M90A	N130A	N126A			RIGID	None	None	RIGID	Typical
41	M123	N253	N202			Support Rail C...	Column	Pipe	A53 Gr.B	Typical
42	M44	N87	N92			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
43	M45	N96	N98			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
44	M46A	N97	N88			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
45	M47	N107	N108			Corner Plate	Beam	BAR	A36 Gr.36	Typical
46	M48	N90	N95		240	RIGID	None	None	RIGID	Typical
47	M49	N89	N94		240	RIGID	None	None	RIGID	Typical
48	M50A	N112	N89			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
49	M51C	N90	N114			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
50	M52A	N114	N115		240	RIGID	None	None	RIGID	Typical
51	M53	N97	N91			RIGID	None	None	RIGID	Typical
52	M54	N91	N98			RIGID	None	None	RIGID	Typical
53	M55	N96	N100			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
54	M56	N100	N101A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
55	M57	N101A	N105B			RIGID	None	None	RIGID	Typical
56	M58A	N108	N102A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
57	M59A	N102A	N109A			RIGID	None	None	RIGID	Typical
58	M60	N88	N99			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
59	M61	N99	N103			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
60	M62	N103	N106			RIGID	None	None	RIGID	Typical
61	M63	N107	N104			Corner Plate	Beam	BAR	A36 Gr.36	Typical
62	M64	N104	N110			RIGID	None	None	RIGID	Typical
63	M65	N115	N111			RIGID	None	None	RIGID	Typical
64	M66	N111	N113			RIGID	None	None	RIGID	Typical
65	M67	N112	N113		240	RIGID	None	None	RIGID	Typical
66	M70	N130A	N252			Support Rail C...	Column	Pipe	A53 Gr.B	Typical
67	M71	N124	N129			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
68	M72	N133	N135A			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
69	M73	N134	N125			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
70	M74	N144A	N145			Corner Plate	Beam	BAR	A36 Gr.36	Typical
71	M75	N127	N132A		120	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
72	M76A	N126	N131A		120	RIGID	None	None	RIGID	Typical
73	M77A	N149	N126			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
74	M78	N127	N151			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
75	M79A	N151	N152		120	RIGID	None	None	RIGID	Typical
76	M80A	N134	N128			RIGID	None	None	RIGID	Typical
77	M81	N128	N135A			RIGID	None	None	RIGID	Typical
78	M82	N133	N137			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
79	M83A	N137	N138			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
80	M84A	N138	N142			RIGID	None	None	RIGID	Typical
81	M85A	N145	N139			Corner Plate	Beam	BAR	A36 Gr.36	Typical
82	M86	N139	N146			RIGID	None	None	RIGID	Typical
83	M87	N125	N136A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
84	M88A	N136A	N140			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
85	M89	N140	N143A			RIGID	None	None	RIGID	Typical
86	M90	N144A	N141			Corner Plate	Beam	BAR	A36 Gr.36	Typical
87	M91A	N141	N147			RIGID	None	None	RIGID	Typical
88	M92A	N152	N148A			RIGID	None	None	RIGID	Typical
89	M93	N148A	N150			RIGID	None	None	RIGID	Typical
90	M94	N149	N150		120	RIGID	None	None	RIGID	Typical
91	M97	N203	N128A			Support Rail C...	Column	Pipe	A53 Gr.B	Typical
92	M98	N160A	N159A			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
93	M99	N161	N162			RIGID	None	None	RIGID	Typical
94	M100	N163A	N164A			RIGID	None	None	RIGID	Typical
95	M101	N165	N166A			RIGID	None	None	RIGID	Typical
96	M102	N167A	N168			RIGID	None	None	RIGID	Typical
97	MP3C	N170	N169		240	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
98	MP4C	N172	N171		240	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
99	MP2C	N174	N173		240	Dual Mount Pipe	Column	Pipe	A53 Gr.B	Typical
100	MP1C	N176	N175		240	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
101	M107	N186	N187			Support Rail	Column	Pipe	A53 Gr.B	Typical
102	M108	N188	N189			RIGID	None	None	RIGID	Typical
103	M109	N190	N191			RIGID	None	None	RIGID	Typical
104	M110	N192	N193			RIGID	None	None	RIGID	Typical
105	M111	N194	N195			RIGID	None	None	RIGID	Typical
106	M112	N202	N201A		240	RIGID	None	None	RIGID	Typical
107	M113	N203	N200A		240	RIGID	None	None	RIGID	Typical
108	M114	N210	N209			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
109	M115	N211A	N212			RIGID	None	None	RIGID	Typical
110	M116	N213	N214			RIGID	None	None	RIGID	Typical
111	M117	N215	N216			RIGID	None	None	RIGID	Typical
112	M118	N217	N218			RIGID	None	None	RIGID	Typical
113	MP3B	N220	N219		120	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
114	MP4B	N222	N221		120	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
115	MP2B	N224	N223		120	Dual Mount Pipe	Column	Pipe	A53 Gr.B	Typical
116	MP1B	N226	N225		120	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
117	M123A	N236	N237			Support Rail	Column	Pipe	A53 Gr.B	Typical
118	M124	N238	N239			RIGID	None	None	RIGID	Typical
119	M125	N240	N241			RIGID	None	None	RIGID	Typical
120	M126	N242	N243			RIGID	None	None	RIGID	Typical
121	M127	N244	N245			RIGID	None	None	RIGID	Typical
122	M128	N252	N251		120	RIGID	None	None	RIGID	Typical
123	M129	N253	N250		120	RIGID	None	None	RIGID	Typical

Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
1	M1	Face Horizo...	12.5			Lbyy						Lateral
2	M4	Standoff Ho...	5.188			Lbyy						Lateral
3	M10	Platform Cr...	2.375			Lbyy						Lateral
4	MP3A	Mount Pipe	7			Lbyy						Lateral
5	MP4A	Mount Pipe	7			Lbyy						Lateral
6	MP2A	Dual Mount ...	7			Lbyy						Lateral
7	MP1A	Mount Pipe	7			Lbyy						Lateral
8	M43	Platform Cr...	2.375			Lbyy						Lateral
9	M46	Corner Plate	1.031			Lbyy						Lateral
10	M51B	Grating Sup...	4.162			Lbyy						Lateral
11	M52B	Grating Sup...	4.162			Lbyy						Lateral
12	M76	Cross Arm ...	.219									Lateral
13	M77	Cross Arm ...	.167									Lateral
14	M80	Corner Plate	.112			Lbyy						Lateral
15	M84	Cross Arm ...	.219									Lateral
16	M85	Cross Arm ...	.167									Lateral
17	M91	Corner Plate	.112			Lbyy						Lateral
18	M84B	Support Rail	12.5			Lbyy						Lateral
19	M123	Support Rail...	2.099									Lateral
20	M44	Standoff Ho...	5.188			Lbyy						Lateral
21	M45	Platform Cr...	2.375			Lbyy						Lateral
22	M46A	Platform Cr...	2.375			Lbyy						Lateral
23	M47	Corner Plate	1.031			Lbyy						Lateral
24	M50A	Grating Sup...	4.162			Lbyy						Lateral
25	M51C	Grating Sup...	4.162			Lbyy						Lateral
26	M55	Cross Arm ...	.219									Lateral
27	M56	Cross Arm ...	.167									Lateral
28	M58A	Corner Plate	.112			Lbyy						Lateral
29	M60	Cross Arm ...	.219									Lateral
30	M61	Cross Arm ...	.167									Lateral
31	M63	Corner Plate	.112			Lbyy						Lateral
32	M70	Support Rail...	2.099									Lateral
33	M71	Standoff Ho...	5.188			Lbyy						Lateral
34	M72	Platform Cr...	2.375			Lbyy						Lateral
35	M73	Platform Cr...	2.375			Lbyy						Lateral
36	M74	Corner Plate	1.031			Lbyy						Lateral
37	M77A	Grating Sup...	4.162			Lbyy						Lateral
38	M78	Grating Sup...	4.162			Lbyy						Lateral
39	M82	Cross Arm ...	.219									Lateral
40	M83A	Cross Arm ...	.167									Lateral
41	M85A	Corner Plate	.112			Lbyy						Lateral
42	M87	Cross Arm ...	.219									Lateral
43	M88A	Cross Arm ...	.167									Lateral
44	M90	Corner Plate	.112			Lbyy						Lateral
45	M97	Support Rail...	2.099									Lateral
46	M98	Face Horizo...	12.5			Lbyy						Lateral
47	MP3C	Mount Pipe	7			Lbyy						Lateral
48	MP4C	Mount Pipe	7			Lbyy						Lateral
49	MP2C	Dual Mount ...	7			Lbyy						Lateral
50	MP1C	Mount Pipe	7			Lbyy						Lateral
51	M107	Support Rail	12.5			Lbyy						Lateral
52	M114	Face Horizo...	12.5			Lbyy						Lateral
53	MP3B	Mount Pipe	7			Lbyy						Lateral
54	MP4B	Mount Pipe	7			Lbyy						Lateral
55	MP2B	Dual Mount ...	7			Lbyy						Lateral
56	MP1B	Mount Pipe	7			Lbyy						Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
57	M123A	Support Rail	12.5			Lbyy						Lateral

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-23	2.75
2	MP2A	My	-.021	2.75
3	MP2A	Mz	.019	2.75
4	MP2A	Y	-23	6.25
5	MP2A	My	-.021	6.25
6	MP2A	Mz	.019	6.25
7	MP2B	Y	-23	2.75
8	MP2B	My	.004	2.75
9	MP2B	Mz	-.028	2.75
10	MP2B	Y	-23	6.25
11	MP2B	My	.004	6.25
12	MP2B	Mz	-.028	6.25
13	MP2C	Y	-23	2.75
14	MP2C	My	.027	2.75
15	MP2C	Mz	.009	2.75
16	MP2C	Y	-23	6.25
17	MP2C	My	.027	6.25
18	MP2C	Mz	.009	6.25
19	MP2A	Y	-23	2.75
20	MP2A	My	-.021	2.75
21	MP2A	Mz	-.019	2.75
22	MP2A	Y	-23	6.25
23	MP2A	My	-.021	6.25
24	MP2A	Mz	-.019	6.25
25	MP2B	Y	-23	2.75
26	MP2B	My	.028	2.75
27	MP2B	Mz	.001	2.75
28	MP2B	Y	-23	6.25
29	MP2B	My	.028	6.25
30	MP2B	Mz	.001	6.25
31	MP2C	Y	-23	2.75
32	MP2C	My	-.006	2.75
33	MP2C	Mz	.028	2.75
34	MP2C	Y	-23	6.25
35	MP2C	My	-.006	6.25
36	MP2C	Mz	.028	6.25
37	MP3A	Y	-43.55	3.5
38	MP3A	My	-.022	3.5
39	MP3A	Mz	0	3.5
40	MP3A	Y	-43.55	5.5
41	MP3A	My	-.022	5.5
42	MP3A	Mz	0	5.5
43	MP3B	Y	-43.55	3.5
44	MP3B	My	.017	3.5
45	MP3B	Mz	-.014	3.5
46	MP3B	Y	-43.55	5.5
47	MP3B	My	.017	5.5
48	MP3B	Mz	-.014	5.5
49	MP3C	Y	-43.55	3.5
50	MP3C	My	.011	3.5
51	MP3C	Mz	.019	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
52	MP3C	Y	-43.55	5.5
53	MP3C	My	.011	5.5
54	MP3C	Mz	.019	5.5
55	MP4A	Y	-20	2.75
56	MP4A	My	-.013	2.75
57	MP4A	Mz	0	2.75
58	MP4A	Y	-20	6.25
59	MP4A	My	-.013	6.25
60	MP4A	Mz	0	6.25
61	MP4B	Y	-20	2.75
62	MP4B	My	.01	2.75
63	MP4B	Mz	-.009	2.75
64	MP4B	Y	-20	6.25
65	MP4B	My	.01	6.25
66	MP4B	Mz	-.009	6.25
67	MP4C	Y	-20	2.75
68	MP4C	My	.007	2.75
69	MP4C	Mz	.012	2.75
70	MP4C	Y	-20	6.25
71	MP4C	My	.007	6.25
72	MP4C	Mz	.012	6.25
73	MP2A	Y	-74.7	2
74	MP2A	My	.037	2
75	MP2A	Mz	0	2
76	MP2B	Y	-74.7	2
77	MP2B	My	-.029	2
78	MP2B	Mz	.024	2
79	MP2C	Y	-74.7	2
80	MP2C	My	-.019	2
81	MP2C	Mz	-.032	2
82	MP1A	Y	-70.3	2
83	MP1A	My	-.035	2
84	MP1A	Mz	0	2
85	MP1B	Y	-70.3	2
86	MP1B	My	.027	2
87	MP1B	Mz	-.023	2
88	MP1C	Y	-70.3	2
89	MP1C	My	.018	2
90	MP1C	Mz	.03	2

