Robinson+Cole

KENNETH C. BALDWIN

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Hartford, CT 06103-3597
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Also admitted in Massachusetts
and New York

July 20, 2021

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**
220 Winthrop Road, Deep River, 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 related equipment on the ground, near the base of the tower. The tower was approved by the Town of Deep River ("Town") in August 1998. Cellco's shared use of the tower was approved by the Council in May 2014 (TS-VER-036-140512). A copy of the Town's original tower approval and Cellco's tower share approval are included in Attachment 1.

Cellco now intends to modify its facility by installing three (3) new Samsung MT6407-77A antennas on its existing antenna platform. A set of project plans showing Cellco's proposed facility modifications and new antennas specifications are included in Attachment 2.

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Deep River's Chief Elected Official and Land Use Officer. Please note, the Town of Deep River is the owner of the Property.

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

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

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

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

4. The installation of Cellco's new antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative power density table for Cellco's modified facility are 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 can support Cellco's proposed modifications. Copies of the SA and MA are included in Attachment 4. Also included in Attachment 4 is a separate letter prepared by the consulting engineer responsible for the preparation of the SA verifying that the antenna model described in the SA as a VZS01 Antenna, is the Samsung 64T64R (MT6407-77A) model antenna that will be installed on the tower.

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 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:

Angus L. McDonald, Jr., First Selectman for the Town of Deep River
Mike D'Amato, Deep River Zoning Enforcement Officer
John Guszkowski, Deep River Zoning Enforcement Officer
Aleksey Tyurin

ATTACHMENT 1

BUILDING PERMIT

AMOUNT PAID

VALIDATION

DATE 8/24/98 19 PERMIT NO. 98-5-143

APPLICANT Tim Bonanno ADDRESS PO BOX 83, QUAKER HILL 59502
(NO.) (STREET) (CONTR'S LICENSE)

PERMIT TO ERECT COMMUNICATIONS (TOWER STORY NUMBER OF DWELLING UNITS 0
(TYPE OF IMPROVEMENT) NO. (PROPOSED USE)

AT (LOCATION) 220 WINTHROP ROAD (TOWN TRANSFER STATION PROPRTY) ZONING DISTRICT
(NO.) (STREET)

BETWEEN (CROSS STREET) AND (CROSS STREET)

SUBDIVISION LOT BLOCK LOT SIZE

BUILDING IS TO BE FT. WIDE BY FT. LONG BY FT. IN HEIGHT AND SHALL CONFORM IN CONSTRUCTION

TO TYPE USE GROUP BASEMENT WALLS OR FOUNDATION (TYPE)

REMARKS: PERMIT ISSUED FOR THE ERECTION OF COMMUNICATIONS TOWER. PRMIT INCLUDES ELECTRICAL WORK.

AREA OR VOLUME (CUBIC/SQUARE FEET) ESTIMATED COST $ 30,000.00 PERMIT $ 310.00

OWNER TOWN OF DEEP RIVER BUILDING OFFICIAL BY

ADDRESS 220 WINTHROP ROAD, DEEP RIVER

(Affidavit on reverse side of application to be completed by authorized agent of owner)

FORM NO. BOCA - BP 1984

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

May 30, 2014

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

RE: **TS-VER-036-140512–** Cellco Partnership d/b/a Verizon Wireless request for an order to approve tower sharing at an existing telecommunications facility located at 220 Winthrop Road, Deep River, Connecticut.

Dear Attorney Baldwin:

At a public meeting held May 29, 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 proposed coax and remote radio heads shall be installed in accordance with the recommendations made in the Structural Analysis Report prepared by FDH Engineering dated November 4, 2013 and stamped by Bradley Newman;
- Not more than 45 days following completion of the antenna installation, Cellco shall provide documentation certifying that its installation complied with the engineer's recommendation;
- 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 and applies only to this request for tower sharing dated May 9, 2014. 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 the approved tower sharing request is enforceable under the provisions of Connecticut General Statutes § 16-50u.

CSC CONNECTICUT SITING COUNCIL

The proposed shared use is to be implemented as specified in your letter dated May 9, 2014, including the placement of all necessary equipment and shelters within the tower compound.

Please be advised that the validity of this action shall expire one year from the date of this letter.

Thank you for your attention and cooperation.

Very truly yours,

Robert Stein MAB

Robert Stein
Chairman

RS/MP/jb

c: The Honorable Richard H. Smith, First Selectman, Town of Deep River
Cathie Jefferson, Zoning Enforcement Officer, Town of Deep River
Sean Gormley, SBA

ATTACHMENT 2

WIRELESS COMMUNICATIONS FACILITY

DEEP RIVER WEST CT
220 WINTHROP ROAD
DEEP RIVER, CT 06417

DRAWING INDEX

SITE DIRECTIONS

START: 20 ALEXANDER DRIVE
WALLINGFORD, CONNECTICUT 06492

END: 220 WINTHROP ROAD
DEEP RIVER, CT 06417

1.	HEAD SOUTH TOWARDS ALEXANDER DRIVE	279 FT
2.	SLIGHT RIGHT TOWARDS ALEXANDER DRIVE	289 FT
3.	TURN RIGHT TOWARDS ALEXANDER DRIVE	167 FT
4.	TURN RIGHT ONTO ALEXANDER DRIVE	0.3 MI
5.	TURN RIGHT ONTO BARNES INDUSTRIAL RD S.	0.1 MI
6.	TURN RIGHT ONTO CT-68 E	1.6 MI
7.	CONTINUE STRAIGHT TO STAY ON CT-68E	5.3 MI
8.	TURN RIGHT ONTO MAIN STREET	0.9 MI
9.	TURN LEFT ON CT-79 S/MADISON ROAD	8.1 MI
10.	AT THE TRAFFIC CIRCLE, TAKE THE 3RD EXIT ONTO CT-80	4.2 MI
11.	AT THE TRAFFIC CIRCLE, TAKE THE 2ND EXIT ONTO CT-80 E/ STATE HWY 81 (CONTINUE TO FOLLOW RT 80	4.8 MI
12.	TURN LEFT ONTO TRANSFER STATION ROAD	131 FT
13.	TURN LEFT TO STAY ON TRANSFER STATION ROAD. (DESTINATION WILL BE ON THE RIGHT.	0.1 MI

LOCATION MAP
SCALE : 1" = 500'-0"

SITE INFORMATION

VZ SITE NAME: DEEP RIVER WEST CT
VZ PROJ FUZE I.D.: 16272117
VZ LOCATION CODE: 467805
VZ PROJECT CODE: 20212234184
LOCATION: 220 WINTHROP ROAD
DEEP RIVER, CT 06417

PROJECT SCOPE: REFER TO NOTES ON DRAWING C-1 FOR SCOPE OF WORK.

PARCEL ID: 33/1A

ZONING DISTRICT: PRD (PRESERVATION AND RECREATION DISTRICT)

LATITUDE: 41° 21' 57.1392" N (41.365872° N)

LONGITUDE: 72° 28' 29.4564" W (72.474849° W)

SITE COORDINATES AND GROUND ELEVATION OBTAINED FROM GOOGLE EARTH.

GROUND ELEVATION: 250'± AMSL

PROPERTY OWNER: TOWN OF DEEP RIVER
174 MAIN STREET
DEEP RIVER,CT 06417

APPLICANT: CELLCO PARTNERSHIP
d/b/a VERIZON WIRELESS
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

LEGAL/REGULATORY COUNSEL: ROBINSON & COLE, LLP
KENNETH C. BALDWIN, ESQ.
280 TRUMBULL STREET
HARTFORD, CT 06103

ENGINEER CONTACT: ALL-POINTS TECHNOLOGY CORP., P.C.
567 VAUXHALL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385
(860) 663-1697

VERIZON SMART TOOL PROJECT #: 10045197;

Cellco Partnership d/b/a
verizon
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

ALL-POINTS TECHNOLOGY CORPORATION
567 VAUXHALL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

CONSTRUCTION DOCUMENTS

NO	DATE	REVISION
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1	07/15/21	FOR FILING: JRM
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3		
4		
5		
6		

STATE OF CONNECTICUT
MICHAEL TRODDEN
33313
LICENSED
PROFESSIONAL ENGINEER

DESIGN PROFESSIONALS OF RECORD

PROF: MICHAEL S. TRODDEN P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION, P.C.
ADD: 567 VAUXHALL STREET EXT. SUITE 311 WATERFORD, CT 06385

OWNER: TOWN OF DEEP RIVER
ADDRESS: 174 MAIN STREET DEEP RIVER,CT 06417

DEEP RIVER WEST CT

SITE ADDRESS: 220 WINTHROP ROAD DEEP RIVER, CT 06417

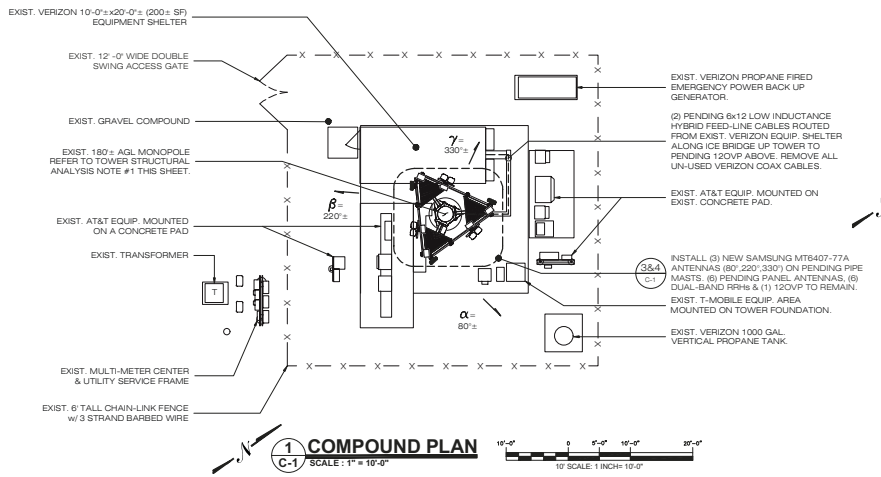
APT FILING NUMBER: CT141_12320

DRAWN BY: DRA
DATE: 06/18/21 **CHECKED BY:** JRM

VZ PROJECT CODE: 20212234184
VZ LOCATION CODE: 467805
VZ FUZE ID: 16272117

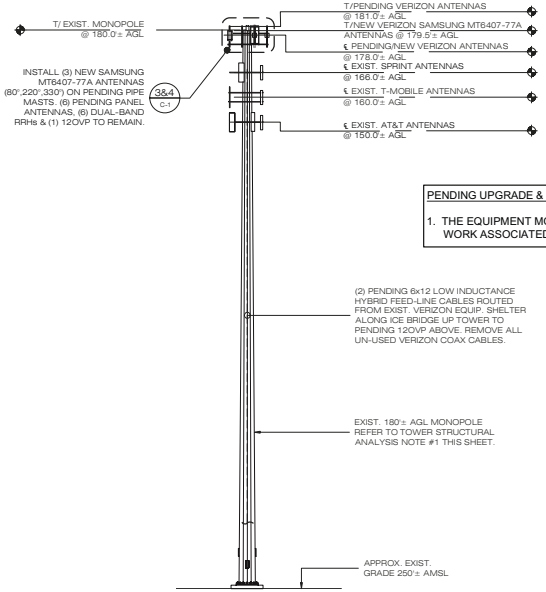
SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
T-1



1 COMPOUND PLAN
C-1 SCALE : 1" = 10'-0"

10' SCALE: 1 INCH= 10'-0"

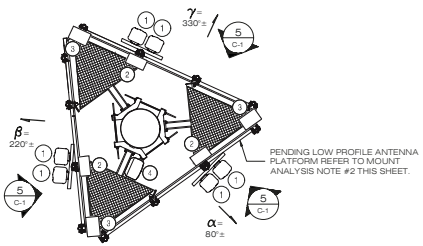


2 TOWER ELEVATION
C-1 SCALE : 1" = 20'-0"

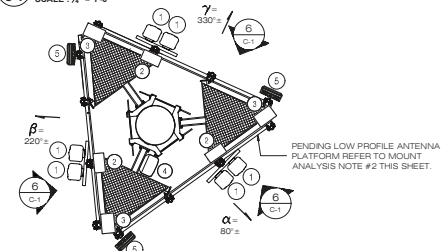
20' SCALE: 1 INCH= 20'-0"

PENDING UPGRADE & MOUNT REINF. NOTE:

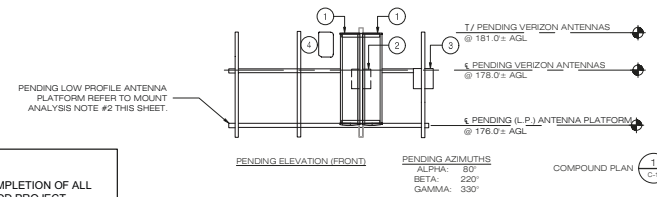
1. THE EQUIPMENT MODIFICATION HEREIN IS BASED UPON THE COMPLETION OF ALL WORK ASSOCIATED WITH A PRIOR AWS-PCS-850-LTE CARRIER ADD PROJECT.



3 EQUIP. CONFIGURATION PLAN (EXIST.)
C-1 SCALE : ¼" = 1'-0"



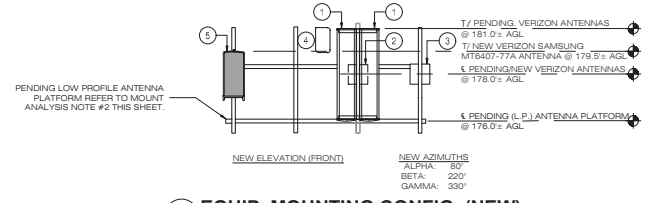
4 EQUIP. CONFIGURATION PLAN (NEW)
C-1 SCALE : ¼" = 1'-0"



PENDING ELEVATION (FRONT)

PENDING AZIMUTHS
ALPHA: 80°
BETA: 220°
GAMMA: 330°

5 EQUIP. MOUNTING CONFIG. (EXIST.)
C-1 SCALE : ¼" = 1'-0"



NEW ELEVATION (FRONT)

NEW AZIMUTHS
ALPHA: 80°
BETA: 220°
GAMMA: 330°

6 EQUIP. MOUNTING CONFIG. (NEW)
C-1 SCALE : ¼" = 1'-0"

COMPOUND PLAN 1 C-1

LOCATION PLAN
SCALE: 1" = 200'

NOTES:

1. REFER TO MONOPOLE TOWER STRUCTURAL ANALYSIS REPORT PREPARED BY TOWER ENGINEERING SOLUTIONS, DATED 05/21/21, AVAILABLE UNDER SEPARATE COVER.
2. REFER TO MOUNT ANALYSIS REPORT PREPARED BY MASER CONSULTING, C.T., PROJECT #21777296A MARKED REV0 DATED 05/27/21 AVAILABLE UNDER SEPARATE COVER.
3. BASE MAPPING FROM FIELD MEASUREMENTS TAKEN BY ALL-POINTS TECH. CORP., P.C. ON 03/17/21.
4. PROJECT SCOPE INCLUDES THE FOLLOWING:
   - INSTALLATION OF (3) NEW SAMSUNG MT6407-77A ANTENNAS ON PENDING PIPE MASTS.
5. ALL EXPOSED STEEL AND HARDWARE TO BE HOT DIP GALV. (HDG). PAINT TO MATCH EXIST. (WHERE APPLICABLE)
6. CAP & WEATHERPROOF ALL UN-USED CABLE ENTRY PORTS (WHERE APPLICABLE).
7. MOUNT & GROUND ALL NEW EQUIPMENT IN ACCORDANCE WITH NEC (NFPA-70), NESC AND MANUFACTURERS SPECIFICATION.
8. SECURE ALL NEW ANTENNA CABLES PER MANUFACTURER RECOMMENDATIONS.
9. BOND NEW ANTENNA MOUNTING PIPES TO ANTENNA SECTOR GROUND BAR w/ # 2 AWG, BCW, (WHERE APPLICABLE).
10. CONTRACTOR SHALL INSTALL NEW SIDE-BY-SIDE & DUAL-MOUNT BRACKETS PER ANTENNA MOUNT MANUFACTURER RECOMMENDATIONS, INCLUDING VERIFICATION OF MINIMUM PIPE MAST DIAMETER REQUIRED TO INSTALL NEW MOUNT BRACKETS. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD SHOULD EXIST. PIPE MASTS REQUIRE REPLACEMENT TO SUPPORT THE NEW MOUNT BRACKETS.
11. ANTENNA CONFIGURATIONS SHOWN HEREIN ARE FRONT ELEVATIONS.
12. ANTENNA SPACING DIMENSIONS ARE TO THE CENTER OF THE EXIST. ANTENNA AND PROP. ANTENNA FACE.
13. REFER TO THE FINAL RFDS PROVIDED BY VERIZON FOR THE LATEST INFORMATION REGARDING EQUIPMENT MODELS, REQUIRED CABLING & DOWN-TILT INFORMATION.
14. APPLY 3M FILM OVER ALL EXPOSED MMWAVE ANTENNAS COLOR TO MATCH EXIST. STRUCTURE (WHERE APPLICABLE) COORDINATE WITH VERIZON CONSTRUCTION MANAGER AND LL.
15. PAINT ALL NEW NON SAMSUNG MT6407-77A ANTENNAS & APPURTENANCES TO MATCH EXIST. STRUCTURE (WHERE APPLICABLE) COORDINATE W/ VERIZON CONSTRUCTION MANAGER & BUILDING OWNER.

GENERAL ABBREVIATION LIST:

□	ABP	ABOVE BASE PLATE
□	AGL	ABOVE GROUND LEVEL
□	AMSL	ABOVE MEAN SEA LEVEL
□	AWS	ADVANCED WIRELESS SERVICE
□	HDG	HOT DIP GALVANIZED
□	OVP	OVER VOLTAGE PROTECTION
□	RRH	REMOTE RADIO HEAD
□	V.I.F.	VERIFY IN FIELD
□	W.P.	WORK POINT
□	A.F.R.	ABOVE FINISH ROOF

SCOPE OF WORK (ALL) SECTORS

1. PENDING ANTENNA (TO REMAIN) MODEL: JMA MX06FRO660-03
2. PENDING DUAL BAND RRH (TO REMAIN) MODEL: SAMSUNG B13/B5 RRH-BR04C (RFV01U-D2A)
3. PENDING DUAL BAND RRH (TO REMAIN) MODEL: SAMSUNG B66/B2A RRH-BR049 (RFV01U-D1A)
4. PENDING 12OVP (TO REMAIN) MODEL: RAYCAP RVZDC-6627-PF-48
5. NEW ANTENNA MODEL: SAMSUNG MT6407-77A

Cellco Partnership d/b/a
verizon
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

ALL-POINTS TECHNOLOGY CORPORATION
567 VAUXHALL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

CONSTRUCTION DOCUMENTS

NO	DATE	REVISION
0	06/18/21	FOR REVIEW: JRM
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STATE OF CONNECTICUT · MICHAEL TRODDEN · 33313 · LICENSED PROFESSIONAL ENGINEER

DESIGN PROFESSIONALS OF RECORD

PROF: MICHAEL S. TRODDEN P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION, P.C.
ADD: 567 VAUXHALL STREET EXT. SUITE 311 WATERFORD, CT 06385

OWNER: TOWN OF DEEP RIVER
ADDRESS: 174 MAIN STREET DEEP RIVER,CT 06417

DEEP RIVER WEST CT

SITE ADDRESS: 220 WINTHROP ROAD DEEP RIVER, CT 06417

APT FILING NUMBER: CT141_12320

DRAWN BY: DRA
DATE: 06/18/21 CHECKED BY: JRM

VZ PROJECT CODE: 20212234184
VZ LOCATION CODE: 467805
VZ FUZE ID: 16272117

SHEET TITLE:
COMPOUND PLAN, TOWER ELEVATION, EQUIP. CONFIGURATION PLANS & ELEVATIONS

SHEET NUMBER:
C-1

EQUIPMENT DATA

EQUIPMENT SPECIFICATIONS

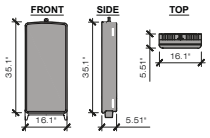
SECTOR	ANTENNA MAKE/MODEL	QTY	AZIMUTH	EQUIPMENT STATUS	HEIGHT (IN)	WIDTH (IN)	DEPTH (IN)	WEIGHT (LBS)
ALPHA	700/850/1900/2100: JMA MX06FRO660-03	1	80°	PENDING	71.3	15.4	10.7	60.0 (2)
	700/850/1900/2100: JMA MX06FRO660-03	1	80°	PENDING	71.3	15.4	10.7	60.0 (2)
	SAMSUNG MT6407-77A	1	80°	NEW	35.1 (5)	16.1 (5)	5.51 (5)	87.1 (2)(5)
BETA	700/850/1900/2100: JMA MX06FRO660-03	1	220°	PENDING	71.3	15.4	10.7	60.0 (2)
	700/850/1900/2100: JMA MX06FRO660-03	1	220°	PENDING	71.3	15.4	10.7	60.0 (2)
	SAMSUNG MT6407-77A	1	220°	NEW	35.1 (5)	16.1 (5)	5.51 (5)	87.1 (2)(5)
GAMMA	700/850/1900/2100: JMA MX06FRO660-03	1	330°	PENDING	71.3	15.4	10.7	60.0 (2)
	700/850/1900/2100: JMA MX06FRO660-03	1	330°	PENDING	71.3	15.4	10.7	60.0 (2)
	SAMSUNG MT6407-77A	1	330°	NEW	35.1 (5)	16.1 (5)	5.51 (5)	87.1 (2)(5)
	APPURTENANCE MAKE/MODEL							
	SAMSUNG B2/B66A RRH-BR049 (RFV01U-D1A)	3	-	PENDING	14.9	14.9	10.04	97.5
	SAMSUNG B5/B13 RRH-BR04C (RFV01U-D2A)	3	-	PENDING	14.9	14.9	8.14	82.0
	RAYCAP RVZDC-6627-PF-48	1	-	PENDING	29.5	16.5	12.6	32

(1) 'ETR' DENOTES EXIST. TO REMAIN
(2) WEIGHT WITHOUT MOUNTING BRACKET.
(3) ANTENNA DATA BASED ON RFDS REV0 DATED 02/25/21
(4) EQUIPMENT CONFIGURATION AS VIEWED FROM BEHIND.
(5) NOT TO EXCEED

BILL OF MATERIALS

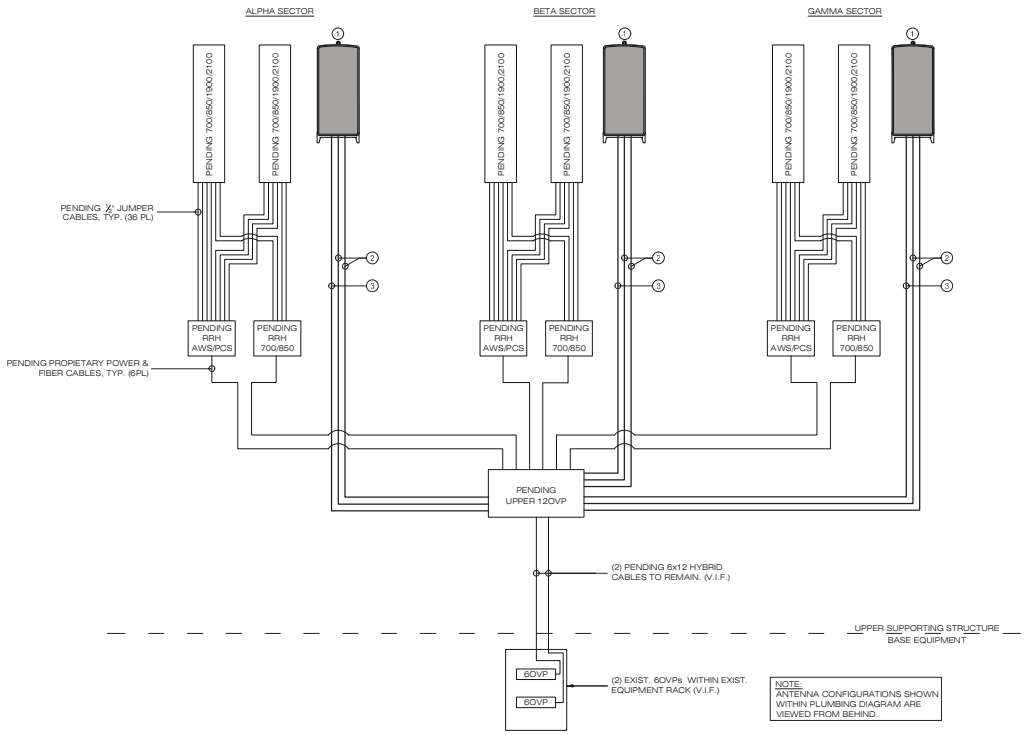
		QUANTITY	LENGTH	COMMENTS
(1)	SAMSUNG MT6407-77A	3		MOUNTED TO ANTENNA PIPE MAST
(2)	ANTENNA LINK CABLES	6	15 FT	ROUTE FROM UPPER PENDING 12OVP TO ANTENNAS
(3)	ANTENNA POWER CABLES	3	15 FT	PROPIETARY POWER CABLE FROM PENDING 12OVP TO ANTENNAS

NOTES:
1. INFORMATION SHOWN HEREON IS FOR USE BY VERIZON EQUIPMENT OPERATIONS.
2. INFORMATION IS BASED ON RFDS, MARKED REV0 DATED 02/25/21.
3. * DENOTES EQUIPMENT DESIGNATED "FOR LEASING ONLY" (WHERE APPLICABLE)
4. INSTALL ALARM BOARDS AT ALL OVPs WHERE REQUIRED. COORDINATE w/ VERIZON EQUIPMENT ENGINEERING.
5. INSTALL UP-CONVERTER(S) LOCATED AT BASE OVPs WHERE REQUIRED. COORDINATE w/ VERIZON EQUIPMENT ENGINEERING AS NECESSARY.
6. COORDINATE ANTENNA CABLING REQUIREMENTS WITH VERIZON ENGINEERING.



SAMSUNG MT6407-77A ANTENNA
HxWxD=35.1"x16.1"x5.51"
WT=87.1 Lbs
(NOT TO EXCEED)

1 B-1 NEW ANTENNA DETAIL
SCALE : ½" = 1'-0"



1 B-1 PLUMBING DIAGRAM
SCALE : ½" = 1'-0"

Cellco Partnership d/b/a
verizon
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

ALL-POINTS TECHNOLOGY CORPORATION
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STATE OF CONNECTICUT
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PROFESSIONAL ENGINEER

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VZ PROJECT CODE: 20212234184
VZ LOCATION CODE: 467805
VZ FUZE ID: 16272117

SHEET TITLE:
RF BILL OF MATERIALS, MECHANICAL SPECIFICATIONS & EQUIPMENT DETAILS

SHEET NUMBER:
B-1

DESIGN BASIS:

GOVERNING CODES/DESIGN STANDARDS:

2015 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED BY THE 2018 CONNECTICUT STATE BUILDING CODE
ASCE 7-10
TIA-222-G (TOWER)

01 GENERAL:

ABBREVIATIONS USED IN THESE SPECIFICATIONS INCLUDE THE FOLLOWING:

ACI	AMERICAN CONCRETE INSTITUTE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AWS	AMERICAN WELDING SOCIETY
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN STANDARDS AND TESTING METHODS
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
ICC-ES	INTERNATIONAL CODE COUNCIL EVALUATION SERVICE
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
UL	UNDERWRITERS LABORATORIES
NEC	NATIONAL ELECTRICAL CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

EVERY INDIVIDUAL TRADE, DISCIPLINE, AND CONTRACTOR SHALL INCLUDE THESE GENERAL SPECIFICATIONS.

THE ENGINEER IS NOT RESPONSIBLE FOR NOR A GUARANTOR OF THE INSTALLING CONTRACTORS WORK, ADEQUACY OF ANY SITE COMPONENT, SUPERVISION OF ANY WORK, AND SAFETY IN, ON, OR ABOUT THE WORK SITE.

ANY REFERENCE HEREIN TO AN OR EQUAL ITEM, THAT EQUAL ITEM SHALL BE PRE-APPROVED BY THE CONSTRUCTION MANAGER BEFORE INSTALLATION

ALL TRADES SHALL COORDINATE THEIR WORK WITH ALL OTHER TRADES AND OTHER WORK AND CONDITIONS AS APPROPRIATE OR REQUIRED TO AVOID CONFLICTS. RESOLVE AND COORDINATE ALL CONFLICTS WITH ALL AFFECTED WORK AND SITE OPERATIONS. COORDINATION WITH THE SITE SHALL BE WITH THE OWNER, OR OWNER'S SPECIFIED REPRESENTATIVE, FOR EVERYTHING RELATED TO THE INSTALLATION OF THIS PROJECT.

ALL WORK SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE EDITIONS OF ALL APPLICABLE CODES AND SHALL BE ACCEPTABLE TO ALL AUTHORITIES HAVING JURISDICTION (AHJ). WHERE A CONFLICT EXISTS BETWEEN CODES, PLANS, SPECIFICATIONS, AND/OR AHJ, THE MORE STRINGENT AUTHORITY SHALL APPLY. WHERE CONFLICT EXISTS BETWEEN PLANS AND SPECIFICATIONS, PLAN SHALL APPLY. WHERE CONFLICT EXISTS BETWEEN PLAN SHEETS, CONSTRUCTION MANAGER SHALL BE CONSULTED PRIOR TO COMMENCING ANY WORK.

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR A COMPLETE AND PROPERLY OPERATIVE AND USABLE SYSTEM THROUGHOUT AND AS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN AND/OR OTHERWISE REQUIRED.

CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, INSTALLATIONS, AND EQUIPMENT IN THE FIELD PRIOR TO BID, FABRICATION, AND INSTALLATION OF ANY WORK.

CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. THE ENGINEER SHALL BE NOTIFIED FOR INSPECTIONS PRIOR TO CLOSING PENETRATIONS AND OF ANY CONDITIONS WHICH PRECLUDE COMPLETION OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

CONTRACTOR SHALL VISIT THE SITE TO MANAGE AND GAIN APPROVAL FOR ALL TENANT DISRUPTIONS, POWER OUTAGES, WORK SCHEDULES, DEFINITION OF WORK AREA AND WORK STORAGE, NEWER BUILDING/SITE ACCESS, NOISE AND CLEANLINESS REQUIREMENTS WITH THE BUILDING/SITE MANAGEMENT PRIOR TO ALL WORK. ANY DISRUPTIONS SHALL BE KEPT TO A MINIMUM AND SHALL BE IMPLEMENTED ONLY UPON WRITTEN APPROVAL OF THE OWNER.

THE CONTRACTOR SHALL SAFEGUARD AGAINST CREATING ANY HAZARD AFFECTING TENANT EGRESS OR COMPROMISING SITE SECURITY MEASURES.

PRIOR TO ALL BELOW-GRADE WORK AND ANY SURFACE WORK IN A NEW AREA FOR STRUCTURES OR VEHICLES, CONTRACTOR SHALL ENGAGE A MARKOUT SERVICE TO IDENTIFY ANY UNDERGROUND STRUCTURES, CONDUITS, AND PIPELINES IN THE AREA. ALL EXISTING SEWER, WATER, GAS, ELECTRIC, FIBER OPTIC, AND OTHER UNDERGROUND UTILITIES IDENTIFIED OR ENCOUNTERED, SHALL BE PROTECTED AT ALL TIMES. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN DIGGING OR EXCAVATING IN ANY MANNER AROUND OR NEAR SUCH UTILITIES. CONTRACTOR IS RESPONSIBLE FOR REPAIRS, REPLACEMENT, AND ALL DAMAGES DUE TO DAMAGE OF UTILITIES BY HIS OPERATIONS.

ALL EXISTING AND NEW EQUIPMENT AND MATERIAL LOCATIONS, ROUTING, ORIENTATION, MOUNTING, SPECIFICATIONS AND GENERAL INSTALLED CHARACTERISTICS SHALL BE CONSIDERED DIAGRAMMATIC ON THE PLANS. EXACT CONDITIONS SHALL BE DETERMINED IN THE FIELD PRIOR TO ANY INSTALLATION. ANY DIFFERENCES THAT MAY CAUSE SCHEDULE, COST, OR QUALITY SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER OR ENGINEER PRIOR TO ANY WORK.

ALL REFERENCES HEREIN TO VERIFICATION OF ANY CONDITION OF SITE, FIELD, PLANS, OR SPECIFICATIONS PRIOR TO ANY WORK SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR. ANY AND ALL ADDITIONS, MODIFICATIONS, CHANGES, REPAIR, OR DEMOLITION AS A RESULT OF FAILURE TO BRING ANY EXISTING CONDITION PROPERLY TO THE ATTENTION OF THE OWNER OR ENGINEER SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR WITHOUT DELAY, COST, OR CHANGES IN QUALITY.

ALL NOTES THIS SHEET SHALL APPLY UNLESS SPECIFICALLY NOTED OTHERWISE ON THE INCLUDED DRAWINGS OR IN SEPARATE PROJECT SPECIFICATIONS AS APPLICABLE. ALL SPECIFICATIONS SHALL BE CONSIDERED REQUIRED UNLESS APPROVED EQUAL BY THE OWNER, CONSTRUCTION MANAGER, OR ENGINEER AS APPLICABLE.

THE WORDS "PROVIDE" OR "INSTALL" SHALL MEAN FURNISH AND INSTALL.

CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING AS REQUIRED FOR THE INSTALLATION OF HIS WORK. ANY PATCHING SHALL MATCH EXISTING SURROUNDING AREA IN ALL RESPECTS. ALL REMOVED MATERIAL SHALL BE REMOVED FROM THE PREMISES DAILY IN AN APPROVED SAFE MANNER.

ALL SURPLUS MATERIAL SHALL BE REMOVED FROM THE SITE PROMPTLY WHEN DEEMED TO BE SURPLUS.

EVERY CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF HIS WORK AND NEWLY INSTALLED OR EXISTING WORK, INCLUDING PROTECTION OF THE SITE, ALL STRUCTURES, AND ALL OCCUPANTS. FURNISH, INSTALL, MAINTAIN, AND REMOVE AS APPROPRIATE, ALL APPROPRIATE BARRIERS, SAFETY GUARDS, SIGNAGE, AND SECURITY AS REQUIRED.

EVERY CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR RESPECTIVE FEES, PERMITS, INSPECTIONS, TESTING, CERTIFICATES, AND ALL MANAGEMENT OF SAME REQUIRED FOR COMPLETION OF AND LEGAL OCCUPANCY OF THE FINISHED PROJECT.

ALL CONTRACTORS SHALL PROVIDE ALL NECESSARY TOOLS, FIXTURES, SERVICES, MATERIALS, JOB AIDS, AND PERSONNEL REQUIRED FOR THE EXECUTION OF THEIR WORK.

EACH CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP BY THEM TO BE FREE OF DEFECTS AND MAINTAINED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE OF THE INSTALLATION BY THE OWNER AND ENGINEER.

ALL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS IN THE TRADE HAVING JURISDICTION.

ANY DEVIATION, MODIFICATION, ADDITION, OR CHANGE IN DESIGN SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE OWNER OR ENGINEER.

ALL CONTRACTORS SHALL SUBMIT SHOP DRAWINGS OF ALL EQUIPMENT AND MATERIALS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION, AND SHALL NOT PROCEED UNTIL ENGINEER APPROVAL IN WRITING IS RETURNED. EACH CONTRACTOR SHALL MAINTAIN ON JOB SITE A COMPLETE SET OF SHOP DRAWINGS WITH ANY DEVIATIONS FROM THE ORIGINAL DESIGN SHALL BE NOTED.

ALL MATERIALS AND EQUIPMENT SHALL BE NEW, WITHOUT BLEMISH OR DEFECT, AND SUITABLE AND LISTED FOR THE INSTALLATION AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS OR SPECIFICATIONS. ALL ITEMS OF EQUIPMENT OR MATERIAL THAT ARE OF ONE GENERIC TYPE SHALL BE ONE MANUFACTURER THROUGHOUT.

ALL MATERIALS, EQUIPMENT, TOOLS, AND ITEMS UNDER THE CONTRACTOR'S RESPONSIBILITY ON THE JOBSITE SHALL BE ADEQUATELY SECURED, MAINTAINED, AND PROTECTED, SO AS NOT TO BECOME DAMAGED OR CREATE ANY HAZARD TO PERSONNEL OR PROPERTY.

THE CONTRACTORS HOURS OF WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES AND BE APPROVED BY THE OWNER.

CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR ALL OF HIS CREW AND INSURE THAT EVERY CREW MEMBER FOLLOWS SAVE WORK PRACTICES. SAFETY TRAINING SHALL INCLUDE, BUT NOT BE LIMITED TO, FALL PROTECTION, CONFINED SPACE ENTRY, ELECTRICAL SAFETY, AND TRENCHING/EXCAVATION SAFETY WHERE SUCH WORK IS EXECUTED OR ENCOUNTERED.

ALL TEMPORARY WORK REQUIRED OR SPECIFIED AS A PART OF THIS WORK, SHALL MEET ALL OF THE SAME REQUIREMENTS AS PERMANENT INSTALLATIONS, SHALL MEET ALL APPLICABLE CODE REQUIREMENTS, AND SHALL BE COMPLETELY REMOVED AFTER ITS PURPOSES HAVE BEEN SERVED.

ANY EXISTING UTILITY, SERVICE, STRUCTURE, EQUIPMENT, OR FIXTURE OBSTRUCTING THE WORK SHALL BE REMOVED AND/OR RELOCATED AS DIRECTED BY THE CONSTRUCTION MANAGER.

IF ASBESTOS IS ENCOUNTERED DURING WORK EXECUTION, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER AND CEASE ALL ACTIVITIES IN AFFECTED AREAS UNTIL NOTIFIED BY THE CONSTRUCTION TO RESUME OPERATIONS.

EXIST. ELECTRICAL AND MECHANICAL FIXTURES, PIPING, WIRING AND EQUIPMENT OBSTRUCTING THE WORK SHALL BE REMOVED AND/OR RELOCATED AS DIRECTED BY THE CONSTRUCTION MANAGER. TEMPORARY SERVICE INTERRUPTIONS MUST BE COORDINATED WITH OWNER.

05 STEEL:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.

MATERIALS:

WIDE FLANGE	ASTM A992, GR 50
TUBING	ASTM A500, GR B
PIPE	ASTM A53, GR B
BOLTS	ASTM A325
GRATING	TYPE GW-2 (1-1/4"x3/16" BARS)
EXISTING METALS	ASTM A36

PROVIDE CERTIFICATION THAT WELDERS TO BE USED IN WORK ARE LICENSED AND HAVE SATISFACTORILY PASSED AWS QUALIFICATION TEST UNDER THE PROVISIONS OF APPENDIX D, PARTS II AND III OF THE AWS CODE FOR WELDING IN BUILDING CONSTRUCTION.

ALL BUILDING CONNECTION POINTS TO BE CENTERED ON EXISTING STRUCTURAL BEARING POINTS AND THE LOCATIONS ARE TO BE VERIFIED IN FIELD PRIOR TO THE FABRICATION OF STEEL.

DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF AISC SPECIFICATION FOR *"THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS"*.

NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIAMETER GALVANIZED ASTM A 307 BOLTS UNLESS OTHERWISE NOTED.

ALL STEEL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIPPED GALVANIZED) COATINGS" ON IRON AND STEEL PRODUCTS WITH A COATING WEIGHT OF 2 OZ/SF.

ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE EXPOSED TO WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC COATING (HOT-DIP) ON IRON AND STEEL HARDWARE."

DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY TOUCHING UP ALL DAMAGED GALVANIZED STEEL WITH COLD ZINC, "GALVANOX", "DRY GALV", OR "ZINC IT", IN ACCORDANCE WITH MANUFACTURERS GUIDELINES. TOUCH UP DAMAGED NON-GALVANIZED STEEL WITH SAME PAINT APPLIED IN SHOP OR FIELD.

THE ENGINEER SHALL BE NOTIFIED OF ANY INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE ENGINEER REVIEW. FIELD CUTTING OF STRUCTURAL STEEL IS NOT PERMITTED EXCEPT WITH THE PRIOR APPROVAL OF THE ENGINEER.

CONTRACTOR TO REMOVE AND RE-INSTALL ALL FIRE PROOFING AS REQUIRED DURING CONSTRUCTION.

THE STEEL STRUCTURE SHALL BE DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER COMPLETION. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION.

ALL STEEL ELEMENTS SHALL BE INSTALLED PLUMB AND LEVEL.

TOWER MANUFACTURER'S DESIGNS SHALL PREVAIL FOR TOWER.

CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC *"MANUAL OF STEEL CONSTRUCTION"*. CONNECTIONS SHALL BE PROVIDED TO CONFORM TO THE REQUIREMENTS OF TYPE 2 CONSTRUCTION.

STRUCTURAL CONNECTION BOLTS SHALL CONFORM TO ASTM A325. ALL BOLTS SHALL BE MINIMUM 3/4" DIAMETER AND EACH CONNECTION SHALL HAVE MINIMUM TWO BOLTS. LOCK WASHERS ARE NOT PERMITTED FOR A325 STEEL ASSEMBLIES. IF TENSION CONTROL BOLTS ARE USED, CONNECTIONS SHALL BE DESIGNED FOR SLIP CRITICAL BOLT ALLOWABLE LOAD VALUES.

DESIGN CONNECTIONS AT BEAM ENDS FOR 10 KIPS (MIN).

ALL U-BOLTED CONNECTIONS SHALL BE COMPLETED WITH DOUBLE NUTS OR A LOCK WASHER.

CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS *"STANDARD QUALIFICATION PROCEDURES"*. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND SHALL CONFORM TO AISC AND D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE LARGER OF 1/4" FILLET OR MINIMUM SIZE PER TABLE J2.4 IN THE AISC *"MANUAL OF STEEL CONSTRUCTION"*. AT THE COMPLETION OF WELDING, ALL DAMAGE TO GALVANIZED COATING SHALL BE REPAIRED. SEE NOTE REGARDING DAMAGED GALVANIZED SURFACES.

ALL ARC AND GAS WELDING SHALL BE DONE BY A LICENSED AND CERTIFIED WELDER IN ACCORDANCE WITH AWS.

SEAL ALL PENETRATIONS AND SEAMS BETWEEN MASONRY AND STEEL WITH DOW CORNING 790 SILICONE BUILDING SEALANT OR EQUAL.

26 ELECTRICAL:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.

ALL ELECTRICAL CONDUCTORS:

- INSULATION SHALL BE MINIMUM 600V TYPE THHN, THWN-2, OR XHHW.
- BRANCH CIRCUIT CONDUCTORS SHALL BE SOFT DRAWN 98% MINIMUM CONDUCTIVITY PROPERLY REFINED COPPER.
- FEEDER CIRCUIT CONDUCTORS SHALL BE EITHER COPPER OR ALUMINUM OF THE APPROPRIATE SIZE FOR THE APPLICATION, OR AS SPECIFICALLY NOTED.
- PERMANENTLY LABEL OR TAG ALL CONDUCTORS WITH THEIR CIRCUIT DESIGNATION AT ALL TERMINATION ENDS, SPLICES, AND VISIBLE AS PASS-THROUGH IN ALL ENCLOSURES.

ALL CONDUIT, RACEWAY, WIREWAYS, DUCTS, ETC. SHALL BE LISTED AND SUITABLE FOR THE APPLICATION. ONLY THE FOLLOWING CONDUITS AS APPROVED AND LISTED FOR THE APPLICATION SHALL BE ACCEPTABLE:

- ELECTRICAL METALLIC TUBING (EMT).
- COMPRESSION COUPLINGS AND CONNECTORS ONLY MADE UP WRENCH TIGHT.
- FLEXIBLE METAL CONDUIT (FMC) AND LIQUIDTIGHT FLEXIBLE METAL CONDUIT (LFMC).
- FINAL CONNECTIONS TO VIBRATING OR ADJUSTABLE EQUIPMENT INCLUDING, BUT NOT LIMITED TO, LIGHT FIXTURES, HVAC UNITS, TRANSFORMERS, MOTORS, ETC. OR WHERE EQUIPMENT IS PLACED UPON SLAB ON-GRADE.
- RIGID GALVANIZED STEEL (RGS).
- ALL FITTINGS, CONNECTORS, AND COUPLINGS SHALL BE THREADED MADE UP WRENCH TIGHT.
- RIGID POLYVINYL CHLORIDE (PVC) SCHEDULE 40 OR SCHEDULE 80.
- MAY BE USED FOR SERVICES, EXTERIOR, BELOW GRADE, AND WET LOCATIONS.
- SHALL NOT BE USED IN CONCRETE SLABS NOR EXPOSED WITHIN A BUILDING OR STRUCTURE.
- METAL-CLAD CABLE (MC)
- CONCEALED INSTALLATIONS ONLY.
- WITHIN A DUCT WITH SMOOTH OR CORRUGATED METAL JACKET AND NO OUTER COVERING OVER THE METAL JACKET.

IN FINISHED SPACES, ALL CONDUITS SHALL BE CONCEALED EXCEPT TO MAKE A FINAL CONNECTION TO EQUIPMENT NOT MOUNTED IN OR AGAINST FINISH MATERIAL.

ALL FEEDER AND BRANCH CIRCUITS SHALL HAVE A SEPARATE PROPERLY SIZED AND MARKED GROUNDING CONDUCTOR, PER APPLICABLE CODES, THAT BONDS ALL ENCLOSURES, BOXES, ETC. CONDUIT SHALL NOT BE USED AS A GROUNDING OR BONDING CONDUCTOR.

IF EXISTING ELECTRIC SERVICE IS TO REMAIN, CONTRACTOR SHALL BE VERIFY THAT IT MEETS PROJECT REQUIREMENTS WITHOUT MODIFICATION. IF IT IS TO BE ADDED OR REPLACED AS A PART OF THIS WORK, CONTRACTOR SHALL ORDER FROM, COORDINATE WITH, AND GAIN APPROVAL FROM THE ELECTRICAL UTILITY. ALL ELECTRICAL EQUIPMENT SHALL BE AS SPECIFIED AND AS APPROVED BY THE LOCAL UTILITY WHERE APPLICABLE.

ALL EQUIPMENT, ENCLOSURES, ETC. SHALL BE SUITABLE FOR THE INSTALLED ENVIRONMENT, MINIMUM NEMA 3R FOR ALL EXTERIOR INSTALLATIONS.

WIRING DEVICES SHALL BE SPECIFICATION GRADE AND WIRING DEVICE COVER PLATES SHALL BE PLASTIC WITH ENGRAVING AS SPECIFIED. COLOR SHALL BE IVORY. ALL DEVICES AND COVER PLATES SHALL BE OF THE SAME MANUFACTURER.

ALL FIRE-RATED PENETRATIONS SHALL BE SEALED USING A SUITABLE AND LISTED FIRE SEALING DEVICE OR GROUT THAT WILL MAINTAIN THE FIRE RATING OF THE STRUCTURE PENETRATED.

PROVIDE PERMANENTLY AFFIXED ENGRAVED NAMEPLATES FOR ALL CODE REQUIRED LABELING AND ON ALL PANELS, METERING, DISCONNECTS, AND ELECTRICAL EQUIPMENT THAT IDENTIFIES EQUIPMENT SERVED, ELECTRICAL SOURCE WITH CIRCUIT IDENTIFICATION, AND VOLTAGES WITHIN.

ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL FINAL TERMINATIONS TO ALL EQUIPMENT.

ALL ELECTRICAL APPURTENANCES THAT ARE DISCONNECTED SHALL BE COMPLETELY REMOVED WITH EXISTING STRUCTURES TO REMAIN, REPAIRED, FINISHED, FILLED, PAINTED, ETC. ALL PANEL SCHEDULES, EQUIPMENT LABELING, AND CODE-REQUIRED LABELING, SHALL BE VERIFIED AND PROPERLY COMPLETED TO MATCH THE INSTALLATION.

26 GROUNDING:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.

GROUND ALL SYSTEMS AND EQUIPMENT IN ACCORDANCE WITH BEST INDUSTRY PRACTICE, THE REQUIREMENTS OF THE NFPA 70 NATIONAL ELECTRICAL CODE (NEC), AND ALL OTHER APPLICABLE CODES AND REGULATIONS.

ALL GROUNDING ELECTRODES PRESENT AT EACH SERVICE LOCATION SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM.

ALL EQUIPMENT ENCLOSURES, DEVICES, AND CONDUITS SHALL BE GROUNDED BY THE INSTALLATION OF A SEPARATE GROUNDING CONDUCTOR FOR ALL FEEDER AND BRANCH CIRCUITS THAT IS SIZED PER CODE OR IS OF THE SIZE INDICATED ON THE DRAWINGS, SHALL BE CONTINUOUS IN LENGTH, AND SHALL BE BONDED TO EACH ENCLOSURE PASSED THROUGH. CONDUIT SHALL NOT BE USED AS A GROUNDING OR BONDING WIRE OR CIRCUIT.

BOND ALL METALLIC CONDUITS TOGETHER THAT ARE CONNECTED TO NON-METALLIC ENCLOSURES, IN-GROUND BOXES, AND TO AN ENCLOSURE WHERE A GROUND BUS IS SPECIFIED OR SUPPLIED. ACCOMPLISH THIS BOND WITH GROUNDING CONDUCTORS MINIMUM SIZED TO THE LARGEST GROUNDING CONDUCTOR PRESENT IN THE ENCLOSURE CONNECTED TO A GROUNDING TYPE BUSHING EQUALLY SIZED OR MAXIMUM GROUND WIRE ACCOMMODATION AVAILABLE IN STANDARD MANUFACTURE FOR THE CONDUIT SIZE, WHICHEVER IS LESS.

EQUIPMENT GROUNDING AND LOAD SIDE BONDING CONDUCTORS SHALL BE SIZED PER THE CIRCUIT'S OVER-CURRENT PROTECTIVE DEVICE (OCPD) SIZE. WHERE THE UNGROUNDED CONDUCTORS ARE INCREASED IN SIZE ABOVE THE STANDARD FOR THE CIRCUIT'S OCPD, INCREASE THE GROUNDING CONDUCTOR PROPORTIONATELY TO THE CROSS-SECTIONAL AREA OF THE UNGROUNDED CONDUCTORS.

SERVICE MAIN BONDING JUMPERS AND GROUNDING ELECTRODE CONDUCTORS SHALL BE SIZED AND INSTALLED PER THE MINIMUM OF ALL APPLICABLE CODES AND REGULATIONS.

26 LIGHTNING PROTECTION:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS AND THE GROUNDING SPECIFICATIONS HEREIN.

THE LIGHTNING PROTECTION GROUNDING SYSTEM (LPGS) SHALL CONSIST OF BONDING ALL EQUIPMENT AND CONDUCTIVE STRUCTURES TO LOCALIZED SINGLE-POINT GROUNDING CONNECTIONS (TYPICALLY GROUND BARS) WHICH ARE BONDED TOGETHER AND TO AN IN-GROUND SYSTEM. IF THE LPGS IS ON A BUILDING, IT SHALL BE EFFECTIVELY BONDED TO THE ELECTRICAL SERVICE MAIN BONDING JUMPER AND TO ADDITIONAL IN-GROUND ELECTRODES AS MAY BE REQUIRED OR INDICATED. IF THE LPGS IS ON A DEDICATED COMMUNICATION SITE, ALL EQUIPMENT AREAS AND TOWERS SHALL EACH HAVE THEIR OWN IN-GROUND RING WITH EVERY RING BONDED TOGETHER, AND ALL CONDUCTIVE STRUCTURES IN CLOSE PROXIMITY (FENCES, ICE BRIDGES, ISOLATED EQUIPMENT, ETC.) ALSO BONDED TO PROVIDE A COMMON ELECTRICAL EQUIPOTENTIAL SYSTEM FOR ALL CONDUCTIVE ELEMENTS AND STRUCTURES.

CONDUCTORS:

- MIN #2 AWG SOLID BARE TINNED COPPER (SBTC) FOR ALL IN-GROUND CONDUCTORS.
- MIN #2 AWG COPPER GREEN STRANDED FOR BONDING STRUCTURES, AND FOR INTER-SYSTEM BONDING OF INDIVIDUAL ELEMENTS SUCH AS GROUND BAR TO GROUND BAR.
- MIN #6 AWG COPPER GREEN STRANDED OR ALL EQUIPMENT BONDING.
- INSTALL ALL IN-GROUND CONDUCTORS IN THE SAME HORIZONTAL PLANE OR IN A DOWNWARD DIRECTION AWAY FROM THE TOWER AND EQUIPMENT AREAS.
- AVOID LONG RUNS. MAKE DIRECT RUNS AS MUCH AS POSSIBLE.
- PLACE THROUGH NON-METALLIC SLEEVES WHEN PASSING THROUGH FLOORS, WALLS, CEILINGS, AND SIMILAR STRUCTURES.
- MAKE ALL CONNECTIONS IN CONTACT WITH EARTH WITH EXOTHERMIC WELDING. MAKE ALL OTHER CONNECTIONS WITH EXOTHERMIC WELDING, IRREVERSIBLE COMPRESSION CONNECTORS, OR LISTED COMPRESSION TWO-HOLE LUGS.
- INSTALL ALL CONDUCTORS WITH A MINIMUM 18 INCH BEND RADIUS AND NO BEND LONGER THAN A 90 DEGREE ARC. ALL BENDS SHALL BE HORIZONTAL, OR DOWNWARD TOWARDS EARTH.
- ALL CONDUCTORS PASSING FROM ABOVE-GROUND TO IN-GROUND CONNECTIONS, WHERE EXPOSED, SHALL BE COVERED AND PROTECTED WITH A NON-METALLIC CONDUIT SEALED AT BOTH ENDS.
- IF 2 OR MORE IN-GROUND CONDUCTORS ARE IN THE SAME PATH (2 RINGS OVERLAPPING, BONDING FOLLOWING ANOTHER RING OR RADIAL, OR SIMILAR), COMBINE WITH A SHARED SINGLE CONDUCTOR.

EQUIPMENT AND TOWER GROUND RINGS SHALL BE:

- BONDED TO ANY CONDUCTIVE OBJECT OR STRUCTURE WITHIN 5 FEET OF EQUIPMENT GROUND RINGS AND WITHIN 20 FEET OF TOWER GROUND RINGS.
- INSTALLED MINIMUM 18 INCHES FROM FOUNDATIONS, FOOTINGS, AND SIMILAR.

INSTALL ALL IN-GROUND RINGS, RADIALS, BONDS CONNECTING THEM, AND ALL SIMILAR GROUNDING:

- MIN 30 INCHES BELOW GRADE, OR 6 INCHES BELOW THE FROST LINE, WHICHEVER IS GREATER DEPTH.
- MIN 2 FEET FROM FOUNDATIONS, FOOTINGS, OTHER GROUNDING SYSTEMS, AND SIMILAR STRUCTURES, EXCEPT WHEN MAKING A BOND TO ANY OF THESE STRUCTURES. DO NOT BOND TO FOUNDATION INTERNAL REINFORCEMENT.

ALL EQUIPMENT GROUPED IN A COMMON AREA, COMPOUND, STRUCTURE, OR SIMILAR SHALL BE BONDED TO A SINGLE-POINT GROUND, PREFERABLY AN ISOLATED GROUND BAR. BOND THE GROUND BAR TO THE SYSTEM WITH MINIMUM SINGLE BONDING CONDUCTOR. IF BONDING TO AN IN-GROUND RING, INSTALL 2 BONDING CONDUCTORS MINIMUM WITH EACH CONDUCTOR INSTALLED DIRECTIONALLY AWAY FROM EACH OTHER AND PARALLEL TO THE IN-GROUND CONDUCTOR, WITH NO TEE CONNECTIONS.

TOWER GROUNDING:

- EACH TOWER LEG SHALL BE BONDED TO ITS RING. SINGLE-LEGGED TOWERS, OR MONOPOLES, SHALL HAVE 2 BONDS ON OPPOSITE SIDES.
- BOND TO TOWER BASE, NOT TO VERTICAL TOWER STRUCTURE, AWAY FROM TOWER MOUNTING HARDWARE.
- EACH BOND SHALL HAVE A CORRESPONDING GROUND ROD ON THE RING.
- EACH BOND SHALL CONSIST OF 2 CONDUCTORS FROM THE TOWER TO ITS RING WITH EACH CONDUCTOR DIRECTED IN OPPOSITE DIRECTIONS WITH A PARALLEL CONNECTION ON THE RING ON OPPOSITE SIDES OF THE GROUND ROD.

EQUIPMENT AREA GROUNDING:

- COMMUNICATION AREAS ON EARTH SHALL HAVE A GROUND RING.
- BOND ALL EQUIPMENT TO A SINGLE-POINT GROUND (GROUND BAR).
- BOND THE EQUIPMENT SINGLE-POINT GROUND TO THE EQUIPMENT GROUND RING WITH MINIMUM 2 CONDUCTORS DIRECTED IN OPPOSITE DIRECTIONS WITH PARALLEL CONNECTIONS ON THE RING.
- IF EQUIPMENT IS ENCLOSED IN A SHELTER:
- IF THE SHELTER IS CONSIDERED TO BE EXPOSED TO A DIRECT LIGHTNING STRIKE, INSTALL A BUILDING LIGHTNING PROTECTION SYSTEM PER APPLICABLE VERSION OF NFPA 780.
- BOND ALL FIXED CONDUCTIVE BUILDING COMPONENTS TOGETHER AND TO THE BUILDING RING GROUND AT THE CORNERS. THIS IS TYPICALLY CALLED THE HALO GROUND. DO NOT BOND EQUIPMENT TO THE HALO GROUND.
- BOND ALL EQUIPMENT TOGETHER TO A SINGLE-POINT OR INTERIOR EQUIPMENT RING GROUND (IEGR). BOND THE SINGLE-POINT OR IEGR TO THE EXTERNAL EQUIPMENT RING GROUND.
- PLACE GROUND RODS AT THE EQUIPMENT GROUND RING CORNERS.

GROUND RODS:

- SEPARATION SPACE BETWEEN ANY 2 GROUND RODS SHALL BE NO CLOSER THAN THEIR DEPTH. THIS APPLIES TO ALL RODS IN THE COMPLETE SYSTEM.
- DRIVE VERTICALLY IN UNDISTURBED SOIL WITH THE TOP AT SAME DEPTH AS THE IN-GROUND CONDUCTOR. IF NOT POSSIBLE TO INSTALL VERTICALLY, PLACE AS CLOSE TO VERTICAL AS POSSIBLE AND IN A DIRECTION AWAY FROM THE NEAREST ABOVE-GROUND CONDUCTIVE ELEMENT (TOWER, EQUIPMENT, ETC.).

RADIALS (TYP. NEW DEDICATED COMMUNICATION SITES):

- WHERE FEASIBLE WITH ENOUGH SPACE AVAILABLE, INSTALL A MINIMUM OF 4, MAXIMUM 10 RING RADIALS.
- EACH RADIAL'S LENGTH SHALL BE MIN 20 FT, MAX 80 FT.
- EXTEND RADIALS PERPENDICULAR FROM RINGS IN AS STRAIGHT LINE AS POSSIBLE, AWAY FROM OTHER RING GROUNDS, RADIALS, BONDS, AND SIMILAR.
- A COMMON PRACTICE IS TO PLACE 4 RADIALS FROM THE TOWER RING TO THE 4 CORNERS OF THE AVAILABLE AREA.

AT A MINIMUM, BOND ALL COMPOUND CONDUCTIVE FENCE CORNER POSTS AND GATE POSTS TO THE LPGS. PREFERABLY, INSTALL A GROUND RING THAT FOLLOWS THE FENCE LINE, BONDING ALL POSTS TO THE RING.

27 ANTENNAS & CABLES:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.

THE CONTRACTOR SHALL FURNISH AND INSTALL ALL TRANSMISSION CABLES, JUMPERS, CONNECTORS, GROUNDING STRAPS, ANTENNAS, MOUNT AND HARDWARE. ALL MATERIALS SHALL BE INSPECTED BY THE CONTRACTOR FOR DAMAGE UPON DELIVERY. JUMPERS SHALL BE SUPPLIED AT ANTENNAS AND EQUIPMENT INSIDE SHELTER. COORDINATE LENGTH OF JUMPER CABLES WITH OWNER. COORDINATE AND VERIFY ALL OF THE MATERIALS TO BE PROVIDED WITH OWNER PRIOR TO SUBMITTING BID AND ORDERING MATERIALS.

AFTER INSTALLATION, THE TRANSMISSION LINE SYSTEM SHALL BE PIM / SWEEP TESTED FOR NEWER INSTALLATION AND DAMAGE WITH ANTENNAS CONNECTED. CONTRACTOR SHALL OBTAIN AND USE LATEST TESTING PROCEDURES FROM OWNER OR MANUFACTURER PRIOR TO BIDDING.

ANTENNA CABLES SHALL BE UNIQUELY COLOR-CODED AT THE ANTENNAS, BOTH SIDES OF EQUIPMENT SHELTER WALL, AND JUMPER CABLES AT THE EQUIPMENT.

THE CONTRACTOR SHALL FURNISH AND INSTALL ALL CONNECTORS, ASSOCIATED CABLE MOUNTING AND GROUNDING HARDWARE, WALL MOUNTS, STANDOFFS, AND ALL ASSOCIATED HARDWARE TO INSTALL ALL CABLES AND ANTENNAS TO THE MANUFACTURER'S AND OWNER'S SPECIFICATIONS.

ANTENNA CABLES SHALL BE FOAM DIELECTRIC COAXIAL CABLES AS FOLLOWS:

- BASE STATION ANTENNAS:
  - 7/8" DIAMETER FOR CABLE LENGTHS UP TO 100 FT.
  - 1-5/8" DIAMETER FOR CABLE LENGTHS GREATER THAN 100 FT.
  - GPS ANTENNAS:
  - 7/8" DIAMETER FOR CABLE LENGTHS UP TO 200 FT.
  - 1-5/8" DIAMETER FOR CABLE LENGTHS GREATER THAN 200 FT.

MINIMUM BENDING RADIUS FOR COAXIAL CABLES SHALL BE:

- 15 FT FOR 7/8" COAXIAL CABLES.
- 25 FT FOR 1-5/8" COAXIAL CABLES.

CABLE SHALL BE INSTALLED WITH A MINIMUM NUMBER OF BENDS WHERE POSSIBLE. CABLE SHALL NOT BE LEFT UNTERMINATED AND SHALL BE SEALED IMMEDIATELY AFTER BEING INSTALLED.

ALL EXTERIOR CABLE CONNECTIONS SHALL BE COVERED WITH A WATERPROOF SPLICING KIT.

CONTRACTOR SHALL VERIFY EXACT LENGTH AND DIRECTION OF TRAVEL IN FIELD PRIOR TO CONSTRUCTION.

CABLE SHALL BE FURNISHED AND INSTALLED WITHOUT SPLICES AND WITH CONNECTORS AT EACH END.

27 CABLE TRAY:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.

CABLE TRAY SHALL BE MADE OF EITHER CORROSION RESISTANT METAL OR WITH A CORROSION RESISTANT FINISH.

CABLE TRAY SHALL BE OF LADDER TRAY TYPE WITH FLAT COVER CLAMPED TO SIDE RAILS.

CABLE LADDER SHALL BE SIZED TO FIT ALL CABLES IN ACCORDANCE WITH NEC AND NEMA 11-15-84.

CABLE LADDER TRAYS SHALL BE NEMA CLASS 12A BY PW INDUSTRIES, INC. OR EQUAL.

CABLE LADDER TRAY SHALL BE SUPPORTED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

ALL WORKMANSHIP SHALL CONFORM TO THESE REQUIREMENTS AND ALL LOCAL CODES AND STANDARDS TO ENSURE SAFE AND ADEQUATE GROUNDING SYSTEM.