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-80.293	2.75
2	MP2A	My	-.074	2.75
3	MP2A	Mz	.067	2.75
4	MP2A	Y	-80.293	6.25
5	MP2A	My	-.074	6.25
6	MP2A	Mz	.067	6.25
7	MP2B	Y	-80.293	2.75
8	MP2B	My	.013	2.75
9	MP2B	Mz	-.099	2.75
10	MP2B	Y	-80.293	6.25
11	MP2B	My	.013	6.25
12	MP2B	Mz	-.099	6.25
13	MP2C	Y	-80.293	2.75
14	MP2C	My	.095	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP2C	Mz	.03	2.75
16	MP2C	Y	-80.293	6.25
17	MP2C	My	.095	6.25
18	MP2C	Mz	.03	6.25
19	MP2A	Y	-80.293	2.75
20	MP2A	My	-.074	2.75
21	MP2A	Mz	-.067	2.75
22	MP2A	Y	-80.293	6.25
23	MP2A	My	-.074	6.25
24	MP2A	Mz	-.067	6.25
25	MP2B	Y	-80.293	2.75
26	MP2B	My	.099	2.75
27	MP2B	Mz	.004	2.75
28	MP2B	Y	-80.293	6.25
29	MP2B	My	.099	6.25
30	MP2B	Mz	.004	6.25
31	MP2C	Y	-80.293	2.75
32	MP2C	My	-.021	2.75
33	MP2C	Mz	.097	2.75
34	MP2C	Y	-80.293	6.25
35	MP2C	My	-.021	6.25
36	MP2C	Mz	.097	6.25
37	MP3A	Y	-34.649	3.5
38	MP3A	My	-.017	3.5
39	MP3A	Mz	0	3.5
40	MP3A	Y	-34.649	5.5
41	MP3A	My	-.017	5.5
42	MP3A	Mz	0	5.5
43	MP3B	Y	-34.649	3.5
44	MP3B	My	.013	3.5
45	MP3B	Mz	-.011	3.5
46	MP3B	Y	-34.649	5.5
47	MP3B	My	.013	5.5
48	MP3B	Mz	-.011	5.5
49	MP3C	Y	-34.649	3.5
50	MP3C	My	.009	3.5
51	MP3C	Mz	.015	3.5
52	MP3C	Y	-34.649	5.5
53	MP3C	My	.009	5.5
54	MP3C	Mz	.015	5.5
55	MP4A	Y	-59.42	2.75
56	MP4A	My	-.04	2.75
57	MP4A	Mz	0	2.75
58	MP4A	Y	-59.42	6.25
59	MP4A	My	-.04	6.25
60	MP4A	Mz	0	6.25
61	MP4B	Y	-59.42	2.75
62	MP4B	My	.03	2.75
63	MP4B	Mz	-.025	2.75
64	MP4B	Y	-59.42	6.25
65	MP4B	My	.03	6.25
66	MP4B	Mz	-.025	6.25
67	MP4C	Y	-59.42	2.75
68	MP4C	My	.02	2.75
69	MP4C	Mz	.034	2.75
70	MP4C	Y	-59.42	6.25
71	MP4C	My	.02	6.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
72	MP4C	Mz	.034	6.25
73	MP2A	Y	-43.667	2
74	MP2A	My	.022	2
75	MP2A	Mz	0	2
76	MP2B	Y	-43.667	2
77	MP2B	My	-.017	2
78	MP2B	Mz	.014	2
79	MP2C	Y	-43.667	2
80	MP2C	My	-.011	2
81	MP2C	Mz	-.019	2
82	MP1A	Y	-41.581	2
83	MP1A	My	-.021	2
84	MP1A	Mz	0	2
85	MP1B	Y	-41.581	2
86	MP1B	My	.016	2
87	MP1B	Mz	-.013	2
88	MP1C	Y	-41.581	2
89	MP1C	My	.01	2
90	MP1C	Mz	.018	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	2.75
2	MP2A	Z	-213.637	2.75
3	MP2A	Mx	-.178	2.75
4	MP2A	X	0	6.25
5	MP2A	Z	-213.637	6.25
6	MP2A	Mx	-.178	6.25
7	MP2B	X	0	2.75
8	MP2B	Z	-190.992	2.75
9	MP2B	Mx	.234	2.75
10	MP2B	X	0	6.25
11	MP2B	Z	-190.992	6.25
12	MP2B	Mx	.234	6.25
13	MP2C	X	0	2.75
14	MP2C	Z	-172.532	2.75
15	MP2C	Mx	-.065	2.75
16	MP2C	X	0	6.25
17	MP2C	Z	-172.532	6.25
18	MP2C	Mx	-.065	6.25
19	MP2A	X	0	2.75
20	MP2A	Z	-213.637	2.75
21	MP2A	Mx	.178	2.75
22	MP2A	X	0	6.25
23	MP2A	Z	-213.637	6.25
24	MP2A	Mx	.178	6.25
25	MP2B	X	0	2.75
26	MP2B	Z	-190.992	2.75
27	MP2B	Mx	-.009	2.75
28	MP2B	X	0	6.25
29	MP2B	Z	-190.992	6.25
30	MP2B	Mx	-.009	6.25
31	MP2C	X	0	2.75
32	MP2C	Z	-172.532	2.75
33	MP2C	Mx	-.209	2.75
34	MP2C	X	0	6.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	MP2C	Z	-172.532	6.25
36	MP2C	Mx	-.209	6.25
37	MP3A	X	0	3.5
38	MP3A	Z	-101.732	3.5
39	MP3A	Mx	0	3.5
40	MP3A	X	0	5.5
41	MP3A	Z	-101.732	5.5
42	MP3A	Mx	0	5.5
43	MP3B	X	0	3.5
44	MP3B	Z	-76.155	3.5
45	MP3B	Mx	.024	3.5
46	MP3B	X	0	5.5
47	MP3B	Z	-76.155	5.5
48	MP3B	Mx	.024	5.5
49	MP3C	X	0	3.5
50	MP3C	Z	-55.304	3.5
51	MP3C	Mx	-.024	3.5
52	MP3C	X	0	5.5
53	MP3C	Z	-55.304	5.5
54	MP3C	Mx	-.024	5.5
55	MP4A	X	0	2.75
56	MP4A	Z	-176.624	2.75
57	MP4A	Mx	0	2.75
58	MP4A	X	0	6.25
59	MP4A	Z	-176.624	6.25
60	MP4A	Mx	0	6.25
61	MP4B	X	0	2.75
62	MP4B	Z	-151.907	2.75
63	MP4B	Mx	.065	2.75
64	MP4B	X	0	6.25
65	MP4B	Z	-151.907	6.25
66	MP4B	Mx	.065	6.25
67	MP4C	X	0	2.75
68	MP4C	Z	-131.758	2.75
69	MP4C	Mx	-.076	2.75
70	MP4C	X	0	6.25
71	MP4C	Z	-131.758	6.25
72	MP4C	Mx	-.076	6.25
73	MP2A	X	0	2
74	MP2A	Z	-80.953	2
75	MP2A	Mx	0	2
76	MP2B	X	0	2
77	MP2B	Z	-69.863	2
78	MP2B	Mx	-.022	2
79	MP2C	X	0	2
80	MP2C	Z	-60.823	2
81	MP2C	Mx	.026	2
82	MP1A	X	0	2
83	MP1A	Z	-80.953	2
84	MP1A	Mx	0	2
85	MP1B	X	0	2
86	MP1B	Z	-67.851	2
87	MP1B	Mx	.022	2
88	MP1C	X	0	2
89	MP1C	Z	-57.17	2
90	MP1C	Mx	-.025	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	99.968	2.75
2	MP2A	Z	-173.149	2.75
3	MP2A	Mx	-.236	2.75
4	MP2A	X	99.968	6.25
5	MP2A	Z	-173.149	6.25
6	MP2A	Mx	-.236	6.25
7	MP2B	X	82.621	2.75
8	MP2B	Z	-143.104	2.75
9	MP2B	Mx	.189	2.75
10	MP2B	X	82.621	6.25
11	MP2B	Z	-143.104	6.25
12	MP2B	Mx	.189	6.25
13	MP2C	X	99.968	2.75
14	MP2C	Z	-173.149	2.75
15	MP2C	Mx	.053	2.75
16	MP2C	X	99.968	6.25
17	MP2C	Z	-173.149	6.25
18	MP2C	Mx	.053	6.25
19	MP2A	X	99.968	2.75
20	MP2A	Z	-173.149	2.75
21	MP2A	Mx	.053	2.75
22	MP2A	X	99.968	6.25
23	MP2A	Z	-173.149	6.25
24	MP2A	Mx	.053	6.25
25	MP2B	X	82.621	2.75
26	MP2B	Z	-143.104	2.75
27	MP2B	Mx	.095	2.75
28	MP2B	X	82.621	6.25
29	MP2B	Z	-143.104	6.25
30	MP2B	Mx	.095	6.25
31	MP2C	X	99.968	2.75
32	MP2C	Z	-173.149	2.75
33	MP2C	Mx	-.236	2.75
34	MP2C	X	99.968	6.25
35	MP2C	Z	-173.149	6.25
36	MP2C	Mx	-.236	6.25
37	MP3A	X	43.128	3.5
38	MP3A	Z	-74.7	3.5
39	MP3A	Mx	-.022	3.5
40	MP3A	X	43.128	5.5
41	MP3A	Z	-74.7	5.5
42	MP3A	Mx	-.022	5.5
43	MP3B	X	23.535	3.5
44	MP3B	Z	-40.763	3.5
45	MP3B	Mx	.022	3.5
46	MP3B	X	23.535	5.5
47	MP3B	Z	-40.763	5.5
48	MP3B	Mx	.022	5.5
49	MP3C	X	43.128	3.5
50	MP3C	Z	-74.7	3.5
51	MP3C	Mx	-.022	3.5
52	MP3C	X	43.128	5.5
53	MP3C	Z	-74.7	5.5
54	MP3C	Mx	-.022	5.5
55	MP4A	X	80.834	2.75
56	MP4A	Z	-140.009	2.75
57	MP4A	Mx	-.054	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP4A	X	80.834	6.25
59	MP4A	Z	-140.009	6.25
60	MP4A	Mx	-.054	6.25
61	MP4B	X	61.9	2.75
62	MP4B	Z	-107.214	2.75
63	MP4B	Mx	.078	2.75
64	MP4B	X	61.9	6.25
65	MP4B	Z	-107.214	6.25
66	MP4B	Mx	.078	6.25
67	MP4C	X	80.834	2.75
68	MP4C	Z	-140.009	2.75
69	MP4C	Mx	-.054	2.75
70	MP4C	X	80.834	6.25
71	MP4C	Z	-140.009	6.25
72	MP4C	Mx	-.054	6.25
73	MP2A	X	37.121	2
74	MP2A	Z	-64.296	2
75	MP2A	Mx	.019	2
76	MP2B	X	28.626	2
77	MP2B	Z	-49.582	2
78	MP2B	Mx	-.027	2
79	MP2C	X	37.121	2
80	MP2C	Z	-64.296	2
81	MP2C	Mx	.019	2
82	MP1A	X	36.513	2
83	MP1A	Z	-63.242	2
84	MP1A	Mx	-.018	2
85	MP1B	X	26.476	2
86	MP1B	Z	-45.858	2
87	MP1B	Mx	.025	2
88	MP1C	X	36.513	2
89	MP1C	Z	-63.242	2
90	MP1C	Mx	-.018	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	149.417	2.75
2	MP2A	Z	-86.266	2.75
3	MP2A	Mx	-.209	2.75
4	MP2A	X	149.417	6.25
5	MP2A	Z	-86.266	6.25
6	MP2A	Mx	-.209	6.25
7	MP2B	X	138.983	2.75
8	MP2B	Z	-80.242	2.75
9	MP2B	Mx	.122	2.75
10	MP2B	X	138.983	6.25
11	MP2B	Z	-80.242	6.25
12	MP2B	Mx	.122	6.25
13	MP2C	X	185.015	2.75
14	MP2C	Z	-106.818	2.75
15	MP2C	Mx	.178	2.75
16	MP2C	X	185.015	6.25
17	MP2C	Z	-106.818	6.25
18	MP2C	Mx	.178	6.25
19	MP2A	X	149.417	2.75
20	MP2A	Z	-86.266	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP2A	Mx	-.065	2.75
22	MP2A	X	149.417	6.25
23	MP2A	Z	-86.266	6.25
24	MP2A	Mx	-.065	6.25
25	MP2B	X	138.983	2.75
26	MP2B	Z	-80.242	2.75
27	MP2B	Mx	.168	2.75
28	MP2B	X	138.983	6.25
29	MP2B	Z	-80.242	6.25
30	MP2B	Mx	.168	6.25
31	MP2C	X	185.015	2.75
32	MP2C	Z	-106.818	2.75
33	MP2C	Mx	-.178	2.75
34	MP2C	X	185.015	6.25
35	MP2C	Z	-106.818	6.25
36	MP2C	Mx	-.178	6.25
37	MP3A	X	47.895	3.5
38	MP3A	Z	-27.652	3.5
39	MP3A	Mx	-.024	3.5
40	MP3A	X	47.895	5.5
41	MP3A	Z	-27.652	5.5
42	MP3A	Mx	-.024	5.5
43	MP3B	X	36.108	3.5
44	MP3B	Z	-20.847	3.5
45	MP3B	Mx	.021	3.5
46	MP3B	X	36.108	5.5
47	MP3B	Z	-20.847	5.5
48	MP3B	Mx	.021	5.5
49	MP3C	X	88.102	3.5
50	MP3C	Z	-50.866	3.5
51	MP3C	Mx	0	3.5
52	MP3C	X	88.102	5.5
53	MP3C	Z	-50.866	5.5
54	MP3C	Mx	0	5.5
55	MP4A	X	114.106	2.75
56	MP4A	Z	-65.879	2.75
57	MP4A	Mx	-.076	2.75
58	MP4A	X	114.106	6.25
59	MP4A	Z	-65.879	6.25
60	MP4A	Mx	-.076	6.25
61	MP4B	X	102.716	2.75
62	MP4B	Z	-59.303	2.75
63	MP4B	Mx	.078	2.75
64	MP4B	X	102.716	6.25
65	MP4B	Z	-59.303	6.25
66	MP4B	Mx	.078	6.25
67	MP4C	X	152.961	2.75
68	MP4C	Z	-88.312	2.75
69	MP4C	Mx	0	2.75
70	MP4C	X	152.961	6.25
71	MP4C	Z	-88.312	6.25
72	MP4C	Mx	0	6.25
73	MP2A	X	52.674	2
74	MP2A	Z	-30.411	2
75	MP2A	Mx	.026	2
76	MP2B	X	47.564	2
77	MP2B	Z	-27.461	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
78	MP2B	Mx	-.027	2
79	MP2C	X	70.107	2
80	MP2C	Z	-40.476	2
81	MP2C	Mx	0	2
82	MP1A	X	49.511	2
83	MP1A	Z	-28.585	2
84	MP1A	Mx	-.025	2
85	MP1B	X	43.473	2
86	MP1B	Z	-25.099	2
87	MP1B	Mx	.025	2
88	MP1C	X	70.107	2
89	MP1C	Z	-40.476	2
90	MP1C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	158.831	2.75
2	MP2A	Z	0	2.75
3	MP2A	Mx	-.146	2.75
4	MP2A	X	158.831	6.25
5	MP2A	Z	0	6.25
6	MP2A	Mx	-.146	6.25
7	MP2B	X	181.475	2.75
8	MP2B	Z	0	2.75
9	MP2B	Mx	.03	2.75
10	MP2B	X	181.475	6.25
11	MP2B	Z	0	6.25
12	MP2B	Mx	.03	6.25
13	MP2C	X	199.935	2.75
14	MP2C	Z	0	2.75
15	MP2C	Mx	.236	2.75
16	MP2C	X	199.935	6.25
17	MP2C	Z	0	6.25
18	MP2C	Mx	.236	6.25
19	MP2A	X	158.831	2.75
20	MP2A	Z	0	2.75
21	MP2A	Mx	-.146	2.75
22	MP2A	X	158.831	6.25
23	MP2A	Z	0	6.25
24	MP2A	Mx	-.146	6.25
25	MP2B	X	181.475	2.75
26	MP2B	Z	0	2.75
27	MP2B	Mx	.225	2.75
28	MP2B	X	181.475	6.25
29	MP2B	Z	0	6.25
30	MP2B	Mx	.225	6.25
31	MP2C	X	199.935	2.75
32	MP2C	Z	0	2.75
33	MP2C	Mx	-.053	2.75
34	MP2C	X	199.935	6.25
35	MP2C	Z	0	6.25
36	MP2C	Mx	-.053	6.25
37	MP3A	X	39.828	3.5
38	MP3A	Z	0	3.5
39	MP3A	Mx	-.02	3.5
40	MP3A	X	39.828	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
41	MP3A	Z	0	5.5
42	MP3A	Mx	-.02	5.5
43	MP3B	X	65.405	3.5
44	MP3B	Z	0	3.5
45	MP3B	Mx	.025	3.5
46	MP3B	X	65.405	5.5
47	MP3B	Z	0	5.5
48	MP3B	Mx	.025	5.5
49	MP3C	X	86.256	3.5
50	MP3C	Z	0	3.5
51	MP3C	Mx	.022	3.5
52	MP3C	X	86.256	5.5
53	MP3C	Z	0	5.5
54	MP3C	Mx	.022	5.5
55	MP4A	X	116.802	2.75
56	MP4A	Z	0	2.75
57	MP4A	Mx	-.078	2.75
58	MP4A	X	116.802	6.25
59	MP4A	Z	0	6.25
60	MP4A	Mx	-.078	6.25
61	MP4B	X	141.519	2.75
62	MP4B	Z	0	2.75
63	MP4B	Mx	.072	2.75
64	MP4B	X	141.519	6.25
65	MP4B	Z	0	6.25
66	MP4B	Mx	.072	6.25
67	MP4C	X	161.668	2.75
68	MP4C	Z	0	2.75
69	MP4C	Mx	.054	2.75
70	MP4C	X	161.668	6.25
71	MP4C	Z	0	6.25
72	MP4C	Mx	.054	6.25
73	MP2A	X	54.113	2
74	MP2A	Z	0	2
75	MP2A	Mx	.027	2
76	MP2B	X	65.202	2
77	MP2B	Z	0	2
78	MP2B	Mx	-.025	2
79	MP2C	X	74.243	2
80	MP2C	Z	0	2
81	MP2C	Mx	-.019	2
82	MP1A	X	49.243	2
83	MP1A	Z	0	2
84	MP1A	Mx	-.025	2
85	MP1B	X	62.344	2
86	MP1B	Z	0	2
87	MP1B	Mx	.024	2
88	MP1C	X	73.025	2
89	MP1C	Z	0	2
90	MP1C	Mx	.018	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	149.417	2.75
2	MP2A	Z	86.266	2.75
3	MP2A	Mx	-.065	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP2A	X	149.417	6.25
5	MP2A	Z	86.266	6.25
6	MP2A	Mx	-.065	6.25
7	MP2B	X	179.463	2.75
8	MP2B	Z	103.613	2.75
9	MP2B	Mx	-.097	2.75
10	MP2B	X	179.463	6.25
11	MP2B	Z	103.613	6.25
12	MP2B	Mx	-.097	6.25
13	MP2C	X	149.417	2.75
14	MP2C	Z	86.266	2.75
15	MP2C	Mx	.209	2.75
16	MP2C	X	149.417	6.25
17	MP2C	Z	86.266	6.25
18	MP2C	Mx	.209	6.25
19	MP2A	X	149.417	2.75
20	MP2A	Z	86.266	2.75
21	MP2A	Mx	-.209	2.75
22	MP2A	X	149.417	6.25
23	MP2A	Z	86.266	6.25
24	MP2A	Mx	-.209	6.25
25	MP2B	X	179.463	2.75
26	MP2B	Z	103.613	2.75
27	MP2B	Mx	.227	2.75
28	MP2B	X	179.463	6.25
29	MP2B	Z	103.613	6.25
30	MP2B	Mx	.227	6.25
31	MP2C	X	149.417	2.75
32	MP2C	Z	86.266	2.75
33	MP2C	Mx	.065	2.75
34	MP2C	X	149.417	6.25
35	MP2C	Z	86.266	6.25
36	MP2C	Mx	.065	6.25
37	MP3A	X	47.895	3.5
38	MP3A	Z	27.652	3.5
39	MP3A	Mx	-.024	3.5
40	MP3A	X	47.895	5.5
41	MP3A	Z	27.652	5.5
42	MP3A	Mx	-.024	5.5
43	MP3B	X	81.831	3.5
44	MP3B	Z	47.245	3.5
45	MP3B	Mx	.016	3.5
46	MP3B	X	81.831	5.5
47	MP3B	Z	47.245	5.5
48	MP3B	Mx	.016	5.5
49	MP3C	X	47.895	3.5
50	MP3C	Z	27.652	3.5
51	MP3C	Mx	.024	3.5
52	MP3C	X	47.895	5.5
53	MP3C	Z	27.652	5.5
54	MP3C	Mx	.024	5.5
55	MP4A	X	114.106	2.75
56	MP4A	Z	65.879	2.75
57	MP4A	Mx	-.076	2.75
58	MP4A	X	114.106	6.25
59	MP4A	Z	65.879	6.25
60	MP4A	Mx	-.076	6.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
61	MP4B	X	146.9	2.75
62	MP4B	Z	84.813	2.75
63	MP4B	Mx	.039	2.75
64	MP4B	X	146.9	6.25
65	MP4B	Z	84.813	6.25
66	MP4B	Mx	.039	6.25
67	MP4C	X	114.106	2.75
68	MP4C	Z	65.879	2.75
69	MP4C	Mx	.076	2.75
70	MP4C	X	114.106	6.25
71	MP4C	Z	65.879	6.25
72	MP4C	Mx	.076	6.25
73	MP2A	X	52.674	2
74	MP2A	Z	30.411	2
75	MP2A	Mx	.026	2
76	MP2B	X	67.388	2
77	MP2B	Z	38.906	2
78	MP2B	Mx	-.013	2
79	MP2C	X	52.674	2
80	MP2C	Z	30.411	2
81	MP2C	Mx	-.026	2
82	MP1A	X	49.511	2
83	MP1A	Z	28.585	2
84	MP1A	Mx	-.025	2
85	MP1B	X	66.895	2
86	MP1B	Z	38.622	2
87	MP1B	Mx	.013	2
88	MP1C	X	49.511	2
89	MP1C	Z	28.585	2
90	MP1C	Mx	.025	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	99.968	2.75
2	MP2A	Z	173.149	2.75
3	MP2A	Mx	.053	2.75
4	MP2A	X	99.968	6.25
5	MP2A	Z	173.149	6.25
6	MP2A	Mx	.053	6.25
7	MP2B	X	105.992	2.75
8	MP2B	Z	183.584	2.75
9	MP2B	Mx	-.208	2.75
10	MP2B	X	105.992	6.25
11	MP2B	Z	183.584	6.25
12	MP2B	Mx	-.208	6.25
13	MP2C	X	79.415	2.75
14	MP2C	Z	137.551	2.75
15	MP2C	Mx	.146	2.75
16	MP2C	X	79.415	6.25
17	MP2C	Z	137.551	6.25
18	MP2C	Mx	.146	6.25
19	MP2A	X	99.968	2.75
20	MP2A	Z	173.149	2.75
21	MP2A	Mx	-.236	2.75
22	MP2A	X	99.968	6.25
23	MP2A	Z	173.149	6.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
24	MP2A	Mx	-.236	6.25
25	MP2B	X	105.992	2.75
26	MP2B	Z	183.584	2.75
27	MP2B	Mx	.14	2.75
28	MP2B	X	105.992	6.25
29	MP2B	Z	183.584	6.25
30	MP2B	Mx	.14	6.25
31	MP2C	X	79.415	2.75
32	MP2C	Z	137.551	2.75
33	MP2C	Mx	.146	2.75
34	MP2C	X	79.415	6.25
35	MP2C	Z	137.551	6.25
36	MP2C	Mx	.146	6.25
37	MP3A	X	43.128	3.5
38	MP3A	Z	74.7	3.5
39	MP3A	Mx	-.022	3.5
40	MP3A	X	43.128	5.5
41	MP3A	Z	74.7	5.5
42	MP3A	Mx	-.022	5.5
43	MP3B	X	49.933	3.5
44	MP3B	Z	86.486	3.5
45	MP3B	Mx	-.009	3.5
46	MP3B	X	49.933	5.5
47	MP3B	Z	86.486	5.5
48	MP3B	Mx	-.009	5.5
49	MP3C	X	19.914	3.5
50	MP3C	Z	34.492	3.5
51	MP3C	Mx	.02	3.5
52	MP3C	X	19.914	5.5
53	MP3C	Z	34.492	5.5
54	MP3C	Mx	.02	5.5
55	MP4A	X	80.834	2.75
56	MP4A	Z	140.009	2.75
57	MP4A	Mx	-.054	2.75
58	MP4A	X	80.834	6.25
59	MP4A	Z	140.009	6.25
60	MP4A	Mx	-.054	6.25
61	MP4B	X	87.41	2.75
62	MP4B	Z	151.398	2.75
63	MP4B	Mx	-.02	2.75
64	MP4B	X	87.41	6.25
65	MP4B	Z	151.398	6.25
66	MP4B	Mx	-.02	6.25
67	MP4C	X	58.401	2.75
68	MP4C	Z	101.154	2.75
69	MP4C	Mx	.078	2.75
70	MP4C	X	58.401	6.25
71	MP4C	Z	101.154	6.25
72	MP4C	Mx	.078	6.25
73	MP2A	X	37.121	2
74	MP2A	Z	64.296	2
75	MP2A	Mx	.019	2
76	MP2B	X	40.072	2
77	MP2B	Z	69.406	2
78	MP2B	Mx	.007	2
79	MP2C	X	27.056	2
80	MP2C	Z	46.863	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
81	MP2C	Mx	-.027	2
82	MP1A	X	36.513	2
83	MP1A	Z	63.242	2
84	MP1A	Mx	-.018	2
85	MP1B	X	39.998	2
86	MP1B	Z	69.279	2
87	MP1B	Mx	-.007	2
88	MP1C	X	24.621	2
89	MP1C	Z	42.645	2
90	MP1C	Mx	.025	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	2.75
2	MP2A	Z	213.637	2.75
3	MP2A	Mx	.178	2.75
4	MP2A	X	0	6.25
5	MP2A	Z	213.637	6.25
6	MP2A	Mx	.178	6.25
7	MP2B	X	0	2.75
8	MP2B	Z	190.992	2.75
9	MP2B	Mx	-.234	2.75
10	MP2B	X	0	6.25
11	MP2B	Z	190.992	6.25
12	MP2B	Mx	-.234	6.25
13	MP2C	X	0	2.75
14	MP2C	Z	172.532	2.75
15	MP2C	Mx	.065	2.75
16	MP2C	X	0	6.25
17	MP2C	Z	172.532	6.25
18	MP2C	Mx	.065	6.25
19	MP2A	X	0	2.75
20	MP2A	Z	213.637	2.75
21	MP2A	Mx	-.178	2.75
22	MP2A	X	0	6.25
23	MP2A	Z	213.637	6.25
24	MP2A	Mx	-.178	6.25
25	MP2B	X	0	2.75
26	MP2B	Z	190.992	2.75
27	MP2B	Mx	.009	2.75
28	MP2B	X	0	6.25
29	MP2B	Z	190.992	6.25
30	MP2B	Mx	.009	6.25
31	MP2C	X	0	2.75
32	MP2C	Z	172.532	2.75
33	MP2C	Mx	.209	2.75
34	MP2C	X	0	6.25
35	MP2C	Z	172.532	6.25
36	MP2C	Mx	.209	6.25
37	MP3A	X	0	3.5
38	MP3A	Z	101.732	3.5
39	MP3A	Mx	0	3.5
40	MP3A	X	0	5.5
41	MP3A	Z	101.732	5.5
42	MP3A	Mx	0	5.5
43	MP3B	X	0	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP3B	Z	76.155	3.5
45	MP3B	Mx	-.024	3.5
46	MP3B	X	0	5.5
47	MP3B	Z	76.155	5.5
48	MP3B	Mx	-.024	5.5
49	MP3C	X	0	3.5
50	MP3C	Z	55.304	3.5
51	MP3C	Mx	.024	3.5
52	MP3C	X	0	5.5
53	MP3C	Z	55.304	5.5
54	MP3C	Mx	.024	5.5
55	MP4A	X	0	2.75
56	MP4A	Z	176.624	2.75
57	MP4A	Mx	0	2.75
58	MP4A	X	0	6.25
59	MP4A	Z	176.624	6.25
60	MP4A	Mx	0	6.25
61	MP4B	X	0	2.75
62	MP4B	Z	151.907	2.75
63	MP4B	Mx	-.065	2.75
64	MP4B	X	0	6.25
65	MP4B	Z	151.907	6.25
66	MP4B	Mx	-.065	6.25
67	MP4C	X	0	2.75
68	MP4C	Z	131.758	2.75
69	MP4C	Mx	.076	2.75
70	MP4C	X	0	6.25
71	MP4C	Z	131.758	6.25
72	MP4C	Mx	.076	6.25
73	MP2A	X	0	2
74	MP2A	Z	80.953	2
75	MP2A	Mx	0	2
76	MP2B	X	0	2
77	MP2B	Z	69.863	2
78	MP2B	Mx	.022	2
79	MP2C	X	0	2
80	MP2C	Z	60.823	2
81	MP2C	Mx	-.026	2
82	MP1A	X	0	2
83	MP1A	Z	80.953	2
84	MP1A	Mx	0	2
85	MP1B	X	0	2
86	MP1B	Z	67.851	2
87	MP1B	Mx	-.022	2
88	MP1C	X	0	2
89	MP1C	Z	57.17	2
90	MP1C	Mx	.025	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-99.968	2.75
2	MP2A	Z	173.149	2.75
3	MP2A	Mx	.236	2.75
4	MP2A	X	-99.968	6.25
5	MP2A	Z	173.149	6.25
6	MP2A	Mx	.236	6.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
7	MP2B	X	-82.621	2.75
8	MP2B	Z	143.104	2.75
9	MP2B	Mx	-.189	2.75
10	MP2B	X	-82.621	6.25
11	MP2B	Z	143.104	6.25
12	MP2B	Mx	-.189	6.25
13	MP2C	X	-99.968	2.75
14	MP2C	Z	173.149	2.75
15	MP2C	Mx	-.053	2.75
16	MP2C	X	-99.968	6.25
17	MP2C	Z	173.149	6.25
18	MP2C	Mx	-.053	6.25
19	MP2A	X	-99.968	2.75
20	MP2A	Z	173.149	2.75
21	MP2A	Mx	-.053	2.75
22	MP2A	X	-99.968	6.25
23	MP2A	Z	173.149	6.25
24	MP2A	Mx	-.053	6.25
25	MP2B	X	-82.621	2.75
26	MP2B	Z	143.104	2.75
27	MP2B	Mx	-.095	2.75
28	MP2B	X	-82.621	6.25
29	MP2B	Z	143.104	6.25
30	MP2B	Mx	-.095	6.25
31	MP2C	X	-99.968	2.75
32	MP2C	Z	173.149	2.75
33	MP2C	Mx	.236	2.75
34	MP2C	X	-99.968	6.25
35	MP2C	Z	173.149	6.25
36	MP2C	Mx	.236	6.25
37	MP3A	X	-43.128	3.5
38	MP3A	Z	74.7	3.5
39	MP3A	Mx	.022	3.5
40	MP3A	X	-43.128	5.5
41	MP3A	Z	74.7	5.5
42	MP3A	Mx	.022	5.5
43	MP3B	X	-23.535	3.5
44	MP3B	Z	40.763	3.5
45	MP3B	Mx	-.022	3.5
46	MP3B	X	-23.535	5.5
47	MP3B	Z	40.763	5.5
48	MP3B	Mx	-.022	5.5
49	MP3C	X	-43.128	3.5
50	MP3C	Z	74.7	3.5
51	MP3C	Mx	.022	3.5
52	MP3C	X	-43.128	5.5
53	MP3C	Z	74.7	5.5
54	MP3C	Mx	.022	5.5
55	MP4A	X	-80.834	2.75
56	MP4A	Z	140.009	2.75
57	MP4A	Mx	.054	2.75
58	MP4A	X	-80.834	6.25
59	MP4A	Z	140.009	6.25
60	MP4A	Mx	.054	6.25
61	MP4B	X	-61.9	2.75
62	MP4B	Z	107.214	2.75
63	MP4B	Mx	-.078	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
64	MP4B	X	-61.9	6.25
65	MP4B	Z	107.214	6.25
66	MP4B	Mx	-.078	6.25
67	MP4C	X	-80.834	2.75
68	MP4C	Z	140.009	2.75
69	MP4C	Mx	.054	2.75
70	MP4C	X	-80.834	6.25
71	MP4C	Z	140.009	6.25
72	MP4C	Mx	.054	6.25
73	MP2A	X	-37.121	2
74	MP2A	Z	64.296	2
75	MP2A	Mx	-.019	2
76	MP2B	X	-28.626	2
77	MP2B	Z	49.582	2
78	MP2B	Mx	.027	2
79	MP2C	X	-37.121	2
80	MP2C	Z	64.296	2
81	MP2C	Mx	-.019	2
82	MP1A	X	-36.513	2
83	MP1A	Z	63.242	2
84	MP1A	Mx	.018	2
85	MP1B	X	-26.476	2
86	MP1B	Z	45.858	2
87	MP1B	Mx	-.025	2
88	MP1C	X	-36.513	2
89	MP1C	Z	63.242	2
90	MP1C	Mx	.018	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-149.417	2.75
2	MP2A	Z	86.266	2.75
3	MP2A	Mx	.209	2.75
4	MP2A	X	-149.417	6.25
5	MP2A	Z	86.266	6.25
6	MP2A	Mx	.209	6.25
7	MP2B	X	-138.983	2.75
8	MP2B	Z	80.242	2.75
9	MP2B	Mx	-.122	2.75
10	MP2B	X	-138.983	6.25
11	MP2B	Z	80.242	6.25
12	MP2B	Mx	-.122	6.25
13	MP2C	X	-185.015	2.75
14	MP2C	Z	106.818	2.75
15	MP2C	Mx	-.178	2.75
16	MP2C	X	-185.015	6.25
17	MP2C	Z	106.818	6.25
18	MP2C	Mx	-.178	6.25
19	MP2A	X	-149.417	2.75
20	MP2A	Z	86.266	2.75
21	MP2A	Mx	.065	2.75
22	MP2A	X	-149.417	6.25
23	MP2A	Z	86.266	6.25
24	MP2A	Mx	.065	6.25
25	MP2B	X	-138.983	2.75
26	MP2B	Z	80.242	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP2B	Mx	-.168	2.75
28	MP2B	X	-138.983	6.25
29	MP2B	Z	80.242	6.25
30	MP2B	Mx	-.168	6.25
31	MP2C	X	-185.015	2.75
32	MP2C	Z	106.818	2.75
33	MP2C	Mx	.178	2.75
34	MP2C	X	-185.015	6.25
35	MP2C	Z	106.818	6.25
36	MP2C	Mx	.178	6.25
37	MP3A	X	-47.895	3.5
38	MP3A	Z	27.652	3.5
39	MP3A	Mx	.024	3.5
40	MP3A	X	-47.895	5.5
41	MP3A	Z	27.652	5.5
42	MP3A	Mx	.024	5.5
43	MP3B	X	-36.108	3.5
44	MP3B	Z	20.847	3.5
45	MP3B	Mx	-.021	3.5
46	MP3B	X	-36.108	5.5
47	MP3B	Z	20.847	5.5
48	MP3B	Mx	-.021	5.5
49	MP3C	X	-88.102	3.5
50	MP3C	Z	50.866	3.5
51	MP3C	Mx	0	3.5
52	MP3C	X	-88.102	5.5
53	MP3C	Z	50.866	5.5
54	MP3C	Mx	0	5.5
55	MP4A	X	-114.106	2.75
56	MP4A	Z	65.879	2.75
57	MP4A	Mx	.076	2.75
58	MP4A	X	-114.106	6.25
59	MP4A	Z	65.879	6.25
60	MP4A	Mx	.076	6.25
61	MP4B	X	-102.716	2.75
62	MP4B	Z	59.303	2.75
63	MP4B	Mx	-.078	2.75
64	MP4B	X	-102.716	6.25
65	MP4B	Z	59.303	6.25
66	MP4B	Mx	-.078	6.25
67	MP4C	X	-152.961	2.75
68	MP4C	Z	88.312	2.75
69	MP4C	Mx	0	2.75
70	MP4C	X	-152.961	6.25
71	MP4C	Z	88.312	6.25
72	MP4C	Mx	0	6.25
73	MP2A	X	-52.674	2
74	MP2A	Z	30.411	2
75	MP2A	Mx	-.026	2
76	MP2B	X	-47.564	2
77	MP2B	Z	27.461	2
78	MP2B	Mx	.027	2
79	MP2C	X	-70.107	2
80	MP2C	Z	40.476	2
81	MP2C	Mx	0	2
82	MP1A	X	-49.511	2
83	MP1A	Z	28.585	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
84	MP1A	Mx	.025	2
85	MP1B	X	-43.473	2
86	MP1B	Z	25.099	2
87	MP1B	Mx	-.025	2
88	MP1C	X	-70.107	2
89	MP1C	Z	40.476	2
90	MP1C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-158.831	2.75
2	MP2A	Z	0	2.75
3	MP2A	Mx	.146	2.75
4	MP2A	X	-158.831	6.25
5	MP2A	Z	0	6.25
6	MP2A	Mx	.146	6.25
7	MP2B	X	-181.475	2.75
8	MP2B	Z	0	2.75
9	MP2B	Mx	-.03	2.75
10	MP2B	X	-181.475	6.25
11	MP2B	Z	0	6.25
12	MP2B	Mx	-.03	6.25
13	MP2C	X	-199.935	2.75
14	MP2C	Z	0	2.75
15	MP2C	Mx	-.236	2.75
16	MP2C	X	-199.935	6.25
17	MP2C	Z	0	6.25
18	MP2C	Mx	-.236	6.25
19	MP2A	X	-158.831	2.75
20	MP2A	Z	0	2.75
21	MP2A	Mx	.146	2.75
22	MP2A	X	-158.831	6.25
23	MP2A	Z	0	6.25
24	MP2A	Mx	.146	6.25
25	MP2B	X	-181.475	2.75
26	MP2B	Z	0	2.75
27	MP2B	Mx	-.225	2.75
28	MP2B	X	-181.475	6.25
29	MP2B	Z	0	6.25
30	MP2B	Mx	-.225	6.25
31	MP2C	X	-199.935	2.75
32	MP2C	Z	0	2.75
33	MP2C	Mx	.053	2.75
34	MP2C	X	-199.935	6.25
35	MP2C	Z	0	6.25
36	MP2C	Mx	.053	6.25
37	MP3A	X	-39.828	3.5
38	MP3A	Z	0	3.5
39	MP3A	Mx	.02	3.5
40	MP3A	X	-39.828	5.5
41	MP3A	Z	0	5.5
42	MP3A	Mx	.02	5.5
43	MP3B	X	-65.405	3.5
44	MP3B	Z	0	3.5
45	MP3B	Mx	-.025	3.5
46	MP3B	X	-65.405	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
47	MP3B	Z	0	5.5
48	MP3B	Mx	-.025	5.5
49	MP3C	X	-86.256	3.5
50	MP3C	Z	0	3.5
51	MP3C	Mx	-.022	3.5
52	MP3C	X	-86.256	5.5
53	MP3C	Z	0	5.5
54	MP3C	Mx	-.022	5.5
55	MP4A	X	-116.802	2.75
56	MP4A	Z	0	2.75
57	MP4A	Mx	.078	2.75
58	MP4A	X	-116.802	6.25
59	MP4A	Z	0	6.25
60	MP4A	Mx	.078	6.25
61	MP4B	X	-141.519	2.75
62	MP4B	Z	0	2.75
63	MP4B	Mx	-.072	2.75
64	MP4B	X	-141.519	6.25
65	MP4B	Z	0	6.25
66	MP4B	Mx	-.072	6.25
67	MP4C	X	-161.668	2.75
68	MP4C	Z	0	2.75
69	MP4C	Mx	-.054	2.75
70	MP4C	X	-161.668	6.25
71	MP4C	Z	0	6.25
72	MP4C	Mx	-.054	6.25
73	MP2A	X	-54.113	2
74	MP2A	Z	0	2
75	MP2A	Mx	-.027	2
76	MP2B	X	-65.202	2
77	MP2B	Z	0	2
78	MP2B	Mx	.025	2
79	MP2C	X	-74.243	2
80	MP2C	Z	0	2
81	MP2C	Mx	.019	2
82	MP1A	X	-49.243	2
83	MP1A	Z	0	2
84	MP1A	Mx	.025	2
85	MP1B	X	-62.344	2
86	MP1B	Z	0	2
87	MP1B	Mx	-.024	2
88	MP1C	X	-73.025	2
89	MP1C	Z	0	2
90	MP1C	Mx	-.018	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-149.417	2.75
2	MP2A	Z	-86.266	2.75
3	MP2A	Mx	.065	2.75
4	MP2A	X	-149.417	6.25
5	MP2A	Z	-86.266	6.25
6	MP2A	Mx	.065	6.25
7	MP2B	X	-179.463	2.75
8	MP2B	Z	-103.613	2.75
9	MP2B	Mx	.097	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
10	MP2B	X	-179.463	6.25
11	MP2B	Z	-103.613	6.25
12	MP2B	Mx	.097	6.25
13	MP2C	X	-149.417	2.75
14	MP2C	Z	-86.266	2.75
15	MP2C	Mx	-.209	2.75
16	MP2C	X	-149.417	6.25
17	MP2C	Z	-86.266	6.25
18	MP2C	Mx	-.209	6.25
19	MP2A	X	-149.417	2.75
20	MP2A	Z	-86.266	2.75
21	MP2A	Mx	.209	2.75
22	MP2A	X	-149.417	6.25
23	MP2A	Z	-86.266	6.25
24	MP2A	Mx	.209	6.25
25	MP2B	X	-179.463	2.75
26	MP2B	Z	-103.613	2.75
27	MP2B	Mx	-.227	2.75
28	MP2B	X	-179.463	6.25
29	MP2B	Z	-103.613	6.25
30	MP2B	Mx	-.227	6.25
31	MP2C	X	-149.417	2.75
32	MP2C	Z	-86.266	2.75
33	MP2C	Mx	-.065	2.75
34	MP2C	X	-149.417	6.25
35	MP2C	Z	-86.266	6.25
36	MP2C	Mx	-.065	6.25
37	MP3A	X	-47.895	3.5
38	MP3A	Z	-27.652	3.5
39	MP3A	Mx	.024	3.5
40	MP3A	X	-47.895	5.5
41	MP3A	Z	-27.652	5.5
42	MP3A	Mx	.024	5.5
43	MP3B	X	-81.831	3.5
44	MP3B	Z	-47.245	3.5
45	MP3B	Mx	-.016	3.5
46	MP3B	X	-81.831	5.5
47	MP3B	Z	-47.245	5.5
48	MP3B	Mx	-.016	5.5
49	MP3C	X	-47.895	3.5
50	MP3C	Z	-27.652	3.5
51	MP3C	Mx	-.024	3.5
52	MP3C	X	-47.895	5.5
53	MP3C	Z	-27.652	5.5
54	MP3C	Mx	-.024	5.5
55	MP4A	X	-114.106	2.75
56	MP4A	Z	-65.879	2.75
57	MP4A	Mx	.076	2.75
58	MP4A	X	-114.106	6.25
59	MP4A	Z	-65.879	6.25
60	MP4A	Mx	.076	6.25
61	MP4B	X	-146.9	2.75
62	MP4B	Z	-84.813	2.75
63	MP4B	Mx	-.039	2.75
64	MP4B	X	-146.9	6.25
65	MP4B	Z	-84.813	6.25
66	MP4B	Mx	-.039	6.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
67	MP4C	X	-114.106	2.75
68	MP4C	Z	-65.879	2.75
69	MP4C	Mx	-.076	2.75
70	MP4C	X	-114.106	6.25
71	MP4C	Z	-65.879	6.25
72	MP4C	Mx	-.076	6.25
73	MP2A	X	-52.674	2
74	MP2A	Z	-30.411	2
75	MP2A	Mx	-.026	2
76	MP2B	X	-67.388	2
77	MP2B	Z	-38.906	2
78	MP2B	Mx	.013	2
79	MP2C	X	-52.674	2
80	MP2C	Z	-30.411	2
81	MP2C	Mx	.026	2
82	MP1A	X	-49.511	2
83	MP1A	Z	-28.585	2
84	MP1A	Mx	.025	2
85	MP1B	X	-66.895	2
86	MP1B	Z	-38.622	2
87	MP1B	Mx	-.013	2
88	MP1C	X	-49.511	2
89	MP1C	Z	-28.585	2
90	MP1C	Mx	-.025	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-99.968	2.75
2	MP2A	Z	-173.149	2.75
3	MP2A	Mx	-.053	2.75
4	MP2A	X	-99.968	6.25
5	MP2A	Z	-173.149	6.25
6	MP2A	Mx	-.053	6.25
7	MP2B	X	-105.992	2.75
8	MP2B	Z	-183.584	2.75
9	MP2B	Mx	.208	2.75
10	MP2B	X	-105.992	6.25
11	MP2B	Z	-183.584	6.25
12	MP2B	Mx	.208	6.25
13	MP2C	X	-79.415	2.75
14	MP2C	Z	-137.551	2.75
15	MP2C	Mx	-.146	2.75
16	MP2C	X	-79.415	6.25
17	MP2C	Z	-137.551	6.25
18	MP2C	Mx	-.146	6.25
19	MP2A	X	-99.968	2.75
20	MP2A	Z	-173.149	2.75
21	MP2A	Mx	.236	2.75
22	MP2A	X	-99.968	6.25
23	MP2A	Z	-173.149	6.25
24	MP2A	Mx	.236	6.25
25	MP2B	X	-105.992	2.75
26	MP2B	Z	-183.584	2.75
27	MP2B	Mx	-.14	2.75
28	MP2B	X	-105.992	6.25
29	MP2B	Z	-183.584	6.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP2B	Mx	-.14	6.25
31	MP2C	X	-79.415	2.75
32	MP2C	Z	-137.551	2.75
33	MP2C	Mx	-.146	2.75
34	MP2C	X	-79.415	6.25
35	MP2C	Z	-137.551	6.25
36	MP2C	Mx	-.146	6.25
37	MP3A	X	-43.128	3.5
38	MP3A	Z	-74.7	3.5
39	MP3A	Mx	.022	3.5
40	MP3A	X	-43.128	5.5
41	MP3A	Z	-74.7	5.5
42	MP3A	Mx	.022	5.5
43	MP3B	X	-49.933	3.5
44	MP3B	Z	-86.486	3.5
45	MP3B	Mx	.009	3.5
46	MP3B	X	-49.933	5.5
47	MP3B	Z	-86.486	5.5
48	MP3B	Mx	.009	5.5
49	MP3C	X	-19.914	3.5
50	MP3C	Z	-34.492	3.5
51	MP3C	Mx	-.02	3.5
52	MP3C	X	-19.914	5.5
53	MP3C	Z	-34.492	5.5
54	MP3C	Mx	-.02	5.5
55	MP4A	X	-80.834	2.75
56	MP4A	Z	-140.009	2.75
57	MP4A	Mx	.054	2.75
58	MP4A	X	-80.834	6.25
59	MP4A	Z	-140.009	6.25
60	MP4A	Mx	.054	6.25
61	MP4B	X	-87.41	2.75
62	MP4B	Z	-151.398	2.75
63	MP4B	Mx	.02	2.75
64	MP4B	X	-87.41	6.25
65	MP4B	Z	-151.398	6.25
66	MP4B	Mx	.02	6.25
67	MP4C	X	-58.401	2.75
68	MP4C	Z	-101.154	2.75
69	MP4C	Mx	-.078	2.75
70	MP4C	X	-58.401	6.25
71	MP4C	Z	-101.154	6.25
72	MP4C	Mx	-.078	6.25
73	MP2A	X	-37.121	2
74	MP2A	Z	-64.296	2
75	MP2A	Mx	-.019	2
76	MP2B	X	-40.072	2
77	MP2B	Z	-69.406	2
78	MP2B	Mx	-.007	2
79	MP2C	X	-27.056	2
80	MP2C	Z	-46.863	2
81	MP2C	Mx	.027	2
82	MP1A	X	-36.513	2
83	MP1A	Z	-63.242	2
84	MP1A	Mx	.018	2
85	MP1B	X	-39.998	2
86	MP1B	Z	-69.279	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
87	MP1B	Mx	.007	2
88	MP1C	X	-24.621	2
89	MP1C	Z	-42.645	2
90	MP1C	Mx	-.025	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	2.75
2	MP2A	Z	-37.798	2.75
3	MP2A	Mx	-.031	2.75
4	MP2A	X	0	6.25
5	MP2A	Z	-37.798	6.25
6	MP2A	Mx	-.031	6.25
7	MP2B	X	0	2.75
8	MP2B	Z	-33.99	2.75
9	MP2B	Mx	.042	2.75
10	MP2B	X	0	6.25
11	MP2B	Z	-33.99	6.25
12	MP2B	Mx	.042	6.25
13	MP2C	X	0	2.75
14	MP2C	Z	-30.886	2.75
15	MP2C	Mx	-.012	2.75
16	MP2C	X	0	6.25
17	MP2C	Z	-30.886	6.25
18	MP2C	Mx	-.012	6.25
19	MP2A	X	0	2.75
20	MP2A	Z	-37.798	2.75
21	MP2A	Mx	.031	2.75
22	MP2A	X	0	6.25
23	MP2A	Z	-37.798	6.25
24	MP2A	Mx	.031	6.25
25	MP2B	X	0	2.75
26	MP2B	Z	-33.99	2.75
27	MP2B	Mx	-.002	2.75
28	MP2B	X	0	6.25
29	MP2B	Z	-33.99	6.25
30	MP2B	Mx	-.002	6.25
31	MP2C	X	0	2.75
32	MP2C	Z	-30.886	2.75
33	MP2C	Mx	-.037	2.75
34	MP2C	X	0	6.25
35	MP2C	Z	-30.886	6.25
36	MP2C	Mx	-.037	6.25
37	MP3A	X	0	3.5
38	MP3A	Z	-18.632	3.5
39	MP3A	Mx	0	3.5
40	MP3A	X	0	5.5
41	MP3A	Z	-18.632	5.5
42	MP3A	Mx	0	5.5
43	MP3B	X	0	3.5
44	MP3B	Z	-14.206	3.5
45	MP3B	Mx	.005	3.5
46	MP3B	X	0	5.5
47	MP3B	Z	-14.206	5.5
48	MP3B	Mx	.005	5.5
49	MP3C	X	0	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
50	MP3C	Z	-10.598	3.5
51	MP3C	Mx	-.005	3.5
52	MP3C	X	0	5.5
53	MP3C	Z	-10.598	5.5
54	MP3C	Mx	-.005	5.5
55	MP4A	X	0	2.75
56	MP4A	Z	-31.592	2.75
57	MP4A	Mx	0	2.75
58	MP4A	X	0	6.25
59	MP4A	Z	-31.592	6.25
60	MP4A	Mx	0	6.25
61	MP4B	X	0	2.75
62	MP4B	Z	-27.533	2.75
63	MP4B	Mx	.012	2.75
64	MP4B	X	0	6.25
65	MP4B	Z	-27.533	6.25
66	MP4B	Mx	.012	6.25
67	MP4C	X	0	2.75
68	MP4C	Z	-24.223	2.75
69	MP4C	Mx	-.014	2.75
70	MP4C	X	0	6.25
71	MP4C	Z	-24.223	6.25
72	MP4C	Mx	-.014	6.25
73	MP2A	X	0	2
74	MP2A	Z	-15.682	2
75	MP2A	Mx	0	2
76	MP2B	X	0	2
77	MP2B	Z	-13.705	2
78	MP2B	Mx	-.004	2
79	MP2C	X	0	2
80	MP2C	Z	-12.094	2
81	MP2C	Mx	.005	2
82	MP1A	X	0	2
83	MP1A	Z	-15.682	2
84	MP1A	Mx	0	2
85	MP1B	X	0	2
86	MP1B	Z	-13.35	2
87	MP1B	Mx	.004	2
88	MP1C	X	0	2
89	MP1C	Z	-11.448	2
90	MP1C	Mx	-.005	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	17.747	2.75
2	MP2A	Z	-30.739	2.75
3	MP2A	Mx	-.042	2.75
4	MP2A	X	17.747	6.25
5	MP2A	Z	-30.739	6.25
6	MP2A	Mx	-.042	6.25
7	MP2B	X	14.83	2.75
8	MP2B	Z	-25.686	2.75
9	MP2B	Mx	.034	2.75
10	MP2B	X	14.83	6.25
11	MP2B	Z	-25.686	6.25
12	MP2B	Mx	.034	6.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP2C	X	17.747	2.75
14	MP2C	Z	-30.739	2.75
15	MP2C	Mx	.009	2.75
16	MP2C	X	17.747	6.25
17	MP2C	Z	-30.739	6.25
18	MP2C	Mx	.009	6.25
19	MP2A	X	17.747	2.75
20	MP2A	Z	-30.739	2.75
21	MP2A	Mx	.009	2.75
22	MP2A	X	17.747	6.25
23	MP2A	Z	-30.739	6.25
24	MP2A	Mx	.009	6.25
25	MP2B	X	14.83	2.75
26	MP2B	Z	-25.686	2.75
27	MP2B	Mx	.017	2.75
28	MP2B	X	14.83	6.25
29	MP2B	Z	-25.686	6.25
30	MP2B	Mx	.017	6.25
31	MP2C	X	17.747	2.75
32	MP2C	Z	-30.739	2.75
33	MP2C	Mx	-.042	2.75
34	MP2C	X	17.747	6.25
35	MP2C	Z	-30.739	6.25
36	MP2C	Mx	-.042	6.25
37	MP3A	X	7.977	3.5
38	MP3A	Z	-13.817	3.5
39	MP3A	Mx	-.004	3.5
40	MP3A	X	7.977	5.5
41	MP3A	Z	-13.817	5.5
42	MP3A	Mx	-.004	5.5
43	MP3B	X	4.587	3.5
44	MP3B	Z	-7.944	3.5
45	MP3B	Mx	.004	3.5
46	MP3B	X	4.587	5.5
47	MP3B	Z	-7.944	5.5
48	MP3B	Mx	.004	5.5
49	MP3C	X	7.977	3.5
50	MP3C	Z	-13.817	3.5
51	MP3C	Mx	-.004	3.5
52	MP3C	X	7.977	5.5
53	MP3C	Z	-13.817	5.5
54	MP3C	Mx	-.004	5.5
55	MP4A	X	14.568	2.75
56	MP4A	Z	-25.233	2.75
57	MP4A	Mx	-.01	2.75
58	MP4A	X	14.568	6.25
59	MP4A	Z	-25.233	6.25
60	MP4A	Mx	-.01	6.25
61	MP4B	X	11.458	2.75
62	MP4B	Z	-19.846	2.75
63	MP4B	Mx	.014	2.75
64	MP4B	X	11.458	6.25
65	MP4B	Z	-19.846	6.25
66	MP4B	Mx	.014	6.25
67	MP4C	X	14.568	2.75
68	MP4C	Z	-25.233	2.75
69	MP4C	Mx	-.01	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
70	MP4C	X	14.568	6.25
71	MP4C	Z	-25.233	6.25
72	MP4C	Mx	-.01	6.25
73	MP2A	X	7.243	2
74	MP2A	Z	-12.545	2
75	MP2A	Mx	.004	2
76	MP2B	X	5.729	2
77	MP2B	Z	-9.922	2
78	MP2B	Mx	-.005	2
79	MP2C	X	7.243	2
80	MP2C	Z	-12.545	2
81	MP2C	Mx	.004	2
82	MP1A	X	7.135	2
83	MP1A	Z	-12.359	2
84	MP1A	Mx	-.004	2
85	MP1B	X	5.349	2
86	MP1B	Z	-9.264	2
87	MP1B	Mx	.005	2
88	MP1C	X	7.135	2
89	MP1C	Z	-12.359	2
90	MP1C	Mx	-.004	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	26.748	2.75
2	MP2A	Z	-15.443	2.75
3	MP2A	Mx	-.037	2.75
4	MP2A	X	26.748	6.25
5	MP2A	Z	-15.443	6.25
6	MP2A	Mx	-.037	6.25
7	MP2B	X	24.993	2.75
8	MP2B	Z	-14.43	2.75
9	MP2B	Mx	.022	2.75
10	MP2B	X	24.993	6.25
11	MP2B	Z	-14.43	6.25
12	MP2B	Mx	.022	6.25
13	MP2C	X	32.734	2.75
14	MP2C	Z	-18.899	2.75
15	MP2C	Mx	.031	2.75
16	MP2C	X	32.734	6.25
17	MP2C	Z	-18.899	6.25
18	MP2C	Mx	.031	6.25
19	MP2A	X	26.748	2.75
20	MP2A	Z	-15.443	2.75
21	MP2A	Mx	-.012	2.75
22	MP2A	X	26.748	6.25
23	MP2A	Z	-15.443	6.25
24	MP2A	Mx	-.012	6.25
25	MP2B	X	24.993	2.75
26	MP2B	Z	-14.43	2.75
27	MP2B	Mx	.03	2.75
28	MP2B	X	24.993	6.25
29	MP2B	Z	-14.43	6.25
30	MP2B	Mx	.03	6.25
31	MP2C	X	32.734	2.75
32	MP2C	Z	-18.899	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
33	MP2C	Mx	-.031	2.75
34	MP2C	X	32.734	6.25
35	MP2C	Z	-18.899	6.25
36	MP2C	Mx	-.031	6.25
37	MP3A	X	9.178	3.5
38	MP3A	Z	-5.299	3.5
39	MP3A	Mx	-.005	3.5
40	MP3A	X	9.178	5.5
41	MP3A	Z	-5.299	5.5
42	MP3A	Mx	-.005	5.5
43	MP3B	X	7.139	3.5
44	MP3B	Z	-4.122	3.5
45	MP3B	Mx	.004	3.5
46	MP3B	X	7.139	5.5
47	MP3B	Z	-4.122	5.5
48	MP3B	Mx	.004	5.5
49	MP3C	X	16.136	3.5
50	MP3C	Z	-9.316	3.5
51	MP3C	Mx	0	3.5
52	MP3C	X	16.136	5.5
53	MP3C	Z	-9.316	5.5
54	MP3C	Mx	0	5.5
55	MP4A	X	20.978	2.75
56	MP4A	Z	-12.112	2.75
57	MP4A	Mx	-.014	2.75
58	MP4A	X	20.978	6.25
59	MP4A	Z	-12.112	6.25
60	MP4A	Mx	-.014	6.25
61	MP4B	X	19.107	2.75
62	MP4B	Z	-11.032	2.75
63	MP4B	Mx	.014	2.75
64	MP4B	X	19.107	6.25
65	MP4B	Z	-11.032	6.25
66	MP4B	Mx	.014	6.25
67	MP4C	X	27.36	2.75
68	MP4C	Z	-15.796	2.75
69	MP4C	Mx	0	2.75
70	MP4C	X	27.36	6.25
71	MP4C	Z	-15.796	6.25
72	MP4C	Mx	0	6.25
73	MP2A	X	10.474	2
74	MP2A	Z	-6.047	2
75	MP2A	Mx	.005	2
76	MP2B	X	9.563	2
77	MP2B	Z	-5.521	2
78	MP2B	Mx	-.005	2
79	MP2C	X	13.581	2
80	MP2C	Z	-7.841	2
81	MP2C	Mx	0	2
82	MP1A	X	9.914	2
83	MP1A	Z	-5.724	2
84	MP1A	Mx	-.005	2
85	MP1B	X	8.839	2
86	MP1B	Z	-5.103	2
87	MP1B	Mx	.005	2
88	MP1C	X	13.581	2
89	MP1C	Z	-7.841	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
90	MP1C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	28.582	2.75
2	MP2A	Z	0	2.75
3	MP2A	Mx	-.026	2.75
4	MP2A	X	28.582	6.25
5	MP2A	Z	0	6.25
6	MP2A	Mx	-.026	6.25
7	MP2B	X	32.39	2.75
8	MP2B	Z	0	2.75
9	MP2B	Mx	.005	2.75
10	MP2B	X	32.39	6.25
11	MP2B	Z	0	6.25
12	MP2B	Mx	.005	6.25
13	MP2C	X	35.494	2.75
14	MP2C	Z	0	2.75
15	MP2C	Mx	.042	2.75
16	MP2C	X	35.494	6.25
17	MP2C	Z	0	6.25
18	MP2C	Mx	.042	6.25
19	MP2A	X	28.582	2.75
20	MP2A	Z	0	2.75
21	MP2A	Mx	-.026	2.75
22	MP2A	X	28.582	6.25
23	MP2A	Z	0	6.25
24	MP2A	Mx	-.026	6.25
25	MP2B	X	32.39	2.75
26	MP2B	Z	0	2.75
27	MP2B	Mx	.04	2.75
28	MP2B	X	32.39	6.25
29	MP2B	Z	0	6.25
30	MP2B	Mx	.04	6.25
31	MP2C	X	35.494	2.75
32	MP2C	Z	0	2.75
33	MP2C	Mx	-.009	2.75
34	MP2C	X	35.494	6.25
35	MP2C	Z	0	6.25
36	MP2C	Mx	-.009	6.25
37	MP3A	X	7.92	3.5
38	MP3A	Z	0	3.5
39	MP3A	Mx	-.004	3.5
40	MP3A	X	7.92	5.5
41	MP3A	Z	0	5.5
42	MP3A	Mx	-.004	5.5
43	MP3B	X	12.346	3.5
44	MP3B	Z	0	3.5
45	MP3B	Mx	.005	3.5
46	MP3B	X	12.346	5.5
47	MP3B	Z	0	5.5
48	MP3B	Mx	.005	5.5
49	MP3C	X	15.954	3.5
50	MP3C	Z	0	3.5
51	MP3C	Mx	.004	3.5
52	MP3C	X	15.954	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP3C	Z	0	5.5
54	MP3C	Mx	.004	5.5
55	MP4A	X	21.767	2.75
56	MP4A	Z	0	2.75
57	MP4A	Mx	-.015	2.75
58	MP4A	X	21.767	6.25
59	MP4A	Z	0	6.25
60	MP4A	Mx	-.015	6.25
61	MP4B	X	25.827	2.75
62	MP4B	Z	0	2.75
63	MP4B	Mx	.013	2.75
64	MP4B	X	25.827	6.25
65	MP4B	Z	0	6.25
66	MP4B	Mx	.013	6.25
67	MP4C	X	29.136	2.75
68	MP4C	Z	0	2.75
69	MP4C	Mx	.01	2.75
70	MP4C	X	29.136	6.25
71	MP4C	Z	0	6.25
72	MP4C	Mx	.01	6.25
73	MP2A	X	10.898	2
74	MP2A	Z	0	2
75	MP2A	Mx	.005	2
76	MP2B	X	12.875	2
77	MP2B	Z	0	2
78	MP2B	Mx	-.005	2
79	MP2C	X	14.486	2
80	MP2C	Z	0	2
81	MP2C	Mx	-.004	2
82	MP1A	X	10.037	2
83	MP1A	Z	0	2
84	MP1A	Mx	-.005	2
85	MP1B	X	12.369	2
86	MP1B	Z	0	2
87	MP1B	Mx	.005	2
88	MP1C	X	14.271	2
89	MP1C	Z	0	2
90	MP1C	Mx	.004	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	26.748	2.75
2	MP2A	Z	15.443	2.75
3	MP2A	Mx	-.012	2.75
4	MP2A	X	26.748	6.25
5	MP2A	Z	15.443	6.25
6	MP2A	Mx	-.012	6.25
7	MP2B	X	31.8	2.75
8	MP2B	Z	18.36	2.75
9	MP2B	Mx	-.017	2.75
10	MP2B	X	31.8	6.25
11	MP2B	Z	18.36	6.25
12	MP2B	Mx	-.017	6.25
13	MP2C	X	26.748	2.75
14	MP2C	Z	15.443	2.75
15	MP2C	Mx	.037	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP2C	X	26.748	6.25
17	MP2C	Z	15.443	6.25
18	MP2C	Mx	.037	6.25
19	MP2A	X	26.748	2.75
20	MP2A	Z	15.443	2.75
21	MP2A	Mx	-.037	2.75
22	MP2A	X	26.748	6.25
23	MP2A	Z	15.443	6.25
24	MP2A	Mx	-.037	6.25
25	MP2B	X	31.8	2.75
26	MP2B	Z	18.36	2.75
27	MP2B	Mx	.04	2.75
28	MP2B	X	31.8	6.25
29	MP2B	Z	18.36	6.25
30	MP2B	Mx	.04	6.25
31	MP2C	X	26.748	2.75
32	MP2C	Z	15.443	2.75
33	MP2C	Mx	.012	2.75
34	MP2C	X	26.748	6.25
35	MP2C	Z	15.443	6.25
36	MP2C	Mx	.012	6.25
37	MP3A	X	9.178	3.5
38	MP3A	Z	5.299	3.5
39	MP3A	Mx	-.005	3.5
40	MP3A	X	9.178	5.5
41	MP3A	Z	5.299	5.5
42	MP3A	Mx	-.005	5.5
43	MP3B	X	15.051	3.5
44	MP3B	Z	8.69	3.5
45	MP3B	Mx	.003	3.5
46	MP3B	X	15.051	5.5
47	MP3B	Z	8.69	5.5
48	MP3B	Mx	.003	5.5
49	MP3C	X	9.178	3.5
50	MP3C	Z	5.299	3.5
51	MP3C	Mx	.005	3.5
52	MP3C	X	9.178	5.5
53	MP3C	Z	5.299	5.5
54	MP3C	Mx	.005	5.5
55	MP4A	X	20.978	2.75
56	MP4A	Z	12.112	2.75
57	MP4A	Mx	-.014	2.75
58	MP4A	X	20.978	6.25
59	MP4A	Z	12.112	6.25
60	MP4A	Mx	-.014	6.25
61	MP4B	X	26.364	2.75
62	MP4B	Z	15.222	2.75
63	MP4B	Mx	.007	2.75
64	MP4B	X	26.364	6.25
65	MP4B	Z	15.222	6.25
66	MP4B	Mx	.007	6.25
67	MP4C	X	20.978	2.75
68	MP4C	Z	12.112	2.75
69	MP4C	Mx	.014	2.75
70	MP4C	X	20.978	6.25
71	MP4C	Z	12.112	6.25
72	MP4C	Mx	.014	6.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP2A	X	10.474	2
74	MP2A	Z	6.047	2
75	MP2A	Mx	.005	2
76	MP2B	X	13.096	2
77	MP2B	Z	7.561	2
78	MP2B	Mx	-.003	2
79	MP2C	X	10.474	2
80	MP2C	Z	6.047	2
81	MP2C	Mx	-.005	2
82	MP1A	X	9.914	2
83	MP1A	Z	5.724	2
84	MP1A	Mx	-.005	2
85	MP1B	X	13.009	2
86	MP1B	Z	7.511	2
87	MP1B	Mx	.003	2
88	MP1C	X	9.914	2
89	MP1C	Z	5.724	2
90	MP1C	Mx	.005	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	17.747	2.75
2	MP2A	Z	30.739	2.75
3	MP2A	Mx	.009	2.75
4	MP2A	X	17.747	6.25
5	MP2A	Z	30.739	6.25
6	MP2A	Mx	.009	6.25
7	MP2B	X	18.76	2.75
8	MP2B	Z	32.493	2.75
9	MP2B	Mx	-.037	2.75
10	MP2B	X	18.76	6.25
11	MP2B	Z	32.493	6.25
12	MP2B	Mx	-.037	6.25
13	MP2C	X	14.291	2.75
14	MP2C	Z	24.752	2.75
15	MP2C	Mx	.026	2.75
16	MP2C	X	14.291	6.25
17	MP2C	Z	24.752	6.25
18	MP2C	Mx	.026	6.25
19	MP2A	X	17.747	2.75
20	MP2A	Z	30.739	2.75
21	MP2A	Mx	-.042	2.75
22	MP2A	X	17.747	6.25
23	MP2A	Z	30.739	6.25
24	MP2A	Mx	-.042	6.25
25	MP2B	X	18.76	2.75
26	MP2B	Z	32.493	2.75
27	MP2B	Mx	.025	2.75
28	MP2B	X	18.76	6.25
29	MP2B	Z	32.493	6.25
30	MP2B	Mx	.025	6.25
31	MP2C	X	14.291	2.75
32	MP2C	Z	24.752	2.75
33	MP2C	Mx	.026	2.75
34	MP2C	X	14.291	6.25
35	MP2C	Z	24.752	6.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
36	MP2C	Mx	.026	6.25
37	MP3A	X	7.977	3.5
38	MP3A	Z	13.817	3.5
39	MP3A	Mx	-.004	3.5
40	MP3A	X	7.977	5.5
41	MP3A	Z	13.817	5.5
42	MP3A	Mx	-.004	5.5
43	MP3B	X	9.155	3.5
44	MP3B	Z	15.856	3.5
45	MP3B	Mx	-.002	3.5
46	MP3B	X	9.155	5.5
47	MP3B	Z	15.856	5.5
48	MP3B	Mx	-.002	5.5
49	MP3C	X	3.96	3.5
50	MP3C	Z	6.859	3.5
51	MP3C	Mx	.004	3.5
52	MP3C	X	3.96	5.5
53	MP3C	Z	6.859	5.5
54	MP3C	Mx	.004	5.5
55	MP4A	X	14.568	2.75
56	MP4A	Z	25.233	2.75
57	MP4A	Mx	-.01	2.75
58	MP4A	X	14.568	6.25
59	MP4A	Z	25.233	6.25
60	MP4A	Mx	-.01	6.25
61	MP4B	X	15.648	2.75
62	MP4B	Z	27.103	2.75
63	MP4B	Mx	-.004	2.75
64	MP4B	X	15.648	6.25
65	MP4B	Z	27.103	6.25
66	MP4B	Mx	-.004	6.25
67	MP4C	X	10.883	2.75
68	MP4C	Z	18.851	2.75
69	MP4C	Mx	.015	2.75
70	MP4C	X	10.883	6.25
71	MP4C	Z	18.851	6.25
72	MP4C	Mx	.015	6.25
73	MP2A	X	7.243	2
74	MP2A	Z	12.545	2
75	MP2A	Mx	.004	2
76	MP2B	X	7.769	2
77	MP2B	Z	13.456	2
78	MP2B	Mx	.001	2
79	MP2C	X	5.449	2
80	MP2C	Z	9.438	2
81	MP2C	Mx	-.005	2
82	MP1A	X	7.135	2
83	MP1A	Z	12.359	2
84	MP1A	Mx	-.004	2
85	MP1B	X	7.756	2
86	MP1B	Z	13.434	2
87	MP1B	Mx	-.001	2
88	MP1C	X	5.018	2
89	MP1C	Z	8.692	2
90	MP1C	Mx	.005	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	2.75
2	MP2A	Z	37.798	2.75
3	MP2A	Mx	.031	2.75
4	MP2A	X	0	6.25
5	MP2A	Z	37.798	6.25
6	MP2A	Mx	.031	6.25
7	MP2B	X	0	2.75
8	MP2B	Z	33.99	2.75
9	MP2B	Mx	-.042	2.75
10	MP2B	X	0	6.25
11	MP2B	Z	33.99	6.25
12	MP2B	Mx	-.042	6.25
13	MP2C	X	0	2.75
14	MP2C	Z	30.886	2.75
15	MP2C	Mx	.012	2.75
16	MP2C	X	0	6.25
17	MP2C	Z	30.886	6.25
18	MP2C	Mx	.012	6.25
19	MP2A	X	0	2.75
20	MP2A	Z	37.798	2.75
21	MP2A	Mx	-.031	2.75
22	MP2A	X	0	6.25
23	MP2A	Z	37.798	6.25
24	MP2A	Mx	-.031	6.25
25	MP2B	X	0	2.75
26	MP2B	Z	33.99	2.75
27	MP2B	Mx	.002	2.75
28	MP2B	X	0	6.25
29	MP2B	Z	33.99	6.25
30	MP2B	Mx	.002	6.25
31	MP2C	X	0	2.75
32	MP2C	Z	30.886	2.75
33	MP2C	Mx	.037	2.75
34	MP2C	X	0	6.25
35	MP2C	Z	30.886	6.25
36	MP2C	Mx	.037	6.25
37	MP3A	X	0	3.5
38	MP3A	Z	18.632	3.5
39	MP3A	Mx	0	3.5
40	MP3A	X	0	5.5
41	MP3A	Z	18.632	5.5
42	MP3A	Mx	0	5.5
43	MP3B	X	0	3.5
44	MP3B	Z	14.206	3.5
45	MP3B	Mx	-.005	3.5
46	MP3B	X	0	5.5
47	MP3B	Z	14.206	5.5
48	MP3B	Mx	-.005	5.5
49	MP3C	X	0	3.5
50	MP3C	Z	10.598	3.5
51	MP3C	Mx	.005	3.5
52	MP3C	X	0	5.5
53	MP3C	Z	10.598	5.5
54	MP3C	Mx	.005	5.5
55	MP4A	X	0	2.75
56	MP4A	Z	31.592	2.75
57	MP4A	Mx	0	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP4A	X	0	6.25
59	MP4A	Z	31.592	6.25
60	MP4A	Mx	0	6.25
61	MP4B	X	0	2.75
62	MP4B	Z	27.533	2.75
63	MP4B	Mx	-.012	2.75
64	MP4B	X	0	6.25
65	MP4B	Z	27.533	6.25
66	MP4B	Mx	-.012	6.25
67	MP4C	X	0	2.75
68	MP4C	Z	24.223	2.75
69	MP4C	Mx	.014	2.75
70	MP4C	X	0	6.25
71	MP4C	Z	24.223	6.25
72	MP4C	Mx	.014	6.25
73	MP2A	X	0	2
74	MP2A	Z	15.682	2
75	MP2A	Mx	0	2
76	MP2B	X	0	2
77	MP2B	Z	13.705	2
78	MP2B	Mx	.004	2
79	MP2C	X	0	2
80	MP2C	Z	12.094	2
81	MP2C	Mx	-.005	2
82	MP1A	X	0	2
83	MP1A	Z	15.682	2
84	MP1A	Mx	0	2
85	MP1B	X	0	2
86	MP1B	Z	13.35	2
87	MP1B	Mx	-.004	2
88	MP1C	X	0	2
89	MP1C	Z	11.448	2
90	MP1C	Mx	.005	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-17.747	2.75
2	MP2A	Z	30.739	2.75
3	MP2A	Mx	.042	2.75
4	MP2A	X	-17.747	6.25
5	MP2A	Z	30.739	6.25
6	MP2A	Mx	.042	6.25
7	MP2B	X	-14.83	2.75
8	MP2B	Z	25.686	2.75
9	MP2B	Mx	-.034	2.75
10	MP2B	X	-14.83	6.25
11	MP2B	Z	25.686	6.25
12	MP2B	Mx	-.034	6.25
13	MP2C	X	-17.747	2.75
14	MP2C	Z	30.739	2.75
15	MP2C	Mx	-.009	2.75
16	MP2C	X	-17.747	6.25
17	MP2C	Z	30.739	6.25
18	MP2C	Mx	-.009	6.25
19	MP2A	X	-17.747	2.75
20	MP2A	Z	30.739	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP2A	Mx	-.009	2.75
22	MP2A	X	-17.747	6.25
23	MP2A	Z	30.739	6.25
24	MP2A	Mx	-.009	6.25
25	MP2B	X	-14.83	2.75
26	MP2B	Z	25.686	2.75
27	MP2B	Mx	-.017	2.75
28	MP2B	X	-14.83	6.25
29	MP2B	Z	25.686	6.25
30	MP2B	Mx	-.017	6.25
31	MP2C	X	-17.747	2.75
32	MP2C	Z	30.739	2.75
33	MP2C	Mx	.042	2.75
34	MP2C	X	-17.747	6.25
35	MP2C	Z	30.739	6.25
36	MP2C	Mx	.042	6.25
37	MP3A	X	-7.977	3.5
38	MP3A	Z	13.817	3.5
39	MP3A	Mx	.004	3.5
40	MP3A	X	-7.977	5.5
41	MP3A	Z	13.817	5.5
42	MP3A	Mx	.004	5.5
43	MP3B	X	-4.587	3.5
44	MP3B	Z	7.944	3.5
45	MP3B	Mx	-.004	3.5
46	MP3B	X	-4.587	5.5
47	MP3B	Z	7.944	5.5
48	MP3B	Mx	-.004	5.5
49	MP3C	X	-7.977	3.5
50	MP3C	Z	13.817	3.5
51	MP3C	Mx	.004	3.5
52	MP3C	X	-7.977	5.5
53	MP3C	Z	13.817	5.5
54	MP3C	Mx	.004	5.5
55	MP4A	X	-14.568	2.75
56	MP4A	Z	25.233	2.75
57	MP4A	Mx	.01	2.75
58	MP4A	X	-14.568	6.25
59	MP4A	Z	25.233	6.25
60	MP4A	Mx	.01	6.25
61	MP4B	X	-11.458	2.75
62	MP4B	Z	19.846	2.75
63	MP4B	Mx	-.014	2.75
64	MP4B	X	-11.458	6.25
65	MP4B	Z	19.846	6.25
66	MP4B	Mx	-.014	6.25
67	MP4C	X	-14.568	2.75
68	MP4C	Z	25.233	2.75
69	MP4C	Mx	.01	2.75
70	MP4C	X	-14.568	6.25
71	MP4C	Z	25.233	6.25
72	MP4C	Mx	.01	6.25
73	MP2A	X	-7.243	2
74	MP2A	Z	12.545	2
75	MP2A	Mx	-.004	2
76	MP2B	X	-5.729	2
77	MP2B	Z	9.922	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
78	MP2B	Mx	.005	2
79	MP2C	X	-7.243	2
80	MP2C	Z	12.545	2
81	MP2C	Mx	-.004	2
82	MP1A	X	-7.135	2
83	MP1A	Z	12.359	2
84	MP1A	Mx	.004	2
85	MP1B	X	-5.349	2
86	MP1B	Z	9.264	2
87	MP1B	Mx	-.005	2
88	MP1C	X	-7.135	2
89	MP1C	Z	12.359	2
90	MP1C	Mx	.004	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-26.748	2.75
2	MP2A	Z	15.443	2.75
3	MP2A	Mx	.037	2.75
4	MP2A	X	-26.748	6.25
5	MP2A	Z	15.443	6.25
6	MP2A	Mx	.037	6.25
7	MP2B	X	-24.993	2.75
8	MP2B	Z	14.43	2.75
9	MP2B	Mx	-.022	2.75
10	MP2B	X	-24.993	6.25
11	MP2B	Z	14.43	6.25
12	MP2B	Mx	-.022	6.25
13	MP2C	X	-32.734	2.75
14	MP2C	Z	18.899	2.75
15	MP2C	Mx	-.031	2.75
16	MP2C	X	-32.734	6.25
17	MP2C	Z	18.899	6.25
18	MP2C	Mx	-.031	6.25
19	MP2A	X	-26.748	2.75
20	MP2A	Z	15.443	2.75
21	MP2A	Mx	.012	2.75
22	MP2A	X	-26.748	6.25
23	MP2A	Z	15.443	6.25
24	MP2A	Mx	.012	6.25
25	MP2B	X	-24.993	2.75
26	MP2B	Z	14.43	2.75
27	MP2B	Mx	-.03	2.75
28	MP2B	X	-24.993	6.25
29	MP2B	Z	14.43	6.25
30	MP2B	Mx	-.03	6.25
31	MP2C	X	-32.734	2.75
32	MP2C	Z	18.899	2.75
33	MP2C	Mx	.031	2.75
34	MP2C	X	-32.734	6.25
35	MP2C	Z	18.899	6.25
36	MP2C	Mx	.031	6.25
37	MP3A	X	-9.178	3.5
38	MP3A	Z	5.299	3.5
39	MP3A	Mx	.005	3.5
40	MP3A	X	-9.178	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
41	MP3A	Z	5.299	5.5
42	MP3A	Mx	.005	5.5
43	MP3B	X	-7.139	3.5
44	MP3B	Z	4.122	3.5
45	MP3B	Mx	-.004	3.5
46	MP3B	X	-7.139	5.5
47	MP3B	Z	4.122	5.5
48	MP3B	Mx	-.004	5.5
49	MP3C	X	-16.136	3.5
50	MP3C	Z	9.316	3.5
51	MP3C	Mx	0	3.5
52	MP3C	X	-16.136	5.5
53	MP3C	Z	9.316	5.5
54	MP3C	Mx	0	5.5
55	MP4A	X	-20.978	2.75
56	MP4A	Z	12.112	2.75
57	MP4A	Mx	.014	2.75
58	MP4A	X	-20.978	6.25
59	MP4A	Z	12.112	6.25
60	MP4A	Mx	.014	6.25
61	MP4B	X	-19.107	2.75
62	MP4B	Z	11.032	2.75
63	MP4B	Mx	-.014	2.75
64	MP4B	X	-19.107	6.25
65	MP4B	Z	11.032	6.25
66	MP4B	Mx	-.014	6.25
67	MP4C	X	-27.36	2.75
68	MP4C	Z	15.796	2.75
69	MP4C	Mx	0	2.75
70	MP4C	X	-27.36	6.25
71	MP4C	Z	15.796	6.25
72	MP4C	Mx	0	6.25
73	MP2A	X	-10.474	2
74	MP2A	Z	6.047	2
75	MP2A	Mx	-.005	2
76	MP2B	X	-9.563	2
77	MP2B	Z	5.521	2
78	MP2B	Mx	.005	2
79	MP2C	X	-13.581	2
80	MP2C	Z	7.841	2
81	MP2C	Mx	0	2
82	MP1A	X	-9.914	2
83	MP1A	Z	5.724	2
84	MP1A	Mx	.005	2
85	MP1B	X	-8.839	2
86	MP1B	Z	5.103	2
87	MP1B	Mx	-.005	2
88	MP1C	X	-13.581	2
89	MP1C	Z	7.841	2
90	MP1C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-28.582	2.75
2	MP2A	Z	0	2.75
3	MP2A	Mx	.026	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP2A	X	-28.582	6.25
5	MP2A	Z	0	6.25
6	MP2A	Mx	.026	6.25
7	MP2B	X	-32.39	2.75
8	MP2B	Z	0	2.75
9	MP2B	Mx	-.005	2.75
10	MP2B	X	-32.39	6.25
11	MP2B	Z	0	6.25
12	MP2B	Mx	-.005	6.25
13	MP2C	X	-35.494	2.75
14	MP2C	Z	0	2.75
15	MP2C	Mx	-.042	2.75
16	MP2C	X	-35.494	6.25
17	MP2C	Z	0	6.25
18	MP2C	Mx	-.042	6.25
19	MP2A	X	-28.582	2.75
20	MP2A	Z	0	2.75
21	MP2A	Mx	.026	2.75
22	MP2A	X	-28.582	6.25
23	MP2A	Z	0	6.25
24	MP2A	Mx	.026	6.25
25	MP2B	X	-32.39	2.75
26	MP2B	Z	0	2.75
27	MP2B	Mx	-.04	2.75
28	MP2B	X	-32.39	6.25
29	MP2B	Z	0	6.25
30	MP2B	Mx	-.04	6.25
31	MP2C	X	-35.494	2.75
32	MP2C	Z	0	2.75
33	MP2C	Mx	.009	2.75
34	MP2C	X	-35.494	6.25
35	MP2C	Z	0	6.25
36	MP2C	Mx	.009	6.25
37	MP3A	X	-7.92	3.5
38	MP3A	Z	0	3.5
39	MP3A	Mx	.004	3.5
40	MP3A	X	-7.92	5.5
41	MP3A	Z	0	5.5
42	MP3A	Mx	.004	5.5
43	MP3B	X	-12.346	3.5
44	MP3B	Z	0	3.5
45	MP3B	Mx	-.005	3.5
46	MP3B	X	-12.346	5.5
47	MP3B	Z	0	5.5
48	MP3B	Mx	-.005	5.5
49	MP3C	X	-15.954	3.5
50	MP3C	Z	0	3.5
51	MP3C	Mx	-.004	3.5
52	MP3C	X	-15.954	5.5
53	MP3C	Z	0	5.5
54	MP3C	Mx	-.004	5.5
55	MP4A	X	-21.767	2.75
56	MP4A	Z	0	2.75
57	MP4A	Mx	.015	2.75
58	MP4A	X	-21.767	6.25
59	MP4A	Z	0	6.25
60	MP4A	Mx	.015	6.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
61	MP4B	X	-25.827	2.75
62	MP4B	Z	0	2.75
63	MP4B	Mx	-.013	2.75
64	MP4B	X	-25.827	6.25
65	MP4B	Z	0	6.25
66	MP4B	Mx	-.013	6.25
67	MP4C	X	-29.136	2.75
68	MP4C	Z	0	2.75
69	MP4C	Mx	-.01	2.75
70	MP4C	X	-29.136	6.25
71	MP4C	Z	0	6.25
72	MP4C	Mx	-.01	6.25
73	MP2A	X	-10.898	2
74	MP2A	Z	0	2
75	MP2A	Mx	-.005	2
76	MP2B	X	-12.875	2
77	MP2B	Z	0	2
78	MP2B	Mx	.005	2
79	MP2C	X	-14.486	2
80	MP2C	Z	0	2
81	MP2C	Mx	.004	2
82	MP1A	X	-10.037	2
83	MP1A	Z	0	2
84	MP1A	Mx	.005	2
85	MP1B	X	-12.369	2
86	MP1B	Z	0	2
87	MP1B	Mx	-.005	2
88	MP1C	X	-14.271	2
89	MP1C	Z	0	2
90	MP1C	Mx	-.004	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-26.748	2.75
2	MP2A	Z	-15.443	2.75
3	MP2A	Mx	.012	2.75
4	MP2A	X	-26.748	6.25
5	MP2A	Z	-15.443	6.25
6	MP2A	Mx	.012	6.25
7	MP2B	X	-31.8	2.75
8	MP2B	Z	-18.36	2.75
9	MP2B	Mx	.017	2.75
10	MP2B	X	-31.8	6.25
11	MP2B	Z	-18.36	6.25
12	MP2B	Mx	.017	6.25
13	MP2C	X	-26.748	2.75
14	MP2C	Z	-15.443	2.75
15	MP2C	Mx	-.037	2.75
16	MP2C	X	-26.748	6.25
17	MP2C	Z	-15.443	6.25
18	MP2C	Mx	-.037	6.25
19	MP2A	X	-26.748	2.75
20	MP2A	Z	-15.443	2.75
21	MP2A	Mx	.037	2.75
22	MP2A	X	-26.748	6.25
23	MP2A	Z	-15.443	6.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
24	MP2A	Mx	.037	6.25
25	MP2B	X	-31.8	2.75
26	MP2B	Z	-18.36	2.75
27	MP2B	Mx	-.04	2.75
28	MP2B	X	-31.8	6.25
29	MP2B	Z	-18.36	6.25
30	MP2B	Mx	-.04	6.25
31	MP2C	X	-26.748	2.75
32	MP2C	Z	-15.443	2.75
33	MP2C	Mx	-.012	2.75
34	MP2C	X	-26.748	6.25
35	MP2C	Z	-15.443	6.25
36	MP2C	Mx	-.012	6.25
37	MP3A	X	-9.178	3.5
38	MP3A	Z	-5.299	3.5
39	MP3A	Mx	.005	3.5
40	MP3A	X	-9.178	5.5
41	MP3A	Z	-5.299	5.5
42	MP3A	Mx	.005	5.5
43	MP3B	X	-15.051	3.5
44	MP3B	Z	-8.69	3.5
45	MP3B	Mx	-.003	3.5
46	MP3B	X	-15.051	5.5
47	MP3B	Z	-8.69	5.5
48	MP3B	Mx	-.003	5.5
49	MP3C	X	-9.178	3.5
50	MP3C	Z	-5.299	3.5
51	MP3C	Mx	-.005	3.5
52	MP3C	X	-9.178	5.5
53	MP3C	Z	-5.299	5.5
54	MP3C	Mx	-.005	5.5
55	MP4A	X	-20.978	2.75
56	MP4A	Z	-12.112	2.75
57	MP4A	Mx	.014	2.75
58	MP4A	X	-20.978	6.25
59	MP4A	Z	-12.112	6.25
60	MP4A	Mx	.014	6.25
61	MP4B	X	-26.364	2.75
62	MP4B	Z	-15.222	2.75
63	MP4B	Mx	-.007	2.75
64	MP4B	X	-26.364	6.25
65	MP4B	Z	-15.222	6.25
66	MP4B	Mx	-.007	6.25
67	MP4C	X	-20.978	2.75
68	MP4C	Z	-12.112	2.75
69	MP4C	Mx	-.014	2.75
70	MP4C	X	-20.978	6.25
71	MP4C	Z	-12.112	6.25
72	MP4C	Mx	-.014	6.25
73	MP2A	X	-10.474	2
74	MP2A	Z	-6.047	2
75	MP2A	Mx	-.005	2
76	MP2B	X	-13.096	2
77	MP2B	Z	-7.561	2
78	MP2B	Mx	.003	2
79	MP2C	X	-10.474	2
80	MP2C	Z	-6.047	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
81	MP2C	Mx	.005	2
82	MP1A	X	-9.914	2
83	MP1A	Z	-5.724	2
84	MP1A	Mx	.005	2
85	MP1B	X	-13.009	2
86	MP1B	Z	-7.511	2
87	MP1B	Mx	-.003	2
88	MP1C	X	-9.914	2
89	MP1C	Z	-5.724	2
90	MP1C	Mx	-.005	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-17.747	2.75
2	MP2A	Z	-30.739	2.75
3	MP2A	Mx	-.009	2.75
4	MP2A	X	-17.747	6.25
5	MP2A	Z	-30.739	6.25
6	MP2A	Mx	-.009	6.25
7	MP2B	X	-18.76	2.75
8	MP2B	Z	-32.493	2.75
9	MP2B	Mx	.037	2.75
10	MP2B	X	-18.76	6.25
11	MP2B	Z	-32.493	6.25
12	MP2B	Mx	.037	6.25
13	MP2C	X	-14.291	2.75
14	MP2C	Z	-24.752	2.75
15	MP2C	Mx	-.026	2.75
16	MP2C	X	-14.291	6.25
17	MP2C	Z	-24.752	6.25
18	MP2C	Mx	-.026	6.25
19	MP2A	X	-17.747	2.75
20	MP2A	Z	-30.739	2.75
21	MP2A	Mx	.042	2.75
22	MP2A	X	-17.747	6.25
23	MP2A	Z	-30.739	6.25
24	MP2A	Mx	.042	6.25
25	MP2B	X	-18.76	2.75
26	MP2B	Z	-32.493	2.75
27	MP2B	Mx	-.025	2.75
28	MP2B	X	-18.76	6.25
29	MP2B	Z	-32.493	6.25
30	MP2B	Mx	-.025	6.25
31	MP2C	X	-14.291	2.75
32	MP2C	Z	-24.752	2.75
33	MP2C	Mx	-.026	2.75
34	MP2C	X	-14.291	6.25
35	MP2C	Z	-24.752	6.25
36	MP2C	Mx	-.026	6.25
37	MP3A	X	-7.977	3.5
38	MP3A	Z	-13.817	3.5
39	MP3A	Mx	.004	3.5
40	MP3A	X	-7.977	5.5
41	MP3A	Z	-13.817	5.5
42	MP3A	Mx	.004	5.5
43	MP3B	X	-9.155	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP3B	Z	-15.856	3.5
45	MP3B	Mx	.002	3.5
46	MP3B	X	-9.155	5.5
47	MP3B	Z	-15.856	5.5
48	MP3B	Mx	.002	5.5
49	MP3C	X	-3.96	3.5
50	MP3C	Z	-6.859	3.5
51	MP3C	Mx	-.004	3.5
52	MP3C	X	-3.96	5.5
53	MP3C	Z	-6.859	5.5
54	MP3C	Mx	-.004	5.5
55	MP4A	X	-14.568	2.75
56	MP4A	Z	-25.233	2.75
57	MP4A	Mx	.01	2.75
58	MP4A	X	-14.568	6.25
59	MP4A	Z	-25.233	6.25
60	MP4A	Mx	.01	6.25
61	MP4B	X	-15.648	2.75
62	MP4B	Z	-27.103	2.75
63	MP4B	Mx	.004	2.75
64	MP4B	X	-15.648	6.25
65	MP4B	Z	-27.103	6.25
66	MP4B	Mx	.004	6.25
67	MP4C	X	-10.883	2.75
68	MP4C	Z	-18.851	2.75
69	MP4C	Mx	-.015	2.75
70	MP4C	X	-10.883	6.25
71	MP4C	Z	-18.851	6.25
72	MP4C	Mx	-.015	6.25
73	MP2A	X	-7.243	2
74	MP2A	Z	-12.545	2
75	MP2A	Mx	-.004	2
76	MP2B	X	-7.769	2
77	MP2B	Z	-13.456	2
78	MP2B	Mx	-.001	2
79	MP2C	X	-5.449	2
80	MP2C	Z	-9.438	2
81	MP2C	Mx	.005	2
82	MP1A	X	-7.135	2
83	MP1A	Z	-12.359	2
84	MP1A	Mx	.004	2
85	MP1B	X	-7.756	2
86	MP1B	Z	-13.434	2
87	MP1B	Mx	.001	2
88	MP1C	X	-5.018	2
89	MP1C	Z	-8.692	2
90	MP1C	Mx	-.005	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	2.75
2	MP2A	Z	-12.505	2.75
3	MP2A	Mx	-.01	2.75
4	MP2A	X	0	6.25
5	MP2A	Z	-12.505	6.25
6	MP2A	Mx	-.01	6.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
7	MP2B	X	0	2.75
8	MP2B	Z	-11.179	2.75
9	MP2B	Mx	.014	2.75
10	MP2B	X	0	6.25
11	MP2B	Z	-11.179	6.25
12	MP2B	Mx	.014	6.25
13	MP2C	X	0	2.75
14	MP2C	Z	-10.099	2.75
15	MP2C	Mx	-.004	2.75
16	MP2C	X	0	6.25
17	MP2C	Z	-10.099	6.25
18	MP2C	Mx	-.004	6.25
19	MP2A	X	0	2.75
20	MP2A	Z	-12.505	2.75
21	MP2A	Mx	.01	2.75
22	MP2A	X	0	6.25
23	MP2A	Z	-12.505	6.25
24	MP2A	Mx	.01	6.25
25	MP2B	X	0	2.75
26	MP2B	Z	-11.179	2.75
27	MP2B	Mx	-.000549	2.75
28	MP2B	X	0	6.25
29	MP2B	Z	-11.179	6.25
30	MP2B	Mx	-.000549	6.25
31	MP2C	X	0	2.75
32	MP2C	Z	-10.099	2.75
33	MP2C	Mx	-.012	2.75
34	MP2C	X	0	6.25
35	MP2C	Z	-10.099	6.25
36	MP2C	Mx	-.012	6.25
37	MP3A	X	0	3.5
38	MP3A	Z	-5.955	3.5
39	MP3A	Mx	0	3.5
40	MP3A	X	0	5.5
41	MP3A	Z	-5.955	5.5
42	MP3A	Mx	0	5.5
43	MP3B	X	0	3.5
44	MP3B	Z	-4.458	3.5
45	MP3B	Mx	.001	3.5
46	MP3B	X	0	5.5
47	MP3B	Z	-4.458	5.5
48	MP3B	Mx	.001	5.5
49	MP3C	X	0	3.5
50	MP3C	Z	-3.237	3.5
51	MP3C	Mx	-.001	3.5
52	MP3C	X	0	5.5
53	MP3C	Z	-3.237	5.5
54	MP3C	Mx	-.001	5.5
55	MP4A	X	0	2.75
56	MP4A	Z	-10.338	2.75
57	MP4A	Mx	0	2.75
58	MP4A	X	0	6.25
59	MP4A	Z	-10.338	6.25
60	MP4A	Mx	0	6.25
61	MP4B	X	0	2.75
62	MP4B	Z	-8.892	2.75
63	MP4B	Mx	.004	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
64	MP4B	X	0	6.25
65	MP4B	Z	-8.892	6.25
66	MP4B	Mx	.004	6.25
67	MP4C	X	0	2.75
68	MP4C	Z	-7.712	2.75
69	MP4C	Mx	-.004	2.75
70	MP4C	X	0	6.25
71	MP4C	Z	-7.712	6.25
72	MP4C	Mx	-.004	6.25
73	MP2A	X	0	2
74	MP2A	Z	-4.738	2
75	MP2A	Mx	0	2
76	MP2B	X	0	2
77	MP2B	Z	-4.089	2
78	MP2B	Mx	-.001	2
79	MP2C	X	0	2
80	MP2C	Z	-3.56	2
81	MP2C	Mx	.002	2
82	MP1A	X	0	2
83	MP1A	Z	-4.738	2
84	MP1A	Mx	0	2
85	MP1B	X	0	2
86	MP1B	Z	-3.971	2
87	MP1B	Mx	.001	2
88	MP1C	X	0	2
89	MP1C	Z	-3.346	2
90	MP1C	Mx	-.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	5.851	2.75
2	MP2A	Z	-10.135	2.75
3	MP2A	Mx	-.014	2.75
4	MP2A	X	5.851	6.25
5	MP2A	Z	-10.135	6.25
6	MP2A	Mx	-.014	6.25
7	MP2B	X	4.836	2.75
8	MP2B	Z	-8.376	2.75
9	MP2B	Mx	.011	2.75
10	MP2B	X	4.836	6.25
11	MP2B	Z	-8.376	6.25
12	MP2B	Mx	.011	6.25
13	MP2C	X	5.851	2.75
14	MP2C	Z	-10.135	2.75
15	MP2C	Mx	.003	2.75
16	MP2C	X	5.851	6.25
17	MP2C	Z	-10.135	6.25
18	MP2C	Mx	.003	6.25
19	MP2A	X	5.851	2.75
20	MP2A	Z	-10.135	2.75
21	MP2A	Mx	.003	2.75
22	MP2A	X	5.851	6.25
23	MP2A	Z	-10.135	6.25
24	MP2A	Mx	.003	6.25
25	MP2B	X	4.836	2.75
26	MP2B	Z	-8.376	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP2B	Mx	.006	2.75
28	MP2B	X	4.836	6.25
29	MP2B	Z	-8.376	6.25
30	MP2B	Mx	.006	6.25
31	MP2C	X	5.851	2.75
32	MP2C	Z	-10.135	2.75
33	MP2C	Mx	-.014	2.75
34	MP2C	X	5.851	6.25
35	MP2C	Z	-10.135	6.25
36	MP2C	Mx	-.014	6.25
37	MP3A	X	2.524	3.5
38	MP3A	Z	-4.372	3.5
39	MP3A	Mx	-.001	3.5
40	MP3A	X	2.524	5.5
41	MP3A	Z	-4.372	5.5
42	MP3A	Mx	-.001	5.5
43	MP3B	X	1.378	3.5
44	MP3B	Z	-2.386	3.5
45	MP3B	Mx	.001	3.5
46	MP3B	X	1.378	5.5
47	MP3B	Z	-2.386	5.5
48	MP3B	Mx	.001	5.5
49	MP3C	X	2.524	3.5
50	MP3C	Z	-4.372	3.5
51	MP3C	Mx	-.001	3.5
52	MP3C	X	2.524	5.5
53	MP3C	Z	-4.372	5.5
54	MP3C	Mx	-.001	5.5
55	MP4A	X	4.731	2.75
56	MP4A	Z	-8.195	2.75
57	MP4A	Mx	-.003	2.75
58	MP4A	X	4.731	6.25
59	MP4A	Z	-8.195	6.25
60	MP4A	Mx	-.003	6.25
61	MP4B	X	3.623	2.75
62	MP4B	Z	-6.276	2.75
63	MP4B	Mx	.005	2.75
64	MP4B	X	3.623	6.25
65	MP4B	Z	-6.276	6.25
66	MP4B	Mx	.005	6.25
67	MP4C	X	4.731	2.75
68	MP4C	Z	-8.195	2.75
69	MP4C	Mx	-.003	2.75
70	MP4C	X	4.731	6.25
71	MP4C	Z	-8.195	6.25
72	MP4C	Mx	-.003	6.25
73	MP2A	X	2.173	2
74	MP2A	Z	-3.763	2
75	MP2A	Mx	.001	2
76	MP2B	X	1.676	2
77	MP2B	Z	-2.902	2
78	MP2B	Mx	-.002	2
79	MP2C	X	2.173	2
80	MP2C	Z	-3.763	2
81	MP2C	Mx	.001	2
82	MP1A	X	2.137	2
83	MP1A	Z	-3.702	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
84	MP1A	Mx	-.001	2
85	MP1B	X	1.55	2
86	MP1B	Z	-2.684	2
87	MP1B	Mx	.001	2
88	MP1C	X	2.137	2
89	MP1C	Z	-3.702	2
90	MP1C	Mx	-.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	8.746	2.75
2	MP2A	Z	-5.049	2.75
3	MP2A	Mx	-.012	2.75
4	MP2A	X	8.746	6.25
5	MP2A	Z	-5.049	6.25
6	MP2A	Mx	-.012	6.25
7	MP2B	X	8.135	2.75
8	MP2B	Z	-4.697	2.75
9	MP2B	Mx	.007	2.75
10	MP2B	X	8.135	6.25
11	MP2B	Z	-4.697	6.25
12	MP2B	Mx	.007	6.25
13	MP2C	X	10.829	2.75
14	MP2C	Z	-6.252	2.75
15	MP2C	Mx	.01	2.75
16	MP2C	X	10.829	6.25
17	MP2C	Z	-6.252	6.25
18	MP2C	Mx	.01	6.25
19	MP2A	X	8.746	2.75
20	MP2A	Z	-5.049	2.75
21	MP2A	Mx	-.004	2.75
22	MP2A	X	8.746	6.25
23	MP2A	Z	-5.049	6.25
24	MP2A	Mx	-.004	6.25
25	MP2B	X	8.135	2.75
26	MP2B	Z	-4.697	2.75
27	MP2B	Mx	.01	2.75
28	MP2B	X	8.135	6.25
29	MP2B	Z	-4.697	6.25
30	MP2B	Mx	.01	6.25
31	MP2C	X	10.829	2.75
32	MP2C	Z	-6.252	2.75
33	MP2C	Mx	-.01	2.75
34	MP2C	X	10.829	6.25
35	MP2C	Z	-6.252	6.25
36	MP2C	Mx	-.01	6.25
37	MP3A	X	2.803	3.5
38	MP3A	Z	-1.619	3.5
39	MP3A	Mx	-.001	3.5
40	MP3A	X	2.803	5.5
41	MP3A	Z	-1.619	5.5
42	MP3A	Mx	-.001	5.5
43	MP3B	X	2.114	3.5
44	MP3B	Z	-1.22	3.5
45	MP3B	Mx	.001	3.5
46	MP3B	X	2.114	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
47	MP3B	Z	-1.22	5.5
48	MP3B	Mx	.001	5.5
49	MP3C	X	5.157	3.5
50	MP3C	Z	-2.977	3.5
51	MP3C	Mx	0	3.5
52	MP3C	X	5.157	5.5
53	MP3C	Z	-2.977	5.5
54	MP3C	Mx	0	5.5
55	MP4A	X	6.679	2.75
56	MP4A	Z	-3.856	2.75
57	MP4A	Mx	-.004	2.75
58	MP4A	X	6.679	6.25
59	MP4A	Z	-3.856	6.25
60	MP4A	Mx	-.004	6.25
61	MP4B	X	6.012	2.75
62	MP4B	Z	-3.471	2.75
63	MP4B	Mx	.005	2.75
64	MP4B	X	6.012	6.25
65	MP4B	Z	-3.471	6.25
66	MP4B	Mx	.005	6.25
67	MP4C	X	8.953	2.75
68	MP4C	Z	-5.169	2.75
69	MP4C	Mx	0	2.75
70	MP4C	X	8.953	6.25
71	MP4C	Z	-5.169	6.25
72	MP4C	Mx	0	6.25
73	MP2A	X	3.083	2
74	MP2A	Z	-1.78	2
75	MP2A	Mx	.002	2
76	MP2B	X	2.784	2
77	MP2B	Z	-1.607	2
78	MP2B	Mx	-.002	2
79	MP2C	X	4.104	2
80	MP2C	Z	-2.369	2
81	MP2C	Mx	0	2
82	MP1A	X	2.898	2
83	MP1A	Z	-1.673	2
84	MP1A	Mx	-.001	2
85	MP1B	X	2.545	2
86	MP1B	Z	-1.469	2
87	MP1B	Mx	.001	2
88	MP1C	X	4.104	2
89	MP1C	Z	-2.369	2
90	MP1C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	9.297	2.75
2	MP2A	Z	0	2.75
3	MP2A	Mx	-.009	2.75
4	MP2A	X	9.297	6.25
5	MP2A	Z	0	6.25
6	MP2A	Mx	-.009	6.25
7	MP2B	X	10.622	2.75
8	MP2B	Z	0	2.75
9	MP2B	Mx	.002	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
10	MP2B	X	10.622	6.25
11	MP2B	Z	0	6.25
12	MP2B	Mx	.002	6.25
13	MP2C	X	11.703	2.75
14	MP2C	Z	0	2.75
15	MP2C	Mx	.014	2.75
16	MP2C	X	11.703	6.25
17	MP2C	Z	0	6.25
18	MP2C	Mx	.014	6.25
19	MP2A	X	9.297	2.75
20	MP2A	Z	0	2.75
21	MP2A	Mx	-.009	2.75
22	MP2A	X	9.297	6.25
23	MP2A	Z	0	6.25
24	MP2A	Mx	-.009	6.25
25	MP2B	X	10.622	2.75
26	MP2B	Z	0	2.75
27	MP2B	Mx	.013	2.75
28	MP2B	X	10.622	6.25
29	MP2B	Z	0	6.25
30	MP2B	Mx	.013	6.25
31	MP2C	X	11.703	2.75
32	MP2C	Z	0	2.75
33	MP2C	Mx	-.003	2.75
34	MP2C	X	11.703	6.25
35	MP2C	Z	0	6.25
36	MP2C	Mx	-.003	6.25
37	MP3A	X	2.331	3.5
38	MP3A	Z	0	3.5
39	MP3A	Mx	-.001	3.5
40	MP3A	X	2.331	5.5
41	MP3A	Z	0	5.5
42	MP3A	Mx	-.001	5.5
43	MP3B	X	3.828	3.5
44	MP3B	Z	0	3.5
45	MP3B	Mx	.001	3.5
46	MP3B	X	3.828	5.5
47	MP3B	Z	0	5.5
48	MP3B	Mx	.001	5.5
49	MP3C	X	5.049	3.5
50	MP3C	Z	0	3.5
51	MP3C	Mx	.001	3.5
52	MP3C	X	5.049	5.5
53	MP3C	Z	0	5.5
54	MP3C	Mx	.001	5.5
55	MP4A	X	6.837	2.75
56	MP4A	Z	0	2.75
57	MP4A	Mx	-.005	2.75
58	MP4A	X	6.837	6.25
59	MP4A	Z	0	6.25
60	MP4A	Mx	-.005	6.25
61	MP4B	X	8.284	2.75
62	MP4B	Z	0	2.75
63	MP4B	Mx	.004	2.75
64	MP4B	X	8.284	6.25
65	MP4B	Z	0	6.25
66	MP4B	Mx	.004	6.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
67	MP4C	X	9.463	2.75
68	MP4C	Z	0	2.75
69	MP4C	Mx	.003	2.75
70	MP4C	X	9.463	6.25
71	MP4C	Z	0	6.25
72	MP4C	Mx	.003	6.25
73	MP2A	X	3.167	2
74	MP2A	Z	0	2
75	MP2A	Mx	.002	2
76	MP2B	X	3.816	2
77	MP2B	Z	0	2
78	MP2B	Mx	-.001	2
79	MP2C	X	4.346	2
80	MP2C	Z	0	2
81	MP2C	Mx	-.001	2
82	MP1A	X	2.882	2
83	MP1A	Z	0	2
84	MP1A	Mx	-.001	2
85	MP1B	X	3.649	2
86	MP1B	Z	0	2
87	MP1B	Mx	.001	2
88	MP1C	X	4.274	2
89	MP1C	Z	0	2
90	MP1C	Mx	.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	8.746	2.75
2	MP2A	Z	5.049	2.75
3	MP2A	Mx	-.004	2.75
4	MP2A	X	8.746	6.25
5	MP2A	Z	5.049	6.25
6	MP2A	Mx	-.004	6.25
7	MP2B	X	10.504	2.75
8	MP2B	Z	6.065	2.75
9	MP2B	Mx	-.006	2.75
10	MP2B	X	10.504	6.25
11	MP2B	Z	6.065	6.25
12	MP2B	Mx	-.006	6.25
13	MP2C	X	8.746	2.75
14	MP2C	Z	5.049	2.75
15	MP2C	Mx	.012	2.75
16	MP2C	X	8.746	6.25
17	MP2C	Z	5.049	6.25
18	MP2C	Mx	.012	6.25
19	MP2A	X	8.746	2.75
20	MP2A	Z	5.049	2.75
21	MP2A	Mx	-.012	2.75
22	MP2A	X	8.746	6.25
23	MP2A	Z	5.049	6.25
24	MP2A	Mx	-.012	6.25
25	MP2B	X	10.504	2.75
26	MP2B	Z	6.065	2.75
27	MP2B	Mx	.013	2.75
28	MP2B	X	10.504	6.25
29	MP2B	Z	6.065	6.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP2B	Mx	.013	6.25
31	MP2C	X	8.746	2.75
32	MP2C	Z	5.049	2.75
33	MP2C	Mx	.004	2.75
34	MP2C	X	8.746	6.25
35	MP2C	Z	5.049	6.25
36	MP2C	Mx	.004	6.25
37	MP3A	X	2.803	3.5
38	MP3A	Z	1.619	3.5
39	MP3A	Mx	-.001	3.5
40	MP3A	X	2.803	5.5
41	MP3A	Z	1.619	5.5
42	MP3A	Mx	-.001	5.5
43	MP3B	X	4.79	3.5
44	MP3B	Z	2.765	3.5
45	MP3B	Mx	.000946	3.5
46	MP3B	X	4.79	5.5
47	MP3B	Z	2.765	5.5
48	MP3B	Mx	.000946	5.5
49	MP3C	X	2.803	3.5
50	MP3C	Z	1.619	3.5
51	MP3C	Mx	.001	3.5
52	MP3C	X	2.803	5.5
53	MP3C	Z	1.619	5.5
54	MP3C	Mx	.001	5.5
55	MP4A	X	6.679	2.75
56	MP4A	Z	3.856	2.75
57	MP4A	Mx	-.004	2.75
58	MP4A	X	6.679	6.25
59	MP4A	Z	3.856	6.25
60	MP4A	Mx	-.004	6.25
61	MP4B	X	8.598	2.75
62	MP4B	Z	4.964	2.75
63	MP4B	Mx	.002	2.75
64	MP4B	X	8.598	6.25
65	MP4B	Z	4.964	6.25
66	MP4B	Mx	.002	6.25
67	MP4C	X	6.679	2.75
68	MP4C	Z	3.856	2.75
69	MP4C	Mx	.004	2.75
70	MP4C	X	6.679	6.25
71	MP4C	Z	3.856	6.25
72	MP4C	Mx	.004	6.25
73	MP2A	X	3.083	2
74	MP2A	Z	1.78	2
75	MP2A	Mx	.002	2
76	MP2B	X	3.944	2
77	MP2B	Z	2.277	2
78	MP2B	Mx	-.000779	2
79	MP2C	X	3.083	2
80	MP2C	Z	1.78	2
81	MP2C	Mx	-.002	2
82	MP1A	X	2.898	2
83	MP1A	Z	1.673	2
84	MP1A	Mx	-.001	2
85	MP1B	X	3.916	2
86	MP1B	Z	2.261	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
87	MP1B	Mx	.000773	2
88	MP1C	X	2.898	2
89	MP1C	Z	1.673	2
90	MP1C	Mx	.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	5.851	2.75
2	MP2A	Z	10.135	2.75
3	MP2A	Mx	.003	2.75
4	MP2A	X	5.851	6.25
5	MP2A	Z	10.135	6.25
6	MP2A	Mx	.003	6.25
7	MP2B	X	6.204	2.75
8	MP2B	Z	10.746	2.75
9	MP2B	Mx	-.012	2.75
10	MP2B	X	6.204	6.25
11	MP2B	Z	10.746	6.25
12	MP2B	Mx	-.012	6.25
13	MP2C	X	4.648	2.75
14	MP2C	Z	8.051	2.75
15	MP2C	Mx	.009	2.75
16	MP2C	X	4.648	6.25
17	MP2C	Z	8.051	6.25
18	MP2C	Mx	.009	6.25
19	MP2A	X	5.851	2.75
20	MP2A	Z	10.135	2.75
21	MP2A	Mx	-.014	2.75
22	MP2A	X	5.851	6.25
23	MP2A	Z	10.135	6.25
24	MP2A	Mx	-.014	6.25
25	MP2B	X	6.204	2.75
26	MP2B	Z	10.746	2.75
27	MP2B	Mx	.008	2.75
28	MP2B	X	6.204	6.25
29	MP2B	Z	10.746	6.25
30	MP2B	Mx	.008	6.25
31	MP2C	X	4.648	2.75
32	MP2C	Z	8.051	2.75
33	MP2C	Mx	.009	2.75
34	MP2C	X	4.648	6.25
35	MP2C	Z	8.051	6.25
36	MP2C	Mx	.009	6.25
37	MP3A	X	2.524	3.5
38	MP3A	Z	4.372	3.5
39	MP3A	Mx	-.001	3.5
40	MP3A	X	2.524	5.5
41	MP3A	Z	4.372	5.5
42	MP3A	Mx	-.001	5.5
43	MP3B	X	2.923	3.5
44	MP3B	Z	5.062	3.5
45	MP3B	Mx	-.000507	3.5
46	MP3B	X	2.923	5.5
47	MP3B	Z	5.062	5.5
48	MP3B	Mx	-.000507	5.5
49	MP3C	X	1.166	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
50	MP3C	Z	2.019	3.5
51	MP3C	Mx	.001	3.5
52	MP3C	X	1.166	5.5
53	MP3C	Z	2.019	5.5
54	MP3C	Mx	.001	5.5
55	MP4A	X	4.731	2.75
56	MP4A	Z	8.195	2.75
57	MP4A	Mx	-.003	2.75
58	MP4A	X	4.731	6.25
59	MP4A	Z	8.195	6.25
60	MP4A	Mx	-.003	6.25
61	MP4B	X	5.116	2.75
62	MP4B	Z	8.862	2.75
63	MP4B	Mx	-.001	2.75
64	MP4B	X	5.116	6.25
65	MP4B	Z	8.862	6.25
66	MP4B	Mx	-.001	6.25
67	MP4C	X	3.418	2.75
68	MP4C	Z	5.921	2.75
69	MP4C	Mx	.005	2.75
70	MP4C	X	3.418	6.25
71	MP4C	Z	5.921	6.25
72	MP4C	Mx	.005	6.25
73	MP2A	X	2.173	2
74	MP2A	Z	3.763	2
75	MP2A	Mx	.001	2
76	MP2B	X	2.346	2
77	MP2B	Z	4.063	2
78	MP2B	Mx	.000407	2
79	MP2C	X	1.584	2
80	MP2C	Z	2.743	2
81	MP2C	Mx	-.002	2
82	MP1A	X	2.137	2
83	MP1A	Z	3.702	2
84	MP1A	Mx	-.001	2
85	MP1B	X	2.341	2
86	MP1B	Z	4.055	2
87	MP1B	Mx	-.000407	2
88	MP1C	X	1.441	2
89	MP1C	Z	2.496	2
90	MP1C	Mx	.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	2.75
2	MP2A	Z	12.505	2.75
3	MP2A	Mx	.01	2.75
4	MP2A	X	0	6.25
5	MP2A	Z	12.505	6.25
6	MP2A	Mx	.01	6.25
7	MP2B	X	0	2.75
8	MP2B	Z	11.179	2.75
9	MP2B	Mx	-.014	2.75
10	MP2B	X	0	6.25
11	MP2B	Z	11.179	6.25
12	MP2B	Mx	-.014	6.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP2C	X	0	2.75
14	MP2C	Z	10.099	2.75
15	MP2C	Mx	.004	2.75
16	MP2C	X	0	6.25
17	MP2C	Z	10.099	6.25
18	MP2C	Mx	.004	6.25
19	MP2A	X	0	2.75
20	MP2A	Z	12.505	2.75
21	MP2A	Mx	-.01	2.75
22	MP2A	X	0	6.25
23	MP2A	Z	12.505	6.25
24	MP2A	Mx	-.01	6.25
25	MP2B	X	0	2.75
26	MP2B	Z	11.179	2.75
27	MP2B	Mx	.000549	2.75
28	MP2B	X	0	6.25
29	MP2B	Z	11.179	6.25
30	MP2B	Mx	.000549	6.25
31	MP2C	X	0	2.75
32	MP2C	Z	10.099	2.75
33	MP2C	Mx	.012	2.75
34	MP2C	X	0	6.25
35	MP2C	Z	10.099	6.25
36	MP2C	Mx	.012	6.25
37	MP3A	X	0	3.5
38	MP3A	Z	5.955	3.5
39	MP3A	Mx	0	3.5
40	MP3A	X	0	5.5
41	MP3A	Z	5.955	5.5
42	MP3A	Mx	0	5.5
43	MP3B	X	0	3.5
44	MP3B	Z	4.458	3.5
45	MP3B	Mx	-.001	3.5
46	MP3B	X	0	5.5
47	MP3B	Z	4.458	5.5
48	MP3B	Mx	-.001	5.5
49	MP3C	X	0	3.5
50	MP3C	Z	3.237	3.5
51	MP3C	Mx	.001	3.5
52	MP3C	X	0	5.5
53	MP3C	Z	3.237	5.5
54	MP3C	Mx	.001	5.5
55	MP4A	X	0	2.75
56	MP4A	Z	10.338	2.75
57	MP4A	Mx	0	2.75
58	MP4A	X	0	6.25
59	MP4A	Z	10.338	6.25
60	MP4A	Mx	0	6.25
61	MP4B	X	0	2.75
62	MP4B	Z	8.892	2.75
63	MP4B	Mx	-.004	2.75
64	MP4B	X	0	6.25
65	MP4B	Z	8.892	6.25
66	MP4B	Mx	-.004	6.25
67	MP4C	X	0	2.75
68	MP4C	Z	7.712	2.75
69	MP4C	Mx	.004	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
70	MP4C	X	0	6.25
71	MP4C	Z	7.712	6.25
72	MP4C	Mx	.004	6.25
73	MP2A	X	0	2
74	MP2A	Z	4.738	2
75	MP2A	Mx	0	2
76	MP2B	X	0	2
77	MP2B	Z	4.089	2
78	MP2B	Mx	.001	2
79	MP2C	X	0	2
80	MP2C	Z	3.56	2
81	MP2C	Mx	-.002	2
82	MP1A	X	0	2
83	MP1A	Z	4.738	2
84	MP1A	Mx	0	2
85	MP1B	X	0	2
86	MP1B	Z	3.971	2
87	MP1B	Mx	-.001	2
88	MP1C	X	0	2
89	MP1C	Z	3.346	2
90	MP1C	Mx	.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-5.851	2.75
2	MP2A	Z	10.135	2.75
3	MP2A	Mx	.014	2.75
4	MP2A	X	-5.851	6.25
5	MP2A	Z	10.135	6.25
6	MP2A	Mx	.014	6.25
7	MP2B	X	-4.836	2.75
8	MP2B	Z	8.376	2.75
9	MP2B	Mx	-.011	2.75
10	MP2B	X	-4.836	6.25
11	MP2B	Z	8.376	6.25
12	MP2B	Mx	-.011	6.25
13	MP2C	X	-5.851	2.75
14	MP2C	Z	10.135	2.75
15	MP2C	Mx	-.003	2.75
16	MP2C	X	-5.851	6.25
17	MP2C	Z	10.135	6.25
18	MP2C	Mx	-.003	6.25
19	MP2A	X	-5.851	2.75
20	MP2A	Z	10.135	2.75
21	MP2A	Mx	-.003	2.75
22	MP2A	X	-5.851	6.25
23	MP2A	Z	10.135	6.25
24	MP2A	Mx	-.003	6.25
25	MP2B	X	-4.836	2.75
26	MP2B	Z	8.376	2.75
27	MP2B	Mx	-.006	2.75
28	MP2B	X	-4.836	6.25
29	MP2B	Z	8.376	6.25
30	MP2B	Mx	-.006	6.25
31	MP2C	X	-5.851	2.75
32	MP2C	Z	10.135	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
33	MP2C	Mx	.014	2.75
34	MP2C	X	-5.851	6.25
35	MP2C	Z	10.135	6.25
36	MP2C	Mx	.014	6.25
37	MP3A	X	-2.524	3.5
38	MP3A	Z	4.372	3.5
39	MP3A	Mx	.001	3.5
40	MP3A	X	-2.524	5.5
41	MP3A	Z	4.372	5.5
42	MP3A	Mx	.001	5.5
43	MP3B	X	-1.378	3.5
44	MP3B	Z	2.386	3.5
45	MP3B	Mx	-.001	3.5
46	MP3B	X	-1.378	5.5
47	MP3B	Z	2.386	5.5
48	MP3B	Mx	-.001	5.5
49	MP3C	X	-2.524	3.5
50	MP3C	Z	4.372	3.5
51	MP3C	Mx	.001	3.5
52	MP3C	X	-2.524	5.5
53	MP3C	Z	4.372	5.5
54	MP3C	Mx	.001	5.5
55	MP4A	X	-4.731	2.75
56	MP4A	Z	8.195	2.75
57	MP4A	Mx	.003	2.75
58	MP4A	X	-4.731	6.25
59	MP4A	Z	8.195	6.25
60	MP4A	Mx	.003	6.25
61	MP4B	X	-3.623	2.75
62	MP4B	Z	6.276	2.75
63	MP4B	Mx	-.005	2.75
64	MP4B	X	-3.623	6.25
65	MP4B	Z	6.276	6.25
66	MP4B	Mx	-.005	6.25
67	MP4C	X	-4.731	2.75
68	MP4C	Z	8.195	2.75
69	MP4C	Mx	.003	2.75
70	MP4C	X	-4.731	6.25
71	MP4C	Z	8.195	6.25
72	MP4C	Mx	.003	6.25
73	MP2A	X	-2.173	2
74	MP2A	Z	3.763	2
75	MP2A	Mx	-.001	2
76	MP2B	X	-1.676	2
77	MP2B	Z	2.902	2
78	MP2B	Mx	.002	2
79	MP2C	X	-2.173	2
80	MP2C	Z	3.763	2
81	MP2C	Mx	-.001	2
82	MP1A	X	-2.137	2
83	MP1A	Z	3.702	2
84	MP1A	Mx	.001	2
85	MP1B	X	-1.55	2
86	MP1B	Z	2.684	2
87	MP1B	Mx	-.001	2
88	MP1C	X	-2.137	2
89	MP1C	Z	3.702	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
90	MP1C	Mx	.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-8.746	2.75
2	MP2A	Z	5.049	2.75
3	MP2A	Mx	.012	2.75
4	MP2A	X	-8.746	6.25
5	MP2A	Z	5.049	6.25
6	MP2A	Mx	.012	6.25
7	MP2B	X	-8.135	2.75
8	MP2B	Z	4.697	2.75
9	MP2B	Mx	-.007	2.75
10	MP2B	X	-8.135	6.25
11	MP2B	Z	4.697	6.25
12	MP2B	Mx	-.007	6.25
13	MP2C	X	-10.829	2.75
14	MP2C	Z	6.252	2.75
15	MP2C	Mx	-.01	2.75
16	MP2C	X	-10.829	6.25
17	MP2C	Z	6.252	6.25
18	MP2C	Mx	-.01	6.25
19	MP2A	X	-8.746	2.75
20	MP2A	Z	5.049	2.75
21	MP2A	Mx	.004	2.75
22	MP2A	X	-8.746	6.25
23	MP2A	Z	5.049	6.25
24	MP2A	Mx	.004	6.25
25	MP2B	X	-8.135	2.75
26	MP2B	Z	4.697	2.75
27	MP2B	Mx	-.01	2.75
28	MP2B	X	-8.135	6.25
29	MP2B	Z	4.697	6.25
30	MP2B	Mx	-.01	6.25
31	MP2C	X	-10.829	2.75
32	MP2C	Z	6.252	2.75
33	MP2C	Mx	.01	2.75
34	MP2C	X	-10.829	6.25
35	MP2C	Z	6.252	6.25
36	MP2C	Mx	.01	6.25
37	MP3A	X	-2.803	3.5
38	MP3A	Z	1.619	3.5
39	MP3A	Mx	.001	3.5
40	MP3A	X	-2.803	5.5
41	MP3A	Z	1.619	5.5
42	MP3A	Mx	.001	5.5
43	MP3B	X	-2.114	3.5
44	MP3B	Z	1.22	3.5
45	MP3B	Mx	-.001	3.5
46	MP3B	X	-2.114	5.5
47	MP3B	Z	1.22	5.5
48	MP3B	Mx	-.001	5.5
49	MP3C	X	-5.157	3.5
50	MP3C	Z	2.977	3.5
51	MP3C	Mx	0	3.5
52	MP3C	X	-5.157	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP3C	Z	2.977	5.5
54	MP3C	Mx	0	5.5
55	MP4A	X	-6.679	2.75
56	MP4A	Z	3.856	2.75
57	MP4A	Mx	.004	2.75
58	MP4A	X	-6.679	6.25
59	MP4A	Z	3.856	6.25
60	MP4A	Mx	.004	6.25
61	MP4B	X	-6.012	2.75
62	MP4B	Z	3.471	2.75
63	MP4B	Mx	-.005	2.75
64	MP4B	X	-6.012	6.25
65	MP4B	Z	3.471	6.25
66	MP4B	Mx	-.005	6.25
67	MP4C	X	-8.953	2.75
68	MP4C	Z	5.169	2.75
69	MP4C	Mx	0	2.75
70	MP4C	X	-8.953	6.25
71	MP4C	Z	5.169	6.25
72	MP4C	Mx	0	6.25
73	MP2A	X	-3.083	2
74	MP2A	Z	1.78	2
75	MP2A	Mx	-.002	2
76	MP2B	X	-2.784	2
77	MP2B	Z	1.607	2
78	MP2B	Mx	.002	2
79	MP2C	X	-4.104	2
80	MP2C	Z	2.369	2
81	MP2C	Mx	0	2
82	MP1A	X	-2.898	2
83	MP1A	Z	1.673	2
84	MP1A	Mx	.001	2
85	MP1B	X	-2.545	2
86	MP1B	Z	1.469	2
87	MP1B	Mx	-.001	2
88	MP1C	X	-4.104	2
89	MP1C	Z	2.369	2
90	MP1C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-9.297	2.75
2	MP2A	Z	0	2.75
3	MP2A	Mx	.009	2.75
4	MP2A	X	-9.297	6.25
5	MP2A	Z	0	6.25
6	MP2A	Mx	.009	6.25
7	MP2B	X	-10.622	2.75
8	MP2B	Z	0	2.75
9	MP2B	Mx	-.002	2.75
10	MP2B	X	-10.622	6.25
11	MP2B	Z	0	6.25
12	MP2B	Mx	-.002	6.25
13	MP2C	X	-11.703	2.75
14	MP2C	Z	0	2.75
15	MP2C	Mx	-.014	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP2C	X	-11.703	6.25
17	MP2C	Z	0	6.25
18	MP2C	Mx	-.014	6.25
19	MP2A	X	-9.297	2.75
20	MP2A	Z	0	2.75
21	MP2A	Mx	.009	2.75
22	MP2A	X	-9.297	6.25
23	MP2A	Z	0	6.25
24	MP2A	Mx	.009	6.25
25	MP2B	X	-10.622	2.75
26	MP2B	Z	0	2.75
27	MP2B	Mx	-.013	2.75
28	MP2B	X	-10.622	6.25
29	MP2B	Z	0	6.25
30	MP2B	Mx	-.013	6.25
31	MP2C	X	-11.703	2.75
32	MP2C	Z	0	2.75
33	MP2C	Mx	.003	2.75
34	MP2C	X	-11.703	6.25
35	MP2C	Z	0	6.25
36	MP2C	Mx	.003	6.25
37	MP3A	X	-2.331	3.5
38	MP3A	Z	0	3.5
39	MP3A	Mx	.001	3.5
40	MP3A	X	-2.331	5.5
41	MP3A	Z	0	5.5
42	MP3A	Mx	.001	5.5
43	MP3B	X	-3.828	3.5
44	MP3B	Z	0	3.5
45	MP3B	Mx	-.001	3.5
46	MP3B	X	-3.828	5.5
47	MP3B	Z	0	5.5
48	MP3B	Mx	-.001	5.5
49	MP3C	X	-5.049	3.5
50	MP3C	Z	0	3.5
51	MP3C	Mx	-.001	3.5
52	MP3C	X	-5.049	5.5
53	MP3C	Z	0	5.5
54	MP3C	Mx	-.001	5.5
55	MP4A	X	-6.837	2.75
56	MP4A	Z	0	2.75
57	MP4A	Mx	.005	2.75
58	MP4A	X	-6.837	6.25
59	MP4A	Z	0	6.25
60	MP4A	Mx	.005	6.25
61	MP4B	X	-8.284	2.75
62	MP4B	Z	0	2.75
63	MP4B	Mx	-.004	2.75
64	MP4B	X	-8.284	6.25
65	MP4B	Z	0	6.25
66	MP4B	Mx	-.004	6.25
67	MP4C	X	-9.463	2.75
68	MP4C	Z	0	2.75
69	MP4C	Mx	-.003	2.75
70	MP4C	X	-9.463	6.25
71	MP4C	Z	0	6.25
72	MP4C	Mx	-.003	6.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP2A	X	-3.167	2
74	MP2A	Z	0	2
75	MP2A	Mx	-.002	2
76	MP2B	X	-3.816	2
77	MP2B	Z	0	2
78	MP2B	Mx	.001	2
79	MP2C	X	-4.346	2
80	MP2C	Z	0	2
81	MP2C	Mx	.001	2
82	MP1A	X	-2.882	2
83	MP1A	Z	0	2
84	MP1A	Mx	.001	2
85	MP1B	X	-3.649	2
86	MP1B	Z	0	2
87	MP1B	Mx	-.001	2
88	MP1C	X	-4.274	2
89	MP1C	Z	0	2
90	MP1C	Mx	-.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-8.746	2.75
2	MP2A	Z	-5.049	2.75
3	MP2A	Mx	.004	2.75
4	MP2A	X	-8.746	6.25
5	MP2A	Z	-5.049	6.25
6	MP2A	Mx	.004	6.25
7	MP2B	X	-10.504	2.75
8	MP2B	Z	-6.065	2.75
9	MP2B	Mx	.006	2.75
10	MP2B	X	-10.504	6.25
11	MP2B	Z	-6.065	6.25
12	MP2B	Mx	.006	6.25
13	MP2C	X	-8.746	2.75
14	MP2C	Z	-5.049	2.75
15	MP2C	Mx	-.012	2.75
16	MP2C	X	-8.746	6.25
17	MP2C	Z	-5.049	6.25
18	MP2C	Mx	-.012	6.25
19	MP2A	X	-8.746	2.75
20	MP2A	Z	-5.049	2.75
21	MP2A	Mx	.012	2.75
22	MP2A	X	-8.746	6.25
23	MP2A	Z	-5.049	6.25
24	MP2A	Mx	.012	6.25
25	MP2B	X	-10.504	2.75
26	MP2B	Z	-6.065	2.75
27	MP2B	Mx	-.013	2.75
28	MP2B	X	-10.504	6.25
29	MP2B	Z	-6.065	6.25
30	MP2B	Mx	-.013	6.25
31	MP2C	X	-8.746	2.75
32	MP2C	Z	-5.049	2.75
33	MP2C	Mx	-.004	2.75
34	MP2C	X	-8.746	6.25
35	MP2C	Z	-5.049	6.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
36	MP2C	Mx	-.004	6.25
37	MP3A	X	-2.803	3.5
38	MP3A	Z	-1.619	3.5
39	MP3A	Mx	.001	3.5
40	MP3A	X	-2.803	5.5
41	MP3A	Z	-1.619	5.5
42	MP3A	Mx	.001	5.5
43	MP3B	X	-4.79	3.5
44	MP3B	Z	-2.765	3.5
45	MP3B	Mx	-.000946	3.5
46	MP3B	X	-4.79	5.5
47	MP3B	Z	-2.765	5.5
48	MP3B	Mx	-.000946	5.5
49	MP3C	X	-2.803	3.5
50	MP3C	Z	-1.619	3.5
51	MP3C	Mx	-.001	3.5
52	MP3C	X	-2.803	5.5
53	MP3C	Z	-1.619	5.5
54	MP3C	Mx	-.001	5.5
55	MP4A	X	-6.679	2.75
56	MP4A	Z	-3.856	2.75
57	MP4A	Mx	.004	2.75
58	MP4A	X	-6.679	6.25
59	MP4A	Z	-3.856	6.25
60	MP4A	Mx	.004	6.25
61	MP4B	X	-8.598	2.75
62	MP4B	Z	-4.964	2.75
63	MP4B	Mx	-.002	2.75
64	MP4B	X	-8.598	6.25
65	MP4B	Z	-4.964	6.25
66	MP4B	Mx	-.002	6.25
67	MP4C	X	-6.679	2.75
68	MP4C	Z	-3.856	2.75
69	MP4C	Mx	-.004	2.75
70	MP4C	X	-6.679	6.25
71	MP4C	Z	-3.856	6.25
72	MP4C	Mx	-.004	6.25
73	MP2A	X	-3.083	2
74	MP2A	Z	-1.78	2
75	MP2A	Mx	-.002	2
76	MP2B	X	-3.944	2
77	MP2B	Z	-2.277	2
78	MP2B	Mx	.000779	2
79	MP2C	X	-3.083	2
80	MP2C	Z	-1.78	2
81	MP2C	Mx	.002	2
82	MP1A	X	-2.898	2
83	MP1A	Z	-1.673	2
84	MP1A	Mx	.001	2
85	MP1B	X	-3.916	2
86	MP1B	Z	-2.261	2
87	MP1B	Mx	-.000773	2
88	MP1C	X	-2.898	2
89	MP1C	Z	-1.673	2
90	MP1C	Mx	-.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-5.851	2.75
2	MP2A	Z	-10.135	2.75
3	MP2A	Mx	-.003	2.75
4	MP2A	X	-5.851	6.25
5	MP2A	Z	-10.135	6.25
6	MP2A	Mx	-.003	6.25
7	MP2B	X	-6.204	2.75
8	MP2B	Z	-10.746	2.75
9	MP2B	Mx	.012	2.75
10	MP2B	X	-6.204	6.25
11	MP2B	Z	-10.746	6.25
12	MP2B	Mx	.012	6.25
13	MP2C	X	-4.648	2.75
14	MP2C	Z	-8.051	2.75
15	MP2C	Mx	-.009	2.75
16	MP2C	X	-4.648	6.25
17	MP2C	Z	-8.051	6.25
18	MP2C	Mx	-.009	6.25
19	MP2A	X	-5.851	2.75
20	MP2A	Z	-10.135	2.75
21	MP2A	Mx	.014	2.75
22	MP2A	X	-5.851	6.25
23	MP2A	Z	-10.135	6.25
24	MP2A	Mx	.014	6.25
25	MP2B	X	-6.204	2.75
26	MP2B	Z	-10.746	2.75
27	MP2B	Mx	-.008	2.75
28	MP2B	X	-6.204	6.25
29	MP2B	Z	-10.746	6.25
30	MP2B	Mx	-.008	6.25
31	MP2C	X	-4.648	2.75
32	MP2C	Z	-8.051	2.75
33	MP2C	Mx	-.009	2.75
34	MP2C	X	-4.648	6.25
35	MP2C	Z	-8.051	6.25
36	MP2C	Mx	-.009	6.25
37	MP3A	X	-2.524	3.5
38	MP3A	Z	-4.372	3.5
39	MP3A	Mx	.001	3.5
40	MP3A	X	-2.524	5.5
41	MP3A	Z	-4.372	5.5
42	MP3A	Mx	.001	5.5
43	MP3B	X	-2.923	3.5
44	MP3B	Z	-5.062	3.5
45	MP3B	Mx	.000507	3.5
46	MP3B	X	-2.923	5.5
47	MP3B	Z	-5.062	5.5
48	MP3B	Mx	.000507	5.5
49	MP3C	X	-1.166	3.5
50	MP3C	Z	-2.019	3.5
51	MP3C	Mx	-.001	3.5
52	MP3C	X	-1.166	5.5
53	MP3C	Z	-2.019	5.5
54	MP3C	Mx	-.001	5.5
55	MP4A	X	-4.731	2.75
56	MP4A	Z	-8.195	2.75
57	MP4A	Mx	.003	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP4A	X	-4.731	6.25
59	MP4A	Z	-8.195	6.25
60	MP4A	Mx	.003	6.25
61	MP4B	X	-5.116	2.75
62	MP4B	Z	-8.862	2.75
63	MP4B	Mx	.001	2.75
64	MP4B	X	-5.116	6.25
65	MP4B	Z	-8.862	6.25
66	MP4B	Mx	.001	6.25
67	MP4C	X	-3.418	2.75
68	MP4C	Z	-5.921	2.75
69	MP4C	Mx	-.005	2.75
70	MP4C	X	-3.418	6.25
71	MP4C	Z	-5.921	6.25
72	MP4C	Mx	-.005	6.25
73	MP2A	X	-2.173	2
74	MP2A	Z	-3.763	2
75	MP2A	Mx	-.001	2
76	MP2B	X	-2.346	2
77	MP2B	Z	-4.063	2
78	MP2B	Mx	-.000407	2
79	MP2C	X	-1.584	2
80	MP2C	Z	-2.743	2
81	MP2C	Mx	.002	2
82	MP1A	X	-2.137	2
83	MP1A	Z	-3.702	2
84	MP1A	Mx	.001	2
85	MP1B	X	-2.341	2
86	MP1B	Z	-4.055	2
87	MP1B	Mx	.000407	2
88	MP1C	X	-1.441	2
89	MP1C	Z	-2.496	2
90	MP1C	Mx	-.001	2