Cellco Partnership d/b/a
verizon
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

ALL-POINTS TECHNOLOGY CORPORATION
567 VAUXHALL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

CONSTRUCTION DOCUMENTS

NO	DATE	REVISION
0	06/18/21	FOR REVIEW: JRM
1	07/15/21	FOR FILING: JRM
2		
3		
4		
5		
6		

STATE OF CONNECTICUT MICHAEL TRODDEN 33313 LICENSED PROFESSIONAL ENGINEER

DESIGN PROFESSIONALS OF RECORD

PROF: MICHAEL S. TRODDEN P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION, P.C.
ADD: 567 VAUXHALL STREET EXT. SUITE 311 WATERFORD, CT 06385

OWNER: TOWN OF DEEP RIVER
ADDRESS: 174 MAIN STREET DEEP RIVER,CT 06417

DEEP RIVER WEST CT

SITE ADDRESS: 220 WINTHROP ROAD DEEP RIVER, CT 06417

APT FILING NUMBER: CT141_12320

DRAWN BY: DRA

DATE: 06/18/21 CHECKED BY: JRM

VZ PROJECT CODE: 20212234184

VZ LOCATION CODE: 467805

VZ FUZE ID: 16272117

SHEET TITLE:

NOTES& SPECIFICATIONS

SHEET NUMBER:

N-1

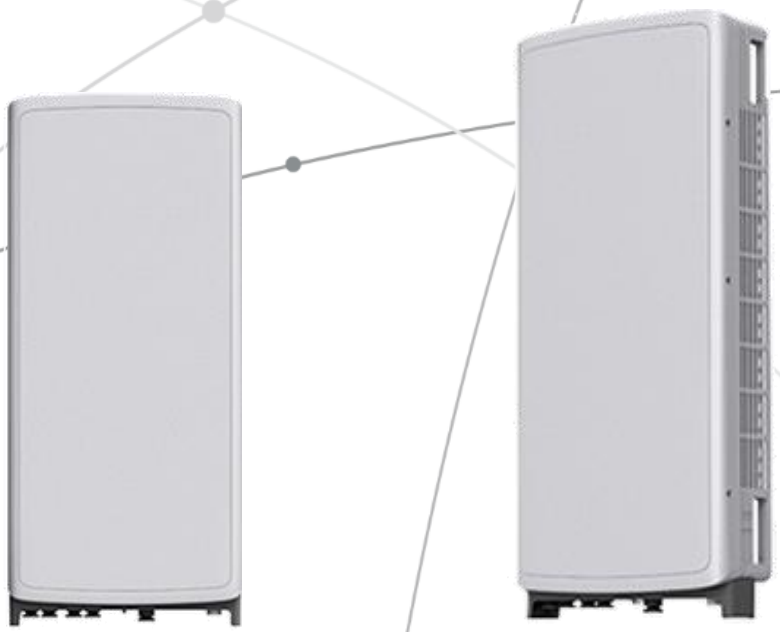
SAMSUNG

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

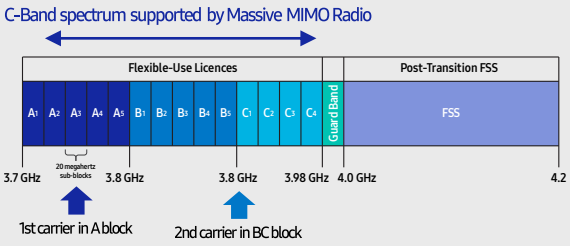


Points of Differentiation

Wide Bandwidth

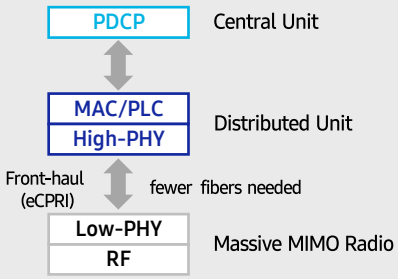
With capability to support up to 2 CC carrier configuration, Samsung C-Band massive MIMO Radio supports 200 MHz bandwidth in the C-Band spectrum.

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.

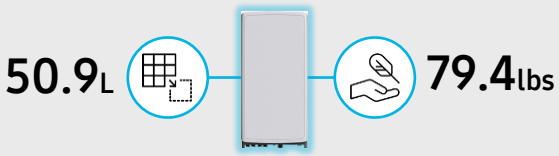
This helps operators reduce their CAPEX as they now need less products to cover the same area than before.

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

ATTACHMENT 3

	General	Power	Density					
Site Name: Deep River W								
Tower Height: Verizon @ 178ft								
CARRIER	**# OF CHAN.**	**WATTS ERP**	**HEIGHT**	**CALC. POWER DENS**	**FREQ.**	**MAX. PERMISS. EXP.**	**FRACTION MPE**	**Total**
*T-Mobile	4	938	160	1900	0.0569	1.0000	0.57%	
*T-Mobile	1	352	160	1900	0.0053	1.0000	0.05%	
*T-Mobile	2	1611	160	2100	0.0489	1.0000	0.49%	
*T-Mobile	2	789	160	600	0.0239	0.4000	0.60%	
*T-Mobile	2	433	160	700	0.0131	0.4667	0.28%	
*AT&T-UMTS	1	525	150	700	0.0091	0.4667	0.20%	
*AT&T-UMTS	1	249	150	850	0.0043	0.5667	0.08%	
*AT&T-LTE	1	249	150	850	0.0043	0.5667	0.08%	
*AT&T-UMTS	1	249	150	700	0.0043	0.4667	0.09%	
*AT&T-UMTS	1	249	150	2100	0.0043	1.0000	0.04%	
*AT&T-LTE	2	3664	150	1900	0.1271	1.0000	1.27%	
*AT&T-LTE	1	249	150	700	0.0043	0.4667	0.09%	
*Sprint	1	433	167	850	0.0060	0.5667	0.11%	
*Sprint	2	433	167	850	0.0120	0.5667	0.21%	
*Sprint	5	536	167	1900	0.0372	1.0000	0.37%	
*Sprint	2	1340	167	1900	0.0372	1.0000	0.37%	
*Sprint	8	640	167	2500	0.0710	1.0000	0.71%	
*VoiceStream	4	275	160	1930	0.0167	1.0000	0.17%	
VZW 700	**4**	**609**	**178**	**0.0028**	**751**	**0.5007**	**0.55%**	
VZW Cellular	**4**	**623**	**178**	**0.0028**	**874**	**0.5827**	**0.49%**	
VZW PCS	**4**	**1428**	**178**	**0.0065**	**1975**	**1.0000**	**0.65%**	
VZW AWS	**4**	**1530**	**178**	**0.0069**	**2120**	**1.0000**	**0.69%**	
VZW CBAND	**4**	**6531**	**178**	**0.0297**	**3730.05**	**1.0000**	**2.97%**	
								11.13%
* 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 180 ft Valmont Monopole

Customer Name: SBA Communications Corp

Customer Site Number: CT46130-A

Customer Site Name: Deep River-winthrop Rd

Carrier Name: Verizon (App#: 150984, V1)

Carrier Site ID / Name: 467805 / DEEP_RIVER_WEST_CT

Site Location: 220 Winthrop Rd

Deep River, Connecticut

Middlesex County

Latitude: 41.365872

Longitude: -72.474849

Exp.10/31/2021

05/21/2021

Analysis Result:

Max Structural Usage: 99.9% [Pass]

Max Foundation Usage: 88.0% [Pass]

Additional Usage Caused by New Mount/Mount Modification:

Report Prepared By: Younus Alkarawi

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

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Additional Usage Caused by New Mount/Mount Modification:

Report Prepared By: Younus Alkarawi

Introduction

The purpose of this report is to summarize the analysis results on the 180 ft Valmont 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	Original structural design report & permit drawings prepared by Valmont. Dated 10-27-2000. Order No 17593-98. CT750 Deep River Site. Project No F082. Previous structural report prepared by FDH Engineering, Inc. Dated 11-04-2013. Project No 13SFRX1400.
Foundation Drawing	Original foundation drawings prepared by Valmont Industries, Inc. Dated 08-11-1998. Project No 2633. Order No 17593-98. Drawing No 2633-F.
Geotechnical Report	Geotechnical report prepared by TECTONIC Engineering Consultants, P.C. Dated 07-13-1998. Work Order No 1170.C750.
Modification Drawings	
Mount Analysis	

Analysis Criteria

The comprehensive analysis was performed in accordance with the requirements and stipulations of the 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:	123.0 mph (3-Sec. Gust) (Ultimate wind speed)
Wind Speed with Ice:	50 mph (3-Sec. Gust) with 1" radial ice concurrent
Service Load Wind Speed:	60 mph + 0" Radial ice
Standard/Codes:	TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	
Risk Category:	
Topographic Category:	
Crest Height:	0 ft
Seismic Parameters:	

This structural analysis is based upon the tower being classified as a Risk Category 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
			JMA MX06FRO660-03 - Panel	Platform w/ Handrails	Hybrid	Verizon
			Samsung B5/B13 RRH BR04C			
			Samsung B2/B66A RRH BR049			
			Raycap RRFDS-6627-PF48			
			RFS APXVTM14-C-I20 - Panel	Platform w/Handrails + Sitepro PRK-1245L + handrail kit + Sitepro	Hybrid	Sprint Nextel
			Commscope NNVV-65B-R4 - Panel			
			ALU 1900 Mhz			
			ALU 800 Mhz			
			ALU TD-RRH8x20-25			
			EMS - RR90-17-02VDPL2/-R - Panel	(3) T-Arms w/ Reinforcements	Coax (1) 1 5/8" Fiber	T-Mobile
		3	RFS - APXVAARR24_43-U-NA20 - Panel			
			Ericsson - KRY 112 489/2 - TMA			
			Ericsson - KRY 112 144/2 - TMA			
			Ericsson - Radio 4449 B71+B12 - RRU			
			Powerwave 7770	Low Profile Platform w/ Handrail kit HRK-12	(1) 0.39" Fiber	
			Commscope SBNHH-1D65A			
			Cci HPA-65R-BUU-H6			
			Cci DMP65R-BU4DA			
			Cci DMP65R-BU6DA			
			Powerwave LGP21401			
			Ericsson RRUS 8843 B2 B66A			
			Ericsson RRUS 4449 B5/B12			
			Raycap DC-6-48-60-18-8F			
		3	JMA Wireless MX08FRO665-21 - Panel	platform w/HRK Sitepro1 SNP8HR-3XX	Hybrid	Dish Wireless
			Fujitsu TA08025-B605 RRU			
			Fujitsu TA08025-B604 RRU			
			Raycap RDIDC-9181-PF-48 OVP			

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
			JMA MX06FRO660-03 - Panel	Platform w/ Handrails w/	Hybrid	Verizon
			Samsung VZS01 - Panel			
			Samsung B5/B13 RRH BR04C			
			Samsung B2/B66A RRH BR049			
			Raycap RRFDS-6627-PF48-OVP			

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

Analysis Results

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

	Pole shafts	Anchor Bolts	Base Plate
Max. Usage:			
Pass/Fail	**Pass**	**Pass**	**Pass**

Foundations

	Moment (Kip-Ft)	Shear (Kips)	Axial (Kips)
Analysis Reactions			

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

Service Load 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 1.9267 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

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

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.

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 . 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, should be notified in writing and the applicable minimum values provided by the client.

The configuration of the existing mounts, antennas, coax and other appurtenances were supplied by the customer for the current structural analysis. 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, should be notified immediately to evaluate the effect of the discrepancy on the analysis results.

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.

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

Usage Diagram - Max Ratio 99.90% at 0.0ft

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021
Site Name:	Deep River-winthrop Rd	**Exposure:**	C	
Height:	180.00 (ft)	**Gh:**	1.1	
Base Elev:	0.000 (ft)			Page: 1

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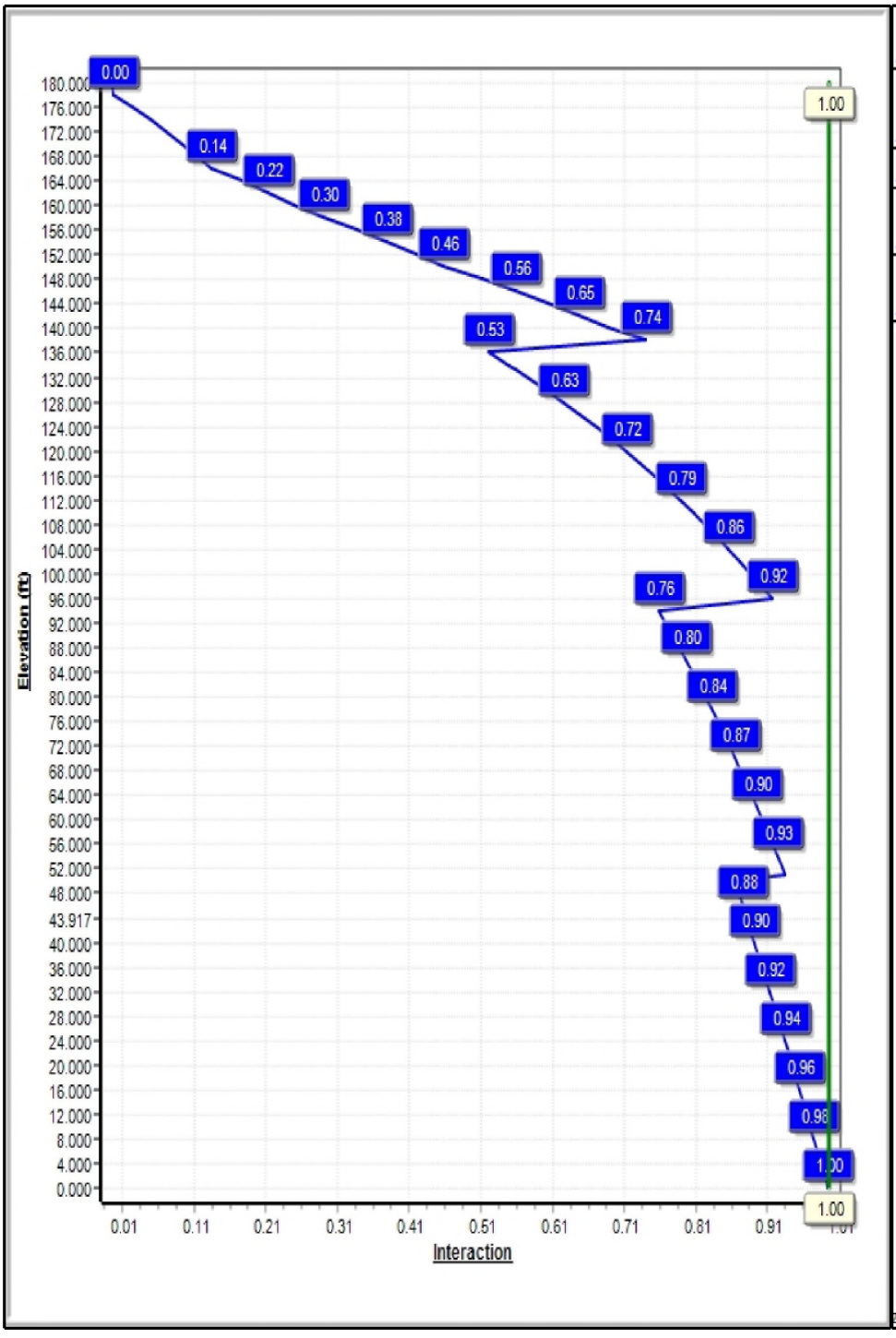
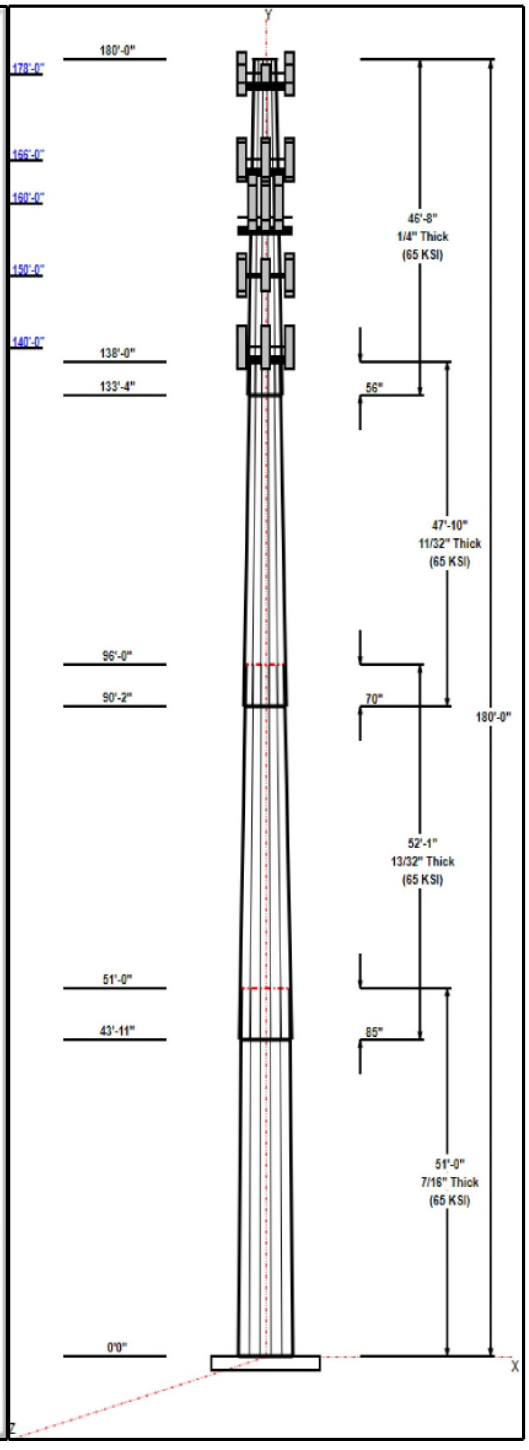
Dead Load Factor:	1.20	**Iterations:**	29
Wind Load Factor:	1.00		

Load Case : 1.2D + 1.0W 123 mph Wind





Structure: CT46130-A-SBA

Type: Tapered
Site Name: Deep River-winthrop Rd
Height: 180.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 12 Sided
Taper: 0.24800

5/21/2021

Tower Engineering Solutions

Shaft Properties

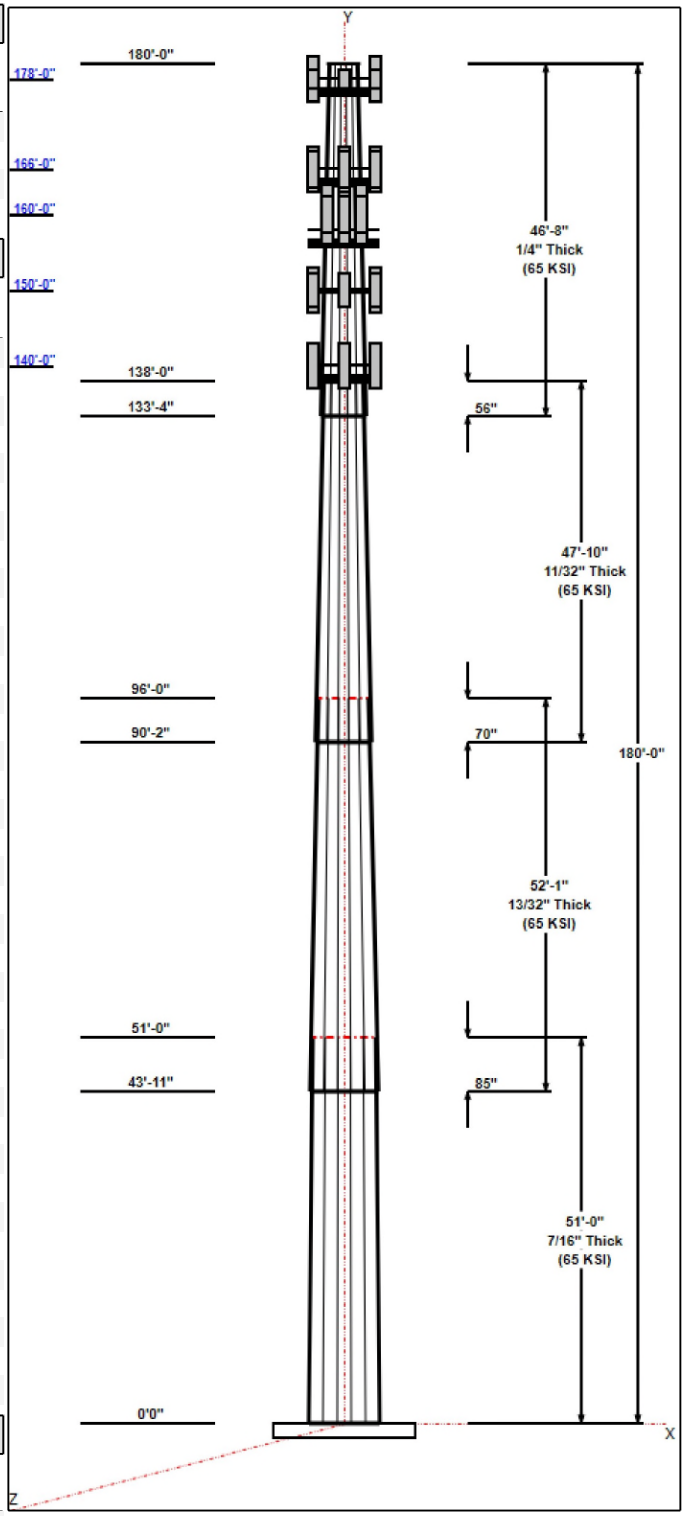
Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	51.00	49.35	62.00	0.438		0.24800	65
2	52.08	39.00	51.92	0.406	Slip	0.24800	65
3	47.83	29.28	41.14	0.344	Slip	0.24800	65
4	46.67	19.36	30.93	0.250	Slip	0.24800	65

Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
178.00	178.00	3	Samsung B5/B13 RRH	Verizon
178.00	178.00	1	Raycap	Verizon
178.00	178.00	1	Platform w/ Handrails w/	Verizon
178.00	178.00	6	JMA MX06FRO660-03	Verizon
178.00	178.00	3	Samsung B2/B66A RRH	Verizon
178.00	178.00	3	Samsung VZS01	Verizon
166.00	166.00	1	Platform w/ Hand Rails	Sprint Nextel
166.00	166.00	3	RFS APXVTM14-C-I20	Sprint Nextel
166.00	166.00	3	Commscope	Sprint Nextel
166.00	166.00	3	ALU 1900 Mhz	Sprint Nextel
166.00	166.00	6	ALU 800 Mhz	Sprint Nextel
166.00	166.00	3	ALU TD-RRH8x20-25	Sprint Nextel
166.00	166.00	1	Sitepro	Sprint Nextel
166.00	166.00	1	Sitepro	Sprint Nextel
160.00	160.00	3	APXVAARR24_43-U-NA20	T-Mobile
160.00	160.00	3	KRY 112 489/2	T-Mobile
160.00	160.00	3	KRY 112 144/2	T-Mobile
160.00	160.00	3	4449 B71+B12	T-Mobile
160.00	160.00	3	RR90-17-00VDPL2/-R	T-Mobile
158.00	158.00	3	T-Arms	T-Mobile
158.00	158.00	1	T-Arm Kit	T-Mobile
158.00	158.00	1	V-Brace	T-Mobile
150.00	150.00	2	Cci HPA-65R-BUU-H6	AT&T
150.00	150.00	1	SBNHH-1D65A	AT&T
150.00	150.00	3	4449 B5/B12	AT&T
150.00	150.00	2	DMP65R-BU6DA	AT&T
150.00	150.00	3	Powerwave 7770	AT&T
150.00	150.00	1	DMP65R-BU4DA	AT&T
150.00	150.00	6	Powerwave LGP21401	AT&T
150.00	150.00	3	B2 B66A 8843	AT&T
150.00	150.00	1	Raycap DC6-48-60-18-8F	AT&T
150.00	150.00	1	Platform w/ Hand Rail	AT&T
140.00	140.00	3	JMA Wireless	Dish Wireless
140.00	140.00	1	Sitepro1 SNP8HR-3XX	Dish Wireless
140.00	140.00	3	Fujitsu TA08025-B605	Dish Wireless
140.00	140.00	3	Fujitsu TA08025-B604	Dish Wireless
140.00	140.00	1	Raycap	Dish Wireless

Linear Appurtenances

Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
0.00	180.00	Outside	Safety Cable	
0.00	180.00	Outside	Step bolts (ladder)	
3.00	178.00	Inside	1 5/8" Hybrid	Verizon
3.00	166.00	Inside	1-1/4" Hybrid	Sprint Nextel
3.00	160.00	Inside	1 5/8" Coax	T-Mobile



3.00	160.00	Inside	1 5/8" Fiber	T-Mobile
3.00	150.00	Inside	0.39" Fiber	AT&T
3.00	150.00	Inside	1 1/4" Coax	AT&T
3.00	150.00	Inside	1" DC	AT&T
3.00	140.00	Inside	1.75" Hybrid	Dish Wireless

Anchor Bolts

Qty	Specifications	Grade (ksi)	Arrangement
20	2.25" 18J	75.0	Radial

Base Plate

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
2.7500	76.7	60.0	Polygon

Reactions

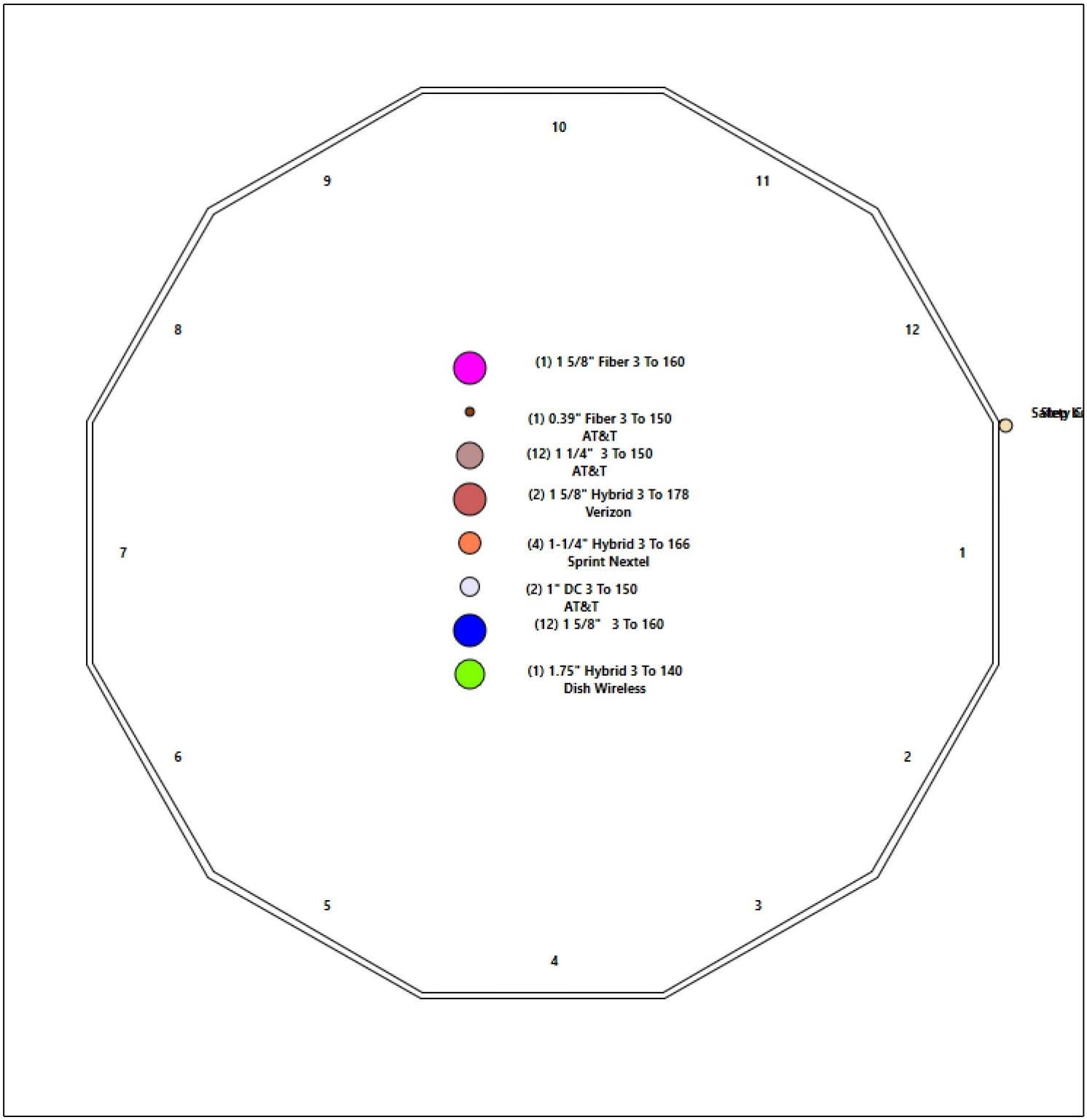
Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.0W 123 mph Wind	6341.9	50.9	63.5
0.9D + 1.0W 123 mph Wind	6250.4	50.9	47.6
1.2D + 1.0Di + 1.0Wi 50 mph Wind	1438.4	11.2	85.5
1.2D + 1.0Ev + 1.0Eh	132.8	0.8	66.0
0.9D + 1.0Ev + 1.0Eh	130.9	0.8	50.0
1.0D + 1.0W 60 mph Wind	1341.0	10.8	53.0

Structure: CT46130-A-SBA - Coax Line Placement

Type: Monopole
Site Name: Deep River-winthrop Rd
Height: 180.00 (ft)

5/21/2021

Tower Engineering Solutions



Shaft Properties

Structure:	CT46130-A-SBA		**Code:**	EIA/TIA-222-H	5/21/2021
Site Name:	Deep River-winthrop Rd		**Exposure:**	C	
Height:	180.00 (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	12	51.000	0.4375	65		0.00	13,505
2	12	52.083	0.4063	65	Slip	85.00	10,446
3	12	47.833	0.3438	65	Slip	70.00	6,281
4	12	46.667	0.2500	65	Slip	56.00	3,183
					Total Shaft Weight:		**33,414**

	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	62.00	0.00	86.73	41953.54	35.83	141.71	49.35	51.00	68.91	21044.2	28.08	112.8	0.248000
2	51.92	43.92	67.39	22826.23	32.10	127.81	39.00	96.00	50.49	9601.48	23.58	96.01	0.248000
3	41.14	90.17	45.15	9591.86	29.92	119.68	29.28	138.00	32.02	3421.62	20.68	85.17	0.248000
4	30.93	133.3	24.70	2968.17	31.01	123.73	19.36	180.00	15.38	717.07	18.61	77.44	0.248000

Load Summary

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (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	178.00	Samsung B5/B13 RRH BR04C	3	70.30	1.88	0.50	109.57	2.236	0.50	0.00	0.00
2	178.00	Raycap RRFDS-6627-PF48	1	32.00	2.61	0.89	82.34	3.046	0.89	0.00	0.00
3	178.00	Platform w/ Handrails w/ 91900314	1	2202.20	40.00	1.00	3766.06	54.203	1.00	0.00	0.00
4	178.00	JMA MX06FRO660-03	6	60.00	9.87	0.87	232.86	10.736	0.87	0.00	0.00
5	178.00	Samsung B2/B66A RRH BR049	3	84.40	1.88	0.50	168.63	2.475	0.50	0.00	0.00
6	178.00	Samsung VZS01	3	87.10	4.30	0.69	157.26	4.889	0.69	0.00	0.00
7	166.00	Platform w/ Hand Rails	1	2000.00	40.00	1.00	3410.39	54.104	1.00	0.00	0.00
8	166.00	RFS APXVTM14-C-I20	3	56.20	6.34	0.77	157.19	7.074	0.77	0.00	0.00
9	166.00	Commscope NNVV-65B-R4	3	77.40	12.27	0.74	269.71	13.251	0.74	0.00	0.00
10	166.00	ALU 1900 Mhz	3	44.00	2.30	0.50	117.52	2.867	0.50	0.00	0.00
11	166.00	ALU 800 Mhz	6	53.00	2.20	0.50	102.81	2.881	0.50	0.00	0.00
12	166.00	ALU TD-RRH8x20-25	3	70.00	4.05	0.50	139.42	4.583	0.50	0.00	0.00
13	166.00	Sitepro	1	230.00	6.70	1.00	446.26	11.425	1.00	0.00	0.00
14	166.00	Sitepro	1	406.61	7.00	1.00	731.58	11.607	1.00	0.00	0.00
15	160.00	APXVAARR24_43-U-NA20	3	128.00	20.24	0.70	396.79	21.499	0.70	0.00	0.00
16	160.00	KRY 112 489/2	3	15.40	0.65	0.50	27.22	1.061	0.50	0.00	0.00
17	160.00	KRY 112 144/2	3	15.40	0.41	0.50	27.22	0.669	0.50	0.00	0.00
18	160.00	4449 B71+B12	3	70.00	1.65	0.50	112.02	1.998	0.50	0.00	0.00
19	160.00	RR90-17-00VDPL2/-R	3	13.50	4.36	0.68	73.39	4.998	0.68	0.00	0.00
20	158.00	T-Arms	3	350.00	8.00	0.75	513.74	12.678	0.75	0.00	0.00
21	158.00	T-Arm Kit	1	500.00	16.50	1.00	897.64	27.306	1.00	0.00	0.00
22	158.00	V-Brace	1	197.00	6.30	1.00	381.32	10.721	1.00	0.00	0.00
23	150.00	Cci HPA-65R-BUU-H6	2	51.00	9.66	0.85	207.49	10.552	0.85	0.00	0.00
24	150.00	SBNHH-1D65A	1	33.50	5.88	1.00	132.07	6.584	1.00	0.00	0.00
25	150.00	4449 B5/B12	3	71.00	1.65	0.50	106.59	1.956	0.50	0.00	0.00
26	150.00	DMP65R-BU6DA	2	79.40	12.71	0.72	275.76	13.686	0.72	0.00	0.00
27	150.00	Powerwave 7770	3	35.00	5.51	0.73	118.38	6.195	0.73	0.00	0.00
28	150.00	DMP65R-BU4DA	1	79.40	8.28	0.72	275.76	8.916	0.72	0.00	0.00
29	150.00	Powerwave LGP21401 TMA's	6	14.10	0.82	0.50	30.77	1.174	0.50	0.00	0.00
30	150.00	B2 B66A 8843	3	70.00	1.64	0.50	100.66	1.984	0.50	0.00	0.00
31	150.00	Raycap DC6-48-60-18-8F	1	31.80	1.81	0.67	73.02	2.385	0.67	0.00	0.00
32	150.00	Platform w/ Hand Rail	1	1600.00	35.00	1.00	2999.90	55.361	1.00	0.00	0.00
33	140.00	JMA Wireless MX08FRO665-21	3	64.50	12.49	0.74	257.08	13.460	0.74	0.00	0.00
34	140.00	Sitepro1 SNP8HR-3XX	1	1876.00	37.59	1.00	3089.90	68.863	1.00	0.00	0.00
35	140.00	Fujitsu TA08025-B605 RRU	3	75.00	1.96	0.50	109.63	2.331	0.50	0.00	0.00
36	140.00	Fujitsu TA08025-B604 RRU	3	63.90	1.96	0.50	97.42	2.331	0.50	0.00	0.00
37	140.00	Raycap RDIDC-9181-PF-48 OVP	1	21.90	2.01	0.79	57.15	2.386	0.79	0.00	0.00
		Totals:	**92**	**14,617.11**			**28,686.82**				

Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed
0.00	180.00	(1) Safety Cable	0.00	Outside
0.00	180.00	(1) Step bolts (ladder)	0.00	Outside
3.00	178.00	(2) 1 5/8" Hybrid	0.00	Inside
3.00	166.00	(4) 1-1/4" Hybrid	0.00	Inside

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)
3.00	160.00	(12) 1 5/8" Coax			0.00	Inside					
3.00	160.00	(1) 1 5/8" Fiber			0.00	Inside					
3.00	150.00	(1) 0.39" Fiber			0.00	Inside					
3.00	150.00	(12) 1 1/4" Coax			0.00	Inside					
3.00	150.00	(2) 1" DC			0.00	Inside					
3.00	140.00	(1) 1.75" Hybrid			0.00	Inside					

Shaft Section Properties

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 8	

Tower Engineering Solutions

Increment Length: **2 (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	62.000	86.726	41953.5	35.83	141.71	65.6	1307.	0.0
2.00		0.4375	61.504	86.027	40947.6	35.52	140.58	66.0	1286.	587.8
4.00		0.4375	61.008	85.329	39958.0	35.22	139.45	66.3	1265.	583.1
6.00		0.4375	60.512	84.630	38984.4	34.92	138.31	66.6	1244.	578.3
8.00		0.4375	60.016	83.931	38026.7	34.61	137.18	67.0	1224.	573.6
10.00		0.4375	59.520	83.232	37084.8	34.31	136.05	67.3	1203.	568.8
12.00		0.4375	59.024	82.534	36158.7	34.01	134.91	67.6	1183.	564.1
14.00		0.4375	58.528	81.835	35248.1	33.70	133.78	68.0	1163.	559.3
16.00		0.4375	58.032	81.136	34352.9	33.40	132.64	68.3	1143.	554.6
18.00		0.4375	57.536	80.438	33472.9	33.09	131.51	68.6	1123.	549.8
20.00		0.4375	57.040	79.739	32608.2	32.79	130.38	69.0	1104.	545.0
22.00		0.4375	56.544	79.040	31758.5	32.49	129.24	69.3	1085.	540.3
24.00		0.4375	56.048	78.341	30923.6	32.18	128.11	69.6	1065.	535.5
26.00		0.4375	55.552	77.643	30103.5	31.88	126.98	69.9	1046.	530.8
28.00		0.4375	55.056	76.944	29298.1	31.58	125.84	70.3	1028.	526.0
30.00		0.4375	54.560	76.245	28507.1	31.27	124.71	70.6	1009.	521.3
32.00		0.4375	54.064	75.546	27730.5	30.97	123.57	70.9	990.9	516.5
34.00		0.4375	53.568	74.848	26968.2	30.66	122.44	71.3	972.6	511.8
36.00		0.4375	53.072	74.149	26219.9	30.36	121.31	71.6	954.4	507.0
38.00		0.4375	52.576	73.450	25485.6	30.06	120.17	71.9	936.4	502.2
40.00		0.4375	52.080	72.751	24765.2	29.75	119.04	72.3	918.6	497.5
42.00		0.4375	51.584	72.053	24058.4	29.45	117.91	72.6	901.0	492.7
43.92	Bot - Section 2	0.4375	51.109	71.383	23393.9	29.16	116.82	72.9	884.3	467.7
44.00		0.4375	51.088	71.354	23365.3	29.15	116.77	72.9	883.5	39.3
46.00		0.4375	50.592	70.655	22685.6	28.84	115.64	73.3	866.2	939.4
48.00		0.4375	50.096	69.956	22019.2	28.54	114.51	73.6	849.1	930.3
50.00		0.4375	49.600	69.258	21365.9	28.23	113.37	73.9	832.2	921.1
51.00	Top - Section 1	0.4063	50.165	65.090	20569.8	30.94	123.48	0.0	0.0	457.1
52.00		0.4063	49.917	64.766	20263.8	30.78	122.87	71.1	784.2	220.9
54.00		0.4063	49.421	64.117	19660.8	30.45	121.65	71.5	768.5	438.6
56.00		0.4063	48.925	63.468	19070.0	30.13	120.43	71.9	753.0	434.1
58.00		0.4063	48.429	62.819	18491.1	29.80	119.21	72.2	737.6	429.7
60.00		0.4063	47.933	62.170	17924.0	29.47	117.99	72.6	722.4	425.3
62.00		0.4063	47.437	61.521	17368.7	29.14	116.77	72.9	707.3	420.9
64.00		0.4063	46.941	60.873	16824.9	28.82	115.55	73.3	692.4	416.5
66.00		0.4063	46.445	60.224	16292.6	28.49	114.32	73.6	677.7	412.1
68.00		0.4063	45.949	59.575	15771.7	28.16	113.10	74.0	663.1	407.6
70.00		0.4063	45.453	58.926	15262.0	27.84	111.88	74.4	648.7	403.2
72.00		0.4063	44.957	58.277	14763.4	27.51	110.66	74.7	634.4	398.8
74.00		0.4063	44.461	57.628	14275.7	27.18	109.44	75.1	620.3	394.4
76.00		0.4063	43.965	56.980	13799.0	26.85	108.22	75.4	606.3	390.0
78.00		0.4063	43.469	56.331	13332.9	26.53	107.00	75.8	592.5	385.6
80.00		0.4063	42.973	55.682	12877.5	26.20	105.78	76.1	578.9	381.2
82.00		0.4063	42.477	55.033	12432.6	25.87	104.56	76.5	565.4	376.7
84.00		0.4063	41.981	54.384	11998.0	25.55	103.34	76.9	552.1	372.3
86.00		0.4063	41.485	53.735	11573.7	25.22	102.12	77.2	539.0	367.9
88.00		0.4063	40.989	53.087	11159.5	24.89	100.89	77.6	526.0	363.5
90.00		0.4063	40.493	52.438	10755.3	24.56	99.67	77.9	513.1	359.1
90.17	Bot - Section 3	0.4063	40.451	52.384	10722.0	24.54	99.57	78.0	512.1	29.7
92.00		0.4063	39.997	51.789	10361.0	24.24	98.45	78.3	500.4	605.1

Increment Length: **2 (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)
94.00		0.4063	39.501	51.140	9976.4	23.91	97.23	78.6	487.9	652.3
96.00	Top - Section 2	0.3438	39.692	43.554	8607.2	28.80	115.47	0.0	0.0	644.1
98.00		0.3438	39.196	43.005	8285.8	28.41	114.02	73.7	408.4	294.5
100.00		0.3438	38.700	42.456	7972.5	28.02	112.58	74.2	398.0	290.8
102.00		0.3438	38.204	41.907	7667.2	27.64	111.14	74.6	387.7	287.1
104.00		0.3438	37.708	41.358	7369.8	27.25	109.70	75.0	377.6	283.3
106.00		0.3438	37.212	40.809	7080.1	26.86	108.25	75.4	367.6	279.6
108.00		0.3438	36.716	40.260	6798.2	26.48	106.81	75.8	357.7	275.9
110.00		0.3438	36.220	39.711	6523.9	26.09	105.37	76.3	348.0	272.1
112.00		0.3438	35.724	39.162	6257.0	25.70	103.92	76.7	338.4	268.4
114.00		0.3438	35.228	38.613	5997.5	25.32	102.48	77.1	328.9	264.6
116.00		0.3438	34.732	38.063	5745.3	24.93	101.04	77.5	319.6	260.9
118.00		0.3438	34.236	37.514	5500.3	24.54	99.60	77.9	310.4	257.2
120.00		0.3438	33.740	36.965	5262.3	24.16	98.15	78.4	301.3	253.4
122.00		0.3438	33.244	36.416	5031.3	23.77	96.71	78.8	292.4	249.7
124.00		0.3438	32.748	35.867	4807.2	23.38	95.27	79.2	283.6	246.0
126.00		0.3438	32.252	35.318	4589.8	23.00	93.82	79.6	274.9	242.2
128.00		0.3438	31.756	34.769	4379.1	22.61	92.38	80.1	266.4	238.5
130.00		0.3438	31.260	34.220	4174.9	22.22	90.94	80.5	258.0	234.8
132.00		0.3438	30.764	33.671	3977.2	21.84	89.50	80.9	249.7	231.0
133.33	Bot - Section 4	0.3438	30.433	33.305	3848.9	21.58	88.53	81.2	244.3	151.9
134.00		0.3438	30.268	33.122	3785.8	21.45	88.05	81.3	241.6	131.2
136.00		0.3438	29.772	32.573	3600.6	21.06	86.61	81.7	233.6	389.4
138.00	Top - Section 3	0.2500	29.776	23.768	2644.8	29.77	119.10	0.0	0.0	382.9
140.00		0.2500	29.280	23.369	2513.8	29.24	117.12	72.8	165.9	160.4
142.00		0.2500	28.784	22.970	2387.1	28.71	115.14	73.4	160.2	157.7
144.00		0.2500	28.288	22.571	2264.8	28.18	113.15	74.0	154.7	155.0
146.00		0.2500	27.792	22.171	2146.7	27.64	111.17	74.6	149.2	152.2
148.00		0.2500	27.296	21.772	2032.8	27.11	109.18	75.1	143.9	149.5
150.00		0.2500	26.800	21.373	1923.0	26.58	107.20	75.7	138.6	146.8
152.00		0.2500	26.304	20.973	1817.2	26.05	105.22	76.3	133.5	144.1
154.00		0.2500	25.808	20.574	1715.4	25.52	103.23	76.9	128.4	141.4
156.00		0.2500	25.312	20.175	1617.4	24.99	101.25	77.5	123.4	138.7
158.00		0.2500	24.816	19.776	1523.3	24.45	99.26	78.0	118.6	135.9
160.00		0.2500	24.320	19.376	1432.9	23.92	97.28	78.6	113.8	133.2
162.00		0.2500	23.824	18.977	1346.1	23.39	95.30	79.2	109.2	130.5
164.00		0.2500	23.328	18.578	1262.9	22.86	93.31	79.8	104.6	127.8
166.00		0.2500	22.832	18.179	1183.2	22.33	91.33	80.4	100.1	125.1
168.00		0.2500	22.336	17.779	1107.0	21.80	89.34	80.9	95.7	122.4
170.00		0.2500	21.840	17.380	1034.0	21.26	87.36	81.5	91.5	119.6
172.00		0.2500	21.344	16.981	964.4	20.73	85.38	81.9	87.3	116.9
174.00		0.2500	20.848	16.581	898.0	20.20	83.39	81.9	83.2	114.2
176.00		0.2500	20.352	16.182	834.6	19.67	81.41	81.9	79.2	111.5
178.00		0.2500	19.856	15.783	774.4	19.14	79.42	81.9	75.3	108.8
180.00		0.2500	19.360	15.384	717.1	18.61	77.44	81.9	71.6	106.1
										33413.9

Wind Loading - Shaft

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (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	

Load Case: 1.2D + 1.0W 123 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 29

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	31.009	34.11	603.99	0.950	0.000	0.00	0.000	0.00	0.0	0.0	0.0
2.00		1.00	0.85	31.009	34.11	599.16	0.950	0.000	2.00	10.655	10.12	345.3	0.0	705.4
4.00		1.00	0.85	31.009	34.11	594.33	0.950	0.000	2.00	10.569	10.04	342.5	0.0	699.7
6.00		1.00	0.85	31.009	34.11	589.49	0.950	0.000	2.00	10.484	9.96	339.7	0.0	694.0
8.00		1.00	0.85	31.009	34.11	584.66	0.950	0.000	2.00	10.398	9.88	337.0	0.0	688.3
10.00		1.00	0.85	31.009	34.11	579.83	0.950	0.000	2.00	10.313	9.80	334.2	0.0	682.6
12.00		1.00	0.85	31.009	34.11	575.00	0.950	0.000	2.00	10.227	9.72	331.4	0.0	676.9
14.00		1.00	0.85	31.009	34.11	570.17	0.950	0.000	2.00	10.142	9.63	328.6	0.0	671.2
16.00		1.00	0.86	31.392	34.53	568.81	0.950	0.000	2.00	10.056	9.55	329.9	0.0	665.5
18.00		1.00	0.88	32.180	35.40	570.99	0.950	0.000	2.00	9.970	9.47	335.3	0.0	659.8
20.00		1.00	0.90	32.902	36.19	572.38	0.950	0.000	2.00	9.885	9.39	339.9	0.0	654.1
22.00		1.00	0.92	33.569	36.93	573.12	0.950	0.000	2.00	9.799	9.31	343.8	0.0	648.3
24.00		1.00	0.94	34.189	37.61	573.32	0.950	0.000	2.00	9.714	9.23	347.0	0.0	642.6
26.00		1.00	0.95	34.770	38.25	573.06	0.950	0.000	2.00	9.628	9.15	349.8	0.0	636.9
28.00		1.00	0.97	35.317	38.85	572.39	0.950	0.000	2.00	9.542	9.07	352.2	0.0	631.2
30.00		1.00	0.98	35.834	39.42	571.37	0.950	0.000	2.00	9.457	8.98	354.1	0.0	625.5
32.00		1.00	1.00	36.324	39.96	570.03	0.950	0.000	2.00	9.371	8.90	355.7	0.0	619.8
34.00		1.00	1.01	36.791	40.47	568.42	0.950	0.000	2.00	9.286	8.82	357.0	0.0	614.1
36.00		1.00	1.02	37.236	40.96	566.55	0.950	0.000	2.00	9.200	8.74	358.0	0.0	608.4
38.00		1.00	1.03	37.662	41.43	564.46	0.950	0.000	2.00	9.115	8.66	358.7	0.0	602.7
40.00		1.00	1.04	38.071	41.88	562.16	0.950	0.000	2.00	9.029	8.58	359.2	0.0	597.0
42.00		1.00	1.05	38.464	42.31	559.68	0.950	0.000	2.00	8.943	8.50	359.5	0.0	591.3
43.92	Bot - Section 2	1.00	1.06	38.827	42.71	557.13	0.950	0.000	1.92	8.490	8.07	344.5	0.0	561.3
44.00		1.00	1.06	38.843	42.73	557.02	0.950	0.000	0.08	0.373	0.35	15.1	0.0	47.2
46.00		1.00	1.07	39.208	43.13	554.19	0.950	0.000	2.00	8.912	8.47	365.2	0.0	1127.3
48.00		1.00	1.08	39.561	43.52	551.23	0.950	0.000	2.00	8.827	8.39	364.9	0.0	1116.3
50.00		1.00	1.09	39.902	43.89	548.12	0.950	0.000	2.00	8.741	8.30	364.5	0.0	1105.3
51.00	Top - Section 1	1.00	1.10	40.069	44.08	546.52	0.950	0.000	1.00	4.339	4.12	181.7	0.0	548.5
52.00		1.00	1.10	40.233	44.26	553.90	0.950	0.000	1.00	4.317	4.10	181.5	0.0	265.1
54.00		1.00	1.11	40.554	44.61	550.58	0.950	0.000	2.00	8.570	8.14	363.2	0.0	526.3
56.00		1.00	1.12	40.866	44.95	547.14	0.950	0.000	2.00	8.485	8.06	362.3	0.0	521.0
58.00		1.00	1.13	41.169	45.29	543.60	0.950	0.000	2.00	8.399	7.98	361.3	0.0	515.7
60.00		1.00	1.14	41.464	45.61	539.95	0.950	0.000	2.00	8.313	7.90	360.2	0.0	510.4
62.00		1.00	1.14	41.751	45.93	536.21	0.950	0.000	2.00	8.228	7.82	359.0	0.0	505.1
64.00		1.00	1.15	42.031	46.23	532.38	0.950	0.000	2.00	8.142	7.74	357.6	0.0	499.8
66.00		1.00	1.16	42.304	46.53	528.47	0.950	0.000	2.00	8.057	7.65	356.2	0.0	494.5
68.00		1.00	1.17	42.571	46.83	524.47	0.950	0.000	2.00	7.971	7.57	354.6	0.0	489.2
70.00		1.00	1.17	42.831	47.11	520.39	0.950	0.000	2.00	7.885	7.49	352.9	0.0	483.9
72.00		1.00	1.18	43.086	47.39	516.24	0.950	0.000	2.00	7.800	7.41	351.2	0.0	478.6
74.00		1.00	1.19	43.335	47.67	512.02	0.950	0.000	2.00	7.714	7.33	349.3	0.0	473.3
76.00		1.00	1.19	43.579	47.94	507.73	0.950	0.000	2.00	7.629	7.25	347.4	0.0	468.0
78.00		1.00	1.20	43.818	48.20	503.38	0.950	0.000	2.00	7.543	7.17	345.4	0.0	462.7
80.00		1.00	1.21	44.053	48.46	498.96	0.950	0.000	2.00	7.458	7.08	343.3	0.0	457.4
82.00		1.00	1.21	44.282	48.71	494.49	0.950	0.000	2.00	7.372	7.00	341.1	0.0	452.1
84.00		1.00	1.22	44.507	48.96	489.96	0.950	0.000	2.00	7.286	6.92	338.9	0.0	446.8
86.00		1.00	1.23	44.728	49.20	485.37	0.950	0.000	2.00	7.201	6.84	336.6	0.0	441.5
88.00		1.00	1.23	44.945	49.44	480.73	0.950	0.000	2.00	7.115	6.76	334.2	0.0	436.2

Wind Loading - Shaft

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (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	

90.00	1.00	1.24	45.159	49.67	476.03	0.950	0.000	2.00	7.030	6.68	331.7	0.0	430.9
90.17 Bot - Section 3	1.00	1.24	45.176	49.69	475.64	0.950	0.000	0.17	0.582	0.55	27.5	0.0	35.7
92.00	1.00	1.24	45.368	49.90	471.29	0.950	0.000	1.83	6.471	6.15	306.8	0.0	726.1
94.00	1.00	1.25	45.574	50.13	466.50	0.950	0.000	2.00	6.977	6.63	332.3	0.0	782.7
96.00 Top - Section 2	1.00	1.25	45.776	50.35	461.67	0.950	0.000	2.00	6.891	6.55	329.7	0.0	772.9
98.00	1.00	1.26	45.975	50.57	464.94	0.950	0.000	2.00	6.806	6.47	327.0	0.0	353.4
100.00	1.00	1.27	46.171	50.79	460.03	0.950	0.000	2.00	6.720	6.38	324.2	0.0	349.0
102.00	1.00	1.27	46.364	51.00	455.09	0.950	0.000	2.00	6.635	6.30	321.5	0.0	344.5
104.00	1.00	1.28	46.554	51.21	450.10	0.950	0.000	2.00	6.549	6.22	318.6	0.0	340.0
106.00	1.00	1.28	46.741	51.42	445.07	0.950	0.000	2.00	6.464	6.14	315.7	0.0	335.5
108.00	1.00	1.29	46.926	51.62	440.00	0.950	0.000	2.00	6.378	6.06	312.8	0.0	331.0
110.00	1.00	1.29	47.107	51.82	434.90	0.950	0.000	2.00	6.292	5.98	309.8	0.0	326.5
112.00	1.00	1.30	47.286	52.01	429.75	0.950	0.000	2.00	6.207	5.90	306.7	0.0	322.1
114.00	1.00	1.30	47.463	52.21	424.58	0.950	0.000	2.00	6.121	5.82	303.6	0.0	317.6
116.00	1.00	1.31	47.637	52.40	419.37	0.950	0.000	2.00	6.036	5.73	300.5	0.0	313.1
118.00	1.00	1.31	47.809	52.59	414.12	0.950	0.000	2.00	5.950	5.65	297.3	0.0	308.6
120.00	1.00	1.32	47.978	52.78	408.85	0.950	0.000	2.00	5.864	5.57	294.0	0.0	304.1
122.00	1.00	1.32	48.145	52.96	403.54	0.950	0.000	2.00	5.779	5.49	290.7	0.0	299.6
124.00	1.00	1.32	48.310	53.14	398.20	0.950	0.000	2.00	5.693	5.41	287.4	0.0	295.2
126.00	1.00	1.33	48.473	53.32	392.83	0.950	0.000	2.00	5.608	5.33	284.1	0.0	290.7
128.00	1.00	1.33	48.634	53.50	387.43	0.950	0.000	2.00	5.522	5.25	280.7	0.0	286.2
130.00	1.00	1.34	48.793	53.67	382.00	0.950	0.000	2.00	5.437	5.16	277.2	0.0	281.7
132.00	1.00	1.34	48.950	53.85	376.54	0.950	0.000	2.00	5.351	5.08	273.7	0.0	277.2
133.33 Bot - Section 4	1.00	1.34	49.054	53.96	372.89	0.950	0.000	1.33	3.520	3.34	180.4	0.0	182.3
134.00	1.00	1.35	49.106	54.02	371.06	0.950	0.000	0.67	1.774	1.69	91.1	0.0	157.5
136.00	1.00	1.35	49.259	54.19	365.55	0.950	0.000	2.00	5.266	5.00	271.1	0.0	467.3
138.00 Top - Section 3	1.00	1.35	49.411	54.35	360.01	0.950	0.000	2.00	5.181	4.92	267.5	0.0	459.5
140.00 Appurtenance(s)	1.00	1.36	49.561	54.52	360.61	0.950	0.000	2.00	5.095	4.84	263.9	0.0	192.5
142.00	1.00	1.36	49.709	54.68	355.03	0.950	0.000	2.00	5.009	4.76	260.2	0.0	189.2
144.00	1.00	1.37	49.855	54.84	349.42	0.950	0.000	2.00	4.924	4.68	256.5	0.0	186.0
146.00	1.00	1.37	50.000	55.00	343.80	0.950	0.000	2.00	4.838	4.60	252.8	0.0	182.7
148.00	1.00	1.37	50.144	55.16	338.14	0.950	0.000	2.00	4.753	4.51	249.0	0.0	179.4
150.00 Appurtenance(s)	1.00	1.38	50.286	55.31	332.47	0.950	0.000	2.00	4.667	4.43	245.2	0.0	176.2
152.00	1.00	1.38	50.426	55.47	326.77	0.950	0.000	2.00	4.581	4.35	241.4	0.0	172.9
154.00	1.00	1.39	50.565	55.62	321.05	0.950	0.000	2.00	4.496	4.27	237.6	0.0	169.7
156.00	1.00	1.39	50.703	55.77	315.31	0.950	0.000	2.00	4.410	4.19	233.7	0.0	166.4
158.00 Appurtenance(s)	1.00	1.39	50.839	55.92	309.54	0.950	0.000	2.00	4.325	4.11	229.8	0.0	163.1
160.00 Appurtenance(s)	1.00	1.40	50.974	56.07	303.76	0.950	0.000	2.00	4.239	4.03	225.8	0.0	159.9
162.00	1.00	1.40	51.107	56.22	297.95	0.950	0.000	2.00	4.154	3.95	221.8	0.0	156.6
164.00	1.00	1.40	51.239	56.36	292.13	0.950	0.000	2.00	4.068	3.86	217.8	0.0	153.3
166.00 Appurtenance(s)	1.00	1.41	51.370	56.51	286.28	0.950	0.000	2.00	3.982	3.78	213.8	0.0	150.1
168.00	1.00	1.41	51.500	56.65	280.42	0.950	0.000	2.00	3.897	3.70	209.7	0.0	146.8
170.00	1.00	1.42	51.628	56.79	274.53	0.950	0.000	2.00	3.811	3.62	205.6	0.0	143.6
172.00	1.00	1.42	51.756	56.93	268.63	0.950	0.000	2.00	3.726	3.54	201.5	0.0	140.3
174.00	1.00	1.42	51.882	57.07	262.70	0.950	0.000	2.00	3.640	3.46	197.3	0.0	137.0
176.00	1.00	1.43	52.007	57.21	256.76	0.950	0.000	2.00	3.554	3.38	193.2	0.0	133.8
178.00 Appurtenance(s)	1.00	1.43	52.131	57.34	250.80	0.950	0.000	2.00	3.469	3.30	189.0	0.0	130.5
180.00	1.00	1.43	52.253	57.48	244.83	0.950	0.000	2.00	3.383	3.21	184.7	0.0	127.3
							Totals:	**180.00**			**27,684.8**		**40,096.7**

Discrete Appurtenance Forces

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (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 + 1.0W 123 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 29

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	178.00	JMA MX06FRO660-03	6	52.131	57.344	0.65	0.75	38.64	432.00	0.000	0.000	2215.82	0.00	0.00
2	178.00	Raycap	1	52.131	57.344	0.67	0.75	1.74	38.40	0.000	0.000	99.90	0.00	0.00
3	178.00	Samsung B5/B13 RRH	3	52.131	57.344	0.38	0.75	2.11	253.08	0.000	0.000	121.28	0.00	0.00
4	178.00	Platform w/ Handrails w/	1	52.131	57.344	1.00	1.00	40.00	2642.64	0.000	0.000	2293.75	0.00	0.00
5	178.00	Samsung VZS01	3	52.131	57.344	0.52	0.75	6.68	313.56	0.000	0.000	382.81	0.00	0.00
6	178.00	Samsung B2/B66A RRH	3	52.131	57.344	0.38	0.75	2.11	303.84	0.000	0.000	121.28	0.00	0.00
7	166.00	ALU 1900 Mhz	3	51.370	56.507	0.38	0.75	2.59	158.40	0.000	0.000	146.21	0.00	0.00
8	166.00	Platform w/ Hand Rails	1	51.370	56.507	1.00	1.00	40.00	2400.00	0.000	0.000	2260.29	0.00	0.00
9	166.00	RFS APXVTM14-C-I20	3	51.370	56.507	0.58	0.75	10.98	202.32	0.000	0.000	620.68	0.00	0.00
10	166.00	Commscope	3	51.370	56.507	0.55	0.75	20.43	278.64	0.000	0.000	1154.42	0.00	0.00
11	166.00	ALU TD-RRH8x20-25	3	51.370	56.507	0.38	0.75	4.56	252.00	0.000	0.000	257.46	0.00	0.00
12	166.00	ALU 800 Mhz	6	51.370	56.507	0.38	0.75	4.95	381.60	0.000	0.000	279.71	0.00	0.00
13	166.00	Sitepro	1	51.370	56.507	1.00	1.00	6.70	276.00	0.000	0.000	378.60	0.00	0.00
14	166.00	Sitepro	1	51.370	56.507	1.00	1.00	7.00	487.93	0.000	0.000	395.55	0.00	0.00
15	160.00	RR90-17-00VDPL2/-R	3	50.974	56.071	0.54	0.80	7.12	48.60	0.000	0.000	398.97	0.00	0.00
16	160.00	4449 B71+B12	3	50.974	56.071	0.40	0.80	1.98	252.00	0.000	0.000	111.02	0.00	0.00
17	160.00	KRY 112 144/2	3	50.974	56.071	0.40	0.80	0.49	55.44	0.000	0.000	27.59	0.00	0.00
18	160.00	KRY 112 489/2	3	50.974	56.071	0.40	0.80	0.78	55.44	0.000	0.000	43.74	0.00	0.00
19	160.00	APXVAARR24_43-U-NA2	3	50.974	56.071	0.56	0.80	34.00	460.80	0.000	0.000	1906.59	0.00	0.00
20	158.00	V-Brace	1	50.839	55.923	0.75	0.75	4.72	236.40	0.000	0.000	264.23	0.00	0.00
21	158.00	T-Arm Kit	1	50.839	55.923	0.75	0.75	12.38	600.00	0.000	0.000	692.04	0.00	0.00
22	158.00	T-Arms	3	50.839	55.923	0.56	0.75	13.50	1260.00	0.000	0.000	754.96	0.00	0.00
23	150.00	DMP65R-BU6DA	2	50.286	55.314	0.54	0.75	13.73	190.56	0.000	0.000	759.29	0.00	0.00
24	150.00	Powerwave 7770	3	50.286	55.314	0.55	0.75	9.05	126.00	0.000	0.000	500.60	0.00	0.00
25	150.00	DMP65R-BU4DA	1	50.286	55.314	0.54	0.75	4.47	95.28	0.000	0.000	247.32	0.00	0.00
26	150.00	Powerwave LGP21401	6	50.286	55.314	0.38	0.75	1.84	101.52	0.000	0.000	102.05	0.00	0.00
27	150.00	B2 B66A 8843	3	50.286	55.314	0.38	0.75	1.84	252.00	0.000	0.000	102.05	0.00	0.00
28	150.00	Raycap DC6-48-60-18-8F	1	50.286	55.314	0.67	1.00	1.21	38.16	0.000	0.000	67.08	0.00	0.00
29	150.00	Platform w/ Hand Rail	1	50.286	55.314	1.00	1.00	35.00	1920.00	0.000	0.000	1936.00	0.00	0.00
30	150.00	Cci HPA-65R-BUU-H6	2	50.286	55.314	0.64	0.75	12.32	122.40	0.000	0.000	681.28	0.00	0.00
31	150.00	SBNHH-1D65A	1	50.286	55.314	0.75	0.75	4.41	40.20	0.000	0.000	243.94	0.00	0.00
32	150.00	4449 B5/B12	3	50.286	55.314	0.38	0.75	1.86	255.60	0.000	0.000	102.68	0.00	0.00
33	140.00	Raycap	1	49.561	54.517	0.59	0.75	1.19	26.28	0.000	0.000	64.93	0.00	0.00
34	140.00	Fujitsu TA08025-B604	3	49.561	54.517	0.38	0.75	2.21	230.04	0.000	0.000	120.21	0.00	0.00
35	140.00	Fujitsu TA08025-B605	3	49.561	54.517	0.38	0.75	2.21	270.00	0.000	0.000	120.21	0.00	0.00
36	140.00	Sitepro1 SNP8HR-3XX	1	49.561	54.517	1.00	1.00	37.59	2251.20	0.000	0.000	2049.28	0.00	0.00
37	140.00	JMA Wireless	3	49.561	54.517	0.55	0.75	20.80	232.20	0.000	0.000	1133.72	0.00	0.00
							Totals:		**17,540.53**			**23,157.56**		

Total Applied Force Summary

Structure:	CT46130-A-SBA		**Code:**	EIA/TIA-222-H	5/21/2021
Site Name:	Deep River-winthrop Rd		**Exposure:**	C	
Height:	180.00 (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 + 1.0W 123 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 29