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-500	%79

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-500	%47

Member Point Loads (BLC 79 : Lv1)

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

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-250	%100

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-.996	2.75
2	MP2A	My	-.000913	2.75

Member Point Loads (BLC 81 : Antenna Ev) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
3	MP2A	Mz	.00083	2.75
4	MP2A	Y	-.996	6.25
5	MP2A	My	-.000913	6.25
6	MP2A	Mz	.00083	6.25
7	MP2B	Y	-.996	2.75
8	MP2B	My	.000166	2.75
9	MP2B	Mz	-.001	2.75
10	MP2B	Y	-.996	6.25
11	MP2B	My	.000166	6.25
12	MP2B	Mz	-.001	6.25
13	MP2C	Y	-.996	2.75
14	MP2C	My	.001	2.75
15	MP2C	Mz	.000376	2.75
16	MP2C	Y	-.996	6.25
17	MP2C	My	.001	6.25
18	MP2C	Mz	.000376	6.25
19	MP2A	Y	-.996	2.75
20	MP2A	My	-.000913	2.75
21	MP2A	Mz	-.00083	2.75
22	MP2A	Y	-.996	6.25
23	MP2A	My	-.000913	6.25
24	MP2A	Mz	-.00083	6.25
25	MP2B	Y	-.996	2.75
26	MP2B	My	.001	2.75
27	MP2B	Mz	4.9e-5	2.75
28	MP2B	Y	-.996	6.25
29	MP2B	My	.001	6.25
30	MP2B	Mz	4.9e-5	6.25
31	MP2C	Y	-.996	2.75
32	MP2C	My	-.000262	2.75
33	MP2C	Mz	.001	2.75
34	MP2C	Y	-.996	6.25
35	MP2C	My	-.000262	6.25
36	MP2C	Mz	.001	6.25
37	MP3A	Y	-1.886	3.5
38	MP3A	My	-.000943	3.5
39	MP3A	Mz	0	3.5
40	MP3A	Y	-1.886	5.5
41	MP3A	My	-.000943	5.5
42	MP3A	Mz	0	5.5
43	MP3B	Y	-1.886	3.5
44	MP3B	My	.000722	3.5
45	MP3B	Mz	-.000606	3.5
46	MP3B	Y	-1.886	5.5
47	MP3B	My	.000722	5.5
48	MP3B	Mz	-.000606	5.5
49	MP3C	Y	-1.886	3.5
50	MP3C	My	.000472	3.5
51	MP3C	Mz	.000817	3.5
52	MP3C	Y	-1.886	5.5
53	MP3C	My	.000472	5.5
54	MP3C	Mz	.000817	5.5
55	MP4A	Y	-.866	2.75
56	MP4A	My	-.000577	2.75
57	MP4A	Mz	0	2.75
58	MP4A	Y	-.866	6.25
59	MP4A	My	-.000577	6.25

Member Point Loads (BLC 81 : Antenna Ev) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
60	MP4A	Mz	0	6.25
61	MP4B	Y	-.866	2.75
62	MP4B	My	.000442	2.75
63	MP4B	Mz	-.000371	2.75
64	MP4B	Y	-.866	6.25
65	MP4B	My	.000442	6.25
66	MP4B	Mz	-.000371	6.25
67	MP4C	Y	-.866	2.75
68	MP4C	My	.000289	2.75
69	MP4C	Mz	.0005	2.75
70	MP4C	Y	-.866	6.25
71	MP4C	My	.000289	6.25
72	MP4C	Mz	.0005	6.25
73	MP2A	Y	-3.235	2
74	MP2A	My	.002	2
75	MP2A	Mz	0	2
76	MP2B	Y	-3.235	2
77	MP2B	My	-.001	2
78	MP2B	Mz	.001	2
79	MP2C	Y	-3.235	2
80	MP2C	My	-.000809	2
81	MP2C	Mz	-.001	2
82	MP1A	Y	-3.044	2
83	MP1A	My	-.002	2
84	MP1A	Mz	0	2
85	MP1B	Y	-3.044	2
86	MP1B	My	.001	2
87	MP1B	Mz	-.000978	2
88	MP1C	Y	-3.044	2
89	MP1C	My	.000761	2
90	MP1C	Mz	.001	2

Member Point Loads (BLC 82 : Antenna Eh (0 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Z	-2.49	2.75
2	MP2A	Mx	-.002	2.75
3	MP2A	Z	-2.49	6.25
4	MP2A	Mx	-.002	6.25
5	MP2B	Z	-2.49	2.75
6	MP2B	Mx	.003	2.75
7	MP2B	Z	-2.49	6.25
8	MP2B	Mx	.003	6.25
9	MP2C	Z	-2.49	2.75
10	MP2C	Mx	-.000939	2.75
11	MP2C	Z	-2.49	6.25
12	MP2C	Mx	-.000939	6.25
13	MP2A	Z	-2.49	2.75
14	MP2A	Mx	.002	2.75
15	MP2A	Z	-2.49	6.25
16	MP2A	Mx	.002	6.25
17	MP2B	Z	-2.49	2.75
18	MP2B	Mx	-.000122	2.75
19	MP2B	Z	-2.49	6.25
20	MP2B	Mx	-.000122	6.25
21	MP2C	Z	-2.49	2.75
22	MP2C	Mx	-.003	2.75

Member Point Loads (BLC 82 : Antenna Eh (0 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
23	MP2C	Z	-2.49	6.25
24	MP2C	Mx	-.003	6.25
25	MP3A	Z	-4.715	3.5
26	MP3A	Mx	0	3.5
27	MP3A	Z	-4.715	5.5
28	MP3A	Mx	0	5.5
29	MP3B	Z	-4.715	3.5
30	MP3B	Mx	.002	3.5
31	MP3B	Z	-4.715	5.5
32	MP3B	Mx	.002	5.5
33	MP3C	Z	-4.715	3.5
34	MP3C	Mx	-.002	3.5
35	MP3C	Z	-4.715	5.5
36	MP3C	Mx	-.002	5.5
37	MP4A	Z	-2.165	2.75
38	MP4A	Mx	0	2.75
39	MP4A	Z	-2.165	6.25
40	MP4A	Mx	0	6.25
41	MP4B	Z	-2.165	2.75
42	MP4B	Mx	.000928	2.75
43	MP4B	Z	-2.165	6.25
44	MP4B	Mx	.000928	6.25
45	MP4C	Z	-2.165	2.75
46	MP4C	Mx	-.001	2.75
47	MP4C	Z	-2.165	6.25
48	MP4C	Mx	-.001	6.25
49	MP2A	Z	-8.088	2
50	MP2A	Mx	0	2
51	MP2B	Z	-8.088	2
52	MP2B	Mx	-.003	2
53	MP2C	Z	-8.088	2
54	MP2C	Mx	.004	2
55	MP1A	Z	-7.611	2
56	MP1A	Mx	0	2
57	MP1B	Z	-7.611	2
58	MP1B	Mx	.002	2
59	MP1C	Z	-7.611	2
60	MP1C	Mx	-.003	2

Member Point Loads (BLC 83 : Antenna Eh (90 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	2.49	2.75
2	MP2A	Mx	-.002	2.75
3	MP2A	X	2.49	6.25
4	MP2A	Mx	-.002	6.25
5	MP2B	X	2.49	2.75
6	MP2B	Mx	.000415	2.75
7	MP2B	X	2.49	6.25
8	MP2B	Mx	.000415	6.25
9	MP2C	X	2.49	2.75
10	MP2C	Mx	.003	2.75
11	MP2C	X	2.49	6.25
12	MP2C	Mx	.003	6.25
13	MP2A	X	2.49	2.75
14	MP2A	Mx	-.002	2.75
15	MP2A	X	2.49	6.25

Member Point Loads (BLC 83 : Antenna Eh (90 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP2A	Mx	-.002	6.25
17	MP2B	X	2.49	2.75
18	MP2B	Mx	.003	2.75
19	MP2B	X	2.49	6.25
20	MP2B	Mx	.003	6.25
21	MP2C	X	2.49	2.75
22	MP2C	Mx	-.000656	2.75
23	MP2C	X	2.49	6.25
24	MP2C	Mx	-.000656	6.25
25	MP3A	X	4.715	3.5
26	MP3A	Mx	-.002	3.5
27	MP3A	X	4.715	5.5
28	MP3A	Mx	-.002	5.5
29	MP3B	X	4.715	3.5
30	MP3B	Mx	.002	3.5
31	MP3B	X	4.715	5.5
32	MP3B	Mx	.002	5.5
33	MP3C	X	4.715	3.5
34	MP3C	Mx	.001	3.5
35	MP3C	X	4.715	5.5
36	MP3C	Mx	.001	5.5
37	MP4A	X	2.165	2.75
38	MP4A	Mx	-.001	2.75
39	MP4A	X	2.165	6.25
40	MP4A	Mx	-.001	6.25
41	MP4B	X	2.165	2.75
42	MP4B	Mx	.001	2.75
43	MP4B	X	2.165	6.25
44	MP4B	Mx	.001	6.25
45	MP4C	X	2.165	2.75
46	MP4C	Mx	.000722	2.75
47	MP4C	X	2.165	6.25
48	MP4C	Mx	.000722	6.25
49	MP2A	X	8.088	2
50	MP2A	Mx	.004	2
51	MP2B	X	8.088	2
52	MP2B	Mx	-.003	2
53	MP2C	X	8.088	2
54	MP2C	Mx	-.002	2
55	MP1A	X	7.611	2
56	MP1A	Mx	-.004	2
57	MP1B	X	7.611	2
58	MP1B	Mx	.003	2
59	MP1C	X	7.611	2
60	MP1C	Mx	.002	2

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	Y	-6.363	-6.363	0	%100
2	M4	Y	-9.33	-9.33	0	%100
3	M10	Y	-9.33	-9.33	0	%100
4	MP3A	Y	-4.816	-4.816	0	%100
5	MP4A	Y	-4.816	-4.816	0	%100
6	MP2A	Y	-5.503	-5.503	0	%100
7	MP1A	Y	-4.816	-4.816	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
8	M43	Y	-9.33	-9.33	0	%100
9	M46	Y	-9.83	-9.83	0	%100
10	M51B	Y	-5.439	-5.439	0	%100
11	M52B	Y	-5.439	-5.439	0	%100
12	M76	Y	-9.818	-9.818	0	%100
13	M77	Y	-9.818	-9.818	0	%100
14	M80	Y	-9.83	-9.83	0	%100
15	M84	Y	-9.818	-9.818	0	%100
16	M85	Y	-9.818	-9.818	0	%100
17	M91	Y	-9.83	-9.83	0	%100
18	M84B	Y	-4.816	-4.816	0	%100
19	M123	Y	-4.816	-4.816	0	%100
20	M44	Y	-9.33	-9.33	0	%100
21	M45	Y	-9.33	-9.33	0	%100
22	M46A	Y	-9.33	-9.33	0	%100
23	M47	Y	-9.83	-9.83	0	%100
24	M50A	Y	-5.439	-5.439	0	%100
25	M51C	Y	-5.439	-5.439	0	%100
26	M55	Y	-9.818	-9.818	0	%100
27	M56	Y	-9.818	-9.818	0	%100
28	M58A	Y	-9.83	-9.83	0	%100
29	M60	Y	-9.818	-9.818	0	%100
30	M61	Y	-9.818	-9.818	0	%100
31	M63	Y	-9.83	-9.83	0	%100
32	M70	Y	-4.816	-4.816	0	%100
33	M71	Y	-9.33	-9.33	0	%100
34	M72	Y	-9.33	-9.33	0	%100
35	M73	Y	-9.33	-9.33	0	%100
36	M74	Y	-9.83	-9.83	0	%100
37	M77A	Y	-5.439	-5.439	0	%100
38	M78	Y	-5.439	-5.439	0	%100
39	M82	Y	-9.818	-9.818	0	%100
40	M83A	Y	-9.818	-9.818	0	%100
41	M85A	Y	-9.83	-9.83	0	%100
42	M87	Y	-9.818	-9.818	0	%100
43	M88A	Y	-9.818	-9.818	0	%100
44	M90	Y	-9.83	-9.83	0	%100
45	M97	Y	-4.816	-4.816	0	%100
46	M98	Y	-6.363	-6.363	0	%100
47	MP3C	Y	-4.816	-4.816	0	%100
48	MP4C	Y	-4.816	-4.816	0	%100
49	MP2C	Y	-5.503	-5.503	0	%100
50	MP1C	Y	-4.816	-4.816	0	%100
51	M107	Y	-4.816	-4.816	0	%100
52	M114	Y	-6.363	-6.363	0	%100
53	MP3B	Y	-4.816	-4.816	0	%100
54	MP4B	Y	-4.816	-4.816	0	%100
55	MP2B	Y	-5.503	-5.503	0	%100
56	MP1B	Y	-4.816	-4.816	0	%100
57	M123A	Y	-4.816	-4.816	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-14.406	-14.406	0	%100
3	M4	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[ft,%]	End Location[ft,%]
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	-13.022	-13.022	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-10.281	-10.281	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	-10.281	-10.281	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	-12.446	-12.446	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	-10.281	-10.281	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	-13.022	-13.022	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	-25.974	-25.974	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	-3.606	-3.606	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	-3.606	-3.606	0	%100
23	M76	X	0	0	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	-6.614	-6.614	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	-6.966	-6.966	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	-6.614	-6.614	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	-6.966	-6.966	0	%100
35	M84B	X	0	0	0	%100
36	M84B	Z	-10.281	-10.281	0	%100
37	M123	X	0	0	0	%100
38	M123	Z	-7.54	-7.54	0	%100
39	M44	X	0	0	0	%100
40	M44	Z	-11.542	-11.542	0	%100
41	M45	X	0	0	0	%100
42	M45	Z	-3.256	-3.256	0	%100
43	M46A	X	0	0	0	%100
44	M46A	Z	-3.256	-3.256	0	%100
45	M47	X	0	0	0	%100
46	M47	Z	-6.494	-6.494	0	%100
47	M50A	X	0	0	0	%100
48	M50A	Z	-3.606	-3.606	0	%100
49	M51C	X	0	0	0	%100
50	M51C	Z	-14.423	-14.423	0	%100
51	M55	X	0	0	0	%100
52	M55	Z	-19.481	-19.481	0	%100
53	M56	X	0	0	0	%100
54	M56	Z	-6.614	-6.614	0	%100
55	M58A	X	0	0	0	%100
56	M58A	Z	-6.966	-6.966	0	%100
57	M60	X	0	0	0	%100
58	M60	Z	-19.481	-19.481	0	%100
59	M61	X	0	0	0	%100
60	M61	Z	-26.455	-26.455	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
61	M63	X	0	0	0	%100
62	M63	Z	-27.865	-27.865	0	%100
63	M70	X	0	0	0	%100
64	M70	Z	-1.885	-1.885	0	%100
65	M71	X	0	0	0	%100
66	M71	Z	-11.542	-11.542	0	%100
67	M72	X	0	0	0	%100
68	M72	Z	-3.256	-3.256	0	%100
69	M73	X	0	0	0	%100
70	M73	Z	-3.256	-3.256	0	%100
71	M74	X	0	0	0	%100
72	M74	Z	-6.494	-6.494	0	%100
73	M77A	X	0	0	0	%100
74	M77A	Z	-14.423	-14.423	0	%100
75	M78	X	0	0	0	%100
76	M78	Z	-3.606	-3.606	0	%100
77	M82	X	0	0	0	%100
78	M82	Z	-19.481	-19.481	0	%100
79	M83A	X	0	0	0	%100
80	M83A	Z	-26.455	-26.455	0	%100
81	M85A	X	0	0	0	%100
82	M85A	Z	-27.865	-27.865	0	%100
83	M87	X	0	0	0	%100
84	M87	Z	-19.481	-19.481	0	%100
85	M88A	X	0	0	0	%100
86	M88A	Z	-6.614	-6.614	0	%100
87	M90	X	0	0	0	%100
88	M90	Z	-6.966	-6.966	0	%100
89	M97	X	0	0	0	%100
90	M97	Z	-1.885	-1.885	0	%100
91	M98	X	0	0	0	%100
92	M98	Z	-3.602	-3.602	0	%100
93	MP3C	X	0	0	0	%100
94	MP3C	Z	-10.281	-10.281	0	%100
95	MP4C	X	0	0	0	%100
96	MP4C	Z	-10.281	-10.281	0	%100
97	MP2C	X	0	0	0	%100
98	MP2C	Z	-12.446	-12.446	0	%100
99	MP1C	X	0	0	0	%100
100	MP1C	Z	-10.281	-10.281	0	%100
101	M107	X	0	0	0	%100
102	M107	Z	-2.57	-2.57	0	%100
103	M114	X	0	0	0	%100
104	M114	Z	-3.602	-3.602	0	%100
105	MP3B	X	0	0	0	%100
106	MP3B	Z	-10.281	-10.281	0	%100
107	MP4B	X	0	0	0	%100
108	MP4B	Z	-10.281	-10.281	0	%100
109	MP2B	X	0	0	0	%100
110	MP2B	Z	-12.446	-12.446	0	%100
111	MP1B	X	0	0	0	%100
112	MP1B	Z	-10.281	-10.281	0	%100
113	M123A	X	0	0	0	%100
114	M123A	Z	-2.57	-2.57	0	%100