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
2.00		345.27	708.56	0.00	0.00
4.00		342.50	739.32	0.00	0.00
6.00		339.73	770.08	0.00	0.00
8.00		336.95	764.37	0.00	0.00
10.00		334.18	758.66	0.00	0.00
12.00		331.41	752.96	0.00	0.00
14.00		328.63	747.25	0.00	0.00
16.00		329.88	741.54	0.00	0.00
18.00		335.29	735.84	0.00	0.00
20.00		339.86	730.13	0.00	0.00
22.00		343.75	724.42	0.00	0.00
24.00		347.05	718.72	0.00	0.00
26.00		349.84	713.01	0.00	0.00
28.00		352.18	707.31	0.00	0.00
30.00		354.13	701.60	0.00	0.00
32.00		355.72	695.89	0.00	0.00
34.00		357.00	690.19	0.00	0.00
36.00		357.99	684.48	0.00	0.00
38.00		358.72	678.77	0.00	0.00
40.00		359.21	673.07	0.00	0.00
42.00		359.48	667.36	0.00	0.00
43.92		344.50	634.20	0.00	0.00
44.00		15.15	50.38	0.00	0.00
46.00		365.16	1203.41	0.00	0.00
48.00		364.91	1192.41	0.00	0.00
50.00		364.49	1181.40	0.00	0.00
51.00		181.66	586.57	0.00	0.00
52.00		181.51	303.16	0.00	0.00
54.00		363.19	602.35	0.00	0.00
56.00		362.33	597.05	0.00	0.00
58.00		361.33	591.75	0.00	0.00
60.00		360.21	586.45	0.00	0.00
62.00		358.98	581.15	0.00	0.00
64.00		357.62	575.85	0.00	0.00
66.00		356.16	570.55	0.00	0.00
68.00		354.60	565.26	0.00	0.00
70.00		352.94	559.96	0.00	0.00
72.00		351.19	554.66	0.00	0.00
74.00		349.34	549.36	0.00	0.00
76.00		347.41	544.06	0.00	0.00
78.00		345.40	538.76	0.00	0.00
80.00		343.31	533.46	0.00	0.00
82.00		341.14	528.16	0.00	0.00
84.00		338.89	522.87	0.00	0.00
86.00		336.57	517.57	0.00	0.00
88.00		334.19	512.27	0.00	0.00

Total Applied Force Summary

Structure:	CT46130-A-SBA		**Code:**	EIA/TIA-222-H	5/21/2021
Site Name:	Deep River-winthrop Rd		**Exposure:**	C	
Height:	180.00 (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

90.00		331.73	506.97	0.00	0.00
90.17		27.47	42.01	0.00	0.00
92.00		306.78	795.81	0.00	0.00
94.00		332.28	858.78	0.00	0.00
96.00		329.66	849.00	0.00	0.00
98.00		326.99	429.52	0.00	0.00
100.00		324.25	425.04	0.00	0.00
102.00		321.46	420.56	0.00	0.00
104.00		318.61	416.07	0.00	0.00
106.00		315.71	411.59	0.00	0.00
108.00		312.76	407.11	0.00	0.00
110.00		309.76	402.62	0.00	0.00
112.00		306.70	398.14	0.00	0.00
114.00		303.61	393.65	0.00	0.00
116.00		300.46	389.17	0.00	0.00
118.00		297.27	384.69	0.00	0.00
120.00		294.03	380.20	0.00	0.00
122.00		290.75	375.72	0.00	0.00
124.00		287.42	371.24	0.00	0.00
126.00		284.06	366.75	0.00	0.00
128.00		280.65	362.27	0.00	0.00
130.00		277.21	357.79	0.00	0.00
132.00		273.72	353.30	0.00	0.00
133.33		180.43	233.04	0.00	0.00
134.00		91.05	182.83	0.00	0.00
136.00		271.08	543.34	0.00	0.00
138.00		267.49	535.59	0.00	0.00
140.00	(11) attachments	3752.22	3278.28	0.00	0.00
142.00		260.21	262.90	0.00	0.00
144.00		256.52	259.63	0.00	0.00
146.00		252.80	256.37	0.00	0.00
148.00		249.04	253.11	0.00	0.00
150.00	(23) attachments	4987.54	3391.57	0.00	0.00
152.00		241.42	222.66	0.00	0.00
154.00		237.56	219.40	0.00	0.00
156.00		233.68	216.14	0.00	0.00
158.00	(5) attachments	1940.99	2309.28	0.00	0.00
160.00	(15) attachments	2713.72	1081.90	0.00	0.00
162.00		221.83	173.91	0.00	0.00
164.00		217.82	170.65	0.00	0.00
166.00	(21) attachments	5706.70	4604.28	0.00	0.00
168.00		209.71	154.97	0.00	0.00
170.00		205.62	151.71	0.00	0.00
172.00		201.50	148.45	0.00	0.00
174.00		197.35	145.19	0.00	0.00
176.00		193.17	141.93	0.00	0.00
178.00	(17) attachments	5423.82	4122.19	0.00	0.00
180.00		184.74	130.41	0.00	0.00
	Totals:	**50,842.34**	**63,574.36**	**0.00**	**0.00**

Linear Appurtenance Segment Forces (Factored)

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 15	

Load Case: 1.2D + 1.0W 123 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 29

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)
2.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	31.009	0.00	0.66
2.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	31.009	0.00	2.50
4.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	31.009	0.00	0.66
4.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	31.009	0.00	2.50
6.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	31.009	0.00	0.66
6.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	31.009	0.00	2.50
8.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	31.009	0.00	0.66
8.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	31.009	0.00	2.50
10.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	31.009	0.00	0.66
10.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	31.009	0.00	2.50
12.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	31.009	0.00	0.66
12.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	31.009	0.00	2.50
14.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	31.009	0.00	0.66
14.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	31.009	0.00	2.50
16.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	31.392	0.00	0.66
16.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	31.392	0.00	2.50
18.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	32.180	0.00	0.66
18.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	32.180	0.00	2.50
20.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	32.902	0.00	0.66
20.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	32.902	0.00	2.50
22.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	33.569	0.00	0.66
22.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	33.569	0.00	2.50
24.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	34.189	0.00	0.66
24.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	34.189	0.00	2.50
26.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	34.770	0.00	0.66
26.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	34.770	0.00	2.50
28.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	35.317	0.00	0.66
28.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	35.317	0.00	2.50
30.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	35.834	0.00	0.66
30.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	35.834	0.00	2.50
32.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	36.324	0.00	0.66
32.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	36.324	0.00	2.50
34.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	36.791	0.00	0.66
34.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	36.791	0.00	2.50
36.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	37.236	0.00	0.66
36.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	37.236	0.00	2.50
38.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	37.662	0.00	0.66
38.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	37.662	0.00	2.50
40.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	38.071	0.00	0.66
40.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	38.071	0.00	2.50
42.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	38.464	0.00	0.66
42.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	38.464	0.00	2.50
43.92	Safety Cable	Yes	1.92	0.000	0.00	0.00	0.00	0.000	0.000	38.827	0.00	0.63
43.92	Step bolts (ladder)	Yes	1.92	0.000	0.00	0.00	0.00	0.000	0.000	38.827	0.00	2.39
44.00	Safety Cable	Yes	0.08	0.000	0.00	0.00	0.00	0.000	0.000	38.843	0.00	0.03
44.00	Step bolts (ladder)	Yes	0.08	0.000	0.00	0.00	0.00	0.000	0.000	38.843	0.00	0.10
46.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	39.208	0.00	0.66

Linear Appurtenance Segment Forces (Factored)

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (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	

Load Case: 1.2D + 1.0W 123 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 29

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)
46.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	39.208	0.00	2.50
48.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	39.561	0.00	0.66
48.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	39.561	0.00	2.50
50.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	39.902	0.00	0.66
50.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	39.902	0.00	2.50
51.00	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	40.069	0.00	0.33
51.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	40.069	0.00	1.25
52.00	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	40.233	0.00	0.33
52.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	40.233	0.00	1.25
54.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	40.554	0.00	0.66
54.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	40.554	0.00	2.50
56.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	40.866	0.00	0.66
56.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	40.866	0.00	2.50
58.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	41.169	0.00	0.66
58.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	41.169	0.00	2.50
60.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	41.464	0.00	0.66
60.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	41.464	0.00	2.50
62.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	41.751	0.00	0.66
62.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	41.751	0.00	2.50
64.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	42.031	0.00	0.66
64.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	42.031	0.00	2.50
66.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	42.304	0.00	0.66
66.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	42.304	0.00	2.50
68.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	42.571	0.00	0.66
68.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	42.571	0.00	2.50
70.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	42.831	0.00	0.66
70.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	42.831	0.00	2.50
72.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	43.086	0.00	0.66
72.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	43.086	0.00	2.50
74.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	43.335	0.00	0.66
74.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	43.335	0.00	2.50
76.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	43.579	0.00	0.66
76.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	43.579	0.00	2.50
78.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	43.818	0.00	0.66
78.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	43.818	0.00	2.50
80.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	44.053	0.00	0.66
80.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	44.053	0.00	2.50
82.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	44.282	0.00	0.66
82.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	44.282	0.00	2.50
84.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	44.507	0.00	0.66
84.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	44.507	0.00	2.50
86.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	44.728	0.00	0.66
86.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	44.728	0.00	2.50
88.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	44.945	0.00	0.66
88.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	44.945	0.00	2.50
90.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	45.159	0.00	0.66
90.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	45.159	0.00	2.50

Linear Appurtenance Segment Forces (Factored)

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (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	

Load Case: 1.2D + 1.0W 123 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 29

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)
90.17	Safety Cable	Yes	0.17	0.000	0.00	0.00	0.00	0.000	0.000	45.176	0.00	0.05
90.17	Step bolts (ladder)	Yes	0.17	0.000	0.00	0.00	0.00	0.000	0.000	45.176	0.00	0.21
92.00	Safety Cable	Yes	1.83	0.000	0.00	0.00	0.00	0.000	0.000	45.368	0.00	0.60
92.00	Step bolts (ladder)	Yes	1.83	0.000	0.00	0.00	0.00	0.000	0.000	45.368	0.00	2.29
94.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	45.574	0.00	0.66
94.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	45.574	0.00	2.50
96.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	45.776	0.00	0.66
96.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	45.776	0.00	2.50
98.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	45.975	0.00	0.66
98.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	45.975	0.00	2.50
100.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	46.171	0.00	0.66
100.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	46.171	0.00	2.50
102.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	46.364	0.00	0.66
102.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	46.364	0.00	2.50
104.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	46.554	0.00	0.66
104.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	46.554	0.00	2.50
106.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	46.741	0.00	0.66
106.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	46.741	0.00	2.50
108.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	46.926	0.00	0.66
108.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	46.926	0.00	2.50
110.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	47.107	0.00	0.66
110.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	47.107	0.00	2.50
112.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	47.286	0.00	0.66
112.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	47.286	0.00	2.50
114.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	47.463	0.00	0.66
114.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	47.463	0.00	2.50
116.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	47.637	0.00	0.66
116.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	47.637	0.00	2.50
118.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	47.809	0.00	0.66
118.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	47.809	0.00	2.50
120.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	47.978	0.00	0.66
120.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	47.978	0.00	2.50
122.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	48.145	0.00	0.66
122.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	48.145	0.00	2.50
124.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	48.310	0.00	0.66
124.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	48.310	0.00	2.50
126.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	48.473	0.00	0.66
126.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	48.473	0.00	2.50
128.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	48.634	0.00	0.66
128.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	48.634	0.00	2.50
130.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	48.793	0.00	0.66
130.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	48.793	0.00	2.50
132.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	48.950	0.00	0.66
132.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	48.950	0.00	2.50
133.33	Safety Cable	Yes	1.33	0.000	0.00	0.00	0.00	0.000	0.000	49.054	0.00	0.44
133.33	Step bolts (ladder)	Yes	1.33	0.000	0.00	0.00	0.00	0.000	0.000	49.054	0.00	1.66
134.00	Safety Cable	Yes	0.67	0.000	0.00	0.00	0.00	0.000	0.000	49.106	0.00	0.22

Linear Appurtenance Segment Forces (Factored)

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (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	

Load Case: 1.2D + 1.0W 123 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 29

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)
134.00	Step bolts (ladder)	Yes	0.67	0.000	0.00	0.00	0.00	0.000	0.000	49.106	0.00	0.83
136.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	49.259	0.00	0.66
136.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	49.259	0.00	2.50
138.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	49.411	0.00	0.66
138.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	49.411	0.00	2.50
140.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	49.561	0.00	0.66
140.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	49.561	0.00	2.50
142.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	49.709	0.00	0.66
142.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	49.709	0.00	2.50
144.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	49.855	0.00	0.66
144.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	49.855	0.00	2.50
146.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	50.000	0.00	0.66
146.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	50.000	0.00	2.50
148.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	50.144	0.00	0.66
148.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	50.144	0.00	2.50
150.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	50.286	0.00	0.66
150.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	50.286	0.00	2.50
152.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	50.426	0.00	0.66
152.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	50.426	0.00	2.50
154.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	50.565	0.00	0.66
154.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	50.565	0.00	2.50
156.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	50.703	0.00	0.66
156.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	50.703	0.00	2.50
158.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	50.839	0.00	0.66
158.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	50.839	0.00	2.50
160.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	50.974	0.00	0.66
160.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	50.974	0.00	2.50
162.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	51.107	0.00	0.66
162.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	51.107	0.00	2.50
164.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	51.239	0.00	0.66
164.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	51.239	0.00	2.50
166.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	51.370	0.00	0.66
166.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	51.370	0.00	2.50
168.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	51.500	0.00	0.66
168.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	51.500	0.00	2.50
170.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	51.628	0.00	0.66
170.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	51.628	0.00	2.50
172.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	51.756	0.00	0.66
172.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	51.756	0.00	2.50
174.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	51.882	0.00	0.66
174.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	51.882	0.00	2.50
176.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	52.007	0.00	0.66
176.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	52.007	0.00	2.50
178.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	52.131	0.00	0.66
178.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	52.131	0.00	2.50
180.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	52.253	0.00	0.66
180.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	52.253	0.00	2.50

Linear Appurtenance Segment Forces (Factored)

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (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	

Load Case: 1.2D + 1.0W 123 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 29

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)
										Totals:	**0.0**	**283.6**

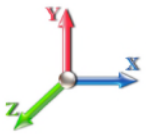
Calculated Forces

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (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	

Load Case: 1.2D + 1.0W 123 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 29

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	-63.53	-50.89	0.00	-6341.8	0.00	6341.85	5123.29	1522.04	7808.40	6435.29	0.00	0.000	0.000	0.999
2.00	-62.75	-50.64	0.00	-6240.0	0.00	6240.07	5107.67	1509.78	7683.09	6363.61	0.02	-0.085	0.000	0.994
4.00	-61.94	-50.39	0.00	-6138.8	0.00	6138.80	5091.62	1497.52	7558.79	6291.73	0.07	-0.171	0.000	0.989
6.00	-61.09	-50.14	0.00	-6038.0	0.00	6038.03	5075.16	1485.26	7435.50	6219.67	0.16	-0.258	0.000	0.984
8.00	-60.25	-49.89	0.00	-5937.7	0.00	5937.75	5058.29	1472.99	7313.22	6147.44	0.29	-0.345	0.000	0.979
10.00	-59.42	-49.64	0.00	-5837.9	0.00	5837.97	5041.00	1460.73	7191.96	6075.05	0.46	-0.434	0.000	0.974
12.00	-58.59	-49.40	0.00	-5738.6	0.00	5738.69	5023.29	1448.47	7071.72	6002.51	0.66	-0.522	0.000	0.969
14.00	-57.77	-49.15	0.00	-5639.9	0.00	5639.90	5005.16	1436.20	6952.48	5929.84	0.90	-0.612	0.000	0.964
16.00	-56.96	-48.90	0.00	-5541.6	0.00	5541.61	4986.62	1423.94	6834.27	5857.05	1.17	-0.702	0.000	0.959
18.00	-56.15	-48.65	0.00	-5443.8	0.00	5443.80	4967.66	1411.68	6717.06	5784.16	1.49	-0.793	0.000	0.954
20.00	-55.34	-48.39	0.00	-5346.5	0.00	5346.51	4948.29	1399.42	6600.87	5711.17	1.84	-0.885	0.000	0.949
22.00	-54.55	-48.12	0.00	-5249.7	0.00	5249.74	4928.49	1387.15	6485.69	5638.10	2.23	-0.977	0.000	0.943
24.00	-53.76	-47.85	0.00	-5153.5	0.00	5153.51	4908.28	1374.89	6371.53	5564.95	2.66	-1.070	0.000	0.938
26.00	-52.97	-47.57	0.00	-5057.8	0.00	5057.82	4887.66	1362.63	6258.37	5491.76	3.13	-1.164	0.000	0.933
28.00	-52.20	-47.29	0.00	-4962.6	0.00	4962.68	4866.62	1350.36	6146.24	5418.52	3.64	-1.259	0.000	0.928
30.00	-51.42	-47.01	0.00	-4868.1	0.00	4868.11	4845.16	1338.10	6035.11	5345.24	4.19	-1.355	0.000	0.923
32.00	-50.66	-46.72	0.00	-4774.1	0.00	4774.10	4823.28	1325.84	5925.00	5271.95	4.77	-1.451	0.000	0.917
34.00	-49.90	-46.43	0.00	-4680.6	0.00	4680.66	4800.99	1313.58	5815.91	5198.66	5.40	-1.548	0.000	0.912
36.00	-49.14	-46.14	0.00	-4587.8	0.00	4587.81	4778.28	1301.31	5707.83	5125.37	6.07	-1.646	0.000	0.907
38.00	-48.40	-45.84	0.00	-4495.5	0.00	4495.54	4755.15	1289.05	5600.76	5052.10	6.78	-1.744	0.000	0.901
40.00	-47.66	-45.54	0.00	-4403.8	0.00	4403.86	4731.61	1276.79	5494.70	4978.87	7.54	-1.843	0.000	0.896
42.00	-46.92	-45.24	0.00	-4312.7	0.00	4312.78	4707.65	1264.52	5389.66	4905.68	8.33	-1.944	0.000	0.890
43.92	-46.26	-44.92	0.00	-4226.0	0.00	4226.06	4684.30	1252.77	5289.95	4835.60	9.13	-2.040	0.000	0.885
44.00	-46.17	-44.94	0.00	-4222.3	0.00	4222.32	4683.27	1252.26	5285.64	4832.55	9.17	-2.045	0.000	0.885
46.00	-44.90	-44.61	0.00	-4132.4	0.00	4132.44	4658.48	1240.00	5182.62	4759.49	10.05	-2.146	0.000	0.879
48.00	-43.65	-44.28	0.00	-4043.2	0.00	4043.21	4633.27	1227.74	5080.62	4686.52	10.97	-2.249	0.000	0.873
50.00	-42.42	-43.93	0.00	-3954.6	0.00	3954.65	4607.64	1215.47	4979.64	4613.64	11.93	-2.352	0.000	0.868
51.00	-41.80	-43.76	0.00	-3910.7	0.00	3910.72	4157.28	1142.33	4736.69	4216.21	12.43	-2.405	0.000	0.939
52.00	-41.45	-43.62	0.00	-3866.9	0.00	3866.96	4146.96	1136.64	4689.60	4184.61	12.94	-2.457	0.000	0.936
54.00	-40.78	-43.31	0.00	-3779.7	0.00	3779.71	4126.01	1125.25	4596.10	4121.41	13.99	-2.565	0.000	0.928
56.00	-40.12	-43.00	0.00	-3693.0	0.00	3693.09	4104.64	1113.86	4503.55	4058.23	15.09	-2.673	0.000	0.921
58.00	-39.46	-42.69	0.00	-3607.1	0.00	3607.10	4082.85	1102.48	4411.95	3995.08	16.23	-2.782	0.000	0.914
60.00	-38.81	-42.37	0.00	-3521.7	0.00	3521.73	4060.64	1091.09	4321.28	3931.97	17.42	-2.891	0.000	0.907
62.00	-38.17	-42.06	0.00	-3436.9	0.00	3436.99	4038.02	1079.70	4231.55	3868.91	18.66	-3.002	0.000	0.899
64.00	-37.53	-41.74	0.00	-3352.8	0.00	3352.88	4014.98	1068.31	4142.77	3805.92	19.94	-3.113	0.000	0.892
66.00	-36.90	-41.43	0.00	-3269.3	0.00	3269.39	3991.52	1056.93	4054.92	3743.01	21.27	-3.225	0.000	0.884
68.00	-36.28	-41.11	0.00	-3186.5	0.00	3186.54	3967.65	1045.54	3968.02	3680.19	22.64	-3.338	0.000	0.877
70.00	-35.66	-40.80	0.00	-3104.3	0.00	3104.32	3943.36	1034.15	3882.06	3617.47	24.06	-3.451	0.000	0.869
72.00	-35.04	-40.48	0.00	-3022.7	0.00	3022.72	3918.66	1022.77	3797.04	3554.87	25.53	-3.565	0.000	0.861
74.00	-34.44	-40.17	0.00	-2941.7	0.00	2941.76	3893.54	1011.38	3712.96	3492.40	27.05	-3.680	0.000	0.853
76.00	-33.84	-39.86	0.00	-2861.4	0.00	2861.42	3868.00	999.99	3629.83	3430.07	28.62	-3.796	0.000	0.845
78.00	-33.24	-39.54	0.00	-2781.7	0.00	2781.71	3842.04	988.61	3547.63	3367.90	30.23	-3.912	0.000	0.836
80.00	-32.65	-39.23	0.00	-2702.6	0.00	2702.63	3815.67	977.22	3466.38	3305.90	31.89	-4.029	0.000	0.828
82.00	-32.07	-38.92	0.00	-2624.1	0.00	2624.17	3788.88	965.83	3386.07	3244.07	33.61	-4.147	0.000	0.819
84.00	-31.49	-38.61	0.00	-2546.3	0.00	2546.33	3761.67	954.44	3306.69	3182.44	35.37	-4.265	0.000	0.810
86.00	-30.92	-38.30	0.00	-2469.1	0.00	2469.12	3734.05	943.06	3228.26	3121.02	37.18	-4.384	0.000	0.801
88.00	-30.36	-37.99	0.00	-2392.5	0.00	2392.53	3706.01	931.67	3150.77	3059.82	39.04	-4.504	0.000	0.792
90.00	-29.84	-37.65	0.00	-2316.5	0.00	2316.55	3677.55	920.28	3074.23	2998.84	40.95	-4.624	0.000	0.782

Calculated Forces

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (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

90.17	-29.76	-37.65	0.00	-2310.2	0.00	2310.28	3675.16	919.33	3067.89	2993.77	41.11	-4.634	0.000	0.781
92.00	-28.91	-37.34	0.00	-2241.2	0.00	2241.25	3648.68	908.90	2998.62	2938.12	42.91	-4.745	0.000	0.772
94.00	-28.01	-37.00	0.00	-2166.5	0.00	2166.57	3619.39	897.51	2923.96	2877.64	44.92	-4.866	0.000	0.762
96.00	-27.11	-36.65	0.00	-2092.5	0.00	2092.58	2873.56	764.37	2506.37	2303.28	46.99	-4.987	0.000	0.920
98.00	-26.63	-36.35	0.00	-2019.2	0.00	2019.28	2853.66	754.73	2443.58	2258.25	49.10	-5.109	0.000	0.906
100.00	-26.15	-36.05	0.00	-1946.5	0.00	1946.59	2833.34	745.10	2381.59	2213.29	51.27	-5.245	0.000	0.891
102.00	-25.68	-35.75	0.00	-1874.4	0.00	1874.49	2812.61	735.46	2320.39	2168.43	53.49	-5.382	0.000	0.876
104.00	-25.21	-35.46	0.00	-1802.9	0.00	1802.99	2791.46	725.83	2259.99	2123.68	55.77	-5.518	0.000	0.860
106.00	-24.75	-35.16	0.00	-1732.0	0.00	1732.08	2769.89	716.19	2200.39	2079.04	58.11	-5.655	0.000	0.844
108.00	-24.29	-34.87	0.00	-1661.7	0.00	1661.76	2747.90	706.55	2141.58	2034.53	60.50	-5.791	0.000	0.828
110.00	-23.84	-34.57	0.00	-1592.0	0.00	1592.03	2725.50	696.92	2083.57	1990.17	62.96	-5.927	0.000	0.811
112.00	-23.40	-34.28	0.00	-1522.8	0.00	1522.88	2702.68	687.28	2026.36	1945.97	65.46	-6.063	0.000	0.794
114.00	-22.96	-33.99	0.00	-1454.3	0.00	1454.32	2679.45	677.65	1969.94	1901.93	68.03	-6.198	0.000	0.776
116.00	-22.52	-33.70	0.00	-1386.3	0.00	1386.33	2655.79	668.01	1914.32	1858.08	70.65	-6.333	0.000	0.757
118.00	-22.10	-33.42	0.00	-1318.9	0.00	1318.93	2631.73	658.38	1859.50	1814.42	73.33	-6.467	0.000	0.738
120.00	-21.68	-33.13	0.00	-1252.0	0.00	1252.09	2607.24	648.74	1805.47	1770.96	76.06	-6.600	0.000	0.718
122.00	-21.26	-32.85	0.00	-1185.8	0.00	1185.83	2582.34	639.11	1752.24	1727.73	78.85	-6.732	0.000	0.697
124.00	-20.85	-32.57	0.00	-1120.1	0.00	1120.13	2557.02	629.47	1699.80	1684.74	81.69	-6.862	0.000	0.676
126.00	-20.45	-32.29	0.00	-1055.0	0.00	1055.00	2531.28	619.84	1648.16	1641.98	84.59	-6.991	0.000	0.653
128.00	-20.06	-32.01	0.00	-990.43	0.00	990.43	2505.13	610.20	1597.32	1599.49	87.53	-7.118	0.000	0.630
130.00	-19.67	-31.73	0.00	-926.41	0.00	926.41	2478.56	600.57	1547.28	1557.27	90.54	-7.242	0.000	0.606
132.00	-19.30	-31.45	0.00	-862.96	0.00	862.96	2451.58	590.93	1498.03	1515.33	93.59	-7.364	0.000	0.580
133.33	-19.06	-31.26	0.00	-821.03	0.00	821.03	2433.35	584.51	1465.64	1487.53	95.65	-7.445	0.000	0.563
134.00	-18.84	-31.17	0.00	-800.19	0.00	800.19	2424.17	581.30	1449.58	1473.69	96.69	-7.484	0.000	0.554
136.00	-18.28	-30.87	0.00	-737.85	0.00	737.85	2396.35	571.66	1401.92	1432.35	99.84	-7.600	0.000	0.526
138.00	-17.73	-30.56	0.00	-676.12	0.00	676.12	1545.45	417.14	1026.36	929.77	103.04	-7.712	0.000	0.744
140.00	-14.93	-26.43	0.00	-614.99	0.00	614.99	1531.69	410.13	992.17	905.88	106.29	-7.819	0.000	0.693
142.00	-14.64	-26.17	0.00	-562.12	0.00	562.12	1517.50	403.12	958.56	882.03	109.58	-7.952	0.000	0.651
144.00	-14.37	-25.92	0.00	-509.77	0.00	509.77	1502.90	396.11	925.52	858.22	112.93	-8.080	0.000	0.608
146.00	-14.10	-25.66	0.00	-457.94	0.00	457.94	1487.88	389.11	893.06	834.49	116.33	-8.202	0.000	0.563
148.00	-13.83	-25.40	0.00	-406.63	0.00	406.63	1472.45	382.10	861.19	810.82	119.78	-8.316	0.000	0.515
150.00	-11.17	-19.99	0.00	-355.82	0.00	355.82	1456.60	375.09	829.89	787.25	123.28	-8.423	0.000	0.462
152.00	-10.95	-19.74	0.00	-315.84	0.00	315.84	1440.33	368.08	799.17	763.78	126.82	-8.522	0.000	0.424
154.00	-10.74	-19.49	0.00	-276.36	0.00	276.36	1423.65	361.08	769.03	740.42	130.39	-8.615	0.000	0.384
156.00	-10.53	-19.24	0.00	-237.38	0.00	237.38	1406.55	354.07	739.47	717.20	134.01	-8.700	0.000	0.341
158.00	-8.52	-16.98	0.00	-198.90	0.00	198.90	1389.03	347.06	710.49	694.11	137.66	-8.777	0.000	0.295
160.00	-7.85	-14.14	0.00	-164.93	0.00	164.93	1371.10	340.05	682.09	671.17	141.33	-8.845	0.000	0.253
162.00	-7.70	-13.91	0.00	-136.65	0.00	136.65	1352.75	333.05	654.27	648.41	145.04	-8.905	0.000	0.218
164.00	-7.56	-13.67	0.00	-108.84	0.00	108.84	1333.98	326.04	627.03	625.81	148.77	-8.957	0.000	0.181
166.00	-3.90	-7.32	0.00	-81.50	0.00	81.50	1314.79	319.03	600.37	603.42	152.51	-9.000	0.000	0.139
168.00	-3.77	-7.09	0.00	-66.86	0.00	66.86	1295.19	312.03	574.28	581.22	156.27	-9.035	0.000	0.118
170.00	-3.65	-6.86	0.00	-52.69	0.00	52.69	1275.17	305.02	548.78	559.24	160.05	-9.066	0.000	0.098
172.00	-3.53	-6.64	0.00	-38.96	0.00	38.96	1251.65	298.01	523.85	536.17	163.84	-9.091	0.000	0.076
174.00	-3.42	-6.42	0.00	-25.68	0.00	25.68	1222.21	291.00	499.51	511.11	167.64	-9.110	0.000	0.054
176.00	-3.31	-6.21	0.00	-12.83	0.00	12.83	1192.78	284.00	475.74	486.64	171.44	-9.122	0.000	0.030
178.00	-0.10	-0.20	0.00	-0.41	0.00	0.41	1163.35	276.99	452.55	462.78	175.25	-9.127	0.000	0.001
180.00	0.00	-0.18	0.00	0.00	0.00	0.00	1133.92	269.98	429.95	439.52	179.05	-9.127	0.000	0.000

Wind Loading - Shaft

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (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	

Load Case: 0.9D + 1.0W 123 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.00

Iterations 29

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	31.009	34.11	603.99	0.950	0.000	0.00	0.000	0.00	0.0	0.0	0.0
2.00		1.00	0.85	31.009	34.11	599.16	0.950	0.000	2.00	10.655	10.12	345.3	0.0	529.1
4.00		1.00	0.85	31.009	34.11	594.33	0.950	0.000	2.00	10.569	10.04	342.5	0.0	524.8
6.00		1.00	0.85	31.009	34.11	589.49	0.950	0.000	2.00	10.484	9.96	339.7	0.0	520.5
8.00		1.00	0.85	31.009	34.11	584.66	0.950	0.000	2.00	10.398	9.88	337.0	0.0	516.2
10.00		1.00	0.85	31.009	34.11	579.83	0.950	0.000	2.00	10.313	9.80	334.2	0.0	511.9
12.00		1.00	0.85	31.009	34.11	575.00	0.950	0.000	2.00	10.227	9.72	331.4	0.0	507.7
14.00		1.00	0.85	31.009	34.11	570.17	0.950	0.000	2.00	10.142	9.63	328.6	0.0	503.4
16.00		1.00	0.86	31.392	34.53	568.81	0.950	0.000	2.00	10.056	9.55	329.9	0.0	499.1
18.00		1.00	0.88	32.180	35.40	570.99	0.950	0.000	2.00	9.970	9.47	335.3	0.0	494.8
20.00		1.00	0.90	32.902	36.19	572.38	0.950	0.000	2.00	9.885	9.39	339.9	0.0	490.5
22.00		1.00	0.92	33.569	36.93	573.12	0.950	0.000	2.00	9.799	9.31	343.8	0.0	486.3
24.00		1.00	0.94	34.189	37.61	573.32	0.950	0.000	2.00	9.714	9.23	347.0	0.0	482.0
26.00		1.00	0.95	34.770	38.25	573.06	0.950	0.000	2.00	9.628	9.15	349.8	0.0	477.7
28.00		1.00	0.97	35.317	38.85	572.39	0.950	0.000	2.00	9.542	9.07	352.2	0.0	473.4
30.00		1.00	0.98	35.834	39.42	571.37	0.950	0.000	2.00	9.457	8.98	354.1	0.0	469.1
32.00		1.00	1.00	36.324	39.96	570.03	0.950	0.000	2.00	9.371	8.90	355.7	0.0	464.9
34.00		1.00	1.01	36.791	40.47	568.42	0.950	0.000	2.00	9.286	8.82	357.0	0.0	460.6
36.00		1.00	1.02	37.236	40.96	566.55	0.950	0.000	2.00	9.200	8.74	358.0	0.0	456.3
38.00		1.00	1.03	37.662	41.43	564.46	0.950	0.000	2.00	9.115	8.66	358.7	0.0	452.0
40.00		1.00	1.04	38.071	41.88	562.16	0.950	0.000	2.00	9.029	8.58	359.2	0.0	447.7
42.00		1.00	1.05	38.464	42.31	559.68	0.950	0.000	2.00	8.943	8.50	359.5	0.0	443.5
43.92	Bot - Section 2	1.00	1.06	38.827	42.71	557.13	0.950	0.000	1.92	8.490	8.07	344.5	0.0	421.0
44.00		1.00	1.06	38.843	42.73	557.02	0.950	0.000	0.08	0.373	0.35	15.1	0.0	35.4
46.00		1.00	1.07	39.208	43.13	554.19	0.950	0.000	2.00	8.912	8.47	365.2	0.0	845.5
48.00		1.00	1.08	39.561	43.52	551.23	0.950	0.000	2.00	8.827	8.39	364.9	0.0	837.2
50.00		1.00	1.09	39.902	43.89	548.12	0.950	0.000	2.00	8.741	8.30	364.5	0.0	829.0
51.00	Top - Section 1	1.00	1.10	40.069	44.08	546.52	0.950	0.000	1.00	4.339	4.12	181.7	0.0	411.4
52.00		1.00	1.10	40.233	44.26	553.90	0.950	0.000	1.00	4.317	4.10	181.5	0.0	198.8
54.00		1.00	1.11	40.554	44.61	550.58	0.950	0.000	2.00	8.570	8.14	363.2	0.0	394.7
56.00		1.00	1.12	40.866	44.95	547.14	0.950	0.000	2.00	8.485	8.06	362.3	0.0	390.7
58.00		1.00	1.13	41.169	45.29	543.60	0.950	0.000	2.00	8.399	7.98	361.3	0.0	386.8
60.00		1.00	1.14	41.464	45.61	539.95	0.950	0.000	2.00	8.313	7.90	360.2	0.0	382.8
62.00		1.00	1.14	41.751	45.93	536.21	0.950	0.000	2.00	8.228	7.82	359.0	0.0	378.8
64.00		1.00	1.15	42.031	46.23	532.38	0.950	0.000	2.00	8.142	7.74	357.6	0.0	374.8
66.00		1.00	1.16	42.304	46.53	528.47	0.950	0.000	2.00	8.057	7.65	356.2	0.0	370.9
68.00		1.00	1.17	42.571	46.83	524.47	0.950	0.000	2.00	7.971	7.57	354.6	0.0	366.9
70.00		1.00	1.17	42.831	47.11	520.39	0.950	0.000	2.00	7.885	7.49	352.9	0.0	362.9
72.00		1.00	1.18	43.086	47.39	516.24	0.950	0.000	2.00	7.800	7.41	351.2	0.0	358.9
74.00		1.00	1.19	43.335	47.67	512.02	0.950	0.000	2.00	7.714	7.33	349.3	0.0	355.0
76.00		1.00	1.19	43.579	47.94	507.73	0.950	0.000	2.00	7.629	7.25	347.4	0.0	351.0
78.00		1.00	1.20	43.818	48.20	503.38	0.950	0.000	2.00	7.543	7.17	345.4	0.0	347.0
80.00		1.00	1.21	44.053	48.46	498.96	0.950	0.000	2.00	7.458	7.08	343.3	0.0	343.0
82.00		1.00	1.21	44.282	48.71	494.49	0.950	0.000	2.00	7.372	7.00	341.1	0.0	339.1
84.00		1.00	1.22	44.507	48.96	489.96	0.950	0.000	2.00	7.286	6.92	338.9	0.0	335.1
86.00		1.00	1.23	44.728	49.20	485.37	0.950	0.000	2.00	7.201	6.84	336.6	0.0	331.1
88.00		1.00	1.23	44.945	49.44	480.73	0.950	0.000	2.00	7.115	6.76	334.2	0.0	327.1

Wind Loading - Shaft

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (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	

90.00	1.00	1.24	45.159	49.67	476.03	0.950	0.000	2.00	7.030	6.68	331.7	0.0	323.2
90.17 Bot - Section 3	1.00	1.24	45.176	49.69	475.64	0.950	0.000	0.17	0.582	0.55	27.5	0.0	26.8
92.00	1.00	1.24	45.368	49.90	471.29	0.950	0.000	1.83	6.471	6.15	306.8	0.0	544.6
94.00	1.00	1.25	45.574	50.13	466.50	0.950	0.000	2.00	6.977	6.63	332.3	0.0	587.0
96.00 Top - Section 2	1.00	1.25	45.776	50.35	461.67	0.950	0.000	2.00	6.891	6.55	329.7	0.0	579.7
98.00	1.00	1.26	45.975	50.57	464.94	0.950	0.000	2.00	6.806	6.47	327.0	0.0	265.1
100.00	1.00	1.27	46.171	50.79	460.03	0.950	0.000	2.00	6.720	6.38	324.2	0.0	261.7
102.00	1.00	1.27	46.364	51.00	455.09	0.950	0.000	2.00	6.635	6.30	321.5	0.0	258.4
104.00	1.00	1.28	46.554	51.21	450.10	0.950	0.000	2.00	6.549	6.22	318.6	0.0	255.0
106.00	1.00	1.28	46.741	51.42	445.07	0.950	0.000	2.00	6.464	6.14	315.7	0.0	251.6
108.00	1.00	1.29	46.926	51.62	440.00	0.950	0.000	2.00	6.378	6.06	312.8	0.0	248.3
110.00	1.00	1.29	47.107	51.82	434.90	0.950	0.000	2.00	6.292	5.98	309.8	0.0	244.9
112.00	1.00	1.30	47.286	52.01	429.75	0.950	0.000	2.00	6.207	5.90	306.7	0.0	241.5
114.00	1.00	1.30	47.463	52.21	424.58	0.950	0.000	2.00	6.121	5.82	303.6	0.0	238.2
116.00	1.00	1.31	47.637	52.40	419.37	0.950	0.000	2.00	6.036	5.73	300.5	0.0	234.8
118.00	1.00	1.31	47.809	52.59	414.12	0.950	0.000	2.00	5.950	5.65	297.3	0.0	231.5
120.00	1.00	1.32	47.978	52.78	408.85	0.950	0.000	2.00	5.864	5.57	294.0	0.0	228.1
122.00	1.00	1.32	48.145	52.96	403.54	0.950	0.000	2.00	5.779	5.49	290.7	0.0	224.7
124.00	1.00	1.32	48.310	53.14	398.20	0.950	0.000	2.00	5.693	5.41	287.4	0.0	221.4
126.00	1.00	1.33	48.473	53.32	392.83	0.950	0.000	2.00	5.608	5.33	284.1	0.0	218.0
128.00	1.00	1.33	48.634	53.50	387.43	0.950	0.000	2.00	5.522	5.25	280.7	0.0	214.6
130.00	1.00	1.34	48.793	53.67	382.00	0.950	0.000	2.00	5.437	5.16	277.2	0.0	211.3
132.00	1.00	1.34	48.950	53.85	376.54	0.950	0.000	2.00	5.351	5.08	273.7	0.0	207.9
133.33 Bot - Section 4	1.00	1.34	49.054	53.96	372.89	0.950	0.000	1.33	3.520	3.34	180.4	0.0	136.7
134.00	1.00	1.35	49.106	54.02	371.06	0.950	0.000	0.67	1.774	1.69	91.1	0.0	118.1
136.00	1.00	1.35	49.259	54.19	365.55	0.950	0.000	2.00	5.266	5.00	271.1	0.0	350.4
138.00 Top - Section 3	1.00	1.35	49.411	54.35	360.01	0.950	0.000	2.00	5.181	4.92	267.5	0.0	344.6
140.00 Appurtenance(s)	1.00	1.36	49.561	54.52	360.61	0.950	0.000	2.00	5.095	4.84	263.9	0.0	144.4
142.00	1.00	1.36	49.709	54.68	355.03	0.950	0.000	2.00	5.009	4.76	260.2	0.0	141.9
144.00	1.00	1.37	49.855	54.84	349.42	0.950	0.000	2.00	4.924	4.68	256.5	0.0	139.5
146.00	1.00	1.37	50.000	55.00	343.80	0.950	0.000	2.00	4.838	4.60	252.8	0.0	137.0
148.00	1.00	1.37	50.144	55.16	338.14	0.950	0.000	2.00	4.753	4.51	249.0	0.0	134.6
150.00 Appurtenance(s)	1.00	1.38	50.286	55.31	332.47	0.950	0.000	2.00	4.667	4.43	245.2	0.0	132.1
152.00	1.00	1.38	50.426	55.47	326.77	0.950	0.000	2.00	4.581	4.35	241.4	0.0	129.7
154.00	1.00	1.39	50.565	55.62	321.05	0.950	0.000	2.00	4.496	4.27	237.6	0.0	127.2
156.00	1.00	1.39	50.703	55.77	315.31	0.950	0.000	2.00	4.410	4.19	233.7	0.0	124.8
158.00 Appurtenance(s)	1.00	1.39	50.839	55.92	309.54	0.950	0.000	2.00	4.325	4.11	229.8	0.0	122.3
160.00 Appurtenance(s)	1.00	1.40	50.974	56.07	303.76	0.950	0.000	2.00	4.239	4.03	225.8	0.0	119.9
162.00	1.00	1.40	51.107	56.22	297.95	0.950	0.000	2.00	4.154	3.95	221.8	0.0	117.5
164.00	1.00	1.40	51.239	56.36	292.13	0.950	0.000	2.00	4.068	3.86	217.8	0.0	115.0
166.00 Appurtenance(s)	1.00	1.41	51.370	56.51	286.28	0.950	0.000	2.00	3.982	3.78	213.8	0.0	112.6
168.00	1.00	1.41	51.500	56.65	280.42	0.950	0.000	2.00	3.897	3.70	209.7	0.0	110.1
170.00	1.00	1.42	51.628	56.79	274.53	0.950	0.000	2.00	3.811	3.62	205.6	0.0	107.7
172.00	1.00	1.42	51.756	56.93	268.63	0.950	0.000	2.00	3.726	3.54	201.5	0.0	105.2
174.00	1.00	1.42	51.882	57.07	262.70	0.950	0.000	2.00	3.640	3.46	197.3	0.0	102.8
176.00	1.00	1.43	52.007	57.21	256.76	0.950	0.000	2.00	3.554	3.38	193.2	0.0	100.3
178.00 Appurtenance(s)	1.00	1.43	52.131	57.34	250.80	0.950	0.000	2.00	3.469	3.30	189.0	0.0	97.9
180.00	1.00	1.43	52.253	57.48	244.83	0.950	0.000	2.00	3.383	3.21	184.7	0.0	95.4
							Totals:	**180.00**			**27,684.8**		**30,072.5**

Discrete Appurtenance Forces

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (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: 0.9D + 1.0W 123 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.00

Iterations 29

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	178.00	JMA MX06FRO660-03	6	52.131	57.344	0.65	0.75	38.64	324.00	0.000	0.000	2215.82	0.00	0.00
2	178.00	Raycap	1	52.131	57.344	0.67	0.75	1.74	28.80	0.000	0.000	99.90	0.00	0.00
3	178.00	Samsung B5/B13 RRH	3	52.131	57.344	0.38	0.75	2.11	189.81	0.000	0.000	121.28	0.00	0.00
4	178.00	Platform w/ Handrails w/	1	52.131	57.344	1.00	1.00	40.00	1981.98	0.000	0.000	2293.75	0.00	0.00
5	178.00	Samsung VZS01	3	52.131	57.344	0.52	0.75	6.68	235.17	0.000	0.000	382.81	0.00	0.00
6	178.00	Samsung B2/B66A RRH	3	52.131	57.344	0.38	0.75	2.11	227.88	0.000	0.000	121.28	0.00	0.00
7	166.00	ALU 1900 Mhz	3	51.370	56.507	0.38	0.75	2.59	118.80	0.000	0.000	146.21	0.00	0.00
8	166.00	Platform w/ Hand Rails	1	51.370	56.507	1.00	1.00	40.00	1800.00	0.000	0.000	2260.29	0.00	0.00
9	166.00	RFS APXVTM14-C-I20	3	51.370	56.507	0.58	0.75	10.98	151.74	0.000	0.000	620.68	0.00	0.00
10	166.00	Commscope	3	51.370	56.507	0.55	0.75	20.43	208.98	0.000	0.000	1154.42	0.00	0.00
11	166.00	ALU TD-RRH8x20-25	3	51.370	56.507	0.38	0.75	4.56	189.00	0.000	0.000	257.46	0.00	0.00
12	166.00	ALU 800 Mhz	6	51.370	56.507	0.38	0.75	4.95	286.20	0.000	0.000	279.71	0.00	0.00
13	166.00	Sitepro	1	51.370	56.507	1.00	1.00	6.70	207.00	0.000	0.000	378.60	0.00	0.00
14	166.00	Sitepro	1	51.370	56.507	1.00	1.00	7.00	365.95	0.000	0.000	395.55	0.00	0.00
15	160.00	RR90-17-00VDPL2/-R	3	50.974	56.071	0.54	0.80	7.12	36.45	0.000	0.000	398.97	0.00	0.00
16	160.00	4449 B71+B12	3	50.974	56.071	0.40	0.80	1.98	189.00	0.000	0.000	111.02	0.00	0.00
17	160.00	KRY 112 144/2	3	50.974	56.071	0.40	0.80	0.49	41.58	0.000	0.000	27.59	0.00	0.00
18	160.00	KRY 112 489/2	3	50.974	56.071	0.40	0.80	0.78	41.58	0.000	0.000	43.74	0.00	0.00
19	160.00	APXVAARR24_43-U-NA2	3	50.974	56.071	0.56	0.80	34.00	345.60	0.000	0.000	1906.59	0.00	0.00
20	158.00	V-Brace	1	50.839	55.923	0.75	0.75	4.72	177.30	0.000	0.000	264.23	0.00	0.00
21	158.00	T-Arm Kit	1	50.839	55.923	0.75	0.75	12.38	450.00	0.000	0.000	692.04	0.00	0.00
22	158.00	T-Arms	3	50.839	55.923	0.56	0.75	13.50	945.00	0.000	0.000	754.96	0.00	0.00
23	150.00	DMP65R-BU6DA	2	50.286	55.314	0.54	0.75	13.73	142.92	0.000	0.000	759.29	0.00	0.00
24	150.00	Powerwave 7770	3	50.286	55.314	0.55	0.75	9.05	94.50	0.000	0.000	500.60	0.00	0.00
25	150.00	DMP65R-BU4DA	1	50.286	55.314	0.54	0.75	4.47	71.46	0.000	0.000	247.32	0.00	0.00
26	150.00	Powerwave LGP21401	6	50.286	55.314	0.38	0.75	1.84	76.14	0.000	0.000	102.05	0.00	0.00
27	150.00	B2 B66A 8843	3	50.286	55.314	0.38	0.75	1.84	189.00	0.000	0.000	102.05	0.00	0.00
28	150.00	Raycap DC6-48-60-18-8F	1	50.286	55.314	0.67	1.00	1.21	28.62	0.000	0.000	67.08	0.00	0.00
29	150.00	Platform w/ Hand Rail	1	50.286	55.314	1.00	1.00	35.00	1440.00	0.000	0.000	1936.00	0.00	0.00
30	150.00	Cci HPA-65R-BUU-H6	2	50.286	55.314	0.64	0.75	12.32	91.80	0.000	0.000	681.28	0.00	0.00
31	150.00	SBNHH-1D65A	1	50.286	55.314	0.75	0.75	4.41	30.15	0.000	0.000	243.94	0.00	0.00
32	150.00	4449 B5/B12	3	50.286	55.314	0.38	0.75	1.86	191.70	0.000	0.000	102.68	0.00	0.00
33	140.00	Raycap	1	49.561	54.517	0.59	0.75	1.19	19.71	0.000	0.000	64.93	0.00	0.00
34	140.00	Fujitsu TA08025-B604	3	49.561	54.517	0.38	0.75	2.21	172.53	0.000	0.000	120.21	0.00	0.00
35	140.00	Fujitsu TA08025-B605	3	49.561	54.517	0.38	0.75	2.21	202.50	0.000	0.000	120.21	0.00	0.00
36	140.00	Sitepro1 SNP8HR-3XX	1	49.561	54.517	1.00	1.00	37.59	1688.40	0.000	0.000	2049.28	0.00	0.00
37	140.00	JMA Wireless	3	49.561	54.517	0.55	0.75	20.80	174.15	0.000	0.000	1133.72	0.00	0.00
							Totals:		**13,155.40**			**23,157.56**		

Total Applied Force Summary

Structure:	CT46130-A-SBA		**Code:**	EIA/TIA-222-H	5/21/2021
Site Name:	Deep River-winthrop Rd		**Exposure:**	C	
Height:	180.00 (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: 0.9D + 1.0W 123 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.00

Iterations 29

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
2.00		345.27	531.42	0.00	0.00
4.00		342.50	554.49	0.00	0.00
6.00		339.73	577.56	0.00	0.00
8.00		336.95	573.28	0.00	0.00
10.00		334.18	569.00	0.00	0.00
12.00		331.41	564.72	0.00	0.00
14.00		328.63	560.44	0.00	0.00
16.00		329.88	556.16	0.00	0.00
18.00		335.29	551.88	0.00	0.00
20.00		339.86	547.60	0.00	0.00
22.00		343.75	543.32	0.00	0.00
24.00		347.05	539.04	0.00	0.00
26.00		349.84	534.76	0.00	0.00
28.00		352.18	530.48	0.00	0.00
30.00		354.13	526.20	0.00	0.00
32.00		355.72	521.92	0.00	0.00
34.00		357.00	517.64	0.00	0.00
36.00		357.99	513.36	0.00	0.00
38.00		358.72	509.08	0.00	0.00
40.00		359.21	504.80	0.00	0.00
42.00		359.48	500.52	0.00	0.00
43.92		344.50	475.65	0.00	0.00
44.00		15.15	37.79	0.00	0.00
46.00		365.16	902.56	0.00	0.00
48.00		364.91	894.31	0.00	0.00
50.00		364.49	886.05	0.00	0.00
51.00		181.66	439.93	0.00	0.00
52.00		181.51	227.37	0.00	0.00
54.00		363.19	451.76	0.00	0.00
56.00		362.33	447.79	0.00	0.00
58.00		361.33	443.81	0.00	0.00
60.00		360.21	439.84	0.00	0.00
62.00		358.98	435.86	0.00	0.00
64.00		357.62	431.89	0.00	0.00
66.00		356.16	427.92	0.00	0.00
68.00		354.60	423.94	0.00	0.00
70.00		352.94	419.97	0.00	0.00
72.00		351.19	415.99	0.00	0.00
74.00		349.34	412.02	0.00	0.00
76.00		347.41	408.05	0.00	0.00
78.00		345.40	404.07	0.00	0.00
80.00		343.31	400.10	0.00	0.00
82.00		341.14	396.12	0.00	0.00
84.00		338.89	392.15	0.00	0.00
86.00		336.57	388.18	0.00	0.00
88.00		334.19	384.20	0.00	0.00

Total Applied Force Summary

Structure:	CT46130-A-SBA		**Code:**	EIA/TIA-222-H	5/21/2021
Site Name:	Deep River-winthrop Rd		**Exposure:**	C	
Height:	180.00 (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

90.00		331.73	380.23	0.00	0.00
90.17		27.47	31.51	0.00	0.00
92.00		306.78	596.86	0.00	0.00
94.00		332.28	644.09	0.00	0.00
96.00		329.66	636.75	0.00	0.00
98.00		326.99	322.14	0.00	0.00
100.00		324.25	318.78	0.00	0.00
102.00		321.46	315.42	0.00	0.00
104.00		318.61	312.05	0.00	0.00
106.00		315.71	308.69	0.00	0.00
108.00		312.76	305.33	0.00	0.00
110.00		309.76	301.97	0.00	0.00
112.00		306.70	298.60	0.00	0.00
114.00		303.61	295.24	0.00	0.00
116.00		300.46	291.88	0.00	0.00
118.00		297.27	288.52	0.00	0.00
120.00		294.03	285.15	0.00	0.00
122.00		290.75	281.79	0.00	0.00
124.00		287.42	278.43	0.00	0.00
126.00		284.06	275.07	0.00	0.00
128.00		280.65	271.70	0.00	0.00
130.00		277.21	268.34	0.00	0.00
132.00		273.72	264.98	0.00	0.00
133.33		180.43	174.78	0.00	0.00
134.00		91.05	137.12	0.00	0.00
136.00		271.08	407.50	0.00	0.00
138.00		267.49	401.69	0.00	0.00
140.00	(11) attachments	3752.22	2458.71	0.00	0.00
142.00		260.21	197.17	0.00	0.00
144.00		256.52	194.73	0.00	0.00
146.00		252.80	192.28	0.00	0.00
148.00		249.04	189.83	0.00	0.00
150.00	(23) attachments	4987.54	2543.68	0.00	0.00
152.00		241.42	167.00	0.00	0.00
154.00		237.56	164.55	0.00	0.00
156.00		233.68	162.11	0.00	0.00
158.00	(5) attachments	1940.99	1731.96	0.00	0.00
160.00	(15) attachments	2713.72	811.43	0.00	0.00
162.00		221.83	130.43	0.00	0.00
164.00		217.82	127.99	0.00	0.00
166.00	(21) attachments	5706.70	3453.21	0.00	0.00
168.00		209.71	116.23	0.00	0.00
170.00		205.62	113.78	0.00	0.00
172.00		201.50	111.34	0.00	0.00
174.00		197.35	108.89	0.00	0.00
176.00		193.17	106.45	0.00	0.00
178.00	(17) attachments	5423.82	3091.64	0.00	0.00
180.00		184.74	97.81	0.00	0.00
	Totals:	**50,842.34**	**47,680.77**	**0.00**	**0.00**

Linear Appurtenance Segment Forces (Factored)

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (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	

Load Case: 0.9D + 1.0W 123 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.00

Iterations 29

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)
2.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	31.009	0.00	0.49
2.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	31.009	0.00	1.87
4.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	31.009	0.00	0.49
4.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	31.009	0.00	1.87
6.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	31.009	0.00	0.49
6.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	31.009	0.00	1.87
8.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	31.009	0.00	0.49
8.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	31.009	0.00	1.87
10.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	31.009	0.00	0.49
10.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	31.009	0.00	1.87
12.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	31.009	0.00	0.49
12.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	31.009	0.00	1.87
14.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	31.009	0.00	0.49
14.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	31.009	0.00	1.87
16.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	31.392	0.00	0.49
16.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	31.392	0.00	1.87
18.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	32.180	0.00	0.49
18.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	32.180	0.00	1.87
20.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	32.902	0.00	0.49
20.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	32.902	0.00	1.87
22.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	33.569	0.00	0.49
22.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	33.569	0.00	1.87
24.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	34.189	0.00	0.49
24.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	34.189	0.00	1.87
26.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	34.770	0.00	0.49
26.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	34.770	0.00	1.87
28.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	35.317	0.00	0.49
28.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	35.317	0.00	1.87
30.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	35.834	0.00	0.49
30.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	35.834	0.00	1.87
32.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	36.324	0.00	0.49
32.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	36.324	0.00	1.87
34.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	36.791	0.00	0.49
34.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	36.791	0.00	1.87
36.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	37.236	0.00	0.49
36.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	37.236	0.00	1.87
38.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	37.662	0.00	0.49
38.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	37.662	0.00	1.87
40.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	38.071	0.00	0.49
40.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	38.071	0.00	1.87
42.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	38.464	0.00	0.49
42.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	38.464	0.00	1.87
43.92	Safety Cable	Yes	1.92	0.000	0.00	0.00	0.00	0.000	0.000	38.827	0.00	0.47
43.92	Step bolts (ladder)	Yes	1.92	0.000	0.00	0.00	0.00	0.000	0.000	38.827	0.00	1.79
44.00	Safety Cable	Yes	0.08	0.000	0.00	0.00	0.00	0.000	0.000	38.843	0.00	0.02
44.00	Step bolts (ladder)	Yes	0.08	0.000	0.00	0.00	0.00	0.000	0.000	38.843	0.00	0.08
46.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	39.208	0.00	0.49

Linear Appurtenance Segment Forces (Factored)

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (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: 0.9D + 1.0W 123 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.00

Iterations 29

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)
46.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	39.208	0.00	1.87
48.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	39.561	0.00	0.49
48.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	39.561	0.00	1.87
50.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	39.902	0.00	0.49
50.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	39.902	0.00	1.87
51.00	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	40.069	0.00	0.25
51.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	40.069	0.00	0.94
52.00	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	40.233	0.00	0.25
52.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	40.233	0.00	0.94
54.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	40.554	0.00	0.49
54.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	40.554	0.00	1.87
56.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	40.866	0.00	0.49
56.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	40.866	0.00	1.87
58.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	41.169	0.00	0.49
58.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	41.169	0.00	1.87
60.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	41.464	0.00	0.49
60.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	41.464	0.00	1.87
62.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	41.751	0.00	0.49
62.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	41.751	0.00	1.87
64.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	42.031	0.00	0.49
64.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	42.031	0.00	1.87
66.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	42.304	0.00	0.49
66.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	42.304	0.00	1.87
68.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	42.571	0.00	0.49
68.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	42.571	0.00	1.87
70.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	42.831	0.00	0.49
70.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	42.831	0.00	1.87
72.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	43.086	0.00	0.49
72.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	43.086	0.00	1.87
74.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	43.335	0.00	0.49
74.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	43.335	0.00	1.87
76.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	43.579	0.00	0.49
76.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	43.579	0.00	1.87
78.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	43.818	0.00	0.49
78.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	43.818	0.00	1.87
80.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	44.053	0.00	0.49
80.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	44.053	0.00	1.87
82.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	44.282	0.00	0.49
82.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	44.282	0.00	1.87
84.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	44.507	0.00	0.49
84.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	44.507	0.00	1.87
86.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	44.728	0.00	0.49
86.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	44.728	0.00	1.87
88.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	44.945	0.00	0.49
88.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	44.945	0.00	1.87
90.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	45.159	0.00	0.49
90.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	45.159	0.00	1.87

Linear Appurtenance Segment Forces (Factored)

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (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	

Load Case: 0.9D + 1.0W 123 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.00

Iterations 29

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)
90.17	Safety Cable	Yes	0.17	0.000	0.00	0.00	0.00	0.000	0.000	45.176	0.00	0.04
90.17	Step bolts (ladder)	Yes	0.17	0.000	0.00	0.00	0.00	0.000	0.000	45.176	0.00	0.16
92.00	Safety Cable	Yes	1.83	0.000	0.00	0.00	0.00	0.000	0.000	45.368	0.00	0.45
92.00	Step bolts (ladder)	Yes	1.83	0.000	0.00	0.00	0.00	0.000	0.000	45.368	0.00	1.72
94.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	45.574	0.00	0.49
94.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	45.574	0.00	1.87
96.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	45.776	0.00	0.49
96.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	45.776	0.00	1.87
98.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	45.975	0.00	0.49
98.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	45.975	0.00	1.87
100.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	46.171	0.00	0.49
100.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	46.171	0.00	1.87
102.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	46.364	0.00	0.49
102.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	46.364	0.00	1.87
104.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	46.554	0.00	0.49
104.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	46.554	0.00	1.87
106.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	46.741	0.00	0.49
106.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	46.741	0.00	1.87
108.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	46.926	0.00	0.49
108.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	46.926	0.00	1.87
110.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	47.107	0.00	0.49
110.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	47.107	0.00	1.87
112.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	47.286	0.00	0.49
112.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	47.286	0.00	1.87
114.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	47.463	0.00	0.49
114.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	47.463	0.00	1.87
116.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	47.637	0.00	0.49
116.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	47.637	0.00	1.87
118.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	47.809	0.00	0.49
118.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	47.809	0.00	1.87
120.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	47.978	0.00	0.49
120.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	47.978	0.00	1.87
122.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	48.145	0.00	0.49
122.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	48.145	0.00	1.87
124.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	48.310	0.00	0.49
124.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	48.310	0.00	1.87
126.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	48.473	0.00	0.49
126.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	48.473	0.00	1.87
128.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	48.634	0.00	0.49
128.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	48.634	0.00	1.87
130.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	48.793	0.00	0.49
130.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	48.793	0.00	1.87
132.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	48.950	0.00	0.49
132.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	48.950	0.00	1.87
133.33	Safety Cable	Yes	1.33	0.000	0.00	0.00	0.00	0.000	0.000	49.054	0.00	0.33
133.33	Step bolts (ladder)	Yes	1.33	0.000	0.00	0.00	0.00	0.000	0.000	49.054	0.00	1.25
134.00	Safety Cable	Yes	0.67	0.000	0.00	0.00	0.00	0.000	0.000	49.106	0.00	0.16

Linear Appurtenance Segment Forces (Factored)

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (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	

Load Case: 0.9D + 1.0W 123 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.00

Iterations 29

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)
134.00	Step bolts (ladder)	Yes	0.67	0.000	0.00	0.00	0.00	0.000	0.000	49.106	0.00	0.62
136.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	49.259	0.00	0.49
136.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	49.259	0.00	1.87
138.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	49.411	0.00	0.49
138.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	49.411	0.00	1.87
140.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	49.561	0.00	0.49
140.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	49.561	0.00	1.87
142.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	49.709	0.00	0.49
142.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	49.709	0.00	1.87
144.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	49.855	0.00	0.49
144.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	49.855	0.00	1.87
146.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	50.000	0.00	0.49
146.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	50.000	0.00	1.87
148.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	50.144	0.00	0.49
148.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	50.144	0.00	1.87
150.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	50.286	0.00	0.49
150.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	50.286	0.00	1.87
152.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	50.426	0.00	0.49
152.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	50.426	0.00	1.87
154.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	50.565	0.00	0.49
154.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	50.565	0.00	1.87
156.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	50.703	0.00	0.49
156.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	50.703	0.00	1.87
158.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	50.839	0.00	0.49
158.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	50.839	0.00	1.87
160.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	50.974	0.00	0.49
160.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	50.974	0.00	1.87
162.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	51.107	0.00	0.49
162.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	51.107	0.00	1.87
164.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	51.239	0.00	0.49
164.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	51.239	0.00	1.87
166.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	51.370	0.00	0.49
166.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	51.370	0.00	1.87
168.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	51.500	0.00	0.49
168.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	51.500	0.00	1.87
170.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	51.628	0.00	0.49
170.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	51.628	0.00	1.87
172.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	51.756	0.00	0.49
172.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	51.756	0.00	1.87
174.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	51.882	0.00	0.49
174.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	51.882	0.00	1.87
176.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	52.007	0.00	0.49
176.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	52.007	0.00	1.87
178.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	52.131	0.00	0.49
178.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	52.131	0.00	1.87
180.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	52.253	0.00	0.49
180.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	52.253	0.00	1.87

Linear Appurtenance Segment Forces (Factored)

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (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	

Load Case: 0.9D + 1.0W 123 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.00

Iterations 29

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)
										Totals:	**0.0**	**212.7**

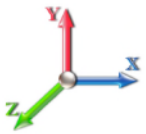
Calculated Forces

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (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	

Load Case: 0.9D + 1.0W 123 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.00



Iterations 29

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-47.64	-50.88	0.00	-6250.3	0.00	6250.37	5123.29	1522.04	7808.40	6435.29	0.00	0.000	0.000	0.982
2.00	-47.04	-50.60	0.00	-6148.6	0.00	6148.62	5107.67	1509.78	7683.09	6363.61	0.02	-0.084	0.000	0.977
4.00	-46.41	-50.33	0.00	-6047.4	0.00	6047.41	5091.62	1497.52	7558.79	6291.73	0.07	-0.169	0.000	0.971
6.00	-45.76	-50.05	0.00	-5946.7	0.00	5946.76	5075.16	1485.26	7435.50	6219.67	0.16	-0.254	0.000	0.966
8.00	-45.11	-49.78	0.00	-5846.6	0.00	5846.66	5058.29	1472.99	7313.22	6147.44	0.29	-0.340	0.000	0.961
10.00	-44.47	-49.51	0.00	-5747.1	0.00	5747.10	5041.00	1460.73	7191.96	6075.05	0.45	-0.427	0.000	0.956
12.00	-43.83	-49.24	0.00	-5648.0	0.00	5648.07	5023.29	1448.47	7071.72	6002.51	0.65	-0.514	0.000	0.951
14.00	-43.20	-48.98	0.00	-5549.5	0.00	5549.59	5005.16	1436.20	6952.48	5929.84	0.88	-0.603	0.000	0.946
16.00	-42.57	-48.71	0.00	-5451.6	0.00	5451.64	4986.62	1423.94	6834.27	5857.05	1.15	-0.691	0.000	0.940
18.00	-41.95	-48.43	0.00	-5354.2	0.00	5354.23	4967.66	1411.68	6717.06	5784.16	1.46	-0.781	0.000	0.935
20.00	-41.33	-48.15	0.00	-5257.3	0.00	5257.38	4948.29	1399.42	6600.87	5711.17	1.81	-0.871	0.000	0.930
22.00	-40.71	-47.86	0.00	-5161.0	0.00	5161.09	4928.49	1387.15	6485.69	5638.10	2.20	-0.962	0.000	0.925
24.00	-40.10	-47.57	0.00	-5065.3	0.00	5065.37	4908.28	1374.89	6371.53	5564.95	2.62	-1.054	0.000	0.920
26.00	-39.50	-47.27	0.00	-4970.2	0.00	4970.24	4887.66	1362.63	6258.37	5491.76	3.08	-1.146	0.000	0.914
28.00	-38.90	-46.97	0.00	-4875.7	0.00	4875.70	4866.62	1350.36	6146.24	5418.52	3.58	-1.239	0.000	0.909
30.00	-38.31	-46.67	0.00	-4781.7	0.00	4781.76	4845.16	1338.10	6035.11	5345.24	4.12	-1.333	0.000	0.904
32.00	-37.72	-46.36	0.00	-4688.4	0.00	4688.42	4823.28	1325.84	5925.00	5271.95	4.70	-1.427	0.000	0.898
34.00	-37.13	-46.05	0.00	-4595.7	0.00	4595.70	4800.99	1313.58	5815.91	5198.66	5.32	-1.522	0.000	0.893
36.00	-36.55	-45.74	0.00	-4503.5	0.00	4503.59	4778.28	1301.31	5707.83	5125.37	5.98	-1.618	0.000	0.888
38.00	-35.97	-45.43	0.00	-4412.1	0.00	4412.11	4755.15	1289.05	5600.76	5052.10	6.68	-1.715	0.000	0.882
40.00	-35.40	-45.12	0.00	-4321.2	0.00	4321.25	4731.61	1276.79	5494.70	4978.87	7.42	-1.813	0.000	0.877
42.00	-34.84	-44.80	0.00	-4231.0	0.00	4231.01	4707.65	1264.52	5389.66	4905.68	8.20	-1.911	0.000	0.871
43.92	-34.34	-44.47	0.00	-4145.1	0.00	4145.15	4684.30	1252.77	5289.95	4835.60	8.98	-2.006	0.000	0.866
44.00	-34.26	-44.48	0.00	-4141.4	0.00	4141.44	4683.27	1252.26	5285.64	4832.55	9.02	-2.010	0.000	0.866
46.00	-33.29	-44.15	0.00	-4052.4	0.00	4052.47	4658.48	1240.00	5182.62	4759.49	9.88	-2.110	0.000	0.860
48.00	-32.34	-43.80	0.00	-3964.1	0.00	3964.18	4633.27	1227.74	5080.62	4686.52	10.79	-2.210	0.000	0.854
50.00	-31.41	-43.45	0.00	-3876.5	0.00	3876.58	4607.64	1215.47	4979.64	4613.64	11.74	-2.312	0.000	0.848
51.00	-30.94	-43.28	0.00	-3833.1	0.00	3833.13	4157.28	1142.33	4736.69	4216.21	12.23	-2.363	0.000	0.918
52.00	-30.66	-43.13	0.00	-3789.8	0.00	3789.86	4146.96	1136.64	4689.60	4184.61	12.73	-2.415	0.000	0.914
54.00	-30.14	-42.80	0.00	-3703.6	0.00	3703.61	4126.01	1125.25	4596.10	4121.41	13.76	-2.520	0.000	0.907
56.00	-29.64	-42.47	0.00	-3618.0	0.00	3618.01	4104.64	1113.86	4503.55	4058.23	14.84	-2.626	0.000	0.900
58.00	-29.13	-42.15	0.00	-3533.0	0.00	3533.06	4082.85	1102.48	4411.95	3995.08	15.96	-2.732	0.000	0.893
60.00	-28.63	-41.82	0.00	-3448.7	0.00	3448.77	4060.64	1091.09	4321.28	3931.97	17.13	-2.840	0.000	0.886
62.00	-28.13	-41.49	0.00	-3365.1	0.00	3365.14	4038.02	1079.70	4231.55	3868.91	18.34	-2.948	0.000	0.878
64.00	-27.64	-41.16	0.00	-3282.1	0.00	3282.16	4014.98	1068.31	4142.77	3805.92	19.60	-3.057	0.000	0.871
66.00	-27.16	-40.84	0.00	-3199.8	0.00	3199.83	3991.52	1056.93	4054.92	3743.01	20.91	-3.166	0.000	0.863
68.00	-26.68	-40.51	0.00	-3118.1	0.00	3118.16	3967.65	1045.54	3968.02	3680.19	22.26	-3.277	0.000	0.856
70.00	-26.20	-40.19	0.00	-3037.1	0.00	3037.14	3943.36	1034.15	3882.06	3617.47	23.65	-3.388	0.000	0.848
72.00	-25.73	-39.86	0.00	-2956.7	0.00	2956.77	3918.66	1022.77	3797.04	3554.87	25.10	-3.500	0.000	0.840
74.00	-25.26	-39.54	0.00	-2877.0	0.00	2877.05	3893.54	1011.38	3712.96	3492.40	26.58	-3.612	0.000	0.832
76.00	-24.80	-39.21	0.00	-2797.9	0.00	2797.98	3868.00	999.99	3629.83	3430.07	28.12	-3.725	0.000	0.824
78.00	-24.34	-38.89	0.00	-2719.5	0.00	2719.56	3842.04	988.61	3547.63	3367.90	29.71	-3.839	0.000	0.815
80.00	-23.89	-38.57	0.00	-2641.7	0.00	2641.78	3815.67	977.22	3466.38	3305.90	31.34	-3.953	0.000	0.807
82.00	-23.44	-38.25	0.00	-2564.6	0.00	2564.65	3788.88	965.83	3386.07	3244.07	33.02	-4.068	0.000	0.798
84.00	-22.99	-37.93	0.00	-2488.1	0.00	2488.15	3761.67	954.44	3306.69	3182.44	34.75	-4.184	0.000	0.790
86.00	-22.56	-37.61	0.00	-2412.3	0.00	2412.30	3734.05	943.06	3228.26	3121.02	36.52	-4.300	0.000	0.781
88.00	-22.12	-37.29	0.00	-2337.0	0.00	2337.08	3706.01	931.67	3150.77	3059.82	38.35	-4.417	0.000	0.771
90.00	-21.73	-36.96	0.00	-2262.5	0.00	2262.50	3677.55	920.28	3074.23	2998.84	40.22	-4.534	0.000	0.762

Calculated Forces

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (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	

90.17	-21.66	-36.95	0.00	-2256.3	0.00	2256.34	3675.16	919.33	3067.89	2993.77	40.38	-4.544	0.000	0.761
92.00	-21.02	-36.64	0.00	-2188.6	0.00	2188.61	3648.68	908.90	2998.62	2938.12	42.14	-4.652	0.000	0.752
94.00	-20.33	-36.29	0.00	-2115.3	0.00	2115.34	3619.39	897.51	2923.96	2877.64	44.12	-4.770	0.000	0.742
96.00	-19.65	-35.95	0.00	-2042.7	0.00	2042.75	2873.56	764.37	2506.37	2303.28	46.14	-4.889	0.000	0.896
98.00	-19.28	-35.64	0.00	-1970.8	0.00	1970.85	2853.66	754.73	2443.58	2258.25	48.21	-5.008	0.000	0.882
100.00	-18.90	-35.33	0.00	-1899.5	0.00	1899.57	2833.34	745.10	2381.59	2213.29	50.34	-5.141	0.000	0.867
102.00	-18.54	-35.03	0.00	-1828.9	0.00	1828.90	2812.61	735.46	2320.39	2168.43	52.51	-5.274	0.000	0.852
104.00	-18.18	-34.72	0.00	-1758.8	0.00	1758.84	2791.46	725.83	2259.99	2123.68	54.75	-5.407	0.000	0.837
106.00	-17.82	-34.42	0.00	-1689.3	0.00	1689.39	2769.89	716.19	2200.39	2079.04	57.04	-5.540	0.000	0.821
108.00	-17.47	-34.12	0.00	-1620.5	0.00	1620.55	2747.90	706.55	2141.58	2034.53	59.39	-5.673	0.000	0.805
110.00	-17.12	-33.82	0.00	-1552.3	0.00	1552.31	2725.50	696.92	2083.57	1990.17	61.79	-5.806	0.000	0.789
112.00	-16.78	-33.53	0.00	-1484.6	0.00	1484.66	2702.68	687.28	2026.36	1945.97	64.25	-5.938	0.000	0.772
114.00	-16.44	-33.23	0.00	-1417.6	0.00	1417.61	2679.45	677.65	1969.94	1901.93	66.76	-6.070	0.000	0.754
116.00	-16.10	-32.94	0.00	-1351.1	0.00	1351.15	2655.79	668.01	1914.32	1858.08	69.32	-6.202	0.000	0.736
118.00	-15.78	-32.65	0.00	-1285.2	0.00	1285.27	2631.73	658.38	1859.50	1814.42	71.95	-6.332	0.000	0.717
120.00	-15.45	-32.36	0.00	-1219.9	0.00	1219.98	2607.24	648.74	1805.47	1770.96	74.62	-6.462	0.000	0.697
122.00	-15.13	-32.07	0.00	-1155.2	0.00	1155.26	2582.34	639.11	1752.24	1727.73	77.35	-6.590	0.000	0.677
124.00	-14.82	-31.79	0.00	-1091.1	0.00	1091.12	2557.02	629.47	1699.80	1684.74	80.13	-6.717	0.000	0.656
126.00	-14.51	-31.50	0.00	-1027.5	0.00	1027.55	2531.28	619.84	1648.16	1641.98	82.97	-6.843	0.000	0.634
128.00	-14.21	-31.22	0.00	-964.55	0.00	964.55	2505.13	610.20	1597.32	1599.49	85.86	-6.966	0.000	0.611
130.00	-13.91	-30.94	0.00	-902.10	0.00	902.10	2478.56	600.57	1547.28	1557.27	88.79	-7.087	0.000	0.588
132.00	-13.63	-30.66	0.00	-840.22	0.00	840.22	2451.58	590.93	1498.03	1515.33	91.78	-7.206	0.000	0.563
133.33	-13.45	-30.48	0.00	-799.33	0.00	799.33	2433.35	584.51	1465.64	1487.53	93.80	-7.284	0.000	0.546
134.00	-13.29	-30.39	0.00	-779.02	0.00	779.02	2424.17	581.30	1449.58	1473.69	94.82	-7.323	0.000	0.537
136.00	-12.86	-30.09	0.00	-718.25	0.00	718.25	2396.35	571.66	1401.92	1432.35	97.90	-7.436	0.000	0.510
138.00	-12.44	-29.79	0.00	-658.07	0.00	658.07	1545.45	417.14	1026.36	929.77	101.03	-7.544	0.000	0.721
140.00	-10.45	-25.77	0.00	-598.48	0.00	598.48	1531.69	410.13	992.17	905.88	104.21	-7.649	0.000	0.671
142.00	-10.23	-25.51	0.00	-546.94	0.00	546.94	1517.50	403.12	958.56	882.03	107.43	-7.779	0.000	0.631
144.00	-10.02	-25.25	0.00	-495.92	0.00	495.92	1502.90	396.11	925.52	858.22	110.71	-7.903	0.000	0.589
146.00	-9.81	-24.99	0.00	-445.42	0.00	445.42	1487.88	389.11	893.06	834.49	114.03	-8.021	0.000	0.544
148.00	-9.61	-24.74	0.00	-395.43	0.00	395.43	1472.45	382.10	861.19	810.82	117.41	-8.133	0.000	0.498
150.00	-7.77	-19.45	0.00	-345.96	0.00	345.96	1456.60	375.09	829.89	787.25	120.83	-8.236	0.000	0.447
152.00	-7.61	-19.20	0.00	-307.05	0.00	307.05	1440.33	368.08	799.17	763.78	124.29	-8.333	0.000	0.410
154.00	-7.45	-18.95	0.00	-268.65	0.00	268.65	1423.65	361.08	769.03	740.42	127.78	-8.423	0.000	0.371
156.00	-7.30	-18.71	0.00	-230.74	0.00	230.74	1406.55	354.07	739.47	717.20	131.32	-8.506	0.000	0.330
158.00	-5.86	-16.54	0.00	-193.32	0.00	193.32	1389.03	347.06	710.49	694.11	134.89	-8.580	0.000	0.285
160.00	-5.45	-13.74	0.00	-160.24	0.00	160.24	1371.10	340.05	682.09	671.17	138.48	-8.646	0.000	0.244
162.00	-5.34	-13.51	0.00	-132.76	0.00	132.76	1352.75	333.05	654.27	648.41	142.10	-8.705	0.000	0.210
164.00	-5.23	-13.28	0.00	-105.75	0.00	105.75	1333.98	326.04	627.03	625.81	145.75	-8.755	0.000	0.175
166.00	-2.69	-7.11	0.00	-79.19	0.00	79.19	1314.79	319.03	600.37	603.42	149.41	-8.797	0.000	0.134
168.00	-2.60	-6.89	0.00	-64.97	0.00	64.97	1295.19	312.03	574.28	581.22	153.09	-8.831	0.000	0.114
170.00	-2.52	-6.67	0.00	-51.19	0.00	51.19	1275.17	305.02	548.78	559.24	156.78	-8.861	0.000	0.094
172.00	-2.44	-6.45	0.00	-37.86	0.00	37.86	1251.65	298.01	523.85	536.17	160.48	-8.886	0.000	0.073
174.00	-2.36	-6.24	0.00	-24.95	0.00	24.95	1222.21	291.00	499.51	511.11	164.20	-8.904	0.000	0.051
176.00	-2.28	-6.04	0.00	-12.47	0.00	12.47	1192.78	284.00	475.74	486.64	167.91	-8.916	0.000	0.028
178.00	-0.07	-0.20	0.00	-0.40	0.00	0.40	1163.35	276.99	452.55	462.78	171.64	-8.921	0.000	0.001
180.00	0.00	-0.18	0.00	0.00	0.00	0.00	1133.92	269.98	429.95	439.52	175.36	-8.921	0.000	0.000

Wind Loading - Shaft

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (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	

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

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 28

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	5.124	5.64	0.00	1.200	0.000	0.00	0.000	0.00	0.0	0.0	0.0
2.00		1.00	0.85	5.124	5.64	0.00	1.200	0.756	2.00	10.907	13.09	73.8	121.9	827.3
4.00		1.00	0.85	5.124	5.64	0.00	1.200	0.810	2.00	10.839	13.01	73.3	129.7	829.4
6.00		1.00	0.85	5.124	5.64	0.00	1.200	0.843	2.00	10.765	12.92	72.8	134.1	828.1
8.00		1.00	0.85	5.124	5.64	0.00	1.200	0.868	2.00	10.688	12.83	72.3	136.9	825.2
10.00		1.00	0.85	5.124	5.64	0.00	1.200	0.887	2.00	10.609	12.73	71.8	138.9	821.5
12.00		1.00	0.85	5.124	5.64	0.00	1.200	0.904	2.00	10.528	12.63	71.2	140.4	817.2
14.00		1.00	0.85	5.124	5.64	0.00	1.200	0.918	2.00	10.448	12.54	70.7	141.4	812.6
16.00		1.00	0.86	5.187	5.71	0.00	1.200	0.930	2.00	10.366	12.44	71.0	142.1	807.6
18.00		1.00	0.88	5.318	5.85	0.00	1.200	0.941	2.00	10.284	12.34	72.2	142.6	802.4
20.00		1.00	0.90	5.437	5.98	0.00	1.200	0.951	2.00	10.202	12.24	73.2	142.9	797.0
22.00		1.00	0.92	5.547	6.10	0.00	1.200	0.960	2.00	10.119	12.14	74.1	143.1	791.4
24.00		1.00	0.94	5.650	6.21	0.00	1.200	0.969	2.00	10.037	12.04	74.8	143.1	785.8
26.00		1.00	0.95	5.746	6.32	0.00	1.200	0.976	2.00	9.954	11.94	75.5	143.0	780.0
28.00		1.00	0.97	5.836	6.42	0.00	1.200	0.984	2.00	9.870	11.84	76.0	142.8	774.1
30.00		1.00	0.98	5.921	6.51	0.00	1.200	0.991	2.00	9.787	11.74	76.5	142.6	768.1
32.00		1.00	1.00	6.002	6.60	0.00	1.200	0.997	2.00	9.704	11.64	76.9	142.2	762.0
34.00		1.00	1.01	6.079	6.69	0.00	1.200	1.003	2.00	9.620	11.54	77.2	141.8	755.9
36.00		1.00	1.02	6.153	6.77	0.00	1.200	1.009	2.00	9.536	11.44	77.5	141.4	749.8
38.00		1.00	1.03	6.224	6.85	0.00	1.200	1.014	2.00	9.453	11.34	77.7	140.8	743.5
40.00		1.00	1.04	6.291	6.92	0.00	1.200	1.019	2.00	9.369	11.24	77.8	140.3	737.2
42.00		1.00	1.05	6.356	6.99	0.00	1.200	1.024	2.00	9.285	11.14	77.9	139.6	730.9
43.92	Bot - Section 2	1.00	1.06	6.416	7.06	0.00	1.200	1.029	1.92	8.819	10.58	74.7	133.2	694.5
44.00		1.00	1.06	6.419	7.06	0.00	1.200	1.029	0.08	0.388	0.47	3.3	5.9	53.1
46.00		1.00	1.07	6.479	7.13	0.00	1.200	1.034	2.00	9.257	11.11	79.2	140.5	1267.8
48.00		1.00	1.08	6.537	7.19	0.00	1.200	1.038	2.00	9.173	11.01	79.2	139.7	1256.1
50.00		1.00	1.09	6.594	7.25	0.00	1.200	1.042	2.00	9.089	10.91	79.1	139.0	1244.3
51.00	Top - Section 1	1.00	1.10	6.621	7.28	0.00	1.200	1.044	1.00	4.513	5.42	39.4	69.3	617.8
52.00		1.00	1.10	6.648	7.31	0.00	1.200	1.047	1.00	4.492	5.39	39.4	69.1	334.2
54.00		1.00	1.11	6.701	7.37	0.00	1.200	1.050	2.00	8.920	10.70	78.9	137.4	663.6
56.00		1.00	1.12	6.753	7.43	0.00	1.200	1.054	2.00	8.836	10.60	78.8	136.5	657.5
58.00		1.00	1.13	6.803	7.48	0.00	1.200	1.058	2.00	8.752	10.50	78.6	135.7	651.3
60.00		1.00	1.14	6.852	7.54	0.00	1.200	1.062	2.00	8.667	10.40	78.4	134.8	645.1
62.00		1.00	1.14	6.899	7.59	0.00	1.200	1.065	2.00	8.583	10.30	78.2	133.8	638.9
64.00		1.00	1.15	6.945	7.64	0.00	1.200	1.068	2.00	8.498	10.20	77.9	132.9	632.7
66.00		1.00	1.16	6.991	7.69	0.00	1.200	1.072	2.00	8.414	10.10	77.6	131.9	626.4
68.00		1.00	1.17	7.035	7.74	0.00	1.200	1.075	2.00	8.329	10.00	77.3	131.0	620.1
70.00		1.00	1.17	7.078	7.79	0.00	1.200	1.078	2.00	8.245	9.89	77.0	130.0	613.8
72.00		1.00	1.18	7.120	7.83	0.00	1.200	1.081	2.00	8.160	9.79	76.7	128.9	607.5
74.00		1.00	1.19	7.161	7.88	0.00	1.200	1.084	2.00	8.076	9.69	76.3	127.9	601.2
76.00		1.00	1.19	7.201	7.92	0.00	1.200	1.087	2.00	7.991	9.59	76.0	126.9	594.9
78.00		1.00	1.20	7.241	7.96	0.00	1.200	1.090	2.00	7.906	9.49	75.6	125.8	588.5
80.00		1.00	1.21	7.279	8.01	0.00	1.200	1.093	2.00	7.822	9.39	75.2	124.7	582.1
82.00		1.00	1.21	7.317	8.05	0.00	1.200	1.095	2.00	7.737	9.28	74.7	123.6	575.7
84.00		1.00	1.22	7.355	8.09	0.00	1.200	1.098	2.00	7.652	9.18	74.3	122.5	569.3
86.00		1.00	1.23	7.391	8.13	0.00	1.200	1.101	2.00	7.568	9.08	73.8	121.4	562.9
88.00		1.00	1.23	7.427	8.17	0.00	1.200	1.103	2.00	7.483	8.98	73.4	120.3	556.5

Wind Loading - Shaft

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 35	

90.00	1.00	1.24	7.462	8.21	0.00	1.200	1.106	2.00	7.398	8.88	72.9	119.1	550.0
90.17 Bot - Section 3	1.00	1.24	7.465	8.21	0.00	1.200	1.106	0.17	0.613	0.74	6.0	9.9	45.6
92.00	1.00	1.24	7.497	8.25	0.00	1.200	1.108	1.83	6.809	8.17	67.4	110.0	836.0
94.00	1.00	1.25	7.531	8.28	0.00	1.200	1.110	2.00	7.347	8.82	73.0	118.8	901.5
96.00 Top - Section 2	1.00	1.25	7.564	8.32	0.00	1.200	1.113	2.00	7.262	8.71	72.5	117.6	890.5
98.00	1.00	1.26	7.597	8.36	0.00	1.200	1.115	2.00	7.178	8.61	72.0	116.4	469.9
100.00	1.00	1.27	7.630	8.39	0.00	1.200	1.117	2.00	7.093	8.51	71.4	115.2	464.2
102.00	1.00	1.27	7.661	8.43	0.00	1.200	1.119	2.00	7.008	8.41	70.9	114.0	458.5
104.00	1.00	1.28	7.693	8.46	0.00	1.200	1.122	2.00	6.923	8.31	70.3	112.8	452.8
106.00	1.00	1.28	7.724	8.50	0.00	1.200	1.124	2.00	6.838	8.21	69.7	111.6	447.1
108.00	1.00	1.29	7.754	8.53	0.00	1.200	1.126	2.00	6.753	8.10	69.1	110.4	441.4
110.00	1.00	1.29	7.784	8.56	0.00	1.200	1.128	2.00	6.668	8.00	68.5	109.1	435.7
112.00	1.00	1.30	7.814	8.60	0.00	1.200	1.130	2.00	6.583	7.90	67.9	107.9	429.9
114.00	1.00	1.30	7.843	8.63	0.00	1.200	1.132	2.00	6.499	7.80	67.3	106.6	424.2
116.00	1.00	1.31	7.872	8.66	0.00	1.200	1.134	2.00	6.414	7.70	66.6	105.3	418.4
118.00	1.00	1.31	7.900	8.69	0.00	1.200	1.136	2.00	6.329	7.59	66.0	104.1	412.7
120.00	1.00	1.32	7.928	8.72	0.00	1.200	1.138	2.00	6.244	7.49	65.3	102.8	406.9
122.00	1.00	1.32	7.956	8.75	0.00	1.200	1.140	2.00	6.159	7.39	64.7	101.5	401.1
124.00	1.00	1.32	7.983	8.78	0.00	1.200	1.142	2.00	6.074	7.29	64.0	100.2	395.3
126.00	1.00	1.33	8.010	8.81	0.00	1.200	1.143	2.00	5.989	7.19	63.3	98.9	389.6
128.00	1.00	1.33	8.037	8.84	0.00	1.200	1.145	2.00	5.904	7.08	62.6	97.6	383.8
130.00	1.00	1.34	8.063	8.87	0.00	1.200	1.147	2.00	5.819	6.98	61.9	96.3	378.0
132.00	1.00	1.34	8.089	8.90	0.00	1.200	1.149	2.00	5.734	6.88	61.2	94.9	372.2
133.33 Bot - Section 4	1.00	1.34	8.106	8.92	0.00	1.200	1.150	1.33	3.775	4.53	40.4	62.7	245.0
134.00	1.00	1.35	8.115	8.93	0.00	1.200	1.150	0.67	1.902	2.28	20.4	31.7	189.2
136.00	1.00	1.35	8.140	8.95	0.00	1.200	1.152	2.00	5.650	6.78	60.7	93.8	561.0
138.00 Top - Section 3	1.00	1.35	8.165	8.98	0.00	1.200	1.154	2.00	5.565	6.68	60.0	92.4	551.9
140.00 Appurtenance(s)	1.00	1.36	8.190	9.01	0.00	1.200	1.155	2.00	5.480	6.58	59.2	91.1	283.5
142.00	1.00	1.36	8.214	9.04	0.00	1.200	1.157	2.00	5.395	6.47	58.5	89.7	278.9
144.00	1.00	1.37	8.238	9.06	0.00	1.200	1.159	2.00	5.310	6.37	57.7	88.4	274.3
146.00	1.00	1.37	8.262	9.09	0.00	1.200	1.160	2.00	5.225	6.27	57.0	87.0	269.7
148.00	1.00	1.37	8.286	9.11	0.00	1.200	1.162	2.00	5.140	6.17	56.2	85.6	265.0
150.00 Appurtenance(s)	1.00	1.38	8.309	9.14	0.00	1.200	1.163	2.00	5.055	6.07	55.4	84.2	260.4
152.00	1.00	1.38	8.333	9.17	0.00	1.200	1.165	2.00	4.970	5.96	54.7	82.9	255.8
154.00	1.00	1.39	8.356	9.19	0.00	1.200	1.167	2.00	4.885	5.86	53.9	81.5	251.1
156.00	1.00	1.39	8.378	9.22	0.00	1.200	1.168	2.00	4.800	5.76	53.1	80.1	246.5
158.00 Appurtenance(s)	1.00	1.39	8.401	9.24	0.00	1.200	1.170	2.00	4.715	5.66	52.3	78.7	241.8
160.00 Appurtenance(s)	1.00	1.40	8.423	9.27	0.00	1.200	1.171	2.00	4.629	5.56	51.5	77.3	237.1
162.00	1.00	1.40	8.445	9.29	0.00	1.200	1.172	2.00	4.544	5.45	50.7	75.9	232.5
164.00	1.00	1.40	8.467	9.31	0.00	1.200	1.174	2.00	4.459	5.35	49.8	74.5	227.8
166.00 Appurtenance(s)	1.00	1.41	8.489	9.34	0.00	1.200	1.175	2.00	4.374	5.25	49.0	73.0	223.1
168.00	1.00	1.41	8.510	9.36	0.00	1.200	1.177	2.00	4.289	5.15	48.2	71.6	218.4
170.00	1.00	1.42	8.531	9.38	0.00	1.200	1.178	2.00	4.204	5.04	47.3	70.2	213.8
172.00	1.00	1.42	8.552	9.41	0.00	1.200	1.180	2.00	4.119	4.94	46.5	68.8	209.1
174.00	1.00	1.42	8.573	9.43	0.00	1.200	1.181	2.00	4.034	4.84	45.6	67.3	204.4
176.00	1.00	1.43	8.594	9.45	0.00	1.200	1.182	2.00	3.949	4.74	44.8	65.9	199.7
178.00 Appurtenance(s)	1.00	1.43	8.614	9.48	0.00	1.200	1.184	2.00	3.863	4.64	43.9	64.4	195.0
180.00	1.00	1.43	8.635	9.50	0.00	1.200	1.185	2.00	3.778	4.53	43.1	63.0	190.3
							Totals:	**180.00**			**6,091.7**		**50,333.6**

Discrete Appurtenance Forces

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 36	

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 28

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	178.00	JMA MX06FRO660-03	6	8.614	9.476	0.65	0.75	42.03	1469.15	0.000	0.000	398.27	0.00	0.00
2	178.00	Raycap	1	8.614	9.476	0.67	0.75	2.03	70.34	0.000	0.000	19.27	0.00	0.00
3	178.00	Samsung B5/B13 RRH	3	8.614	9.476	0.38	0.75	2.52	319.30	0.000	0.000	23.84	0.00	0.00
4	178.00	Platform w/ Handrails w/	1	8.614	9.476	1.00	1.00	54.20	3808.70	0.000	0.000	513.61	0.00	0.00
5	178.00	Samsung VZS01	3	8.614	9.476	0.52	0.75	7.59	524.05	0.000	0.000	71.92	0.00	0.00
6	178.00	Samsung B2/B66A RRH	3	8.614	9.476	0.38	0.75	2.78	596.43	0.000	0.000	26.39	0.00	0.00
7	166.00	ALU 1900 Mhz	3	8.489	9.338	0.38	0.75	3.22	285.35	0.000	0.000	30.11	0.00	0.00
8	166.00	Platform w/ Hand Rails	1	8.489	9.338	1.00	1.00	54.10	3210.39	0.000	0.000	505.20	0.00	0.00
9	166.00	RFS APXVTM14-C-I20	3	8.489	9.338	0.58	0.75	12.26	505.30	0.000	0.000	114.44	0.00	0.00
10	166.00	Commscope	3	8.489	9.338	0.55	0.75	22.06	658.17	0.000	0.000	206.01	0.00	0.00
11	166.00	ALU TD-RRH8x20-25	3	8.489	9.338	0.38	0.75	5.16	460.26	0.000	0.000	48.14	0.00	0.00
12	166.00	ALU 800 Mhz	6	8.489	9.338	0.38	0.75	6.48	553.85	0.000	0.000	60.52	0.00	0.00
13	166.00	Sitepro	1	8.489	9.338	1.00	1.00	11.42	391.26	0.000	0.000	106.68	0.00	0.00
14	166.00	Sitepro	1	8.489	9.338	1.00	1.00	11.61	1219.51	0.000	0.000	108.38	0.00	0.00
15	160.00	RR90-17-00VDPL2/-R	3	8.423	9.265	0.54	0.80	8.16	228.28	0.000	0.000	75.58	0.00	0.00
16	160.00	4449 B71+B12	3	8.423	9.265	0.40	0.80	2.40	378.05	0.000	0.000	22.21	0.00	0.00
17	160.00	KRY 112 144/2	3	8.423	9.265	0.40	0.80	0.80	75.91	0.000	0.000	7.44	0.00	0.00
18	160.00	KRY 112 489/2	3	8.423	9.265	0.40	0.80	1.27	75.91	0.000	0.000	11.79	0.00	0.00
19	160.00	APXVAARR24_43-U-NA2	3	8.423	9.265	0.56	0.80	36.12	1267.16	0.000	0.000	334.66	0.00	0.00
20	158.00	V-Brace	1	8.401	9.241	0.75	0.75	8.04	333.72	0.000	0.000	74.30	0.00	0.00
21	158.00	T-Arm Kit	1	8.401	9.241	0.75	0.75	20.48	847.64	0.000	0.000	189.25	0.00	0.00
22	158.00	T-Arms	3	8.401	9.241	0.56	0.75	21.39	1541.21	0.000	0.000	197.71	0.00	0.00
23	150.00	DMP65R-BU6DA	2	8.309	9.140	0.54	0.75	14.78	448.69	0.000	0.000	135.10	0.00	0.00
24	150.00	Powerwave 7770	3	8.309	9.140	0.55	0.75	10.18	376.13	0.000	0.000	93.01	0.00	0.00
25	150.00	DMP65R-BU4DA	1	8.309	9.140	0.54	0.75	4.81	224.34	0.000	0.000	44.01	0.00	0.00
26	150.00	Powerwave LGP21401	6	8.309	9.140	0.38	0.75	2.64	158.93	0.000	0.000	24.15	0.00	0.00
27	150.00	B2 B66A 8843	3	8.309	9.140	0.38	0.75	2.23	310.07	0.000	0.000	20.40	0.00	0.00
28	150.00	Raycap DC6-48-60-18-8F	1	8.309	9.140	0.67	1.00	1.60	61.68	0.000	0.000	14.60	0.00	0.00
29	150.00	Platform w/ Hand Rail	1	8.309	9.140	1.00	1.00	55.36	2719.90	0.000	0.000	506.02	0.00	0.00
30	150.00	Cci HPA-65R-BUU-H6	2	8.309	9.140	0.64	0.75	13.45	435.37	0.000	0.000	122.98	0.00	0.00
31	150.00	SBNHH-1D65A	1	8.309	9.140	0.75	0.75	4.94	138.77	0.000	0.000	45.14	0.00	0.00
32	150.00	4449 B5/B12	3	8.309	9.140	0.38	0.75	2.20	321.56	0.000	0.000	20.11	0.00	0.00
33	140.00	Raycap	1	8.190	9.009	0.59	0.75	1.41	48.83	0.000	0.000	12.74	0.00	0.00
34	140.00	Fujitsu TA08025-B604	3	8.190	9.009	0.38	0.75	2.62	294.30	0.000	0.000	23.63	0.00	0.00
35	140.00	Fujitsu TA08025-B605	3	8.190	9.009	0.38	0.75	2.62	336.09	0.000	0.000	23.63	0.00	0.00
36	140.00	Sitepro1 SNP8HR-3XX	1	8.190	9.009	1.00	1.00	68.86	3241.10	0.000	0.000	620.36	0.00	0.00
37	140.00	JMA Wireless	3	8.190	9.009	0.55	0.75	22.41	608.34	0.000	0.000	201.89	0.00	0.00
							Totals:		**28,544.05**			**5,053.49**		

Total Applied Force Summary

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 37	

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 28

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
2.00		73.77	834.53	0.00	0.00
4.00		73.32	873.60	0.00	0.00
6.00		72.81	909.04	0.00	0.00
8.00		72.29	906.42	0.00	0.00
10.00		71.75	902.91	0.00	0.00
12.00		71.21	898.80	0.00	0.00
14.00		70.67	894.27	0.00	0.00
16.00		70.98	889.43	0.00	0.00
18.00		72.19	884.34	0.00	0.00
20.00		73.22	879.06	0.00	0.00
22.00		74.10	873.60	0.00	0.00
24.00		74.85	868.01	0.00	0.00
26.00		75.49	862.31	0.00	0.00
28.00		76.04	856.50	0.00	0.00
30.00		76.50	850.60	0.00	0.00
32.00		76.88	844.62	0.00	0.00
34.00		77.20	838.58	0.00	0.00
36.00		77.46	832.47	0.00	0.00
38.00		77.65	826.30	0.00	0.00
40.00		77.80	820.08	0.00	0.00
42.00		77.90	813.81	0.00	0.00
43.92		74.69	773.99	0.00	0.00
44.00		3.28	56.55	0.00	0.00
46.00		79.17	1350.79	0.00	0.00
48.00		79.15	1339.11	0.00	0.00
50.00		79.11	1327.40	0.00	0.00
51.00		39.44	659.39	0.00	0.00
52.00		39.42	375.79	0.00	0.00
54.00		78.91	746.83	0.00	0.00
56.00		78.76	740.73	0.00	0.00
58.00		78.59	734.61	0.00	0.00
60.00		78.39	728.46	0.00	0.00
62.00		78.16	722.28	0.00	0.00
64.00		77.91	716.08	0.00	0.00
66.00		77.64	709.86	0.00	0.00
68.00		77.34	703.63	0.00	0.00
70.00		77.03	697.37	0.00	0.00
72.00		76.69	691.09	0.00	0.00
74.00		76.34	684.79	0.00	0.00
76.00		75.96	678.48	0.00	0.00
78.00		75.57	672.15	0.00	0.00
80.00		75.16	665.81	0.00	0.00
82.00		74.73	659.45	0.00	0.00
84.00		74.29	653.08	0.00	0.00
86.00		73.83	646.69	0.00	0.00
88.00		73.36	640.29	0.00	0.00

Total Applied Force Summary

Structure:	CT46130-A-SBA		**Code:**	EIA/TIA-222-H	5/21/2021
Site Name:	Deep River-winthrop Rd		**Exposure:**	C	
Height:	180.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 38

90.00		72.87	633.88	0.00	0.00
90.17		6.04	52.58	0.00	0.00
92.00		67.38	912.93	0.00	0.00
94.00		73.04	985.41	0.00	0.00
96.00		72.51	974.48	0.00	0.00
98.00		71.98	553.85	0.00	0.00
100.00		71.43	548.20	0.00	0.00
102.00		70.87	542.54	0.00	0.00
104.00		70.30	536.87	0.00	0.00
106.00		69.72	531.19	0.00	0.00
108.00		69.12	525.49	0.00	0.00
110.00		68.52	519.80	0.00	0.00
112.00		67.90	514.09	0.00	0.00
114.00		67.28	508.37	0.00	0.00
116.00		66.64	502.64	0.00	0.00
118.00		66.00	496.91	0.00	0.00
120.00		65.34	491.17	0.00	0.00
122.00		64.68	485.42	0.00	0.00
124.00		64.00	479.66	0.00	0.00
126.00		63.32	473.89	0.00	0.00
128.00		62.63	468.12	0.00	0.00
130.00		61.93	462.34	0.00	0.00
132.00		61.22	456.56	0.00	0.00
133.33		40.40	301.30	0.00	0.00
134.00		20.37	217.31	0.00	0.00
136.00		60.71	645.46	0.00	0.00
138.00		59.98	636.39	0.00	0.00
140.00	(11) attachments	941.48	4896.70	0.00	0.00
142.00		58.50	361.04	0.00	0.00
144.00		57.74	356.44	0.00	0.00
146.00		56.99	351.83	0.00	0.00
148.00		56.22	347.22	0.00	0.00
150.00	(23) attachments	1080.96	5538.03	0.00	0.00
152.00		54.66	314.05	0.00	0.00
154.00		53.88	309.42	0.00	0.00
156.00		53.08	304.79	0.00	0.00
158.00	(5) attachments	513.54	3022.72	0.00	0.00
160.00	(15) attachments	503.16	2320.81	0.00	0.00
162.00		50.66	258.41	0.00	0.00
164.00		49.84	253.75	0.00	0.00
166.00	(21) attachments	1228.50	7533.21	0.00	0.00
168.00		48.18	235.27	0.00	0.00
170.00		47.34	230.60	0.00	0.00
172.00		46.50	225.93	0.00	0.00
174.00		45.65	221.25	0.00	0.00
176.00		44.79	216.57	0.00	0.00
178.00	(17) attachments	1097.23	6999.85	0.00	0.00
180.00		43.06	202.20	0.00	0.00
	Totals:	**11,145.15**	**85,490.93**	**0.00**	**0.00**

Linear Appurtenance Segment Forces (Factored)

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 39	

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

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 28

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)
2.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	5.124	0.00	2.51
2.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	5.124	0.00	4.69
4.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	5.124	0.00	2.75
4.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	5.124	0.00	4.95
6.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	5.124	0.00	2.91
6.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	5.124	0.00	5.12
8.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	5.124	0.00	3.03
8.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	5.124	0.00	5.25
10.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	5.124	0.00	3.12
10.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	5.124	0.00	5.35
12.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	5.124	0.00	3.20
12.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	5.124	0.00	5.44
14.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	5.124	0.00	3.27
14.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	5.124	0.00	5.51
16.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	5.187	0.00	3.34
16.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	5.187	0.00	5.58
18.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	5.318	0.00	3.39
18.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	5.318	0.00	5.64
20.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	5.437	0.00	3.44
20.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	5.437	0.00	5.70
22.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	5.547	0.00	3.49
22.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	5.547	0.00	5.75
24.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	5.650	0.00	3.54
24.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	5.650	0.00	5.80
26.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	5.746	0.00	3.58
26.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	5.746	0.00	5.84
28.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	5.836	0.00	3.62
28.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	5.836	0.00	5.88
30.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	5.921	0.00	3.65
30.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	5.921	0.00	5.92
32.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.002	0.00	3.69
32.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.002	0.00	5.96
34.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.079	0.00	3.72
34.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.079	0.00	5.99
36.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.153	0.00	3.75
36.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.153	0.00	6.03
38.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.224	0.00	3.78
38.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.224	0.00	6.06
40.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.291	0.00	3.81
40.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.291	0.00	6.09
42.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.356	0.00	3.84
42.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.356	0.00	6.12
43.92	Safety Cable	Yes	1.92	0.000	0.00	0.00	0.00	0.000	0.000	6.416	0.00	3.71
43.92	Step bolts (ladder)	Yes	1.92	0.000	0.00	0.00	0.00	0.000	0.000	6.416	0.00	5.89
44.00	Safety Cable	Yes	0.08	0.000	0.00	0.00	0.00	0.000	0.000	6.419	0.00	0.16
44.00	Step bolts (ladder)	Yes	0.08	0.000	0.00	0.00	0.00	0.000	0.000	6.419	0.00	0.26
46.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.479	0.00	3.89

Linear Appurtenance Segment Forces (Factored)

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 40	

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

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 28

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)
46.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.479	0.00	6.18
48.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.537	0.00	3.92
48.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.537	0.00	6.20
50.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.594	0.00	3.94
50.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.594	0.00	6.23
51.00	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	6.621	0.00	1.98
51.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	6.621	0.00	3.12
52.00	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	6.648	0.00	1.98
52.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	6.648	0.00	3.13
54.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.701	0.00	3.99
54.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.701	0.00	6.28
56.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.753	0.00	4.01
56.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.753	0.00	6.30
58.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.803	0.00	4.03
58.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.803	0.00	6.33
60.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.852	0.00	4.05
60.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.852	0.00	6.35
62.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.899	0.00	4.07
62.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.899	0.00	6.37
64.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.945	0.00	4.09
64.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.945	0.00	6.39
66.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.991	0.00	4.11
66.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.991	0.00	6.41
68.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.035	0.00	4.13
68.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.035	0.00	6.43
70.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.078	0.00	4.15
70.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.078	0.00	6.45
72.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.120	0.00	4.17
72.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.120	0.00	6.47
74.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.161	0.00	4.18
74.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.161	0.00	6.49
76.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.201	0.00	4.20
76.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.201	0.00	6.51
78.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.241	0.00	4.22
78.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.241	0.00	6.52
80.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.279	0.00	4.23
80.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.279	0.00	6.54
82.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.317	0.00	4.25
82.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.317	0.00	6.56
84.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.355	0.00	4.26
84.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.355	0.00	6.57
86.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.391	0.00	4.28
86.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.391	0.00	6.59
88.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.427	0.00	4.30
88.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.427	0.00	6.61
90.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.462	0.00	4.31
90.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.462	0.00	6.62

Linear Appurtenance Segment Forces (Factored)

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 41	

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

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 28

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)
90.17	Safety Cable	Yes	0.17	0.000	0.00	0.00	0.00	0.000	0.000	7.465	0.00	0.36
90.17	Step bolts (ladder)	Yes	0.17	0.000	0.00	0.00	0.00	0.000	0.000	7.465	0.00	0.55
92.00	Safety Cable	Yes	1.83	0.000	0.00	0.00	0.00	0.000	0.000	7.497	0.00	3.96
92.00	Step bolts (ladder)	Yes	1.83	0.000	0.00	0.00	0.00	0.000	0.000	7.497	0.00	6.08
94.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.531	0.00	4.34
94.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.531	0.00	6.65
96.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.564	0.00	4.35
96.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.564	0.00	6.67
98.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.597	0.00	4.37
98.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.597	0.00	6.68
100.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.630	0.00	4.38
100.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.630	0.00	6.70
102.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.661	0.00	4.39
102.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.661	0.00	6.71
104.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.693	0.00	4.41
104.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.693	0.00	6.73
106.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.724	0.00	4.42
106.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.724	0.00	6.74
108.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.754	0.00	4.43
108.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.754	0.00	6.75
110.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.784	0.00	4.45
110.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.784	0.00	6.77
112.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.814	0.00	4.46
112.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.814	0.00	6.78
114.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.843	0.00	4.47
114.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.843	0.00	6.79
116.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.872	0.00	4.48
116.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.872	0.00	6.81
118.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.900	0.00	4.49
118.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.900	0.00	6.82
120.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.928	0.00	4.51
120.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.928	0.00	6.83
122.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.956	0.00	4.52
122.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.956	0.00	6.84
124.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.983	0.00	4.53
124.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.983	0.00	6.86
126.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.010	0.00	4.54
126.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.010	0.00	6.87
128.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.037	0.00	4.55
128.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.037	0.00	6.88
130.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.063	0.00	4.56
130.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.063	0.00	6.89
132.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.089	0.00	4.57
132.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.089	0.00	6.90
133.33	Safety Cable	Yes	1.33	0.000	0.00	0.00	0.00	0.000	0.000	8.106	0.00	3.05
133.33	Step bolts (ladder)	Yes	1.33	0.000	0.00	0.00	0.00	0.000	0.000	8.106	0.00	4.61
134.00	Safety Cable	Yes	0.67	0.000	0.00	0.00	0.00	0.000	0.000	8.115	0.00	1.53

Linear Appurtenance Segment Forces (Factored)

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 42	

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

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 28

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)
134.00	Step bolts (ladder)	Yes	0.67	0.000	0.00	0.00	0.00	0.000	0.000	8.115	0.00	2.30
136.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.140	0.00	4.59
136.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.140	0.00	6.92
138.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.165	0.00	4.60
138.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.165	0.00	6.94
140.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.190	0.00	4.62
140.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.190	0.00	6.95
142.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.214	0.00	4.63
142.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.214	0.00	6.96
144.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.238	0.00	4.64
144.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.238	0.00	6.97
146.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.262	0.00	4.65
146.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.262	0.00	6.98
148.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.286	0.00	4.66
148.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.286	0.00	6.99
150.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.309	0.00	4.67
150.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.309	0.00	7.00
152.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.333	0.00	4.67
152.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.333	0.00	7.01
154.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.356	0.00	4.68
154.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.356	0.00	7.02
156.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.378	0.00	4.69
156.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.378	0.00	7.03
158.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.401	0.00	4.70
158.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.401	0.00	7.04
160.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.423	0.00	4.71
160.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.423	0.00	7.05
162.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.445	0.00	4.72
162.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.445	0.00	7.06
164.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.467	0.00	4.73
164.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.467	0.00	7.07
166.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.489	0.00	4.74
166.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.489	0.00	7.08
168.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.510	0.00	4.75
168.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.510	0.00	7.09
170.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.531	0.00	4.76
170.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.531	0.00	7.10
172.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.552	0.00	4.77
172.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.552	0.00	7.11
174.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.573	0.00	4.77
174.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.573	0.00	7.12
176.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.594	0.00	4.78
176.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.594	0.00	7.13
178.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.614	0.00	4.79
178.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.614	0.00	7.13
180.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.635	0.00	4.80
180.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.635	0.00	7.14

Linear Appurtenance Segment Forces (Factored)

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 43	

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 28

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)
										Totals:	**0.0**	**959.8**

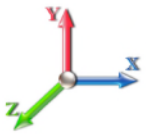
Calculated Forces

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 44	

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

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 28

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-85.49	-11.16	0.00	-1438.4	0.00	1438.44	5123.29	1522.04	7808.40	6435.29	0.00	0.000	0.000	0.240
2.00	-84.65	-11.11	0.00	-1416.1	0.00	1416.12	5107.67	1509.78	7683.09	6363.61	0.00	-0.019	0.000	0.239
4.00	-83.77	-11.07	0.00	-1393.9	0.00	1393.90	5091.62	1497.52	7558.79	6291.73	0.02	-0.039	0.000	0.238
6.00	-82.86	-11.02	0.00	-1371.7	0.00	1371.76	5075.16	1485.26	7435.50	6219.67	0.04	-0.059	0.000	0.237
8.00	-81.95	-10.98	0.00	-1349.7	0.00	1349.71	5058.29	1472.99	7313.22	6147.44	0.07	-0.078	0.000	0.236
10.00	-81.04	-10.93	0.00	-1327.7	0.00	1327.75	5041.00	1460.73	7191.96	6075.05	0.10	-0.098	0.000	0.235
12.00	-80.14	-10.89	0.00	-1305.8	0.00	1305.89	5023.29	1448.47	7071.72	6002.51	0.15	-0.119	0.000	0.234
14.00	-79.24	-10.85	0.00	-1284.1	0.00	1284.11	5005.16	1436.20	6952.48	5929.84	0.20	-0.139	0.000	0.232
16.00	-78.35	-10.80	0.00	-1262.4	0.00	1262.42	4986.62	1423.94	6834.27	5857.05	0.27	-0.160	0.000	0.231
18.00	-77.46	-10.75	0.00	-1240.8	0.00	1240.82	4967.66	1411.68	6717.06	5784.16	0.34	-0.180	0.000	0.230
20.00	-76.58	-10.71	0.00	-1219.3	0.00	1219.31	4948.29	1399.42	6600.87	5711.17	0.42	-0.201	0.000	0.229
22.00	-75.70	-10.66	0.00	-1197.9	0.00	1197.90	4928.49	1387.15	6485.69	5638.10	0.51	-0.222	0.000	0.228
24.00	-74.83	-10.61	0.00	-1176.5	0.00	1176.59	4908.28	1374.89	6371.53	5564.95	0.60	-0.244	0.000	0.227
26.00	-73.96	-10.55	0.00	-1155.3	0.00	1155.38	4887.66	1362.63	6258.37	5491.76	0.71	-0.265	0.000	0.226
28.00	-73.10	-10.50	0.00	-1134.2	0.00	1134.27	4866.62	1350.36	6146.24	5418.52	0.83	-0.287	0.000	0.224
30.00	-72.25	-10.45	0.00	-1113.2	0.00	1113.27	4845.16	1338.10	6035.11	5345.24	0.95	-0.309	0.000	0.223
32.00	-71.40	-10.39	0.00	-1092.3	0.00	1092.37	4823.28	1325.84	5925.00	5271.95	1.09	-0.331	0.000	0.222
34.00	-70.56	-10.34	0.00	-1071.5	0.00	1071.58	4800.99	1313.58	5815.91	5198.66	1.23	-0.353	0.000	0.221
36.00	-69.72	-10.28	0.00	-1050.9	0.00	1050.90	4778.28	1301.31	5707.83	5125.37	1.38	-0.375	0.000	0.220
38.00	-68.89	-10.23	0.00	-1030.3	0.00	1030.34	4755.15	1289.05	5600.76	5052.10	1.54	-0.398	0.000	0.218
40.00	-68.07	-10.17	0.00	-1009.8	0.00	1009.88	4731.61	1276.79	5494.70	4978.87	1.72	-0.420	0.000	0.217
42.00	-67.25	-10.11	0.00	-989.54	0.00	989.54	4707.65	1264.52	5389.66	4905.68	1.90	-0.443	0.000	0.216
43.92	-66.48	-10.05	0.00	-970.15	0.00	970.15	4684.30	1252.77	5289.95	4835.60	2.08	-0.466	0.000	0.215
44.00	-66.42	-10.06	0.00	-969.31	0.00	969.31	4683.27	1252.26	5285.64	4832.55	2.09	-0.467	0.000	0.215
46.00	-65.07	-9.99	0.00	-949.20	0.00	949.20	4658.48	1240.00	5182.62	4759.49	2.29	-0.490	0.000	0.213
48.00	-63.72	-9.93	0.00	-929.21	0.00	929.21	4633.27	1227.74	5080.62	4686.52	2.50	-0.514	0.000	0.212
50.00	-62.39	-9.86	0.00	-909.36	0.00	909.36	4607.64	1215.47	4979.64	4613.64	2.72	-0.537	0.000	0.211
51.00	-61.73	-9.82	0.00	-899.50	0.00	899.50	4157.28	1142.33	4736.69	4216.21	2.83	-0.549	0.000	0.228
52.00	-61.35	-9.80	0.00	-889.67	0.00	889.67	4146.96	1136.64	4689.60	4184.61	2.95	-0.561	0.000	0.227
54.00	-60.60	-9.74	0.00	-870.07	0.00	870.07	4126.01	1125.25	4596.10	4121.41	3.19	-0.586	0.000	0.226
56.00	-59.86	-9.68	0.00	-850.59	0.00	850.59	4104.64	1113.86	4503.55	4058.23	3.44	-0.611	0.000	0.224
58.00	-59.12	-9.62	0.00	-831.23	0.00	831.23	4082.85	1102.48	4411.95	3995.08	3.70	-0.636	0.000	0.223
60.00	-58.39	-9.56	0.00	-811.99	0.00	811.99	4060.64	1091.09	4321.28	3931.97	3.97	-0.661	0.000	0.221
62.00	-57.66	-9.50	0.00	-792.87	0.00	792.87	4038.02	1079.70	4231.55	3868.91	4.26	-0.687	0.000	0.219
64.00	-56.94	-9.44	0.00	-773.88	0.00	773.88	4014.98	1068.31	4142.77	3805.92	4.55	-0.713	0.000	0.218
66.00	-56.23	-9.38	0.00	-755.00	0.00	755.00	3991.52	1056.93	4054.92	3743.01	4.85	-0.738	0.000	0.216
68.00	-55.52	-9.32	0.00	-736.25	0.00	736.25	3967.65	1045.54	3968.02	3680.19	5.17	-0.764	0.000	0.214
70.00	-54.82	-9.25	0.00	-717.62	0.00	717.62	3943.36	1034.15	3882.06	3617.47	5.50	-0.791	0.000	0.212
72.00	-54.13	-9.19	0.00	-699.11	0.00	699.11	3918.66	1022.77	3797.04	3554.87	5.83	-0.817	0.000	0.211
74.00	-53.44	-9.13	0.00	-680.73	0.00	680.73	3893.54	1011.38	3712.96	3492.40	6.18	-0.844	0.000	0.209
76.00	-52.76	-9.07	0.00	-662.47	0.00	662.47	3868.00	999.99	3629.83	3430.07	6.54	-0.870	0.000	0.207
78.00	-52.09	-9.01	0.00	-644.33	0.00	644.33	3842.04	988.61	3547.63	3367.90	6.91	-0.897	0.000	0.205
80.00	-51.42	-8.95	0.00	-626.31	0.00	626.31	3815.67	977.22	3466.38	3305.90	7.29	-0.925	0.000	0.203
82.00	-50.75	-8.89	0.00	-608.42	0.00	608.42	3788.88	965.83	3386.07	3244.07	7.69	-0.952	0.000	0.201
84.00	-50.10	-8.82	0.00	-590.65	0.00	590.65	3761.67	954.44	3306.69	3182.44	8.09	-0.979	0.000	0.199
86.00	-49.45	-8.76	0.00	-573.00	0.00	573.00	3734.05	943.06	3228.26	3121.02	8.51	-1.007	0.000	0.197
88.00	-48.81	-8.70	0.00	-555.48	0.00	555.48	3706.01	931.67	3150.77	3059.82	8.93	-1.035	0.000	0.195
90.00	-48.17	-8.63	0.00	-538.07	0.00	538.07	3677.55	920.28	3074.23	2998.84	9.37	-1.062	0.000	0.193

Calculated Forces

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 45	

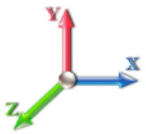
90.17	-48.12	-8.64	0.00	-536.63	0.00	536.63	3675.16	919.33	3067.89	2993.77	9.41	-1.065	0.000	0.192
92.00	-47.20	-8.57	0.00	-520.80	0.00	520.80	3648.68	908.90	2998.62	2938.12	9.83	-1.091	0.000	0.190
94.00	-46.21	-8.50	0.00	-503.66	0.00	503.66	3619.39	897.51	2923.96	2877.64	10.29	-1.119	0.000	0.188
96.00	-45.24	-8.43	0.00	-486.65	0.00	486.65	2873.56	764.37	2506.37	2303.28	10.76	-1.147	0.000	0.227
98.00	-44.68	-8.37	0.00	-469.78	0.00	469.78	2853.66	754.73	2443.58	2258.25	11.25	-1.175	0.000	0.224
100.00	-44.13	-8.32	0.00	-453.04	0.00	453.04	2833.34	745.10	2381.59	2213.29	11.75	-1.207	0.000	0.220
102.00	-43.58	-8.26	0.00	-436.40	0.00	436.40	2812.61	735.46	2320.39	2168.43	12.26	-1.239	0.000	0.217
104.00	-43.04	-8.20	0.00	-419.89	0.00	419.89	2791.46	725.83	2259.99	2123.68	12.79	-1.270	0.000	0.213
106.00	-42.51	-8.14	0.00	-403.49	0.00	403.49	2769.89	716.19	2200.39	2079.04	13.33	-1.302	0.000	0.210
108.00	-41.98	-8.08	0.00	-387.21	0.00	387.21	2747.90	706.55	2141.58	2034.53	13.88	-1.334	0.000	0.206
110.00	-41.46	-8.03	0.00	-371.04	0.00	371.04	2725.50	696.92	2083.57	1990.17	14.44	-1.366	0.000	0.202
112.00	-40.94	-7.97	0.00	-354.99	0.00	354.99	2702.68	687.28	2026.36	1945.97	15.02	-1.397	0.000	0.198
114.00	-40.43	-7.91	0.00	-339.05	0.00	339.05	2679.45	677.65	1969.94	1901.93	15.62	-1.429	0.000	0.193
116.00	-39.93	-7.85	0.00	-323.23	0.00	323.23	2655.79	668.01	1914.32	1858.08	16.22	-1.460	0.000	0.189
118.00	-39.43	-7.80	0.00	-307.53	0.00	307.53	2631.73	658.38	1859.50	1814.42	16.84	-1.492	0.000	0.185
120.00	-38.93	-7.74	0.00	-291.93	0.00	291.93	2607.24	648.74	1805.47	1770.96	17.47	-1.523	0.000	0.180
122.00	-38.45	-7.68	0.00	-276.46	0.00	276.46	2582.34	639.11	1752.24	1727.73	18.12	-1.553	0.000	0.175
124.00	-37.96	-7.62	0.00	-261.10	0.00	261.10	2557.02	629.47	1699.80	1684.74	18.77	-1.584	0.000	0.170
126.00	-37.49	-7.57	0.00	-245.85	0.00	245.85	2531.28	619.84	1648.16	1641.98	19.44	-1.614	0.000	0.165
128.00	-37.02	-7.51	0.00	-230.71	0.00	230.71	2505.13	610.20	1597.32	1599.49	20.13	-1.643	0.000	0.159
130.00	-36.55	-7.45	0.00	-215.69	0.00	215.69	2478.56	600.57	1547.28	1557.27	20.82	-1.672	0.000	0.153
132.00	-36.10	-7.39	0.00	-200.79	0.00	200.79	2451.58	590.93	1498.03	1515.33	21.53	-1.701	0.000	0.147
133.33	-35.79	-7.35	0.00	-190.93	0.00	190.93	2433.35	584.51	1465.64	1487.53	22.00	-1.719	0.000	0.143
134.00	-35.58	-7.34	0.00	-186.03	0.00	186.03	2424.17	581.30	1449.58	1473.69	22.25	-1.729	0.000	0.141
136.00	-34.93	-7.27	0.00	-171.35	0.00	171.35	2396.35	571.66	1401.92	1432.35	22.98	-1.756	0.000	0.134
138.00	-34.29	-7.21	0.00	-156.81	0.00	156.81	1545.45	417.14	1026.36	929.77	23.72	-1.781	0.000	0.191
140.00	-29.42	-6.13	0.00	-142.39	0.00	142.39	1531.69	410.13	992.17	905.88	24.47	-1.806	0.000	0.177
142.00	-29.06	-6.07	0.00	-130.13	0.00	130.13	1517.50	403.12	958.56	882.03	25.23	-1.837	0.000	0.167
144.00	-28.70	-6.02	0.00	-117.98	0.00	117.98	1502.90	396.11	925.52	858.22	26.01	-1.867	0.000	0.157
146.00	-28.35	-5.96	0.00	-105.94	0.00	105.94	1487.88	389.11	893.06	834.49	26.80	-1.895	0.000	0.146
148.00	-28.00	-5.91	0.00	-94.02	0.00	94.02	1472.45	382.10	861.19	810.82	27.60	-1.921	0.000	0.135
150.00	-22.50	-4.65	0.00	-82.20	0.00	82.20	1456.60	375.09	829.89	787.25	28.41	-1.946	0.000	0.120
152.00	-22.19	-4.59	0.00	-72.89	0.00	72.89	1440.33	368.08	799.17	763.78	29.23	-1.969	0.000	0.111
154.00	-21.88	-4.54	0.00	-63.71	0.00	63.71	1423.65	361.08	769.03	740.42	30.06	-1.990	0.000	0.102
156.00	-21.58	-4.48	0.00	-54.63	0.00	54.63	1406.55	354.07	739.47	717.20	30.89	-2.010	0.000	0.092
158.00	-18.57	-3.87	0.00	-45.67	0.00	45.67	1389.03	347.06	710.49	694.11	31.74	-2.028	0.000	0.079
160.00	-16.27	-3.29	0.00	-37.93	0.00	37.93	1371.10	340.05	682.09	671.17	32.59	-2.043	0.000	0.068
162.00	-16.01	-3.23	0.00	-31.36	0.00	31.36	1352.75	333.05	654.27	648.41	33.45	-2.057	0.000	0.060
164.00	-15.76	-3.17	0.00	-24.90	0.00	24.90	1333.98	326.04	627.03	625.81	34.32	-2.069	0.000	0.052
166.00	-8.28	-1.67	0.00	-18.56	0.00	18.56	1314.79	319.03	600.37	603.42	35.18	-2.079	0.000	0.037
168.00	-8.04	-1.62	0.00	-15.21	0.00	15.21	1295.19	312.03	574.28	581.22	36.06	-2.087	0.000	0.032
170.00	-7.81	-1.56	0.00	-11.97	0.00	11.97	1275.17	305.02	548.78	559.24	36.93	-2.094	0.000	0.028
172.00	-7.59	-1.51	0.00	-8.84	0.00	8.84	1251.65	298.01	523.85	536.17	37.81	-2.100	0.000	0.023
174.00	-7.37	-1.46	0.00	-5.82	0.00	5.82	1222.21	291.00	499.51	511.11	38.69	-2.104	0.000	0.017
176.00	-7.16	-1.40	0.00	-2.91	0.00	2.91	1192.78	284.00	475.74	486.64	39.57	-2.107	0.000	0.012
178.00	-0.20	-0.05	0.00	-0.10	0.00	0.10	1163.35	276.99	452.55	462.78	40.46	-2.108	0.000	0.000
180.00	0.00	-0.04	0.00	0.00	0.00	0.00	1133.92	269.98	429.95	439.52	41.34	-2.108	0.000	0.000

Seismic Segment Forces (Factored)

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 46	

Tower Engineering Solutions

Load Case: 1.2D + 1.0Ev + 1.0Eh



Gust Response Factor	1.10			**Sds**	0.22	**Iterations**	25
Dead Load Factor	1.20	**Seismic Load Factor**	1.00	**Sd1**	0.09	**Ss**	0.21
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.28	**SA**	0.02	**S1**	0.05
						Seismic Importance Factor	1.00

Top Elev (ft)	Description	Wz (lb)	Hz (lb)	Vertical Ev (lb)	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	
2.00		590.99	1.00	26.48	0.00	
4.00		622.70	3.00	27.90	0.00	
6.00		654.41	5.00	29.32	0.01	
8.00		649.65	7.00	29.10	0.01	
10.00		644.90	9.00	28.89	0.02	
12.00		640.14	11.00	28.68	0.03	
14.00		635.39	13.00	28.47	0.04	
16.00		630.63	15.00	28.25	0.05	
18.00		625.88	17.00	28.04	0.07	
20.00		621.12	19.00	27.83	0.08	
22.00		616.37	21.00	27.61	0.10	
24.00		611.61	23.00	27.40	0.12	
26.00		606.86	25.00	27.19	0.14	
28.00		602.10	27.00	26.97	0.16	
30.00		597.35	29.00	26.76	0.18	
32.00		592.59	31.00	26.55	0.20	
34.00		587.83	33.00	26.33	0.23	
36.00		583.08	35.00	26.12	0.25	
38.00		578.32	37.00	25.91	0.28	
40.00		573.57	39.00	25.70	0.30	
42.00		568.81	41.00	25.48	0.33	
43.92	Bot - Section 2	540.65	42.96	24.22	0.32	
44.00		42.51	43.96	1.90	0.00	
46.00		1015.5	45.00	45.50	1.26	
48.00		1006.3	47.00	45.08	1.34	
50.00		997.18	49.00	44.67	1.44	
51.00	Top - Section 1	495.15	50.50	22.18	0.38	
52.00		258.97	51.50	11.60	0.11	
54.00		514.64	53.00	23.06	0.45	
56.00		510.22	55.00	22.86	0.47	
58.00		505.80	57.00	22.66	0.50	
60.00		501.39	59.00	22.46	0.53	
62.00		496.97	61.00	22.26	0.55	
64.00		492.56	63.00	22.07	0.58	
66.00		488.14	65.00	21.87	0.61	
68.00		483.73	67.00	21.67	0.63	
70.00		479.31	69.00	21.47	0.66	
72.00		474.89	71.00	21.28	0.68	
74.00		470.48	73.00	21.08	0.71	
76.00		466.06	75.00	20.88	0.73	
78.00		461.65	77.00	20.68	0.76	
80.00		457.23	79.00	20.48	0.78	
82.00		452.82	81.00	20.29	0.81	
84.00		448.40	83.00	20.09	0.83	
86.00		443.99	85.00	19.89	0.86	