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

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

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	5.402	5.402	0	%100
2	M1	Z	-9.357	-9.357	0	%100
3	M4	X	1.924	1.924	0	%100
4	M4	Z	-3.332	-3.332	0	%100
5	M10	X	4.883	4.883	0	%100
6	M10	Z	-8.458	-8.458	0	%100
7	MP3A	X	5.141	5.141	0	%100
8	MP3A	Z	-8.904	-8.904	0	%100
9	MP4A	X	5.141	5.141	0	%100
10	MP4A	Z	-8.904	-8.904	0	%100
11	MP2A	X	6.223	6.223	0	%100
12	MP2A	Z	-10.778	-10.778	0	%100
13	MP1A	X	5.141	5.141	0	%100
14	MP1A	Z	-8.904	-8.904	0	%100
15	M43	X	4.883	4.883	0	%100
16	M43	Z	-8.458	-8.458	0	%100
17	M46	X	9.74	9.74	0	%100
18	M46	Z	-16.871	-16.871	0	%100
19	M51B	X	5.409	5.409	0	%100
20	M51B	Z	-9.368	-9.368	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	3.247	3.247	0	%100
24	M76	Z	-5.624	-5.624	0	%100
25	M77	X	9.921	9.921	0	%100
26	M77	Z	-17.183	-17.183	0	%100
27	M80	X	10.449	10.449	0	%100
28	M80	Z	-18.099	-18.099	0	%100
29	M84	X	3.247	3.247	0	%100
30	M84	Z	-5.624	-5.624	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	0	0	0	%100
35	M84B	X	3.856	3.856	0	%100
36	M84B	Z	-6.678	-6.678	0	%100
37	M123	X	2.828	2.828	0	%100
38	M123	Z	-4.898	-4.898	0	%100
39	M44	X	1.924	1.924	0	%100
40	M44	Z	-3.332	-3.332	0	%100
41	M45	X	4.883	4.883	0	%100
42	M45	Z	-8.458	-8.458	0	%100
43	M46A	X	4.883	4.883	0	%100
44	M46A	Z	-8.458	-8.458	0	%100
45	M47	X	9.74	9.74	0	%100
46	M47	Z	-16.871	-16.871	0	%100
47	M50A	X	0	0	0	%100
48	M50A	Z	0	0	0	%100
49	M51C	X	5.409	5.409	0	%100
50	M51C	Z	-9.368	-9.368	0	%100
51	M55	X	3.247	3.247	0	%100
52	M55	Z	-5.624	-5.624	0	%100
53	M56	X	0	0	0	%100
54	M56	Z	0	0	0	%100
55	M58A	X	0	0	0	%100
56	M58A	Z	0	0	0	%100
57	M60	X	3.247	3.247	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[ft,%]	End Location[ft,%]
58	M60	Z	-5.624	-5.624	0	%100
59	M61	X	9.921	9.921	0	%100
60	M61	Z	-17.183	-17.183	0	%100
61	M63	X	10.449	10.449	0	%100
62	M63	Z	-18.099	-18.099	0	%100
63	M70	X	2.828	2.828	0	%100
64	M70	Z	-4.898	-4.898	0	%100
65	M71	X	7.695	7.695	0	%100
66	M71	Z	-13.328	-13.328	0	%100
67	M72	X	0	0	0	%100
68	M72	Z	0	0	0	%100
69	M73	X	0	0	0	%100
70	M73	Z	0	0	0	%100
71	M74	X	0	0	0	%100
72	M74	Z	0	0	0	%100
73	M77A	X	5.409	5.409	0	%100
74	M77A	Z	-9.368	-9.368	0	%100
75	M78	X	5.409	5.409	0	%100
76	M78	Z	-9.368	-9.368	0	%100
77	M82	X	12.987	12.987	0	%100
78	M82	Z	-22.494	-22.494	0	%100
79	M83A	X	9.921	9.921	0	%100
80	M83A	Z	-17.183	-17.183	0	%100
81	M85A	X	10.449	10.449	0	%100
82	M85A	Z	-18.099	-18.099	0	%100
83	M87	X	12.987	12.987	0	%100
84	M87	Z	-22.494	-22.494	0	%100
85	M88A	X	9.921	9.921	0	%100
86	M88A	Z	-17.183	-17.183	0	%100
87	M90	X	10.449	10.449	0	%100
88	M90	Z	-18.099	-18.099	0	%100
89	M97	X	0	0	0	%100
90	M97	Z	0	0	0	%100
91	M98	X	5.402	5.402	0	%100
92	M98	Z	-9.357	-9.357	0	%100
93	MP3C	X	5.141	5.141	0	%100
94	MP3C	Z	-8.904	-8.904	0	%100
95	MP4C	X	5.141	5.141	0	%100
96	MP4C	Z	-8.904	-8.904	0	%100
97	MP2C	X	6.223	6.223	0	%100
98	MP2C	Z	-10.778	-10.778	0	%100
99	MP1C	X	5.141	5.141	0	%100
100	MP1C	Z	-8.904	-8.904	0	%100
101	M107	X	3.856	3.856	0	%100
102	M107	Z	-6.678	-6.678	0	%100
103	M114	X	0	0	0	%100
104	M114	Z	0	0	0	%100
105	MP3B	X	5.141	5.141	0	%100
106	MP3B	Z	-8.904	-8.904	0	%100
107	MP4B	X	5.141	5.141	0	%100
108	MP4B	Z	-8.904	-8.904	0	%100
109	MP2B	X	6.223	6.223	0	%100
110	MP2B	Z	-10.778	-10.778	0	%100
111	MP1B	X	5.141	5.141	0	%100
112	MP1B	Z	-8.904	-8.904	0	%100
113	M123A	X	0	0	0	%100
114	M123A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	3.119	3.119	0	%100
2	M1	Z	-1.801	-1.801	0	%100
3	M4	X	9.996	9.996	0	%100
4	M4	Z	-5.771	-5.771	0	%100
5	M10	X	2.819	2.819	0	%100
6	M10	Z	-1.628	-1.628	0	%100
7	MP3A	X	8.904	8.904	0	%100
8	MP3A	Z	-5.141	-5.141	0	%100
9	MP4A	X	8.904	8.904	0	%100
10	MP4A	Z	-5.141	-5.141	0	%100
11	MP2A	X	10.778	10.778	0	%100
12	MP2A	Z	-6.223	-6.223	0	%100
13	MP1A	X	8.904	8.904	0	%100
14	MP1A	Z	-5.141	-5.141	0	%100
15	M43	X	2.819	2.819	0	%100
16	M43	Z	-1.628	-1.628	0	%100
17	M46	X	5.624	5.624	0	%100
18	M46	Z	-3.247	-3.247	0	%100
19	M51B	X	12.491	12.491	0	%100
20	M51B	Z	-7.211	-7.211	0	%100
21	M52B	X	3.123	3.123	0	%100
22	M52B	Z	-1.803	-1.803	0	%100
23	M76	X	16.871	16.871	0	%100
24	M76	Z	-9.74	-9.74	0	%100
25	M77	X	22.911	22.911	0	%100
26	M77	Z	-13.228	-13.228	0	%100
27	M80	X	24.131	24.131	0	%100
28	M80	Z	-13.932	-13.932	0	%100
29	M84	X	16.871	16.871	0	%100
30	M84	Z	-9.74	-9.74	0	%100
31	M85	X	5.728	5.728	0	%100
32	M85	Z	-3.307	-3.307	0	%100
33	M91	X	6.033	6.033	0	%100
34	M91	Z	-3.483	-3.483	0	%100
35	M84B	X	2.226	2.226	0	%100
36	M84B	Z	-1.285	-1.285	0	%100
37	M123	X	1.633	1.633	0	%100
38	M123	Z	-.943	-.943	0	%100
39	M44	X	0	0	0	%100
40	M44	Z	0	0	0	%100
41	M45	X	11.277	11.277	0	%100
42	M45	Z	-6.511	-6.511	0	%100
43	M46A	X	11.277	11.277	0	%100
44	M46A	Z	-6.511	-6.511	0	%100
45	M47	X	22.494	22.494	0	%100
46	M47	Z	-12.987	-12.987	0	%100
47	M50A	X	3.123	3.123	0	%100
48	M50A	Z	-1.803	-1.803	0	%100
49	M51C	X	3.123	3.123	0	%100
50	M51C	Z	-1.803	-1.803	0	%100
51	M55	X	0	0	0	%100
52	M55	Z	0	0	0	%100
53	M56	X	5.728	5.728	0	%100
54	M56	Z	-3.307	-3.307	0	%100
55	M58A	X	6.033	6.033	0	%100
56	M58A	Z	-3.483	-3.483	0	%100
57	M60	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[ft,%]	End Location[ft,%]
58	M60	Z	0	0	0	%100
59	M61	X	5.728	5.728	0	%100
60	M61	Z	-3.307	-3.307	0	%100
61	M63	X	6.033	6.033	0	%100
62	M63	Z	-3.483	-3.483	0	%100
63	M70	X	6.53	6.53	0	%100
64	M70	Z	-3.77	-3.77	0	%100
65	M71	X	9.996	9.996	0	%100
66	M71	Z	-5.771	-5.771	0	%100
67	M72	X	2.819	2.819	0	%100
68	M72	Z	-1.628	-1.628	0	%100
69	M73	X	2.819	2.819	0	%100
70	M73	Z	-1.628	-1.628	0	%100
71	M74	X	5.624	5.624	0	%100
72	M74	Z	-3.247	-3.247	0	%100
73	M77A	X	3.123	3.123	0	%100
74	M77A	Z	-1.803	-1.803	0	%100
75	M78	X	12.491	12.491	0	%100
76	M78	Z	-7.211	-7.211	0	%100
77	M82	X	16.871	16.871	0	%100
78	M82	Z	-9.74	-9.74	0	%100
79	M83A	X	5.728	5.728	0	%100
80	M83A	Z	-3.307	-3.307	0	%100
81	M85A	X	6.033	6.033	0	%100
82	M85A	Z	-3.483	-3.483	0	%100
83	M87	X	16.871	16.871	0	%100
84	M87	Z	-9.74	-9.74	0	%100
85	M88A	X	22.911	22.911	0	%100
86	M88A	Z	-13.228	-13.228	0	%100
87	M90	X	24.131	24.131	0	%100
88	M90	Z	-13.932	-13.932	0	%100
89	M97	X	1.633	1.633	0	%100
90	M97	Z	-.943	-.943	0	%100
91	M98	X	12.476	12.476	0	%100
92	M98	Z	-7.203	-7.203	0	%100
93	MP3C	X	8.904	8.904	0	%100
94	MP3C	Z	-5.141	-5.141	0	%100
95	MP4C	X	8.904	8.904	0	%100
96	MP4C	Z	-5.141	-5.141	0	%100
97	MP2C	X	10.778	10.778	0	%100
98	MP2C	Z	-6.223	-6.223	0	%100
99	MP1C	X	8.904	8.904	0	%100
100	MP1C	Z	-5.141	-5.141	0	%100
101	M107	X	8.904	8.904	0	%100
102	M107	Z	-5.141	-5.141	0	%100
103	M114	X	3.119	3.119	0	%100
104	M114	Z	-1.801	-1.801	0	%100
105	MP3B	X	8.904	8.904	0	%100
106	MP3B	Z	-5.141	-5.141	0	%100
107	MP4B	X	8.904	8.904	0	%100
108	MP4B	Z	-5.141	-5.141	0	%100
109	MP2B	X	10.778	10.778	0	%100
110	MP2B	Z	-6.223	-6.223	0	%100
111	MP1B	X	8.904	8.904	0	%100
112	MP1B	Z	-5.141	-5.141	0	%100
113	M123A	X	2.226	2.226	0	%100
114	M123A	Z	-1.285	-1.285	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[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	15.39	15.39	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	10.281	10.281	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	10.281	10.281	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	12.446	12.446	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	10.281	10.281	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	10.817	10.817	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	10.817	10.817	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	25.974	25.974	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	19.841	19.841	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	20.898	20.898	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	25.974	25.974	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	19.841	19.841	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	20.898	20.898	0	%100
34	M91	Z	0	0	0	%100
35	M84B	X	0	0	0	%100
36	M84B	Z	0	0	0	%100
37	M123	X	0	0	0	%100
38	M123	Z	0	0	0	%100
39	M44	X	3.847	3.847	0	%100
40	M44	Z	0	0	0	%100
41	M45	X	9.767	9.767	0	%100
42	M45	Z	0	0	0	%100
43	M46A	X	9.767	9.767	0	%100
44	M46A	Z	0	0	0	%100
45	M47	X	19.481	19.481	0	%100
46	M47	Z	0	0	0	%100
47	M50A	X	10.817	10.817	0	%100
48	M50A	Z	0	0	0	%100
49	M51C	X	0	0	0	%100
50	M51C	Z	0	0	0	%100
51	M55	X	6.494	6.494	0	%100
52	M55	Z	0	0	0	%100
53	M56	X	19.841	19.841	0	%100
54	M56	Z	0	0	0	%100
55	M58A	X	20.898	20.898	0	%100
56	M58A	Z	0	0	0	%100
57	M60	X	6.494	6.494	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[ft,%]	End Location[ft,%]
58	M60	Z	0	0	0	%100
59	M61	X	0	0	0	%100
60	M61	Z	0	0	0	%100
61	M63	X	0	0	0	%100
62	M63	Z	0	0	0	%100
63	M70	X	5.655	5.655	0	%100
64	M70	Z	0	0	0	%100
65	M71	X	3.847	3.847	0	%100
66	M71	Z	0	0	0	%100
67	M72	X	9.767	9.767	0	%100
68	M72	Z	0	0	0	%100
69	M73	X	9.767	9.767	0	%100
70	M73	Z	0	0	0	%100
71	M74	X	19.481	19.481	0	%100
72	M74	Z	0	0	0	%100
73	M77A	X	0	0	0	%100
74	M77A	Z	0	0	0	%100
75	M78	X	10.817	10.817	0	%100
76	M78	Z	0	0	0	%100
77	M82	X	6.494	6.494	0	%100
78	M82	Z	0	0	0	%100
79	M83A	X	0	0	0	%100
80	M83A	Z	0	0	0	%100
81	M85A	X	0	0	0	%100
82	M85A	Z	0	0	0	%100
83	M87	X	6.494	6.494	0	%100
84	M87	Z	0	0	0	%100
85	M88A	X	19.841	19.841	0	%100
86	M88A	Z	0	0	0	%100
87	M90	X	20.898	20.898	0	%100
88	M90	Z	0	0	0	%100
89	M97	X	5.655	5.655	0	%100
90	M97	Z	0	0	0	%100
91	M98	X	10.804	10.804	0	%100
92	M98	Z	0	0	0	%100
93	MP3C	X	10.281	10.281	0	%100
94	MP3C	Z	0	0	0	%100
95	MP4C	X	10.281	10.281	0	%100
96	MP4C	Z	0	0	0	%100
97	MP2C	X	12.446	12.446	0	%100
98	MP2C	Z	0	0	0	%100
99	MP1C	X	10.281	10.281	0	%100
100	MP1C	Z	0	0	0	%100
101	M107	X	7.711	7.711	0	%100
102	M107	Z	0	0	0	%100
103	M114	X	10.804	10.804	0	%100
104	M114	Z	0	0	0	%100
105	MP3B	X	10.281	10.281	0	%100
106	MP3B	Z	0	0	0	%100
107	MP4B	X	10.281	10.281	0	%100
108	MP4B	Z	0	0	0	%100
109	MP2B	X	12.446	12.446	0	%100
110	MP2B	Z	0	0	0	%100
111	MP1B	X	10.281	10.281	0	%100
112	MP1B	Z	0	0	0	%100
113	M123A	X	7.711	7.711	0	%100
114	M123A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	3.119	3.119	0	%100
2	M1	Z	1.801	1.801	0	%100
3	M4	X	9.996	9.996	0	%100
4	M4	Z	5.771	5.771	0	%100
5	M10	X	2.819	2.819	0	%100
6	M10	Z	1.628	1.628	0	%100
7	MP3A	X	8.904	8.904	0	%100
8	MP3A	Z	5.141	5.141	0	%100
9	MP4A	X	8.904	8.904	0	%100
10	MP4A	Z	5.141	5.141	0	%100
11	MP2A	X	10.778	10.778	0	%100
12	MP2A	Z	6.223	6.223	0	%100
13	MP1A	X	8.904	8.904	0	%100
14	MP1A	Z	5.141	5.141	0	%100
15	M43	X	2.819	2.819	0	%100
16	M43	Z	1.628	1.628	0	%100
17	M46	X	5.624	5.624	0	%100
18	M46	Z	3.247	3.247	0	%100
19	M51B	X	3.123	3.123	0	%100
20	M51B	Z	1.803	1.803	0	%100
21	M52B	X	12.491	12.491	0	%100
22	M52B	Z	7.211	7.211	0	%100
23	M76	X	16.871	16.871	0	%100
24	M76	Z	9.74	9.74	0	%100
25	M77	X	5.728	5.728	0	%100
26	M77	Z	3.307	3.307	0	%100
27	M80	X	6.033	6.033	0	%100
28	M80	Z	3.483	3.483	0	%100
29	M84	X	16.871	16.871	0	%100
30	M84	Z	9.74	9.74	0	%100
31	M85	X	22.911	22.911	0	%100
32	M85	Z	13.228	13.228	0	%100
33	M91	X	24.131	24.131	0	%100
34	M91	Z	13.932	13.932	0	%100
35	M84B	X	2.226	2.226	0	%100
36	M84B	Z	1.285	1.285	0	%100
37	M123	X	1.633	1.633	0	%100
38	M123	Z	.943	.943	0	%100
39	M44	X	9.996	9.996	0	%100
40	M44	Z	5.771	5.771	0	%100
41	M45	X	2.819	2.819	0	%100
42	M45	Z	1.628	1.628	0	%100
43	M46A	X	2.819	2.819	0	%100
44	M46A	Z	1.628	1.628	0	%100
45	M47	X	5.624	5.624	0	%100
46	M47	Z	3.247	3.247	0	%100
47	M50A	X	12.491	12.491	0	%100
48	M50A	Z	7.211	7.211	0	%100
49	M51C	X	3.123	3.123	0	%100
50	M51C	Z	1.803	1.803	0	%100
51	M55	X	16.871	16.871	0	%100
52	M55	Z	9.74	9.74	0	%100
53	M56	X	22.911	22.911	0	%100
54	M56	Z	13.228	13.228	0	%100
55	M58A	X	24.131	24.131	0	%100
56	M58A	Z	13.932	13.932	0	%100
57	M60	X	16.871	16.871	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[ft,%]	End Location[ft,%]
58	M60	Z	9.74	9.74	0	%100
59	M61	X	5.728	5.728	0	%100
60	M61	Z	3.307	3.307	0	%100
61	M63	X	6.033	6.033	0	%100
62	M63	Z	3.483	3.483	0	%100
63	M70	X	1.633	1.633	0	%100
64	M70	Z	.943	.943	0	%100
65	M71	X	0	0	0	%100
66	M71	Z	0	0	0	%100
67	M72	X	11.277	11.277	0	%100
68	M72	Z	6.511	6.511	0	%100
69	M73	X	11.277	11.277	0	%100
70	M73	Z	6.511	6.511	0	%100
71	M74	X	22.494	22.494	0	%100
72	M74	Z	12.987	12.987	0	%100
73	M77A	X	3.123	3.123	0	%100
74	M77A	Z	1.803	1.803	0	%100
75	M78	X	3.123	3.123	0	%100
76	M78	Z	1.803	1.803	0	%100
77	M82	X	0	0	0	%100
78	M82	Z	0	0	0	%100
79	M83A	X	5.728	5.728	0	%100
80	M83A	Z	3.307	3.307	0	%100
81	M85A	X	6.033	6.033	0	%100
82	M85A	Z	3.483	3.483	0	%100
83	M87	X	0	0	0	%100
84	M87	Z	0	0	0	%100
85	M88A	X	5.728	5.728	0	%100
86	M88A	Z	3.307	3.307	0	%100
87	M90	X	6.033	6.033	0	%100
88	M90	Z	3.483	3.483	0	%100
89	M97	X	6.53	6.53	0	%100
90	M97	Z	3.77	3.77	0	%100
91	M98	X	3.119	3.119	0	%100
92	M98	Z	1.801	1.801	0	%100
93	MP3C	X	8.904	8.904	0	%100
94	MP3C	Z	5.141	5.141	0	%100
95	MP4C	X	8.904	8.904	0	%100
96	MP4C	Z	5.141	5.141	0	%100
97	MP2C	X	10.778	10.778	0	%100
98	MP2C	Z	6.223	6.223	0	%100
99	MP1C	X	8.904	8.904	0	%100
100	MP1C	Z	5.141	5.141	0	%100
101	M107	X	2.226	2.226	0	%100
102	M107	Z	1.285	1.285	0	%100
103	M114	X	12.476	12.476	0	%100
104	M114	Z	7.203	7.203	0	%100
105	MP3B	X	8.904	8.904	0	%100
106	MP3B	Z	5.141	5.141	0	%100
107	MP4B	X	8.904	8.904	0	%100
108	MP4B	Z	5.141	5.141	0	%100
109	MP2B	X	10.778	10.778	0	%100
110	MP2B	Z	6.223	6.223	0	%100
111	MP1B	X	8.904	8.904	0	%100
112	MP1B	Z	5.141	5.141	0	%100
113	M123A	X	8.904	8.904	0	%100
114	M123A	Z	5.141	5.141	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	5.402	5.402	0	%100
2	M1	Z	9.357	9.357	0	%100
3	M4	X	1.924	1.924	0	%100
4	M4	Z	3.332	3.332	0	%100
5	M10	X	4.883	4.883	0	%100
6	M10	Z	8.458	8.458	0	%100
7	MP3A	X	5.141	5.141	0	%100
8	MP3A	Z	8.904	8.904	0	%100
9	MP4A	X	5.141	5.141	0	%100
10	MP4A	Z	8.904	8.904	0	%100
11	MP2A	X	6.223	6.223	0	%100
12	MP2A	Z	10.778	10.778	0	%100
13	MP1A	X	5.141	5.141	0	%100
14	MP1A	Z	8.904	8.904	0	%100
15	M43	X	4.883	4.883	0	%100
16	M43	Z	8.458	8.458	0	%100
17	M46	X	9.74	9.74	0	%100
18	M46	Z	16.871	16.871	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	5.409	5.409	0	%100
22	M52B	Z	9.368	9.368	0	%100
23	M76	X	3.247	3.247	0	%100
24	M76	Z	5.624	5.624	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	3.247	3.247	0	%100
30	M84	Z	5.624	5.624	0	%100
31	M85	X	9.921	9.921	0	%100
32	M85	Z	17.183	17.183	0	%100
33	M91	X	10.449	10.449	0	%100
34	M91	Z	18.099	18.099	0	%100
35	M84B	X	3.856	3.856	0	%100
36	M84B	Z	6.678	6.678	0	%100
37	M123	X	2.828	2.828	0	%100
38	M123	Z	4.898	4.898	0	%100
39	M44	X	7.695	7.695	0	%100
40	M44	Z	13.328	13.328	0	%100
41	M45	X	0	0	0	%100
42	M45	Z	0	0	0	%100
43	M46A	X	0	0	0	%100
44	M46A	Z	0	0	0	%100
45	M47	X	0	0	0	%100
46	M47	Z	0	0	0	%100
47	M50A	X	5.409	5.409	0	%100
48	M50A	Z	9.368	9.368	0	%100
49	M51C	X	5.409	5.409	0	%100
50	M51C	Z	9.368	9.368	0	%100
51	M55	X	12.987	12.987	0	%100
52	M55	Z	22.494	22.494	0	%100
53	M56	X	9.921	9.921	0	%100
54	M56	Z	17.183	17.183	0	%100
55	M58A	X	10.449	10.449	0	%100
56	M58A	Z	18.099	18.099	0	%100
57	M60	X	12.987	12.987	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M60	Z	22.494	22.494	0	%100
59	M61	X	9.921	9.921	0	%100
60	M61	Z	17.183	17.183	0	%100
61	M63	X	10.449	10.449	0	%100
62	M63	Z	18.099	18.099	0	%100
63	M70	X	0	0	0	%100
64	M70	Z	0	0	0	%100
65	M71	X	1.924	1.924	0	%100
66	M71	Z	3.332	3.332	0	%100
67	M72	X	4.883	4.883	0	%100
68	M72	Z	8.458	8.458	0	%100
69	M73	X	4.883	4.883	0	%100
70	M73	Z	8.458	8.458	0	%100
71	M74	X	9.74	9.74	0	%100
72	M74	Z	16.871	16.871	0	%100
73	M77A	X	5.409	5.409	0	%100
74	M77A	Z	9.368	9.368	0	%100
75	M78	X	0	0	0	%100
76	M78	Z	0	0	0	%100
77	M82	X	3.247	3.247	0	%100
78	M82	Z	5.624	5.624	0	%100
79	M83A	X	9.921	9.921	0	%100
80	M83A	Z	17.183	17.183	0	%100
81	M85A	X	10.449	10.449	0	%100
82	M85A	Z	18.099	18.099	0	%100
83	M87	X	3.247	3.247	0	%100
84	M87	Z	5.624	5.624	0	%100
85	M88A	X	0	0	0	%100
86	M88A	Z	0	0	0	%100
87	M90	X	0	0	0	%100
88	M90	Z	0	0	0	%100
89	M97	X	2.828	2.828	0	%100
90	M97	Z	4.898	4.898	0	%100
91	M98	X	0	0	0	%100
92	M98	Z	0	0	0	%100
93	MP3C	X	5.141	5.141	0	%100
94	MP3C	Z	8.904	8.904	0	%100
95	MP4C	X	5.141	5.141	0	%100
96	MP4C	Z	8.904	8.904	0	%100
97	MP2C	X	6.223	6.223	0	%100
98	MP2C	Z	10.778	10.778	0	%100
99	MP1C	X	5.141	5.141	0	%100
100	MP1C	Z	8.904	8.904	0	%100
101	M107	X	0	0	0	%100
102	M107	Z	0	0	0	%100
103	M114	X	5.402	5.402	0	%100
104	M114	Z	9.357	9.357	0	%100
105	MP3B	X	5.141	5.141	0	%100
106	MP3B	Z	8.904	8.904	0	%100
107	MP4B	X	5.141	5.141	0	%100
108	MP4B	Z	8.904	8.904	0	%100
109	MP2B	X	6.223	6.223	0	%100
110	MP2B	Z	10.778	10.778	0	%100
111	MP1B	X	5.141	5.141	0	%100
112	MP1B	Z	8.904	8.904	0	%100
113	M123A	X	3.856	3.856	0	%100
114	M123A	Z	6.678	6.678	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	14.406	14.406	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	13.022	13.022	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	10.281	10.281	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	10.281	10.281	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	12.446	12.446	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	10.281	10.281	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	13.022	13.022	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	25.974	25.974	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	3.606	3.606	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	3.606	3.606	0	%100
23	M76	X	0	0	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	6.614	6.614	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	6.966	6.966	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	6.614	6.614	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	6.966	6.966	0	%100
35	M84B	X	0	0	0	%100
36	M84B	Z	10.281	10.281	0	%100
37	M123	X	0	0	0	%100
38	M123	Z	7.54	7.54	0	%100
39	M44	X	0	0	0	%100
40	M44	Z	11.542	11.542	0	%100
41	M45	X	0	0	0	%100
42	M45	Z	3.256	3.256	0	%100
43	M46A	X	0	0	0	%100
44	M46A	Z	3.256	3.256	0	%100
45	M47	X	0	0	0	%100
46	M47	Z	6.494	6.494	0	%100
47	M50A	X	0	0	0	%100
48	M50A	Z	3.606	3.606	0	%100
49	M51C	X	0	0	0	%100
50	M51C	Z	14.423	14.423	0	%100
51	M55	X	0	0	0	%100
52	M55	Z	19.481	19.481	0	%100
53	M56	X	0	0	0	%100
54	M56	Z	6.614	6.614	0	%100
55	M58A	X	0	0	0	%100
56	M58A	Z	6.966	6.966	0	%100
57	M60	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[ft,%]	End Location[ft,%]
58	M60	Z	19.481	19.481	0	%100
59	M61	X	0	0	0	%100
60	M61	Z	26.455	26.455	0	%100
61	M63	X	0	0	0	%100
62	M63	Z	27.865	27.865	0	%100
63	M70	X	0	0	0	%100
64	M70	Z	1.885	1.885	0	%100
65	M71	X	0	0	0	%100
66	M71	Z	11.542	11.542	0	%100
67	M72	X	0	0	0	%100
68	M72	Z	3.256	3.256	0	%100
69	M73	X	0	0	0	%100
70	M73	Z	3.256	3.256	0	%100
71	M74	X	0	0	0	%100
72	M74	Z	6.494	6.494	0	%100
73	M77A	X	0	0	0	%100
74	M77A	Z	14.423	14.423	0	%100
75	M78	X	0	0	0	%100
76	M78	Z	3.606	3.606	0	%100
77	M82	X	0	0	0	%100
78	M82	Z	19.481	19.481	0	%100
79	M83A	X	0	0	0	%100
80	M83A	Z	26.455	26.455	0	%100
81	M85A	X	0	0	0	%100
82	M85A	Z	27.865	27.865	0	%100
83	M87	X	0	0	0	%100
84	M87	Z	19.481	19.481	0	%100
85	M88A	X	0	0	0	%100
86	M88A	Z	6.614	6.614	0	%100
87	M90	X	0	0	0	%100
88	M90	Z	6.966	6.966	0	%100
89	M97	X	0	0	0	%100
90	M97	Z	1.885	1.885	0	%100
91	M98	X	0	0	0	%100
92	M98	Z	3.602	3.602	0	%100
93	MP3C	X	0	0	0	%100
94	MP3C	Z	10.281	10.281	0	%100
95	MP4C	X	0	0	0	%100
96	MP4C	Z	10.281	10.281	0	%100
97	MP2C	X	0	0	0	%100
98	MP2C	Z	12.446	12.446	0	%100
99	MP1C	X	0	0	0	%100
100	MP1C	Z	10.281	10.281	0	%100
101	M107	X	0	0	0	%100
102	M107	Z	2.57	2.57	0	%100
103	M114	X	0	0	0	%100
104	M114	Z	3.602	3.602	0	%100
105	MP3B	X	0	0	0	%100
106	MP3B	Z	10.281	10.281	0	%100
107	MP4B	X	0	0	0	%100
108	MP4B	Z	10.281	10.281	0	%100
109	MP2B	X	0	0	0	%100
110	MP2B	Z	12.446	12.446	0	%100
111	MP1B	X	0	0	0	%100
112	MP1B	Z	10.281	10.281	0	%100
113	M123A	X	0	0	0	%100
114	M123A	Z	2.57	2.57	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-5.402	-5.402	0	%100
2	M1	Z	9.357	9.357	0	%100
3	M4	X	-1.924	-1.924	0	%100
4	M4	Z	3.332	3.332	0	%100
5	M10	X	-4.883	-4.883	0	%100
6	M10	Z	8.458	8.458	0	%100
7	MP3A	X	-5.141	-5.141	0	%100
8	MP3A	Z	8.904	8.904	0	%100
9	MP4A	X	-5.141	-5.141	0	%100
10	MP4A	Z	8.904	8.904	0	%100
11	MP2A	X	-6.223	-6.223	0	%100
12	MP2A	Z	10.778	10.778	0	%100
13	MP1A	X	-5.141	-5.141	0	%100
14	MP1A	Z	8.904	8.904	0	%100
15	M43	X	-4.883	-4.883	0	%100
16	M43	Z	8.458	8.458	0	%100
17	M46	X	-9.74	-9.74	0	%100
18	M46	Z	16.871	16.871	0	%100
19	M51B	X	-5.409	-5.409	0	%100
20	M51B	Z	9.368	9.368	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-3.247	-3.247	0	%100
24	M76	Z	5.624	5.624	0	%100
25	M77	X	-9.921	-9.921	0	%100
26	M77	Z	17.183	17.183	0	%100
27	M80	X	-10.449	-10.449	0	%100
28	M80	Z	18.099	18.099	0	%100
29	M84	X	-3.247	-3.247	0	%100
30	M84	Z	5.624	5.624	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	0	0	0	%100
35	M84B	X	-3.856	-3.856	0	%100
36	M84B	Z	6.678	6.678	0	%100
37	M123	X	-2.828	-2.828	0	%100
38	M123	Z	4.898	4.898	0	%100
39	M44	X	-1.924	-1.924	0	%100
40	M44	Z	3.332	3.332	0	%100
41	M45	X	-4.883	-4.883	0	%100
42	M45	Z	8.458	8.458	0	%100
43	M46A	X	-4.883	-4.883	0	%100
44	M46A	Z	8.458	8.458	0	%100
45	M47	X	-9.74	-9.74	0	%100
46	M47	Z	16.871	16.871	0	%100
47	M50A	X	0	0	0	%100
48	M50A	Z	0	0	0	%100
49	M51C	X	-5.409	-5.409	0	%100
50	M51C	Z	9.368	9.368	0	%100
51	M55	X	-3.247	-3.247	0	%100
52	M55	Z	5.624	5.624	0	%100
53	M56	X	0	0	0	%100
54	M56	Z	0	0	0	%100
55	M58A	X	0	0	0	%100
56	M58A	Z	0	0	0	%100
57	M60	X	-3.247	-3.247	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M60	Z	5.624	5.624	0	%100
59	M61	X	-9.921	-9.921	0	%100
60	M61	Z	17.183	17.183	0	%100
61	M63	X	-10.449	-10.449	0	%100
62	M63	Z	18.099	18.099	0	%100
63	M70	X	-2.828	-2.828	0	%100
64	M70	Z	4.898	4.898	0	%100
65	M71	X	-7.695	-7.695	0	%100
66	M71	Z	13.328	13.328	0	%100
67	M72	X	0	0	0	%100
68	M72	Z	0	0	0	%100
69	M73	X	0	0	0	%100
70	M73	Z	0	0	0	%100
71	M74	X	0	0	0	%100
72	M74	Z	0	0	0	%100
73	M77A	X	-5.409	-5.409	0	%100
74	M77A	Z	9.368	9.368	0	%100
75	M78	X	-5.409	-5.409	0	%100
76	M78	Z	9.368	9.368	0	%100
77	M82	X	-12.987	-12.987	0	%100
78	M82	Z	22.494	22.494	0	%100
79	M83A	X	-9.921	-9.921	0	%100
80	M83A	Z	17.183	17.183	0	%100
81	M85A	X	-10.449	-10.449	0	%100
82	M85A	Z	18.099	18.099	0	%100
83	M87	X	-12.987	-12.987	0	%100
84	M87	Z	22.494	22.494	0	%100
85	M88A	X	-9.921	-9.921	0	%100
86	M88A	Z	17.183	17.183	0	%100
87	M90	X	-10.449	-10.449	0	%100
88	M90	Z	18.099	18.099	0	%100
89	M97	X	0	0	0	%100
90	M97	Z	0	0	0	%100
91	M98	X	-5.402	-5.402	0	%100
92	M98	Z	9.357	9.357	0	%100
93	MP3C	X	-5.141	-5.141	0	%100
94	MP3C	Z	8.904	8.904	0	%100
95	MP4C	X	-5.141	-5.141	0	%100
96	MP4C	Z	8.904	8.904	0	%100
97	MP2C	X	-6.223	-6.223	0	%100
98	MP2C	Z	10.778	10.778	0	%100
99	MP1C	X	-5.141	-5.141	0	%100
100	MP1C	Z	8.904	8.904	0	%100
101	M107	X	-3.856	-3.856	0	%100
102	M107	Z	6.678	6.678	0	%100
103	M114	X	0	0	0	%100
104	M114	Z	0	0	0	%100
105	MP3B	X	-5.141	-5.141	0	%100
106	MP3B	Z	8.904	8.904	0	%100
107	MP4B	X	-5.141	-5.141	0	%100
108	MP4B	Z	8.904	8.904	0	%100
109	MP2B	X	-6.223	-6.223	0	%100
110	MP2B	Z	10.778	10.778	0	%100
111	MP1B	X	-5.141	-5.141	0	%100
112	MP1B	Z	8.904	8.904	0	%100
113	M123A	X	0	0	0	%100
114	M123A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-3.119	-3.119	0	%100
2	M1	Z	1.801	1.801	0	%100
3	M4	X	-9.996	-9.996	0	%100
4	M4	Z	5.771	5.771	0	%100
5	M10	X	-2.819	-2.819	0	%100
6	M10	Z	1.628	1.628	0	%100
7	MP3A	X	-8.904	-8.904	0	%100
8	MP3A	Z	5.141	5.141	0	%100
9	MP4A	X	-8.904	-8.904	0	%100
10	MP4A	Z	5.141	5.141	0	%100
11	MP2A	X	-10.778	-10.778	0	%100
12	MP2A	Z	6.223	6.223	0	%100
13	MP1A	X	-8.904	-8.904	0	%100
14	MP1A	Z	5.141	5.141	0	%100
15	M43	X	-2.819	-2.819	0	%100
16	M43	Z	1.628	1.628	0	%100
17	M46	X	-5.624	-5.624	0	%100
18	M46	Z	3.247	3.247	0	%100
19	M51B	X	-12.491	-12.491	0	%100
20	M51B	Z	7.211	7.211	0	%100
21	M52B	X	-3.123	-3.123	0	%100
22	M52B	Z	1.803	1.803	0	%100
23	M76	X	-16.871	-16.871	0	%100
24	M76	Z	9.74	9.74	0	%100
25	M77	X	-22.911	-22.911	0	%100
26	M77	Z	13.228	13.228	0	%100
27	M80	X	-24.131	-24.131	0	%100
28	M80	Z	13.932	13.932	0	%100
29	M84	X	-16.871	-16.871	0	%100
30	M84	Z	9.74	9.74	0	%100
31	M85	X	-5.728	-5.728	0	%100
32	M85	Z	3.307	3.307	0	%100
33	M91	X	-6.033	-6.033	0	%100
34	M91	Z	3.483	3.483	0	%100
35	M84B	X	-2.226	-2.226	0	%100
36	M84B	Z	1.285	1.285	0	%100
37	M123	X	-1.633	-1.633	0	%100
38	M123	Z	.943	.943	0	%100
39	M44	X	0	0	0	%100
40	M44	Z	0	0	0	%100
41	M45	X	-11.277	-11.277	0	%100
42	M45	Z	6.511	6.511	0	%100
43	M46A	X	-11.277	-11.277	0	%100
44	M46A	Z	6.511	6.511	0	%100
45	M47	X	-22.494	-22.494	0	%100
46	M47	Z	12.987	12.987	0	%100
47	M50A	X	-3.123	-3.123	0	%100
48	M50A	Z	1.803	1.803	0	%100
49	M51C	X	-3.123	-3.123	0	%100
50	M51C	Z	1.803	1.803	0	%100
51	M55	X	0	0	0	%100
52	M55	Z	0	0	0	%100
53	M56	X	-5.728	-5.728	0	%100
54	M56	Z	3.307	3.307	0	%100
55	M58A	X	-6.033	-6.033	0	%100
56	M58A	Z	3.483	3.483	0	%100
57	M60	X	0	0	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[ft,%]	End Location[ft,%]
58	M60	Z	0	0	0	%100
59	M61	X	-5.728	-5.728	0	%100
60	M61	Z	3.307	3.307	0	%100
61	M63	X	-6.033	-6.033	0	%100
62	M63	Z	3.483	3.483	0	%100
63	M70	X	-6.53	-6.53	0	%100
64	M70	Z	3.77	3.77	0	%100
65	M71	X	-9.996	-9.996	0	%100
66	M71	Z	5.771	5.771	0	%100
67	M72	X	-2.819	-2.819	0	%100
68	M72	Z	1.628	1.628	0	%100
69	M73	X	-2.819	-2.819	0	%100
70	M73	Z	1.628	1.628	0	%100
71	M74	X	-5.624	-5.624	0	%100
72	M74	Z	3.247	3.247	0	%100
73	M77A	X	-3.123	-3.123	0	%100
74	M77A	Z	1.803	1.803	0	%100
75	M78	X	-12.491	-12.491	0	%100
76	M78	Z	7.211	7.211	0	%100
77	M82	X	-16.871	-16.871	0	%100
78	M82	Z	9.74	9.74	0	%100
79	M83A	X	-5.728	-5.728	0	%100
80	M83A	Z	3.307	3.307	0	%100
81	M85A	X	-6.033	-6.033	0	%100
82	M85A	Z	3.483	3.483	0	%100
83	M87	X	-16.871	-16.871	0	%100
84	M87	Z	9.74	9.74	0	%100
85	M88A	X	-22.911	-22.911	0	%100
86	M88A	Z	13.228	13.228	0	%100
87	M90	X	-24.131	-24.131	0	%100
88	M90	Z	13.932	13.932	0	%100
89	M97	X	-1.633	-1.633	0	%100
90	M97	Z	.943	.943	0	%100
91	M98	X	-12.476	-12.476	0	%100
92	M98	Z	7.203	7.203	0	%100
93	MP3C	X	-8.904	-8.904	0	%100
94	MP3C	Z	5.141	5.141	0	%100
95	MP4C	X	-8.904	-8.904	0	%100
96	MP4C	Z	5.141	5.141	0	%100
97	MP2C	X	-10.778	-10.778	0	%100
98	MP2C	Z	6.223	6.223	0	%100
99	MP1C	X	-8.904	-8.904	0	%100
100	MP1C	Z	5.141	5.141	0	%100
101	M107	X	-8.904	-8.904	0	%100
102	M107	Z	5.141	5.141	0	%100
103	M114	X	-3.119	-3.119	0	%100
104	M114	Z	1.801	1.801	0	%100
105	MP3B	X	-8.904	-8.904	0	%100
106	MP3B	Z	5.141	5.141	0	%100
107	MP4B	X	-8.904	-8.904	0	%100
108	MP4B	Z	5.141	5.141	0	%100
109	MP2B	X	-10.778	-10.778	0	%100
110	MP2B	Z	6.223	6.223	0	%100
111	MP1B	X	-8.904	-8.904	0	%100
112	MP1B	Z	5.141	5.141	0	%100
113	M123A	X	-2.226	-2.226	0	%100
114	M123A	Z	1.285	1.285	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	-15.39	-15.39	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	-10.281	-10.281	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	-10.281	-10.281	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	-12.446	-12.446	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	-10.281	-10.281	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	-10.817	-10.817	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-10.817	-10.817	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-25.974	-25.974	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	-19.841	-19.841	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	-20.898	-20.898	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	-25.974	-25.974	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	-19.841	-19.841	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	-20.898	-20.898	0	%100
34	M91	Z	0	0	0	%100
35	M84B	X	0	0	0	%100
36	M84B	Z	0	0	0	%100
37	M123	X	0	0	0	%100
38	M123	Z	0	0	0	%100
39	M44	X	-3.847	-3.847	0	%100
40	M44	Z	0	0	0	%100
41	M45	X	-9.767	-9.767	0	%100
42	M45	Z	0	0	0	%100
43	M46A	X	-9.767	-9.767	0	%100
44	M46A	Z	0	0	0	%100
45	M47	X	-19.481	-19.481	0	%100
46	M47	Z	0	0	0	%100
47	M50A	X	-10.817	-10.817	0	%100
48	M50A	Z	0	0	0	%100
49	M51C	X	0	0	0	%100
50	M51C	Z	0	0	0	%100
51	M55	X	-6.494	-6.494	0	%100
52	M55	Z	0	0	0	%100
53	M56	X	-19.841	-19.841	0	%100
54	M56	Z	0	0	0	%100
55	M58A	X	-20.898	-20.898	0	%100
56	M58A	Z	0	0	0	%100
57	M60	X	-6.494	-6.494	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M60	Z	0	0	0	%100
59	M61	X	0	0	0	%100
60	M61	Z	0	0	0	%100
61	M63	X	0	0	0	%100
62	M63	Z	0	0	0	%100
63	M70	X	-5.655	-5.655	0	%100
64	M70	Z	0	0	0	%100
65	M71	X	-3.847	-3.847	0	%100
66	M71	Z	0	0	0	%100
67	M72	X	-9.767	-9.767	0	%100
68	M72	Z	0	0	0	%100
69	M73	X	-9.767	-9.767	0	%100
70	M73	Z	0	0	0	%100
71	M74	X	-19.481	-19.481	0	%100
72	M74	Z	0	0	0	%100
73	M77A	X	0	0	0	%100
74	M77A	Z	0	0	0	%100
75	M78	X	-10.817	-10.817	0	%100
76	M78	Z	0	0	0	%100
77	M82	X	-6.494	-6.494	0	%100
78	M82	Z	0	0	0	%100
79	M83A	X	0	0	0	%100
80	M83A	Z	0	0	0	%100
81	M85A	X	0	0	0	%100
82	M85A	Z	0	0	0	%100
83	M87	X	-6.494	-6.494	0	%100
84	M87	Z	0	0	0	%100
85	M88A	X	-19.841	-19.841	0	%100
86	M88A	Z	0	0	0	%100
87	M90	X	-20.898	-20.898	0	%100
88	M90	Z	0	0	0	%100
89	M97	X	-5.655	-5.655	0	%100
90	M97	Z	0	0	0	%100
91	M98	X	-10.804	-10.804	0	%100
92	M98	Z	0	0	0	%100
93	MP3C	X	-10.281	-10.281	0	%100
94	MP3C	Z	0	0	0	%100
95	MP4C	X	-10.281	-10.281	0	%100
96	MP4C	Z	0	0	0	%100
97	MP2C	X	-12.446	-12.446	0	%100
98	MP2C	Z	0	0	0	%100
99	MP1C	X	-10.281	-10.281	0	%100
100	MP1C	Z	0	0	0	%100
101	M107	X	-7.711	-7.711	0	%100
102	M107	Z	0	0	0	%100
103	M114	X	-10.804	-10.804	0	%100
104	M114	Z	0	0	0	%100
105	MP3B	X	-10.281	-10.281	0	%100
106	MP3B	Z	0	0	0	%100
107	MP4B	X	-10.281	-10.281	0	%100
108	MP4B	Z	0	0	0	%100
109	MP2B	X	-12.446	-12.446	0	%100
110	MP2B	Z	0	0	0	%100
111	MP1B	X	-10.281	-10.281	0	%100
112	MP1B	Z	0	0	0	%100
113	M123A	X	-7.711	-7.711	0	%100
114	M123A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-3.119	-3.119	0	%100
2	M1	Z	-1.801	-1.801	0	%100
3	M4	X	-9.996	-9.996	0	%100
4	M4	Z	-5.771	-5.771	0	%100
5	M10	X	-2.819	-2.819	0	%100
6	M10	Z	-1.628	-1.628	0	%100
7	MP3A	X	-8.904	-8.904	0	%100
8	MP3A	Z	-5.141	-5.141	0	%100
9	MP4A	X	-8.904	-8.904	0	%100
10	MP4A	Z	-5.141	-5.141	0	%100
11	MP2A	X	-10.778	-10.778	0	%100
12	MP2A	Z	-6.223	-6.223	0	%100
13	MP1A	X	-8.904	-8.904	0	%100
14	MP1A	Z	-5.141	-5.141	0	%100
15	M43	X	-2.819	-2.819	0	%100
16	M43	Z	-1.628	-1.628	0	%100
17	M46	X	-5.624	-5.624	0	%100
18	M46	Z	-3.247	-3.247	0	%100
19	M51B	X	-3.123	-3.123	0	%100
20	M51B	Z	-1.803	-1.803	0	%100
21	M52B	X	-12.491	-12.491	0	%100
22	M52B	Z	-7.211	-7.211	0	%100
23	M76	X	-16.871	-16.871	0	%100
24	M76	Z	-9.74	-9.74	0	%100
25	M77	X	-5.728	-5.728	0	%100
26	M77	Z	-3.307	-3.307	0	%100
27	M80	X	-6.033	-6.033	0	%100
28	M80	Z	-3.483	-3.483	0	%100
29	M84	X	-16.871	-16.871	0	%100
30	M84	Z	-9.74	-9.74	0	%100
31	M85	X	-22.911	-22.911	0	%100
32	M85	Z	-13.228	-13.228	0	%100
33	M91	X	-24.131	-24.131	0	%100
34	M91	Z	-13.932	-13.932	0	%100
35	M84B	X	-2.226	-2.226	0	%100
36	M84B	Z	-1.285	-1.285	0	%100
37	M123	X	-1.633	-1.633	0	%100
38	M123	Z	-.943	-.943	0	%100
39	M44	X	-9.996	-9.996	0	%100
40	M44	Z	-5.771	-5.771	0	%100
41	M45	X	-2.819	-2.819	0	%100
42	M45	Z	-1.628	-1.628	0	%100
43	M46A	X	-2.819	-2.819	0	%100
44	M46A	Z	-1.628	-1.628	0	%100
45	M47	X	-5.624	-5.624	0	%100
46	M47	Z	-3.247	-3.247	0	%100
47	M50A	X	-12.491	-12.491	0	%100
48	M50A	Z	-7.211	-7.211	0	%100
49	M51C	X	-3.123	-3.123	0	%100
50	M51C	Z	-1.803	-1.803	0	%100
51	M55	X	-16.871	-16.871	0	%100
52	M55	Z	-9.74	-9.74	0	%100
53	M56	X	-22.911	-22.911	0	%100
54	M56	Z	-13.228	-13.228	0	%100
55	M58A	X	-24.131	-24.131	0	%100
56	M58A	Z	-13.932	-13.932	0	%100
57	M60	X	-16.871	-16.871	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M60	Z	-9.74	-9.74	0	%100
59	M61	X	-5.728	-5.728	0	%100
60	M61	Z	-3.307	-3.307	0	%100
61	M63	X	-6.033	-6.033	0	%100
62	M63	Z	-3.483	-3.483	0	%100
63	M70	X	-1.633	-1.633	0	%100
64	M70	Z	-.943	-.943	0	%100
65	M71	X	0	0	0	%100
66	M71	Z	0	0	0	%100
67	M72	X	-11.277	-11.277	0	%100
68	M72	Z	-6.511	-6.511	0	%100
69	M73	X	-11.277	-11.277	0	%100
70	M73	Z	-6.511	-6.511	0	%100
71	M74	X	-22.494	-22.494	0	%100
72	M74	Z	-12.987	-12.987	0	%100
73	M77A	X	-3.123	-3.123	0	%100
74	M77A	Z	-1.803	-1.803	0	%100
75	M78	X	-3.123	-3.123	0	%100
76	M78	Z	-1.803	-1.803	0	%100
77	M82	X	0	0	0	%100
78	M82	Z	0	0	0	%100
79	M83A	X	-5.728	-5.728	0	%100
80	M83A	Z	-3.307	-3.307	0	%100
81	M85A	X	-6.033	-6.033	0	%100
82	M85A	Z	-3.483	-3.483	0	%100
83	M87	X	0	0	0	%100
84	M87	Z	0	0	0	%100
85	M88A	X	-5.728	-5.728	0	%100
86	M88A	Z	-3.307	-3.307	0	%100
87	M90	X	-6.033	-6.033	0	%100
88	M90	Z	-3.483	-3.483	0	%100
89	M97	X	-6.53	-6.53	0	%100
90	M97	Z	-3.77	-3.77	0	%100
91	M98	X	-3.119	-3.119	0	%100
92	M98	Z	-1.801	-1.801	0	%100
93	MP3C	X	-8.904	-8.904	0	%100
94	MP3C	Z	-5.141	-5.141	0	%100
95	MP4C	X	-8.904	-8.904	0	%100
96	MP4C	Z	-5.141	-5.141	0	%100
97	MP2C	X	-10.778	-10.778	0	%100
98	MP2C	Z	-6.223	-6.223	0	%100
99	MP1C	X	-8.904	-8.904	0	%100
100	MP1C	Z	-5.141	-5.141	0	%100
101	M107	X	-2.226	-2.226	0	%100
102	M107	Z	-1.285	-1.285	0	%100
103	M114	X	-12.476	-12.476	0	%100
104	M114	Z	-7.203	-7.203	0	%100
105	MP3B	X	-8.904	-8.904	0	%100
106	MP3B	Z	-5.141	-5.141	0	%100
107	MP4B	X	-8.904	-8.904	0	%100
108	MP4B	Z	-5.141	-5.141	0	%100
109	MP2B	X	-10.778	-10.778	0	%100
110	MP2B	Z	-6.223	-6.223	0	%100
111	MP1B	X	-8.904	-8.904	0	%100
112	MP1B	Z	-5.141	-5.141	0	%100
113	M123A	X	-8.904	-8.904	0	%100
114	M123A	Z	-5.141	-5.141	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-5.402	-5.402	0	%100
2	M1	Z	-9.357	-9.357	0	%100
3	M4	X	-1.924	-1.924	0	%100
4	M4	Z	-3.332	-3.332	0	%100
5	M10	X	-4.883	-4.883	0	%100
6	M10	Z	-8.458	-8.458	0	%100
7	MP3A	X	-5.141	-5.141	0	%100
8	MP3A	Z	-8.904	-8.904	0	%100
9	MP4A	X	-5.141	-5.141	0	%100
10	MP4A	Z	-8.904	-8.904	0	%100
11	MP2A	X	-6.223	-6.223	0	%100
12	MP2A	Z	-10.778	-10.778	0	%100
13	MP1A	X	-5.141	-5.141	0	%100
14	MP1A	Z	-8.904	-8.904	0	%100
15	M43	X	-4.883	-4.883	0	%100
16	M43	Z	-8.458	-8.458	0	%100
17	M46	X	-9.74	-9.74	0	%100
18	M46	Z	-16.871	-16.871	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-5.409	-5.409	0	%100
22	M52B	Z	-9.368	-9.368	0	%100
23	M76	X	-3.247	-3.247	0	%100
24	M76	Z	-5.624	-5.624	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	-3.247	-3.247	0	%100
30	M84	Z	-5.624	-5.624	0	%100
31	M85	X	-9.921	-9.921	0	%100
32	M85	Z	-17.183	-17.183	0	%100
33	M91	X	-10.449	-10.449	0	%100
34	M91	Z	-18.099	-18.099	0	%100
35	M84B	X	-3.856	-3.856	0	%100
36	M84B	Z	-6.678	-6.678	0	%100
37	M123	X	-2.828	-2.828	0	%100
38	M123	Z	-4.898	-4.898	0	%100
39	M44	X	-7.695	-7.695	0	%100
40	M44	Z	-13.328	-13.328	0	%100
41	M45	X	0	0	0	%100
42	M45	Z	0	0	0	%100
43	M46A	X	0	0	0	%100
44	M46A	Z	0	0	0	%100
45	M47	X	0	0	0	%100
46	M47	Z	0	0	0	%100
47	M50A	X	-5.409	-5.409	0	%100
48	M50A	Z	-9.368	-9.368	0	%100
49	M51C	X	-5.409	-5.409	0	%100
50	M51C	Z	-9.368	-9.368	0	%100
51	M55	X	-12.987	-12.987	0	%100
52	M55	Z	-22.494	-22.494	0	%100
53	M56	X	-9.921	-9.921	0	%100
54	M56	Z	-17.183	-17.183	0	%100
55	M58A	X	-10.449	-10.449	0	%100
56	M58A	Z	-18.099	-18.099	0	%100
57	M60	X	-12.987	-12.987	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[ft,%]	End Location[ft,%]
58	M60	Z	-22.494	-22.494	0	%100
59	M61	X	-9.921	-9.921	0	%100
60	M61	Z	-17.183	-17.183	0	%100
61	M63	X	-10.449	-10.449	0	%100
62	M63	Z	-18.099	-18.099	0	%100
63	M70	X	0	0	0	%100
64	M70	Z	0	0	0	%100
65	M71	X	-1.924	-1.924	0	%100
66	M71	Z	-3.332	-3.332	0	%100
67	M72	X	-4.883	-4.883	0	%100
68	M72	Z	-8.458	-8.458	0	%100
69	M73	X	-4.883	-4.883	0	%100
70	M73	Z	-8.458	-8.458	0	%100
71	M74	X	-9.74	-9.74	0	%100
72	M74	Z	-16.871	-16.871	0	%100
73	M77A	X	-5.409	-5.409	0	%100
74	M77A	Z	-9.368	-9.368	0	%100
75	M78	X	0	0	0	%100
76	M78	Z	0	0	0	%100
77	M82	X	-3.247	-3.247	0	%100
78	M82	Z	-5.624	-5.624	0	%100
79	M83A	X	-9.921	-9.921	0	%100
80	M83A	Z	-17.183	-17.183	0	%100
81	M85A	X	-10.449	-10.449	0	%100
82	M85A	Z	-18.099	-18.099	0	%100
83	M87	X	-3.247	-3.247	0	%100
84	M87	Z	-5.624	-5.624	0	%100
85	M88A	X	0	0	0	%100
86	M88A	Z	0	0	0	%100
87	M90	X	0	0	0	%100
88	M90	Z	0	0	0	%100
89	M97	X	-2.828	-2.828	0	%100
90	M97	Z	-4.898	-4.898	0	%100
91	M98	X	0	0	0	%100
92	M98	Z	0	0	0	%100
93	MP3C	X	-5.141	-5.141	0	%100
94	MP3C	Z	-8.904	-8.904	0	%100
95	MP4C	X	-5.141	-5.141	0	%100
96	MP4C	Z	-8.904	-8.904	0	%100
97	MP2C	X	-6.223	-6.223	0	%100
98	MP2C	Z	-10.778	-10.778	0	%100
99	MP1C	X	-5.141	-5.141	0	%100
100	MP1C	Z	-8.904	-8.904	0	%100
101	M107	X	0	0	0	%100
102	M107	Z	0	0	0	%100
103	M114	X	-5.402	-5.402	0	%100
104	M114	Z	-9.357	-9.357	0	%100
105	MP3B	X	-5.141	-5.141	0	%100
106	MP3B	Z	-8.904	-8.904	0	%100
107	MP4B	X	-5.141	-5.141	0	%100
108	MP4B	Z	-8.904	-8.904	0	%100
109	MP2B	X	-6.223	-6.223	0	%100
110	MP2B	Z	-10.778	-10.778	0	%100
111	MP1B	X	-5.141	-5.141	0	%100
112	MP1B	Z	-8.904	-8.904	0	%100
113	M123A	X	-3.856	-3.856	0	%100
114	M123A	Z	-6.678	-6.678	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-4.048	-4.048	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	-3.34	-3.34	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-3.257	-3.257	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	-3.257	-3.257	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	-3.609	-3.609	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	-3.257	-3.257	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	-3.34	-3.34	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	-5.236	-5.236	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	-.962	-.962	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	-.962	-.962	0	%100
23	M76	X	0	0	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	-1.306	-1.306	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	-1.364	-1.364	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	-1.306	-1.306	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	-1.364	-1.364	0	%100
35	M84B	X	0	0	0	%100
36	M84B	Z	-3.257	-3.257	0	%100
37	M123	X	0	0	0	%100
38	M123	Z	-2.405	-2.405	0	%100
39	M44	X	0	0	0	%100
40	M44	Z	-3.065	-3.065	0	%100
41	M45	X	0	0	0	%100
42	M45	Z	-.835	-.835	0	%100
43	M46A	X	0	0	0	%100
44	M46A	Z	-.835	-.835	0	%100
45	M47	X	0	0	0	%100
46	M47	Z	-1.309	-1.309	0	%100
47	M50A	X	0	0	0	%100
48	M50A	Z	-.962	-.962	0	%100
49	M51C	X	0	0	0	%100
50	M51C	Z	-3.847	-3.847	0	%100
51	M55	X	0	0	0	%100
52	M55	Z	-3.861	-3.861	0	%100
53	M56	X	0	0	0	%100
54	M56	Z	-1.306	-1.306	0	%100
55	M58A	X	0	0	0	%100
56	M58A	Z	-1.364	-1.364	0	%100
57	M60	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[ft,%]	End Location[ft,%]
58	M60	Z	-3.861	-3.861	0	%100
59	M61	X	0	0	0	%100
60	M61	Z	-5.226	-5.226	0	%100
61	M63	X	0	0	0	%100
62	M63	Z	-5.455	-5.455	0	%100
63	M70	X	0	0	0	%100
64	M70	Z	-.601	-.601	0	%100
65	M71	X	0	0	0	%100
66	M71	Z	-3.065	-3.065	0	%100
67	M72	X	0	0	0	%100
68	M72	Z	-.835	-.835	0	%100
69	M73	X	0	0	0	%100
70	M73	Z	-.835	-.835	0	%100
71	M74	X	0	0	0	%100
72	M74	Z	-1.309	-1.309	0	%100
73	M77A	X	0	0	0	%100
74	M77A	Z	-3.847	-3.847	0	%100
75	M78	X	0	0	0	%100
76	M78	Z	-.962	-.962	0	%100
77	M82	X	0	0	0	%100
78	M82	Z	-3.861	-3.861	0	%100
79	M83A	X	0	0	0	%100
80	M83A	Z	-5.226	-5.226	0	%100
81	M85A	X	0	0	0	%100
82	M85A	Z	-5.455	-5.455	0	%100
83	M87	X	0	0	0	%100
84	M87	Z	-3.861	-3.861	0	%100
85	M88A	X	0	0	0	%100
86	M88A	Z	-1.306	-1.306	0	%100
87	M90	X	0	0	0	%100
88	M90	Z	-1.364	-1.364	0	%100
89	M97	X	0	0	0	%100
90	M97	Z	-.601	-.601	0	%100
91	M98	X	0	0	0	%100
92	M98	Z	-1.012	-1.012	0	%100
93	MP3C	X	0	0	0	%100
94	MP3C	Z	-3.257	-3.257	0	%100
95	MP4C	X	0	0	0	%100
96	MP4C	Z	-3.257	-3.257	0	%100
97	MP2C	X	0	0	0	%100
98	MP2C	Z	-3.609	-3.609	0	%100
99	MP1C	X	0	0	0	%100
100	MP1C	Z	-3.257	-3.257	0	%100
101	M107	X	0	0	0	%100
102	M107	Z	-.814	-.814	0	%100
103	M114	X	0	0	0	%100
104	M114	Z	-1.012	-1.012	0	%100
105	MP3B	X	0	0	0	%100
106	MP3B	Z	-3.257	-3.257	0	%100
107	MP4B	X	0	0	0	%100
108	MP4B	Z	-3.257	-3.257	0	%100
109	MP2B	X	0	0	0	%100
110	MP2B	Z	-3.609	-3.609	0	%100
111	MP1B	X	0	0	0	%100
112	MP1B	Z	-3.257	-3.257	0	%100
113	M123A	X	0	0	0	%100
114	M123A	Z	-.814	-.814	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.518	1.518	0	%100
2	M1	Z	-2.63	-2.63	0	%100
3	M4	X	.511	.511	0	%100
4	M4	Z	-.885	-.885	0	%100
5	M10	X	1.252	1.252	0	%100
6	M10	Z	-2.169	-2.169	0	%100
7	MP3A	X	1.628	1.628	0	%100
8	MP3A	Z	-2.82	-2.82	0	%100
9	MP4A	X	1.628	1.628	0	%100
10	MP4A	Z	-2.82	-2.82	0	%100
11	MP2A	X	1.804	1.804	0	%100
12	MP2A	Z	-3.125	-3.125	0	%100
13	MP1A	X	1.628	1.628	0	%100
14	MP1A	Z	-2.82	-2.82	0	%100
15	M43	X	1.252	1.252	0	%100
16	M43	Z	-2.169	-2.169	0	%100
17	M46	X	1.963	1.963	0	%100
18	M46	Z	-3.401	-3.401	0	%100
19	M51B	X	1.443	1.443	0	%100
20	M51B	Z	-2.499	-2.499	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	.643	.643	0	%100
24	M76	Z	-1.115	-1.115	0	%100
25	M77	X	1.96	1.96	0	%100
26	M77	Z	-3.394	-3.394	0	%100
27	M80	X	2.046	2.046	0	%100
28	M80	Z	-3.543	-3.543	0	%100
29	M84	X	.643	.643	0	%100
30	M84	Z	-1.115	-1.115	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	0	0	0	%100
35	M84B	X	1.221	1.221	0	%100
36	M84B	Z	-2.115	-2.115	0	%100
37	M123	X	.902	.902	0	%100
38	M123	Z	-1.562	-1.562	0	%100
39	M44	X	.511	.511	0	%100
40	M44	Z	-.885	-.885	0	%100
41	M45	X	1.252	1.252	0	%100
42	M45	Z	-2.169	-2.169	0	%100
43	M46A	X	1.252	1.252	0	%100
44	M46A	Z	-2.169	-2.169	0	%100
45	M47	X	1.963	1.963	0	%100
46	M47	Z	-3.401	-3.401	0	%100
47	M50A	X	0	0	0	%100
48	M50A	Z	0	0	0	%100
49	M51C	X	1.443	1.443	0	%100
50	M51C	Z	-2.499	-2.499	0	%100
51	M55	X	.643	.643	0	%100
52	M55	Z	-1.115	-1.115	0	%100
53	M56	X	0	0	0	%100
54	M56	Z	0	0	0	%100
55	M58A	X	0	0	0	%100
56	M58A	Z	0	0	0	%100
57	M60	X	.643	.643	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M60	Z	-1.115	-1.115	0	%100
59	M61	X	1.96	1.96	0	%100
60	M61	Z	-3.394	-3.394	0	%100
61	M63	X	2.046	2.046	0	%100
62	M63	Z	-3.543	-3.543	0	%100
63	M70	X	.902	.902	0	%100
64	M70	Z	-1.562	-1.562	0	%100
65	M71	X	2.044	2.044	0	%100
66	M71	Z	-3.54	-3.54	0	%100
67	M72	X	0	0	0	%100
68	M72	Z	0	0	0	%100
69	M73	X	0	0	0	%100
70	M73	Z	0	0	0	%100
71	M74	X	0	0	0	%100
72	M74	Z	0	0	0	%100
73	M77A	X	1.443	1.443	0	%100
74	M77A	Z	-2.499	-2.499	0	%100
75	M78	X	1.443	1.443	0	%100
76	M78	Z	-2.499	-2.499	0	%100
77	M82	X	2.574	2.574	0	%100
78	M82	Z	-4.458	-4.458	0	%100
79	M83A	X	1.96	1.96	0	%100
80	M83A	Z	-3.394	-3.394	0	%100
81	M85A	X	2.046	2.046	0	%100
82	M85A	Z	-3.543	-3.543	0	%100
83	M87	X	2.574	2.574	0	%100
84	M87	Z	-4.458	-4.458	0	%100
85	M88A	X	1.96	1.96	0	%100
86	M88A	Z	-3.394	-3.394	0	%100
87	M90	X	2.046	2.046	0	%100
88	M90	Z	-3.543	-3.543	0	%100
89	M97	X	0	0	0	%100
90	M97	Z	0	0	0	%100
91	M98	X	1.518	1.518	0	%100
92	M98	Z	-2.63	-2.63	0	%100
93	MP3C	X	1.628	1.628	0	%100
94	MP3C	Z	-2.82	-2.82	0	%100
95	MP4C	X	1.628	1.628	0	%100
96	MP4C	Z	-2.82	-2.82	0	%100
97	MP2C	X	1.804	1.804	0	%100
98	MP2C	Z	-3.125	-3.125	0	%100
99	MP1C	X	1.628	1.628	0	%100
100	MP1C	Z	-2.82	-2.82	0	%100
101	M107	X	1.221	1.221	0	%100
102	M107	Z	-2.115	-2.115	0	%100
103	M114	X	0	0	0	%100
104	M114	Z	0	0	0	%100
105	MP3B	X	1.628	1.628	0	%100
106	MP3B	Z	-2.82	-2.82	0	%100
107	MP4B	X	1.628	1.628	0	%100
108	MP4B	Z	-2.82	-2.82	0	%100
109	MP2B	X	1.804	1.804	0	%100
110	MP2B	Z	-3.125	-3.125	0	%100
111	MP1B	X	1.628	1.628	0	%100
112	MP1B	Z	-2.82	-2.82	0	%100
113	M123A	X	0	0	0	%100
114	M123A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.877	.877	0	%100
2	M1	Z	-.506	-.506	0	%100
3	M4	X	2.655	2.655	0	%100
4	M4	Z	-1.533	-1.533	0	%100
5	M10	X	.723	.723	0	%100
6	M10	Z	-.417	-.417	0	%100
7	MP3A	X	2.82	2.82	0	%100
8	MP3A	Z	-1.628	-1.628	0	%100
9	MP4A	X	2.82	2.82	0	%100
10	MP4A	Z	-1.628	-1.628	0	%100
11	MP2A	X	3.125	3.125	0	%100
12	MP2A	Z	-1.804	-1.804	0	%100
13	MP1A	X	2.82	2.82	0	%100
14	MP1A	Z	-1.628	-1.628	0	%100
15	M43	X	.723	.723	0	%100
16	M43	Z	-.417	-.417	0	%100
17	M46	X	1.134	1.134	0	%100
18	M46	Z	-.654	-.654	0	%100
19	M51B	X	3.332	3.332	0	%100
20	M51B	Z	-1.924	-1.924	0	%100
21	M52B	X	.833	.833	0	%100
22	M52B	Z	-.481	-.481	0	%100
23	M76	X	3.344	3.344	0	%100
24	M76	Z	-1.93	-1.93	0	%100
25	M77	X	4.526	4.526	0	%100
26	M77	Z	-2.613	-2.613	0	%100
27	M80	X	4.724	4.724	0	%100
28	M80	Z	-2.728	-2.728	0	%100
29	M84	X	3.344	3.344	0	%100
30	M84	Z	-1.93	-1.93	0	%100
31	M85	X	1.131	1.131	0	%100
32	M85	Z	-.653	-.653	0	%100
33	M91	X	1.181	1.181	0	%100
34	M91	Z	-.682	-.682	0	%100
35	M84B	X	.705	.705	0	%100
36	M84B	Z	-.407	-.407	0	%100
37	M123	X	.521	.521	0	%100
38	M123	Z	-.301	-.301	0	%100
39	M44	X	0	0	0	%100
40	M44	Z	0	0	0	%100
41	M45	X	2.892	2.892	0	%100
42	M45	Z	-1.67	-1.67	0	%100
43	M46A	X	2.892	2.892	0	%100
44	M46A	Z	-1.67	-1.67	0	%100
45	M47	X	4.534	4.534	0	%100
46	M47	Z	-2.618	-2.618	0	%100
47	M50A	X	.833	.833	0	%100
48	M50A	Z	-.481	-.481	0	%100
49	M51C	X	.833	.833	0	%100
50	M51C	Z	-.481	-.481	0	%100
51	M55	X	0	0	0	%100
52	M55	Z	0	0	0	%100
53	M56	X	1.131	1.131	0	%100
54	M56	Z	-.653	-.653	0	%100
55	M58A	X	1.181	1.181	0	%100
56	M58A	Z	-.682	-.682	0	%100
57	M60	X	0	0	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[ft,%]	End Location[ft,%]
58	M60	Z	0	0	0	%100
59	M61	X	1.131	1.131	0	%100
60	M61	Z	-.653	-.653	0	%100
61	M63	X	1.181	1.181	0	%100
62	M63	Z	-.682	-.682	0	%100
63	M70	X	2.083	2.083	0	%100
64	M70	Z	-1.203	-1.203	0	%100
65	M71	X	2.655	2.655	0	%100
66	M71	Z	-1.533	-1.533	0	%100
67	M72	X	.723	.723	0	%100
68	M72	Z	-.417	-.417	0	%100
69	M73	X	.723	.723	0	%100
70	M73	Z	-.417	-.417	0	%100
71	M74	X	1.134	1.134	0	%100
72	M74	Z	-.654	-.654	0	%100
73	M77A	X	.833	.833	0	%100
74	M77A	Z	-.481	-.481	0	%100
75	M78	X	3.332	3.332	0	%100
76	M78	Z	-1.924	-1.924	0	%100
77	M82	X	3.344	3.344	0	%100
78	M82	Z	-1.93	-1.93	0	%100
79	M83A	X	1.131	1.131	0	%100
80	M83A	Z	-.653	-.653	0	%100
81	M85A	X	1.181	1.181	0	%100
82	M85A	Z	-.682	-.682	0	%100
83	M87	X	3.344	3.344	0	%100
84	M87	Z	-1.93	-1.93	0	%100
85	M88A	X	4.526	4.526	0	%100
86	M88A	Z	-2.613	-2.613	0	%100
87	M90	X	4.724	4.724	0	%100
88	M90	Z	-2.728	-2.728	0	%100
89	M97	X	.521	.521	0	%100
90	M97	Z	-.301	-.301	0	%100
91	M98	X	3.506	3.506	0	%100
92	M98	Z	-2.024	-2.024	0	%100
93	MP3C	X	2.82	2.82	0	%100
94	MP3C	Z	-1.628	-1.628	0	%100
95	MP4C	X	2.82	2.82	0	%100
96	MP4C	Z	-1.628	-1.628	0	%100
97	MP2C	X	3.125	3.125	0	%100
98	MP2C	Z	-1.804	-1.804	0	%100
99	MP1C	X	2.82	2.82	0	%100
100	MP1C	Z	-1.628	-1.628	0	%100
101	M107	X	2.82	2.82	0	%100
102	M107	Z	-1.628	-1.628	0	%100
103	M114	X	.877	.877	0	%100
104	M114	Z	-.506	-.506	0	%100
105	MP3B	X	2.82	2.82	0	%100
106	MP3B	Z	-1.628	-1.628	0	%100
107	MP4B	X	2.82	2.82	0	%100
108	MP4B	Z	-1.628	-1.628	0	%100
109	MP2B	X	3.125	3.125	0	%100
110	MP2B	Z	-1.804	-1.804	0	%100
111	MP1B	X	2.82	2.82	0	%100
112	MP1B	Z	-1.628	-1.628	0	%100
113	M123A	X	.705	.705	0	%100
114	M123A	Z	-.407	-.407	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	4.087	4.087	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	3.257	3.257	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	3.257	3.257	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	3.609	3.609	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	3.257	3.257	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	2.885	2.885	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	2.885	2.885	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	5.148	5.148	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	3.919	3.919	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	4.091	4.091	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	5.148	5.148	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	3.919	3.919	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	4.091	4.091	0	%100
34	M91	Z	0	0	0	%100
35	M84B	X	0	0	0	%100
36	M84B	Z	0	0	0	%100
37	M123	X	0	0	0	%100
38	M123	Z	0	0	0	%100
39	M44	X	1.022	1.022	0	%100
40	M44	Z	0	0	0	%100
41	M45	X	2.505	2.505	0	%100
42	M45	Z	0	0	0	%100
43	M46A	X	2.505	2.505	0	%100
44	M46A	Z	0	0	0	%100
45	M47	X	3.927	3.927	0	%100
46	M47	Z	0	0	0	%100
47	M50A	X	2.885	2.885	0	%100
48	M50A	Z	0	0	0	%100
49	M51C	X	0	0	0	%100
50	M51C	Z	0	0	0	%100
51	M55	X	1.287	1.287	0	%100
52	M55	Z	0	0	0	%100
53	M56	X	3.919	3.919	0	%100
54	M56	Z	0	0	0	%100
55	M58A	X	4.091	4.091	0	%100
56	M58A	Z	0	0	0	%100
57	M60	X	1.287	1.287	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M60	Z	0	0	0	%100
59	M61	X	0	0	0	%100
60	M61	Z	0	0	0	%100
61	M63	X	0	0	0	%100
62	M63	Z	0	0	0	%100
63	M70	X	1.804	1.804	0	%100
64	M70	Z	0	0	0	%100
65	M71	X	1.022	1.022	0	%100
66	M71	Z	0	0	0	%100
67	M72	X	2.505	2.505	0	%100
68	M72	Z	0	0	0	%100
69	M73	X	2.505	2.505	0	%100
70	M73	Z	0	0	0	%100
71	M74	X	3.927	3.927	0	%100
72	M74	Z	0	0	0	%100
73	M77A	X	0	0	0	%100
74	M77A	Z	0	0	0	%100
75	M78	X	2.885	2.885	0	%100
76	M78	Z	0	0	0	%100
77	M82	X	1.287	1.287	0	%100
78	M82	Z	0	0	0	%100
79	M83A	X	0	0	0	%100
80	M83A	Z	0	0	0	%100
81	M85A	X	0	0	0	%100
82	M85A	Z	0	0	0	%100
83	M87	X	1.287	1.287	0	%100
84	M87	Z	0	0	0	%100
85	M88A	X	3.919	3.919	0	%100
86	M88A	Z	0	0	0	%100
87	M90	X	4.091	4.091	0	%100
88	M90	Z	0	0	0	%100
89	M97	X	1.804	1.804	0	%100
90	M97	Z	0	0	0	%100
91	M98	X	3.036	3.036	0	%100
92	M98	Z	0	0	0	%100
93	MP3C	X	3.257	3.257	0	%100
94	MP3C	Z	0	0	0	%100
95	MP4C	X	3.257	3.257	0	%100
96	MP4C	Z	0	0	0	%100
97	MP2C	X	3.609	3.609	0	%100
98	MP2C	Z	0	0	0	%100
99	MP1C	X	3.257	3.257	0	%100
100	MP1C	Z	0	0	0	%100
101	M107	X	2.442	2.442	0	%100
102	M107	Z	0	0	0	%100
103	M114	X	3.036	3.036	0	%100
104	M114	Z	0	0	0	%100
105	MP3B	X	3.257	3.257	0	%100
106	MP3B	Z	0	0	0	%100
107	MP4B	X	3.257	3.257	0	%100
108	MP4B	Z	0	0	0	%100
109	MP2B	X	3.609	3.609	0	%100
110	MP2B	Z	0	0	0	%100
111	MP1B	X	3.257	3.257	0	%100
112	MP1B	Z	0	0	0	%100
113	M123A	X	2.442	2.442	0	%100
114	M123A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.877	.877	0	%100
2	M1	Z	.506	.506	0	%100
3	M4	X	2.655	2.655	0	%100
4	M4	Z	1.533	1.533	0	%100
5	M10	X	.723	.723	0	%100
6	M10	Z	.417	.417	0	%100
7	MP3A	X	2.82	2.82	0	%100
8	MP3A	Z	1.628	1.628	0	%100
9	MP4A	X	2.82	2.82	0	%100
10	MP4A	Z	1.628	1.628	0	%100
11	MP2A	X	3.125	3.125	0	%100
12	MP2A	Z	1.804	1.804	0	%100
13	MP1A	X	2.82	2.82	0	%100
14	MP1A	Z	1.628	1.628	0	%100
15	M43	X	.723	.723	0	%100
16	M43	Z	.417	.417	0	%100
17	M46	X	1.134	1.134	0	%100
18	M46	Z	.654	.654	0	%100
19	M51B	X	.833	.833	0	%100
20	M51B	Z	.481	.481	0	%100
21	M52B	X	3.332	3.332	0	%100
22	M52B	Z	1.924	1.924	0	%100
23	M76	X	3.344	3.344	0	%100
24	M76	Z	1.93	1.93	0	%100
25	M77	X	1.131	1.131	0	%100
26	M77	Z	.653	.653	0	%100
27	M80	X	1.181	1.181	0	%100
28	M80	Z	.682	.682	0	%100
29	M84	X	3.344	3.344	0	%100
30	M84	Z	1.93	1.93	0	%100
31	M85	X	4.526	4.526	0	%100
32	M85	Z	2.613	2.613	0	%100
33	M91	X	4.724	4.724	0	%100
34	M91	Z	2.728	2.728	0	%100
35	M84B	X	.705	.705	0	%100
36	M84B	Z	.407	.407	0	%100
37	M123	X	.521	.521	0	%100
38	M123	Z	.301	.301	0	%100
39	M44	X	2.655	2.655	0	%100
40	M44	Z	1.533	1.533	0	%100
41	M45	X	.723	.723	0	%100
42	M45	Z	.417	.417	0	%100
43	M46A	X	.723	.723	0	%100
44	M46A	Z	.417	.417	0	%100
45	M47	X	1.134	1.134	0	%100
46	M47	Z	.654	.654	0	%100
47	M50A	X	3.332	3.332	0	%100
48	M50A	Z	1.924	1.924	0	%100
49	M51C	X	.833	.833	0	%100
50	M51C	Z	.481	.481	0	%100
51	M55	X	3.344	3.344	0	%100
52	M55	Z	1.93	1.93	0	%100
53	M56	X	4.526	4.526	0	%100
54	M56	Z	2.613	2.613	0	%100
55	M58A	X	4.724	4.724	0	%100
56	M58A	Z	2.728	2.728	0	%100
57	M60	X	3.344	3.344	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M60	Z	1.93	1.93	0	%100
59	M61	X	1.131	1.131	0	%100
60	M61	Z	.653	.653	0	%100
61	M63	X	1.181	1.181	0	%100
62	M63	Z	.682	.682	0	%100
63	M70	X	.521	.521	0	%100
64	M70	Z	.301	.301	0	%100
65	M71	X	0	0	0	%100
66	M71	Z	0	0	0	%100
67	M72	X	2.892	2.892	0	%100
68	M72	Z	1.67	1.67	0	%100
69	M73	X	2.892	2.892	0	%100
70	M73	Z	1.67	1.67	0	%100
71	M74	X	4.534	4.534	0	%100
72	M74	Z	2.618	2.618	0	%100
73	M77A	X	.833	.833	0	%100
74	M77A	Z	.481	.481	0	%100
75	M78	X	.833	.833	0	%100
76	M78	Z	.481	.481	0	%100
77	M82	X	0	0	0	%100
78	M82	Z	0	0	0	%100
79	M83A	X	1.131	1.131	0	%100
80	M83A	Z	.653	.653	0	%100
81	M85A	X	1.181	1.181	0	%100
82	M85A	Z	.682	.682	0	%100
83	M87	X	0	0	0	%100
84	M87	Z	0	0	0	%100
85	M88A	X	1.131	1.131	0	%100
86	M88A	Z	.653	.653	0	%100
87	M90	X	1.181	1.181	0	%100
88	M90	Z	.682	.682	0	%100
89	M97	X	2.083	2.083	0	%100
90	M97	Z	1.203	1.203	0	%100
91	M98	X	.877	.877	0	%100
92	M98	Z	.506	.506	0	%100
93	MP3C	X	2.82	2.82	0	%100
94	MP3C	Z	1.628	1.628	0	%100
95	MP4C	X	2.82	2.82	0	%100
96	MP4C	Z	1.628	1.628	0	%100
97	MP2C	X	3.125	3.125	0	%100
98	MP2C	Z	1.804	1.804	0	%100
99	MP1C	X	2.82	2.82	0	%100
100	MP1C	Z	1.628	1.628	0	%100
101	M107	X	.705	.705	0	%100
102	M107	Z	.407	.407	0	%100
103	M114	X	3.506	3.506	0	%100
104	M114	Z	2.024	2.024	0	%100
105	MP3B	X	2.82	2.82	0	%100
106	MP3B	Z	1.628	1.628	0	%100
107	MP4B	X	2.82	2.82	0	%100
108	MP4B	Z	1.628	1.628	0	%100
109	MP2B	X	3.125	3.125	0	%100
110	MP2B	Z	1.804	1.804	0	%100
111	MP1B	X	2.82	2.82	0	%100
112	MP1B	Z	1.628	1.628	0	%100
113	M123A	X	2.82	2.82	0	%100
114	M123A	Z	1.628	1.628	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.518	1.518	0	%100
2	M1	Z	2.63	2.63	0	%100
3	M4	X	.511	.511	0	%100
4	M4	Z	.885	.885	0	%100
5	M10	X	1.252	1.252	0	%100
6	M10	Z	2.169	2.169	0	%100
7	MP3A	X	1.628	1.628	0	%100
8	MP3A	Z	2.82	2.82	0	%100
9	MP4A	X	1.628	1.628	0	%100
10	MP4A	Z	2.82	2.82	0	%100
11	MP2A	X	1.804	1.804	0	%100
12	MP2A	Z	3.125	3.125	0	%100
13	MP1A	X	1.628	1.628	0	%100
14	MP1A	Z	2.82	2.82	0	%100
15	M43	X	1.252	1.252	0	%100
16	M43	Z	2.169	2.169	0	%100
17	M46	X	1.963	1.963	0	%100
18	M46	Z	3.401	3.401	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	1.443	1.443	0	%100
22	M52B	Z	2.499	2.499	0	%100
23	M76	X	.643	.643	0	%100
24	M76	Z	1.115	1.115	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	.643	.643	0	%100
30	M84	Z	1.115	1.115	0	%100
31	M85	X	1.96	1.96	0	%100
32	M85	Z	3.394	3.394	0	%100
33	M91	X	2.046	2.046	0	%100
34	M91	Z	3.543	3.543	0	%100
35	M84B	X	1.221	1.221	0	%100
36	M84B	Z	2.115	2.115	0	%100
37	M123	X	.902	.902	0	%100
38	M123	Z	1.562	1.562	0	%100
39	M44	X	2.044	2.044	0	%100
40	M44	Z	3.54	3.54	0	%100
41	M45	X	0	0	0	%100
42	M45	Z	0	0	0	%100
43	M46A	X	0	0	0	%100
44	M46A	Z	0	0	0	%100
45	M47	X	0	0	0	%100
46	M47	Z	0	0	0	%100
47	M50A	X	1.443	1.443	0	%100
48	M50A	Z	2.499	2.499	0	%100
49	M51C	X	1.443	1.443	0	%100
50	M51C	Z	2.499	2.499	0	%100
51	M55	X	2.574	2.574	0	%100
52	M55	Z	4.458	4.458	0	%100
53	M56	X	1.96	1.96	0	%100
54	M56	Z	3.394	3.394	0	%100
55	M58A	X	2.046	2.046	0	%100
56	M58A	Z	3.543	3.543	0	%100
57	M60	X	2.574	2.574	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[ft,%]	End Location[ft,%]
58	M60	Z	4.458	4.458	0	%100
59	M61	X	1.96	1.96	0	%100
60	M61	Z	3.394	3.394	0	%100
61	M63	X	2.046	2.046	0	%100
62	M63	Z	3.543	3.543	0	%100
63	M70	X	0	0	0	%100
64	M70	Z	0	0	0	%100
65	M71	X	.511	.511	0	%100
66	M71	Z	.885	.885	0	%100
67	M72	X	1.252	1.252	0	%100
68	M72	Z	2.169	2.169	0	%100
69	M73	X	1.252	1.252	0	%100
70	M73	Z	2.169	2.169	0	%100
71	M74	X	1.963	1.963	0	%100
72	M74	Z	3.401	3.401	0	%100
73	M77A	X	1.443	1.443	0	%100
74	M77A	Z	2.499	2.499	0	%100
75	M78	X	0	0	0	%100
76	M78	Z	0	0	0	%100
77	M82	X	.643	.643	0	%100
78	M82	Z	1.115	1.115	0	%100
79	M83A	X	1.96	1.96	0	%100
80	M83A	Z	3.394	3.394	0	%100
81	M85A	X	2.046	2.046	0	%100
82	M85A	Z	3.543	3.543	0	%100
83	M87	X	.643	.643	0	%100
84	M87	Z	1.115	1.115	0	%100
85	M88A	X	0	0	0	%100
86	M88A	Z	0	0	0	%100
87	M90	X	0	0	0	%100
88	M90	Z	0	0	0	%100
89	M97	X	.902	.902	0	%100
90	M97	Z	1.562	1.562	0	%100
91	M98	X	0	0	0	%100
92	M98	Z	0	0	0	%100
93	MP3C	X	1.628	1.628	0	%100
94	MP3C	Z	2.82	2.82	0	%100
95	MP4C	X	1.628	1.628	0	%100
96	MP4C	Z	2.82	2.82	0	%100
97	MP2C	X	1.804	1.804	0	%100
98	MP2C	Z	3.125	3.125	0	%100
99	MP1C	X	1.628	1.628	0	%100
100	MP1C	Z	2.82	2.82	0	%100
101	M107	X	0	0	0	%100
102	M107	Z	0	0	0	%100
103	M114	X	1.518	1.518	0	%100
104	M114	Z	2.63	2.63	0	%100
105	MP3B	X	1.628	1.628	0	%100
106	MP3B	Z	2.82	2.82	0	%100
107	MP4B	X	1.628	1.628	0	%100
108	MP4B	Z	2.82	2.82	0	%100
109	MP2B	X	1.804	1.804	0	%100
110	MP2B	Z	3.125	3.125	0	%100
111	MP1B	X	1.628	1.628	0	%100
112	MP1B	Z	2.82	2.82	0	%100
113	M123A	X	1.221	1.221	0	%100
114	M123A	Z	2.115	2.115	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	4.048	4.048	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	3.34	3.34	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	3.257	3.257	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	3.257	3.257	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	3.609	3.609	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	3.257	3.257	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	3.34	3.34	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	5.236	5.236	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	.962	.962	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	.962	.962	0	%100