Seismic Segment Forces (Factored)

Structure:	CT46130-A-SBA		**Code:**	EIA/TIA-222-H	5/21/2021
Site Name:	Deep River-winthrop Rd		**Exposure:**	C	
Height:	180.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 47

88.00		439.57	87.00	19.69	0.88		
90.00		435.15	89.00	19.49	0.90		
90.17	Bot - Section 3	36.06	90.08	1.62	0.01		
92.00		674.80	91.08	30.23	2.27		
94.00		728.33	93.00	32.63	2.76		
96.00	Top - Section 2	720.18	95.00	32.26	2.81		
98.00		370.62	97.00	16.60	0.78		
100.00		366.88	99.00	16.44	0.79		
102.00		363.14	101.00	16.27	0.81		
104.00		359.41	103.00	16.10	0.82		
106.00		355.67	105.00	15.93	0.84		
108.00		351.93	107.00	15.77	0.85		
110.00		348.20	109.00	15.60	0.87		
112.00		344.46	111.00	15.43	0.88		
114.00		340.73	113.00	15.26	0.89		
116.00		336.99	115.00	15.10	0.90		
118.00		333.25	117.00	14.93	0.91		
120.00		329.52	119.00	14.76	0.92		
122.00		325.78	121.00	14.59	0.93		
124.00		322.04	123.00	14.43	0.94		
126.00		318.31	125.00	14.26	0.95		
128.00		314.57	127.00	14.09	0.96		
130.00		310.83	129.00	13.93	0.97		
132.00		307.10	131.00	13.76	0.97		
133.33	Bot - Section 4	202.66	132.67	9.08	0.43		
134.00		156.59	133.67	7.02	0.26		
136.00		465.46	135.00	20.85	2.37		
138.00	Top - Section 3	459.01	137.00	20.56	2.38		
140.00	Appurtenance(s)	2744.5	139.00	122.96	87.49		
142.00		231.36	141.00	10.36	0.64		
144.00		228.64	143.00	10.24	0.64		
146.00		225.92	145.00	10.12	0.65		
148.00		223.21	147.00	10.00	0.65		
150.00	Appurtenance(s)	2838.5	149.00	127.17	107.54		
152.00		193.84	151.00	8.68	0.52		
154.00		191.13	153.00	8.56	0.51		
156.00		188.41	155.00	8.44	0.51		
158.00	Appurtenance(s)	1932.6	157.00	86.58	55.35		
160.00	Appurtenance(s)	909.88	159.00	40.76	12.58		
162.00		147.81	161.00	6.62	0.34		
164.00		145.09	163.00	6.50	0.34		
166.00	Appurtenance(s)	3839.7	165.00	172.02	241.31		
168.00		130.50	167.00	5.85	0.29		
170.00		127.78	169.00	5.72	0.28		
172.00		125.06	171.00	5.60	0.27		
174.00		122.35	173.00	5.48	0.27		
176.00		119.63	175.00	5.36	0.26		
178.00	Appurtenance(s)	3436.5	177.00	153.96	222.42		
180.00		109.20	179.00	4.89	0.23		
	Totals:	**53,968.1**		**2,417.8**	**782.7**	**Total Wind:**	**50,842.3**

Seismic Base Shear is Less Than 50% of Wind Force - An Analysis is NOT Required

Calculated Forces

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 48	

Tower Engineering Solutions

Load Case:	1.2D + 1.0Ev + 1.0Eh							**Iterations**	25
Gust Response Factor	1.10			**Sds**	0.22			**Ss**	0.21
Dead Load Factor	1.20	**Seismic Load Factor**	1.00	**Sd1**	0.09			**S1**	0.05
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.28	**SA**	0.02	**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	-65.99	-0.78	0.00	-132.76	0.00	132.76	5123.29	1522.04	7808.40	6435.29		0.00	0.00	0.034
2.00	-65.26	-0.78	0.00	-131.19	0.00	131.19	5107.67	1509.78	7683.09	6363.61		0.00	0.00	0.033
4.00	-64.49	-0.79	0.00	-129.62	0.00	129.62	5091.62	1497.52	7558.79	6291.73		0.00	0.00	0.033
6.00	-63.69	-0.79	0.00	-128.05	0.00	128.05	5075.16	1485.26	7435.50	6219.67		0.00	-0.01	0.033
8.00	-62.90	-0.79	0.00	-126.48	0.00	126.48	5058.29	1472.99	7313.22	6147.44		0.01	-0.01	0.033
10.00	-62.11	-0.79	0.00	-124.90	0.00	124.90	5041.00	1460.73	7191.96	6075.05		0.01	-0.01	0.033
12.00	-61.33	-0.79	0.00	-123.31	0.00	123.31	5023.29	1448.47	7071.72	6002.51		0.01	-0.01	0.033
14.00	-60.55	-0.80	0.00	-121.73	0.00	121.73	5005.16	1436.20	6952.48	5929.84		0.02	-0.01	0.033
16.00	-59.78	-0.80	0.00	-120.13	0.00	120.13	4986.62	1423.94	6834.27	5857.05		0.02	-0.01	0.032
18.00	-59.02	-0.80	0.00	-118.54	0.00	118.54	4967.66	1411.68	6717.06	5784.16		0.03	-0.02	0.032
20.00	-58.26	-0.80	0.00	-116.94	0.00	116.94	4948.29	1399.42	6600.87	5711.17		0.04	-0.02	0.032
22.00	-57.51	-0.80	0.00	-115.34	0.00	115.34	4928.49	1387.15	6485.69	5638.10		0.05	-0.02	0.032
24.00	-56.76	-0.80	0.00	-113.73	0.00	113.73	4908.28	1374.89	6371.53	5564.95		0.06	-0.02	0.032
26.00	-56.02	-0.81	0.00	-112.13	0.00	112.13	4887.66	1362.63	6258.37	5491.76		0.07	-0.03	0.032
28.00	-55.29	-0.81	0.00	-110.51	0.00	110.51	4866.62	1350.36	6146.24	5418.52		0.08	-0.03	0.032
30.00	-54.56	-0.81	0.00	-108.90	0.00	108.90	4845.16	1338.10	6035.11	5345.24		0.09	-0.03	0.032
32.00	-53.84	-0.81	0.00	-107.28	0.00	107.28	4823.28	1325.84	5925.00	5271.95		0.10	-0.03	0.032
34.00	-53.12	-0.81	0.00	-105.66	0.00	105.66	4800.99	1313.58	5815.91	5198.66		0.12	-0.03	0.031
36.00	-52.41	-0.81	0.00	-104.04	0.00	104.04	4778.28	1301.31	5707.83	5125.37		0.13	-0.04	0.031
38.00	-51.70	-0.81	0.00	-102.41	0.00	102.41	4755.15	1289.05	5600.76	5052.10		0.15	-0.04	0.031
40.00	-51.01	-0.82	0.00	-100.78	0.00	100.78	4731.61	1276.79	5494.70	4978.87		0.16	-0.04	0.031
42.00	-50.31	-0.82	0.00	-99.15	0.00	99.15	4707.65	1264.52	5389.66	4905.68		0.18	-0.04	0.031
43.92	-49.65	-0.82	0.00	-97.59	0.00	97.59	4684.30	1252.77	5289.95	4835.60		0.20	-0.04	0.031
44.00	-49.60	-0.82	0.00	-97.52	0.00	97.52	4683.27	1252.26	5285.64	4832.55		0.20	-0.05	0.031
46.00	-48.35	-0.82	0.00	-95.88	0.00	95.88	4658.48	1240.00	5182.62	4759.49		0.22	-0.05	0.031
48.00	-47.12	-0.82	0.00	-94.25	0.00	94.25	4633.27	1227.74	5080.62	4686.52		0.24	-0.05	0.030
50.00	-45.89	-0.82	0.00	-92.61	0.00	92.61	4607.64	1215.47	4979.64	4613.64		0.26	-0.05	0.030
51.00	-45.28	-0.82	0.00	-91.79	0.00	91.79	4157.28	1142.33	4736.69	4216.21		0.27	-0.05	0.033
52.00	-44.97	-0.82	0.00	-90.98	0.00	90.98	4146.96	1136.64	4689.60	4184.61		0.28	-0.05	0.033
54.00	-44.34	-0.82	0.00	-89.34	0.00	89.34	4126.01	1125.25	4596.10	4121.41		0.31	-0.06	0.032
56.00	-43.72	-0.82	0.00	-87.71	0.00	87.71	4104.64	1113.86	4503.55	4058.23		0.33	-0.06	0.032
58.00	-43.11	-0.82	0.00	-86.07	0.00	86.07	4082.85	1102.48	4411.95	3995.08		0.36	-0.06	0.032
60.00	-42.50	-0.82	0.00	-84.43	0.00	84.43	4060.64	1091.09	4321.28	3931.97		0.38	-0.06	0.032
62.00	-41.89	-0.82	0.00	-82.79	0.00	82.79	4038.02	1079.70	4231.55	3868.91		0.41	-0.07	0.032
64.00	-41.30	-0.82	0.00	-81.14	0.00	81.14	4014.98	1068.31	4142.77	3805.92		0.44	-0.07	0.032
66.00	-40.70	-0.82	0.00	-79.50	0.00	79.50	3991.52	1056.93	4054.92	3743.01		0.47	-0.07	0.031
68.00	-40.12	-0.82	0.00	-77.85	0.00	77.85	3967.65	1045.54	3968.02	3680.19		0.50	-0.08	0.031
70.00	-39.54	-0.82	0.00	-76.21	0.00	76.21	3943.36	1034.15	3882.06	3617.47		0.53	-0.08	0.031
72.00	-38.96	-0.82	0.00	-74.56	0.00	74.56	3918.66	1022.77	3797.04	3554.87		0.57	-0.08	0.031
74.00	-38.39	-0.82	0.00	-72.91	0.00	72.91	3893.54	1011.38	3712.96	3492.40		0.60	-0.08	0.031
76.00	-37.82	-0.83	0.00	-71.26	0.00	71.26	3868.00	999.99	3629.83	3430.07		0.64	-0.09	0.031
78.00	-37.26	-0.83	0.00	-69.61	0.00	69.61	3842.04	988.61	3547.63	3367.90		0.67	-0.09	0.030
80.00	-36.71	-0.83	0.00	-67.96	0.00	67.96	3815.67	977.22	3466.38	3305.90		0.71	-0.09	0.030
82.00	-36.16	-0.83	0.00	-66.31	0.00	66.31	3788.88	965.83	3386.07	3244.07		0.75	-0.10	0.030
84.00	-35.62	-0.83	0.00	-64.66	0.00	64.66	3761.67	954.44	3306.69	3182.44		0.79	-0.10	0.030
86.00	-35.08	-0.83	0.00	-63.01	0.00	63.01	3734.05	943.06	3228.26	3121.02		0.83	-0.10	0.030
88.00	-34.55	-0.83	0.00	-61.36	0.00	61.36	3706.01	931.67	3150.77	3059.82		0.88	-0.10	0.029

Calculated Forces

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 49	

90.00	-34.02	-0.83	0.00	-59.71	0.00	59.71	3677.55	920.28	3074.23	2998.84	0.92	-0.11	0.029
90.17	-33.98	-0.83	0.00	-59.57	0.00	59.57	3675.16	919.33	3067.89	2993.77	0.93	-0.11	0.029
92.00	-33.15	-0.82	0.00	-58.05	0.00	58.05	3648.68	908.90	2998.62	2938.12	0.97	-0.11	0.029
94.00	-32.26	-0.82	0.00	-56.41	0.00	56.41	3619.39	897.51	2923.96	2877.64	1.02	-0.11	0.029
96.00	-31.38	-0.82	0.00	-54.76	0.00	54.76	2873.56	764.37	2506.37	2303.28	1.06	-0.12	0.035
98.00	-30.93	-0.82	0.00	-53.13	0.00	53.13	2853.66	754.73	2443.58	2258.25	1.11	-0.12	0.034
100.00	-30.49	-0.82	0.00	-51.49	0.00	51.49	2833.34	745.10	2381.59	2213.29	1.17	-0.12	0.034
102.00	-30.06	-0.82	0.00	-49.85	0.00	49.85	2812.61	735.46	2320.39	2168.43	1.22	-0.13	0.034
104.00	-29.62	-0.82	0.00	-48.22	0.00	48.22	2791.46	725.83	2259.99	2123.68	1.27	-0.13	0.033
106.00	-29.20	-0.82	0.00	-46.58	0.00	46.58	2769.89	716.19	2200.39	2079.04	1.33	-0.14	0.033
108.00	-28.77	-0.82	0.00	-44.94	0.00	44.94	2747.90	706.55	2141.58	2034.53	1.39	-0.14	0.033
110.00	-28.35	-0.82	0.00	-43.30	0.00	43.30	2725.50	696.92	2083.57	1990.17	1.44	-0.14	0.032
112.00	-27.94	-0.82	0.00	-41.67	0.00	41.67	2702.68	687.28	2026.36	1945.97	1.51	-0.15	0.032
114.00	-27.53	-0.82	0.00	-40.03	0.00	40.03	2679.45	677.65	1969.94	1901.93	1.57	-0.15	0.031
116.00	-27.13	-0.82	0.00	-38.39	0.00	38.39	2655.79	668.01	1914.32	1858.08	1.63	-0.15	0.031
118.00	-26.73	-0.82	0.00	-36.76	0.00	36.76	2631.73	658.38	1859.50	1814.42	1.70	-0.16	0.030
120.00	-26.33	-0.82	0.00	-35.12	0.00	35.12	2607.24	648.74	1805.47	1770.96	1.76	-0.16	0.030
122.00	-25.94	-0.82	0.00	-33.48	0.00	33.48	2582.34	639.11	1752.24	1727.73	1.83	-0.16	0.029
124.00	-25.56	-0.82	0.00	-31.85	0.00	31.85	2557.02	629.47	1699.80	1684.74	1.90	-0.17	0.029
126.00	-25.18	-0.82	0.00	-30.21	0.00	30.21	2531.28	619.84	1648.16	1641.98	1.97	-0.17	0.028
128.00	-24.80	-0.82	0.00	-28.58	0.00	28.58	2505.13	610.20	1597.32	1599.49	2.05	-0.18	0.028
130.00	-24.43	-0.82	0.00	-26.95	0.00	26.95	2478.56	600.57	1547.28	1557.27	2.12	-0.18	0.027
132.00	-24.06	-0.81	0.00	-25.32	0.00	25.32	2451.58	590.93	1498.03	1515.33	2.20	-0.18	0.027
133.33	-23.82	-0.81	0.00	-24.23	0.00	24.23	2433.35	584.51	1465.64	1487.53	2.25	-0.19	0.026
134.00	-23.63	-0.81	0.00	-23.69	0.00	23.69	2424.17	581.30	1449.58	1473.69	2.27	-0.19	0.026
136.00	-23.06	-0.81	0.00	-22.06	0.00	22.06	2396.35	571.66	1401.92	1432.35	2.35	-0.19	0.025
138.00	-22.51	-0.81	0.00	-20.44	0.00	20.44	1545.45	417.14	1026.36	929.77	2.43	-0.19	0.037
140.00	-19.11	-0.71	0.00	-18.82	0.00	18.82	1531.69	410.13	992.17	905.88	2.51	-0.20	0.033
142.00	-18.83	-0.71	0.00	-17.40	0.00	17.40	1517.50	403.12	958.56	882.03	2.60	-0.20	0.032
144.00	-18.56	-0.71	0.00	-15.97	0.00	15.97	1502.90	396.11	925.52	858.22	2.68	-0.20	0.031
146.00	-18.30	-0.71	0.00	-14.55	0.00	14.55	1487.88	389.11	893.06	834.49	2.77	-0.21	0.030
148.00	-18.03	-0.71	0.00	-13.13	0.00	13.13	1472.45	382.10	861.19	810.82	2.86	-0.21	0.028
150.00	-14.52	-0.59	0.00	-11.71	0.00	11.71	1456.60	375.09	829.89	787.25	2.95	-0.22	0.025
152.00	-14.28	-0.59	0.00	-10.54	0.00	10.54	1440.33	368.08	799.17	763.78	3.04	-0.22	0.024
154.00	-14.06	-0.59	0.00	-9.36	0.00	9.36	1423.65	361.08	769.03	740.42	3.13	-0.22	0.023
156.00	-13.83	-0.59	0.00	-8.18	0.00	8.18	1406.55	354.07	739.47	717.20	3.22	-0.22	0.021
158.00	-11.44	-0.52	0.00	-7.00	0.00	7.00	1389.03	347.06	710.49	694.11	3.32	-0.23	0.018
160.00	-10.31	-0.51	0.00	-5.96	0.00	5.96	1371.10	340.05	682.09	671.17	3.41	-0.23	0.016
162.00	-10.13	-0.51	0.00	-4.94	0.00	4.94	1352.75	333.05	654.27	648.41	3.51	-0.23	0.015
164.00	-9.96	-0.51	0.00	-3.93	0.00	3.93	1333.98	326.04	627.03	625.81	3.61	-0.23	0.014
166.00	-5.18	-0.25	0.00	-2.92	0.00	2.92	1314.79	319.03	600.37	603.42	3.71	-0.24	0.009
168.00	-5.02	-0.24	0.00	-2.43	0.00	2.43	1295.19	312.03	574.28	581.22	3.81	-0.24	0.008
170.00	-4.86	-0.24	0.00	-1.94	0.00	1.94	1275.17	305.02	548.78	559.24	3.91	-0.24	0.007
172.00	-4.71	-0.24	0.00	-1.45	0.00	1.45	1251.65	298.01	523.85	536.17	4.01	-0.24	0.006
174.00	-4.56	-0.24	0.00	-0.97	0.00	0.97	1222.21	291.00	499.51	511.11	4.11	-0.24	0.006
176.00	-4.41	-0.24	0.00	-0.48	0.00	0.48	1192.78	284.00	475.74	486.64	4.21	-0.24	0.005
178.00	-0.14	0.00	0.00	0.00	0.00	0.00	1163.35	276.99	452.55	462.78	4.31	-0.24	0.000
180.00	0.00	0.00	0.00	0.00	0.00	0.00	1133.92	269.98	429.95	439.52	4.41	-0.24	0.000

Seismic Segment Forces (Factored)

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 50	

Tower Engineering Solutions

Load Case: 0.9D + 1.0Ev + 1.0Eh

Gust Response Factor	1.10			**Sds**	0.22	**Iterations**	25
Dead Load Factor	0.90	**Seismic Load Factor**	1.00	**Sd1**	0.09	**Ss**	0.21
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.28	**SA**	0.02	**S1**	0.05
						Seismic Importance Factor	1.00

Top Elev (ft)	Description	Wz (lb)	Hz (lb)	Vertical Ev (lb)	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	
2.00		590.21	1.00	26.44	0.00	
4.00		612.80	3.00	27.45	0.00	
6.00		635.39	5.00	28.47	0.01	
8.00		630.63	7.00	28.25	0.01	
10.00		625.88	9.00	28.04	0.02	
12.00		621.12	11.00	27.83	0.03	
14.00		616.37	13.00	27.61	0.04	
16.00		611.61	15.00	27.40	0.05	
18.00		606.86	17.00	27.19	0.06	
20.00		602.10	19.00	26.97	0.08	
22.00		597.35	21.00	26.76	0.10	
24.00		592.59	23.00	26.55	0.11	
26.00		587.84	25.00	26.34	0.13	
28.00		583.08	27.00	26.12	0.15	
30.00		578.33	29.00	25.91	0.17	
32.00		573.57	31.00	25.70	0.19	
34.00		568.82	33.00	25.48	0.21	
36.00		564.06	35.00	25.27	0.24	
38.00		559.30	37.00	25.06	0.26	
40.00		554.55	39.00	24.84	0.28	
42.00		549.79	41.00	24.63	0.31	
43.92	Bot - Section 2	522.42	42.96	23.40	0.31	
44.00		41.72	43.96	1.87	0.00	
46.00		996.50	45.00	44.64	1.22	
48.00		987.33	47.00	44.23	1.31	
50.00		978.16	49.00	43.82	1.40	
51.00	Top - Section 1	485.64	50.50	21.76	0.37	
52.00		249.46	51.50	11.18	0.10	
54.00		495.62	53.00	22.20	0.42	
56.00		491.20	55.00	22.01	0.44	
58.00		486.78	57.00	21.81	0.47	
60.00		482.37	59.00	21.61	0.49	
62.00		477.95	61.00	21.41	0.52	
64.00		473.54	63.00	21.21	0.54	
66.00		469.12	65.00	21.02	0.57	
68.00		464.71	67.00	20.82	0.59	
70.00		460.29	69.00	20.62	0.61	
72.00		455.88	71.00	20.42	0.64	
74.00		451.46	73.00	20.23	0.66	
76.00		447.04	75.00	20.03	0.68	
78.00		442.63	77.00	19.83	0.71	
80.00		438.21	79.00	19.63	0.73	
82.00		433.80	81.00	19.43	0.75	
84.00		429.38	83.00	19.24	0.77	
86.00		424.97	85.00	19.04	0.79	

Seismic Segment Forces (Factored)

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 51	

88.00			420.55	87.00	18.84	0.81		
90.00			416.13	89.00	18.64	0.83		
90.17	Bot - Section 3		34.48	90.08	1.54	0.01		
92.00			657.37	91.08	29.45	2.18		
94.00			709.31	93.00	31.78	2.65		
96.00	Top - Section 2		701.16	95.00	31.41	2.70		
98.00			351.60	97.00	15.75	0.71		
100.00			347.86	99.00	15.58	0.72		
102.00			344.12	101.00	15.42	0.73		
104.00			340.39	103.00	15.25	0.75		
106.00			336.65	105.00	15.08	0.76		
108.00			332.91	107.00	14.91	0.77		
110.00			329.18	109.00	14.75	0.78		
112.00			325.44	111.00	14.58	0.79		
114.00			321.71	113.00	14.41	0.80		
116.00			317.97	115.00	14.25	0.81		
118.00			314.23	117.00	14.08	0.82		
120.00			310.50	119.00	13.91	0.83		
122.00			306.76	121.00	13.74	0.84		
124.00			303.02	123.00	13.58	0.84		
126.00			299.29	125.00	13.41	0.85		
128.00			295.55	127.00	13.24	0.86		
130.00			291.82	129.00	13.07	0.86		
132.00			288.08	131.00	12.91	0.87		
133.33	Bot - Section 4		189.98	132.67	8.51	0.39		
134.00			150.25	133.67	6.73	0.25		
136.00			446.44	135.00	20.00	2.21		
138.00	Top - Section 3		439.99	137.00	19.71	2.21		
140.00	Appurtenance(s)		2725.5	139.00	122.10	87.30		
142.00			212.94	141.00	9.54	0.55		
144.00			210.22	143.00	9.42	0.55		
146.00			207.50	145.00	9.30	0.55		
148.00			204.79	147.00	9.17	0.55		
150.00	Appurtenance(s)		2820.1	149.00	126.34	107.40		
152.00			181.41	151.00	8.13	0.46		
154.00			178.69	153.00	8.01	0.45		
156.00			175.97	155.00	7.88	0.45		
158.00	Appurtenance(s)		1920.2	157.00	86.03	55.29		
160.00	Appurtenance(s)		897.44	159.00	40.21	12.38		
162.00			143.48	161.00	6.43	0.32		
164.00			140.77	163.00	6.31	0.32		
166.00	Appurtenance(s)		3835.4	165.00	171.83	243.61		
168.00			128.46	167.00	5.76	0.28		
170.00			125.75	169.00	5.63	0.27		
172.00			123.03	171.00	5.51	0.27		
174.00			120.31	173.00	5.39	0.26		
176.00			117.59	175.00	5.27	0.26		
178.00	Appurtenance(s)		3434.4	177.00	153.86	224.78		
180.00			108.42	179.00	4.86	0.23		
		Totals:	**52,483.9**		**2,351.3**	**782.7**	**Total Wind:**	**50,842.3**

Seismic Base Shear is Less Than 50% of Wind Force - An Analysis is NOT Required

Calculated Forces

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 52	

Tower Engineering Solutions

Load Case: 0.9D + 1.0Ev + 1.0Eh

Gust Response Factor	1.10			**Sds**	0.22			**Iterations**	25
Dead Load Factor	0.90	**Seismic Load Factor**	1.00	**Sd1**	0.09			**Ss**	0.21
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.28	**SA**	0.02			**S1**	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	-50.03	-0.78	0.00	-130.86	0.00	130.86	5123.29	1522.04	7808.40	6435.29		0.00	0.00	0.030
2.00	-49.47	-0.78	0.00	-129.30	0.00	129.30	5107.67	1509.78	7683.09	6363.61		0.00	0.00	0.030
4.00	-48.89	-0.78	0.00	-127.73	0.00	127.73	5091.62	1497.52	7558.79	6291.73		0.00	0.00	0.030
6.00	-48.29	-0.79	0.00	-126.16	0.00	126.16	5075.16	1485.26	7435.50	6219.67		0.00	-0.01	0.030
8.00	-47.68	-0.79	0.00	-124.59	0.00	124.59	5058.29	1472.99	7313.22	6147.44		0.01	-0.01	0.030
10.00	-47.09	-0.79	0.00	-123.01	0.00	123.01	5041.00	1460.73	7191.96	6075.05		0.01	-0.01	0.030
12.00	-46.49	-0.79	0.00	-121.43	0.00	121.43	5023.29	1448.47	7071.72	6002.51		0.01	-0.01	0.029
14.00	-45.91	-0.79	0.00	-119.85	0.00	119.85	5005.16	1436.20	6952.48	5929.84		0.02	-0.01	0.029
16.00	-45.32	-0.79	0.00	-118.27	0.00	118.27	4986.62	1423.94	6834.27	5857.05		0.02	-0.01	0.029
18.00	-44.74	-0.79	0.00	-116.68	0.00	116.68	4967.66	1411.68	6717.06	5784.16		0.03	-0.02	0.029
20.00	-44.17	-0.80	0.00	-115.09	0.00	115.09	4948.29	1399.42	6600.87	5711.17		0.04	-0.02	0.029
22.00	-43.60	-0.80	0.00	-113.50	0.00	113.50	4928.49	1387.15	6485.69	5638.10		0.05	-0.02	0.029
24.00	-43.03	-0.80	0.00	-111.91	0.00	111.91	4908.28	1374.89	6371.53	5564.95		0.06	-0.02	0.029
26.00	-42.47	-0.80	0.00	-110.31	0.00	110.31	4887.66	1362.63	6258.37	5491.76		0.07	-0.02	0.029
28.00	-41.92	-0.80	0.00	-108.71	0.00	108.71	4866.62	1350.36	6146.24	5418.52		0.08	-0.03	0.029
30.00	-41.36	-0.80	0.00	-107.11	0.00	107.11	4845.16	1338.10	6035.11	5345.24		0.09	-0.03	0.029
32.00	-40.82	-0.80	0.00	-105.51	0.00	105.51	4823.28	1325.84	5925.00	5271.95		0.10	-0.03	0.028
34.00	-40.27	-0.80	0.00	-103.90	0.00	103.90	4800.99	1313.58	5815.91	5198.66		0.11	-0.03	0.028
36.00	-39.73	-0.80	0.00	-102.29	0.00	102.29	4778.28	1301.31	5707.83	5125.37		0.13	-0.04	0.028
38.00	-39.20	-0.81	0.00	-100.68	0.00	100.68	4755.15	1289.05	5600.76	5052.10		0.14	-0.04	0.028
40.00	-38.67	-0.81	0.00	-99.07	0.00	99.07	4731.61	1276.79	5494.70	4978.87		0.16	-0.04	0.028
42.00	-38.15	-0.81	0.00	-97.46	0.00	97.46	4707.65	1264.52	5389.66	4905.68		0.18	-0.04	0.028
43.92	-37.65	-0.81	0.00	-95.91	0.00	95.91	4684.30	1252.77	5289.95	4835.60		0.19	-0.04	0.028
44.00	-37.61	-0.81	0.00	-95.85	0.00	95.85	4683.27	1252.26	5285.64	4832.55		0.20	-0.04	0.028
46.00	-36.66	-0.81	0.00	-94.23	0.00	94.23	4658.48	1240.00	5182.62	4759.49		0.21	-0.05	0.028
48.00	-35.72	-0.81	0.00	-92.61	0.00	92.61	4633.27	1227.74	5080.62	4686.52		0.23	-0.05	0.027
50.00	-34.79	-0.81	0.00	-91.00	0.00	91.00	4607.64	1215.47	4979.64	4613.64		0.26	-0.05	0.027
51.00	-34.33	-0.81	0.00	-90.19	0.00	90.19	4157.28	1142.33	4736.69	4216.21		0.27	-0.05	0.030
52.00	-34.09	-0.81	0.00	-89.39	0.00	89.39	4146.96	1136.64	4689.60	4184.61		0.28	-0.05	0.030
54.00	-33.62	-0.81	0.00	-87.77	0.00	87.77	4126.01	1125.25	4596.10	4121.41		0.30	-0.06	0.029
56.00	-33.15	-0.81	0.00	-86.16	0.00	86.16	4104.64	1113.86	4503.55	4058.23		0.32	-0.06	0.029
58.00	-32.68	-0.81	0.00	-84.54	0.00	84.54	4082.85	1102.48	4411.95	3995.08		0.35	-0.06	0.029
60.00	-32.22	-0.81	0.00	-82.93	0.00	82.93	4060.64	1091.09	4321.28	3931.97		0.38	-0.06	0.029
62.00	-31.76	-0.81	0.00	-81.31	0.00	81.31	4038.02	1079.70	4231.55	3868.91		0.40	-0.07	0.029
64.00	-31.31	-0.81	0.00	-79.69	0.00	79.69	4014.98	1068.31	4142.77	3805.92		0.43	-0.07	0.029
66.00	-30.86	-0.81	0.00	-78.07	0.00	78.07	3991.52	1056.93	4054.92	3743.01		0.46	-0.07	0.029
68.00	-30.42	-0.81	0.00	-76.45	0.00	76.45	3967.65	1045.54	3968.02	3680.19		0.49	-0.07	0.028
70.00	-29.97	-0.81	0.00	-74.83	0.00	74.83	3943.36	1034.15	3882.06	3617.47		0.52	-0.08	0.028
72.00	-29.54	-0.81	0.00	-73.21	0.00	73.21	3918.66	1022.77	3797.04	3554.87		0.56	-0.08	0.028
74.00	-29.11	-0.81	0.00	-71.59	0.00	71.59	3893.54	1011.38	3712.96	3492.40		0.59	-0.08	0.028
76.00	-28.68	-0.81	0.00	-69.97	0.00	69.97	3868.00	999.99	3629.83	3430.07		0.63	-0.09	0.028
78.00	-28.25	-0.81	0.00	-68.35	0.00	68.35	3842.04	988.61	3547.63	3367.90		0.66	-0.09	0.028
80.00	-27.83	-0.81	0.00	-66.72	0.00	66.72	3815.67	977.22	3466.38	3305.90		0.70	-0.09	0.027
82.00	-27.42	-0.81	0.00	-65.10	0.00	65.10	3788.88	965.83	3386.07	3244.07		0.74	-0.09	0.027
84.00	-27.01	-0.81	0.00	-63.48	0.00	63.48	3761.67	954.44	3306.69	3182.44		0.78	-0.10	0.027
86.00	-26.60	-0.81	0.00	-61.86	0.00	61.86	3734.05	943.06	3228.26	3121.02		0.82	-0.10	0.027
88.00	-26.20	-0.81	0.00	-60.24	0.00	60.24	3706.01	931.67	3150.77	3059.82		0.86	-0.10	0.027

Calculated Forces

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 53	

90.00	-25.80	-0.81	0.00	-58.62	0.00	58.62	3677.55	920.28	3074.23	2998.84	0.91	-0.11	0.027
90.17	-25.76	-0.81	0.00	-58.48	0.00	58.48	3675.16	919.33	3067.89	2993.77	0.91	-0.11	0.027
92.00	-25.14	-0.81	0.00	-56.99	0.00	56.99	3648.68	908.90	2998.62	2938.12	0.95	-0.11	0.026
94.00	-24.46	-0.81	0.00	-55.38	0.00	55.38	3619.39	897.51	2923.96	2877.64	1.00	-0.11	0.026
96.00	-23.79	-0.80	0.00	-53.77	0.00	53.77	2873.56	764.37	2506.37	2303.28	1.05	-0.12	0.032
98.00	-23.46	-0.80	0.00	-52.16	0.00	52.16	2853.66	754.73	2443.58	2258.25	1.10	-0.12	0.031
100.00	-23.12	-0.80	0.00	-50.55	0.00	50.55	2833.34	745.10	2381.59	2213.29	1.15	-0.12	0.031
102.00	-22.79	-0.80	0.00	-48.95	0.00	48.95	2812.61	735.46	2320.39	2168.43	1.20	-0.13	0.031
104.00	-22.46	-0.80	0.00	-47.34	0.00	47.34	2791.46	725.83	2259.99	2123.68	1.25	-0.13	0.030
106.00	-22.14	-0.80	0.00	-45.73	0.00	45.73	2769.89	716.19	2200.39	2079.04	1.31	-0.13	0.030
108.00	-21.82	-0.80	0.00	-44.13	0.00	44.13	2747.90	706.55	2141.58	2034.53	1.36	-0.14	0.030
110.00	-21.50	-0.80	0.00	-42.52	0.00	42.52	2725.50	696.92	2083.57	1990.17	1.42	-0.14	0.029
112.00	-21.19	-0.80	0.00	-40.92	0.00	40.92	2702.68	687.28	2026.36	1945.97	1.48	-0.14	0.029
114.00	-20.88	-0.80	0.00	-39.31	0.00	39.31	2679.45	677.65	1969.94	1901.93	1.54	-0.15	0.028
116.00	-20.57	-0.80	0.00	-37.71	0.00	37.71	2655.79	668.01	1914.32	1858.08	1.60	-0.15	0.028
118.00	-20.27	-0.80	0.00	-36.10	0.00	36.10	2631.73	658.38	1859.50	1814.42	1.67	-0.15	0.028
120.00	-19.97	-0.80	0.00	-34.50	0.00	34.50	2607.24	648.74	1805.47	1770.96	1.73	-0.16	0.027
122.00	-19.68	-0.80	0.00	-32.90	0.00	32.90	2582.34	639.11	1752.24	1727.73	1.80	-0.16	0.027
124.00	-19.38	-0.80	0.00	-31.29	0.00	31.29	2557.02	629.47	1699.80	1684.74	1.87	-0.17	0.026
126.00	-19.10	-0.80	0.00	-29.69	0.00	29.69	2531.28	619.84	1648.16	1641.98	1.94	-0.17	0.026
128.00	-18.81	-0.80	0.00	-28.09	0.00	28.09	2505.13	610.20	1597.32	1599.49	2.01	-0.17	0.025
130.00	-18.53	-0.80	0.00	-26.49	0.00	26.49	2478.56	600.57	1547.28	1557.27	2.08	-0.18	0.024
132.00	-18.25	-0.80	0.00	-24.90	0.00	24.90	2451.58	590.93	1498.03	1515.33	2.16	-0.18	0.024
133.33	-18.07	-0.80	0.00	-23.83	0.00	23.83	2433.35	584.51	1465.64	1487.53	2.21	-0.18	0.023
134.00	-17.92	-0.80	0.00	-23.30	0.00	23.30	2424.17	581.30	1449.58	1473.69	2.23	-0.18	0.023
136.00	-17.50	-0.80	0.00	-21.70	0.00	21.70	2396.35	571.66	1401.92	1432.35	2.31	-0.19	0.022
138.00	-17.08	-0.79	0.00	-20.11	0.00	20.11	1545.45	417.14	1026.36	929.77	2.39	-0.19	0.033
140.00	-14.50	-0.70	0.00	-18.53	0.00	18.53	1531.69	410.13	992.17	905.88	2.47	-0.19	0.030
142.00	-14.29	-0.70	0.00	-17.13	0.00	17.13	1517.50	403.12	958.56	882.03	2.55	-0.20	0.029
144.00	-14.08	-0.70	0.00	-15.74	0.00	15.74	1502.90	396.11	925.52	858.22	2.64	-0.20	0.028
146.00	-13.88	-0.70	0.00	-14.34	0.00	14.34	1487.88	389.11	893.06	834.49	2.72	-0.20	0.027
148.00	-13.68	-0.70	0.00	-12.95	0.00	12.95	1472.45	382.10	861.19	810.82	2.81	-0.21	0.025
150.00	-11.01	-0.58	0.00	-11.56	0.00	11.56	1456.60	375.09	829.89	787.25	2.90	-0.21	0.022
152.00	-10.84	-0.58	0.00	-10.40	0.00	10.40	1440.33	368.08	799.17	763.78	2.99	-0.22	0.021
154.00	-10.67	-0.58	0.00	-9.24	0.00	9.24	1423.65	361.08	769.03	740.42	3.08	-0.22	0.020
156.00	-10.50	-0.58	0.00	-8.08	0.00	8.08	1406.55	354.07	739.47	717.20	3.17	-0.22	0.019
158.00	-8.68	-0.52	0.00	-6.92	0.00	6.92	1389.03	347.06	710.49	694.11	3.26	-0.22	0.016
160.00	-7.83	-0.50	0.00	-5.89	0.00	5.89	1371.10	340.05	682.09	671.17	3.36	-0.23	0.014
162.00	-7.69	-0.50	0.00	-4.89	0.00	4.89	1352.75	333.05	654.27	648.41	3.45	-0.23	0.013
164.00	-7.56	-0.50	0.00	-3.89	0.00	3.89	1333.98	326.04	627.03	625.81	3.55	-0.23	0.012
166.00	-3.93	-0.24	0.00	-2.89	0.00	2.89	1314.79	319.03	600.37	603.42	3.64	-0.23	0.008
168.00	-3.81	-0.24	0.00	-2.40	0.00	2.40	1295.19	312.03	574.28	581.22	3.74	-0.23	0.007
170.00	-3.69	-0.24	0.00	-1.92	0.00	1.92	1275.17	305.02	548.78	559.24	3.84	-0.23	0.006
172.00	-3.57	-0.24	0.00	-1.44	0.00	1.44	1251.65	298.01	523.85	536.17	3.94	-0.24	0.006
174.00	-3.46	-0.24	0.00	-0.96	0.00	0.96	1222.21	291.00	499.51	511.11	4.04	-0.24	0.005
176.00	-3.35	-0.24	0.00	-0.48	0.00	0.48	1192.78	284.00	475.74	486.64	4.14	-0.24	0.004
178.00	-0.10	0.00	0.00	0.00	0.00	0.00	1163.35	276.99	452.55	462.78	4.23	-0.24	0.000
180.00	0.00	0.00	0.00	0.00	0.00	0.00	1133.92	269.98	429.95	439.52	4.33	-0.24	0.000

Wind Loading - Shaft

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 54	

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00

Iterations 27

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	6.602	7.26	294.63	0.950	0.000	0.00	0.000	0.00	0.0	0.0	0.0
2.00		1.00	0.85	6.602	7.26	292.27	0.950	0.000	2.00	10.655	10.12	73.5	0.0	587.8
4.00		1.00	0.85	6.602	7.26	289.91	0.950	0.000	2.00	10.569	10.04	72.9	0.0	583.1
6.00		1.00	0.85	6.602	7.26	287.56	0.950	0.000	2.00	10.484	9.96	72.3	0.0	578.3
8.00		1.00	0.85	6.602	7.26	285.20	0.950	0.000	2.00	10.398	9.88	71.7	0.0	573.6
10.00		1.00	0.85	6.602	7.26	282.84	0.950	0.000	2.00	10.313	9.80	71.1	0.0	568.8
12.00		1.00	0.85	6.602	7.26	280.49	0.950	0.000	2.00	10.227	9.72	70.6	0.0	564.1
14.00		1.00	0.85	6.602	7.26	278.13	0.950	0.000	2.00	10.142	9.63	70.0	0.0	559.3
16.00		1.00	0.86	6.684	7.35	277.47	0.950	0.000	2.00	10.056	9.55	70.2	0.0	554.6
18.00		1.00	0.88	6.851	7.54	278.53	0.950	0.000	2.00	9.970	9.47	71.4	0.0	549.8
20.00		1.00	0.90	7.005	7.71	279.21	0.950	0.000	2.00	9.885	9.39	72.4	0.0	545.0
22.00		1.00	0.92	7.147	7.86	279.57	0.950	0.000	2.00	9.799	9.31	73.2	0.0	540.3
24.00		1.00	0.94	7.279	8.01	279.67	0.950	0.000	2.00	9.714	9.23	73.9	0.0	535.5
26.00		1.00	0.95	7.403	8.14	279.54	0.950	0.000	2.00	9.628	9.15	74.5	0.0	530.8
28.00		1.00	0.97	7.519	8.27	279.21	0.950	0.000	2.00	9.542	9.07	75.0	0.0	526.0
30.00		1.00	0.98	7.629	8.39	278.72	0.950	0.000	2.00	9.457	8.98	75.4	0.0	521.3
32.00		1.00	1.00	7.734	8.51	278.06	0.950	0.000	2.00	9.371	8.90	75.7	0.0	516.5
34.00		1.00	1.01	7.833	8.62	277.28	0.950	0.000	2.00	9.286	8.82	76.0	0.0	511.8
36.00		1.00	1.02	7.928	8.72	276.37	0.950	0.000	2.00	9.200	8.74	76.2	0.0	507.0
38.00		1.00	1.03	8.019	8.82	275.35	0.950	0.000	2.00	9.115	8.66	76.4	0.0	502.2
40.00		1.00	1.04	8.106	8.92	274.23	0.950	0.000	2.00	9.029	8.58	76.5	0.0	497.5
42.00		1.00	1.05	8.189	9.01	273.01	0.950	0.000	2.00	8.943	8.50	76.5	0.0	492.7
43.92	Bot - Section 2	1.00	1.06	8.267	9.09	271.77	0.950	0.000	1.92	8.490	8.07	73.3	0.0	467.7
44.00		1.00	1.06	8.270	9.10	271.71	0.950	0.000	0.08	0.373	0.35	3.2	0.0	39.3
46.00		1.00	1.07	8.348	9.18	270.34	0.950	0.000	2.00	8.912	8.47	77.7	0.0	939.4
48.00		1.00	1.08	8.423	9.27	268.89	0.950	0.000	2.00	8.827	8.39	77.7	0.0	930.3
50.00		1.00	1.09	8.495	9.34	267.37	0.950	0.000	2.00	8.741	8.30	77.6	0.0	921.1
51.00	Top - Section 1	1.00	1.10	8.531	9.38	266.59	0.950	0.000	1.00	4.339	4.12	38.7	0.0	457.1
52.00		1.00	1.10	8.566	9.42	270.19	0.950	0.000	1.00	4.317	4.10	38.6	0.0	220.9
54.00		1.00	1.11	8.634	9.50	268.57	0.950	0.000	2.00	8.570	8.14	77.3	0.0	438.6
56.00		1.00	1.12	8.701	9.57	266.90	0.950	0.000	2.00	8.485	8.06	77.1	0.0	434.1
58.00		1.00	1.13	8.765	9.64	265.17	0.950	0.000	2.00	8.399	7.98	76.9	0.0	429.7
60.00		1.00	1.14	8.828	9.71	263.39	0.950	0.000	2.00	8.313	7.90	76.7	0.0	425.3
62.00		1.00	1.14	8.889	9.78	261.57	0.950	0.000	2.00	8.228	7.82	76.4	0.0	420.9
64.00		1.00	1.15	8.949	9.84	259.70	0.950	0.000	2.00	8.142	7.74	76.1	0.0	416.5
66.00		1.00	1.16	9.007	9.91	257.79	0.950	0.000	2.00	8.057	7.65	75.8	0.0	412.1
68.00		1.00	1.17	9.064	9.97	255.84	0.950	0.000	2.00	7.971	7.57	75.5	0.0	407.6
70.00		1.00	1.17	9.119	10.03	253.85	0.950	0.000	2.00	7.885	7.49	75.1	0.0	403.2
72.00		1.00	1.18	9.173	10.09	251.83	0.950	0.000	2.00	7.800	7.41	74.8	0.0	398.8
74.00		1.00	1.19	9.226	10.15	249.77	0.950	0.000	2.00	7.714	7.33	74.4	0.0	394.4
76.00		1.00	1.19	9.278	10.21	247.67	0.950	0.000	2.00	7.629	7.25	74.0	0.0	390.0
78.00		1.00	1.20	9.329	10.26	245.55	0.950	0.000	2.00	7.543	7.17	73.5	0.0	385.6
80.00		1.00	1.21	9.379	10.32	243.40	0.950	0.000	2.00	7.458	7.08	73.1	0.0	381.2
82.00		1.00	1.21	9.428	10.37	241.21	0.950	0.000	2.00	7.372	7.00	72.6	0.0	376.7
84.00		1.00	1.22	9.476	10.42	239.00	0.950	0.000	2.00	7.286	6.92	72.2	0.0	372.3
86.00		1.00	1.23	9.523	10.48	236.76	0.950	0.000	2.00	7.201	6.84	71.7	0.0	367.9
88.00		1.00	1.23	9.569	10.53	234.50	0.950	0.000	2.00	7.115	6.76	71.2	0.0	363.5

Wind Loading - Shaft

Structure: CT46130-A-SBA | **Code:** EIA/TIA-222-H | 5/21/2021

Site Name: Deep River-winthrop Rd | **Exposure:** C

Height: 180.00 (ft) | **Crest Height:** 0.00

Base Elev: 0.000 (ft) | **Site Class:** D - Stiff Soil

Gh: 1.1 | **Topography:** 1 | **Struct Class:** II

Tower Engineering Solutions

90.00	1.00	1.24	9.615	10.58	232.21	0.950	0.000	2.00	7.030	6.68	70.6	0.0	359.1
90.17 Bot - Section 3	1.00	1.24	9.618	10.58	232.02	0.950	0.000	0.17	0.582	0.55	5.8	0.0	29.7
92.00	1.00	1.24	9.659	10.63	229.90	0.950	0.000	1.83	6.471	6.15	65.3	0.0	605.1
94.00	1.00	1.25	9.703	10.67	227.56	0.950	0.000	2.00	6.977	6.63	70.7	0.0	652.3
96.00 Top - Section 2	1.00	1.25	9.746	10.72	225.20	0.950	0.000	2.00	6.891	6.55	70.2	0.0	644.1
98.00	1.00	1.26	9.788	10.77	226.80	0.950	0.000	2.00	6.806	6.47	69.6	0.0	294.5
100.00	1.00	1.27	9.830	10.81	224.41	0.950	0.000	2.00	6.720	6.38	69.0	0.0	290.8
102.00	1.00	1.27	9.871	10.86	221.99	0.950	0.000	2.00	6.635	6.30	68.4	0.0	287.1
104.00	1.00	1.28	9.912	10.90	219.56	0.950	0.000	2.00	6.549	6.22	67.8	0.0	283.3
106.00	1.00	1.28	9.951	10.95	217.11	0.950	0.000	2.00	6.464	6.14	67.2	0.0	279.6
108.00	1.00	1.29	9.991	10.99	214.63	0.950	0.000	2.00	6.378	6.06	66.6	0.0	275.9
110.00	1.00	1.29	10.029	11.03	212.14	0.950	0.000	2.00	6.292	5.98	65.9	0.0	272.1
112.00	1.00	1.30	10.068	11.07	209.64	0.950	0.000	2.00	6.207	5.90	65.3	0.0	268.4
114.00	1.00	1.30	10.105	11.12	207.11	0.950	0.000	2.00	6.121	5.82	64.6	0.0	264.6
116.00	1.00	1.31	10.142	11.16	204.57	0.950	0.000	2.00	6.036	5.73	64.0	0.0	260.9
118.00	1.00	1.31	10.179	11.20	202.01	0.950	0.000	2.00	5.950	5.65	63.3	0.0	257.2
120.00	1.00	1.32	10.215	11.24	199.44	0.950	0.000	2.00	5.864	5.57	62.6	0.0	253.4
122.00	1.00	1.32	10.250	11.28	196.85	0.950	0.000	2.00	5.779	5.49	61.9	0.0	249.7
124.00	1.00	1.32	10.286	11.31	194.24	0.950	0.000	2.00	5.693	5.41	61.2	0.0	246.0
126.00	1.00	1.33	10.320	11.35	191.62	0.950	0.000	2.00	5.608	5.33	60.5	0.0	242.2
128.00	1.00	1.33	10.355	11.39	188.99	0.950	0.000	2.00	5.522	5.25	59.8	0.0	238.5
130.00	1.00	1.34	10.388	11.43	186.34	0.950	0.000	2.00	5.437	5.16	59.0	0.0	234.8
132.00	1.00	1.34	10.422	11.46	183.68	0.950	0.000	2.00	5.351	5.08	58.3	0.0	231.0
133.33 Bot - Section 4	1.00	1.34	10.444	11.49	181.90	0.950	0.000	1.33	3.520	3.34	38.4	0.0	151.9
134.00	1.00	1.35	10.455	11.50	181.00	0.950	0.000	0.67	1.774	1.69	19.4	0.0	131.2
136.00	1.00	1.35	10.488	11.54	178.32	0.950	0.000	2.00	5.266	5.00	57.7	0.0	389.4
138.00 Top - Section 3	1.00	1.35	10.520	11.57	175.62	0.950	0.000	2.00	5.181	4.92	57.0	0.0	382.9
140.00 Appurtenance(s)	1.00	1.36	10.552	11.61	175.91	0.950	0.000	2.00	5.095	4.84	56.2	0.0	160.4
142.00	1.00	1.36	10.583	11.64	173.18	0.950	0.000	2.00	5.009	4.76	55.4	0.0	157.7
144.00	1.00	1.37	10.615	11.68	170.45	0.950	0.000	2.00	4.924	4.68	54.6	0.0	155.0
146.00	1.00	1.37	10.645	11.71	167.70	0.950	0.000	2.00	4.838	4.60	53.8	0.0	152.2
148.00	1.00	1.37	10.676	11.74	164.95	0.950	0.000	2.00	4.753	4.51	53.0	0.0	149.5
150.00 Appurtenance(s)	1.00	1.38	10.706	11.78	162.18	0.950	0.000	2.00	4.667	4.43	52.2	0.0	146.8
152.00	1.00	1.38	10.736	11.81	159.40	0.950	0.000	2.00	4.581	4.35	51.4	0.0	144.1
154.00	1.00	1.39	10.766	11.84	156.61	0.950	0.000	2.00	4.496	4.27	50.6	0.0	141.4
156.00	1.00	1.39	10.795	11.87	153.81	0.950	0.000	2.00	4.410	4.19	49.8	0.0	138.7
158.00 Appurtenance(s)	1.00	1.39	10.824	11.91	151.00	0.950	0.000	2.00	4.325	4.11	48.9	0.0	135.9
160.00 Appurtenance(s)	1.00	1.40	10.853	11.94	148.18	0.950	0.000	2.00	4.239	4.03	48.1	0.0	133.2
162.00	1.00	1.40	10.881	11.97	145.34	0.950	0.000	2.00	4.154	3.95	47.2	0.0	130.5
164.00	1.00	1.40	10.909	12.00	142.50	0.950	0.000	2.00	4.068	3.86	46.4	0.0	127.8
166.00 Appurtenance(s)	1.00	1.41	10.937	12.03	139.65	0.950	0.000	2.00	3.982	3.78	45.5	0.0	125.1
168.00	1.00	1.41	10.965	12.06	136.79	0.950	0.000	2.00	3.897	3.70	44.6	0.0	122.4
170.00	1.00	1.42	10.992	12.09	133.92	0.950	0.000	2.00	3.811	3.62	43.8	0.0	119.6
172.00	1.00	1.42	11.019	12.12	131.04	0.950	0.000	2.00	3.726	3.54	42.9	0.0	116.9
174.00	1.00	1.42	11.046	12.15	128.15	0.950	0.000	2.00	3.640	3.46	42.0	0.0	114.2
176.00	1.00	1.43	11.073	12.18	125.25	0.950	0.000	2.00	3.554	3.38	41.1	0.0	111.5
178.00 Appurtenance(s)	1.00	1.43	11.099	12.21	122.34	0.950	0.000	2.00	3.469	3.30	40.2	0.0	108.8
180.00	1.00	1.43	11.125	12.24	119.43	0.950	0.000	2.00	3.383	3.21	39.3	0.0	106.1
							Totals:	**180.00**			**5,894.3**		**33,413.9**

Discrete Appurtenance Forces

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 56	

Tower Engineering Solutions

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00

Iterations 27

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	178.00	JMA MX06FRO660-03	6	11.099	12.209	0.65	0.75	38.64	360.00	0.000	0.000	471.76	0.00	0.00
2	178.00	Raycap	1	11.099	12.209	0.67	0.75	1.74	32.00	0.000	0.000	21.27	0.00	0.00
3	178.00	Samsung B5/B13 RRH	3	11.099	12.209	0.38	0.75	2.11	210.90	0.000	0.000	25.82	0.00	0.00
4	178.00	Platform w/ Handrails w/	1	11.099	12.209	1.00	1.00	40.00	2202.20	0.000	0.000	488.35	0.00	0.00
5	178.00	Samsung VZS01	3	11.099	12.209	0.52	0.75	6.68	261.30	0.000	0.000	81.50	0.00	0.00
6	178.00	Samsung B2/B66A RRH	3	11.099	12.209	0.38	0.75	2.11	253.20	0.000	0.000	25.82	0.00	0.00
7	166.00	ALU 1900 Mhz	3	10.937	12.031	0.38	0.75	2.59	132.00	0.000	0.000	31.13	0.00	0.00
8	166.00	Platform w/ Hand Rails	1	10.937	12.031	1.00	1.00	40.00	2000.00	0.000	0.000	481.23	0.00	0.00
9	166.00	RFS APXVTM14-C-I20	3	10.937	12.031	0.58	0.75	10.98	168.60	0.000	0.000	132.15	0.00	0.00
10	166.00	Commscope	3	10.937	12.031	0.55	0.75	20.43	232.20	0.000	0.000	245.78	0.00	0.00
11	166.00	ALU TD-RRH8x20-25	3	10.937	12.031	0.38	0.75	4.56	210.00	0.000	0.000	54.82	0.00	0.00
12	166.00	ALU 800 Mhz	6	10.937	12.031	0.38	0.75	4.95	318.00	0.000	0.000	59.55	0.00	0.00
13	166.00	Sitepro	1	10.937	12.031	1.00	1.00	6.70	230.00	0.000	0.000	80.61	0.00	0.00
14	166.00	Sitepro	1	10.937	12.031	1.00	1.00	7.00	406.61	0.000	0.000	84.22	0.00	0.00
15	160.00	RR90-17-00VDPL2/-R	3	10.853	11.938	0.54	0.80	7.12	40.50	0.000	0.000	84.94	0.00	0.00
16	160.00	4449 B71+B12	3	10.853	11.938	0.40	0.80	1.98	210.00	0.000	0.000	23.64	0.00	0.00
17	160.00	KRY 112 144/2	3	10.853	11.938	0.40	0.80	0.49	46.20	0.000	0.000	5.87	0.00	0.00
18	160.00	KRY 112 489/2	3	10.853	11.938	0.40	0.80	0.78	46.20	0.000	0.000	9.31	0.00	0.00
19	160.00	APXVAARR24_43-U-NA2	3	10.853	11.938	0.56	0.80	34.00	384.00	0.000	0.000	405.93	0.00	0.00
20	158.00	V-Brace	1	10.824	11.906	0.75	0.75	4.72	197.00	0.000	0.000	56.26	0.00	0.00
21	158.00	T-Arm Kit	1	10.824	11.906	0.75	0.75	12.38	500.00	0.000	0.000	147.34	0.00	0.00
22	158.00	T-Arms	3	10.824	11.906	0.56	0.75	13.50	1050.00	0.000	0.000	160.73	0.00	0.00
23	150.00	DMP65R-BU6DA	2	10.706	11.777	0.54	0.75	13.73	158.80	0.000	0.000	161.66	0.00	0.00
24	150.00	Powerwave 7770	3	10.706	11.777	0.55	0.75	9.05	105.00	0.000	0.000	106.58	0.00	0.00
25	150.00	DMP65R-BU4DA	1	10.706	11.777	0.54	0.75	4.47	79.40	0.000	0.000	52.66	0.00	0.00
26	150.00	Powerwave LGP21401	6	10.706	11.777	0.38	0.75	1.84	84.60	0.000	0.000	21.73	0.00	0.00
27	150.00	B2 B66A 8843	3	10.706	11.777	0.38	0.75	1.84	210.00	0.000	0.000	21.73	0.00	0.00
28	150.00	Raycap DC6-48-60-18-8F	1	10.706	11.777	0.67	1.00	1.21	31.80	0.000	0.000	14.28	0.00	0.00
29	150.00	Platform w/ Hand Rail	1	10.706	11.777	1.00	1.00	35.00	1600.00	0.000	0.000	412.19	0.00	0.00
30	150.00	Cci HPA-65R-BUU-H6	2	10.706	11.777	0.64	0.75	12.32	102.00	0.000	0.000	145.05	0.00	0.00
31	150.00	SBNHH-1D65A	1	10.706	11.777	0.75	0.75	4.41	33.50	0.000	0.000	51.94	0.00	0.00
32	150.00	4449 B5/B12	3	10.706	11.777	0.38	0.75	1.86	213.00	0.000	0.000	21.86	0.00	0.00
33	140.00	Raycap	1	10.552	11.607	0.59	0.75	1.19	21.90	0.000	0.000	13.82	0.00	0.00
34	140.00	Fujitsu TA08025-B604	3	10.552	11.607	0.38	0.75	2.21	191.70	0.000	0.000	25.59	0.00	0.00
35	140.00	Fujitsu TA08025-B605	3	10.552	11.607	0.38	0.75	2.21	225.00	0.000	0.000	25.59	0.00	0.00
36	140.00	Sitepro1 SNP8HR-3XX	1	10.552	11.607	1.00	1.00	37.59	1876.00	0.000	0.000	436.30	0.00	0.00
37	140.00	JMA Wireless	3	10.552	11.607	0.55	0.75	20.80	193.50	0.000	0.000	241.38	0.00	0.00
							Totals:		**14,617.11**			**4,930.38**		

Total Applied Force Summary

Structure:	CT46130-A-SBA		**Code:**	EIA/TIA-222-H	5/21/2021
Site Name:	Deep River-winthrop Rd		**Exposure:**	C	
Height:	180.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 57

Tower Engineering Solutions

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00

Iterations 27

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
2.00		73.51	590.47	0.00	0.00
4.00		72.92	616.10	0.00	0.00
6.00		72.33	641.73	0.00	0.00
8.00		71.74	636.97	0.00	0.00
10.00		71.15	632.22	0.00	0.00
12.00		70.56	627.46	0.00	0.00
14.00		69.97	622.71	0.00	0.00
16.00		70.23	617.95	0.00	0.00
18.00		71.38	613.20	0.00	0.00
20.00		72.36	608.44	0.00	0.00
22.00		73.19	603.69	0.00	0.00
24.00		73.89	598.93	0.00	0.00
26.00		74.48	594.18	0.00	0.00
28.00		74.98	589.42	0.00	0.00
30.00		75.40	584.67	0.00	0.00
32.00		75.74	579.91	0.00	0.00
34.00		76.01	575.16	0.00	0.00
36.00		76.22	570.40	0.00	0.00
38.00		76.37	565.64	0.00	0.00
40.00		76.48	560.89	0.00	0.00
42.00		76.54	556.13	0.00	0.00
43.92		73.35	528.50	0.00	0.00
44.00		3.23	41.98	0.00	0.00
46.00		77.75	1002.84	0.00	0.00
48.00		77.69	993.67	0.00	0.00
50.00		77.60	984.50	0.00	0.00
51.00		38.68	488.81	0.00	0.00
52.00		38.64	252.63	0.00	0.00
54.00		77.33	501.96	0.00	0.00
56.00		77.14	497.54	0.00	0.00
58.00		76.93	493.12	0.00	0.00
60.00		76.69	488.71	0.00	0.00
62.00		76.43	484.29	0.00	0.00
64.00		76.14	479.88	0.00	0.00
66.00		75.83	475.46	0.00	0.00
68.00		75.50	471.05	0.00	0.00
70.00		75.14	466.63	0.00	0.00
72.00		74.77	462.22	0.00	0.00
74.00		74.38	457.80	0.00	0.00
76.00		73.97	453.38	0.00	0.00
78.00		73.54	448.97	0.00	0.00
80.00		73.09	444.55	0.00	0.00
82.00		72.63	440.14	0.00	0.00
84.00		72.15	435.72	0.00	0.00
86.00		71.66	431.31	0.00	0.00
88.00		71.15	426.89	0.00	0.00

Total Applied Force Summary

Structure:	CT46130-A-SBA		**Code:**	EIA/TIA-222-H	5/21/2021
Site Name:	Deep River-winthrop Rd		**Exposure:**	C	
Height:	180.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 58

Tower Engineering Solutions

90.00		70.63	422.47	0.00	0.00
90.17		5.85	35.01	0.00	0.00
92.00		65.32	663.18	0.00	0.00
94.00		70.74	715.65	0.00	0.00
96.00		70.19	707.50	0.00	0.00
98.00		69.62	357.94	0.00	0.00
100.00		69.03	354.20	0.00	0.00
102.00		68.44	350.46	0.00	0.00
104.00		67.83	346.73	0.00	0.00
106.00		67.22	342.99	0.00	0.00
108.00		66.59	339.25	0.00	0.00
110.00		65.95	335.52	0.00	0.00
112.00		65.30	331.78	0.00	0.00
114.00		64.64	328.05	0.00	0.00
116.00		63.97	324.31	0.00	0.00
118.00		63.29	320.57	0.00	0.00
120.00		62.60	316.84	0.00	0.00
122.00		61.90	313.10	0.00	0.00
124.00		61.19	309.36	0.00	0.00
126.00		60.48	305.63	0.00	0.00
128.00		59.75	301.89	0.00	0.00
130.00		59.02	298.16	0.00	0.00
132.00		58.28	294.42	0.00	0.00
133.33		38.41	194.20	0.00	0.00
134.00		19.39	152.36	0.00	0.00
136.00		57.71	452.78	0.00	0.00
138.00		56.95	446.33	0.00	0.00
140.00	(11) attachments	798.87	2731.90	0.00	0.00
142.00		55.40	219.08	0.00	0.00
144.00		54.62	216.36	0.00	0.00
146.00		53.82	213.64	0.00	0.00
148.00		53.02	210.93	0.00	0.00
150.00	(23) attachments	1061.88	2826.31	0.00	0.00
152.00		51.40	185.55	0.00	0.00
154.00		50.58	182.84	0.00	0.00
156.00		49.75	180.12	0.00	0.00
158.00	(5) attachments	413.25	1924.40	0.00	0.00
160.00	(15) attachments	577.77	901.58	0.00	0.00
162.00		47.23	144.93	0.00	0.00
164.00		46.37	142.21	0.00	0.00
166.00	(21) attachments	1214.99	3836.90	0.00	0.00
168.00		44.65	129.14	0.00	0.00
170.00		43.78	126.42	0.00	0.00
172.00		42.90	123.71	0.00	0.00
174.00		42.02	120.99	0.00	0.00
176.00		41.13	118.27	0.00	0.00
178.00	(17) attachments	1154.76	3435.16	0.00	0.00
180.00		39.33	108.68	0.00	0.00
	Totals:	**10,824.63**	**52,978.63**	**0.00**	**0.00**

Linear Appurtenance Segment Forces (Factored)

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 59	

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00

Iterations 27

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)
2.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.602	0.00	0.55
2.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.602	0.00	2.08
4.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.602	0.00	0.55
4.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.602	0.00	2.08
6.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.602	0.00	0.55
6.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.602	0.00	2.08
8.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.602	0.00	0.55
8.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.602	0.00	2.08
10.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.602	0.00	0.55
10.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.602	0.00	2.08
12.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.602	0.00	0.55
12.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.602	0.00	2.08
14.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.602	0.00	0.55
14.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.602	0.00	2.08
16.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.684	0.00	0.55
16.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.684	0.00	2.08
18.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.851	0.00	0.55
18.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	6.851	0.00	2.08
20.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.005	0.00	0.55
20.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.005	0.00	2.08
22.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.147	0.00	0.55
22.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.147	0.00	2.08
24.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.279	0.00	0.55
24.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.279	0.00	2.08
26.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.403	0.00	0.55
26.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.403	0.00	2.08
28.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.519	0.00	0.55
28.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.519	0.00	2.08
30.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.629	0.00	0.55
30.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.629	0.00	2.08
32.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.734	0.00	0.55
32.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.734	0.00	2.08
34.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.833	0.00	0.55
34.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.833	0.00	2.08
36.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.928	0.00	0.55
36.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.928	0.00	2.08
38.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.019	0.00	0.55
38.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.019	0.00	2.08
40.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.106	0.00	0.55
40.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.106	0.00	2.08
42.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.189	0.00	0.55
42.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.189	0.00	2.08
43.92	Safety Cable	Yes	1.92	0.000	0.00	0.00	0.00	0.000	0.000	8.267	0.00	0.52
43.92	Step bolts (ladder)	Yes	1.92	0.000	0.00	0.00	0.00	0.000	0.000	8.267	0.00	1.99
44.00	Safety Cable	Yes	0.08	0.000	0.00	0.00	0.00	0.000	0.000	8.270	0.00	0.02
44.00	Step bolts (ladder)	Yes	0.08	0.000	0.00	0.00	0.00	0.000	0.000	8.270	0.00	0.09
46.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.348	0.00	0.55

Linear Appurtenance Segment Forces (Factored)

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 60	

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00

Iterations 27

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)
46.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.348	0.00	2.08
48.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.423	0.00	0.55
48.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.423	0.00	2.08
50.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.495	0.00	0.55
50.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.495	0.00	2.08
51.00	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	8.531	0.00	0.27
51.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	8.531	0.00	1.04
52.00	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	8.566	0.00	0.27
52.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	8.566	0.00	1.04
54.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.634	0.00	0.55
54.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.634	0.00	2.08
56.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.701	0.00	0.55
56.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.701	0.00	2.08
58.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.765	0.00	0.55
58.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.765	0.00	2.08
60.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.828	0.00	0.55
60.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.828	0.00	2.08
62.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.889	0.00	0.55
62.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.889	0.00	2.08
64.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.949	0.00	0.55
64.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.949	0.00	2.08
66.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.007	0.00	0.55
66.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.007	0.00	2.08
68.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.064	0.00	0.55
68.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.064	0.00	2.08
70.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.119	0.00	0.55
70.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.119	0.00	2.08
72.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.173	0.00	0.55
72.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.173	0.00	2.08
74.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.226	0.00	0.55
74.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.226	0.00	2.08
76.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.278	0.00	0.55
76.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.278	0.00	2.08
78.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.329	0.00	0.55
78.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.329	0.00	2.08
80.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.379	0.00	0.55
80.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.379	0.00	2.08
82.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.428	0.00	0.55
82.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.428	0.00	2.08
84.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.476	0.00	0.55
84.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.476	0.00	2.08
86.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.523	0.00	0.55
86.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.523	0.00	2.08
88.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.569	0.00	0.55
88.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.569	0.00	2.08
90.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.615	0.00	0.55
90.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.615	0.00	2.08

Linear Appurtenance Segment Forces (Factored)

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 61	

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00

Iterations 27

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)
90.17	Safety Cable	Yes	0.17	0.000	0.00	0.00	0.00	0.000	0.000	9.618	0.00	0.05
90.17	Step bolts (ladder)	Yes	0.17	0.000	0.00	0.00	0.00	0.000	0.000	9.618	0.00	0.17
92.00	Safety Cable	Yes	1.83	0.000	0.00	0.00	0.00	0.000	0.000	9.659	0.00	0.50
92.00	Step bolts (ladder)	Yes	1.83	0.000	0.00	0.00	0.00	0.000	0.000	9.659	0.00	1.91
94.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.703	0.00	0.55
94.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.703	0.00	2.08
96.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.746	0.00	0.55
96.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.746	0.00	2.08
98.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.788	0.00	0.55
98.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.788	0.00	2.08
100.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.830	0.00	0.55
100.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.830	0.00	2.08
102.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.871	0.00	0.55
102.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.871	0.00	2.08
104.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.912	0.00	0.55
104.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.912	0.00	2.08
106.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.951	0.00	0.55
106.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.951	0.00	2.08
108.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.991	0.00	0.55
108.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	9.991	0.00	2.08
110.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.029	0.00	0.55
110.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.029	0.00	2.08
112.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.068	0.00	0.55
112.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.068	0.00	2.08
114.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.105	0.00	0.55
114.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.105	0.00	2.08
116.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.142	0.00	0.55
116.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.142	0.00	2.08
118.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.179	0.00	0.55
118.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.179	0.00	2.08
120.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.215	0.00	0.55
120.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.215	0.00	2.08
122.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.250	0.00	0.55
122.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.250	0.00	2.08
124.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.286	0.00	0.55
124.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.286	0.00	2.08
126.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.320	0.00	0.55
126.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.320	0.00	2.08
128.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.355	0.00	0.55
128.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.355	0.00	2.08
130.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.388	0.00	0.55
130.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.388	0.00	2.08
132.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.422	0.00	0.55
132.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.422	0.00	2.08
133.33	Safety Cable	Yes	1.33	0.000	0.00	0.00	0.00	0.000	0.000	10.444	0.00	0.36
133.33	Step bolts (ladder)	Yes	1.33	0.000	0.00	0.00	0.00	0.000	0.000	10.444	0.00	1.39
134.00	Safety Cable	Yes	0.67	0.000	0.00	0.00	0.00	0.000	0.000	10.455	0.00	0.18

Linear Appurtenance Segment Forces (Factored)

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 62	

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00

Iterations 27

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)
134.00	Step bolts (ladder)	Yes	0.67	0.000	0.00	0.00	0.00	0.000	0.000	10.455	0.00	0.69
136.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.488	0.00	0.55
136.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.488	0.00	2.08
138.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.520	0.00	0.55
138.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.520	0.00	2.08
140.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.552	0.00	0.55
140.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.552	0.00	2.08
142.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.583	0.00	0.55
142.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.583	0.00	2.08
144.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.615	0.00	0.55
144.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.615	0.00	2.08
146.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.645	0.00	0.55
146.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.645	0.00	2.08
148.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.676	0.00	0.55
148.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.676	0.00	2.08
150.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.706	0.00	0.55
150.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.706	0.00	2.08
152.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.736	0.00	0.55
152.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.736	0.00	2.08
154.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.766	0.00	0.55
154.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.766	0.00	2.08
156.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.795	0.00	0.55
156.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.795	0.00	2.08
158.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.824	0.00	0.55
158.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.824	0.00	2.08
160.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.853	0.00	0.55
160.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.853	0.00	2.08
162.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.881	0.00	0.55
162.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.881	0.00	2.08
164.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.909	0.00	0.55
164.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.909	0.00	2.08
166.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.937	0.00	0.55
166.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.937	0.00	2.08
168.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.965	0.00	0.55
168.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.965	0.00	2.08
170.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.992	0.00	0.55
170.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	10.992	0.00	2.08
172.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	11.019	0.00	0.55
172.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	11.019	0.00	2.08
174.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	11.046	0.00	0.55
174.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	11.046	0.00	2.08
176.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	11.073	0.00	0.55
176.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	11.073	0.00	2.08
178.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	11.099	0.00	0.55
178.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	11.099	0.00	2.08
180.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	11.125	0.00	0.55
180.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	11.125	0.00	2.08

Linear Appurtenance Segment Forces (Factored)

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 63	

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00

Iterations 27

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)
										Totals:	**0.0**	**236.3**

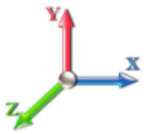
Calculated Forces

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 64	

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 27

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	-52.98	-10.83	0.00	-1341.0	0.00	1341.03	5123.29	1522.04	7808.40	6435.29	0.00	0.000	0.000	0.219
2.00	-52.38	-10.77	0.00	-1319.3	0.00	1319.37	5107.67	1509.78	7683.09	6363.61	0.00	-0.018	0.000	0.218
4.00	-51.76	-10.72	0.00	-1297.8	0.00	1297.82	5091.62	1497.52	7558.79	6291.73	0.02	-0.036	0.000	0.216
6.00	-51.12	-10.66	0.00	-1276.3	0.00	1276.38	5075.16	1485.26	7435.50	6219.67	0.03	-0.055	0.000	0.215
8.00	-50.48	-10.60	0.00	-1255.0	0.00	1255.06	5058.29	1472.99	7313.22	6147.44	0.06	-0.073	0.000	0.214
10.00	-49.84	-10.55	0.00	-1233.8	0.00	1233.85	5041.00	1460.73	7191.96	6075.05	0.10	-0.092	0.000	0.213
12.00	-49.21	-10.49	0.00	-1212.7	0.00	1212.76	5023.29	1448.47	7071.72	6002.51	0.14	-0.110	0.000	0.212
14.00	-48.59	-10.44	0.00	-1191.7	0.00	1191.77	5005.16	1436.20	6952.48	5929.84	0.19	-0.129	0.000	0.211
16.00	-47.96	-10.38	0.00	-1170.8	0.00	1170.89	4986.62	1423.94	6834.27	5857.05	0.25	-0.148	0.000	0.210
18.00	-47.35	-10.33	0.00	-1150.1	0.00	1150.13	4967.66	1411.68	6717.06	5784.16	0.31	-0.168	0.000	0.208
20.00	-46.74	-10.27	0.00	-1129.4	0.00	1129.48	4948.29	1399.42	6600.87	5711.17	0.39	-0.187	0.000	0.207
22.00	-46.13	-10.21	0.00	-1108.9	0.00	1108.94	4928.49	1387.15	6485.69	5638.10	0.47	-0.207	0.000	0.206
24.00	-45.53	-10.15	0.00	-1088.5	0.00	1088.53	4908.28	1374.89	6371.53	5564.95	0.56	-0.226	0.000	0.205
26.00	-44.93	-10.09	0.00	-1068.2	0.00	1068.23	4887.66	1362.63	6258.37	5491.76	0.66	-0.246	0.000	0.204
28.00	-44.34	-10.02	0.00	-1048.0	0.00	1048.06	4866.62	1350.36	6146.24	5418.52	0.77	-0.266	0.000	0.203
30.00	-43.75	-9.96	0.00	-1028.0	0.00	1028.01	4845.16	1338.10	6035.11	5345.24	0.88	-0.286	0.000	0.201
32.00	-43.17	-9.90	0.00	-1008.0	0.00	1008.09	4823.28	1325.84	5925.00	5271.95	1.01	-0.307	0.000	0.200
34.00	-42.59	-9.83	0.00	-988.30	0.00	988.30	4800.99	1313.58	5815.91	5198.66	1.14	-0.327	0.000	0.199
36.00	-42.01	-9.77	0.00	-968.63	0.00	968.63	4778.28	1301.31	5707.83	5125.37	1.28	-0.348	0.000	0.198
38.00	-41.45	-9.70	0.00	-949.09	0.00	949.09	4755.15	1289.05	5600.76	5052.10	1.43	-0.368	0.000	0.197
40.00	-40.88	-9.64	0.00	-929.68	0.00	929.68	4731.61	1276.79	5494.70	4978.87	1.59	-0.389	0.000	0.195
42.00	-40.32	-9.57	0.00	-910.40	0.00	910.40	4707.65	1264.52	5389.66	4905.68	1.76	-0.411	0.000	0.194
43.92	-39.79	-9.50	0.00	-892.05	0.00	892.05	4684.30	1252.77	5289.95	4835.60	1.93	-0.431	0.000	0.193
44.00	-39.75	-9.51	0.00	-891.26	0.00	891.26	4683.27	1252.26	5285.64	4832.55	1.94	-0.432	0.000	0.193
46.00	-38.74	-9.44	0.00	-872.25	0.00	872.25	4658.48	1240.00	5182.62	4759.49	2.12	-0.453	0.000	0.192
48.00	-37.75	-9.37	0.00	-853.37	0.00	853.37	4633.27	1227.74	5080.62	4686.52	2.32	-0.475	0.000	0.190
50.00	-36.76	-9.29	0.00	-834.64	0.00	834.64	4607.64	1215.47	4979.64	4613.64	2.52	-0.497	0.000	0.189
51.00	-36.27	-9.25	0.00	-825.35	0.00	825.35	4157.28	1142.33	4736.69	4216.21	2.63	-0.508	0.000	0.205
52.00	-36.02	-9.22	0.00	-816.10	0.00	816.10	4146.96	1136.64	4689.60	4184.61	2.73	-0.519	0.000	0.204
54.00	-35.51	-9.16	0.00	-797.65	0.00	797.65	4126.01	1125.25	4596.10	4121.41	2.96	-0.542	0.000	0.202
56.00	-35.01	-9.09	0.00	-779.34	0.00	779.34	4104.64	1113.86	4503.55	4058.23	3.19	-0.564	0.000	0.201
58.00	-34.51	-9.02	0.00	-761.16	0.00	761.16	4082.85	1102.48	4411.95	3995.08	3.43	-0.587	0.000	0.199
60.00	-34.02	-8.95	0.00	-743.12	0.00	743.12	4060.64	1091.09	4321.28	3931.97	3.68	-0.611	0.000	0.197
62.00	-33.54	-8.88	0.00	-725.22	0.00	725.22	4038.02	1079.70	4231.55	3868.91	3.94	-0.634	0.000	0.196
64.00	-33.05	-8.82	0.00	-707.45	0.00	707.45	4014.98	1068.31	4142.77	3805.92	4.21	-0.657	0.000	0.194
66.00	-32.57	-8.75	0.00	-689.81	0.00	689.81	3991.52	1056.93	4054.92	3743.01	4.49	-0.681	0.000	0.193
68.00	-32.10	-8.68	0.00	-672.32	0.00	672.32	3967.65	1045.54	3968.02	3680.19	4.78	-0.705	0.000	0.191
70.00	-31.63	-8.61	0.00	-654.96	0.00	654.96	3943.36	1034.15	3882.06	3617.47	5.08	-0.729	0.000	0.189
72.00	-31.17	-8.55	0.00	-637.73	0.00	637.73	3918.66	1022.77	3797.04	3554.87	5.40	-0.753	0.000	0.187
74.00	-30.71	-8.48	0.00	-620.64	0.00	620.64	3893.54	1011.38	3712.96	3492.40	5.72	-0.777	0.000	0.186
76.00	-30.25	-8.41	0.00	-603.68	0.00	603.68	3868.00	999.99	3629.83	3430.07	6.05	-0.801	0.000	0.184
78.00	-29.80	-8.34	0.00	-586.86	0.00	586.86	3842.04	988.61	3547.63	3367.90	6.39	-0.826	0.000	0.182
80.00	-29.35	-8.28	0.00	-570.18	0.00	570.18	3815.67	977.22	3466.38	3305.90	6.74	-0.851	0.000	0.180
82.00	-28.91	-8.21	0.00	-553.62	0.00	553.62	3788.88	965.83	3386.07	3244.07	7.10	-0.876	0.000	0.178
84.00	-28.47	-8.14	0.00	-537.20	0.00	537.20	3761.67	954.44	3306.69	3182.44	7.47	-0.901	0.000	0.176
86.00	-28.04	-8.08	0.00	-520.92	0.00	520.92	3734.05	943.06	3228.26	3121.02	7.86	-0.926	0.000	0.174
88.00	-27.61	-8.01	0.00	-504.76	0.00	504.76	3706.01	931.67	3150.77	3059.82	8.25	-0.951	0.000	0.172
90.00	-27.19	-7.94	0.00	-488.74	0.00	488.74	3677.55	920.28	3074.23	2998.84	8.65	-0.976	0.000	0.170

Calculated Forces

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 65	

90.17	-27.15	-7.94	0.00	-487.42	0.00	487.42	3675.16	919.33	3067.89	2993.77	8.69	-0.978	0.000	0.170
92.00	-26.48	-7.87	0.00	-472.86	0.00	472.86	3648.68	908.90	2998.62	2938.12	9.07	-1.002	0.000	0.168
94.00	-25.77	-7.80	0.00	-457.11	0.00	457.11	3619.39	897.51	2923.96	2877.64	9.49	-1.027	0.000	0.166
96.00	-25.06	-7.73	0.00	-441.51	0.00	441.51	2873.56	764.37	2506.37	2303.28	9.93	-1.053	0.000	0.201
98.00	-24.70	-7.67	0.00	-426.05	0.00	426.05	2853.66	754.73	2443.58	2258.25	10.38	-1.079	0.000	0.197
100.00	-24.34	-7.60	0.00	-410.71	0.00	410.71	2833.34	745.10	2381.59	2213.29	10.83	-1.107	0.000	0.194
102.00	-23.99	-7.54	0.00	-395.51	0.00	395.51	2812.61	735.46	2320.39	2168.43	11.30	-1.136	0.000	0.191
104.00	-23.64	-7.48	0.00	-380.43	0.00	380.43	2791.46	725.83	2259.99	2123.68	11.79	-1.165	0.000	0.188
106.00	-23.29	-7.41	0.00	-365.48	0.00	365.48	2769.89	716.19	2200.39	2079.04	12.28	-1.194	0.000	0.184
108.00	-22.95	-7.35	0.00	-350.65	0.00	350.65	2747.90	706.55	2141.58	2034.53	12.79	-1.222	0.000	0.181
110.00	-22.61	-7.29	0.00	-335.94	0.00	335.94	2725.50	696.92	2083.57	1990.17	13.30	-1.251	0.000	0.177
112.00	-22.28	-7.23	0.00	-321.36	0.00	321.36	2702.68	687.28	2026.36	1945.97	13.83	-1.280	0.000	0.173
114.00	-21.95	-7.17	0.00	-306.91	0.00	306.91	2679.45	677.65	1969.94	1901.93	14.38	-1.308	0.000	0.170
116.00	-21.62	-7.11	0.00	-292.57	0.00	292.57	2655.79	668.01	1914.32	1858.08	14.93	-1.337	0.000	0.166
118.00	-21.30	-7.05	0.00	-278.36	0.00	278.36	2631.73	658.38	1859.50	1814.42	15.50	-1.365	0.000	0.162
120.00	-20.98	-6.99	0.00	-264.27	0.00	264.27	2607.24	648.74	1805.47	1770.96	16.08	-1.393	0.000	0.157
122.00	-20.67	-6.93	0.00	-250.29	0.00	250.29	2582.34	639.11	1752.24	1727.73	16.67	-1.421	0.000	0.153
124.00	-20.36	-6.87	0.00	-236.44	0.00	236.44	2557.02	629.47	1699.80	1684.74	17.27	-1.448	0.000	0.148
126.00	-20.05	-6.81	0.00	-222.70	0.00	222.70	2531.28	619.84	1648.16	1641.98	17.88	-1.476	0.000	0.144
128.00	-19.75	-6.75	0.00	-209.09	0.00	209.09	2505.13	610.20	1597.32	1599.49	18.50	-1.502	0.000	0.139
130.00	-19.45	-6.69	0.00	-195.59	0.00	195.59	2478.56	600.57	1547.28	1557.27	19.14	-1.529	0.000	0.134
132.00	-19.15	-6.63	0.00	-182.20	0.00	182.20	2451.58	590.93	1498.03	1515.33	19.78	-1.554	0.000	0.128
133.33	-18.96	-6.59	0.00	-173.36	0.00	173.36	2433.35	584.51	1465.64	1487.53	20.22	-1.571	0.000	0.124
134.00	-18.80	-6.58	0.00	-168.96	0.00	168.96	2424.17	581.30	1449.58	1473.69	20.44	-1.580	0.000	0.123
136.00	-18.35	-6.51	0.00	-155.81	0.00	155.81	2396.35	571.66	1401.92	1432.35	21.11	-1.604	0.000	0.117
138.00	-17.90	-6.45	0.00	-142.78	0.00	142.78	1545.45	417.14	1026.36	929.77	21.79	-1.628	0.000	0.165
140.00	-15.19	-5.58	0.00	-129.88	0.00	129.88	1531.69	410.13	992.17	905.88	22.47	-1.650	0.000	0.153
142.00	-14.97	-5.53	0.00	-118.72	0.00	118.72	1517.50	403.12	958.56	882.03	23.17	-1.679	0.000	0.145
144.00	-14.75	-5.47	0.00	-107.66	0.00	107.66	1502.90	396.11	925.52	858.22	23.88	-1.706	0.000	0.135
146.00	-14.54	-5.42	0.00	-96.72	0.00	96.72	1487.88	389.11	893.06	834.49	24.60	-1.731	0.000	0.126
148.00	-14.33	-5.37	0.00	-85.88	0.00	85.88	1472.45	382.10	861.19	810.82	25.33	-1.755	0.000	0.116
150.00	-11.53	-4.22	0.00	-75.15	0.00	75.15	1456.60	375.09	829.89	787.25	26.07	-1.778	0.000	0.104
152.00	-11.35	-4.17	0.00	-66.71	0.00	66.71	1440.33	368.08	799.17	763.78	26.82	-1.799	0.000	0.095
154.00	-11.17	-4.12	0.00	-58.37	0.00	58.37	1423.65	361.08	769.03	740.42	27.58	-1.819	0.000	0.087
156.00	-10.99	-4.06	0.00	-50.14	0.00	50.14	1406.55	354.07	739.47	717.20	28.34	-1.837	0.000	0.078
158.00	-9.08	-3.59	0.00	-42.01	0.00	42.01	1389.03	347.06	710.49	694.11	29.12	-1.853	0.000	0.067
160.00	-8.19	-2.99	0.00	-34.83	0.00	34.83	1371.10	340.05	682.09	671.17	29.90	-1.867	0.000	0.058
162.00	-8.05	-2.94	0.00	-28.86	0.00	28.86	1352.75	333.05	654.27	648.41	30.68	-1.880	0.000	0.051
164.00	-7.91	-2.89	0.00	-22.99	0.00	22.99	1333.98	326.04	627.03	625.81	31.47	-1.891	0.000	0.043
166.00	-4.11	-1.55	0.00	-17.22	0.00	17.22	1314.79	319.03	600.37	603.42	32.26	-1.900	0.000	0.032
168.00	-3.99	-1.50	0.00	-14.13	0.00	14.13	1295.19	312.03	574.28	581.22	33.06	-1.907	0.000	0.027
170.00	-3.86	-1.45	0.00	-11.13	0.00	11.13	1275.17	305.02	548.78	559.24	33.86	-1.914	0.000	0.023
172.00	-3.74	-1.40	0.00	-8.23	0.00	8.23	1251.65	298.01	523.85	536.17	34.67	-1.919	0.000	0.018
174.00	-3.62	-1.36	0.00	-5.43	0.00	5.43	1222.21	291.00	499.51	511.11	35.47	-1.923	0.000	0.014
176.00	-3.50	-1.31	0.00	-2.71	0.00	2.71	1192.78	284.00	475.74	486.64	36.28	-1.926	0.000	0.009
178.00	-0.11	-0.04	0.00	-0.09	0.00	0.09	1163.35	276.99	452.55	462.78	37.08	-1.927	0.000	0.000
180.00	0.00	-0.04	0.00	0.00	0.00	0.00	1133.92	269.98	429.95	439.52	37.89	-1.927	0.000	0.000

Final Analysis Summary

Structure:	CT46130-A-SBA	**Code:**	EIA/TIA-222-H	5/21/2021	
Site Name:	Deep River-winthrop Rd	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 66	

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 + 1.0W 123 mph Wind	50.9	0.00	63.53	0.00	0.00	6341.85
0.9D + 1.0W 123 mph Wind	50.9	0.00	47.64	0.00	0.00	6250.37
1.2D + 1.0Di + 1.0Wi 50 mph Wind	11.2	0.00	85.49	0.00	0.00	1438.44
1.2D + 1.0Ev + 1.0Eh	0.8	0.00	65.99	0.00	0.00	132.76
0.9D + 1.0Ev + 1.0Eh	0.8	0.00	50.03	0.00	0.00	130.86
1.0D + 1.0W 60 mph Wind	10.8	0.00	52.98	0.00	0.00	1341.03

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 + 1.0W 123 mph Wind	-63.53	-50.89	0.00	-6341.8	0.00	-6341.8	5123.29	1522.0	7808.40	6435.29	0.00	0.999
0.9D + 1.0W 123 mph Wind	-47.64	-50.88	0.00	-6250.3	0.00	-6250.3	5123.29	1522.0	7808.40	6435.29	0.00	0.982
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-85.49	-11.16	0.00	-1438.4	0.00	-1438.4	5123.29	1522.0	7808.40	6435.29	0.00	0.240
1.2D + 1.0Ev + 1.0Eh	-22.51	-0.81	0.00	-20.44	0.00	-20.44	1545.45	417.14	1026.36	929.77	138.00	0.037
0.9D + 1.0Ev + 1.0Eh	-17.08	-0.79	0.00	-20.11	0.00	-20.11	1545.45	417.14	1026.36	929.77	138.00	0.033
1.0D + 1.0W 60 mph Wind	-52.98	-10.83	0.00	-1341.0	0.00	-1341.0	5123.29	1522.0	7808.40	6435.29	0.00	0.219

Base Plate Summary

Structure:	CT46130-A-SB		**Code:**	EIA/TIA-222-H	5/21/2021
Site Name:	Deep River-winthrop Rd		**Exposure:**	C	
Height:	180.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 67

Tower Engineering Solutions

Reactions

Original Design

Moment (kip-ft):	5076.00
Axial (kip):	59.10
Shear (kip):	41.70

Analysis (1.2D + 1.0W)

Moment (kip-ft):	6341.85
Axial (kip):	63.53
Shear (kip):	50.89

Base Plate

Yield (ksi):	60.00
Width (in):	76.69
Style:	Polygon
Polygon Sides:	12.00
Clip Length (in):	0.00
Effective Len (in):	14.14
Moment (kip-in):	954.11
Allow Stress (ksi):	81.00
Applied Stress (ksi):	53.46
Stress Ratio:	0.66

Anchor Bolts

Bolt Circle:	70.69
Number Bolts:	20.00
Bolt Type:	2.25" 18J
Bolt Diameter (in):	2.25
Yield (ksi):	75.00
Ultimate (ksi):	100.00
Arrangement:	Radial
Cluster Dist (in):	0.00
Start Angle (deg):	0.00

Compression

Force (kip):	219.59
Allowable (kip):	268.39
Ratio:	0.82

Tension

Force (kip):	211.04
Allowable (kip):	243.75
Ratio:	0.87

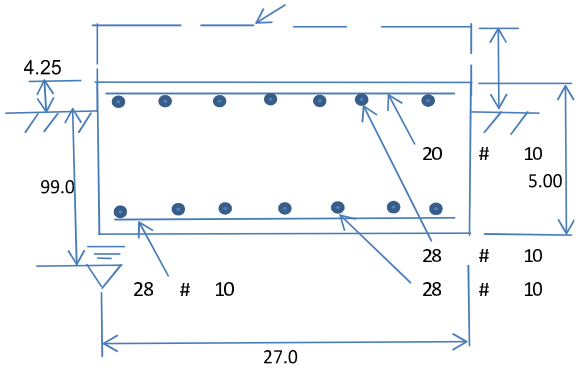
Monopole Mat Foundation Design

			Date: 5/6/2021
Customer Name:	SBA Communcations Corp	**EIA/TIA Standard:**	EIA-222-H
Site Name:	Deep River-winthrop Rd	**Structure Height (Ft.):**	180
Site Number:	CT46130-A-SBA	**Engineer Name:**	T. Alajaj
Engr. Number:	106850	**Manager Login Req'd:**	

Foundation Info Obtained from: Drawings/Calculations

Structure Type: Monopole

Analysis or Design? Analysis

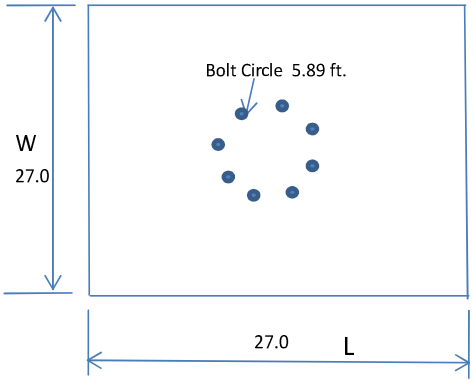


Base Reactions (Factored):

Axial Load (Kips):	63.5	Shear Force (Kips):	50.9
Uplift Force (Kips):	0.0	Moment (Kips-ft):	6341.9
Allowable overstress %:	5.0%		

Foundation Geometries:

		Mods required -Yes/No ?:	No
Anchor Bolt Circle (ft.):	5.89	Depth of Base BG (ft.):	0.75
Thickness of Pad (ft):	5.00		
Length of Pad (ft.):	27	Width of Pad (ft.):	27
Final Length of pad (ft)	27.0	Final width of pad (ft):	27.0



Material Properties and Reabr Info:

Concrete Strength (psi):	4000	Steel Elastic Modulus:	29000	ksi
Pad Rebar Yield (Ksi):	60	Tie Spacing (in):	12.0	
Pad Steel Rebar Size (#):	10			
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):	20	Qty. of Rebar in Pad (W):	20	
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:

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):	120000	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.):	0.00	Total Dry Soil Weight (Kips):	0.00
Total Buoyant Soil Volume (cu. Ft.):	0.00	Total Buoyant Soil Weight (Kips):	0.00
Total Effective Soil Weight (Kips):	0.00	Weight from the Concrete Block at Top (K):	0.00
Total Dry Concrete Volume (cu. Ft.):	3645.00	Total Dry Concrete Weight (Kips):	546.75
Total Buoyant Concrete Volume (cu. Ft.):	0.00	Total Buoyant Concrete Weight (Kips):	0.00
Total Effective Concrete Weight (Kips):	546.75	Total Vertical Load on Base (Kips):	610.25

Check Soil Capacities:

					Load/ Capacity Ratio	
Calculated Maxium Net Soil Pressure under the base (psf):	4598	<	Allowable Factored Soil Bearing (psf):	90000	0.05	OK!
Allowable Foundation Overturning Resistance (kips-ft.):	7500.3	>	Design Factored Momont (kips-ft):	6599	0.88	OK!
Factor of Safety Against Overturning (O. R. Moment/Design Moment):	1.14	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		

Concrete Pad:

One-Way Design Shear Capacity (L-Direction, Kips):	1732.8	>	One-Way Factored Shear (L-D. Kips):	392.3	0.23	OK!
One-Way Design Shear Capacity (W-Direction, Kips):	1732.8	>	One-Way Factored Shear (W-D., Kips)	392.3	0.23	OK!
One-Way Design Shear Capacity (Corner-Corner. Kips):	2040.5	>	One-Way Factored Shear (C-C, Kips):	875.9	0.43	OK!
Lower Steel Pad Reinforcement Ratio (L-Direct.):	0.0014	OK!	Lower Steel Pad Reinf. Ratio (W-Direc	0.0014		
Lower Steel Pad Moment Capacity (L-Direction. Kips-ft):	6364.6	>	Moment at Bottom (L-Direct. K-Ft):	1099.9	0.17	OK!
Lower Steel Pad Moment Capacity (W-Direction. Kips-ft):	6364.6	>	Moment at Bottom (W-Direct. K-Ft):	1099.9	0.17	OK!
Lower Steel Pad Moment Capacity (Corner-Corner,K-ft):	8978.4	>	Moment at Bottom (C-C Dir. K-Ft):	1555.5	0.17	OK!
Upper Steel Pad Reinforcement Ratio (L-Direct.):	0.0019	OK!	Upper Steel Reinf. Ratio (W-Direct.):	0.0019		
Upper Steel Pad Moment Capacity (L-Direction. Kips-ft):	8866.2	>	Moment at the top (L-Dir Kips-Ft):	54.9	0.01	OK!
Upper Steel Pad Moment Capacity (W-Direction. Kips-ft):	8866.2	>	Moment at the top (W-Dir Kips-Ft):	54.9	0.01	OK!
Upper Steel Pad Moment Capacity (Corner-Corner. K-ft):	12494.6	>	Moment at the top (C-C Direc. K-Ft):	883.9	0.07	OK!

Tower Engineering Solutions, LLC

June 14, 2021

Mr. Andrew Leone
Verizon Wireless
20 Alexander Dr.
Wallingford, CT 06492

Re: Verizon Wireless antenna Model Clarification for CT Siting Council

Dear Mr. Leone,

This letter is intended to clarify and confirm the antenna naming convention used by Verizon Wireless as a part of an antenna upgrade project on numerous wireless facilities.

The antenna naming convention "Licensed Sub-6, L-Sub6, nL-Sub6, VZS01" and any other slight variants refer to the 64T64RMMU, Model Code: MT6407-77A manufactured by Samsung Electronics. These names are interchangeable and are used in various documents, including but not limited to the "Structural Analysis".

If you have any questions or comments, or require additional information, please do not hesitate to contact me.

Sincerely,
Tower Engineering Solutions, LLC

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

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

Antenna Mount Analysis Report and PMI Requirements

Mount Analysis

SMART Tool Project #: 10045197
Maser Consulting Connecticut Project #: 21777296A

May 27, 2021

Site Information	*Site ID:*	*467805-VZW / DEEP RIVER WEST CT*
	Site Name:	*DEEP RIVER WEST CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*220 Winthrop Rd* *Deep River, Connecticut 06417* *Middlesex County*
	Latitude:	*41.365772°*
	Longitude:	*-72.475314°*
Structure Information	*Tower Type:*	*180-Ft Monopole*
	Mount Type:	*12.50-Ft Platform*

FUZE ID # 16272117

Analysis Results

Platform: **60.8% Pass**

Digitally signed by Taqi Khawaja-Ghulam
Date: 2021.05.28 10:29:15-04'00'

******Contractor PMI Requirements*:**
Included at the end of this MA report
Available & Submitted via portal at https://pmi.vzwsmart.com
Contractor - Please Review Specific Site PMI Requirements Upon Award
Requirements also Noted on Mount Modification Drawings
Requirements may also be Noted on A & E drawings

Report Prepared By: Andy Hanes

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: 1989264, dated February 25, 2021*
Mount Mapping Report	*Roaming Networks Inc., Site ID: CT43160, dated April 26, 2021*
Previous Construction Drawings	*On Air Engineering, LLC, Site Name: DEEP RIVER WEST CT, dated February 20, 2020*
Previous Mount Replacement Analysis	*Paul J. Ford & Company, Project #: A42919-0016.003.7190, dated January 27, 2020*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}:	123 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.00 in
	Risk Category:	II
	Exposure Category:	C
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	0.991
Seismic Parameters:	S_S:	0.210
	S_1:	0.054
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
176.00	178.00	3	Samsung	MT6407-77A	Added
		6	JMA Wireless	MX06FRO660-03	
		1	Raycap	RRFDC-6627-PF-48	Retained
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	

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

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 and field observations. Any deviation from the loading locations specified in this report shall be communicated to Maser Consulting Connecticut to verify deviation will not adversely impact the analysis.

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

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

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

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

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

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

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

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

8. It is assumed that the mount replacement listed under Sources of Information have been installed per the design specifications.

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

Analysis Results:

Component	Utilization %	Pass/Fail
Connection	12.5 %	Pass
Standoff	18.9 %	Pass
Platform Crossmember	11.7 %	Pass
Corner Plate	24.0 %	Pass
Grating Support	15.3 %	Pass
Cross Arm Plate	38.3 %	Pass
Face Horizontal	16.0 %	Pass
Support Rail	51.1 %	Pass
Support Rail Connection	60.8 %	Pass
Mount Pipe	48.0 %	Pass
Kicker	9.7 %	Pass

Structure Rating – *(Controlling Utilization of all Components)*	**60.8%**

Recommendation:

The existing mount is **SUFFICIENT** for the final loading configuration and do not require modifications.

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

Attachments:

1. Mount Photos
2. Mount Specification
3. Mount Geometry Verification Requirements
4. Analysis Calculations
5. **Contractor Required Post Installation Inspection (PMI) Report Deliverables**
6. Antenna Placement Diagrams
7. TIA Adoption and Wind Speed Usage Letter


04/24/2021 10:51:44
DEEP RIVER WEST CT


04/24/2021 12:07:13
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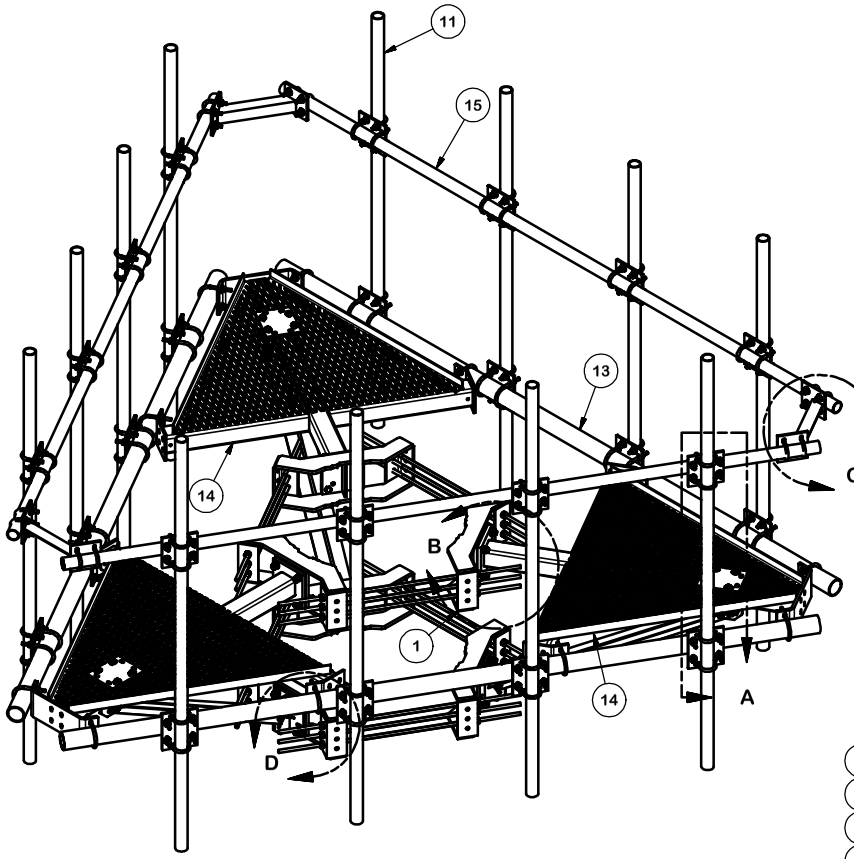
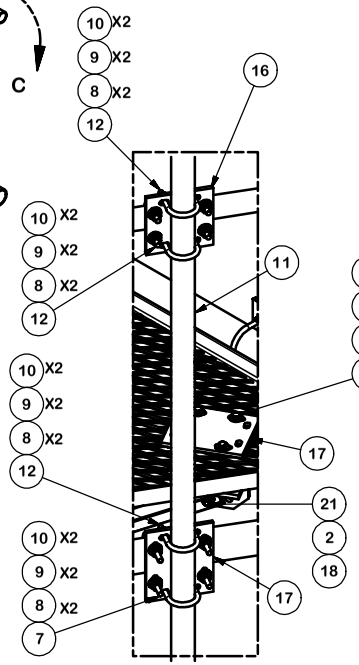
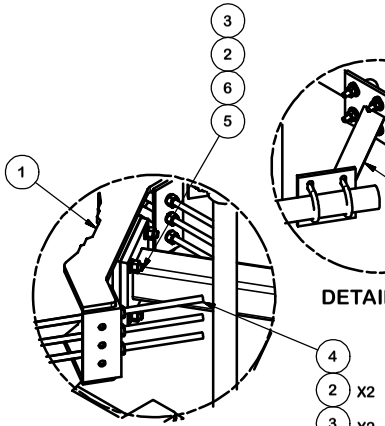
DEEP RIVER WEST CT

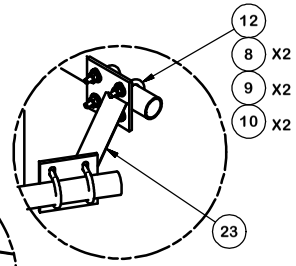




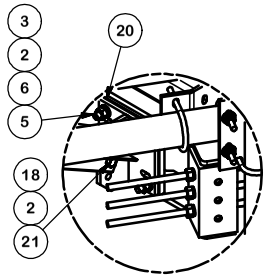
DETAIL A



DETAIL B



DETAIL C



DETAIL D

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	6	X-LWRM	RING MOUNT WELDMENT		68.81	412.85
2	66	G58LW	5/8" HDG LOCKWASHER		0.03	1.72
3	60	A58NUT	5/8" HDG A325 HEX NUT		0.13	7.79
4	18	G58R-24	5/8" x 24" THREADED ROD (HDG.)		2.09	37.63
4	18	G58R-48	5/8" x 48" THREADED ROD (HDG.)		4.18	75.27
5	24	A58234	5/8" x 2-3/4" HDG A325 HEX BOLT	2 3/4 in	0.36	8.54
6	24	A58FW	5/8" HDG A325 FLATWASHER		0.03	0.82
7	36	X-UB1306	1/2" X 3-5/8" X 6" X 3" U-BOLT (HDG.)		0.83	29.82
8	264	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	9.00
9	252	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	3.50
10	252	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	18.05
11	12	P296	2-3/8" X 96" SCH. 40 GALVANIZED PIPE	96 in	30.76	369.08
12	84	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.60	50.17
13	3	P3150	3-1/2" X 150" (3" SCH 40) GALVANIZED PIPE	150 in	94.80	284.40
14	3	X-SV196	LOW PROFILE PLATFORM CORNER		212.10	636.31
15	3	P2150	2-3/8" O.D. X 150" SCH 40 GALVANIZED PIPE	150 in	45.77	137.31
16	12	SCX2	CROSSOVER PLATE	7 in	4.80	57.56
17	15	SCX4	CROSSOVER PLATE	8 1/2 in	6.02	90.32
18	6	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	0.78
19	6	X-253993	PLATFORM REINFORCEMENT KIT ANGLE	52 25/32 in	14.33	85.99
20	6	X-TBW	T-BRACKET WELDMENT		13.60	81.60
21	6	G5802	5/8" x 2" HDG HEX BOLT GR5		0.27	1.62
22	12	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	5 1/2 in	0.41	4.91
23	3	X-AHCP	ANGLE HANDRAIL CORNER PLATE		12.92	38.76
					TOTAL WT. #	2445.81

TOLERANCE NOTES

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

DESCRIPTION
12' 6" LOW PROFILE PLATFORM
WITH TWELVE 2-3/8" ANTENNA MOUTING
PIPES, AND HANDRAIL

SITE PRO 1 — A valmont COMPANY

Engineering Support Team: 1-888-753-7446

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

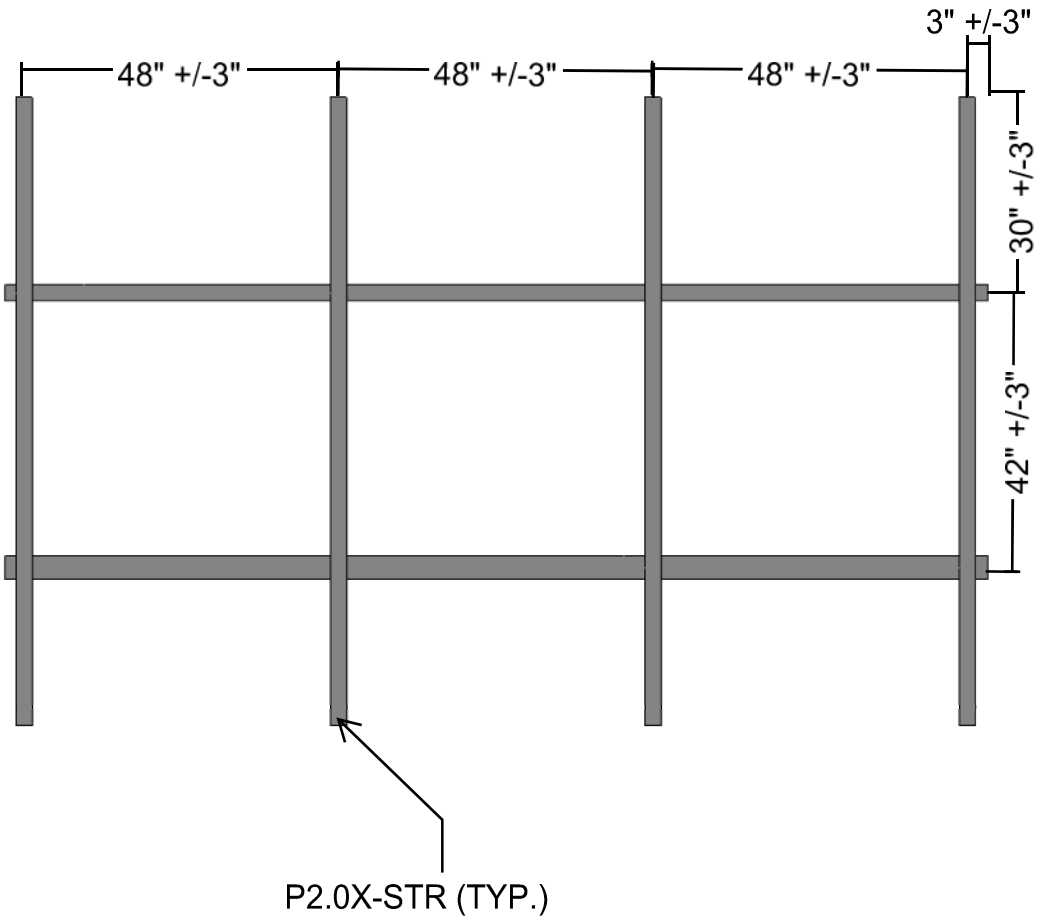
REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
A	CHANGED X-253992 TO X-TBW	4488	CEK	9/20/2018

REVISION HISTORY

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.
4488	CEK 7/14/2014		RMQP-496-HK

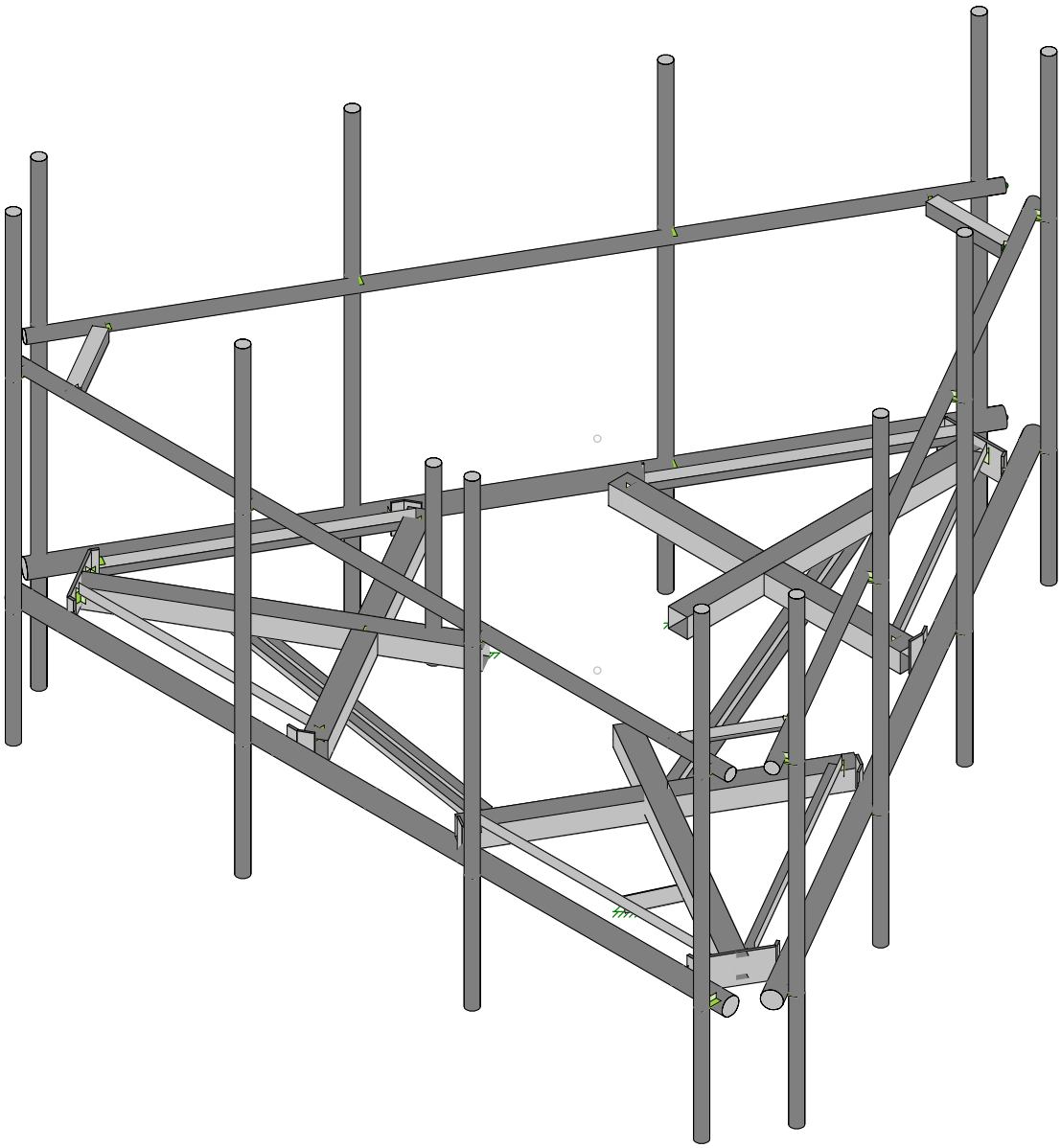
CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
81	02	CUSTOMER	BMC 7/14/2014	RMQP-496-HK

FRONT ELEVATION VIEW



MOUNT GEOMETRY VERIFICATION

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND MEMBER SIZES SHOWN IN THIS SKETCH. DOCUMENT ALL VARIATIONS OR DEVIATIONS VIA PHOTOS AND SKETCHES AND PROVIDE TO THE EOR FOR EVALUATION



Envelope Only Solution

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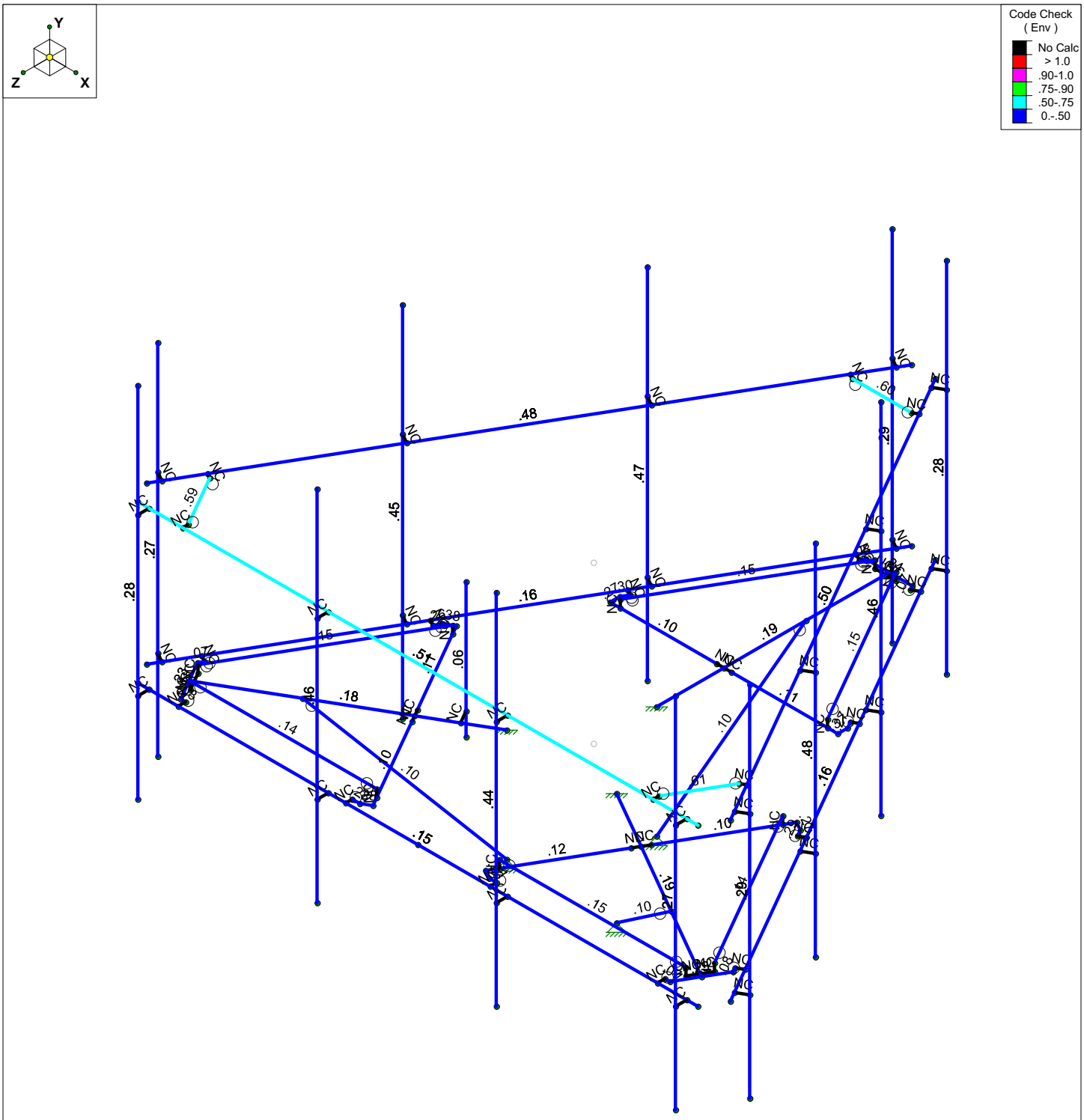

Member Code Checks Displayed (Enveloped)
Envelope Only Solution

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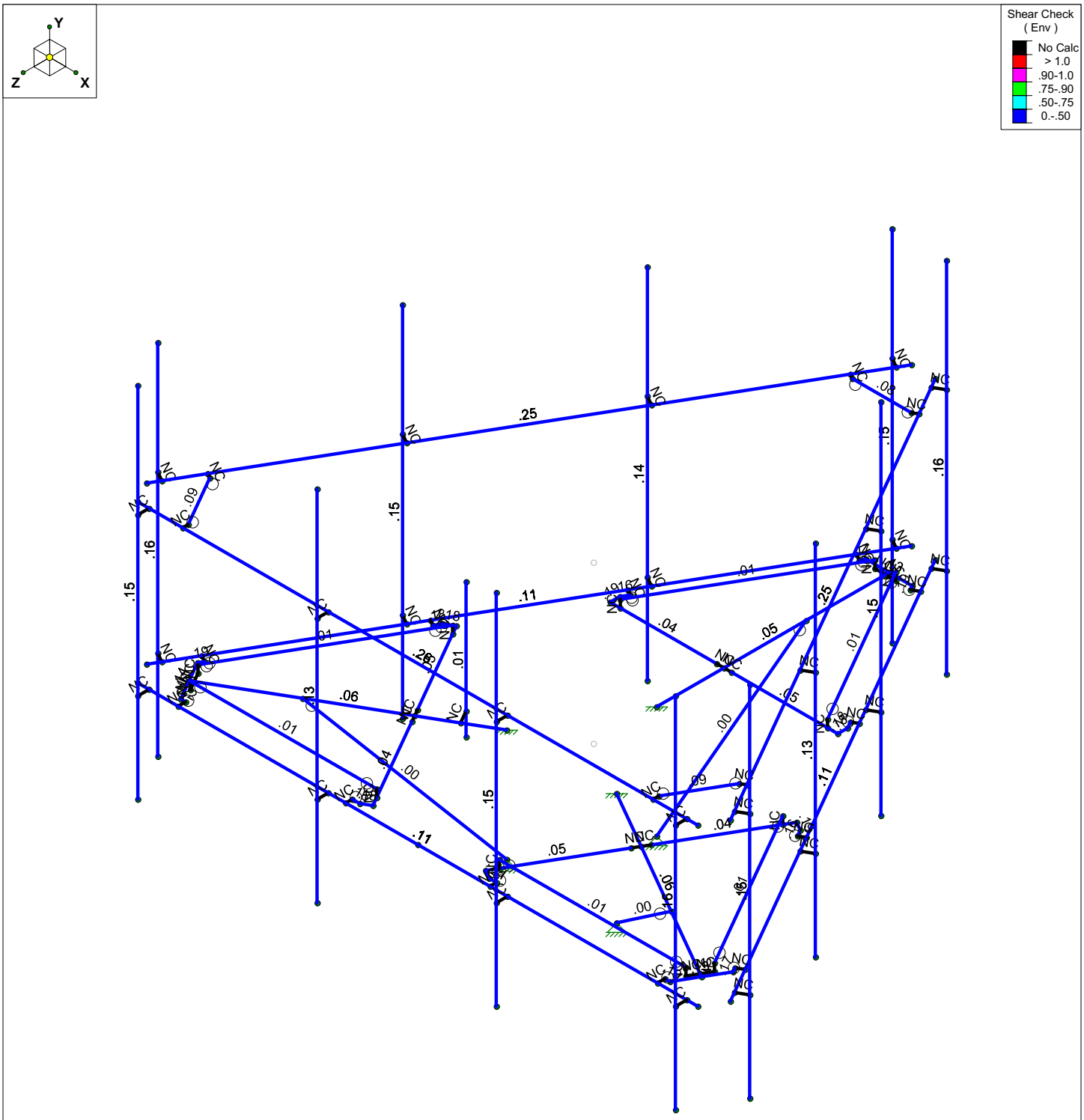

Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

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Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
1	Antenna D	None					75			
2	Antenna Di	None					75			
3	Antenna Wo (0 Deg)	None					75			
4	Antenna Wo (30 Deg)	None					75			
5	Antenna Wo (60 Deg)	None					75			
6	Antenna Wo (90 Deg)	None					75			
7	Antenna Wo (120 Deg)	None					75			
8	Antenna Wo (150 Deg)	None					75			
9	Antenna Wo (180 Deg)	None					75			
10	Antenna Wo (210 Deg)	None					75			
11	Antenna Wo (240 Deg)	None					75			
12	Antenna Wo (270 Deg)	None					75			
13	Antenna Wo (300 Deg)	None					75			
14	Antenna Wo (330 Deg)	None					75			
15	Antenna Wi (0 Deg)	None					75			
16	Antenna Wi (30 Deg)	None					75			
17	Antenna Wi (60 Deg)	None					75			
18	Antenna Wi (90 Deg)	None					75			
19	Antenna Wi (120 Deg)	None					75			
20	Antenna Wi (150 Deg)	None					75			
21	Antenna Wi (180 Deg)	None					75			
22	Antenna Wi (210 Deg)	None					75			
23	Antenna Wi (240 Deg)	None					75			
24	Antenna Wi (270 Deg)	None					75			
25	Antenna Wi (300 Deg)	None					75			
26	Antenna Wi (330 Deg)	None					75			
27	Antenna Wm (0 Deg)	None					75			
28	Antenna Wm (30 Deg)	None					75			
29	Antenna Wm (60 Deg)	None					75			
30	Antenna Wm (90 Deg)	None					75			
31	Antenna Wm (120 Deg)	None					75			
32	Antenna Wm (150 Deg)	None					75			
33	Antenna Wm (180 Deg)	None					75			
34	Antenna Wm (210 Deg)	None					75			
35	Antenna Wm (240 Deg)	None					75			
36	Antenna Wm (270 Deg)	None					75			
37	Antenna Wm (300 Deg)	None					75			
38	Antenna Wm (330 Deg)	None					75			
39	Structure D	None		-1					3	
40	Structure Di	None						61	3	
41	Structure Wo (0 Deg)	None						122		
42	Structure Wo (30 Deg)	None						122		
43	Structure Wo (60 Deg)	None						122		
44	Structure Wo (90 Deg)	None						122		
45	Structure Wo (120 D...	None						122		
46	Structure Wo (150 D...	None						122		
47	Structure Wo (180 D...	None						122		
48	Structure Wo (210 D...	None						122		
49	Structure Wo (240 D...	None						122		
50	Structure Wo (270 D...	None						122		
51	Structure Wo (300 D...	None						122		
52	Structure Wo (330 D...	None						122		
53	Structure Wi (0 Deg)	None						122		
54	Structure Wi (30 Deg)	None						122		
55	Structure Wi (60 Deg)	None						122		
56	Structure Wi (90 Deg)	None						122		

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						122		
58	Structure Wi (150 De...	None						122		
59	Structure Wi (180 De...	None						122		
60	Structure Wi (210 De...	None						122		
61	Structure Wi (240 De...	None						122		
62	Structure Wi (270 De...	None						122		
63	Structure Wi (300 De...	None						122		
64	Structure Wi (330 De...	None						122		
65	Structure Wm (0 Deg)	None						122		
66	Structure Wm (30 De...	None						122		
67	Structure Wm (60 De...	None						122		
68	Structure Wm (90 De...	None						122		
69	Structure Wm (120 D...	None						122		
70	Structure Wm (150 D...	None						122		
71	Structure Wm (180 D...	None						122		
72	Structure Wm (210 D...	None						122		
73	Structure Wm (240 D...	None						122		
74	Structure Wm (270 D...	None						122		
75	Structure Wm (300 D...	None						122		
76	Structure Wm (330 D...	None						122		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	BLC 39 Transient Are...	None						30		
82	BLC 40 Transient Are...	None						30		

Load Combinations

	Description	Sol...	P...	S...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...
1	1.2D+1.0Wo (0 D...	Yes	Y		1	1.2	39	1.2	3	1	41	1												
2	1.2D+1.0Wo (30 ...	Yes	Y		1	1.2	39	1.2	4	1	42	1												
3	1.2D+1.0Wo (60 ...	Yes	Y		1	1.2	39	1.2	5	1	43	1												
4	1.2D+1.0Wo (90 ...	Yes	Y		1	1.2	39	1.2	6	1	44	1												
5	1.2D+1.0Wo (12...	Yes	Y		1	1.2	39	1.2	7	1	45	1												
6	1.2D+1.0Wo (15...	Yes	Y		1	1.2	39	1.2	8	1	46	1												
7	1.2D+1.0Wo (18...	Yes	Y		1	1.2	39	1.2	9	1	47	1												
8	1.2D+1.0Wo (21...	Yes	Y		1	1.2	39	1.2	10	1	48	1												
9	1.2D+1.0Wo (24...	Yes	Y		1	1.2	39	1.2	11	1	49	1												
10	1.2D+1.0Wo (27...	Yes	Y		1	1.2	39	1.2	12	1	50	1												
11	1.2D+1.0Wo (30...	Yes	Y		1	1.2	39	1.2	13	1	51	1												
12	1.2D+1.0Wo (33...	Yes	Y		1	1.2	39	1.2	14	1	52	1												
13	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1								
14	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1								
15	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1								
16	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1								
17	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1								
18	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1								
19	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1								
20	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1								
21	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1								
22	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1								
23	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1								
24	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1								
25	1.2D + 1.5Lm1 + ...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1										
26	1.2D + 1.5Lm1 + ...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1										

Load Combinations (Continued)