23	M76	X	0	0	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	1.306	1.306	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	1.364	1.364	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	1.306	1.306	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	1.364	1.364	0	%100
35	M84B	X	0	0	0	%100
36	M84B	Z	3.257	3.257	0	%100
37	M123	X	0	0	0	%100
38	M123	Z	2.405	2.405	0	%100
39	M44	X	0	0	0	%100
40	M44	Z	3.065	3.065	0	%100
41	M45	X	0	0	0	%100
42	M45	Z	.835	.835	0	%100
43	M46A	X	0	0	0	%100
44	M46A	Z	.835	.835	0	%100
45	M47	X	0	0	0	%100
46	M47	Z	1.309	1.309	0	%100
47	M50A	X	0	0	0	%100
48	M50A	Z	.962	.962	0	%100
49	M51C	X	0	0	0	%100
50	M51C	Z	3.847	3.847	0	%100
51	M55	X	0	0	0	%100
52	M55	Z	3.861	3.861	0	%100
53	M56	X	0	0	0	%100
54	M56	Z	1.306	1.306	0	%100
55	M58A	X	0	0	0	%100
56	M58A	Z	1.364	1.364	0	%100
57	M60	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M60	Z	3.861	3.861	0	%100
59	M61	X	0	0	0	%100
60	M61	Z	5.226	5.226	0	%100
61	M63	X	0	0	0	%100
62	M63	Z	5.455	5.455	0	%100
63	M70	X	0	0	0	%100
64	M70	Z	.601	.601	0	%100
65	M71	X	0	0	0	%100
66	M71	Z	3.065	3.065	0	%100
67	M72	X	0	0	0	%100
68	M72	Z	.835	.835	0	%100
69	M73	X	0	0	0	%100
70	M73	Z	.835	.835	0	%100
71	M74	X	0	0	0	%100
72	M74	Z	1.309	1.309	0	%100
73	M77A	X	0	0	0	%100
74	M77A	Z	3.847	3.847	0	%100
75	M78	X	0	0	0	%100
76	M78	Z	.962	.962	0	%100
77	M82	X	0	0	0	%100
78	M82	Z	3.861	3.861	0	%100
79	M83A	X	0	0	0	%100
80	M83A	Z	5.226	5.226	0	%100
81	M85A	X	0	0	0	%100
82	M85A	Z	5.455	5.455	0	%100
83	M87	X	0	0	0	%100
84	M87	Z	3.861	3.861	0	%100
85	M88A	X	0	0	0	%100
86	M88A	Z	1.306	1.306	0	%100
87	M90	X	0	0	0	%100
88	M90	Z	1.364	1.364	0	%100
89	M97	X	0	0	0	%100
90	M97	Z	.601	.601	0	%100
91	M98	X	0	0	0	%100
92	M98	Z	1.012	1.012	0	%100
93	MP3C	X	0	0	0	%100
94	MP3C	Z	3.257	3.257	0	%100
95	MP4C	X	0	0	0	%100
96	MP4C	Z	3.257	3.257	0	%100
97	MP2C	X	0	0	0	%100
98	MP2C	Z	3.609	3.609	0	%100
99	MP1C	X	0	0	0	%100
100	MP1C	Z	3.257	3.257	0	%100
101	M107	X	0	0	0	%100
102	M107	Z	.814	.814	0	%100
103	M114	X	0	0	0	%100
104	M114	Z	1.012	1.012	0	%100
105	MP3B	X	0	0	0	%100
106	MP3B	Z	3.257	3.257	0	%100
107	MP4B	X	0	0	0	%100
108	MP4B	Z	3.257	3.257	0	%100
109	MP2B	X	0	0	0	%100
110	MP2B	Z	3.609	3.609	0	%100
111	MP1B	X	0	0	0	%100
112	MP1B	Z	3.257	3.257	0	%100
113	M123A	X	0	0	0	%100
114	M123A	Z	.814	.814	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.518	-1.518	0	%100
2	M1	Z	2.63	2.63	0	%100
3	M4	X	-.511	-.511	0	%100
4	M4	Z	.885	.885	0	%100
5	M10	X	-1.252	-1.252	0	%100
6	M10	Z	2.169	2.169	0	%100
7	MP3A	X	-1.628	-1.628	0	%100
8	MP3A	Z	2.82	2.82	0	%100
9	MP4A	X	-1.628	-1.628	0	%100
10	MP4A	Z	2.82	2.82	0	%100
11	MP2A	X	-1.804	-1.804	0	%100
12	MP2A	Z	3.125	3.125	0	%100
13	MP1A	X	-1.628	-1.628	0	%100
14	MP1A	Z	2.82	2.82	0	%100
15	M43	X	-1.252	-1.252	0	%100
16	M43	Z	2.169	2.169	0	%100
17	M46	X	-1.963	-1.963	0	%100
18	M46	Z	3.401	3.401	0	%100
19	M51B	X	-1.443	-1.443	0	%100
20	M51B	Z	2.499	2.499	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-.643	-.643	0	%100
24	M76	Z	1.115	1.115	0	%100
25	M77	X	-1.96	-1.96	0	%100
26	M77	Z	3.394	3.394	0	%100
27	M80	X	-2.046	-2.046	0	%100
28	M80	Z	3.543	3.543	0	%100
29	M84	X	-.643	-.643	0	%100
30	M84	Z	1.115	1.115	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	0	0	0	%100
35	M84B	X	-1.221	-1.221	0	%100
36	M84B	Z	2.115	2.115	0	%100
37	M123	X	-.902	-.902	0	%100
38	M123	Z	1.562	1.562	0	%100
39	M44	X	-.511	-.511	0	%100
40	M44	Z	.885	.885	0	%100
41	M45	X	-1.252	-1.252	0	%100
42	M45	Z	2.169	2.169	0	%100
43	M46A	X	-1.252	-1.252	0	%100
44	M46A	Z	2.169	2.169	0	%100
45	M47	X	-1.963	-1.963	0	%100
46	M47	Z	3.401	3.401	0	%100
47	M50A	X	0	0	0	%100
48	M50A	Z	0	0	0	%100
49	M51C	X	-1.443	-1.443	0	%100
50	M51C	Z	2.499	2.499	0	%100
51	M55	X	-.643	-.643	0	%100
52	M55	Z	1.115	1.115	0	%100
53	M56	X	0	0	0	%100
54	M56	Z	0	0	0	%100
55	M58A	X	0	0	0	%100
56	M58A	Z	0	0	0	%100
57	M60	X	-.643	-.643	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[ft,%]	End Location[ft,%]
58	M60	Z	1.115	1.115	0	%100
59	M61	X	-1.96	-1.96	0	%100
60	M61	Z	3.394	3.394	0	%100
61	M63	X	-2.046	-2.046	0	%100
62	M63	Z	3.543	3.543	0	%100
63	M70	X	-.902	-.902	0	%100
64	M70	Z	1.562	1.562	0	%100
65	M71	X	-2.044	-2.044	0	%100
66	M71	Z	3.54	3.54	0	%100
67	M72	X	0	0	0	%100
68	M72	Z	0	0	0	%100
69	M73	X	0	0	0	%100
70	M73	Z	0	0	0	%100
71	M74	X	0	0	0	%100
72	M74	Z	0	0	0	%100
73	M77A	X	-1.443	-1.443	0	%100
74	M77A	Z	2.499	2.499	0	%100
75	M78	X	-1.443	-1.443	0	%100
76	M78	Z	2.499	2.499	0	%100
77	M82	X	-2.574	-2.574	0	%100
78	M82	Z	4.458	4.458	0	%100
79	M83A	X	-1.96	-1.96	0	%100
80	M83A	Z	3.394	3.394	0	%100
81	M85A	X	-2.046	-2.046	0	%100
82	M85A	Z	3.543	3.543	0	%100
83	M87	X	-2.574	-2.574	0	%100
84	M87	Z	4.458	4.458	0	%100
85	M88A	X	-1.96	-1.96	0	%100
86	M88A	Z	3.394	3.394	0	%100
87	M90	X	-2.046	-2.046	0	%100
88	M90	Z	3.543	3.543	0	%100
89	M97	X	0	0	0	%100
90	M97	Z	0	0	0	%100
91	M98	X	-1.518	-1.518	0	%100
92	M98	Z	2.63	2.63	0	%100
93	MP3C	X	-1.628	-1.628	0	%100
94	MP3C	Z	2.82	2.82	0	%100
95	MP4C	X	-1.628	-1.628	0	%100
96	MP4C	Z	2.82	2.82	0	%100
97	MP2C	X	-1.804	-1.804	0	%100
98	MP2C	Z	3.125	3.125	0	%100
99	MP1C	X	-1.628	-1.628	0	%100
100	MP1C	Z	2.82	2.82	0	%100
101	M107	X	-1.221	-1.221	0	%100
102	M107	Z	2.115	2.115	0	%100
103	M114	X	0	0	0	%100
104	M114	Z	0	0	0	%100
105	MP3B	X	-1.628	-1.628	0	%100
106	MP3B	Z	2.82	2.82	0	%100
107	MP4B	X	-1.628	-1.628	0	%100
108	MP4B	Z	2.82	2.82	0	%100
109	MP2B	X	-1.804	-1.804	0	%100
110	MP2B	Z	3.125	3.125	0	%100
111	MP1B	X	-1.628	-1.628	0	%100
112	MP1B	Z	2.82	2.82	0	%100
113	M123A	X	0	0	0	%100
114	M123A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.877	-.877	0	%100
2	M1	Z	.506	.506	0	%100
3	M4	X	-2.655	-2.655	0	%100
4	M4	Z	1.533	1.533	0	%100
5	M10	X	-.723	-.723	0	%100
6	M10	Z	.417	.417	0	%100
7	MP3A	X	-2.82	-2.82	0	%100
8	MP3A	Z	1.628	1.628	0	%100
9	MP4A	X	-2.82	-2.82	0	%100
10	MP4A	Z	1.628	1.628	0	%100
11	MP2A	X	-3.125	-3.125	0	%100
12	MP2A	Z	1.804	1.804	0	%100
13	MP1A	X	-2.82	-2.82	0	%100
14	MP1A	Z	1.628	1.628	0	%100
15	M43	X	-.723	-.723	0	%100
16	M43	Z	.417	.417	0	%100
17	M46	X	-1.134	-1.134	0	%100
18	M46	Z	.654	.654	0	%100
19	M51B	X	-3.332	-3.332	0	%100
20	M51B	Z	1.924	1.924	0	%100
21	M52B	X	-.833	-.833	0	%100
22	M52B	Z	.481	.481	0	%100
23	M76	X	-3.344	-3.344	0	%100
24	M76	Z	1.93	1.93	0	%100
25	M77	X	-4.526	-4.526	0	%100
26	M77	Z	2.613	2.613	0	%100
27	M80	X	-4.724	-4.724	0	%100
28	M80	Z	2.728	2.728	0	%100
29	M84	X	-3.344	-3.344	0	%100
30	M84	Z	1.93	1.93	0	%100
31	M85	X	-1.131	-1.131	0	%100
32	M85	Z	.653	.653	0	%100
33	M91	X	-1.181	-1.181	0	%100
34	M91	Z	.682	.682	0	%100
35	M84B	X	-.705	-.705	0	%100
36	M84B	Z	.407	.407	0	%100
37	M123	X	-.521	-.521	0	%100
38	M123	Z	.301	.301	0	%100
39	M44	X	0	0	0	%100
40	M44	Z	0	0	0	%100
41	M45	X	-2.892	-2.892	0	%100
42	M45	Z	1.67	1.67	0	%100
43	M46A	X	-2.892	-2.892	0	%100
44	M46A	Z	1.67	1.67	0	%100
45	M47	X	-4.534	-4.534	0	%100
46	M47	Z	2.618	2.618	0	%100
47	M50A	X	-.833	-.833	0	%100
48	M50A	Z	.481	.481	0	%100
49	M51C	X	-.833	-.833	0	%100
50	M51C	Z	.481	.481	0	%100
51	M55	X	0	0	0	%100
52	M55	Z	0	0	0	%100
53	M56	X	-1.131	-1.131	0	%100
54	M56	Z	.653	.653	0	%100
55	M58A	X	-1.181	-1.181	0	%100
56	M58A	Z	.682	.682	0	%100
57	M60	X	0	0	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[ft,%]	End Location[ft,%]
58	M60	Z	0	0	0	%100
59	M61	X	-1.131	-1.131	0	%100
60	M61	Z	.653	.653	0	%100
61	M63	X	-1.181	-1.181	0	%100
62	M63	Z	.682	.682	0	%100
63	M70	X	-2.083	-2.083	0	%100
64	M70	Z	1.203	1.203	0	%100
65	M71	X	-2.655	-2.655	0	%100
66	M71	Z	1.533	1.533	0	%100
67	M72	X	-.723	-.723	0	%100
68	M72	Z	.417	.417	0	%100
69	M73	X	-.723	-.723	0	%100
70	M73	Z	.417	.417	0	%100
71	M74	X	-1.134	-1.134	0	%100
72	M74	Z	.654	.654	0	%100
73	M77A	X	-.833	-.833	0	%100
74	M77A	Z	.481	.481	0	%100
75	M78	X	-3.332	-3.332	0	%100
76	M78	Z	1.924	1.924	0	%100
77	M82	X	-3.344	-3.344	0	%100
78	M82	Z	1.93	1.93	0	%100
79	M83A	X	-1.131	-1.131	0	%100
80	M83A	Z	.653	.653	0	%100
81	M85A	X	-1.181	-1.181	0	%100
82	M85A	Z	.682	.682	0	%100
83	M87	X	-3.344	-3.344	0	%100
84	M87	Z	1.93	1.93	0	%100
85	M88A	X	-4.526	-4.526	0	%100
86	M88A	Z	2.613	2.613	0	%100
87	M90	X	-4.724	-4.724	0	%100
88	M90	Z	2.728	2.728	0	%100
89	M97	X	-.521	-.521	0	%100
90	M97	Z	.301	.301	0	%100
91	M98	X	-3.506	-3.506	0	%100
92	M98	Z	2.024	2.024	0	%100
93	MP3C	X	-2.82	-2.82	0	%100
94	MP3C	Z	1.628	1.628	0	%100
95	MP4C	X	-2.82	-2.82	0	%100
96	MP4C	Z	1.628	1.628	0	%100
97	MP2C	X	-3.125	-3.125	0	%100
98	MP2C	Z	1.804	1.804	0	%100
99	MP1C	X	-2.82	-2.82	0	%100
100	MP1C	Z	1.628	1.628	0	%100
101	M107	X	-2.82	-2.82	0	%100
102	M107	Z	1.628	1.628	0	%100
103	M114	X	-.877	-.877	0	%100
104	M114	Z	.506	.506	0	%100
105	MP3B	X	-2.82	-2.82	0	%100
106	MP3B	Z	1.628	1.628	0	%100
107	MP4B	X	-2.82	-2.82	0	%100
108	MP4B	Z	1.628	1.628	0	%100
109	MP2B	X	-3.125	-3.125	0	%100
110	MP2B	Z	1.804	1.804	0	%100
111	MP1B	X	-2.82	-2.82	0	%100
112	MP1B	Z	1.628	1.628	0	%100
113	M123A	X	-.705	-.705	0	%100
114	M123A	Z	.407	.407	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	-4.087	-4.087	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	-3.257	-3.257	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	-3.257	-3.257	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	-3.609	-3.609	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	-3.257	-3.257	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	-2.885	-2.885	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-2.885	-2.885	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-5.148	-5.148	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	-3.919	-3.919	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	-4.091	-4.091	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	-5.148	-5.148	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	-3.919	-3.919	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	-4.091	-4.091	0	%100
34	M91	Z	0	0	0	%100
35	M84B	X	0	0	0	%100
36	M84B	Z	0	0	0	%100
37	M123	X	0	0	0	%100
38	M123	Z	0	0	0	%100
39	M44	X	-1.022	-1.022	0	%100
40	M44	Z	0	0	0	%100
41	M45	X	-2.505	-2.505	0	%100
42	M45	Z	0	0	0	%100
43	M46A	X	-2.505	-2.505	0	%100
44	M46A	Z	0	0	0	%100
45	M47	X	-3.927	-3.927	0	%100
46	M47	Z	0	0	0	%100
47	M50A	X	-2.885	-2.885	0	%100
48	M50A	Z	0	0	0	%100
49	M51C	X	0	0	0	%100
50	M51C	Z	0	0	0	%100
51	M55	X	-1.287	-1.287	0	%100
52	M55	Z	0	0	0	%100
53	M56	X	-3.919	-3.919	0	%100
54	M56	Z	0	0	0	%100
55	M58A	X	-4.091	-4.091	0	%100
56	M58A	Z	0	0	0	%100
57	M60	X	-1.287	-1.287	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[ft,%]	End Location[ft,%]
58	M60	Z	0	0	0	%100
59	M61	X	0	0	0	%100
60	M61	Z	0	0	0	%100
61	M63	X	0	0	0	%100
62	M63	Z	0	0	0	%100
63	M70	X	-1.804	-1.804	0	%100
64	M70	Z	0	0	0	%100
65	M71	X	-1.022	-1.022	0	%100
66	M71	Z	0	0	0	%100
67	M72	X	-2.505	-2.505	0	%100
68	M72	Z	0	0	0	%100
69	M73	X	-2.505	-2.505	0	%100
70	M73	Z	0	0	0	%100
71	M74	X	-3.927	-3.927	0	%100
72	M74	Z	0	0	0	%100
73	M77A	X	0	0	0	%100
74	M77A	Z	0	0	0	%100
75	M78	X	-2.885	-2.885	0	%100
76	M78	Z	0	0	0	%100
77	M82	X	-1.287	-1.287	0	%100
78	M82	Z	0	0	0	%100
79	M83A	X	0	0	0	%100
80	M83A	Z	0	0	0	%100
81	M85A	X	0	0	0	%100
82	M85A	Z	0	0	0	%100
83	M87	X	-1.287	-1.287	0	%100
84	M87	Z	0	0	0	%100
85	M88A	X	-3.919	-3.919	0	%100
86	M88A	Z	0	0	0	%100
87	M90	X	-4.091	-4.091	0	%100
88	M90	Z	0	0	0	%100
89	M97	X	-1.804	-1.804	0	%100
90	M97	Z	0	0	0	%100
91	M98	X	-3.036	-3.036	0	%100
92	M98	Z	0	0	0	%100
93	MP3C	X	-3.257	-3.257	0	%100
94	MP3C	Z	0	0	0	%100
95	MP4C	X	-3.257	-3.257	0	%100
96	MP4C	Z	0	0	0	%100
97	MP2C	X	-3.609	-3.609	0	%100
98	MP2C	Z	0	0	0	%100
99	MP1C	X	-3.257	-3.257	0	%100
100	MP1C	Z	0	0	0	%100
101	M107	X	-2.442	-2.442	0	%100
102	M107	Z	0	0	0	%100
103	M114	X	-3.036	-3.036	0	%100
104	M114	Z	0	0	0	%100
105	MP3B	X	-3.257	-3.257	0	%100
106	MP3B	Z	0	0	0	%100
107	MP4B	X	-3.257	-3.257	0	%100
108	MP4B	Z	0	0	0	%100
109	MP2B	X	-3.609	-3.609	0	%100
110	MP2B	Z	0	0	0	%100
111	MP1B	X	-3.257	-3.257	0	%100
112	MP1B	Z	0	0	0	%100
113	M123A	X	-2.442	-2.442	0	%100
114	M123A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.877	-.877	0	%100
2	M1	Z	-.506	-.506	0	%100
3	M4	X	-2.655	-2.655	0	%100
4	M4	Z	-1.533	-1.533	0	%100
5	M10	X	-.723	-.723	0	%100
6	M10	Z	-.417	-.417	0	%100
7	MP3A	X	-2.82	-2.82	0	%100
8	MP3A	Z	-1.628	-1.628	0	%100
9	MP4A	X	-2.82	-2.82	0	%100
10	MP4A	Z	-1.628	-1.628	0	%100
11	MP2A	X	-3.125	-3.125	0	%100
12	MP2A	Z	-1.804	-1.804	0	%100
13	MP1A	X	-2.82	-2.82	0	%100
14	MP1A	Z	-1.628	-1.628	0	%100
15	M43	X	-.723	-.723	0	%100
16	M43	Z	-.417	-.417	0	%100
17	M46	X	-1.134	-1.134	0	%100
18	M46	Z	-.654	-.654	0	%100
19	M51B	X	-.833	-.833	0	%100
20	M51B	Z	-.481	-.481	0	%100
21	M52B	X	-3.332	-3.332	0	%100
22	M52B	Z	-1.924	-1.924	0	%100
23	M76	X	-3.344	-3.344	0	%100
24	M76	Z	-1.93	-1.93	0	%100
25	M77	X	-1.131	-1.131	0	%100
26	M77	Z	-.653	-.653	0	%100
27	M80	X	-1.181	-1.181	0	%100
28	M80	Z	-.682	-.682	0	%100
29	M84	X	-3.344	-3.344	0	%100
30	M84	Z	-1.93	-1.93	0	%100
31	M85	X	-4.526	-4.526	0	%100
32	M85	Z	-2.613	-2.613	0	%100
33	M91	X	-4.724	-4.724	0	%100
34	M91	Z	-2.728	-2.728	0	%100
35	M84B	X	-.705	-.705	0	%100
36	M84B	Z	-.407	-.407	0	%100
37	M123	X	-.521	-.521	0	%100
38	M123	Z	-.301	-.301	0	%100
39	M44	X	-2.655	-2.655	0	%100
40	M44	Z	-1.533	-1.533	0	%100
41	M45	X	-.723	-.723	0	%100
42	M45	Z	-.417	-.417	0	%100
43	M46A	X	-.723	-.723	0	%100
44	M46A	Z	-.417	-.417	0	%100
45	M47	X	-1.134	-1.134	0	%100
46	M47	Z	-.654	-.654	0	%100
47	M50A	X	-3.332	-3.332	0	%100
48	M50A	Z	-1.924	-1.924	0	%100
49	M51C	X	-.833	-.833	0	%100
50	M51C	Z	-.481	-.481	0	%100
51	M55	X	-3.344	-3.344	0	%100
52	M55	Z	-1.93	-1.93	0	%100
53	M56	X	-4.526	-4.526	0	%100
54	M56	Z	-2.613	-2.613	0	%100
55	M58A	X	-4.724	-4.724	0	%100
56	M58A	Z	-2.728	-2.728	0	%100
57	M60	X	-3.344	-3.344	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[ft,%]	End Location[ft,%]
58	M60	Z	-1.93	-1.93	0	%100
59	M61	X	-1.131	-1.131	0	%100
60	M61	Z	-.653	-.653	0	%100
61	M63	X	-1.181	-1.181	0	%100
62	M63	Z	-.682	-.682	0	%100
63	M70	X	-.521	-.521	0	%100
64	M70	Z	-.301	-.301	0	%100
65	M71	X	0	0	0	%100
66	M71	Z	0	0	0	%100
67	M72	X	-2.892	-2.892	0	%100
68	M72	Z	-1.67	-1.67	0	%100
69	M73	X	-2.892	-2.892	0	%100
70	M73	Z	-1.67	-1.67	0	%100
71	M74	X	-4.534	-4.534	0	%100
72	M74	Z	-2.618	-2.618	0	%100
73	M77A	X	-.833	-.833	0	%100
74	M77A	Z	-.481	-.481	0	%100
75	M78	X	-.833	-.833	0	%100
76	M78	Z	-.481	-.481	0	%100
77	M82	X	0	0	0	%100
78	M82	Z	0	0	0	%100
79	M83A	X	-1.131	-1.131	0	%100
80	M83A	Z	-.653	-.653	0	%100
81	M85A	X	-1.181	-1.181	0	%100
82	M85A	Z	-.682	-.682	0	%100
83	M87	X	0	0	0	%100
84	M87	Z	0	0	0	%100
85	M88A	X	-1.131	-1.131	0	%100
86	M88A	Z	-.653	-.653	0	%100
87	M90	X	-1.181	-1.181	0	%100
88	M90	Z	-.682	-.682	0	%100
89	M97	X	-2.083	-2.083	0	%100
90	M97	Z	-1.203	-1.203	0	%100
91	M98	X	-.877	-.877	0	%100
92	M98	Z	-.506	-.506	0	%100
93	MP3C	X	-2.82	-2.82	0	%100
94	MP3C	Z	-1.628	-1.628	0	%100
95	MP4C	X	-2.82	-2.82	0	%100
96	MP4C	Z	-1.628	-1.628	0	%100
97	MP2C	X	-3.125	-3.125	0	%100
98	MP2C	Z	-1.804	-1.804	0	%100
99	MP1C	X	-2.82	-2.82	0	%100
100	MP1C	Z	-1.628	-1.628	0	%100
101	M107	X	-.705	-.705	0	%100
102	M107	Z	-.407	-.407	0	%100
103	M114	X	-3.506	-3.506	0	%100
104	M114	Z	-2.024	-2.024	0	%100
105	MP3B	X	-2.82	-2.82	0	%100
106	MP3B	Z	-1.628	-1.628	0	%100
107	MP4B	X	-2.82	-2.82	0	%100
108	MP4B	Z	-1.628	-1.628	0	%100
109	MP2B	X	-3.125	-3.125	0	%100
110	MP2B	Z	-1.804	-1.804	0	%100
111	MP1B	X	-2.82	-2.82	0	%100
112	MP1B	Z	-1.628	-1.628	0	%100
113	M123A	X	-2.82	-2.82	0	%100
114	M123A	Z	-1.628	-1.628	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.518	-1.518	0	%100
2	M1	Z	-2.63	-2.63	0	%100
3	M4	X	-.511	-.511	0	%100
4	M4	Z	-.885	-.885	0	%100
5	M10	X	-1.252	-1.252	0	%100
6	M10	Z	-2.169	-2.169	0	%100
7	MP3A	X	-1.628	-1.628	0	%100
8	MP3A	Z	-2.82	-2.82	0	%100
9	MP4A	X	-1.628	-1.628	0	%100
10	MP4A	Z	-2.82	-2.82	0	%100
11	MP2A	X	-1.804	-1.804	0	%100
12	MP2A	Z	-3.125	-3.125	0	%100
13	MP1A	X	-1.628	-1.628	0	%100
14	MP1A	Z	-2.82	-2.82	0	%100
15	M43	X	-1.252	-1.252	0	%100
16	M43	Z	-2.169	-2.169	0	%100
17	M46	X	-1.963	-1.963	0	%100
18	M46	Z	-3.401	-3.401	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-1.443	-1.443	0	%100
22	M52B	Z	-2.499	-2.499	0	%100
23	M76	X	-.643	-.643	0	%100
24	M76	Z	-1.115	-1.115	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	-.643	-.643	0	%100
30	M84	Z	-1.115	-1.115	0	%100
31	M85	X	-1.96	-1.96	0	%100
32	M85	Z	-3.394	-3.394	0	%100
33	M91	X	-2.046	-2.046	0	%100
34	M91	Z	-3.543	-3.543	0	%100
35	M84B	X	-1.221	-1.221	0	%100
36	M84B	Z	-2.115	-2.115	0	%100
37	M123	X	-.902	-.902	0	%100
38	M123	Z	-1.562	-1.562	0	%100
39	M44	X	-2.044	-2.044	0	%100
40	M44	Z	-3.54	-3.54	0	%100
41	M45	X	0	0	0	%100
42	M45	Z	0	0	0	%100
43	M46A	X	0	0	0	%100
44	M46A	Z	0	0	0	%100
45	M47	X	0	0	0	%100
46	M47	Z	0	0	0	%100
47	M50A	X	-1.443	-1.443	0	%100
48	M50A	Z	-2.499	-2.499	0	%100
49	M51C	X	-1.443	-1.443	0	%100
50	M51C	Z	-2.499	-2.499	0	%100
51	M55	X	-2.574	-2.574	0	%100
52	M55	Z	-4.458	-4.458	0	%100
53	M56	X	-1.96	-1.96	0	%100
54	M56	Z	-3.394	-3.394	0	%100
55	M58A	X	-2.046	-2.046	0	%100
56	M58A	Z	-3.543	-3.543	0	%100
57	M60	X	-2.574	-2.574	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[ft,%]	End Location[ft,%]
58	M60	Z	-4.458	-4.458	0	%100
59	M61	X	-1.96	-1.96	0	%100
60	M61	Z	-3.394	-3.394	0	%100
61	M63	X	-2.046	-2.046	0	%100
62	M63	Z	-3.543	-3.543	0	%100
63	M70	X	0	0	0	%100
64	M70	Z	0	0	0	%100
65	M71	X	-.511	-.511	0	%100
66	M71	Z	-.885	-.885	0	%100
67	M72	X	-1.252	-1.252	0	%100
68	M72	Z	-2.169	-2.169	0	%100
69	M73	X	-1.252	-1.252	0	%100
70	M73	Z	-2.169	-2.169	0	%100
71	M74	X	-1.963	-1.963	0	%100
72	M74	Z	-3.401	-3.401	0	%100
73	M77A	X	-1.443	-1.443	0	%100
74	M77A	Z	-2.499	-2.499	0	%100
75	M78	X	0	0	0	%100
76	M78	Z	0	0	0	%100
77	M82	X	-.643	-.643	0	%100
78	M82	Z	-1.115	-1.115	0	%100
79	M83A	X	-1.96	-1.96	0	%100
80	M83A	Z	-3.394	-3.394	0	%100
81	M85A	X	-2.046	-2.046	0	%100
82	M85A	Z	-3.543	-3.543	0	%100
83	M87	X	-.643	-.643	0	%100
84	M87	Z	-1.115	-1.115	0	%100
85	M88A	X	0	0	0	%100
86	M88A	Z	0	0	0	%100
87	M90	X	0	0	0	%100
88	M90	Z	0	0	0	%100
89	M97	X	-.902	-.902	0	%100
90	M97	Z	-1.562	-1.562	0	%100
91	M98	X	0	0	0	%100
92	M98	Z	0	0	0	%100
93	MP3C	X	-1.628	-1.628	0	%100
94	MP3C	Z	-2.82	-2.82	0	%100
95	MP4C	X	-1.628	-1.628	0	%100
96	MP4C	Z	-2.82	-2.82	0	%100
97	MP2C	X	-1.804	-1.804	0	%100
98	MP2C	Z	-3.125	-3.125	0	%100
99	MP1C	X	-1.628	-1.628	0	%100
100	MP1C	Z	-2.82	-2.82	0	%100
101	M107	X	0	0	0	%100
102	M107	Z	0	0	0	%100
103	M114	X	-1.518	-1.518	0	%100
104	M114	Z	-2.63	-2.63	0	%100
105	MP3B	X	-1.628	-1.628	0	%100
106	MP3B	Z	-2.82	-2.82	0	%100
107	MP4B	X	-1.628	-1.628	0	%100
108	MP4B	Z	-2.82	-2.82	0	%100
109	MP2B	X	-1.804	-1.804	0	%100
110	MP2B	Z	-3.125	-3.125	0	%100
111	MP1B	X	-1.628	-1.628	0	%100
112	MP1B	Z	-2.82	-2.82	0	%100
113	M123A	X	-1.221	-1.221	0	%100
114	M123A	Z	-2.115	-2.115	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-.843	-.843	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	-.762	-.762	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-.602	-.602	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	-.602	-.602	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	-.728	-.728	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	-.602	-.602	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	-.762	-.762	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	-1.52	-1.52	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	-.211	-.211	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	-.211	-.211	0	%100
23	M76	X	0	0	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	-.387	-.387	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	-.408	-.408	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	-.387	-.387	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	-.408	-.408	0	%100
35	M84B	X	0	0	0	%100
36	M84B	Z	-.602	-.602	0	%100
37	M123	X	0	0	0	%100
38	M123	Z	-.441	-.441	0	%100
39	M44	X	0	0	0	%100
40	M44	Z	-.676	-.676	0	%100
41	M45	X	0	0	0	%100
42	M45	Z	-.191	-.191	0	%100
43	M46A	X	0	0	0	%100
44	M46A	Z	-.191	-.191	0	%100
45	M47	X	0	0	0	%100
46	M47	Z	-.38	-.38	0	%100
47	M50A	X	0	0	0	%100
48	M50A	Z	-.211	-.211	0	%100
49	M51C	X	0	0	0	%100
50	M51C	Z	-.844	-.844	0	%100
51	M55	X	0	0	0	%100
52	M55	Z	-1.14	-1.14	0	%100
53	M56	X	0	0	0	%100
54	M56	Z	-.387	-.387	0	%100
55	M58A	X	0	0	0	%100
56	M58A	Z	-.408	-.408	0	%100
57	M60	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[ft,%]	End Location[ft,%]
58	M60	Z	-1.14	-1.14	0	%100
59	M61	X	0	0	0	%100
60	M61	Z	-1.548	-1.548	0	%100
61	M63	X	0	0	0	%100
62	M63	Z	-1.631	-1.631	0	%100
63	M70	X	0	0	0	%100
64	M70	Z	-.11	-.11	0	%100
65	M71	X	0	0	0	%100
66	M71	Z	-.676	-.676	0	%100
67	M72	X	0	0	0	%100
68	M72	Z	-.191	-.191	0	%100
69	M73	X	0	0	0	%100
70	M73	Z	-.191	-.191	0	%100
71	M74	X	0	0	0	%100
72	M74	Z	-.38	-.38	0	%100
73	M77A	X	0	0	0	%100
74	M77A	Z	-.844	-.844	0	%100
75	M78	X	0	0	0	%100
76	M78	Z	-.211	-.211	0	%100
77	M82	X	0	0	0	%100
78	M82	Z	-1.14	-1.14	0	%100
79	M83A	X	0	0	0	%100
80	M83A	Z	-1.548	-1.548	0	%100
81	M85A	X	0	0	0	%100
82	M85A	Z	-1.631	-1.631	0	%100
83	M87	X	0	0	0	%100
84	M87	Z	-1.14	-1.14	0	%100
85	M88A	X	0	0	0	%100
86	M88A	Z	-.387	-.387	0	%100
87	M90	X	0	0	0	%100
88	M90	Z	-.408	-.408	0	%100
89	M97	X	0	0	0	%100
90	M97	Z	-.11	-.11	0	%100
91	M98	X	0	0	0	%100
92	M98	Z	-.211	-.211	0	%100
93	MP3C	X	0	0	0	%100
94	MP3C	Z	-.602	-.602	0	%100
95	MP4C	X	0	0	0	%100
96	MP4C	Z	-.602	-.602	0	%100
97	MP2C	X	0	0	0	%100
98	MP2C	Z	-.728	-.728	0	%100
99	MP1C	X	0	0	0	%100
100	MP1C	Z	-.602	-.602	0	%100
101	M107	X	0	0	0	%100
102	M107	Z	-.15	-.15	0	%100
103	M114	X	0	0	0	%100
104	M114	Z	-.211	-.211	0	%100
105	MP3B	X	0	0	0	%100
106	MP3B	Z	-.602	-.602	0	%100
107	MP4B	X	0	0	0	%100
108	MP4B	Z	-.602	-.602	0	%100
109	MP2B	X	0	0	0	%100
110	MP2B	Z	-.728	-.728	0	%100
111	MP1B	X	0	0	0	%100
112	MP1B	Z	-.602	-.602	0	%100
113	M123A	X	0	0	0	%100
114	M123A	Z	-.15	-.15	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.316	.316	0	%100
2	M1	Z	-.548	-.548	0	%100
3	M4	X	.113	.113	0	%100
4	M4	Z	-.195	-.195	0	%100
5	M10	X	.286	.286	0	%100
6	M10	Z	-.495	-.495	0	%100
7	MP3A	X	.301	.301	0	%100
8	MP3A	Z	-.521	-.521	0	%100
9	MP4A	X	.301	.301	0	%100
10	MP4A	Z	-.521	-.521	0	%100
11	MP2A	X	.364	.364	0	%100
12	MP2A	Z	-.631	-.631	0	%100
13	MP1A	X	.301	.301	0	%100
14	MP1A	Z	-.521	-.521	0	%100
15	M43	X	.286	.286	0	%100
16	M43	Z	-.495	-.495	0	%100
17	M46	X	.57	.57	0	%100
18	M46	Z	-.987	-.987	0	%100
19	M51B	X	.317	.317	0	%100
20	M51B	Z	-.548	-.548	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	.19	.19	0	%100
24	M76	Z	-.329	-.329	0	%100
25	M77	X	.581	.581	0	%100
26	M77	Z	-1.006	-1.006	0	%100
27	M80	X	.612	.612	0	%100
28	M80	Z	-1.059	-1.059	0	%100
29	M84	X	.19	.19	0	%100
30	M84	Z	-.329	-.329	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	0	0	0	%100
35	M84B	X	.226	.226	0	%100
36	M84B	Z	-.391	-.391	0	%100
37	M123	X	.166	.166	0	%100
38	M123	Z	-.287	-.287	0	%100
39	M44	X	.113	.113	0	%100
40	M44	Z	-.195	-.195	0	%100
41	M45	X	.286	.286	0	%100
42	M45	Z	-.495	-.495	0	%100
43	M46A	X	.286	.286	0	%100
44	M46A	Z	-.495	-.495	0	%100
45	M47	X	.57	.57	0	%100
46	M47	Z	-.987	-.987	0	%100
47	M50A	X	0	0	0	%100
48	M50A	Z	0	0	0	%100
49	M51C	X	.317	.317	0	%100
50	M51C	Z	-.548	-.548	0	%100
51	M55	X	.19	.19	0	%100
52	M55	Z	-.329	-.329	0	%100
53	M56	X	0	0	0	%100
54	M56	Z	0	0	0	%100
55	M58A	X	0	0	0	%100
56	M58A	Z	0	0	0	%100
57	M60	X	.19	.19	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[ft,%]	End Location[ft,%]
58	M60	Z	-.329	-.329	0	%100
59	M61	X	.581	.581	0	%100
60	M61	Z	-1.006	-1.006	0	%100
61	M63	X	.612	.612	0	%100
62	M63	Z	-1.059	-1.059	0	%100
63	M70	X	.166	.166	0	%100
64	M70	Z	-.287	-.287	0	%100
65	M71	X	.45	.45	0	%100
66	M71	Z	-.78	-.78	0	%100
67	M72	X	0	0	0	%100
68	M72	Z	0	0	0	%100
69	M73	X	0	0	0	%100
70	M73	Z	0	0	0	%100
71	M74	X	0	0	0	%100
72	M74	Z	0	0	0	%100
73	M77A	X	.317	.317	0	%100
74	M77A	Z	-.548	-.548	0	%100
75	M78	X	.317	.317	0	%100
76	M78	Z	-.548	-.548	0	%100
77	M82	X	.76	.76	0	%100
78	M82	Z	-1.317	-1.317	0	%100
79	M83A	X	.581	.581	0	%100
80	M83A	Z	-1.006	-1.006	0	%100
81	M85A	X	.612	.612	0	%100
82	M85A	Z	-1.059	-1.059	0	%100
83	M87	X	.76	.76	0	%100
84	M87	Z	-1.317	-1.317	0	%100
85	M88A	X	.581	.581	0	%100
86	M88A	Z	-1.006	-1.006	0	%100
87	M90	X	.612	.612	0	%100
88	M90	Z	-1.059	-1.059	0	%100
89	M97	X	0	0	0	%100
90	M97	Z	0	0	0	%100
91	M98	X	.316	.316	0	%100
92	M98	Z	-.548	-.548	0	%100
93	MP3C	X	.301	.301	0	%100
94	MP3C	Z	-.521	-.521	0	%100
95	MP4C	X	.301	.301	0	%100
96	MP4C	Z	-.521	-.521	0	%100
97	MP2C	X	.364	.364	0	%100
98	MP2C	Z	-.631	-.631	0	%100
99	MP1C	X	.301	.301	0	%100
100	MP1C	Z	-.521	-.521	0	%100
101	M107	X	.226	.226	0	%100
102	M107	Z	-.391	-.391	0	%100
103	M114	X	0	0	0	%100
104	M114	Z	0	0	0	%100
105	MP3B	X	.301	.301	0	%100
106	MP3B	Z	-.521	-.521	0	%100
107	MP4B	X	.301	.301	0	%100
108	MP4B	Z	-.521	-.521	0	%100
109	MP2B	X	.364	.364	0	%100
110	MP2B	Z	-.631	-.631	0	%100
111	MP1B	X	.301	.301	0	%100
112	MP1B	Z	-.521	-.521	0	%100
113	M123A	X	0	0	0	%100
114	M123A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.183	.183	0	%100
2	M1	Z	-.105	-.105	0	%100
3	M4	X	.585	.585	0	%100
4	M4	Z	-.338	-.338	0	%100
5	M10	X	.165	.165	0	%100
6	M10	Z	-.095	-.095	0	%100
7	MP3A	X	.521	.521	0	%100
8	MP3A	Z	-.301	-.301	0	%100
9	MP4A	X	.521	.521	0	%100
10	MP4A	Z	-.301	-.301	0	%100
11	MP2A	X	.631	.631	0	%100
12	MP2A	Z	-.364	-.364	0	%100
13	MP1A	X	.521	.521	0	%100
14	MP1A	Z	-.301	-.301	0	%100
15	M43	X	.165	.165	0	%100
16	M43	Z	-.095	-.095	0	%100
17	M46	X	.329	.329	0	%100
18	M46	Z	-.19	-.19	0	%100
19	M51B	X	.731	.731	0	%100
20	M51B	Z	-.422	-.422	0	%100
21	M52B	X	.183	.183	0	%100
22	M52B	Z	-.106	-.106	0	%100
23	M76	X	.987	.987	0	%100
24	M76	Z	-.57	-.57	0	%100
25	M77	X	1.341	1.341	0	%100
26	M77	Z	-.774	-.774	0	%100
27	M80	X	1.412	1.412	0	%100
28	M80	Z	-.815	-.815	0	%100
29	M84	X	.987	.987	0	%100
30	M84	Z	-.57	-.57	0	%100
31	M85	X	.335	.335	0	%100
32	M85	Z	-.194	-.194	0	%100
33	M91	X	.353	.353	0	%100
34	M91	Z	-.204	-.204	0	%100
35	M84B	X	.13	.13	0	%100
36	M84B	Z	-.075	-.075	0	%100
37	M123	X	.096	.096	0	%100
38	M123	Z	-.055	-.055	0	%100
39	M44	X	0	0	0	%100
40	M44	Z	0	0	0	%100
41	M45	X	.66	.66	0	%100
42	M45	Z	-.381	-.381	0	%100
43	M46A	X	.66	.66	0	%100
44	M46A	Z	-.381	-.381	0	%100
45	M47	X	1.317	1.317	0	%100
46	M47	Z	-.76	-.76	0	%100
47	M50A	X	.183	.183	0	%100
48	M50A	Z	-.106	-.106	0	%100
49	M51C	X	.183	.183	0	%100
50	M51C	Z	-.106	-.106	0	%100
51	M55	X	0	0	0	%100
52	M55	Z	0	0	0	%100
53	M56	X	.335	.335	0	%100
54	M56	Z	-.194	-.194	0	%100
55	M58A	X	.353	.353	0	%100
56	M58A	Z	-.204	-.204	0	%100
57	M60	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M60	Z	0	0	0	%100
59	M61	X	.335	.335	0	%100
60	M61	Z	-.194	-.194	0	%100
61	M63	X	.353	.353	0	%100
62	M63	Z	-.204	-.204	0	%100
63	M70	X	.382	.382	0	%100
64	M70	Z	-.221	-.221	0	%100
65	M71	X	.585	.585	0	%100
66	M71	Z	-.338	-.338	0	%100
67	M72	X	.165	.165	0	%100
68	M72	Z	-.095	-.095	0	%100
69	M73	X	.165	.165	0	%100
70	M73	Z	-.095	-.095	0	%100
71	M74	X	.329	.329	0	%100
72	M74	Z	-.19	-.19	0	%100
73	M77A	X	.183	.183	0	%100
74	M77A	Z	-.106	-.106	0	%100
75	M78	X	.731	.731	0	%100
76	M78	Z	-.422	-.422	0	%100
77	M82	X	.987	.987	0	%100
78	M82	Z	-.57	-.57	0	%100
79	M83A	X	.335	.335	0	%100
80	M83A	Z	-.194	-.194	0	%100
81	M85A	X	.353	.353	0	%100
82	M85A	Z	-.204	-.204	0	%100
83	M87	X	.987	.987	0	%100
84	M87	Z	-.57	-.57	0	%100
85	M88A	X	1.341	1.341	0	%100
86	M88A	Z	-.774	-.774	0	%100
87	M90	X	1.412	1.412	0	%100
88	M90	Z	-.815	-.815	0	%100
89	M97	X	.096	.096	0	%100
90	M97	Z	-.055	-.055	0	%100
91	M98	X	.73	.73	0	%100
92	M98	Z	-.422	-.422	0	%100
93	MP3C	X	.521	.521	0	%100
94	MP3C	Z	-.301	-.301	0	%100
95	MP4C	X	.521	.521	0	%100
96	MP4C	Z	-.301	-.301	0	%100
97	MP2C	X	.631	.631	0	%100
98	MP2C	Z	-.364	-.364	0	%100
99	MP1C	X	.521	.521	0	%100
100	MP1C	Z	-.301	-.301	0	%100
101	M107	X	.521	.521	0	%100
102	M107	Z	-.301	-.301	0	%100
103	M114	X	.183	.183	0	%100
104	M114	Z	-.105	-.105	0	%100
105	MP3B	X	.521	.521	0	%100
106	MP3B	Z	-.301	-.301	0	%100
107	MP4B	X	.521	.521	0	%100
108	MP4B	Z	-.301	-.301	0	%100
109	MP2B	X	.631	.631	0	%100
110	MP2B	Z	-.364	-.364	0	%100
111	MP1B	X	.521	.521	0	%100
112	MP1B	Z	-.301	-.301	0	%100
113	M123A	X	.13	.13	0	%100
114	M123A	Z	-.075	-.075	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	.901	.901	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	.602	.602	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	.602	.602	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	.728	.728	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	.602	.602	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	.633	.633	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	.633	.633	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	1.52	1.52	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	1.161	1.161	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	1.223	1.223	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	1.52	1.52	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	1.161	1.161	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	1.223	1.223	0	%100
34	M91	Z	0	0	0	%100
35	M84B	X	0	0	0	%100
36	M84B	Z	0	0	0	%100
37	M123	X	0	0	0	%100
38	M123	Z	0	0	0	%100
39	M44	X	.225	.225	0	%100
40	M44	Z	0	0	0	%100
41	M45	X	.572	.572	0	%100
42	M45	Z	0	0	0	%100
43	M46A	X	.572	.572	0	%100
44	M46A	Z	0	0	0	%100
45	M47	X	1.14	1.14	0	%100
46	M47	Z	0	0	0	%100
47	M50A	X	.633	.633	0	%100
48	M50A	Z	0	0	0	%100
49	M51C	X	0	0	0	%100
50	M51C	Z	0	0	0	%100
51	M55	X	.38	.38	0	%100
52	M55	Z	0	0	0	%100
53	M56	X	1.161	1.161	0	%100
54	M56	Z	0	0	0	%100
55	M58A	X	1.223	1.223	0	%100
56	M58A	Z	0	0	0	%100
57	M60	X	.38	.38	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[ft,%]	End Location[ft,%]
58	M60	Z	0	0	0	%100
59	M61	X	0	0	0	%100
60	M61	Z	0	0	0	%100
61	M63	X	0	0	0	%100
62	M63	Z	0	0	0	%100
63	M70	X	.331	.331	0	%100
64	M70	Z	0	0	0	%100
65	M71	X	.225	.225	0	%100
66	M71	Z	0	0	0	%100
67	M72	X	.572	.572	0	%100
68	M72	Z	0	0	0	%100
69	M73	X	.572	.572	0	%100
70	M73	Z	0	0	0	%100
71	M74	X	1.14	1.14	0	%100
72	M74	Z	0	0	0	%100
73	M77A	X	0	0	0	%100
74	M77A	Z	0	0	0	%100
75	M78	X	.633	.633	0	%100
76	M78	Z	0	0	0	%100
77	M82	X	.38	.38	0	%100
78	M82	Z	0	0	0	%100
79	M83A	X	0	0	0	%100
80	M83A	Z	0	0	0	%100
81	M85A	X	0	0	0	%100
82	M85A	Z	0	0	0	%100
83	M87	X	.38	.38	0	%100
84	M87	Z	0	0	0	%100
85	M88A	X	1.161	1.161	0	%100
86	M88A	Z	0	0	0	%100
87	M90	X	1.223	1.223	0	%100
88	M90	Z	0	0	0	%100
89	M97	X	.331	.331	0	%100
90	M97	Z	0	0	0	%100
91	M98	X	.632	.632	0	%100
92	M98	Z	0	0	0	%100
93	MP3C	X	.602	.602	0	%100
94	MP3C	Z	0	0	0	%100
95	MP4C	X	.602	.602	0	%100
96	MP4C	Z	0	0	0	%100
97	MP2C	X	.728	.728	0	%100
98	MP2C	Z	0	0	0	%100
99	MP1C	X	.602	.602	0	%100
100	MP1C	Z	0	0	0	%100
101	M107	X	.451	.451	0	%100
102	M107	Z	0	0	0	%100
103	M114	X	.632	.632	0	%100
104	M114	Z	0	0	0	%100
105	MP3B	X	.602	.602	0	%100
106	MP3B	Z	0	0	0	%100
107	MP4B	X	.602	.602	0	%100
108	MP4B	Z	0	0	0	%100
109	MP2B	X	.728	.728	0	%100
110	MP2B	Z	0	0	0	%100
111	MP1B	X	.602	.602	0	%100
112	MP1B	Z	0	0	0	%100
113	M123A	X	.451	.451	0	%100
114	M123A	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[ft,%]	End Location[ft,%]
1	M1	X	.183	.183	0	%100
2	M1	Z	.105	.105	0	%100
3	M4	X	.585	.585	0	%100
4	M4	Z	.338	.338	0	%100
5	M10	X	.165	.165	0	%100
6	M10	Z	.095	.095	0	%100
7	MP3A	X	.521	.521	0	%100
8	MP3A	Z	.301	.301	0	%100
9	MP4A	X	.521	.521	0	%100
10	MP4A	Z	.301	.301	0	%100
11	MP2A	X	.631	.631	0	%100
12	MP2A	Z	.364	.364	0	%100
13	MP1A	X	.521	.521	0	%100
14	MP1A	Z	.301	.301	0	%100
15	M43	X	.165	.165	0	%100
16	M43	Z	.095	.095	0	%100
17	M46	X	.329	.329	0	%100
18	M46	Z	.19	.19	0	%100
19	M51B	X	.183	.183	0	%100
20	M51B	Z	.106	.106	0	%100
21	M52B	X	.731	.731	0	%100
22	M52B	Z	.422	.422	0	%100
23	M76	X	.987	.987	0	%100
24	M76	Z	.57	.57	0	%100
25	M77	X	.335	.335	0	%100
26	M77	Z	.194	.194	0	%100
27	M80	X	.353	.353	0	%100
28	M80	Z	.204	.204	0	%100
29	M84	X	.987	.987	0	%100
30	M84	Z	.57	.57	0	%100
31	M85	X	1.341	1.341	0	%100
32	M85	Z	.774	.774	0	%100
33	M91	X	1.412	1.412	0	%100
34	M91	Z	.815	.815	0	%100
35	M84B	X	.13	.13	0	%100
36	M84B	Z	.075	.075	0	%100
37	M123	X	.096	.096	0	%100
38	M123	Z	.055	.055	0	%100
39	M44	X	.585	.585	0	%100
40	M44	Z	.338	.338	0	%100
41	M45	X	.165	.165	0	%100
42	M45	Z	.095	.095	0	%100
43	M46A	X	.165	.165	0	%100
44	M46A	Z	.095	.095	0	%100
45	M47	X	.329	.329	0	%100
46	M47	Z	.19	.19	0	%100
47	M50A	X	.731	.731	0	%100
48	M50A	Z	.422	.422	0	%100
49	M51C	X	.183	.183	0	%100
50	M51C	Z	.106	.106	0	%100
51	M55	X	.987	.987	0	%100
52	M55	Z	.57	.57	0	%100
53	M56	X	1.341	1.341	0	%100
54	M56	Z	.774	.774	0	%100
55	M58A	X	1.412	1.412	0	%100
56	M58A	Z	.815	.815	0	%100
57	M60	X	.987	.987	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[ft,%]	End Location[ft,%]
58	M60	Z	.57	.57	0	%100
59	M61	X	.335	.335	0	%100
60	M61	Z	.194	.194	0	%100
61	M63	X	.353	.353	0	%100
62	M63	Z	.204	.204	0	%100
63	M70	X	.096	.096	0	%100
64	M70	Z	.055	.055	0	%100
65	M71	X	0	0	0	%100
66	M71	Z	0	0	0	%100
67	M72	X	.66	.66	0	%100
68	M72	Z	.381	.381	0	%100
69	M73	X	.66	.66	0	%100
70	M73	Z	.381	.381	0	%100
71	M74	X	1.317	1.317	0	%100
72	M74	Z	.76	.76	0	%100
73	M77A	X	.183	.183	0	%100
74	M77A	Z	.106	.106	0	%100
75	M78	X	.183	.183	0	%100
76	M78	Z	.106	.106	0	%100
77	M82	X	0	0	0	%100
78	M82	Z	0	0	0	%100
79	M83A	X	.335	.335	0	%100
80	M83A	Z	.194	.194	0	%100
81	M85A	X	.353	.353	0	%100
82	M85A	Z	.204	.204	0	%100
83	M87	X	0	0	0	%100
84	M87	Z	0	0	0	%100
85	M88A	X	.335	.335	0	%100
86	M88A	Z	.194	.194	0	%100
87	M90	X	.353	.353	0	%100
88	M90	Z	.204	.204	0	%100
89	M97	X	.382	.382	0	%100
90	M97	Z	.221	.221	0	%100
91	M98	X	.183	.183	0	%100
92	M98	Z	.105	.105	0	%100
93	MP3C	X	.521	.521	0	%100
94	MP3C	Z	.301	.301	0	%100
95	MP4C	X	.521	.521	0	%100
96	MP4C	Z	.301	.301	0	%100
97	MP2C	X	.631	.631	0	%100
98	MP2C	Z	.364	.364	0	%100
99	MP1C	X	.521	.521	0	%100
100	MP1C	Z	.301	.301	0	%100
101	M107	X	.13	.13	0	%100
102	M107	Z	.075	.075	0	%100
103	M114	X	.73	.73	0	%100
104	M114	Z	.422	.422	0	%100
105	MP3B	X	.521	.521	0	%100
106	MP3B	Z	.301	.301	0	%100
107	MP4B	X	.521	.521	0	%100
108	MP4B	Z	.301	.301	0	%100
109	MP2B	X	.631	.631	0	%100
110	MP2B	Z	.364	.364	0	%100
111	MP1B	X	.521	.521	0	%100
112	MP1B	Z	.301	.301	0	%100
113	M123A	X	.521	.521	0	%100
114	M123A	Z	.301	.301	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.316	.316	0	%100
2	M1	Z	.548	.548	0	%100
3	M4	X	.113	.113	0	%100
4	M4	Z	.195	.195	0	%100
5	M10	X	.286	.286	0	%100
6	M10	Z	.495	.495	0	%100
7	MP3A	X	.301	.301	0	%100
8	MP3A	Z	.521	.521	0	%100
9	MP4A	X	.301	.301	0	%100
10	MP4A	Z	.521	.521	0	%100
11	MP2A	X	.364	.364	0	%100
12	MP2A	Z	.631	.631	0	%100
13	MP1A	X	.301	.301	0	%100
14	MP1A	Z	.521	.521	0	%100
15	M43	X	.286	.286	0	%100
16	M43	Z	.495	.495	0	%100
17	M46	X	.57	.57	0	%100
18	M46	Z	.987	.987	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	.317	.317	0	%100
22	M52B	Z	.548	.548	0	%100
23	M76	X	.19	.19	0	%100
24	M76	Z	.329	.329	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	.19	.19	0	%100
30	M84	Z	.329	.329	0	%100
31	M85	X	.581	.581	0	%100
32	M85	Z	1.006	1.006	0	%100
33	M91	X	.612	.612	0	%100
34	M91	Z	1.059	1.059	0	%100
35	M84B	X	.226	.226	0	%100
36	M84B	Z	.391	.391	0	%100
37	M123	X	.166	.166	0	%100
38	M123	Z	.287	.287	0	%100
39	M44	X	.45	.45	0	%100
40	M44	Z	.78	.78	0	%100
41	M45	X	0	0	0	%100
42	M45	Z	0	0	0	%100
43	M46A	X	0	0	0	%100
44	M46A	Z	0	0	0	%100
45	M47	X	0	0	0	%100
46	M47	Z	0	0	0	%100
47	M50A	X	.317	.317	0	%100
48	M50A	Z	.548	.548	0	%100
49	M51C	X	.317	.317	0	%100
50	M51C	Z	.548	.548	0	%100
51	M55	X	.76	.76	0	%100
52	M55	Z	1.317	1.317	0	%100
53	M56	X	.581	.581	0	%100
54	M56	Z	1.006	1.006	0	%100
55	M58A	X	.612	.612	0	%100
56	M58A	Z	1.059	1.059	0	%100
57	M60	X	.76	.76	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M60	Z	1.317	1.317	0	%100
59	M61	X	.581	.581	0	%100
60	M61	Z	1.006	1.006	0	%100
61	M63	X	.612	.612	0	%100
62	M63	Z	1.059	1.059	0	%100
63	M70	X	0	0	0	%100
64	M70	Z	0	0	0	%100
65	M71	X	.113	.113	0	%100
66	M71	Z	.195	.195	0	%100
67	M72	X	.286	.286	0	%100
68	M72	Z	.495	.495	0	%100
69	M73	X	.286	.286	0	%100
70	M73	Z	.495	.495	0	%100
71	M74	X	.57	.57	0	%100
72	M74	Z	.987	.987	0	%100
73	M77A	X	.317	.317	0	%100
74	M77A	Z	.548	.548	0	%100
75	M78	X	0	0	0	%100
76	M78	Z	0	0	0	%100
77	M82	X	.19	.19	0	%100
78	M82	Z	.329	.329	0	%100
79	M83A	X	.581	.581	0	%100
80	M83A	Z	1.006	1.006	0	%100
81	M85A	X	.612	.612	0	%100
82	M85A	Z	1.059	1.059	0	%100
83	M87	X	.19	.19	0	%100
84	M87	Z	.329	.329	0	%100
85	M88A	X	0	0	0	%100
86	M88A	Z	0	0	0	%100
87	M90	X	0	0	0	%100
88	M90	Z	0	0	0	%100
89	M97	X	.166	.166	0	%100
90	M97	Z	.287	.287	0	%100
91	M98	X	0	0	0	%100
92	M98	Z	0	0	0	%100
93	MP3C	X	.301	.301	0	%100
94	MP3C	Z	.521	.521	0	%100
95	MP4C	X	.301	.301	0	%100
96	MP4C	Z	.521	.521	0	%100
97	MP2C	X	.364	.364	0	%100
98	MP2C	Z	.631	.631	0	%100
99	MP1C	X	.301	.301	0	%100
100	MP1C	Z	.521	.521	0	%100
101	M107	X	0	0	0	%100
102	M107	Z	0	0	0	%100
103	M114	X	.316	.316	0	%100
104	M114	Z	.548	.548	0	%100
105	MP3B	X	.301	.301	0	%100
106	MP3B	Z	.521	.521	0	%100
107	MP4B	X	.301	.301	0	%100
108	MP4B	Z	.521	.521	0	%100
109	MP2B	X	.364	.364	0	%100
110	MP2B	Z	.631	.631	0	%100
111	MP1B	X	.301	.301	0	%100
112	MP1B	Z	.521	.521	0	%100
113	M123A	X	.226	.226	0	%100
114	M123A	Z	.391	.391	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	.843	.843	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	.762	.762	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	.602	.602	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	.602	.602	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	.728	.728	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	.602	.602	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	.762	.762	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	1.52	1.52	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	.211	.211	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	.211	.211	0	%100
23	M76	X	0	0	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	.387	.387	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	.408	.408	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	.387	.387	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	.408	.408	0	%100
35	M84B	X	0	0	0	%100
36	M84B	Z	.602	.602	0	%100
37	M123	X	0	0	0	%100
38	M123	Z	.441	.441	0	%100
39	M44	X	0	0	0	%100
40	M44	Z	.676	.676	0	%100
41	M45	X	0	0	0	%100
42	M45	Z	.191	.191	0	%100
43	M46A	X	0	0	0	%100
44	M46A	Z	.191	.191	0	%100
45	M47	X	0	0	0	%100
46	M47	Z	.38	.38	0	%100
47	M50A	X	0	0	0	%100
48	M50A	Z	.211	.211	0	%100
49	M51C	X	0	0	0	%100
50	M51C	Z	.844	.844	0	%100
51	M55	X	0	0	0	%100
52	M55	Z	1.14	1.14	0	%100
53	M56	X	0	0	0	%100
54	M56	Z	.387	.387	0	%100
55	M58A	X	0	0	0	%100
56	M58A	Z	.408	.408	0	%100
57	M60	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[ft,%]	End Location[ft,%]
58	M60	Z	1.14	1.14	0	%100
59	M61	X	0	0	0	%100
60	M61	Z	1.548	1.548	0	%100
61	M63	X	0	0	0	%100
62	M63	Z	1.631	1.631	0	%100
63	M70	X	0	0	0	%100
64	M70	Z	.11	.11	0	%100
65	M71	X	0	0	0	%100
66	M71	Z	.676	.676	0	%100
67	M72	X	0	0	0	%100
68	M72	Z	.191	.191	0	%100
69	M73	X	0	0	0	%100
70	M73	Z	.191	.191	0	%100
71	M74	X	0	0	0	%100
72	M74	Z	.38	.38	0	%100
73	M77A	X	0	0	0	%100
74	M77A	Z	.844	.844	0	%100
75	M78	X	0	0	0	%100
76	M78	Z	.211	.211	0	%100
77	M82	X	0	0	0	%100
78	M82	Z	1.14	1.14	0	%100
79	M83A	X	0	0	0	%100
80	M83A	Z	1.548	1.548	0	%100
81	M85A	X	0	0	0	%100
82	M85A	Z	1.631	1.631	0	%100
83	M87	X	0	0	0	%100
84	M87	Z	1.14	1.14	0	%100
85	M88A	X	0	0	0	%100
86	M88A	Z	.387	.387	0	%100
87	M90	X	0	0	0	%100
88	M90	Z	.408	.408	0	%100
89	M97	X	0	0	0	%100
90	M97	Z	.11	.11	0	%100
91	M98	X	0	0	0	%100
92	M98	Z	.211	.211	0	%100
93	MP3C	X	0	0	0	%100
94	MP3C	Z	.602	.602	0	%100
95	MP4C	X	0	0	0	%100
96	MP4C	Z	.602	.602	0	%100
97	MP2C	X	0	0	0	%100
98	MP2C	Z	.728	.728	0	%100
99	MP1C	X	0	0	0	%100
100	MP1C	Z	.602	.602	0	%100
101	M107	X	0	0	0	%100
102	M107	Z	.15	.15	0	%100
103	M114	X	0	0	0	%100
104	M114	Z	.211	.211	0	%100
105	MP3B	X	0	0	0	%100
106	MP3B	Z	.602	.602	0	%100
107	MP4B	X	0	0	0	%100
108	MP4B	Z	.602	.602	0	%100
109	MP2B	X	0	0	0	%100
110	MP2B	Z	.728	.728	0	%100
111	MP1B	X	0	0	0	%100
112	MP1B	Z	.602	.602	0	%100
113	M123A	X	0	0	0	%100
114	M123A	Z	.15	.15	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.316	-.316	0	%100
2	M1	Z	.548	.548	0	%100
3	M4	X	-.113	-.113	0	%100
4	M4	Z	.195	.195	0	%100
5	M10	X	-.286	-.286	0	%100
6	M10	Z	.495	.495	0	%100
7	MP3A	X	-.301	-.301	0	%100
8	MP3A	Z	.521	.521	0	%100
9	MP4A	X	-.301	-.301	0	%100
10	MP4A	Z	.521	.521	0	%100
11	MP2A	X	-.364	-.364	0	%100
12	MP2A	Z	.631	.631	0	%100
13	MP1A	X	-.301	-.301	0	%100
14	MP1A	Z	.521	.521	0	%100
15	M43	X	-.286	-.286	0	%100
16	M43	Z	.495	.495	0	%100
17	M46	X	-.57	-.57	0	%100
18	M46	Z	.987	.987	0	%100
19	M51B	X	-.317	-.317	0	%100
20	M51B	Z	.548	.548	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-.19	-.19	0	%100
24	M76	Z	.329	.329	0	%100
25	M77	X	-.581	-.581	0	%100
26	M77	Z	1.006	1.006	0	%100
27	M80	X	-.612	-.612	0	%100
28	M80	Z	1.059	1.059	0	%100
29	M84	X	-.19	-.19	0	%100
30	M84	Z	.329	.329	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	0	0	0	%100
35	M84B	X	-.226	-.226	0	%100
36	M84B	Z	.391	.391	0	%100
37	M123	X	-.166	-.166	0	%100
38	M123	Z	.287	.287	0	%100
39	M44	X	-.113	-.113	0	%100
40	M44	Z	.195	.195	0	%100
41	M45	X	-.286	-.286	0	%100
42	M45	Z	.495	.495	0	%100
43	M46A	X	-.286	-.286	0	%100
44	M46A	Z	.495	.495	0	%100
45	M47	X	-.57	-.57	0	%100
46	M47	Z	.987	.987	0	%100
47	M50A	X	0	0	0	%100
48	M50A	Z	0	0	0	%100
49	M51C	X	-.317	-.317	0	%100
50	M51C	Z	.548	.548	0	%100
51	M55	X	-.19	-.19	0	%100
52	M55	Z	.329	.329	0	%100
53	M56	X	0	0	0	%100
54	M56	Z	0	0	0	%100
55	M58A	X	0	0	0	%100
56	M58A	Z	0	0	0	%100
57	M60	X	-.19	-.19	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[ft,%]	End Location[ft,%]
58	M60	Z	.329	.329	0	%100
59	M61	X	-.581	-.581	0	%100
60	M61	Z	1.006	1.006	0	%100
61	M63	X	-.612	-.612	0	%100
62	M63	Z	1.059	1.059	0	%100
63	M70	X	-.166	-.166	0	%100
64	M70	Z	.287	.287	0	%100
65	M71	X	-.45	-.45	0	%100
66	M71	Z	.78	.78	0	%100
67	M72	X	0	0	0	%100
68	M72	Z	0	0	0	%100
69	M73	X	0	0	0	%100
70	M73	Z	0	0	0	%100
71	M74	X	0	0	0	%100
72	M74	Z	0	0	0	%100
73	M77A	X	-.317	-.317	0	%100
74	M77A	Z	.548	.548	0	%100
75	M78	X	-.317	-.317	0	%100
76	M78	Z	.548	.548	0	%100
77	M82	X	-.76	-.76	0	%100
78	M82	Z	1.317	1.317	0	%100
79	M83A	X	-.581	-.581	0	%100
80	M83A	Z	1.006	1.006	0	%100
81	M85A	X	-.612	-.612	0	%100
82	M85A	Z	1.059	1.059	0	%100
83	M87	X	-.76	-.76	0	%100
84	M87	Z	1.317	1.317	0	%100
85	M88A	X	-.581	-.581	0	%100
86	M88A	Z	1.006	1.006	0	%100
87	M90	X	-.612	-.612	0	%100
88	M90	Z	1.059	1.059	0	%100
89	M97	X	0	0	0	%100
90	M97	Z	0	0	0	%100
91	M98	X	-.316	-.316	0	%100
92	M98	Z	.548	.548	0	%100
93	MP3C	X	-.301	-.301	0	%100
94	MP3C	Z	.521	.521	0	%100
95	MP4C	X	-.301	-.301	0	%100
96	MP4C	Z	.521	.521	0	%100
97	MP2C	X	-.364	-.364	0	%100
98	MP2C	Z	.631	.631	0	%100
99	MP1C	X	-.301	-.301	0	%100
100	MP1C	Z	.521	.521	0	%100
101	M107	X	-.226	-.226	0	%100
102	M107	Z	.391	.391	0	%100
103	M114	X	0	0	0	%100
104	M114	Z	0	0	0	%100
105	MP3B	X	-.301	-.301	0	%100
106	MP3B	Z	.521	.521	0	%100
107	MP4B	X	-.301	-.301	0	%100
108	MP4B	Z	.521	.521	0	%100
109	MP2B	X	-.364	-.364	0	%100
110	MP2B	Z	.631	.631	0	%100
111	MP1B	X	-.301	-.301	0	%100
112	MP1B	Z	.521	.521	0	%100
113	M123A	X	0	0	0	%100
114	M123A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.183	-.183	0	%100
2	M1	Z	.105	.105	0	%100
3	M4	X	-.585	-.585	0	%100
4	M4	Z	.338	.338	0	%100
5	M10	X	-.165	-.165	0	%100
6	M10	Z	.095	.095	0	%100
7	MP3A	X	-.521	-.521	0	%100
8	MP3A	Z	.301	.301	0	%100
9	MP4A	X	-.521	-.521	0	%100
10	MP4A	Z	.301	.301	0	%100
11	MP2A	X	-.631	-.631	0	%100
12	MP2A	Z	.364	.364	0	%100
13	MP1A	X	-.521	-.521	0	%100
14	MP1A	Z	.301	.301	0	%100
15	M43	X	-.165	-.165	0	%100
16	M43	Z	.095	.095	0	%100
17	M46	X	-.329	-.329	0	%100
18	M46	Z	.19	.19	0	%100
19	M51B	X	-.731	-.731	0	%100
20	M51B	Z	.422	.422	0	%100
21	M52B	X	-.183	-.183	0	%100
22	M52B	Z	.106	.106	0	%100
23	M76	X	-.987	-.987	0	%100
24	M76	Z	.57	.57	0	%100
25	M77	X	-1.341	-1.341	0	%100
26	M77	Z	.774	.774	0	%100
27	M80	X	-1.412	-1.412	0	%100
28	M80	Z	.815	.815	0	%100
29	M84	X	-.987	-.987	0	%100
30	M84	Z	.57	.57	0	%100
31	M85	X	-.335	-.335	0	%100
32	M85	Z	.194	.194	0	%100
33	M91	X	-.353	-.353	0	%100
34	M91	Z	.204	.204	0	%100
35	M84B	X	-.13	-.13	0	%100
36	M84B	Z	.075	.075	0	%100
37	M123	X	-.096	-.096	0	%100
38	M123	Z	.055	.055	0	%100
39	M44	X	0	0	0	%100
40	M44	Z	0	0	0	%100
41	M45	X	-.66	-.66	0	%100
42	M45	Z	.381	.381	0	%100
43	M46A	X	-.66	-.66	0	%100
44	M46A	Z	.381	.381	0	%100
45	M47	X	-1.317	-1.317	0	%100
46	M47	Z	.76	.76	0	%100
47	M50A	X	-.183	-.183	0	%100
48	M50A	Z	.106	.106	0	%100
49	M51C	X	-.183	-.183	0	%100
50	M51C	Z	.106	.106	0	%100
51	M55	X	0	0	0	%100
52	M55	Z	0	0	0	%100
53	M56	X	-.335	-.335	0	%100
54	M56	Z	.194	.194	0	%100
55	M58A	X	-.353	-.353	0	%100
56	M58A	Z	.204	.204	0	%100
57	M60	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M60	Z	0	0	0	%100
59	M61	X	-.335	-.335	0	%100
60	M61	Z	.194	.194	0	%100
61	M63	X	-.353	-.353	0	%100
62	M63	Z	.204	.204	0	%100
63	M70	X	-.382	-.382	0	%100
64	M70	Z	.221	.221	0	%100
65	M71	X	-.585	-.585	0	%100
66	M71	Z	.338	.338	0	%100
67	M72	X	-.165	-.165	0	%100
68	M72	Z	.095	.095	0	%100
69	M73	X	-.165	-.165	0	%100
70	M73	Z	.095	.095	0	%100
71	M74	X	-.329	-.329	0	%100
72	M74	Z	.19	.19	0	%100
73	M77A	X	-.183	-.183	0	%100
74	M77A	Z	.106	.106	0	%100
75	M78	X	-.731	-.731	0	%100
76	M78	Z	.422	.422	0	%100
77	M82	X	-.987	-.987	0	%100
78	M82	Z	.57	.57	0	%100
79	M83A	X	-.335	-.335	0	%100
80	M83A	Z	.194	.194	0	%100
81	M85A	X	-.353	-.353	0	%100
82	M85A	Z	.204	.204	0	%100
83	M87	X	-.987	-.987	0	%100
84	M87	Z	.57	.57	0	%100
85	M88A	X	-1.341	-1.341	0	%100
86	M88A	Z	.774	.774	0	%100
87	M90	X	-1.412	-1.412	0	%100
88	M90	Z	.815	.815	0	%100
89	M97	X	-.096	-.096	0	%100
90	M97	Z	.055	.055	0	%100
91	M98	X	-.73	-.73	0	%100
92	M98	Z	.422	.422	0	%100
93	MP3C	X	-.521	-.521	0	%100
94	MP3C	Z	.301	.301	0	%100
95	MP4C	X	-.521	-.521	0	%100
96	MP4C	Z	.301	.301	0	%100
97	MP2C	X	-.631	-.631	0	%100
98	MP2C	Z	.364	.364	0	%100
99	MP1C	X	-.521	-.521	0	%100
100	MP1C	Z	.301	.301	0	%100
101	M107	X	-.521	-.521	0	%100
102	M107	Z	.301	.301	0	%100
103	M114	X	-.183	-.183	0	%100
104	M114	Z	.105	.105	0	%100
105	MP3B	X	-.521	-.521	0	%100
106	MP3B	Z	.301	.301	0	%100
107	MP4B	X	-.521	-.521	0	%100
108	MP4B	Z	.301	.301	0	%100
109	MP2B	X	-.631	-.631	0	%100
110	MP2B	Z	.364	.364	0	%100
111	MP1B	X	-.521	-.521	0	%100
112	MP1B	Z	.301	.301	0	%100
113	M123A	X	-.13	-.13	0	%100
114	M123A	Z	.075	.075	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	-.901	-.901	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	-.602	-.602	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	-.602	-.602	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	-.728	-.728	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	-.602	-.602	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	-.633	-.633	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-.633	-.633	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-1.52	-1.52	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	-1.161	-1.161	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	-1.223	-1.223	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	-1.52	-1.52	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	-1.161	-1.161	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	-1.223	-1.223	0	%100
34	M91	Z	0	0	0	%100
35	M84B	X	0	0	0	%100
36	M84B	Z	0	0	0	%100
37	M123	X	0	0	0	%100
38	M123	Z	0	0	0	%100
39	M44	X	-.225	-.225	0	%100
40	M44	Z	0	0	0	%100
41	M45	X	-.572	-.572	0	%100
42	M45	Z	0	0	0	%100
43	M46A	X	-.572	-.572	0	%100
44	M46A	Z	0	0	0	%100
45	M47	X	-1.14	-1.14	0	%100
46	M47	Z	0	0	0	%100
47	M50A	X	-.633	-.633	0	%100
48	M50A	Z	0	0	0	%100
49	M51C	X	0	0	0	%100
50	M51C	Z	0	0	0	%100
51	M55	X	-.38	-.38	0	%100
52	M55	Z	0	0	0	%100
53	M56	X	-1.161	-1.161	0	%100
54	M56	Z	0	0	0	%100
55	M58A	X	-1.223	-1.223	0	%100
56	M58A	Z	0	0	0	%100
57	M60	X	-.38	-.38	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M60	Z	0	0	0	%100
59	M61	X	0	0	0	%100
60	M61	Z	0	0	0	%100
61	M63	X	0	0	0	%100
62	M63	Z	0	0	0	%100
63	M70	X	-.331	-.331	0	%100
64	M70	Z	0	0	0	%100
65	M71	X	-.225	-.225	0	%100
66	M71	Z	0	0	0	%100
67	M72	X	-.572	-.572	0	%100
68	M72	Z	0	0	0	%100
69	M73	X	-.572	-.572	0	%100
70	M73	Z	0	0	0	%100
71	M74	X	-1.14	-1.14	0	%100
72	M74	Z	0	0	0	%100
73	M77A	X	0	0	0	%100
74	M77A	Z	0	0	0	%100
75	M78	X	-.633	-.633	0	%100
76	M78	Z	0	0	0	%100
77	M82	X	-.38	-.38	0	%100
78	M82	Z	0	0	0	%100
79	M83A	X	0	0	0	%100
80	M83A	Z	0	0	0	%100
81	M85A	X	0	0	0	%100
82	M85A	Z	0	0	0	%100
83	M87	X	-.38	-.38	0	%100
84	M87	Z	0	0	0	%100
85	M88A	X	-1.161	-1.161	0	%100
86	M88A	Z	0	0	0	%100
87	M90	X	-1.223	-1.223	0	%100
88	M90	Z	0	0	0	%100
89	M97	X	-.331	-.331	0	%100
90	M97	Z	0	0	0	%100
91	M98	X	-.632	-.632	0	%100
92	M98	Z	0	0	0	%100
93	MP3C	X	-.602	-.602	0	%100
94	MP3C	Z	0	0	0	%100
95	MP4C	X	-.602	-.602	0	%100
96	MP4C	Z	0	0	0	%100
97	MP2C	X	-.728	-.728	0	%100
98	MP2C	Z	0	0	0	%100
99	MP1C	X	-.602	-.602	0	%100
100	MP1C	Z	0	0	0	%100
101	M107	X	-.451	-.451	0	%100
102	M107	Z	0	0	0	%100
103	M114	X	-.632	-.632	0	%100
104	M114	Z	0	0	0	%100
105	MP3B	X	-.602	-.602	0	%100
106	MP3B	Z	0	0	0	%100
107	MP4B	X	-.602	-.602	0	%100
108	MP4B	Z	0	0	0	%100
109	MP2B	X	-.728	-.728	0	%100
110	MP2B	Z	0	0	0	%100
111	MP1B	X	-.602	-.602	0	%100
112	MP1B	Z	0	0	0	%100
113	M123A	X	-.451	-.451	0	%100
114	M123A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.183	-.183	0	%100
2	M1	Z	-.105	-.105	0	%100
3	M4	X	-.585	-.585	0	%100
4	M4	Z	-.338	-.338	0	%100
5	M10	X	-.165	-.165	0	%100
6	M10	Z	-.095	-.095	0	%100
7	MP3A	X	-.521	-.521	0	%100
8	MP3A	Z	-.301	-.301	0	%100
9	MP4A	X	-.521	-.521	0	%100
10	MP4A	Z	-.301	-.301	0	%100
11	MP2A	X	-.631	-.631	0	%100
12	MP2A	Z	-.364	-.364	0	%100
13	MP1A	X	-.521	-.521	0	%100
14	MP1A	Z	-.301	-.301	0	%100
15	M43	X	-.165	-.165	0	%100
16	M43	Z	-.095	-.095	0	%100
17	M46	X	-.329	-.329	0	%100
18	M46	Z	-.19	-.19	0	%100
19	M51B	X	-.183	-.183	0	%100
20	M51B	Z	-.106	-.106	0	%100
21	M52B	X	-.731	-.731	0	%100
22	M52B	Z	-.422	-.422	0	%100
23	M76	X	-.987	-.987	0	%100
24	M76	Z	-.57	-.57	0	%100
25	M77	X	-.335	-.335	0	%100
26	M77	Z	-.194	-.194	0	%100
27	M80	X	-.353	-.353	0	%100
28	M80	Z	-.204	-.204	0	%100
29	M84	X	-.987	-.987	0	%100
30	M84	Z	-.57	-.57	0	%100
31	M85	X	-1.341	-1.341	0	%100
32	M85	Z	-.774	-.774	0	%100
33	M91	X	-1.412	-1.412	0	%100
34	M91	Z	-.815	-.815	0	%100
35	M84B	X	-.13	-.13	0	%100
36	M84B	Z	-.075	-.075	0	%100
37	M123	X	-.096	-.096	0	%100
38	M123	Z	-.055	-.055	0	%100
39	M44	X	-.585	-.585	0	%100
40	M44	Z	-.338	-.338	0	%100
41	M45	X	-.165	-.165	0	%100
42	M45	Z	-.095	-.095	0	%100
43	M46A	X	-.165	-.165	0	%100
44	M46A	Z	-.095	-.095	0	%100
45	M47	X	-.329	-.329	0	%100
46	M47	Z	-.19	-.19	0	%100
47	M50A	X	-.731	-.731	0	%100
48	M50A	Z	-.422	-.422	0	%100
49	M51C	X	-.183	-.183	0	%100
50	M51C	Z	-.106	-.106	0	%100
51	M55	X	-.987	-.987	0	%100
52	M55	Z	-.57	-.57	0	%100
53	M56	X	-1.341	-1.341	0	%100
54	M56	Z	-.774	-.774	0	%100
55	M58A	X	-1.412	-1.412	0	%100
56	M58A	Z	-.815	-.815	0	%100
57	M60	X	-.987	-.987	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M60	Z	-.57	-.57	0	%100
59	M61	X	-.335	-.335	0	%100
60	M61	Z	-.194	-.194	0	%100
61	M63	X	-.353	-.353	0	%100
62	M63	Z	-.204	-.204	0	%100
63	M70	X	-.096	-.096	0	%100
64	M70	Z	-.055	-.055	0	%100
65	M71	X	0	0	0	%100
66	M71	Z	0	0	0	%100
67	M72	X	-.66	-.66	0	%100
68	M72	Z	-.381	-.381	0	%100
69	M73	X	-.66	-.66	0	%100
70	M73	Z	-.381	-.381	0	%100
71	M74	X	-1.317	-1.317	0	%100
72	M74	Z	-.76	-.76	0	%100
73	M77A	X	-.183	-.183	0	%100
74	M77A	Z	-.106	-.106	0	%100
75	M78	X	-.183	-.183	0	%100
76	M78	Z	-.106	-.106	0	%100
77	M82	X	0	0	0	%100
78	M82	Z	0	0	0	%100
79	M83A	X	-.335	-.335	0	%100
80	M83A	Z	-.194	-.194	0	%100
81	M85A	X	-.353	-.353	0	%100
82	M85A	Z	-.204	-.204	0	%100
83	M87	X	0	0	0	%100
84	M87	Z	0	0	0	%100
85	M88A	X	-.335	-.335	0	%100
86	M88A	Z	-.194	-.194	0	%100
87	M90	X	-.353	-.353	0	%100
88	M90	Z	-.204	-.204	0	%100
89	M97	X	-.382	-.382	0	%100
90	M97	Z	-.221	-.221	0	%100
91	M98	X	-.183	-.183	0	%100
92	M98	Z	-.105	-.105	0	%100
93	MP3C	X	-.521	-.521	0	%100
94	MP3C	Z	-.301	-.301	0	%100
95	MP4C	X	-.521	-.521	0	%100
96	MP4C	Z	-.301	-.301	0	%100
97	MP2C	X	-.631	-.631	0	%100
98	MP2C	Z	-.364	-.364	0	%100
99	MP1C	X	-.521	-.521	0	%100
100	MP1C	Z	-.301	-.301	0	%100
101	M107	X	-.13	-.13	0	%100
102	M107	Z	-.075	-.075	0	%100
103	M114	X	-.73	-.73	0	%100
104	M114	Z	-.422	-.422	0	%100
105	MP3B	X	-.521	-.521	0	%100
106	MP3B	Z	-.301	-.301	0	%100
107	MP4B	X	-.521	-.521	0	%100
108	MP4B	Z	-.301	-.301	0	%100
109	MP2B	X	-.631	-.631	0	%100
110	MP2B	Z	-.364	-.364	0	%100
111	MP1B	X	-.521	-.521	0	%100
112	MP1B	Z	-.301	-.301	0	%100
113	M123A	X	-.521	-.521	0	%100
114	M123A	Z	-.301	-.301	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.316	-.316	0	%100
2	M1	Z	-.548	-.548	0	%100
3	M4	X	-.113	-.113	0	%100
4	M4	Z	-.195	-.195	0	%100
5	M10	X	-.286	-.286	0	%100
6	M10	Z	-.495	-.495	0	%100
7	MP3A	X	-.301	-.301	0	%100
8	MP3A	Z	-.521	-.521	0	%100
9	MP4A	X	-.301	-.301	0	%100
10	MP4A	Z	-.521	-.521	0	%100
11	MP2A	X	-.364	-.364	0	%100
12	MP2A	Z	-.631	-.631	0	%100
13	MP1A	X	-.301	-.301	0	%100
14	MP1A	Z	-.521	-.521	0	%100
15	M43	X	-.286	-.286	0	%100
16	M43	Z	-.495	-.495	0	%100
17	M46	X	-.57	-.57	0	%100
18	M46	Z	-.987	-.987	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-.317	-.317	0	%100
22	M52B	Z	-.548	-.548	0	%100
23	M76	X	-.19	-.19	0	%100
24	M76	Z	-.329	-.329	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	-.19	-.19	0	%100
30	M84	Z	-.329	-.329	0	%100
31	M85	X	-.581	-.581	0	%100
32	M85	Z	-1.006	-1.006	0	%100
33	M91	X	-.612	-.612	0	%100
34	M91	Z	-1.059	-1.059	0	%100
35	M84B	X	-.226	-.226	0	%100
36	M84B	Z	-.391	-.391	0	%100
37	M123	X	-.166	-.166	0	%100
38	M123	Z	-.287	-.287	0	%100
39	M44	X	-.45	-.45	0	%100
40	M44	Z	-.78	-.78	0	%100
41	M45	X	0	0	0	%100
42	M45	Z	0	0	0	%100
43	M46A	X	0	0	0	%100
44	M46A	Z	0	0	0	%100
45	M47	X	0	0	0	%100
46	M47	Z	0	0	0	%100
47	M50A	X	-.317	-.317	0	%100
48	M50A	Z	-.548	-.548	0	%100
49	M51C	X	-.317	-.317	0	%100
50	M51C	Z	-.548	-.548	0	%100
51	M55	X	-.76	-.76	0	%100
52	M55	Z	-1.317	-1.317	0	%100
53	M56	X	-.581	-.581	0	%100
54	M56	Z	-1.006	-1.006	0	%100
55	M58A	X	-.612	-.612	0	%100
56	M58A	Z	-1.059	-1.059	0	%100
57	M60	X	-.76	-.76	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[ft,%]	End Location[ft,%]
58	M60	Z	-1.317	-1.317	0	%100
59	M61	X	-.581	-.581	0	%100
60	M61	Z	-1.006	-1.006	0	%100
61	M63	X	-.612	-.612	0	%100
62	M63	Z	-1.059	-1.059	0	%100
63	M70	X	0	0	0	%100
64	M70	Z	0	0	0	%100
65	M71	X	-.113	-.113	0	%100
66	M71	Z	-.195	-.195	0	%100
67	M72	X	-.286	-.286	0	%100
68	M72	Z	-.495	-.495	0	%100
69	M73	X	-.286	-.286	0	%100
70	M73	Z	-.495	-.495	0	%100
71	M74	X	-.57	-.57	0	%100
72	M74	Z	-.987	-.987	0	%100
73	M77A	X	-.317	-.317	0	%100
74	M77A	Z	-.548	-.548	0	%100
75	M78	X	0	0	0	%100
76	M78	Z	0	0	0	%100
77	M82	X	-.19	-.19	0	%100
78	M82	Z	-.329	-.329	0	%100
79	M83A	X	-.581	-.581	0	%100
80	M83A	Z	-1.006	-1.006	0	%100
81	M85A	X	-.612	-.612	0	%100
82	M85A	Z	-1.059	-1.059	0	%100
83	M87	X	-.19	-.19	0	%100
84	M87	Z	-.329	-.329	0	%100
85	M88A	X	0	0	0	%100
86	M88A	Z	0	0	0	%100
87	M90	X	0	0	0	%100
88	M90	Z	0	0	0	%100
89	M97	X	-.166	-.166	0	%100
90	M97	Z	-.287	-.287	0	%100
91	M98	X	0	0	0	%100
92	M98	Z	0	0	0	%100
93	MP3C	X	-.301	-.301	0	%100
94	MP3C	Z	-.521	-.521	0	%100
95	MP4C	X	-.301	-.301	0	%100
96	MP4C	Z	-.521	-.521	0	%100
97	MP2C	X	-.364	-.364	0	%100
98	MP2C	Z	-.631	-.631	0	%100
99	MP1C	X	-.301	-.301	0	%100
100	MP1C	Z	-.521	-.521	0	%100
101	M107	X	0	0	0	%100
102	M107	Z	0	0	0	%100
103	M114	X	-.316	-.316	0	%100
104	M114	Z	-.548	-.548	0	%100
105	MP3B	X	-.301	-.301	0	%100
106	MP3B	Z	-.521	-.521	0	%100
107	MP4B	X	-.301	-.301	0	%100
108	MP4B	Z	-.521	-.521	0	%100
109	MP2B	X	-.364	-.364	0	%100
110	MP2B	Z	-.631	-.631	0	%100
111	MP1B	X	-.301	-.301	0	%100
112	MP1B	Z	-.521	-.521	0	%100
113	M123A	X	-.226	-.226	0	%100
114	M123A	Z	-.391	-.391	0	%100

Member Distributed Loads (BLC 87 : BLC 39 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M50A	Y	-1.807	-4.258	0	.832
2	M50A	Y	-4.258	-6.771	.832	1.665
3	M50A	Y	-6.771	-7.939	1.665	2.497
4	M50A	Y	-7.939	-6.325	2.497	3.329
5	M50A	Y	-6.325	-3.336	3.329	4.162
6	M51C	Y	-3.33	-6.293	0	.832
7	M51C	Y	-6.293	-7.874	.832	1.665
8	M51C	Y	-7.874	-6.634	1.665	2.497
9	M51C	Y	-6.634	-4.064	2.497	3.329
10	M51C	Y	-4.064	-1.601	3.329	4.162
11	M51B	Y	-1.807	-4.258	0	.832
12	M51B	Y	-4.258	-6.771	.832	1.665
13	M51B	Y	-6.771	-7.939	1.665	2.497
14	M51B	Y	-7.939	-6.325	2.497	3.329
15	M51B	Y	-6.325	-3.336	3.329	4.162
16	M52B	Y	-3.33	-6.293	0	.832
17	M52B	Y	-6.293	-7.874	.832	1.665
18	M52B	Y	-7.874	-6.634	1.665	2.497
19	M52B	Y	-6.634	-4.064	2.497	3.329
20	M52B	Y	-4.064	-1.601	3.329	4.162
21	M77A	Y	-1.6	-4.065	0	.832
22	M77A	Y	-4.065	-6.634	.832	1.665
23	M77A	Y	-6.634	-7.872	1.665	2.497
24	M77A	Y	-7.872	-6.293	2.497	3.329
25	M77A	Y	-6.293	-3.33	3.329	4.162
26	M78	Y	-3.329	-6.319	0	.832
27	M78	Y	-6.319	-7.943	.832	1.665
28	M78	Y	-7.943	-6.777	1.665	2.497
29	M78	Y	-6.777	-4.257	2.497	3.329
30	M78	Y	-4.257	-1.81	3.329	4.162