	Description	Sol...	P...	S...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...
27	1.2D + 1.5Lm1 + ...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1										
28	1.2D + 1.5Lm1 + ...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1										
29	1.2D + 1.5Lm1 + ...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1										
30	1.2D + 1.5Lm1 + ...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1										
31	1.2D + 1.5Lm1 + ...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1										
32	1.2D + 1.5Lm1 + ...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1										
33	1.2D + 1.5Lm1 + ...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1										
34	1.2D + 1.5Lm1 + ...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1										
35	1.2D + 1.5Lm1 + ...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1										
36	1.2D + 1.5Lm1 + ...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1										
37	1.2D + 1.5Lm2 + ...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1										
38	1.2D + 1.5Lm2 + ...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1										
39	1.2D + 1.5Lm2 + ...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1										
40	1.2D + 1.5Lm2 + ...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1										
41	1.2D + 1.5Lm2 + ...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1										
42	1.2D + 1.5Lm2 + ...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1										
43	1.2D + 1.5Lm2 + ...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1										
44	1.2D + 1.5Lm2 + ...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1										
45	1.2D + 1.5Lm2 + ...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1										
46	1.2D + 1.5Lm2 + ...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1										
47	1.2D + 1.5Lm2 + ...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1										
48	1.2D + 1.5Lm2 + ...	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1										
49	1.2D + 1.5Lv1	Yes	Y		1	1.2	39	1.2	79	1.5														
50	1.2D + 1.5Lv2	Yes	Y		1	1.2	39	1.2	80	1.5														
51	1.4D	Yes	Y		1	1.4	39	1.4																
52	Seismic Mass		Y		1	1	39	1																
53	1.2D + 1.0Ev + 1....		Y		1	1.2	39	1.2	SX		SY	1	SZ	-1										
54	1.2D + 1.0Ev + 1....		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	-.866										
55	1.2D + 1.0Ev + 1....		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	-.5										
56	1.2D + 1.0Ev + 1....		Y		1	1.2	39	1.2	SX	1	SY	1	SZ											
57	1.2D + 1.0Ev + 1....		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	.5										
58	1.2D + 1.0Ev + 1....		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	.866										
59	1.2D + 1.0Ev + 1....		Y		1	1.2	39	1.2	SX		SY	1	SZ	1										
60	1.2D + 1.0Ev + 1....		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	.866										
61	1.2D + 1.0Ev + 1....		Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	.5										
62	1.2D + 1.0Ev + 1....		Y		1	1.2	39	1.2	SX	-1	SY	1	SZ											
63	1.2D + 1.0Ev + 1....		Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	-.5										
64	1.2D + 1.0Ev + 1....		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	-.866										

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N3	-0.	0	-1.416667	0	
2	N5	-2.541667	0	-2.916667	0	
3	N6	2.315104	0.166667	-2.916667	0	
4	N7	-2.315104	0.166667	-2.916667	0	
5	N24	-0.	0	-2.916667	0	
6	N27	-0.	0	-6.604167	0	
7	CP	0	0	0	0	
8	N29	2.315104	0	-2.916667	0	
9	N30	-2.315104	0	-2.916667	0	
10	N101	2.541667	0	-2.916667	0	
11	N102	-0.166667	0	-2.916667	0	
12	N103A	0.166667	0	-2.916667	0	
13	N104A	-2.541667	0	-3.135417	0	
14	N105	2.541667	0	-3.135417	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
15	N131	2.458333	0	-3.279754	0	
16	N135	0.571615	0	-6.50719	0	
17	N144	-2.458333	0	-3.279754	0	
18	N148	-0.571615	0	-6.50719	0	
19	N86A	2.584629	0	-3.352671	0	
20	N86B	-2.584629	0	-3.352671	0	
21	N86C	-0.515625	0	-6.604167	0	
22	N87A	0.515625	0	-6.604167	0	
23	N86D	0.715429	0	-6.590221	0	
24	N86E	-0.715429	0	-6.590221	0	
25	N88A	-0.	0	-6.520833	0	
26	N87C	0.234238	0.166667	-6.520833	0	
27	N86G	0.234238	0	-6.520833	0	
28	N87B	-0.234238	0.166667	-6.520833	0	
29	N88C	-0.234238	0	-6.520833	0	
30	N225A	-1.226869	0	0.708333	0	
31	N226A	-1.255074	0	3.659481	0	
32	N227A	-3.68346	0.166667	-0.546606	0	
33	N228A	-1.368355	0.166667	3.463272	0	
34	N229A	-2.525907	0	1.458333	0	
35	N230A	-5.719376	0	3.302083	0	
36	N232A	-3.68346	0	-0.546606	0	
37	N233A	-1.368355	0	3.463272	0	
38	N234A	-3.796741	0	-0.742815	0	
39	N235A	-2.442574	0	1.602671	0	
40	N236A	-2.609241	0	1.313996	0	
41	N237A	-1.444517	0	3.768856	0	
42	N238A	-3.986184	0	-0.63344	0	
43	N239A	-4.069517	0	-0.489102	0	
44	N240A	-5.921199	0	2.758562	0	
45	N241A	-1.611184	0	3.768856	0	
46	N242A	-5.349584	0	3.748628	0	
47	N243A	-4.195813	0	-0.562019	0	
48	N244A	-1.611184	0	3.91469	0	
49	N245A	-5.461564	0	3.748628	0	
50	N246A	-5.977189	0	2.855539	0	
51	N247A	-6.065013	0	2.675531	0	
52	N248A	-5.349584	0	3.91469	0	
53	N249A	-5.647207	0	3.260417	0	
54	N250A	-5.764326	0.166667	3.057561	0	
55	N251A	-5.764326	0	3.057561	0	
56	N252A	-5.530089	0.166667	3.463272	0	
57	N253A	-5.530089	0	3.463272	0	
58	N254A	1.226869	0	0.708333	0	
59	N255A	3.796741	0	-0.742815	0	
60	N256A	1.368355	0.166667	3.463272	0	
61	N257A	3.68346	0.166667	-0.546606	0	
62	N258A	2.525907	0	1.458333	0	
63	N259A	5.719376	0	3.302083	0	
64	N261A	1.368355	0	3.463272	0	
65	N262A	3.68346	0	-0.546606	0	
66	N263A	1.255074	0	3.659481	0	
67	N264A	2.609241	0	1.313996	0	
68	N265A	2.442574	0	1.602671	0	
69	N266A	3.986184	0	-0.63344	0	
70	N267A	1.444517	0	3.768856	0	
71	N268A	1.611184	0	3.768856	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
72	N269A	5.349584	0	3.748628	0	
73	N270A	4.069517	0	-0.489102	0	
74	N271A	5.921199	0	2.758562	0	
75	N272A	1.611184	0	3.91469	0	
76	N273A	4.195813	0	-0.562019	0	
77	N274A	5.977189	0	2.855539	0	
78	N275A	5.461564	0	3.748628	0	
79	N276A	5.349584	0	3.91469	0	
80	N277A	6.065013	0	2.675531	0	
81	N278A	5.647207	0	3.260417	0	
82	N279A	5.530089	0.166667	3.463272	0	
83	N280A	5.530089	0	3.463272	0	
84	N281A	5.764326	0.166667	3.057561	0	
85	N282A	5.764326	0	3.057561	0	
86	N281B	0.	0	3.91469	0	
87	N282B	6.25	0	3.91469	0	
88	N283A	-6.25	0	3.91469	0	
89	N285A	0.265221	0	-7.370004	0	
90	N286A	6.515221	0	3.455314	0	
91	N288A	-6.515221	0	3.455314	0	
92	N289A	-0.265221	0	-7.370004	0	
93	N288B	0	3.5	0	0	
94	N289B	6.25	3.5	3.91469	0	
95	N290A	-6.25	3.5	3.91469	0	
96	N291A	0.265221	3.5	-7.370004	0	
97	N292A	6.515221	3.5	3.455314	0	
98	N293A	-6.515221	3.5	3.455314	0	
99	N294A	-0.265221	3.5	-7.370004	0	
100	N295A	5.25	3.5	3.91469	0	
101	N296A	-5.25	3.5	3.91469	0	
102	N297A	5.25	3.5	3.78969	0	
103	N298A	-5.25	3.5	3.78969	0	
104	N300A	0.765221	3.5	-6.503978	0	
105	N301A	6.015221	3.5	2.589288	0	
106	N302A	0.656968	3.5	-6.441478	0	
107	N303A	5.906968	3.5	2.651788	0	
108	N305A	-6.015221	3.5	2.589288	0	
109	N306A	-0.765221	3.5	-6.503978	0	
110	N307A	-5.906968	3.5	2.651788	0	
111	N308A	-0.656968	3.5	-6.441478	0	
112	N112	6.	0	3.91469	0	
113	N113	6.	3.5	3.91469	0	
114	N114	6.	0	4.16469	0	
115	N115	6.	3.5	4.16469	0	
116	N116	6.	6	4.16469	0	
117	N117	6.	-2	4.16469	0	
118	N118	2.	0	3.91469	0	
119	N119	2.	3.5	3.91469	0	
120	N120	2.	0	4.16469	0	
121	N121	2.	3.5	4.16469	0	
122	N122	2.	6	4.16469	0	
123	N123	2.	-2	4.16469	0	
124	N124	-2.	0	3.91469	0	
125	N125	-2.	3.5	3.91469	0	
126	N126	-2.	0	4.16469	0	
127	N127	-2.	3.5	4.16469	0	
128	N128	-2.	6	4.16469	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
129	N129	-2.	-2	4.16469	0	
130	N130	-6.	0	3.91469	0	
131	N131A	-6.	3.5	3.91469	0	
132	N132	-6.	0	4.16469	0	
133	N133	-6.	3.5	4.16469	0	
134	N134	-6.	6	4.16469	0	
135	N135A	-6.	-2	4.16469	0	
136	N137	0.390221	0	-7.153497	0	
137	N138	0.390221	3.5	-7.153497	0	
138	N139	0.606727	0	-7.278497	0	
139	N140	0.606727	3.5	-7.278497	0	
140	N141	0.606727	6	-7.278497	0	
141	N142	0.606727	-2	-7.278497	0	
142	N143	2.390221	0	-3.689396	0	
143	N144A	2.390221	3.5	-3.689396	0	
144	N145	2.606727	0	-3.814396	0	
145	N146	2.606727	3.5	-3.814396	0	
146	N147	2.606727	6	-3.814396	0	
147	N148A	2.606727	-2	-3.814396	0	
148	N149	4.390221	0	-0.225294	0	
149	N150	4.390221	3.5	-0.225294	0	
150	N151	4.606727	0	-0.350294	0	
151	N152	4.606727	3.5	-0.350294	0	
152	N153	4.606727	6	-0.350294	0	
153	N154	4.606727	-2	-0.350294	0	
154	N155	6.390221	0	3.238807	0	
155	N156	6.390221	3.5	3.238807	0	
156	N157	6.606727	0	3.113807	0	
157	N158	6.606727	3.5	3.113807	0	
158	N159	6.606727	6	3.113807	0	
159	N160	6.606727	-2	3.113807	0	
160	N162	-6.390221	0	3.238807	0	
161	N163	-6.390221	3.5	3.238807	0	
162	N164	-6.606727	0	3.113807	0	
163	N165	-6.606727	3.5	3.113807	0	
164	N166	-6.606727	6	3.113807	0	
165	N167	-6.606727	-2	3.113807	0	
166	N168	-4.390221	0	-0.225294	0	
167	N169	-4.390221	3.5	-0.225294	0	
168	N170	-4.606727	0	-0.350294	0	
169	N171	-4.606727	3.5	-0.350294	0	
170	N172	-4.606727	6	-0.350294	0	
171	N173	-4.606727	-2	-0.350294	0	
172	N174	-2.390221	0	-3.689396	0	
173	N175	-2.390221	3.5	-3.689396	0	
174	N176	-2.606727	0	-3.814396	0	
175	N177	-2.606727	3.5	-3.814396	0	
176	N178	-2.606727	6	-3.814396	0	
177	N179	-2.606727	-2	-3.814396	0	
178	N180	-0.390221	0	-7.153497	0	
179	N181	-0.390221	3.5	-7.153497	0	
180	N182	-0.606727	0	-7.278497	0	
181	N183	-0.606727	3.5	-7.278497	0	
182	N184	-0.606727	6	-7.278497	0	
183	N185	-0.606727	-2	-7.278497	0	
184	N184A	-1.876388	0	1.083333	0	
185	N185A	-2.043055	0	0.794658	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
186	N186	-2.043055	-.5	0.794658	0	
187	N187	-2.043055	2.5	0.794658	0	
188	N188	-0.	-2.5	-1.416667	0	
189	N189	-1.226869	-2.5	0.708333	0	
190	N190	1.226869	-2.5	0.708333	0	
191	N191	-0.	0	-4.75	0	
192	N193	-4.113621	0	2.375	0	
193	N195	4.113621	0	2.375	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Ru...	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	HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	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 Crossmember	HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	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_2.0X	Column	Pipe	A53 Gr.B	Typical	1.4	.827	.827	1.65
7	Cross Arm Plate	PL3/8x6	Column	RECT	A36 Gr.36	Typical	2.25	.026	6.75	.101
8	Support Rail	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
9	Support Rail Connection	L2.5x2.5x4	Beam	Single Angle	A36 Gr.36	Typical	1.19	.692	.692	.026
10	Dual Antenna Mount Pipe	PIPE_2.5	Column	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
11	Kicker	LL2.5X2.5...	Column	Double Angl...	A36 Gr.36	Typical	1.92	2.096	1.158	.024
12	TES Kicker	L2x2x3	Column	Double Angl...	A36 Gr.36	Typical	.722	.271	.271	.009

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E...	Density[k/ft...	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	M4	N3	N27			Standoff	Beam	SquareTube	A500 Gr.B...	Typical
2	M10	N101	N103A			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
3	M43	N102	N5			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
4	M46	N86C	N87A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
5	M35A	N7	N30			RIGID	None	None	RIGID	Typical
6	M36A	N6	N29			RIGID	None	None	RIGID	Typical
7	M51B	N87C	N6			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
8	M52B	N7	N87B			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
9	M52	N87B	N88C			RIGID	None	None	RIGID	Typical
10	M58	N102	N24			RIGID	None	None	RIGID	Typical
11	M59	N24	N103A			RIGID	None	None	RIGID	Typical
12	M76	N101	N105			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
13	M77	N105	N131			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
14	M79	N131	N86A			RIGID	None	None	RIGID	Typical
15	M80	N87A	N135			Corner Plate	Beam	BAR	A36 Gr.36	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
16	M83	N135	N86D			RIGID	None	None	RIGID	Typical
17	M84	N5	N104A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
18	M85	N104A	N144			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
19	M88	N144	N86B			RIGID	None	None	RIGID	Typical
20	M91	N86C	N148			Corner Plate	Beam	BAR	A36 Gr.36	Typical
21	M92	N148	N86E			RIGID	None	None	RIGID	Typical
22	M50	N88C	N88A			RIGID	None	None	RIGID	Typical
23	M51	N88A	N86G			RIGID	None	None	RIGID	Typical
24	M51A	N87C	N86G			RIGID	None	None	RIGID	Typical
25	M150A	N225A	N230A			Standoff	Beam	SquareTube	A500 Gr.B...	Typical
26	M151A	N234A	N236A			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
27	M152A	N235A	N226A			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
28	M153A	N245A	N246A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
29	M154A	N228A	N233A			RIGID	None	None	RIGID	Typical
30	M155A	N227A	N232A			RIGID	None	None	RIGID	Typical
31	M156A	N250A	N227A			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
32	M157A	N228A	N252A			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
33	M158A	N252A	N253A			RIGID	None	None	RIGID	Typical
34	M159A	N235A	N229A			RIGID	None	None	RIGID	Typical
35	M160A	N229A	N236A			RIGID	None	None	RIGID	Typical
36	M161A	N234A	N238A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
37	M162A	N238A	N239A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
38	M163A	N239A	N243A			RIGID	None	None	RIGID	Typical
39	M164A	N246A	N240A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
40	M165A	N240A	N247A			RIGID	None	None	RIGID	Typical
41	M166A	N226A	N237A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
42	M167A	N237A	N241A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
43	M168A	N241A	N244A			RIGID	None	None	RIGID	Typical
44	M169A	N245A	N242A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
45	M170A	N242A	N248A			RIGID	None	None	RIGID	Typical
46	M171A	N253A	N249A			RIGID	None	None	RIGID	Typical
47	M172A	N249A	N251A			RIGID	None	None	RIGID	Typical
48	M173A	N250A	N251A			RIGID	None	None	RIGID	Typical
49	M174A	N254A	N259A			Standoff	Beam	SquareTube	A500 Gr.B...	Typical
50	M175A	N263A	N265A			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
51	M176A	N264A	N255A			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
52	M177A	N274A	N275A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
53	M178A	N257A	N262A			RIGID	None	None	RIGID	Typical
54	M179A	N256A	N261A			RIGID	None	None	RIGID	Typical
55	M180A	N279A	N256A			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
56	M181A	N257A	N281A			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
57	M182A	N281A	N282A			RIGID	None	None	RIGID	Typical
58	M183A	N264A	N258A			RIGID	None	None	RIGID	Typical
59	M184A	N258A	N265A			RIGID	None	None	RIGID	Typical
60	M185A	N263A	N267A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
61	M186A	N267A	N268A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
62	M187A	N268A	N272A			RIGID	None	None	RIGID	Typical
63	M188A	N275A	N269A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
64	M189A	N269A	N276A			RIGID	None	None	RIGID	Typical
65	M190A	N255A	N266A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
66	M191A	N266A	N270A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
67	M192A	N270A	N273A			RIGID	None	None	RIGID	Typical
68	M193A	N274A	N271A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
69	M194A	N271A	N277A			RIGID	None	None	RIGID	Typical
70	M195A	N282A	N278A			RIGID	None	None	RIGID	Typical
71	M196A	N278A	N280A			RIGID	None	None	RIGID	Typical
72	M197A	N279A	N280A			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
73	M198A	N283A	N282B			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
74	M199A	N286A	N285A			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
75	M200A	N289A	N288A			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
76	M201A	N290A	N289B			Support Rail	Beam	Pipe	A53 Gr.B	Typical
77	M202A	N292A	N291A			Support Rail	Beam	Pipe	A53 Gr.B	Typical
78	M203A	N294A	N293A			Support Rail	Beam	Pipe	A53 Gr.B	Typical
79	M204A	N296A	N298A			RIGID	None	None	RIGID	Typical
80	M205A	N295A	N297A			RIGID	None	None	RIGID	Typical
81	M206A	N301A	N303A			RIGID	None	None	RIGID	Typical
82	M207A	N300A	N302A			RIGID	None	None	RIGID	Typical
83	M208A	N306A	N308A			RIGID	None	None	RIGID	Typical
84	M209A	N305A	N307A			RIGID	None	None	RIGID	Typical
85	M210A	N307A	N298A		90	Support Rail C...	Beam	Single Angle	A36 Gr.36	Typical
86	M211A	N297A	N303A		90	Support Rail C...	Beam	Single Angle	A36 Gr.36	Typical
87	M212A	N302A	N308A		90	Support Rail C...	Beam	Single Angle	A36 Gr.36	Typical
88	M88A	N113	N115			RIGID	None	None	RIGID	Typical
89	M89	N112	N114			RIGID	None	None	RIGID	Typical
90	MP1A	N116	N117			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
91	M91A	N119	N121			RIGID	None	None	RIGID	Typical
92	M92A	N118	N120			RIGID	None	None	RIGID	Typical
93	MP2A	N122	N123			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
94	M94	N125	N127			RIGID	None	None	RIGID	Typical
95	M95	N124	N126			RIGID	None	None	RIGID	Typical
96	MP3A	N128	N129			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
97	M97	N131A	N133			RIGID	None	None	RIGID	Typical
98	M98	N130	N132			RIGID	None	None	RIGID	Typical
99	MP4A	N134	N135A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
100	M100	N138	N140			RIGID	None	None	RIGID	Typical
101	M101	N137	N139			RIGID	None	None	RIGID	Typical
102	MP1C	N141	N142			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
103	M103	N144A	N146			RIGID	None	None	RIGID	Typical
104	M104	N143	N145			RIGID	None	None	RIGID	Typical
105	MP2C	N147	N148A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
106	M106	N150	N152			RIGID	None	None	RIGID	Typical
107	M107	N149	N151			RIGID	None	None	RIGID	Typical
108	MP3C	N153	N154			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
109	M109	N156	N158			RIGID	None	None	RIGID	Typical
110	M110	N155	N157			RIGID	None	None	RIGID	Typical
111	MP4C	N159	N160			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
112	M112	N163	N165			RIGID	None	None	RIGID	Typical
113	M113	N162	N164			RIGID	None	None	RIGID	Typical
114	MP1B	N166	N167			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
115	M115	N169	N171			RIGID	None	None	RIGID	Typical
116	M116	N168	N170			RIGID	None	None	RIGID	Typical
117	MP2B	N172	N173			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
118	M118	N175	N177			RIGID	None	None	RIGID	Typical
119	M119	N174	N176			RIGID	None	None	RIGID	Typical
120	MP3B	N178	N179			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
121	M121	N181	N183			RIGID	None	None	RIGID	Typical
122	M122	N180	N182			RIGID	None	None	RIGID	Typical
123	MP4B	N184	N185			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
124	M124	N184A	N185A			RIGID	None	None	RIGID	Typical
125	M125	N187	N186			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
126	M126	N193	N189			Kicker	Column	Double Angle (...	A36 Gr.36	Typical
127	M127	N191	N188			Kicker	Column	Double Angle (...	A36 Gr.36	Typical
128	M128	N195	N190			Kicker	Column	Double Angle (...	A36 Gr.36	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M4						Yes				None
2	M10						Yes	Default			None
3	M43						Yes	Default			None
4	M46						Yes	Default			None
5	M35A						Yes	** NA **			None
6	M36A						Yes	** NA **			None
7	M51B	OOOOOX	OOOOOX				Yes	Default			None
8	M52B	OOOOOX	OOOOOX				Yes	Default			None
9	M52						Yes	** NA **			None
10	M58						Yes	** NA **			None
11	M59						Yes	** NA **			None
12	M76						Yes	** NA **			None
13	M77						Yes	** NA **			None
14	M79		BenPIN				Yes	** NA **			None
15	M80						Yes				None
16	M83		BenPIN				Yes	** NA **			None
17	M84						Yes	** NA **			None
18	M85						Yes	** NA **			None
19	M88		BenPIN				Yes	** NA **			None
20	M91						Yes				None
21	M92		BenPIN				Yes	** NA **			None
22	M50						Yes	** NA **			None
23	M51						Yes	** NA **			None
24	M51A						Yes	** NA **			None
25	M150A						Yes				None
26	M151A						Yes	Default			None
27	M152A						Yes	Default			None
28	M153A						Yes	Default			None
29	M154A						Yes	** NA **			None
30	M155A						Yes	** NA **			None
31	M156A	OOOOOX	OOOOOX				Yes	Default			None
32	M157A	OOOOOX	OOOOOX				Yes	Default			None
33	M158A						Yes	** NA **			None
34	M159A						Yes	** NA **			None
35	M160A						Yes	** NA **			None
36	M161A						Yes	** NA **			None
37	M162A						Yes	** NA **			None
38	M163A		BenPIN				Yes	** NA **			None
39	M164A						Yes				None
40	M165A		BenPIN				Yes	** NA **			None
41	M166A						Yes	** NA **			None
42	M167A						Yes	** NA **			None
43	M168A		BenPIN				Yes	** NA **			None
44	M169A						Yes				None
45	M170A		BenPIN				Yes	** NA **			None
46	M171A						Yes	** NA **			None
47	M172A						Yes	** NA **			None
48	M173A						Yes	** NA **			None
49	M174A						Yes				None
50	M175A						Yes	Default			None
51	M176A						Yes	Default			None
52	M177A						Yes	Default			None
53	M178A						Yes	** NA **			None
54	M179A						Yes	** NA **			None
55	M180A	OOOOOX	OOOOOX				Yes	Default			None
56	M181A	OOOOOX	OOOOOX				Yes	Default			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
57	M182A						Yes	** NA **			None
58	M183A						Yes	** NA **			None
59	M184A						Yes	** NA **			None
60	M185A						Yes	** NA **			None
61	M186A						Yes	** NA **			None
62	M187A		BenPIN				Yes	** NA **			None
63	M188A						Yes				None
64	M189A		BenPIN				Yes	** NA **			None
65	M190A						Yes	** NA **			None
66	M191A						Yes	** NA **			None
67	M192A		BenPIN				Yes	** NA **			None
68	M193A						Yes				None
69	M194A		BenPIN				Yes	** NA **			None
70	M195A						Yes	** NA **			None
71	M196A						Yes	** NA **			None
72	M197A						Yes	** NA **			None
73	M198A						Yes				None
74	M199A						Yes				None
75	M200A						Yes				None
76	M201A						Yes				None
77	M202A						Yes				None
78	M203A						Yes				None
79	M204A	OOOOOX					Yes	** NA **			None
80	M205A	OOOOOX					Yes	** NA **			None
81	M206A	OOOOOX					Yes	** NA **			None
82	M207A	OOOOOX					Yes	** NA **			None
83	M208A	OOOOOX					Yes	** NA **			None
84	M209A	OOOOOX					Yes	** NA **			None
85	M210A						Yes				None
86	M211A						Yes				None
87	M212A						Yes				None
88	M88A						Yes	** NA **			None
89	M89						Yes	** NA **			None
90	MP1A						Yes	** NA **			None
91	M91A						Yes	** NA **			None
92	M92A						Yes	** NA **			None
93	MP2A						Yes	** NA **			None
94	M94						Yes	** NA **			None
95	M95						Yes	** NA **			None
96	MP3A						Yes	** NA **			None
97	M97						Yes	** NA **			None
98	M98						Yes	** NA **			None
99	MP4A						Yes	** NA **			None
100	M100						Yes	** NA **			None
101	M101						Yes	** NA **			None
102	MP1C						Yes	** NA **			None
103	M103						Yes	** NA **			None
104	M104						Yes	** NA **			None
105	MP2C						Yes	** NA **			None
106	M106						Yes	** NA **			None
107	M107						Yes	** NA **			None
108	MP3C						Yes	** NA **			None
109	M109						Yes	** NA **			None
110	M110						Yes	** NA **			None
111	MP4C						Yes	** NA **			None
112	M112						Yes	** NA **			None
113	M113						Yes	** NA **			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
114	MP1B						Yes	** NA **			None
115	M115						Yes	** NA **			None
116	M116						Yes	** NA **			None
117	MP2B						Yes	** NA **			None
118	M118						Yes	** NA **			None
119	M119						Yes	** NA **			None
120	MP3B						Yes	** NA **			None
121	M121						Yes	** NA **			None
122	M122						Yes	** NA **			None
123	MP4B						Yes	** NA **			None
124	M124						Yes	** NA **			None
125	M125						Yes	** NA **			None
126	M126	BenPIN					Yes	** NA **			None
127	M127	BenPIN					Yes	** NA **			None
128	M128	BenPIN					Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	Y	-43.55	2.75
2	MP4A	My	-.022	2.75
3	MP4A	Mz	0	2.75
4	MP4A	Y	-43.55	4.75
5	MP4A	My	-.022	4.75
6	MP4A	Mz	0	4.75
7	MP4B	Y	-43.55	2.75
8	MP4B	My	.017	2.75
9	MP4B	Mz	-.014	2.75
10	MP4B	Y	-43.55	4.75
11	MP4B	My	.017	4.75
12	MP4B	Mz	-.014	4.75
13	MP4C	Y	-43.55	2.75
14	MP4C	My	.007	2.75
15	MP4C	Mz	.02	2.75
16	MP4C	Y	-43.55	4.75
17	MP4C	My	.007	4.75
18	MP4C	Mz	.02	4.75
19	MP2A	Y	-23	1.25
20	MP2A	My	-.011	1.25
21	MP2A	Mz	.015	1.25
22	MP2A	Y	-23	6.25
23	MP2A	My	-.011	6.25
24	MP2A	Mz	.015	6.25
25	MP2B	Y	-23	1.25
26	MP2B	My	-.001	1.25
27	MP2B	Mz	-.019	1.25
28	MP2B	Y	-23	6.25
29	MP2B	My	-.001	6.25
30	MP2B	Mz	-.019	6.25
31	MP2C	Y	-23	1.25
32	MP2C	My	.018	1.25
33	MP2C	Mz	.006	1.25
34	MP2C	Y	-23	6.25
35	MP2C	My	.018	6.25
36	MP2C	Mz	.006	6.25
37	MP2A	Y	-23	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
38	MP2A	My	-.011	1.25
39	MP2A	Mz	-.015	1.25
40	MP2A	Y	-23	6.25
41	MP2A	My	-.011	6.25
42	MP2A	Mz	-.015	6.25
43	MP2B	Y	-23	1.25
44	MP2B	My	.019	1.25
45	MP2B	Mz	.004	1.25
46	MP2B	Y	-23	6.25
47	MP2B	My	.019	6.25
48	MP2B	Mz	.004	6.25
49	MP2C	Y	-23	1.25
50	MP2C	My	-.01	1.25
51	MP2C	Mz	.016	1.25
52	MP2C	Y	-23	6.25
53	MP2C	My	-.01	6.25
54	MP2C	Mz	.016	6.25
55	M125	Y	-26.9	1.5
56	M125	My	0	1.5
57	M125	Mz	0	1.5
58	MP1A	Y	-84.4	4.5
59	MP1A	My	.042	4.5
60	MP1A	Mz	0	4.5
61	MP1B	Y	-84.4	4.5
62	MP1B	My	-.032	4.5
63	MP1B	Mz	.027	4.5
64	MP1C	Y	-84.4	4.5
65	MP1C	My	-.014	4.5
66	MP1C	Mz	-.04	4.5
67	MP2A	Y	-70.3	4.5
68	MP2A	My	.035	4.5
69	MP2A	Mz	0	4.5
70	MP2B	Y	-70.3	4.5
71	MP2B	My	-.027	4.5
72	MP2B	Mz	.023	4.5
73	MP2C	Y	-70.3	4.5
74	MP2C	My	-.012	4.5
75	MP2C	Mz	-.033	4.5

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	Y	-36.598	2.75
2	MP4A	My	-.018	2.75
3	MP4A	Mz	0	2.75
4	MP4A	Y	-36.598	4.75
5	MP4A	My	-.018	4.75
6	MP4A	Mz	0	4.75
7	MP4B	Y	-36.598	2.75
8	MP4B	My	.014	2.75
9	MP4B	Mz	-.012	2.75
10	MP4B	Y	-36.598	4.75
11	MP4B	My	.014	4.75
12	MP4B	Mz	-.012	4.75
13	MP4C	Y	-36.598	2.75
14	MP4C	My	.006	2.75
15	MP4C	Mz	.017	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP4C	Y	-36.598	4.75
17	MP4C	My	.006	4.75
18	MP4C	Mz	.017	4.75
19	MP2A	Y	-84.679	1.25
20	MP2A	My	-.042	1.25
21	MP2A	Mz	.056	1.25
22	MP2A	Y	-84.679	6.25
23	MP2A	My	-.042	6.25
24	MP2A	Mz	.056	6.25
25	MP2B	Y	-84.679	1.25
26	MP2B	My	-.004	1.25
27	MP2B	Mz	-.07	1.25
28	MP2B	Y	-84.679	6.25
29	MP2B	My	-.004	6.25
30	MP2B	Mz	-.07	6.25
31	MP2C	Y	-84.679	1.25
32	MP2C	My	.068	1.25
33	MP2C	Mz	.02	1.25
34	MP2C	Y	-84.679	6.25
35	MP2C	My	.068	6.25
36	MP2C	Mz	.02	6.25
37	MP2A	Y	-84.679	1.25
38	MP2A	My	-.042	1.25
39	MP2A	Mz	-.056	1.25
40	MP2A	Y	-84.679	6.25
41	MP2A	My	-.042	6.25
42	MP2A	Mz	-.056	6.25
43	MP2B	Y	-84.679	1.25
44	MP2B	My	.069	1.25
45	MP2B	Mz	.016	1.25
46	MP2B	Y	-84.679	6.25
47	MP2B	My	.069	6.25
48	MP2B	Mz	.016	6.25
49	MP2C	Y	-84.679	1.25
50	MP2C	My	-.039	1.25
51	MP2C	Mz	.059	1.25
52	MP2C	Y	-84.679	6.25
53	MP2C	My	-.039	6.25
54	MP2C	Mz	.059	6.25
55	M125	Y	-56.822	1.5
56	M125	My	0	1.5
57	M125	Mz	0	1.5
58	MP1A	Y	-46.159	4.5
59	MP1A	My	.023	4.5
60	MP1A	Mz	0	4.5
61	MP1B	Y	-46.159	4.5
62	MP1B	My	-.018	4.5
63	MP1B	Mz	.015	4.5
64	MP1C	Y	-46.159	4.5
65	MP1C	My	-.008	4.5
66	MP1C	Mz	-.022	4.5
67	MP2A	Y	-41.52	4.5
68	MP2A	My	.021	4.5
69	MP2A	Mz	0	4.5
70	MP2B	Y	-41.52	4.5
71	MP2B	My	-.016	4.5
72	MP2B	Mz	.013	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP2C	Y	-41.52	4.5
74	MP2C	My	-.007	4.5
75	MP2C	Mz	-.02	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	0	2.75
2	MP4A	Z	-110.036	2.75
3	MP4A	Mx	0	2.75
4	MP4A	X	0	4.75
5	MP4A	Z	-110.036	4.75
6	MP4A	Mx	0	4.75
7	MP4B	X	0	2.75
8	MP4B	Z	-82.371	2.75
9	MP4B	Mx	.026	2.75
10	MP4B	X	0	4.75
11	MP4B	Z	-82.371	4.75
12	MP4B	Mx	.026	4.75
13	MP4C	X	0	2.75
14	MP4C	Z	-50.912	2.75
15	MP4C	Mx	-.024	2.75
16	MP4C	X	0	4.75
17	MP4C	Z	-50.912	4.75
18	MP4C	Mx	-.024	4.75
19	MP2A	X	0	1.25
20	MP2A	Z	-231.077	1.25
21	MP2A	Mx	-.154	1.25
22	MP2A	X	0	6.25
23	MP2A	Z	-231.077	6.25
24	MP2A	Mx	-.154	6.25
25	MP2B	X	0	1.25
26	MP2B	Z	-206.583	1.25
27	MP2B	Mx	.172	1.25
28	MP2B	X	0	6.25
29	MP2B	Z	-206.583	6.25
30	MP2B	Mx	.172	6.25
31	MP2C	X	0	1.25
32	MP2C	Z	-178.731	1.25
33	MP2C	Mx	-.043	1.25
34	MP2C	X	0	6.25
35	MP2C	Z	-178.731	6.25
36	MP2C	Mx	-.043	6.25
37	MP2A	X	0	1.25
38	MP2A	Z	-231.077	1.25
39	MP2A	Mx	.154	1.25
40	MP2A	X	0	6.25
41	MP2A	Z	-231.077	6.25
42	MP2A	Mx	.154	6.25
43	MP2B	X	0	1.25
44	MP2B	Z	-206.583	1.25
45	MP2B	Mx	-.039	1.25
46	MP2B	X	0	6.25
47	MP2B	Z	-206.583	6.25
48	MP2B	Mx	-.039	6.25
49	MP2C	X	0	1.25
50	MP2C	Z	-178.731	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
51	MP2C	Mx	-.125	1.25
52	MP2C	X	0	6.25
53	MP2C	Z	-178.731	6.25
54	MP2C	Mx	-.125	6.25
55	M125	X	0	1.5
56	M125	Z	-77.256	1.5
57	M125	Mx	0	1.5
58	MP1A	X	0	4.5
59	MP1A	Z	-87.561	4.5
60	MP1A	Mx	0	4.5
61	MP1B	X	0	4.5
62	MP1B	Z	-75.566	4.5
63	MP1B	Mx	-.024	4.5
64	MP1C	X	0	4.5
65	MP1C	Z	-61.926	4.5
66	MP1C	Mx	.029	4.5
67	MP2A	X	0	4.5
68	MP2A	Z	-87.561	4.5
69	MP2A	Mx	0	4.5
70	MP2B	X	0	4.5
71	MP2B	Z	-70.971	4.5
72	MP2B	Mx	-.023	4.5
73	MP2C	X	0	4.5
74	MP2C	Z	-52.106	4.5
75	MP2C	Mx	.024	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	46.649	2.75
2	MP4A	Z	-80.798	2.75
3	MP4A	Mx	-.023	2.75
4	MP4A	X	46.649	4.75
5	MP4A	Z	-80.798	4.75
6	MP4A	Mx	-.023	4.75
7	MP4B	X	25.456	2.75
8	MP4B	Z	-44.091	2.75
9	MP4B	Mx	.024	2.75
10	MP4B	X	25.456	4.75
11	MP4B	Z	-44.091	4.75
12	MP4B	Mx	.024	4.75
13	MP4C	X	41.186	2.75
14	MP4C	Z	-71.336	2.75
15	MP4C	Mx	-.026	2.75
16	MP4C	X	41.186	4.75
17	MP4C	Z	-71.336	4.75
18	MP4C	Mx	-.026	4.75
19	MP2A	X	108.128	1.25
20	MP2A	Z	-187.284	1.25
21	MP2A	Mx	-.179	1.25
22	MP2A	X	108.128	6.25
23	MP2A	Z	-187.284	6.25
24	MP2A	Mx	-.179	6.25
25	MP2B	X	89.365	1.25
26	MP2B	Z	-154.785	1.25
27	MP2B	Mx	.125	1.25
28	MP2B	X	89.365	6.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP2B	Z	-154.785	6.25
30	MP2B	Mx	.125	6.25
31	MP2C	X	103.292	1.25
32	MP2C	Z	-178.907	1.25
33	MP2C	Mx	.039	1.25
34	MP2C	X	103.292	6.25
35	MP2C	Z	-178.907	6.25
36	MP2C	Mx	.039	6.25
37	MP2A	X	108.128	1.25
38	MP2A	Z	-187.284	1.25
39	MP2A	Mx	.071	1.25
40	MP2A	X	108.128	6.25
41	MP2A	Z	-187.284	6.25
42	MP2A	Mx	.071	6.25
43	MP2B	X	89.365	1.25
44	MP2B	Z	-154.785	1.25
45	MP2B	Mx	.043	1.25
46	MP2B	X	89.365	6.25
47	MP2B	Z	-154.785	6.25
48	MP2B	Mx	.043	6.25
49	MP2C	X	103.292	1.25
50	MP2C	Z	-178.907	1.25
51	MP2C	Mx	-.172	1.25
52	MP2C	X	103.292	6.25
53	MP2C	Z	-178.907	6.25
54	MP2C	Mx	-.172	6.25
55	M125	X	40.41	1.5
56	M125	Z	-69.992	1.5
57	M125	Mx	0	1.5
58	MP1A	X	40.152	4.5
59	MP1A	Z	-69.545	4.5
60	MP1A	Mx	.02	4.5
61	MP1B	X	30.963	4.5
62	MP1B	Z	-53.629	4.5
63	MP1B	Mx	-.029	4.5
64	MP1C	X	37.783	4.5
65	MP1C	Z	-65.442	4.5
66	MP1C	Mx	.024	4.5
67	MP2A	X	38.762	4.5
68	MP2A	Z	-67.137	4.5
69	MP2A	Mx	.019	4.5
70	MP2B	X	26.053	4.5
71	MP2B	Z	-45.125	4.5
72	MP2B	Mx	-.024	4.5
73	MP2C	X	35.486	4.5
74	MP2C	Z	-61.463	4.5
75	MP2C	Mx	.023	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	51.804	2.75
2	MP4A	Z	-29.909	2.75
3	MP4A	Mx	-.026	2.75
4	MP4A	X	51.804	4.75
5	MP4A	Z	-29.909	4.75
6	MP4A	Mx	-.026	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
7	MP4B	X	39.056	2.75
8	MP4B	Z	-22.549	2.75
9	MP4B	Mx	.022	2.75
10	MP4B	X	39.056	4.75
11	MP4B	Z	-22.549	4.75
12	MP4B	Mx	.022	4.75
13	MP4C	X	93.546	2.75
14	MP4C	Z	-54.009	2.75
15	MP4C	Mx	-.009	2.75
16	MP4C	X	93.546	4.75
17	MP4C	Z	-54.009	4.75
18	MP4C	Mx	-.009	4.75
19	MP2A	X	161.615	1.25
20	MP2A	Z	-93.308	1.25
21	MP2A	Mx	-.143	1.25
22	MP2A	X	161.615	6.25
23	MP2A	Z	-93.308	6.25
24	MP2A	Mx	-.143	6.25
25	MP2B	X	150.328	1.25
26	MP2B	Z	-86.792	1.25
27	MP2B	Mx	.065	1.25
28	MP2B	X	150.328	6.25
29	MP2B	Z	-86.792	6.25
30	MP2B	Mx	.065	6.25
31	MP2C	X	198.57	1.25
32	MP2C	Z	-114.645	1.25
33	MP2C	Mx	.131	1.25
34	MP2C	X	198.57	6.25
35	MP2C	Z	-114.645	6.25
36	MP2C	Mx	.131	6.25
37	MP2A	X	161.615	1.25
38	MP2A	Z	-93.308	1.25
39	MP2A	Mx	-.019	1.25
40	MP2A	X	161.615	6.25
41	MP2A	Z	-93.308	6.25
42	MP2A	Mx	-.019	6.25
43	MP2B	X	150.328	1.25
44	MP2B	Z	-86.792	1.25
45	MP2B	Mx	.106	1.25
46	MP2B	X	150.328	6.25
47	MP2B	Z	-86.792	6.25
48	MP2B	Mx	.106	6.25
49	MP2C	X	198.57	1.25
50	MP2C	Z	-114.645	1.25
51	MP2C	Mx	-.17	1.25
52	MP2C	X	198.57	6.25
53	MP2C	Z	-114.645	6.25
54	MP2C	Mx	-.17	6.25
55	M125	X	86.692	1.5
56	M125	Z	-50.051	1.5
57	M125	Mx	0	1.5
58	MP1A	X	56.974	4.5
59	MP1A	Z	-32.894	4.5
60	MP1A	Mx	.028	4.5
61	MP1B	X	51.447	4.5
62	MP1B	Z	-29.703	4.5
63	MP1B	Mx	-.029	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
64	MP1C	X	75.072	4.5
65	MP1C	Z	-43.343	4.5
66	MP1C	Mx	.008	4.5
67	MP2A	X	49.751	4.5
68	MP2A	Z	-28.724	4.5
69	MP2A	Mx	.025	4.5
70	MP2B	X	42.106	4.5
71	MP2B	Z	-24.31	4.5
72	MP2B	Mx	-.024	4.5
73	MP2C	X	74.781	4.5
74	MP2C	Z	-43.175	4.5
75	MP2C	Mx	.007	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	43.079	2.75
2	MP4A	Z	0	2.75
3	MP4A	Mx	-.022	2.75
4	MP4A	X	43.079	4.75
5	MP4A	Z	0	4.75
6	MP4A	Mx	-.022	4.75
7	MP4B	X	70.744	2.75
8	MP4B	Z	0	2.75
9	MP4B	Mx	.027	2.75
10	MP4B	X	70.744	4.75
11	MP4B	Z	0	4.75
12	MP4B	Mx	.027	4.75
13	MP4C	X	102.204	2.75
14	MP4C	Z	0	2.75
15	MP4C	Mx	.017	2.75
16	MP4C	X	102.204	4.75
17	MP4C	Z	0	4.75
18	MP4C	Mx	.017	4.75
19	MP2A	X	171.796	1.25
20	MP2A	Z	0	1.25
21	MP2A	Mx	-.086	1.25
22	MP2A	X	171.796	6.25
23	MP2A	Z	0	6.25
24	MP2A	Mx	-.086	6.25
25	MP2B	X	196.29	1.25
26	MP2B	Z	0	1.25
27	MP2B	Mx	-.009	1.25
28	MP2B	X	196.29	6.25
29	MP2B	Z	0	6.25
30	MP2B	Mx	-.009	6.25
31	MP2C	X	224.142	1.25
32	MP2C	Z	0	1.25
33	MP2C	Mx	.179	1.25
34	MP2C	X	224.142	6.25
35	MP2C	Z	0	6.25
36	MP2C	Mx	.179	6.25
37	MP2A	X	171.796	1.25
38	MP2A	Z	0	1.25
39	MP2A	Mx	-.086	1.25
40	MP2A	X	171.796	6.25
41	MP2A	Z	0	6.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
42	MP2A	Mx	-.086	6.25
43	MP2B	X	196.29	1.25
44	MP2B	Z	0	1.25
45	MP2B	Mx	.159	1.25
46	MP2B	X	196.29	6.25
47	MP2B	Z	0	6.25
48	MP2B	Mx	.159	6.25
49	MP2C	X	224.142	1.25
50	MP2C	Z	0	1.25
51	MP2C	Mx	-.102	1.25
52	MP2C	X	224.142	6.25
53	MP2C	Z	0	6.25
54	MP2C	Mx	-.102	6.25
55	M125	X	115.823	1.5
56	M125	Z	0	1.5
57	M125	Mx	0	1.5
58	MP1A	X	58.53	4.5
59	MP1A	Z	0	4.5
60	MP1A	Mx	.029	4.5
61	MP1B	X	70.525	4.5
62	MP1B	Z	0	4.5
63	MP1B	Mx	-.027	4.5
64	MP1C	X	84.165	4.5
65	MP1C	Z	0	4.5
66	MP1C	Mx	-.014	4.5
67	MP2A	X	47.409	4.5
68	MP2A	Z	0	4.5
69	MP2A	Mx	.024	4.5
70	MP2B	X	63.999	4.5
71	MP2B	Z	0	4.5
72	MP2B	Mx	-.025	4.5
73	MP2C	X	82.864	4.5
74	MP2C	Z	0	4.5
75	MP2C	Mx	-.014	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	51.804	2.75
2	MP4A	Z	29.909	2.75
3	MP4A	Mx	-.026	2.75
4	MP4A	X	51.804	4.75
5	MP4A	Z	29.909	4.75
6	MP4A	Mx	-.026	4.75
7	MP4B	X	88.511	2.75
8	MP4B	Z	51.102	2.75
9	MP4B	Mx	.017	2.75
10	MP4B	X	88.511	4.75
11	MP4B	Z	51.102	4.75
12	MP4B	Mx	.017	4.75
13	MP4C	X	61.266	2.75
14	MP4C	Z	35.372	2.75
15	MP4C	Mx	.027	2.75
16	MP4C	X	61.266	4.75
17	MP4C	Z	35.372	4.75
18	MP4C	Mx	.027	4.75
19	MP2A	X	161.615	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
20	MP2A	Z	93.308	1.25
21	MP2A	Mx	-.019	1.25
22	MP2A	X	161.615	6.25
23	MP2A	Z	93.308	6.25
24	MP2A	Mx	-.019	6.25
25	MP2B	X	194.113	1.25
26	MP2B	Z	112.071	1.25
27	MP2B	Mx	-.102	1.25
28	MP2B	X	194.113	6.25
29	MP2B	Z	112.071	6.25
30	MP2B	Mx	-.102	6.25
31	MP2C	X	169.992	1.25
32	MP2C	Z	98.145	1.25
33	MP2C	Mx	.159	1.25
34	MP2C	X	169.992	6.25
35	MP2C	Z	98.145	6.25
36	MP2C	Mx	.159	6.25
37	MP2A	X	161.615	1.25
38	MP2A	Z	93.308	1.25
39	MP2A	Mx	-.143	1.25
40	MP2A	X	161.615	6.25
41	MP2A	Z	93.308	6.25
42	MP2A	Mx	-.143	6.25
43	MP2B	X	194.113	1.25
44	MP2B	Z	112.071	1.25
45	MP2B	Mx	.179	1.25
46	MP2B	X	194.113	6.25
47	MP2B	Z	112.071	6.25
48	MP2B	Mx	.179	6.25
49	MP2C	X	169.992	1.25
50	MP2C	Z	98.145	1.25
51	MP2C	Mx	-.009	1.25
52	MP2C	X	169.992	6.25
53	MP2C	Z	98.145	6.25
54	MP2C	Mx	-.009	6.25
55	M125	X	97.219	1.5
56	M125	Z	56.13	1.5
57	M125	Mx	0	1.5
58	MP1A	X	56.974	4.5
59	MP1A	Z	32.894	4.5
60	MP1A	Mx	.028	4.5
61	MP1B	X	72.889	4.5
62	MP1B	Z	42.082	4.5
63	MP1B	Mx	-.014	4.5
64	MP1C	X	61.076	4.5
65	MP1C	Z	35.262	4.5
66	MP1C	Mx	-.027	4.5
67	MP2A	X	49.751	4.5
68	MP2A	Z	28.724	4.5
69	MP2A	Mx	.025	4.5
70	MP2B	X	71.762	4.5
71	MP2B	Z	41.432	4.5
72	MP2B	Mx	-.014	4.5
73	MP2C	X	55.425	4.5
74	MP2C	Z	32	4.5
75	MP2C	Mx	-.025	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	46.649	2.75
2	MP4A	Z	80.798	2.75
3	MP4A	Mx	-.023	2.75
4	MP4A	X	46.649	4.75
5	MP4A	Z	80.798	4.75
6	MP4A	Mx	-.023	4.75
7	MP4B	X	54.009	2.75
8	MP4B	Z	93.546	2.75
9	MP4B	Mx	-.009	2.75
10	MP4B	X	54.009	4.75
11	MP4B	Z	93.546	4.75
12	MP4B	Mx	-.009	4.75
13	MP4C	X	22.549	2.75
14	MP4C	Z	39.056	2.75
15	MP4C	Mx	.022	2.75
16	MP4C	X	22.549	4.75
17	MP4C	Z	39.056	4.75
18	MP4C	Mx	.022	4.75
19	MP2A	X	108.128	1.25
20	MP2A	Z	187.284	1.25
21	MP2A	Mx	.071	1.25
22	MP2A	X	108.128	6.25
23	MP2A	Z	187.284	6.25
24	MP2A	Mx	.071	6.25
25	MP2B	X	114.645	1.25
26	MP2B	Z	198.57	1.25
27	MP2B	Mx	-.17	1.25
28	MP2B	X	114.645	6.25
29	MP2B	Z	198.57	6.25
30	MP2B	Mx	-.17	6.25
31	MP2C	X	86.792	1.25
32	MP2C	Z	150.328	1.25
33	MP2C	Mx	.106	1.25
34	MP2C	X	86.792	6.25
35	MP2C	Z	150.328	6.25
36	MP2C	Mx	.106	6.25
37	MP2A	X	108.128	1.25
38	MP2A	Z	187.284	1.25
39	MP2A	Mx	-.179	1.25
40	MP2A	X	108.128	6.25
41	MP2A	Z	187.284	6.25
42	MP2A	Mx	-.179	6.25
43	MP2B	X	114.645	1.25
44	MP2B	Z	198.57	1.25
45	MP2B	Mx	.131	1.25
46	MP2B	X	114.645	6.25
47	MP2B	Z	198.57	6.25
48	MP2B	Mx	.131	6.25
49	MP2C	X	86.792	1.25
50	MP2C	Z	150.328	1.25
51	MP2C	Mx	.065	1.25
52	MP2C	X	86.792	6.25
53	MP2C	Z	150.328	6.25
54	MP2C	Mx	.065	6.25
55	M125	X	46.488	1.5
56	M125	Z	80.52	1.5
57	M125	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP1A	X	40.152	4.5
59	MP1A	Z	69.545	4.5
60	MP1A	Mx	.02	4.5
61	MP1B	X	43.343	4.5
62	MP1B	Z	75.072	4.5
63	MP1B	Mx	.008	4.5
64	MP1C	X	29.703	4.5
65	MP1C	Z	51.447	4.5
66	MP1C	Mx	-.029	4.5
67	MP2A	X	38.762	4.5
68	MP2A	Z	67.137	4.5
69	MP2A	Mx	.019	4.5
70	MP2B	X	43.175	4.5
71	MP2B	Z	74.781	4.5
72	MP2B	Mx	.007	4.5
73	MP2C	X	24.31	4.5
74	MP2C	Z	42.106	4.5
75	MP2C	Mx	-.024	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	0	2.75
2	MP4A	Z	110.036	2.75
3	MP4A	Mx	0	2.75
4	MP4A	X	0	4.75
5	MP4A	Z	110.036	4.75
6	MP4A	Mx	0	4.75
7	MP4B	X	0	2.75
8	MP4B	Z	82.371	2.75
9	MP4B	Mx	-.026	2.75
10	MP4B	X	0	4.75
11	MP4B	Z	82.371	4.75
12	MP4B	Mx	-.026	4.75
13	MP4C	X	0	2.75
14	MP4C	Z	50.912	2.75
15	MP4C	Mx	.024	2.75
16	MP4C	X	0	4.75
17	MP4C	Z	50.912	4.75
18	MP4C	Mx	.024	4.75
19	MP2A	X	0	1.25
20	MP2A	Z	231.077	1.25
21	MP2A	Mx	.154	1.25
22	MP2A	X	0	6.25
23	MP2A	Z	231.077	6.25
24	MP2A	Mx	.154	6.25
25	MP2B	X	0	1.25
26	MP2B	Z	206.583	1.25
27	MP2B	Mx	-.172	1.25
28	MP2B	X	0	6.25
29	MP2B	Z	206.583	6.25
30	MP2B	Mx	-.172	6.25
31	MP2C	X	0	1.25
32	MP2C	Z	178.731	1.25
33	MP2C	Mx	.043	1.25
34	MP2C	X	0	6.25
35	MP2C	Z	178.731	6.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
36	MP2C	Mx	.043	6.25
37	MP2A	X	0	1.25
38	MP2A	Z	231.077	1.25
39	MP2A	Mx	-.154	1.25
40	MP2A	X	0	6.25
41	MP2A	Z	231.077	6.25
42	MP2A	Mx	-.154	6.25
43	MP2B	X	0	1.25
44	MP2B	Z	206.583	1.25
45	MP2B	Mx	.039	1.25
46	MP2B	X	0	6.25
47	MP2B	Z	206.583	6.25
48	MP2B	Mx	.039	6.25
49	MP2C	X	0	1.25
50	MP2C	Z	178.731	1.25
51	MP2C	Mx	.125	1.25
52	MP2C	X	0	6.25
53	MP2C	Z	178.731	6.25
54	MP2C	Mx	.125	6.25
55	M125	X	0	1.5
56	M125	Z	77.256	1.5
57	M125	Mx	0	1.5
58	MP1A	X	0	4.5
59	MP1A	Z	87.561	4.5
60	MP1A	Mx	0	4.5
61	MP1B	X	0	4.5
62	MP1B	Z	75.566	4.5
63	MP1B	Mx	.024	4.5
64	MP1C	X	0	4.5
65	MP1C	Z	61.926	4.5
66	MP1C	Mx	-.029	4.5
67	MP2A	X	0	4.5
68	MP2A	Z	87.561	4.5
69	MP2A	Mx	0	4.5
70	MP2B	X	0	4.5
71	MP2B	Z	70.971	4.5
72	MP2B	Mx	.023	4.5
73	MP2C	X	0	4.5
74	MP2C	Z	52.106	4.5
75	MP2C	Mx	-.024	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-46.649	2.75
2	MP4A	Z	80.798	2.75
3	MP4A	Mx	.023	2.75
4	MP4A	X	-46.649	4.75
5	MP4A	Z	80.798	4.75
6	MP4A	Mx	.023	4.75
7	MP4B	X	-25.456	2.75
8	MP4B	Z	44.091	2.75
9	MP4B	Mx	-.024	2.75
10	MP4B	X	-25.456	4.75
11	MP4B	Z	44.091	4.75
12	MP4B	Mx	-.024	4.75
13	MP4C	X	-41.186	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
14	MP4C	Z	71.336	2.75
15	MP4C	Mx	.026	2.75
16	MP4C	X	-41.186	4.75
17	MP4C	Z	71.336	4.75
18	MP4C	Mx	.026	4.75
19	MP2A	X	-108.128	1.25
20	MP2A	Z	187.284	1.25
21	MP2A	Mx	.179	1.25
22	MP2A	X	-108.128	6.25
23	MP2A	Z	187.284	6.25
24	MP2A	Mx	.179	6.25
25	MP2B	X	-89.365	1.25
26	MP2B	Z	154.785	1.25
27	MP2B	Mx	-.125	1.25
28	MP2B	X	-89.365	6.25
29	MP2B	Z	154.785	6.25
30	MP2B	Mx	-.125	6.25
31	MP2C	X	-103.292	1.25
32	MP2C	Z	178.907	1.25
33	MP2C	Mx	-.039	1.25
34	MP2C	X	-103.292	6.25
35	MP2C	Z	178.907	6.25
36	MP2C	Mx	-.039	6.25
37	MP2A	X	-108.128	1.25
38	MP2A	Z	187.284	1.25
39	MP2A	Mx	-.071	1.25
40	MP2A	X	-108.128	6.25
41	MP2A	Z	187.284	6.25
42	MP2A	Mx	-.071	6.25
43	MP2B	X	-89.365	1.25
44	MP2B	Z	154.785	1.25
45	MP2B	Mx	-.043	1.25
46	MP2B	X	-89.365	6.25
47	MP2B	Z	154.785	6.25
48	MP2B	Mx	-.043	6.25
49	MP2C	X	-103.292	1.25
50	MP2C	Z	178.907	1.25
51	MP2C	Mx	.172	1.25
52	MP2C	X	-103.292	6.25
53	MP2C	Z	178.907	6.25
54	MP2C	Mx	.172	6.25
55	M125	X	-40.41	1.5
56	M125	Z	69.992	1.5
57	M125	Mx	0	1.5
58	MP1A	X	-40.152	4.5
59	MP1A	Z	69.545	4.5
60	MP1A	Mx	-.02	4.5
61	MP1B	X	-30.963	4.5
62	MP1B	Z	53.629	4.5
63	MP1B	Mx	.029	4.5
64	MP1C	X	-37.783	4.5
65	MP1C	Z	65.442	4.5
66	MP1C	Mx	-.024	4.5
67	MP2A	X	-38.762	4.5
68	MP2A	Z	67.137	4.5
69	MP2A	Mx	-.019	4.5
70	MP2B	X	-26.053	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
71	MP2B	Z	45.125	4.5
72	MP2B	Mx	.024	4.5
73	MP2C	X	-35.486	4.5
74	MP2C	Z	61.463	4.5
75	MP2C	Mx	-.023	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-51.804	2.75
2	MP4A	Z	29.909	2.75
3	MP4A	Mx	.026	2.75
4	MP4A	X	-51.804	4.75
5	MP4A	Z	29.909	4.75
6	MP4A	Mx	.026	4.75
7	MP4B	X	-39.056	2.75
8	MP4B	Z	22.549	2.75
9	MP4B	Mx	-.022	2.75
10	MP4B	X	-39.056	4.75
11	MP4B	Z	22.549	4.75
12	MP4B	Mx	-.022	4.75
13	MP4C	X	-93.546	2.75
14	MP4C	Z	54.009	2.75
15	MP4C	Mx	.009	2.75
16	MP4C	X	-93.546	4.75
17	MP4C	Z	54.009	4.75
18	MP4C	Mx	.009	4.75
19	MP2A	X	-161.615	1.25
20	MP2A	Z	93.308	1.25
21	MP2A	Mx	.143	1.25
22	MP2A	X	-161.615	6.25
23	MP2A	Z	93.308	6.25
24	MP2A	Mx	.143	6.25
25	MP2B	X	-150.328	1.25
26	MP2B	Z	86.792	1.25
27	MP2B	Mx	-.065	1.25
28	MP2B	X	-150.328	6.25
29	MP2B	Z	86.792	6.25
30	MP2B	Mx	-.065	6.25
31	MP2C	X	-198.57	1.25
32	MP2C	Z	114.645	1.25
33	MP2C	Mx	-.131	1.25
34	MP2C	X	-198.57	6.25
35	MP2C	Z	114.645	6.25
36	MP2C	Mx	-.131	6.25
37	MP2A	X	-161.615	1.25
38	MP2A	Z	93.308	1.25
39	MP2A	Mx	.019	1.25
40	MP2A	X	-161.615	6.25
41	MP2A	Z	93.308	6.25
42	MP2A	Mx	.019	6.25
43	MP2B	X	-150.328	1.25
44	MP2B	Z	86.792	1.25
45	MP2B	Mx	-.106	1.25
46	MP2B	X	-150.328	6.25
47	MP2B	Z	86.792	6.25
48	MP2B	Mx	-.106	6.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
49	MP2C	X	-198.57	1.25
50	MP2C	Z	114.645	1.25
51	MP2C	Mx	.17	1.25
52	MP2C	X	-198.57	6.25
53	MP2C	Z	114.645	6.25
54	MP2C	Mx	.17	6.25
55	M125	X	-86.692	1.5
56	M125	Z	50.051	1.5
57	M125	Mx	0	1.5
58	MP1A	X	-56.974	4.5
59	MP1A	Z	32.894	4.5
60	MP1A	Mx	-.028	4.5
61	MP1B	X	-51.447	4.5
62	MP1B	Z	29.703	4.5
63	MP1B	Mx	.029	4.5
64	MP1C	X	-75.072	4.5
65	MP1C	Z	43.343	4.5
66	MP1C	Mx	-.008	4.5
67	MP2A	X	-49.751	4.5
68	MP2A	Z	28.724	4.5
69	MP2A	Mx	-.025	4.5
70	MP2B	X	-42.106	4.5
71	MP2B	Z	24.31	4.5
72	MP2B	Mx	.024	4.5
73	MP2C	X	-74.781	4.5
74	MP2C	Z	43.175	4.5
75	MP2C	Mx	-.007	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-43.079	2.75
2	MP4A	Z	0	2.75
3	MP4A	Mx	.022	2.75
4	MP4A	X	-43.079	4.75
5	MP4A	Z	0	4.75
6	MP4A	Mx	.022	4.75
7	MP4B	X	-70.744	2.75
8	MP4B	Z	0	2.75
9	MP4B	Mx	-.027	2.75
10	MP4B	X	-70.744	4.75
11	MP4B	Z	0	4.75
12	MP4B	Mx	-.027	4.75
13	MP4C	X	-102.204	2.75
14	MP4C	Z	0	2.75
15	MP4C	Mx	-.017	2.75
16	MP4C	X	-102.204	4.75
17	MP4C	Z	0	4.75
18	MP4C	Mx	-.017	4.75
19	MP2A	X	-171.796	1.25
20	MP2A	Z	0	1.25
21	MP2A	Mx	.086	1.25
22	MP2A	X	-171.796	6.25
23	MP2A	Z	0	6.25
24	MP2A	Mx	.086	6.25
25	MP2B	X	-196.29	1.25
26	MP2B	Z	0	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP2B	Mx	.009	1.25
28	MP2B	X	-196.29	6.25
29	MP2B	Z	0	6.25
30	MP2B	Mx	.009	6.25
31	MP2C	X	-224.142	1.25
32	MP2C	Z	0	1.25
33	MP2C	Mx	-.179	1.25
34	MP2C	X	-224.142	6.25
35	MP2C	Z	0	6.25
36	MP2C	Mx	-.179	6.25
37	MP2A	X	-171.796	1.25
38	MP2A	Z	0	1.25
39	MP2A	Mx	.086	1.25
40	MP2A	X	-171.796	6.25
41	MP2A	Z	0	6.25
42	MP2A	Mx	.086	6.25
43	MP2B	X	-196.29	1.25
44	MP2B	Z	0	1.25
45	MP2B	Mx	-.159	1.25
46	MP2B	X	-196.29	6.25
47	MP2B	Z	0	6.25
48	MP2B	Mx	-.159	6.25
49	MP2C	X	-224.142	1.25
50	MP2C	Z	0	1.25
51	MP2C	Mx	.102	1.25
52	MP2C	X	-224.142	6.25
53	MP2C	Z	0	6.25
54	MP2C	Mx	.102	6.25
55	M125	X	-115.823	1.5
56	M125	Z	0	1.5
57	M125	Mx	0	1.5
58	MP1A	X	-58.53	4.5
59	MP1A	Z	0	4.5
60	MP1A	Mx	-.029	4.5
61	MP1B	X	-70.525	4.5
62	MP1B	Z	0	4.5
63	MP1B	Mx	.027	4.5
64	MP1C	X	-84.165	4.5
65	MP1C	Z	0	4.5
66	MP1C	Mx	.014	4.5
67	MP2A	X	-47.409	4.5
68	MP2A	Z	0	4.5
69	MP2A	Mx	-.024	4.5
70	MP2B	X	-63.999	4.5
71	MP2B	Z	0	4.5
72	MP2B	Mx	.025	4.5
73	MP2C	X	-82.864	4.5
74	MP2C	Z	0	4.5
75	MP2C	Mx	.014	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-51.804	2.75
2	MP4A	Z	-29.909	2.75
3	MP4A	Mx	.026	2.75
4	MP4A	X	-51.804	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
5	MP4A	Z	-29.909	4.75
6	MP4A	Mx	.026	4.75
7	MP4B	X	-88.511	2.75
8	MP4B	Z	-51.102	2.75
9	MP4B	Mx	-.017	2.75
10	MP4B	X	-88.511	4.75
11	MP4B	Z	-51.102	4.75
12	MP4B	Mx	-.017	4.75
13	MP4C	X	-61.266	2.75
14	MP4C	Z	-35.372	2.75
15	MP4C	Mx	-.027	2.75
16	MP4C	X	-61.266	4.75
17	MP4C	Z	-35.372	4.75
18	MP4C	Mx	-.027	4.75
19	MP2A	X	-161.615	1.25
20	MP2A	Z	-93.308	1.25
21	MP2A	Mx	.019	1.25
22	MP2A	X	-161.615	6.25
23	MP2A	Z	-93.308	6.25
24	MP2A	Mx	.019	6.25
25	MP2B	X	-194.113	1.25
26	MP2B	Z	-112.071	1.25
27	MP2B	Mx	.102	1.25
28	MP2B	X	-194.113	6.25
29	MP2B	Z	-112.071	6.25
30	MP2B	Mx	.102	6.25
31	MP2C	X	-169.992	1.25
32	MP2C	Z	-98.145	1.25
33	MP2C	Mx	-.159	1.25
34	MP2C	X	-169.992	6.25
35	MP2C	Z	-98.145	6.25
36	MP2C	Mx	-.159	6.25
37	MP2A	X	-161.615	1.25
38	MP2A	Z	-93.308	1.25
39	MP2A	Mx	.143	1.25
40	MP2A	X	-161.615	6.25
41	MP2A	Z	-93.308	6.25
42	MP2A	Mx	.143	6.25
43	MP2B	X	-194.113	1.25
44	MP2B	Z	-112.071	1.25
45	MP2B	Mx	-.179	1.25
46	MP2B	X	-194.113	6.25
47	MP2B	Z	-112.071	6.25
48	MP2B	Mx	-.179	6.25
49	MP2C	X	-169.992	1.25
50	MP2C	Z	-98.145	1.25
51	MP2C	Mx	.009	1.25
52	MP2C	X	-169.992	6.25
53	MP2C	Z	-98.145	6.25
54	MP2C	Mx	.009	6.25
55	M125	X	-97.219	1.5
56	M125	Z	-56.13	1.5
57	M125	Mx	0	1.5
58	MP1A	X	-56.974	4.5
59	MP1A	Z	-32.894	4.5
60	MP1A	Mx	-.028	4.5
61	MP1B	X	-72.889	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
62	MP1B	Z	-42.082	4.5
63	MP1B	Mx	.014	4.5
64	MP1C	X	-61.076	4.5
65	MP1C	Z	-35.262	4.5
66	MP1C	Mx	.027	4.5
67	MP2A	X	-49.751	4.5
68	MP2A	Z	-28.724	4.5
69	MP2A	Mx	-.025	4.5
70	MP2B	X	-71.762	4.5
71	MP2B	Z	-41.432	4.5
72	MP2B	Mx	.014	4.5
73	MP2C	X	-55.425	4.5
74	MP2C	Z	-32	4.5
75	MP2C	Mx	.025	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-46.649	2.75
2	MP4A	Z	-80.798	2.75
3	MP4A	Mx	.023	2.75
4	MP4A	X	-46.649	4.75
5	MP4A	Z	-80.798	4.75
6	MP4A	Mx	.023	4.75
7	MP4B	X	-54.009	2.75
8	MP4B	Z	-93.546	2.75
9	MP4B	Mx	.009	2.75
10	MP4B	X	-54.009	4.75
11	MP4B	Z	-93.546	4.75
12	MP4B	Mx	.009	4.75
13	MP4C	X	-22.549	2.75
14	MP4C	Z	-39.056	2.75
15	MP4C	Mx	-.022	2.75
16	MP4C	X	-22.549	4.75
17	MP4C	Z	-39.056	4.75
18	MP4C	Mx	-.022	4.75
19	MP2A	X	-108.128	1.25
20	MP2A	Z	-187.284	1.25
21	MP2A	Mx	-.071	1.25
22	MP2A	X	-108.128	6.25
23	MP2A	Z	-187.284	6.25
24	MP2A	Mx	-.071	6.25
25	MP2B	X	-114.645	1.25
26	MP2B	Z	-198.57	1.25
27	MP2B	Mx	.17	1.25
28	MP2B	X	-114.645	6.25
29	MP2B	Z	-198.57	6.25
30	MP2B	Mx	.17	6.25
31	MP2C	X	-86.792	1.25
32	MP2C	Z	-150.328	1.25
33	MP2C	Mx	-.106	1.25
34	MP2C	X	-86.792	6.25
35	MP2C	Z	-150.328	6.25
36	MP2C	Mx	-.106	6.25
37	MP2A	X	-108.128	1.25
38	MP2A	Z	-187.284	1.25
39	MP2A	Mx	.179	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
40	MP2A	X	-108.128	6.25
41	MP2A	Z	-187.284	6.25
42	MP2A	Mx	.179	6.25
43	MP2B	X	-114.645	1.25
44	MP2B	Z	-198.57	1.25
45	MP2B	Mx	-.131	1.25
46	MP2B	X	-114.645	6.25
47	MP2B	Z	-198.57	6.25
48	MP2B	Mx	-.131	6.25
49	MP2C	X	-86.792	1.25
50	MP2C	Z	-150.328	1.25
51	MP2C	Mx	-.065	1.25
52	MP2C	X	-86.792	6.25
53	MP2C	Z	-150.328	6.25
54	MP2C	Mx	-.065	6.25
55	M125	X	-46.488	1.5
56	M125	Z	-80.52	1.5
57	M125	Mx	0	1.5
58	MP1A	X	-40.152	4.5
59	MP1A	Z	-69.545	4.5
60	MP1A	Mx	-.02	4.5
61	MP1B	X	-43.343	4.5
62	MP1B	Z	-75.072	4.5
63	MP1B	Mx	-.008	4.5
64	MP1C	X	-29.703	4.5
65	MP1C	Z	-51.447	4.5
66	MP1C	Mx	.029	4.5
67	MP2A	X	-38.762	4.5
68	MP2A	Z	-67.137	4.5
69	MP2A	Mx	-.019	4.5
70	MP2B	X	-43.175	4.5
71	MP2B	Z	-74.781	4.5
72	MP2B	Mx	-.007	4.5
73	MP2C	X	-24.31	4.5
74	MP2C	Z	-42.106	4.5
75	MP2C	Mx	.024	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	0	2.75
2	MP4A	Z	-20.601	2.75
3	MP4A	Mx	0	2.75
4	MP4A	X	0	4.75
5	MP4A	Z	-20.601	4.75
6	MP4A	Mx	0	4.75
7	MP4B	X	0	2.75
8	MP4B	Z	-15.723	2.75
9	MP4B	Mx	.005	2.75
10	MP4B	X	0	4.75
11	MP4B	Z	-15.723	4.75
12	MP4B	Mx	.005	4.75
13	MP4C	X	0	2.75
14	MP4C	Z	-10.175	2.75
15	MP4C	Mx	-.005	2.75
16	MP4C	X	0	4.75
17	MP4C	Z	-10.175	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP4C	Mx	-.005	4.75
19	MP2A	X	0	1.25
20	MP2A	Z	-41.727	1.25
21	MP2A	Mx	-.028	1.25
22	MP2A	X	0	6.25
23	MP2A	Z	-41.727	6.25
24	MP2A	Mx	-.028	6.25
25	MP2B	X	0	1.25
26	MP2B	Z	-37.535	1.25
27	MP2B	Mx	.031	1.25
28	MP2B	X	0	6.25
29	MP2B	Z	-37.535	6.25
30	MP2B	Mx	.031	6.25
31	MP2C	X	0	1.25
32	MP2C	Z	-32.768	1.25
33	MP2C	Mx	-.008	1.25
34	MP2C	X	0	6.25
35	MP2C	Z	-32.768	6.25
36	MP2C	Mx	-.008	6.25
37	MP2A	X	0	1.25
38	MP2A	Z	-41.727	1.25
39	MP2A	Mx	.028	1.25
40	MP2A	X	0	6.25
41	MP2A	Z	-41.727	6.25
42	MP2A	Mx	.028	6.25
43	MP2B	X	0	1.25
44	MP2B	Z	-37.535	1.25
45	MP2B	Mx	-.007	1.25
46	MP2B	X	0	6.25
47	MP2B	Z	-37.535	6.25
48	MP2B	Mx	-.007	6.25
49	MP2C	X	0	1.25
50	MP2C	Z	-32.768	1.25
51	MP2C	Mx	-.023	1.25
52	MP2C	X	0	6.25
53	MP2C	Z	-32.768	6.25
54	MP2C	Mx	-.023	6.25
55	M125	X	0	1.5
56	M125	Z	-15.598	1.5
57	M125	Mx	0	1.5
58	MP1A	X	0	4.5
59	MP1A	Z	-17.387	4.5
60	MP1A	Mx	0	4.5
61	MP1B	X	0	4.5
62	MP1B	Z	-15.205	4.5
63	MP1B	Mx	-.005	4.5
64	MP1C	X	0	4.5
65	MP1C	Z	-12.724	4.5
66	MP1C	Mx	.006	4.5
67	MP2A	X	0	4.5
68	MP2A	Z	-17.387	4.5
69	MP2A	Mx	0	4.5
70	MP2B	X	0	4.5
71	MP2B	Z	-14.376	4.5
72	MP2B	Mx	-.005	4.5
73	MP2C	X	0	4.5
74	MP2C	Z	-10.952	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
75	MP2C	Mx	.005	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	8.825	2.75
2	MP4A	Z	-15.285	2.75
3	MP4A	Mx	-.004	2.75
4	MP4A	X	8.825	4.75
5	MP4A	Z	-15.285	4.75
6	MP4A	Mx	-.004	4.75
7	MP4B	X	5.088	2.75
8	MP4B	Z	-8.812	2.75
9	MP4B	Mx	.005	2.75
10	MP4B	X	5.088	4.75
11	MP4B	Z	-8.812	4.75
12	MP4B	Mx	.005	4.75
13	MP4C	X	7.861	2.75
14	MP4C	Z	-13.616	2.75
15	MP4C	Mx	-.005	2.75
16	MP4C	X	7.861	4.75
17	MP4C	Z	-13.616	4.75
18	MP4C	Mx	-.005	4.75
19	MP2A	X	19.595	1.25
20	MP2A	Z	-33.94	1.25
21	MP2A	Mx	-.032	1.25
22	MP2A	X	19.595	6.25
23	MP2A	Z	-33.94	6.25
24	MP2A	Mx	-.032	6.25
25	MP2B	X	16.384	1.25
26	MP2B	Z	-28.378	1.25
27	MP2B	Mx	.023	1.25
28	MP2B	X	16.384	6.25
29	MP2B	Z	-28.378	6.25
30	MP2B	Mx	.023	6.25
31	MP2C	X	18.767	1.25
32	MP2C	Z	-32.506	1.25
33	MP2C	Mx	.007	1.25
34	MP2C	X	18.767	6.25
35	MP2C	Z	-32.506	6.25
36	MP2C	Mx	.007	6.25
37	MP2A	X	19.595	1.25
38	MP2A	Z	-33.94	1.25
39	MP2A	Mx	.013	1.25
40	MP2A	X	19.595	6.25
41	MP2A	Z	-33.94	6.25
42	MP2A	Mx	.013	6.25
43	MP2B	X	16.384	1.25
44	MP2B	Z	-28.378	1.25
45	MP2B	Mx	.008	1.25
46	MP2B	X	16.384	6.25
47	MP2B	Z	-28.378	6.25
48	MP2B	Mx	.008	6.25
49	MP2C	X	18.767	1.25
50	MP2C	Z	-32.506	1.25
51	MP2C	Mx	-.031	1.25
52	MP2C	X	18.767	6.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP2C	Z	-32.506	6.25
54	MP2C	Mx	-.031	6.25
55	M125	X	8.114	1.5
56	M125	Z	-14.054	1.5
57	M125	Mx	0	1.5
58	MP1A	X	8.033	4.5
59	MP1A	Z	-13.914	4.5
60	MP1A	Mx	.004	4.5
61	MP1B	X	6.362	4.5
62	MP1B	Z	-11.019	4.5
63	MP1B	Mx	-.006	4.5
64	MP1C	X	7.603	4.5
65	MP1C	Z	-13.168	4.5
66	MP1C	Mx	.005	4.5
67	MP2A	X	7.783	4.5
68	MP2A	Z	-13.48	4.5
69	MP2A	Mx	.004	4.5
70	MP2B	X	5.476	4.5
71	MP2B	Z	-9.485	4.5
72	MP2B	Mx	-.005	4.5
73	MP2C	X	7.188	4.5
74	MP2C	Z	-12.45	4.5
75	MP2C	Mx	.005	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	10.172	2.75
2	MP4A	Z	-5.873	2.75
3	MP4A	Mx	-.005	2.75
4	MP4A	X	10.172	4.75
5	MP4A	Z	-5.873	4.75
6	MP4A	Mx	-.005	4.75
7	MP4B	X	7.924	2.75
8	MP4B	Z	-4.575	2.75
9	MP4B	Mx	.005	2.75
10	MP4B	X	7.924	4.75
11	MP4B	Z	-4.575	4.75
12	MP4B	Mx	.005	4.75
13	MP4C	X	17.533	2.75
14	MP4C	Z	-10.123	2.75
15	MP4C	Mx	-.002	2.75
16	MP4C	X	17.533	4.75
17	MP4C	Z	-10.123	4.75
18	MP4C	Mx	-.002	4.75
19	MP2A	X	29.547	1.25
20	MP2A	Z	-17.059	1.25
21	MP2A	Mx	-.026	1.25
22	MP2A	X	29.547	6.25
23	MP2A	Z	-17.059	6.25
24	MP2A	Mx	-.026	6.25
25	MP2B	X	27.615	1.25
26	MP2B	Z	-15.943	1.25
27	MP2B	Mx	.012	1.25
28	MP2B	X	27.615	6.25
29	MP2B	Z	-15.943	6.25
30	MP2B	Mx	.012	6.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP2C	X	35.872	1.25
32	MP2C	Z	-20.711	1.25
33	MP2C	Mx	.024	1.25
34	MP2C	X	35.872	6.25
35	MP2C	Z	-20.711	6.25
36	MP2C	Mx	.024	6.25
37	MP2A	X	29.547	1.25
38	MP2A	Z	-17.059	1.25
39	MP2A	Mx	-.003	1.25
40	MP2A	X	29.547	6.25
41	MP2A	Z	-17.059	6.25
42	MP2A	Mx	-.003	6.25
43	MP2B	X	27.615	1.25
44	MP2B	Z	-15.943	1.25
45	MP2B	Mx	.019	1.25
46	MP2B	X	27.615	6.25
47	MP2B	Z	-15.943	6.25
48	MP2B	Mx	.019	6.25
49	MP2C	X	35.872	1.25
50	MP2C	Z	-20.711	1.25
51	MP2C	Mx	-.031	1.25
52	MP2C	X	35.872	6.25
53	MP2C	Z	-20.711	6.25
54	MP2C	Mx	-.031	6.25
55	M125	X	17.009	1.5
56	M125	Z	-9.82	1.5
57	M125	Mx	0	1.5
58	MP1A	X	11.628	4.5
59	MP1A	Z	-6.713	4.5
60	MP1A	Mx	.006	4.5
61	MP1B	X	10.622	4.5
62	MP1B	Z	-6.133	4.5
63	MP1B	Mx	-.006	4.5
64	MP1C	X	14.92	4.5
65	MP1C	Z	-8.614	4.5
66	MP1C	Mx	.001	4.5
67	MP2A	X	10.324	4.5
68	MP2A	Z	-5.961	4.5
69	MP2A	Mx	.005	4.5
70	MP2B	X	8.937	4.5
71	MP2B	Z	-5.16	4.5
72	MP2B	Mx	-.005	4.5
73	MP2C	X	14.867	4.5
74	MP2C	Z	-8.584	4.5
75	MP2C	Mx	.001	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	8.794	2.75
2	MP4A	Z	0	2.75
3	MP4A	Mx	-.004	2.75
4	MP4A	X	8.794	4.75
5	MP4A	Z	0	4.75
6	MP4A	Mx	-.004	4.75
7	MP4B	X	13.672	2.75
8	MP4B	Z	0	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
9	MP4B	Mx	.005	2.75
10	MP4B	X	13.672	4.75
11	MP4B	Z	0	4.75
12	MP4B	Mx	.005	4.75
13	MP4C	X	19.22	2.75
14	MP4C	Z	0	2.75
15	MP4C	Mx	.003	2.75
16	MP4C	X	19.22	4.75
17	MP4C	Z	0	4.75
18	MP4C	Mx	.003	4.75
19	MP2A	X	31.581	1.25
20	MP2A	Z	0	1.25
21	MP2A	Mx	-.016	1.25
22	MP2A	X	31.581	6.25
23	MP2A	Z	0	6.25
24	MP2A	Mx	-.016	6.25
25	MP2B	X	35.773	1.25
26	MP2B	Z	0	1.25
27	MP2B	Mx	-.002	1.25
28	MP2B	X	35.773	6.25
29	MP2B	Z	0	6.25
30	MP2B	Mx	-.002	6.25
31	MP2C	X	40.54	1.25
32	MP2C	Z	0	1.25
33	MP2C	Mx	.032	1.25
34	MP2C	X	40.54	6.25
35	MP2C	Z	0	6.25
36	MP2C	Mx	.032	6.25
37	MP2A	X	31.581	1.25
38	MP2A	Z	0	1.25
39	MP2A	Mx	-.016	1.25
40	MP2A	X	31.581	6.25
41	MP2A	Z	0	6.25
42	MP2A	Mx	-.016	6.25
43	MP2B	X	35.773	1.25
44	MP2B	Z	0	1.25
45	MP2B	Mx	.029	1.25
46	MP2B	X	35.773	6.25
47	MP2B	Z	0	6.25
48	MP2B	Mx	.029	6.25
49	MP2C	X	40.54	1.25
50	MP2C	Z	0	1.25
51	MP2C	Mx	-.018	1.25
52	MP2C	X	40.54	6.25
53	MP2C	Z	0	6.25
54	MP2C	Mx	-.018	6.25
55	M125	X	22.422	1.5
56	M125	Z	0	1.5
57	M125	Mx	0	1.5
58	MP1A	X	12.106	4.5
59	MP1A	Z	0	4.5
60	MP1A	Mx	.006	4.5
61	MP1B	X	14.288	4.5
62	MP1B	Z	0	4.5
63	MP1B	Mx	-.005	4.5
64	MP1C	X	16.769	4.5
65	MP1C	Z	0	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
66	MP1C	Mx	-.003	4.5
67	MP2A	X	10.1	4.5
68	MP2A	Z	0	4.5
69	MP2A	Mx	.005	4.5
70	MP2B	X	13.11	4.5
71	MP2B	Z	0	4.5
72	MP2B	Mx	-.005	4.5
73	MP2C	X	16.534	4.5
74	MP2C	Z	0	4.5
75	MP2C	Mx	-.003	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	10.172	2.75
2	MP4A	Z	5.873	2.75
3	MP4A	Mx	-.005	2.75
4	MP4A	X	10.172	4.75
5	MP4A	Z	5.873	4.75
6	MP4A	Mx	-.005	4.75
7	MP4B	X	16.645	2.75
8	MP4B	Z	9.61	2.75
9	MP4B	Mx	.003	2.75
10	MP4B	X	16.645	4.75
11	MP4B	Z	9.61	4.75
12	MP4B	Mx	.003	4.75
13	MP4C	X	11.841	2.75
14	MP4C	Z	6.836	2.75
15	MP4C	Mx	.005	2.75
16	MP4C	X	11.841	4.75
17	MP4C	Z	6.836	4.75
18	MP4C	Mx	.005	4.75
19	MP2A	X	29.547	1.25
20	MP2A	Z	17.059	1.25
21	MP2A	Mx	-.003	1.25
22	MP2A	X	29.547	6.25
23	MP2A	Z	17.059	6.25
24	MP2A	Mx	-.003	6.25
25	MP2B	X	35.109	1.25
26	MP2B	Z	20.27	1.25
27	MP2B	Mx	-.018	1.25
28	MP2B	X	35.109	6.25
29	MP2B	Z	20.27	6.25
30	MP2B	Mx	-.018	6.25
31	MP2C	X	30.98	1.25
32	MP2C	Z	17.887	1.25
33	MP2C	Mx	.029	1.25
34	MP2C	X	30.98	6.25
35	MP2C	Z	17.887	6.25
36	MP2C	Mx	.029	6.25
37	MP2A	X	29.547	1.25
38	MP2A	Z	17.059	1.25
39	MP2A	Mx	-.026	1.25
40	MP2A	X	29.547	6.25
41	MP2A	Z	17.059	6.25
42	MP2A	Mx	-.026	6.25
43	MP2B	X	35.109	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP2B	Z	20.27	1.25
45	MP2B	Mx	.032	1.25
46	MP2B	X	35.109	6.25
47	MP2B	Z	20.27	6.25
48	MP2B	Mx	.032	6.25
49	MP2C	X	30.98	1.25
50	MP2C	Z	17.887	1.25
51	MP2C	Mx	-.002	1.25
52	MP2C	X	30.98	6.25
53	MP2C	Z	17.887	6.25
54	MP2C	Mx	-.002	6.25
55	M125	X	18.872	1.5
56	M125	Z	10.896	1.5
57	M125	Mx	0	1.5
58	MP1A	X	11.628	4.5
59	MP1A	Z	6.713	4.5
60	MP1A	Mx	.006	4.5
61	MP1B	X	14.523	4.5
62	MP1B	Z	8.385	4.5
63	MP1B	Mx	-.003	4.5
64	MP1C	X	12.374	4.5
65	MP1C	Z	7.144	4.5
66	MP1C	Mx	-.005	4.5
67	MP2A	X	10.324	4.5
68	MP2A	Z	5.961	4.5
69	MP2A	Mx	.005	4.5
70	MP2B	X	14.319	4.5
71	MP2B	Z	8.267	4.5
72	MP2B	Mx	-.003	4.5
73	MP2C	X	11.354	4.5
74	MP2C	Z	6.555	4.5
75	MP2C	Mx	-.005	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	8.825	2.75
2	MP4A	Z	15.285	2.75
3	MP4A	Mx	-.004	2.75
4	MP4A	X	8.825	4.75
5	MP4A	Z	15.285	4.75
6	MP4A	Mx	-.004	4.75
7	MP4B	X	10.123	2.75
8	MP4B	Z	17.533	2.75
9	MP4B	Mx	-.002	2.75
10	MP4B	X	10.123	4.75
11	MP4B	Z	17.533	4.75
12	MP4B	Mx	-.002	4.75
13	MP4C	X	4.575	2.75
14	MP4C	Z	7.924	2.75
15	MP4C	Mx	.005	2.75
16	MP4C	X	4.575	4.75
17	MP4C	Z	7.924	4.75
18	MP4C	Mx	.005	4.75
19	MP2A	X	19.595	1.25
20	MP2A	Z	33.94	1.25
21	MP2A	Mx	.013	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP2A	X	19.595	6.25
23	MP2A	Z	33.94	6.25
24	MP2A	Mx	.013	6.25
25	MP2B	X	20.711	1.25
26	MP2B	Z	35.872	1.25
27	MP2B	Mx	-.031	1.25
28	MP2B	X	20.711	6.25
29	MP2B	Z	35.872	6.25
30	MP2B	Mx	-.031	6.25
31	MP2C	X	15.943	1.25
32	MP2C	Z	27.615	1.25
33	MP2C	Mx	.019	1.25
34	MP2C	X	15.943	6.25
35	MP2C	Z	27.615	6.25
36	MP2C	Mx	.019	6.25
37	MP2A	X	19.595	1.25
38	MP2A	Z	33.94	1.25
39	MP2A	Mx	-.032	1.25
40	MP2A	X	19.595	6.25
41	MP2A	Z	33.94	6.25
42	MP2A	Mx	-.032	6.25
43	MP2B	X	20.711	1.25
44	MP2B	Z	35.872	1.25
45	MP2B	Mx	.024	1.25
46	MP2B	X	20.711	6.25
47	MP2B	Z	35.872	6.25
48	MP2B	Mx	.024	6.25
49	MP2C	X	15.943	1.25
50	MP2C	Z	27.615	1.25
51	MP2C	Mx	.012	1.25
52	MP2C	X	15.943	6.25
53	MP2C	Z	27.615	6.25
54	MP2C	Mx	.012	6.25
55	M125	X	9.19	1.5
56	M125	Z	15.917	1.5
57	M125	Mx	0	1.5
58	MP1A	X	8.033	4.5
59	MP1A	Z	13.914	4.5
60	MP1A	Mx	.004	4.5
61	MP1B	X	8.614	4.5
62	MP1B	Z	14.92	4.5
63	MP1B	Mx	.001	4.5
64	MP1C	X	6.133	4.5
65	MP1C	Z	10.622	4.5
66	MP1C	Mx	-.006	4.5
67	MP2A	X	7.783	4.5
68	MP2A	Z	13.48	4.5
69	MP2A	Mx	.004	4.5
70	MP2B	X	8.584	4.5
71	MP2B	Z	14.867	4.5
72	MP2B	Mx	.001	4.5
73	MP2C	X	5.16	4.5
74	MP2C	Z	8.937	4.5
75	MP2C	Mx	-.005	4.5