Member Distributed Loads (BLC 88 : BLC 40 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M50A	Y	-3.976	-9.367	0	.832
2	M50A	Y	-9.367	-14.896	.832	1.665
3	M50A	Y	-14.896	-17.465	1.665	2.497
4	M50A	Y	-17.465	-13.915	2.497	3.329
5	M50A	Y	-13.915	-7.34	3.329	4.162
6	M51C	Y	-7.325	-13.844	0	.832
7	M51C	Y	-13.844	-17.322	.832	1.665
8	M51C	Y	-17.322	-14.596	1.665	2.497
9	M51C	Y	-14.596	-8.941	2.497	3.329
10	M51C	Y	-8.941	-3.523	3.329	4.162
11	M51B	Y	-3.976	-9.367	0	.832
12	M51B	Y	-9.367	-14.896	.832	1.665
13	M51B	Y	-14.896	-17.465	1.665	2.497
14	M51B	Y	-17.465	-13.915	2.497	3.329
15	M51B	Y	-13.915	-7.34	3.329	4.162
16	M52B	Y	-7.325	-13.844	0	.832
17	M52B	Y	-13.844	-17.322	.832	1.665
18	M52B	Y	-17.322	-14.596	1.665	2.497
19	M52B	Y	-14.596	-8.941	2.497	3.329
20	M52B	Y	-8.941	-3.523	3.329	4.162
21	M77A	Y	-3.519	-8.942	0	.832
22	M77A	Y	-8.942	-14.595	.832	1.665
23	M77A	Y	-14.595	-17.319	1.665	2.497

Member Distributed Loads (BLC 88 : BLC 40 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
24	M77A	Y	-17.319	-13.844	2.497	3.329
25	M77A	Y	-13.844	-7.326	3.329	4.162
26	M78	Y	-7.324	-13.902	0	.832
27	M78	Y	-13.902	-17.475	.832	1.665
28	M78	Y	-17.475	-14.909	1.665	2.497
29	M78	Y	-14.909	-9.366	2.497	3.329
30	M78	Y	-9.366	-3.983	3.329	4.162

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N90	N114	N112	N89	Y	Two Way	-.005
2	N7	N87B	N87C	N6	Y	Two Way	-.005
3	N127	N151	N149	N126	Y	Two Way	-.005

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N90	N114	N112	N89	Y	Two Way	-.011
2	N7	N87B	N87C	N6	Y	Two Way	-.011
3	N127	N151	N149	N126	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	1342.353	10	2134.612	19	2600.461	1	4.561	19	2.088	4	.333	22
2		min	-1340.07	4	694.639	67	-2722.467	7	.977	1	-2.082	10	.038	5
3	N87	max	2278.121	10	2155.793	15	1488.599	1	-.38	8	2.155	12	-1.039	9
4		min	-2386.477	4	696.821	71	-1423.355	7	-2.045	14	-2.168	6	-4.162	15
5	N124	max	2092.381	11	2187.372	23	1892.348	1	-.709	5	2.101	8	3.881	23
6		min	-1990.023	5	703.993	75	-1835.556	7	-2.765	35	-2.094	2	.853	5
7	Totals:	max	5630.252	10	6387.176	13	5981.409	1						
8		min	-5630.249	4	2117.837	72	-5981.378	7						

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear C...	Lo...	Dir	LC	phi*Pn...	phi*...	phi*...	phi*...	...	Eqn
1	M1	PIPE_3.0	.165	9.896	6	.088	11...		1	28250....	65205	5.749	5.749	...	H1-...
2	M4	HSS4X4X4	.303	0	16	.080	0	y	21	124657...	1395...	16.181	16.181	...	H1-...
3	M10	HSS4X4X4	.147	2.375	14	.057	2....	y	21	136263...	1395...	16.181	16.181	...	H1-...
4	MP3A	PIPE_2.0	.215	3.5	1	.065	3.5		3	17855....	32130	1.872	1.872	...	H1-...
5	MP4A	PIPE_2.0	.380	3.5	2	.110	2....		3	17855....	32130	1.872	1.872	...	H1-...
6	MP2A	PIPE_2.5	.369	3.5	1	.125	3.5		11	33961....	50715	3.596	3.596	...	H1-...
7	MP1A	PIPE_2.0	.201	3.5	1	.042	3.5		1	17855....	32130	1.872	1.872	...	H1-...
8	M43	HSS4X4X4	.144	0	24	.041	0	y	18	136263...	1395...	16.181	16.181	...	H1-...
9	M46	PL1/2x6	.191	.516	6	.078	.516	y	16	66009....	97200	1.012	12.15	...	H1-...
10	M51B	L2x2x3	.225	4.162	3	.010	4....	y	16	9823.1...	2339...	.558	1.068	...	H2-1
11	M52B	L2x2x3	.186	0	12	.012	0	y	21	9823.1...	2339...	.558	1.11	...	H2-1
12	M76	PL3/8x6	.127	.219	8	.127	0	y	8	70647....	72900	.57	9.113	...	H1-...
13	M77	PL3/8x6	.366	.167	8	.299	0	y	22	71583....	72900	.57	9.113	...	H1-...
14	M80	PL1/2x6	.063	.112	4	.065	0	y	5	96757....	97200	1.012	12.15	...	H1-...
15	M84	PL3/8x6	.264	0	6	.284	0	y	18	70647....	72900	.57	9.113	...	H1-...
16	M85	PL3/8x6	.328	.167	6	.276	0	y	17	71583....	72900	.57	9.113	...	H1-...
17	M91	PL1/2x6	.052	0	12	.050	.112	y	3	96757....	97200	1.012	12.15	...	H1-...
18	M84B	PIPE_2.0	.173	6.641	13	.087	2....		12	6295.4...	32130	1.872	1.872	...	H1-...
19	M123	PIPE_2.0	.008	0	1	.132	0		9	30477....	32130	1.872	1.872	...	H1-...

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear C...	Lo...	Dir	LC	phi*Pn...	phi*...	phi*...	phi*...	...	Eqn
20	M44	HSS4X4X4	.309	0	18	.080	0	y	17	124657...	1395..	16.181	16.181	...	H1-...
21	M45	HSS4X4X4	.149	2.375	22	.057	2....	y	17	136263...	1395..	16.181	16.181	...	H1-...
22	M46A	HSS4X4X4	.145	0	20	.042	0	y	13	136263...	1395..	16.181	16.181	...	H1-...
23	M47	PL1/2x6	.181	.516	2	.076	.516	y	22	66009....	97200	1.012	12.15	...	H1-...
24	M50A	L2x2x3	.221	4.162	11	.010	4....	y	23	9823.1...	2339..	.558	1.068	...	H2-1
25	M51C	L2x2x3	.181	0	7	.012	0	y	17	9823.1...	2339..	.558	1.069	...	H2-1
26	M55	PL3/8x6	.153	0	12	.124	0	y	4	70647....	72900	.57	9.113	...	H1-...
27	M56	PL3/8x6	.340	.167	4	.301	0	y	18	71583....	72900	.57	9.113	...	H1-...
28	M58A	PL1/2x6	.063	.112	6	.071	0	y	1	96757....	97200	1.012	12.15	...	H1-...
29	M60	PL3/8x6	.249	0	2	.291	0	y	14	70647....	72900	.57	9.113	...	H1-...
30	M61	PL3/8x6	.316	.167	2	.281	0	y	13	71583....	72900	.57	9.113	...	H1-...
31	M63	PL1/2x6	.051	0	8	.052	.112	y	11	96757....	97200	1.012	12.15	...	H1-...
32	M70	PIPE_2.0	.006	1.049	3	.143	0		12	30477....	32130	1.872	1.872	...	H1-...
33	M71	HSS4X4X4	.310	0	20	.102	0	y	25	124657...	1395..	16.181	16.181	...	H1-...
34	M72	HSS4X4X4	.152	2.375	18	.059	2....	y	13	136263...	1395..	16.181	16.181	...	H1-...
35	M73	HSS4X4X4	.145	0	16	.043	0	y	21	136263...	1395..	16.181	16.181	...	H1-...
36	M74	PL1/2x6	.179	.516	10	.084	.516	y	31	66009....	97200	1.012	12.15	...	H1-...
37	M77A	L2x2x3	.227	4.162	7	.010	4....	y	19	9823.1...	2339..	.558	1.069	...	H2-1
38	M78	L2x2x3	.178	0	4	.012	4....	y	22	9823.1...	2339..	.558	1.105	...	H2-1
39	M82	PL3/8x6	.122	.219	6	.144	0	y	48	70647....	72900	.57	9.113	...	H1-...
40	M83A	PL3/8x6	.362	.167	12	.311	0	y	14	71583....	72900	.57	9.113	...	H1-...
41	M85A	PL1/2x6	.061	.112	2	.102	0	y	33	96757....	97200	1.012	12.15	...	H1-...
42	M87	PL3/8x6	.245	0	10	.276	0	y	22	70647....	72900	.57	9.113	...	H1-...
43	M88A	PL3/8x6	.311	.167	10	.283	0	y	20	71583....	72900	.57	9.113	...	H1-...
44	M90	PL1/2x6	.050	0	4	.055	.112	y	31	96757....	97200	1.012	12.15	...	H1-...
45	M97	PIPE_2.0	.006	1.049	11	.173	0		2	30477....	32130	1.872	1.872	...	H1-...
46	M98	PIPE_3.0	.163	9.896	2	.091	8....		12	28250....	65205	5.749	5.749	...	H1-...
47	MP3C	PIPE_2.0	.189	3.5	9	.079	3.5		12	17855....	32130	1.872	1.872	...	H1-...
48	MP4C	PIPE_2.0	.379	3.5	10	.120	2....		11	17855....	32130	1.872	1.872	...	H1-...
49	MP2C	PIPE_2.5	.360	3.5	3	.125	3.5		7	33961....	50715	3.596	3.596	...	H1-...
50	MP1C	PIPE_2.0	.177	3.5	3	.038	3.5		9	17855....	32130	1.872	1.872	...	H1-...
51	M107	PIPE_2.0	.148	10.677	1	.084	11...		2	6295.4...	32130	1.872	1.872	...	H1-...
52	M114	PIPE_3.0	.167	9.896	5	.080	8....		14	28250....	65205	5.749	5.749	...	H1-...
53	MP3B	PIPE_2.0	.184	3.5	5	.076	.292		2	17855....	32130	1.872	1.872	...	H1-...
54	MP4B	PIPE_2.0	.364	3.5	12	.101	.292		1	17855....	32130	1.872	1.872	...	H1-...
55	MP2B	PIPE_2.5	.352	3.5	11	.127	3.5		3	33961....	50715	3.596	3.596	...	H1-...
56	MP1B	PIPE_2.0	.185	3.5	5	.039	1....		4	17855....	32130	1.872	1.872	...	H1-...
57	M123A	PIPE_2.0	.162	6.641	14	.092	6....		1	6295.4...	32130	1.872	1.872	...	H1-...

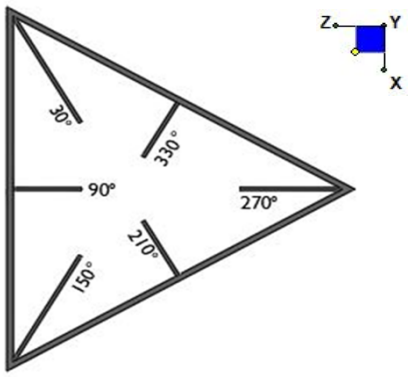
Client:	Verizon Wireless	Date:	11/5/2021
Site Name:	MADISON 4 CT		
Project No.	21777806A		
Title:	Antenna Mount Analysis	Page:	1

Version 3.1

I. Mount-to-Tower Connection Check

RISA Model Data

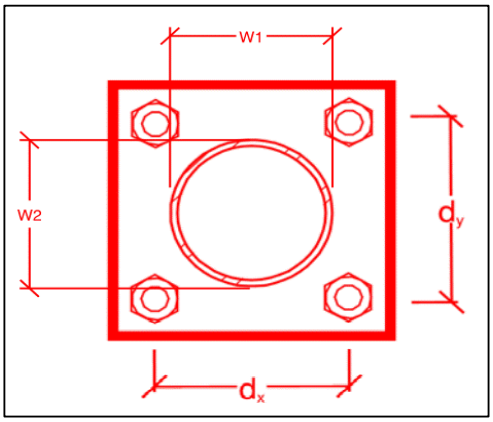
Nodes *(labeled per RISA)*	Orientation *(per graphic of typical platform)*
n3	270
n124	150
n87	30



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)* :	7
d_y (in) *(Delta Y of typ. bolt config. sketch)* :	7
Bolt Type:	A325N
Bolt Diameter (in):	0.625
Required Tensile Strength (kips):	16.7
Required Shear Strength (kips):	4.4
Tensile Strength / bolt (kips):	20.7
Shear Strength / bolt (kips):	12.4
Tensile Capacity Overall:	**20.2%***
Shear Capacity Overall:	**8.8%**



**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):	10
Plate Height (in):	10
W1 (in):	4
W2 (in):	4
Fy (ksi, plate):	36
t_{Plate} (in):	0.625
Weld Size (1/16 in):	6
Phi*Rn (kip/in):	8.35
Required Weld Strength (kip/in):	2.69
Plate Bending Capacity:	**41.1%**
Weld Capacity:	**32.2%**

Max Plate Bending Strengths

Mu_{xx} *(kip-in)* :	11.8
Phi*Mn_{xx} *(kip-in)* :	31.6
Mu_{yy} *(kip-in)* :	1.2
Phi*Mn_{yy} *(kip-in)* :	31.6

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Passing Mount Analysis

Passing Mount Analysis requires a PMI due to a modification in loading.
Electronic pdf version of this can be downloaded at https://pmi.vzwsmart.com.
For additional questions and support, please reach out to pmisupport@colliersengineering.com

---

Purpose – to provide SMART Tool structural vendor the proper documentation in order to complete the required Mount Desktop review of the Post Modification Inspection Report.

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

Base Requirements:

- If installation will cause damage to the structure, the climbing facility, or safety climb if present or any installed system, SMART Tool vendor to be notified prior to install. Any special photos outside of the standard requirements will be indicated on the drawings.
- Provide "as built mount drawings" showing contractor's name, contact information, preparer's signature, and date. Any deviations from the drawings (Proposed modification) shall be shown. NOTE: If loading is different than what is conveyed in the passing mount analysis (MA) contact the SMART Tool vendor immediately.
- Each photo should be time and date stamped
- Photos should be high resolution.
- 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. If there is conflict, contact the SMART Tool engineer for recommendations.
- The PMI can be accessed at the following portal: ***https://pmi.vzwsmart.com***

Photo Requirements:

- *Photos taken at ground level*
  - Photo of Gate Signs showing the tower owner, site name, and number.
  - Overall tower structure after installation.
  - Photos of the mount after installation; if the mounts are at different rad elevations, pictures must be provided for all elevations that equipment was installed.
- *Photos taken at Mount Elevation*
  - Photos showing the safety climb wire rope above and below the mount prior to installation.
  - Photos showing the climbing facility and safety climb if present.

- Photos showing each individual sector after installation. Each entire sector shall be in one photo to show the interconnection of members.
  - These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.
- Photos that show the model number of each antenna and piece of equipment installed per sector.

Antenna & equipment placement and Geometry Confirmation:

- The contractor shall certify that the antenna & equipment placement and geometry is in accordance with the sketch and table as included in the mount analysis and noted below.

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

Issue:

Contractor shall replace existing position 2 mount pipe with new 84" long P2 1/2 STD pipe. Install 25" from position 1 pipe. Match existing position 1 pipe location on mount. Attach using VZSMART MKS1 crossover plates to existing support rail and attach to existing bottom face horizontal with Site Pro 1 SP219-H Crossover plate (or EOR approved equivalent). Refer to placement diagrams. Contractor shall vertically shift retained antenna on pipe to match antenna centerline specified by RFDS, 107 ft. Refer to placement diagrams. Contractor shall replace bottom overtightened and bent crossover plates with Site Pro 1 P/N: SP219 crossover plates (or EOR approved equivalent).

Response:

Contractor certifies that the climbing facility / safety climb was not damaged or obstructed prior to starting work:

☐ Yes ☐ No

Contractor certifies no new damage/obstructions created during the current installation:

☐ Yes ☐ No

Contractor to certify the condition of the safety climb and verify no obstructions when leaving the site:

☐ Safety climb in good condition with no obstructions ☐ Safety Climb Damaged
☐ Safety Climb Obstructed

Comments:

☐ All hardware has been properly installed, and the existing hardware was inspected.

☐ The material utilized was as specified on the SMART Tool engineering vendor Mount Modification Drawings and included in the material certification folder is a packing list or invoice for these materials.

OR

☐ The material utilized was approved by a SMART Tool as an "equivalent" and this approval is included as part of the contractor submission.

Antenna & equipment placement and Geometry Confirmation:

☐ The contractor certifies that the photos support and the equipment on the mount is as depicted on the sketch and table included in this form and with the mount analysis provided.

OR

☐ The contractor notes that the equipment on the mount is not in accordance with the sketch and has noted the differences below and provided photo documentation of any alterations.

Special Instruction Confirmation:

☐ The contractor has read and acknowledges the above special instructions.

Certifying Individual:

Company:	
Employee Name:	
Contact Phone:	
Email:	
Date:	

Structure: 468014-VZW - MADISON 4 CT

Sector: **A**

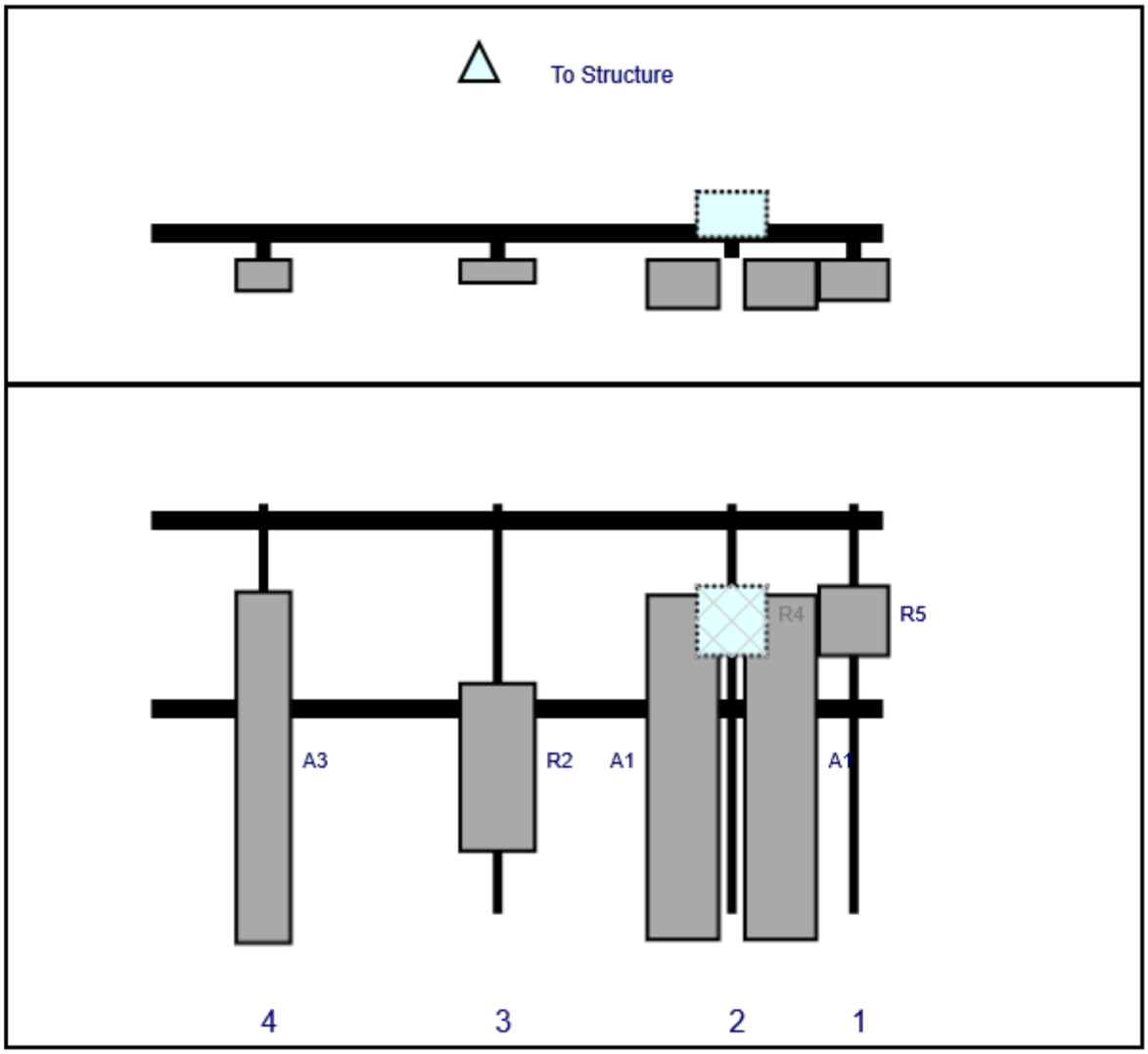
Structure Type: Monopole

Mount Elev: 108.00

11/5/2021

Plan View

Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R5	RF4440d-13A	15	15	144	1	a	Front	24	0	Added	
A1	MX06FRO660-03	71.3	15.4	119	2	a	Front	54	10	Added	
A1	MX06FRO660-03	71.3	15.4	119	2	b	Front	54	-10	Added	
R4	RF4439d-25A	15	15	119	2	a	Behind	24	0	Added	
R2	MT6407-77A	35.1	16.1	71	3	a	Front	54	0	Added	
A3	SBNHH-1D65B	72.6	11.9	23	4	a	Front	54	0	Retained	10/28/2021

Sector: **B**

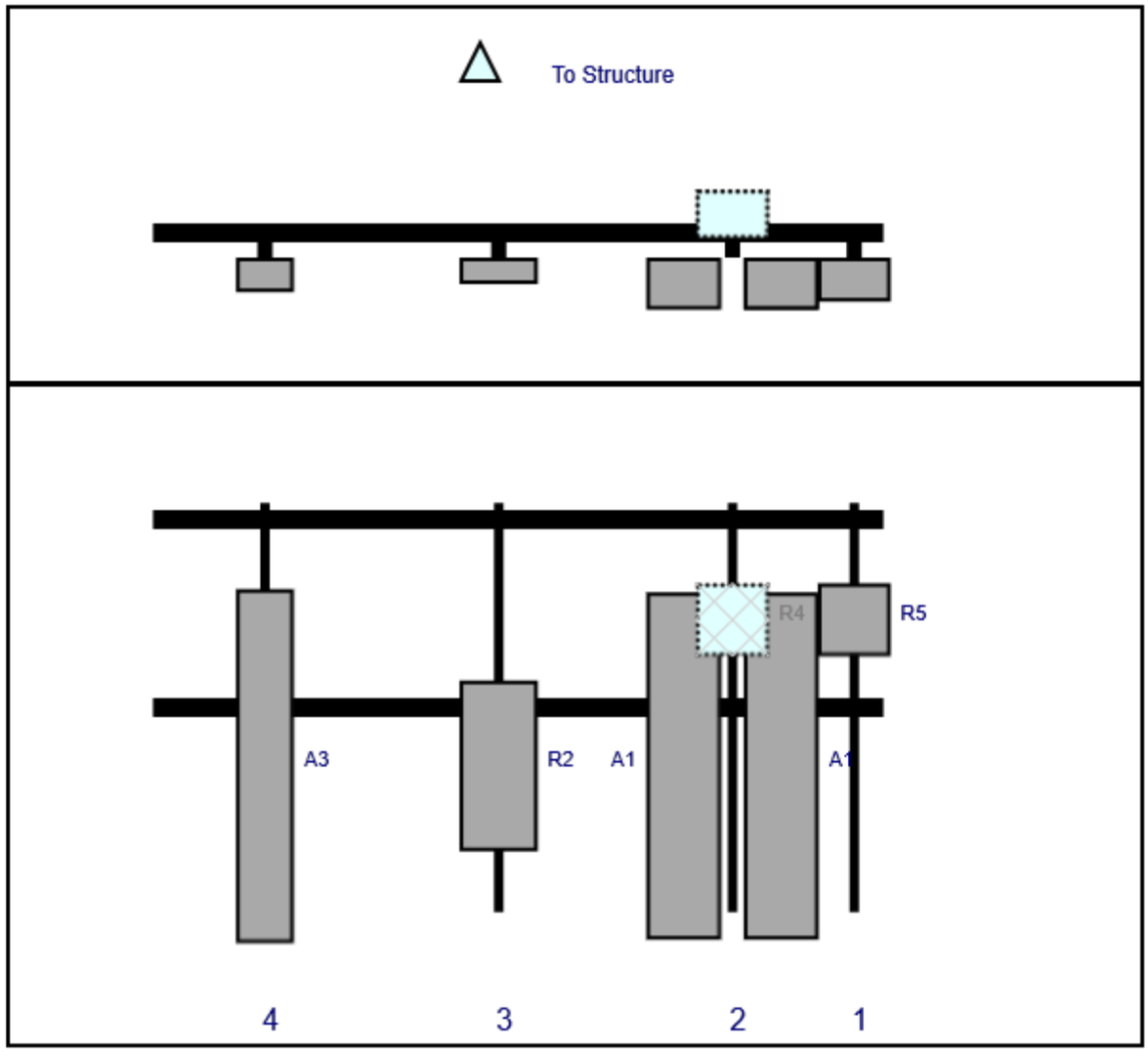
Structure Type: Monopole

Mount Elev: 108.00

11/5/2021

Plan View

Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R5	RF4440d-13A	15	15	144	1	a	Front	24	0	Added	
A1	MX06FRO660-03	71.3	15.4	119	2	a	Front	54	10	Added	
A1	MX06FRO660-03	71.3	15.4	119	2	b	Front	54	-10	Added	
R4	RF4439d-25A	15	15	119	2	a	Behind	24	0	Added	
R2	MT6407-77A	35.1	16.1	71	3	a	Front	54	0	Added	
A3	SBNHH-1D65B	72.6	11.9	23	4	a	Front	54	0	Retained	10/28/2021

Sector: **C**

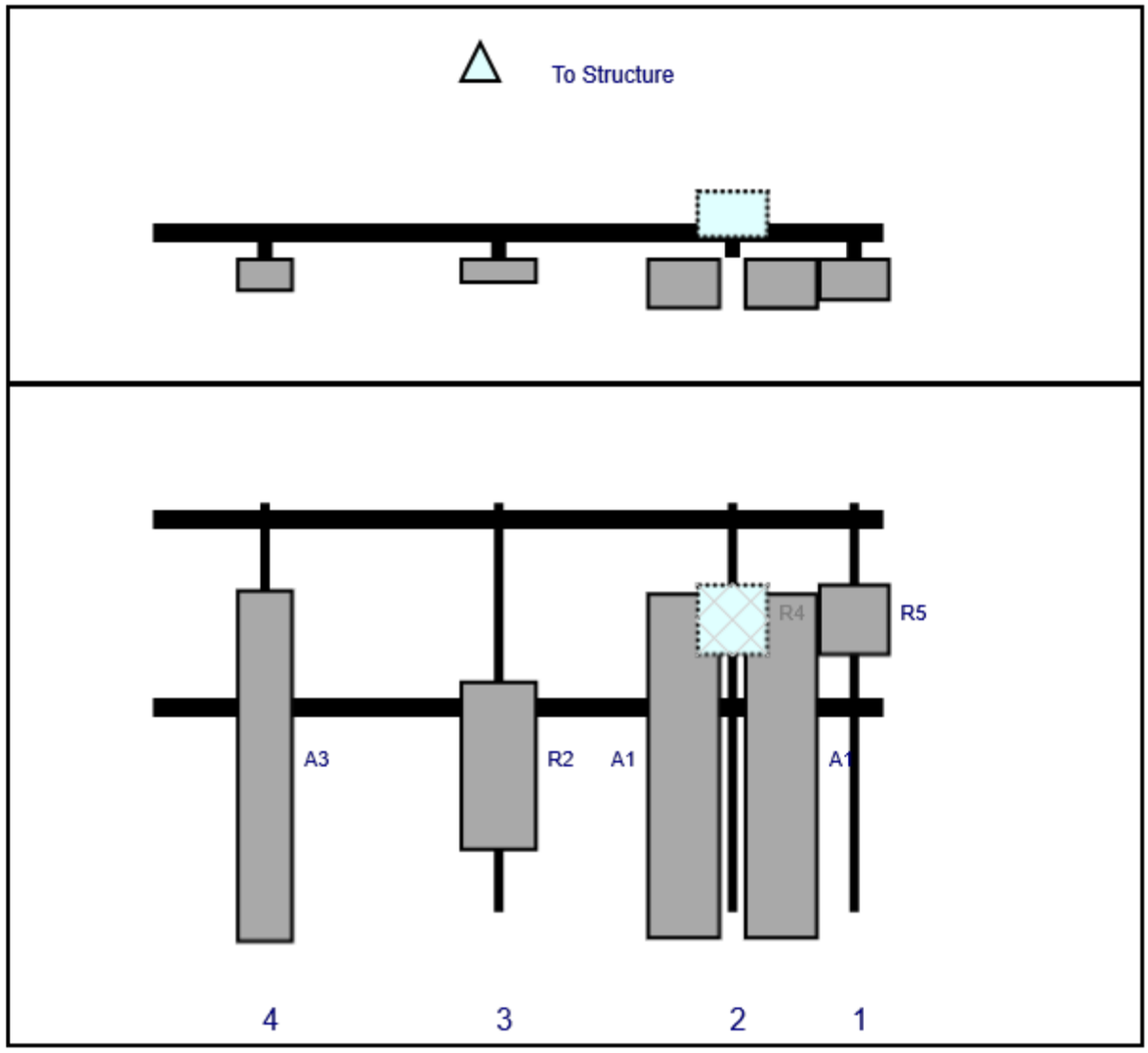
Structure Type: Monopole

Mount Elev: 108.00

11/5/2021

Plan View

Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R5	RF4440d-13A	15	15	144	1	a	Front	24	0	Added	
A1	MX06FRO660-03	71.3	15.4	119	2	a	Front	54	10	Added	
A1	MX06FRO660-03	71.3	15.4	119	2	b	Front	54	-10	Added	
R4	RF4439d-25A	15	15	119	2	a	Behind	24	0	Added	
R2	MT6407-77A	35.1	16.1	71	3	a	Front	54	0	Added	
A3	SBNHH-1D65B	72.6	11.9	23	4	a	Front	54	0	Retained	10/28/2021

Maser Consulting Connecticut

MASER CONSULTING
— CONNECTICUT —

Subject		TIA-222-H Usage
Site Information	Site ID:	468014-VZW / MADISON 4 CT
	Site Name:	MADISON 4 CT
	Carrier Name:	Verizon Wireless
	Address:	17 Cottage Rd Madison, Connecticut 06443 New Haven County
	Latitude:	41.275917°
	Longitude:	-72.561444°
Structure Information	Tower Type:	130-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. The TIA-222-H is the latest revision of the TIA-222 Standard, effective as of January 01, 2018.

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

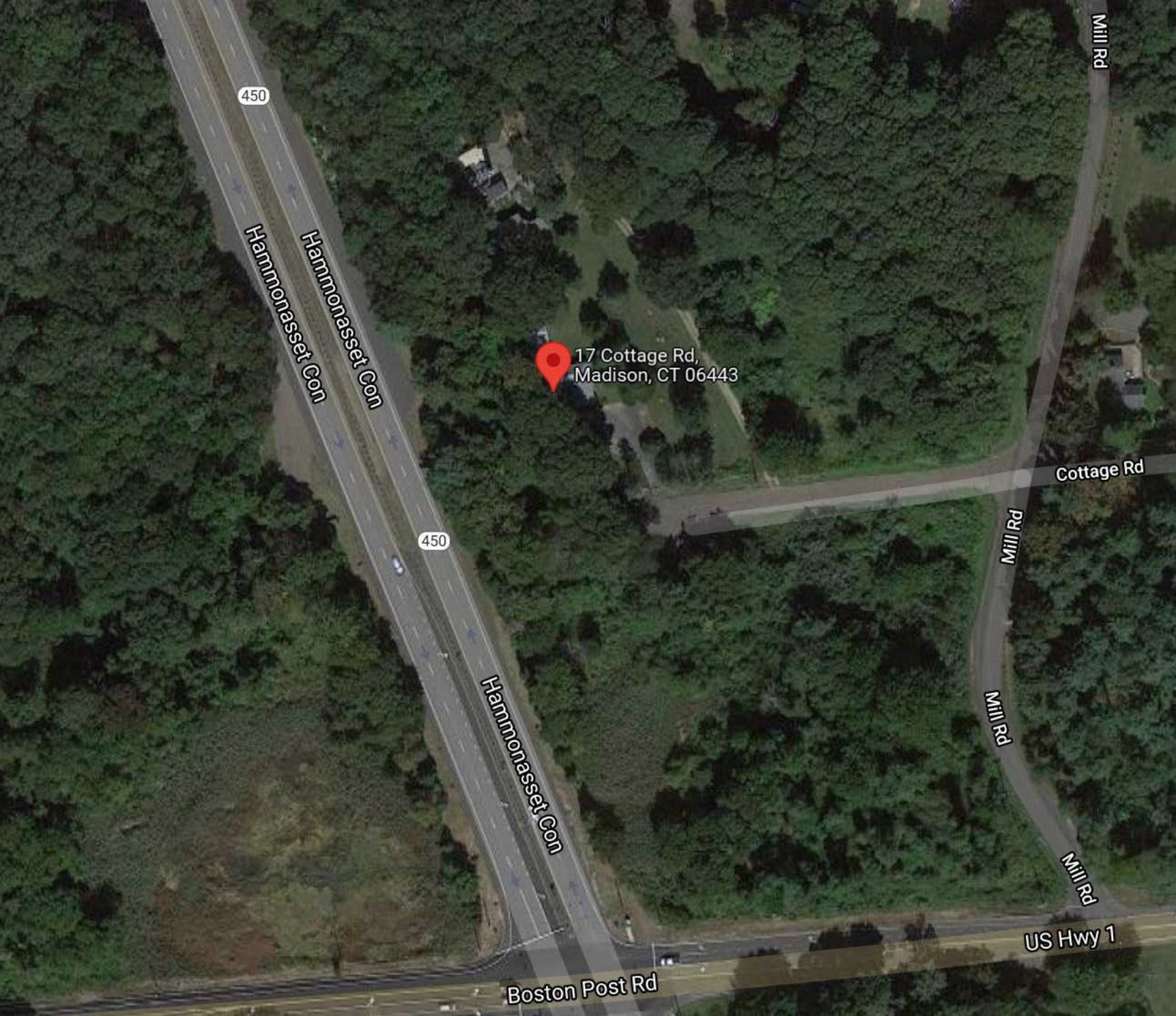
The TIA-222-H standard clarifies these specific requirements for the antenna mount analysis such as modeling method, seismic analysis, 30-degree increment wind direction and maintenance loading. Therefore, it is our opinion that TIA-222-H is the most appropriate standard for antenna mount structural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

Sincerely,

Dejian Xu

Dejian Xu, PE
Technical Manager

ATTACHMENT 5


17 Cottage Rd,
Madison, CT 06443
Hammonasset Con
Hammonasset Con
Hammonasset Con
450
450
Cottage Rd
Mill Rd
Mill Rd
Mill Rd
Mill Rd
US Hwy 1
Boston Post Rd

17 COTTAGE RD

Sales | Print | Map It

Location	17 COTTAGE RD	**MBLU**	30/ 34/ / /
Acct#	00167700	**Owner**	STONEHART PIERS
Assessment	$414,900	**Appraisal**	$592,700
PID	1691	**Building Count**	2
Dev. Map	416		

Current Value

Appraisal					
Valuation Year	**Building**	**Extra Features**	**Outbuildings**	**Land**	**Total**
2021	$282,800	$0	$1,800	$308,100	$592,700
Assessment					
Valuation Year	**Building**	**Extra Features**	**Outbuildings**	**Land**	**Total**
2021	$197,900	$0	$1,300	$215,700	$414,900

Parcel Addreses

Additional Addresses
No Additional Addresses available for this parcel

Owner of Record

Owner	STONEHART PIERS	**Sale Price**	$0

ATTACHMENT 6

UNITED STATES POSTAL SERVICE®

MADISON 4

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 02/11/2022 US POSTAGE $002.99⁰ ZIP 06103 041L12203937
	Postmaster, per *(name of receiving employee)*		

FEB 11 2021 CLD STATEHOUSE STA

USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Peggy Lyons, First Selectwoman Town of Madison 8 Campus Drive Madison, CT 06443				
2.	Eric Mannix, Town Planner Town of Madison 8 Campus Drive Madison, CT 06443				
3.	Piers Stonehart 82 Main Street, Apt. 2 East Hampton, CT 06424				
4.					
5.					
6.					