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	0	2.75
2	MP4A	Z	20.601	2.75
3	MP4A	Mx	0	2.75
4	MP4A	X	0	4.75
5	MP4A	Z	20.601	4.75
6	MP4A	Mx	0	4.75
7	MP4B	X	0	2.75
8	MP4B	Z	15.723	2.75
9	MP4B	Mx	-.005	2.75
10	MP4B	X	0	4.75
11	MP4B	Z	15.723	4.75
12	MP4B	Mx	-.005	4.75
13	MP4C	X	0	2.75
14	MP4C	Z	10.175	2.75
15	MP4C	Mx	.005	2.75
16	MP4C	X	0	4.75
17	MP4C	Z	10.175	4.75
18	MP4C	Mx	.005	4.75
19	MP2A	X	0	1.25
20	MP2A	Z	41.727	1.25
21	MP2A	Mx	.028	1.25
22	MP2A	X	0	6.25
23	MP2A	Z	41.727	6.25
24	MP2A	Mx	.028	6.25
25	MP2B	X	0	1.25
26	MP2B	Z	37.535	1.25
27	MP2B	Mx	-.031	1.25
28	MP2B	X	0	6.25
29	MP2B	Z	37.535	6.25
30	MP2B	Mx	-.031	6.25
31	MP2C	X	0	1.25
32	MP2C	Z	32.768	1.25
33	MP2C	Mx	.008	1.25
34	MP2C	X	0	6.25
35	MP2C	Z	32.768	6.25
36	MP2C	Mx	.008	6.25
37	MP2A	X	0	1.25
38	MP2A	Z	41.727	1.25
39	MP2A	Mx	-.028	1.25
40	MP2A	X	0	6.25
41	MP2A	Z	41.727	6.25
42	MP2A	Mx	-.028	6.25
43	MP2B	X	0	1.25
44	MP2B	Z	37.535	1.25
45	MP2B	Mx	.007	1.25
46	MP2B	X	0	6.25
47	MP2B	Z	37.535	6.25
48	MP2B	Mx	.007	6.25
49	MP2C	X	0	1.25
50	MP2C	Z	32.768	1.25
51	MP2C	Mx	.023	1.25
52	MP2C	X	0	6.25
53	MP2C	Z	32.768	6.25
54	MP2C	Mx	.023	6.25
55	M125	X	0	1.5
56	M125	Z	15.598	1.5
57	M125	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP1A	X	0	4.5
59	MP1A	Z	17.387	4.5
60	MP1A	Mx	0	4.5
61	MP1B	X	0	4.5
62	MP1B	Z	15.205	4.5
63	MP1B	Mx	.005	4.5
64	MP1C	X	0	4.5
65	MP1C	Z	12.724	4.5
66	MP1C	Mx	-.006	4.5
67	MP2A	X	0	4.5
68	MP2A	Z	17.387	4.5
69	MP2A	Mx	0	4.5
70	MP2B	X	0	4.5
71	MP2B	Z	14.376	4.5
72	MP2B	Mx	.005	4.5
73	MP2C	X	0	4.5
74	MP2C	Z	10.952	4.5
75	MP2C	Mx	-.005	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-8.825	2.75
2	MP4A	Z	15.285	2.75
3	MP4A	Mx	.004	2.75
4	MP4A	X	-8.825	4.75
5	MP4A	Z	15.285	4.75
6	MP4A	Mx	.004	4.75
7	MP4B	X	-5.088	2.75
8	MP4B	Z	8.812	2.75
9	MP4B	Mx	-.005	2.75
10	MP4B	X	-5.088	4.75
11	MP4B	Z	8.812	4.75
12	MP4B	Mx	-.005	4.75
13	MP4C	X	-7.861	2.75
14	MP4C	Z	13.616	2.75
15	MP4C	Mx	.005	2.75
16	MP4C	X	-7.861	4.75
17	MP4C	Z	13.616	4.75
18	MP4C	Mx	.005	4.75
19	MP2A	X	-19.595	1.25
20	MP2A	Z	33.94	1.25
21	MP2A	Mx	.032	1.25
22	MP2A	X	-19.595	6.25
23	MP2A	Z	33.94	6.25
24	MP2A	Mx	.032	6.25
25	MP2B	X	-16.384	1.25
26	MP2B	Z	28.378	1.25
27	MP2B	Mx	-.023	1.25
28	MP2B	X	-16.384	6.25
29	MP2B	Z	28.378	6.25
30	MP2B	Mx	-.023	6.25
31	MP2C	X	-18.767	1.25
32	MP2C	Z	32.506	1.25
33	MP2C	Mx	-.007	1.25
34	MP2C	X	-18.767	6.25
35	MP2C	Z	32.506	6.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
36	MP2C	Mx	-.007	6.25
37	MP2A	X	-19.595	1.25
38	MP2A	Z	33.94	1.25
39	MP2A	Mx	-.013	1.25
40	MP2A	X	-19.595	6.25
41	MP2A	Z	33.94	6.25
42	MP2A	Mx	-.013	6.25
43	MP2B	X	-16.384	1.25
44	MP2B	Z	28.378	1.25
45	MP2B	Mx	-.008	1.25
46	MP2B	X	-16.384	6.25
47	MP2B	Z	28.378	6.25
48	MP2B	Mx	-.008	6.25
49	MP2C	X	-18.767	1.25
50	MP2C	Z	32.506	1.25
51	MP2C	Mx	.031	1.25
52	MP2C	X	-18.767	6.25
53	MP2C	Z	32.506	6.25
54	MP2C	Mx	.031	6.25
55	M125	X	-8.114	1.5
56	M125	Z	14.054	1.5
57	M125	Mx	0	1.5
58	MP1A	X	-8.033	4.5
59	MP1A	Z	13.914	4.5
60	MP1A	Mx	-.004	4.5
61	MP1B	X	-6.362	4.5
62	MP1B	Z	11.019	4.5
63	MP1B	Mx	.006	4.5
64	MP1C	X	-7.603	4.5
65	MP1C	Z	13.168	4.5
66	MP1C	Mx	-.005	4.5
67	MP2A	X	-7.783	4.5
68	MP2A	Z	13.48	4.5
69	MP2A	Mx	-.004	4.5
70	MP2B	X	-5.476	4.5
71	MP2B	Z	9.485	4.5
72	MP2B	Mx	.005	4.5
73	MP2C	X	-7.188	4.5
74	MP2C	Z	12.45	4.5
75	MP2C	Mx	-.005	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-10.172	2.75
2	MP4A	Z	5.873	2.75
3	MP4A	Mx	.005	2.75
4	MP4A	X	-10.172	4.75
5	MP4A	Z	5.873	4.75
6	MP4A	Mx	.005	4.75
7	MP4B	X	-7.924	2.75
8	MP4B	Z	4.575	2.75
9	MP4B	Mx	-.005	2.75
10	MP4B	X	-7.924	4.75
11	MP4B	Z	4.575	4.75
12	MP4B	Mx	-.005	4.75
13	MP4C	X	-17.533	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
14	MP4C	Z	10.123	2.75
15	MP4C	Mx	.002	2.75
16	MP4C	X	-17.533	4.75
17	MP4C	Z	10.123	4.75
18	MP4C	Mx	.002	4.75
19	MP2A	X	-29.547	1.25
20	MP2A	Z	17.059	1.25
21	MP2A	Mx	.026	1.25
22	MP2A	X	-29.547	6.25
23	MP2A	Z	17.059	6.25
24	MP2A	Mx	.026	6.25
25	MP2B	X	-27.615	1.25
26	MP2B	Z	15.943	1.25
27	MP2B	Mx	-.012	1.25
28	MP2B	X	-27.615	6.25
29	MP2B	Z	15.943	6.25
30	MP2B	Mx	-.012	6.25
31	MP2C	X	-35.872	1.25
32	MP2C	Z	20.711	1.25
33	MP2C	Mx	-.024	1.25
34	MP2C	X	-35.872	6.25
35	MP2C	Z	20.711	6.25
36	MP2C	Mx	-.024	6.25
37	MP2A	X	-29.547	1.25
38	MP2A	Z	17.059	1.25
39	MP2A	Mx	.003	1.25
40	MP2A	X	-29.547	6.25
41	MP2A	Z	17.059	6.25
42	MP2A	Mx	.003	6.25
43	MP2B	X	-27.615	1.25
44	MP2B	Z	15.943	1.25
45	MP2B	Mx	-.019	1.25
46	MP2B	X	-27.615	6.25
47	MP2B	Z	15.943	6.25
48	MP2B	Mx	-.019	6.25
49	MP2C	X	-35.872	1.25
50	MP2C	Z	20.711	1.25
51	MP2C	Mx	.031	1.25
52	MP2C	X	-35.872	6.25
53	MP2C	Z	20.711	6.25
54	MP2C	Mx	.031	6.25
55	M125	X	-17.009	1.5
56	M125	Z	9.82	1.5
57	M125	Mx	0	1.5
58	MP1A	X	-11.628	4.5
59	MP1A	Z	6.713	4.5
60	MP1A	Mx	-.006	4.5
61	MP1B	X	-10.622	4.5
62	MP1B	Z	6.133	4.5
63	MP1B	Mx	.006	4.5
64	MP1C	X	-14.92	4.5
65	MP1C	Z	8.614	4.5
66	MP1C	Mx	-.001	4.5
67	MP2A	X	-10.324	4.5
68	MP2A	Z	5.961	4.5
69	MP2A	Mx	-.005	4.5
70	MP2B	X	-8.937	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
71	MP2B	Z	5.16	4.5
72	MP2B	Mx	.005	4.5
73	MP2C	X	-14.867	4.5
74	MP2C	Z	8.584	4.5
75	MP2C	Mx	-.001	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-8.794	2.75
2	MP4A	Z	0	2.75
3	MP4A	Mx	.004	2.75
4	MP4A	X	-8.794	4.75
5	MP4A	Z	0	4.75
6	MP4A	Mx	.004	4.75
7	MP4B	X	-13.672	2.75
8	MP4B	Z	0	2.75
9	MP4B	Mx	-.005	2.75
10	MP4B	X	-13.672	4.75
11	MP4B	Z	0	4.75
12	MP4B	Mx	-.005	4.75
13	MP4C	X	-19.22	2.75
14	MP4C	Z	0	2.75
15	MP4C	Mx	-.003	2.75
16	MP4C	X	-19.22	4.75
17	MP4C	Z	0	4.75
18	MP4C	Mx	-.003	4.75
19	MP2A	X	-31.581	1.25
20	MP2A	Z	0	1.25
21	MP2A	Mx	.016	1.25
22	MP2A	X	-31.581	6.25
23	MP2A	Z	0	6.25
24	MP2A	Mx	.016	6.25
25	MP2B	X	-35.773	1.25
26	MP2B	Z	0	1.25
27	MP2B	Mx	.002	1.25
28	MP2B	X	-35.773	6.25
29	MP2B	Z	0	6.25
30	MP2B	Mx	.002	6.25
31	MP2C	X	-40.54	1.25
32	MP2C	Z	0	1.25
33	MP2C	Mx	-.032	1.25
34	MP2C	X	-40.54	6.25
35	MP2C	Z	0	6.25
36	MP2C	Mx	-.032	6.25
37	MP2A	X	-31.581	1.25
38	MP2A	Z	0	1.25
39	MP2A	Mx	.016	1.25
40	MP2A	X	-31.581	6.25
41	MP2A	Z	0	6.25
42	MP2A	Mx	.016	6.25
43	MP2B	X	-35.773	1.25
44	MP2B	Z	0	1.25
45	MP2B	Mx	-.029	1.25
46	MP2B	X	-35.773	6.25
47	MP2B	Z	0	6.25
48	MP2B	Mx	-.029	6.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
49	MP2C	X	-40.54	1.25
50	MP2C	Z	0	1.25
51	MP2C	Mx	.018	1.25
52	MP2C	X	-40.54	6.25
53	MP2C	Z	0	6.25
54	MP2C	Mx	.018	6.25
55	M125	X	-22.422	1.5
56	M125	Z	0	1.5
57	M125	Mx	0	1.5
58	MP1A	X	-12.106	4.5
59	MP1A	Z	0	4.5
60	MP1A	Mx	-.006	4.5
61	MP1B	X	-14.288	4.5
62	MP1B	Z	0	4.5
63	MP1B	Mx	.005	4.5
64	MP1C	X	-16.769	4.5
65	MP1C	Z	0	4.5
66	MP1C	Mx	.003	4.5
67	MP2A	X	-10.1	4.5
68	MP2A	Z	0	4.5
69	MP2A	Mx	-.005	4.5
70	MP2B	X	-13.11	4.5
71	MP2B	Z	0	4.5
72	MP2B	Mx	.005	4.5
73	MP2C	X	-16.534	4.5
74	MP2C	Z	0	4.5
75	MP2C	Mx	.003	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-10.172	2.75
2	MP4A	Z	-5.873	2.75
3	MP4A	Mx	.005	2.75
4	MP4A	X	-10.172	4.75
5	MP4A	Z	-5.873	4.75
6	MP4A	Mx	.005	4.75
7	MP4B	X	-16.645	2.75
8	MP4B	Z	-9.61	2.75
9	MP4B	Mx	-.003	2.75
10	MP4B	X	-16.645	4.75
11	MP4B	Z	-9.61	4.75
12	MP4B	Mx	-.003	4.75
13	MP4C	X	-11.841	2.75
14	MP4C	Z	-6.836	2.75
15	MP4C	Mx	-.005	2.75
16	MP4C	X	-11.841	4.75
17	MP4C	Z	-6.836	4.75
18	MP4C	Mx	-.005	4.75
19	MP2A	X	-29.547	1.25
20	MP2A	Z	-17.059	1.25
21	MP2A	Mx	.003	1.25
22	MP2A	X	-29.547	6.25
23	MP2A	Z	-17.059	6.25
24	MP2A	Mx	.003	6.25
25	MP2B	X	-35.109	1.25
26	MP2B	Z	-20.27	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP2B	Mx	.018	1.25
28	MP2B	X	-35.109	6.25
29	MP2B	Z	-20.27	6.25
30	MP2B	Mx	.018	6.25
31	MP2C	X	-30.98	1.25
32	MP2C	Z	-17.887	1.25
33	MP2C	Mx	-.029	1.25
34	MP2C	X	-30.98	6.25
35	MP2C	Z	-17.887	6.25
36	MP2C	Mx	-.029	6.25
37	MP2A	X	-29.547	1.25
38	MP2A	Z	-17.059	1.25
39	MP2A	Mx	.026	1.25
40	MP2A	X	-29.547	6.25
41	MP2A	Z	-17.059	6.25
42	MP2A	Mx	.026	6.25
43	MP2B	X	-35.109	1.25
44	MP2B	Z	-20.27	1.25
45	MP2B	Mx	-.032	1.25
46	MP2B	X	-35.109	6.25
47	MP2B	Z	-20.27	6.25
48	MP2B	Mx	-.032	6.25
49	MP2C	X	-30.98	1.25
50	MP2C	Z	-17.887	1.25
51	MP2C	Mx	.002	1.25
52	MP2C	X	-30.98	6.25
53	MP2C	Z	-17.887	6.25
54	MP2C	Mx	.002	6.25
55	M125	X	-18.872	1.5
56	M125	Z	-10.896	1.5
57	M125	Mx	0	1.5
58	MP1A	X	-11.628	4.5
59	MP1A	Z	-6.713	4.5
60	MP1A	Mx	-.006	4.5
61	MP1B	X	-14.523	4.5
62	MP1B	Z	-8.385	4.5
63	MP1B	Mx	.003	4.5
64	MP1C	X	-12.374	4.5
65	MP1C	Z	-7.144	4.5
66	MP1C	Mx	.005	4.5
67	MP2A	X	-10.324	4.5
68	MP2A	Z	-5.961	4.5
69	MP2A	Mx	-.005	4.5
70	MP2B	X	-14.319	4.5
71	MP2B	Z	-8.267	4.5
72	MP2B	Mx	.003	4.5
73	MP2C	X	-11.354	4.5
74	MP2C	Z	-6.555	4.5
75	MP2C	Mx	.005	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-8.825	2.75
2	MP4A	Z	-15.285	2.75
3	MP4A	Mx	.004	2.75
4	MP4A	X	-8.825	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
5	MP4A	Z	-15.285	4.75
6	MP4A	Mx	.004	4.75
7	MP4B	X	-10.123	2.75
8	MP4B	Z	-17.533	2.75
9	MP4B	Mx	.002	2.75
10	MP4B	X	-10.123	4.75
11	MP4B	Z	-17.533	4.75
12	MP4B	Mx	.002	4.75
13	MP4C	X	-4.575	2.75
14	MP4C	Z	-7.924	2.75
15	MP4C	Mx	-.005	2.75
16	MP4C	X	-4.575	4.75
17	MP4C	Z	-7.924	4.75
18	MP4C	Mx	-.005	4.75
19	MP2A	X	-19.595	1.25
20	MP2A	Z	-33.94	1.25
21	MP2A	Mx	-.013	1.25
22	MP2A	X	-19.595	6.25
23	MP2A	Z	-33.94	6.25
24	MP2A	Mx	-.013	6.25
25	MP2B	X	-20.711	1.25
26	MP2B	Z	-35.872	1.25
27	MP2B	Mx	.031	1.25
28	MP2B	X	-20.711	6.25
29	MP2B	Z	-35.872	6.25
30	MP2B	Mx	.031	6.25
31	MP2C	X	-15.943	1.25
32	MP2C	Z	-27.615	1.25
33	MP2C	Mx	-.019	1.25
34	MP2C	X	-15.943	6.25
35	MP2C	Z	-27.615	6.25
36	MP2C	Mx	-.019	6.25
37	MP2A	X	-19.595	1.25
38	MP2A	Z	-33.94	1.25
39	MP2A	Mx	.032	1.25
40	MP2A	X	-19.595	6.25
41	MP2A	Z	-33.94	6.25
42	MP2A	Mx	.032	6.25
43	MP2B	X	-20.711	1.25
44	MP2B	Z	-35.872	1.25
45	MP2B	Mx	-.024	1.25
46	MP2B	X	-20.711	6.25
47	MP2B	Z	-35.872	6.25
48	MP2B	Mx	-.024	6.25
49	MP2C	X	-15.943	1.25
50	MP2C	Z	-27.615	1.25
51	MP2C	Mx	-.012	1.25
52	MP2C	X	-15.943	6.25
53	MP2C	Z	-27.615	6.25
54	MP2C	Mx	-.012	6.25
55	M125	X	-9.19	1.5
56	M125	Z	-15.917	1.5
57	M125	Mx	0	1.5
58	MP1A	X	-8.033	4.5
59	MP1A	Z	-13.914	4.5
60	MP1A	Mx	-.004	4.5
61	MP1B	X	-8.614	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
62	MP1B	Z	-14.92	4.5
63	MP1B	Mx	-.001	4.5
64	MP1C	X	-6.133	4.5
65	MP1C	Z	-10.622	4.5
66	MP1C	Mx	.006	4.5
67	MP2A	X	-7.783	4.5
68	MP2A	Z	-13.48	4.5
69	MP2A	Mx	-.004	4.5
70	MP2B	X	-8.584	4.5
71	MP2B	Z	-14.867	4.5
72	MP2B	Mx	-.001	4.5
73	MP2C	X	-5.16	4.5
74	MP2C	Z	-8.937	4.5
75	MP2C	Mx	.005	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	0	2.75
2	MP4A	Z	-6.546	2.75
3	MP4A	Mx	0	2.75
4	MP4A	X	0	4.75
5	MP4A	Z	-6.546	4.75
6	MP4A	Mx	0	4.75
7	MP4B	X	0	2.75
8	MP4B	Z	-4.9	2.75
9	MP4B	Mx	.002	2.75
10	MP4B	X	0	4.75
11	MP4B	Z	-4.9	4.75
12	MP4B	Mx	.002	4.75
13	MP4C	X	0	2.75
14	MP4C	Z	-3.029	2.75
15	MP4C	Mx	-.001	2.75
16	MP4C	X	0	4.75
17	MP4C	Z	-3.029	4.75
18	MP4C	Mx	-.001	4.75
19	MP2A	X	0	1.25
20	MP2A	Z	-13.746	1.25
21	MP2A	Mx	-.009	1.25
22	MP2A	X	0	6.25
23	MP2A	Z	-13.746	6.25
24	MP2A	Mx	-.009	6.25
25	MP2B	X	0	1.25
26	MP2B	Z	-12.289	1.25
27	MP2B	Mx	.01	1.25
28	MP2B	X	0	6.25
29	MP2B	Z	-12.289	6.25
30	MP2B	Mx	.01	6.25
31	MP2C	X	0	1.25
32	MP2C	Z	-10.632	1.25
33	MP2C	Mx	-.003	1.25
34	MP2C	X	0	6.25
35	MP2C	Z	-10.632	6.25
36	MP2C	Mx	-.003	6.25
37	MP2A	X	0	1.25
38	MP2A	Z	-13.746	1.25
39	MP2A	Mx	.009	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
40	MP2A	X	0	6.25
41	MP2A	Z	-13.746	6.25
42	MP2A	Mx	.009	6.25
43	MP2B	X	0	1.25
44	MP2B	Z	-12.289	1.25
45	MP2B	Mx	-.002	1.25
46	MP2B	X	0	6.25
47	MP2B	Z	-12.289	6.25
48	MP2B	Mx	-.002	6.25
49	MP2C	X	0	1.25
50	MP2C	Z	-10.632	1.25
51	MP2C	Mx	-.007	1.25
52	MP2C	X	0	6.25
53	MP2C	Z	-10.632	6.25
54	MP2C	Mx	-.007	6.25
55	M125	X	0	1.5
56	M125	Z	-4.596	1.5
57	M125	Mx	0	1.5
58	MP1A	X	0	4.5
59	MP1A	Z	-5.209	4.5
60	MP1A	Mx	0	4.5
61	MP1B	X	0	4.5
62	MP1B	Z	-4.495	4.5
63	MP1B	Mx	-.001	4.5
64	MP1C	X	0	4.5
65	MP1C	Z	-3.684	4.5
66	MP1C	Mx	.002	4.5
67	MP2A	X	0	4.5
68	MP2A	Z	-5.209	4.5
69	MP2A	Mx	0	4.5
70	MP2B	X	0	4.5
71	MP2B	Z	-4.222	4.5
72	MP2B	Mx	-.001	4.5
73	MP2C	X	0	4.5
74	MP2C	Z	-3.1	4.5
75	MP2C	Mx	.001	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	2.775	2.75
2	MP4A	Z	-4.807	2.75
3	MP4A	Mx	-.001	2.75
4	MP4A	X	2.775	4.75
5	MP4A	Z	-4.807	4.75
6	MP4A	Mx	-.001	4.75
7	MP4B	X	1.514	2.75
8	MP4B	Z	-2.623	2.75
9	MP4B	Mx	.001	2.75
10	MP4B	X	1.514	4.75
11	MP4B	Z	-2.623	4.75
12	MP4B	Mx	.001	4.75
13	MP4C	X	2.45	2.75
14	MP4C	Z	-4.244	2.75
15	MP4C	Mx	-.002	2.75
16	MP4C	X	2.45	4.75
17	MP4C	Z	-4.244	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP4C	Mx	-.002	4.75
19	MP2A	X	6.432	1.25
20	MP2A	Z	-11.141	1.25
21	MP2A	Mx	-.011	1.25
22	MP2A	X	6.432	6.25
23	MP2A	Z	-11.141	6.25
24	MP2A	Mx	-.011	6.25
25	MP2B	X	5.316	1.25
26	MP2B	Z	-9.208	1.25
27	MP2B	Mx	.007	1.25
28	MP2B	X	5.316	6.25
29	MP2B	Z	-9.208	6.25
30	MP2B	Mx	.007	6.25
31	MP2C	X	6.145	1.25
32	MP2C	Z	-10.643	1.25
33	MP2C	Mx	.002	1.25
34	MP2C	X	6.145	6.25
35	MP2C	Z	-10.643	6.25
36	MP2C	Mx	.002	6.25
37	MP2A	X	6.432	1.25
38	MP2A	Z	-11.141	1.25
39	MP2A	Mx	.004	1.25
40	MP2A	X	6.432	6.25
41	MP2A	Z	-11.141	6.25
42	MP2A	Mx	.004	6.25
43	MP2B	X	5.316	1.25
44	MP2B	Z	-9.208	1.25
45	MP2B	Mx	.003	1.25
46	MP2B	X	5.316	6.25
47	MP2B	Z	-9.208	6.25
48	MP2B	Mx	.003	6.25
49	MP2C	X	6.145	1.25
50	MP2C	Z	-10.643	1.25
51	MP2C	Mx	-.01	1.25
52	MP2C	X	6.145	6.25
53	MP2C	Z	-10.643	6.25
54	MP2C	Mx	-.01	6.25
55	M125	X	2.404	1.5
56	M125	Z	-4.164	1.5
57	M125	Mx	0	1.5
58	MP1A	X	2.389	4.5
59	MP1A	Z	-4.137	4.5
60	MP1A	Mx	.001	4.5
61	MP1B	X	1.842	4.5
62	MP1B	Z	-3.19	4.5
63	MP1B	Mx	-.002	4.5
64	MP1C	X	2.248	4.5
65	MP1C	Z	-3.893	4.5
66	MP1C	Mx	.001	4.5
67	MP2A	X	2.306	4.5
68	MP2A	Z	-3.994	4.5
69	MP2A	Mx	.001	4.5
70	MP2B	X	1.55	4.5
71	MP2B	Z	-2.684	4.5
72	MP2B	Mx	-.001	4.5
73	MP2C	X	2.111	4.5
74	MP2C	Z	-3.656	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
75	MP2C	Mx	.001	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	3.082	2.75
2	MP4A	Z	-1.779	2.75
3	MP4A	Mx	-.002	2.75
4	MP4A	X	3.082	4.75
5	MP4A	Z	-1.779	4.75
6	MP4A	Mx	-.002	4.75
7	MP4B	X	2.323	2.75
8	MP4B	Z	-1.341	2.75
9	MP4B	Mx	.001	2.75
10	MP4B	X	2.323	4.75
11	MP4B	Z	-1.341	4.75
12	MP4B	Mx	.001	4.75
13	MP4C	X	5.565	2.75
14	MP4C	Z	-3.213	2.75
15	MP4C	Mx	-.000558	2.75
16	MP4C	X	5.565	4.75
17	MP4C	Z	-3.213	4.75
18	MP4C	Mx	-.000558	4.75
19	MP2A	X	9.614	1.25
20	MP2A	Z	-5.551	1.25
21	MP2A	Mx	-.009	1.25
22	MP2A	X	9.614	6.25
23	MP2A	Z	-5.551	6.25
24	MP2A	Mx	-.009	6.25
25	MP2B	X	8.943	1.25
26	MP2B	Z	-5.163	1.25
27	MP2B	Mx	.004	1.25
28	MP2B	X	8.943	6.25
29	MP2B	Z	-5.163	6.25
30	MP2B	Mx	.004	6.25
31	MP2C	X	11.813	1.25
32	MP2C	Z	-6.82	1.25
33	MP2C	Mx	.008	1.25
34	MP2C	X	11.813	6.25
35	MP2C	Z	-6.82	6.25
36	MP2C	Mx	.008	6.25
37	MP2A	X	9.614	1.25
38	MP2A	Z	-5.551	1.25
39	MP2A	Mx	-.001	1.25
40	MP2A	X	9.614	6.25
41	MP2A	Z	-5.551	6.25
42	MP2A	Mx	-.001	6.25
43	MP2B	X	8.943	1.25
44	MP2B	Z	-5.163	1.25
45	MP2B	Mx	.006	1.25
46	MP2B	X	8.943	6.25
47	MP2B	Z	-5.163	6.25
48	MP2B	Mx	.006	6.25
49	MP2C	X	11.813	1.25
50	MP2C	Z	-6.82	1.25
51	MP2C	Mx	-.01	1.25
52	MP2C	X	11.813	6.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP2C	Z	-6.82	6.25
54	MP2C	Mx	-.01	6.25
55	M125	X	5.157	1.5
56	M125	Z	-2.977	1.5
57	M125	Mx	0	1.5
58	MP1A	X	3.389	4.5
59	MP1A	Z	-1.957	4.5
60	MP1A	Mx	.002	4.5
61	MP1B	X	3.06	4.5
62	MP1B	Z	-1.767	4.5
63	MP1B	Mx	-.002	4.5
64	MP1C	X	4.466	4.5
65	MP1C	Z	-2.578	4.5
66	MP1C	Mx	.000448	4.5
67	MP2A	X	2.96	4.5
68	MP2A	Z	-1.709	4.5
69	MP2A	Mx	.001	4.5
70	MP2B	X	2.505	4.5
71	MP2B	Z	-1.446	4.5
72	MP2B	Mx	-.001	4.5
73	MP2C	X	4.449	4.5
74	MP2C	Z	-2.568	4.5
75	MP2C	Mx	.000446	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	2.563	2.75
2	MP4A	Z	0	2.75
3	MP4A	Mx	-.001	2.75
4	MP4A	X	2.563	4.75
5	MP4A	Z	0	4.75
6	MP4A	Mx	-.001	4.75
7	MP4B	X	4.208	2.75
8	MP4B	Z	0	2.75
9	MP4B	Mx	.002	2.75
10	MP4B	X	4.208	4.75
11	MP4B	Z	0	4.75
12	MP4B	Mx	.002	4.75
13	MP4C	X	6.08	2.75
14	MP4C	Z	0	2.75
15	MP4C	Mx	.001	2.75
16	MP4C	X	6.08	4.75
17	MP4C	Z	0	4.75
18	MP4C	Mx	.001	4.75
19	MP2A	X	10.22	1.25
20	MP2A	Z	0	1.25
21	MP2A	Mx	-.005	1.25
22	MP2A	X	10.22	6.25
23	MP2A	Z	0	6.25
24	MP2A	Mx	-.005	6.25
25	MP2B	X	11.677	1.25
26	MP2B	Z	0	1.25
27	MP2B	Mx	-.000531	1.25
28	MP2B	X	11.677	6.25
29	MP2B	Z	0	6.25
30	MP2B	Mx	-.000531	6.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP2C	X	13.334	1.25
32	MP2C	Z	0	1.25
33	MP2C	Mx	.011	1.25
34	MP2C	X	13.334	6.25
35	MP2C	Z	0	6.25
36	MP2C	Mx	.011	6.25
37	MP2A	X	10.22	1.25
38	MP2A	Z	0	1.25
39	MP2A	Mx	-.005	1.25
40	MP2A	X	10.22	6.25
41	MP2A	Z	0	6.25
42	MP2A	Mx	-.005	6.25
43	MP2B	X	11.677	1.25
44	MP2B	Z	0	1.25
45	MP2B	Mx	.009	1.25
46	MP2B	X	11.677	6.25
47	MP2B	Z	0	6.25
48	MP2B	Mx	.009	6.25
49	MP2C	X	13.334	1.25
50	MP2C	Z	0	1.25
51	MP2C	Mx	-.006	1.25
52	MP2C	X	13.334	6.25
53	MP2C	Z	0	6.25
54	MP2C	Mx	-.006	6.25
55	M125	X	6.89	1.5
56	M125	Z	0	1.5
57	M125	Mx	0	1.5
58	MP1A	X	3.482	4.5
59	MP1A	Z	0	4.5
60	MP1A	Mx	.002	4.5
61	MP1B	X	4.195	4.5
62	MP1B	Z	0	4.5
63	MP1B	Mx	-.002	4.5
64	MP1C	X	5.007	4.5
65	MP1C	Z	0	4.5
66	MP1C	Mx	-.000856	4.5
67	MP2A	X	2.82	4.5
68	MP2A	Z	0	4.5
69	MP2A	Mx	.001	4.5
70	MP2B	X	3.807	4.5
71	MP2B	Z	0	4.5
72	MP2B	Mx	-.001	4.5
73	MP2C	X	4.929	4.5
74	MP2C	Z	0	4.5
75	MP2C	Mx	-.000843	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	3.082	2.75
2	MP4A	Z	1.779	2.75
3	MP4A	Mx	-.002	2.75
4	MP4A	X	3.082	4.75
5	MP4A	Z	1.779	4.75
6	MP4A	Mx	-.002	4.75
7	MP4B	X	5.265	2.75
8	MP4B	Z	3.04	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
9	MP4B	Mx	.001	2.75
10	MP4B	X	5.265	4.75
11	MP4B	Z	3.04	4.75
12	MP4B	Mx	.001	4.75
13	MP4C	X	3.645	2.75
14	MP4C	Z	2.104	2.75
15	MP4C	Mx	.002	2.75
16	MP4C	X	3.645	4.75
17	MP4C	Z	2.104	4.75
18	MP4C	Mx	.002	4.75
19	MP2A	X	9.614	1.25
20	MP2A	Z	5.551	1.25
21	MP2A	Mx	-.001	1.25
22	MP2A	X	9.614	6.25
23	MP2A	Z	5.551	6.25
24	MP2A	Mx	-.001	6.25
25	MP2B	X	11.547	1.25
26	MP2B	Z	6.667	1.25
27	MP2B	Mx	-.006	1.25
28	MP2B	X	11.547	6.25
29	MP2B	Z	6.667	6.25
30	MP2B	Mx	-.006	6.25
31	MP2C	X	10.113	1.25
32	MP2C	Z	5.838	1.25
33	MP2C	Mx	.009	1.25
34	MP2C	X	10.113	6.25
35	MP2C	Z	5.838	6.25
36	MP2C	Mx	.009	6.25
37	MP2A	X	9.614	1.25
38	MP2A	Z	5.551	1.25
39	MP2A	Mx	-.009	1.25
40	MP2A	X	9.614	6.25
41	MP2A	Z	5.551	6.25
42	MP2A	Mx	-.009	6.25
43	MP2B	X	11.547	1.25
44	MP2B	Z	6.667	1.25
45	MP2B	Mx	.011	1.25
46	MP2B	X	11.547	6.25
47	MP2B	Z	6.667	6.25
48	MP2B	Mx	.011	6.25
49	MP2C	X	10.113	1.25
50	MP2C	Z	5.838	1.25
51	MP2C	Mx	-.000532	1.25
52	MP2C	X	10.113	6.25
53	MP2C	Z	5.838	6.25
54	MP2C	Mx	-.000532	6.25
55	M125	X	5.783	1.5
56	M125	Z	3.339	1.5
57	M125	Mx	0	1.5
58	MP1A	X	3.389	4.5
59	MP1A	Z	1.957	4.5
60	MP1A	Mx	.002	4.5
61	MP1B	X	4.336	4.5
62	MP1B	Z	2.503	4.5
63	MP1B	Mx	-.000856	4.5
64	MP1C	X	3.633	4.5
65	MP1C	Z	2.098	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
66	MP1C	Mx	-.002	4.5
67	MP2A	X	2.96	4.5
68	MP2A	Z	1.709	4.5
69	MP2A	Mx	.001	4.5
70	MP2B	X	4.269	4.5
71	MP2B	Z	2.465	4.5
72	MP2B	Mx	-.000843	4.5
73	MP2C	X	3.297	4.5
74	MP2C	Z	1.904	4.5
75	MP2C	Mx	-.001	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	2.775	2.75
2	MP4A	Z	4.807	2.75
3	MP4A	Mx	-.001	2.75
4	MP4A	X	2.775	4.75
5	MP4A	Z	4.807	4.75
6	MP4A	Mx	-.001	4.75
7	MP4B	X	3.213	2.75
8	MP4B	Z	5.565	2.75
9	MP4B	Mx	-.000558	2.75
10	MP4B	X	3.213	4.75
11	MP4B	Z	5.565	4.75
12	MP4B	Mx	-.000558	4.75
13	MP4C	X	1.341	2.75
14	MP4C	Z	2.323	2.75
15	MP4C	Mx	.001	2.75
16	MP4C	X	1.341	4.75
17	MP4C	Z	2.323	4.75
18	MP4C	Mx	.001	4.75
19	MP2A	X	6.432	1.25
20	MP2A	Z	11.141	1.25
21	MP2A	Mx	.004	1.25
22	MP2A	X	6.432	6.25
23	MP2A	Z	11.141	6.25
24	MP2A	Mx	.004	6.25
25	MP2B	X	6.82	1.25
26	MP2B	Z	11.813	1.25
27	MP2B	Mx	-.01	1.25
28	MP2B	X	6.82	6.25
29	MP2B	Z	11.813	6.25
30	MP2B	Mx	-.01	6.25
31	MP2C	X	5.163	1.25
32	MP2C	Z	8.943	1.25
33	MP2C	Mx	.006	1.25
34	MP2C	X	5.163	6.25
35	MP2C	Z	8.943	6.25
36	MP2C	Mx	.006	6.25
37	MP2A	X	6.432	1.25
38	MP2A	Z	11.141	1.25
39	MP2A	Mx	-.011	1.25
40	MP2A	X	6.432	6.25
41	MP2A	Z	11.141	6.25
42	MP2A	Mx	-.011	6.25
43	MP2B	X	6.82	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP2B	Z	11.813	1.25
45	MP2B	Mx	.008	1.25
46	MP2B	X	6.82	6.25
47	MP2B	Z	11.813	6.25
48	MP2B	Mx	.008	6.25
49	MP2C	X	5.163	1.25
50	MP2C	Z	8.943	1.25
51	MP2C	Mx	.004	1.25
52	MP2C	X	5.163	6.25
53	MP2C	Z	8.943	6.25
54	MP2C	Mx	.004	6.25
55	M125	X	2.765	1.5
56	M125	Z	4.79	1.5
57	M125	Mx	0	1.5
58	MP1A	X	2.389	4.5
59	MP1A	Z	4.137	4.5
60	MP1A	Mx	.001	4.5
61	MP1B	X	2.578	4.5
62	MP1B	Z	4.466	4.5
63	MP1B	Mx	.000448	4.5
64	MP1C	X	1.767	4.5
65	MP1C	Z	3.06	4.5
66	MP1C	Mx	-.002	4.5
67	MP2A	X	2.306	4.5
68	MP2A	Z	3.994	4.5
69	MP2A	Mx	.001	4.5
70	MP2B	X	2.568	4.5
71	MP2B	Z	4.449	4.5
72	MP2B	Mx	.000446	4.5
73	MP2C	X	1.446	4.5
74	MP2C	Z	2.505	4.5
75	MP2C	Mx	-.001	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	0	2.75
2	MP4A	Z	6.546	2.75
3	MP4A	Mx	0	2.75
4	MP4A	X	0	4.75
5	MP4A	Z	6.546	4.75
6	MP4A	Mx	0	4.75
7	MP4B	X	0	2.75
8	MP4B	Z	4.9	2.75
9	MP4B	Mx	-.002	2.75
10	MP4B	X	0	4.75
11	MP4B	Z	4.9	4.75
12	MP4B	Mx	-.002	4.75
13	MP4C	X	0	2.75
14	MP4C	Z	3.029	2.75
15	MP4C	Mx	.001	2.75
16	MP4C	X	0	4.75
17	MP4C	Z	3.029	4.75
18	MP4C	Mx	.001	4.75
19	MP2A	X	0	1.25
20	MP2A	Z	13.746	1.25
21	MP2A	Mx	.009	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP2A	X	0	6.25
23	MP2A	Z	13.746	6.25
24	MP2A	Mx	.009	6.25
25	MP2B	X	0	1.25
26	MP2B	Z	12.289	1.25
27	MP2B	Mx	-.01	1.25
28	MP2B	X	0	6.25
29	MP2B	Z	12.289	6.25
30	MP2B	Mx	-.01	6.25
31	MP2C	X	0	1.25
32	MP2C	Z	10.632	1.25
33	MP2C	Mx	.003	1.25
34	MP2C	X	0	6.25
35	MP2C	Z	10.632	6.25
36	MP2C	Mx	.003	6.25
37	MP2A	X	0	1.25
38	MP2A	Z	13.746	1.25
39	MP2A	Mx	-.009	1.25
40	MP2A	X	0	6.25
41	MP2A	Z	13.746	6.25
42	MP2A	Mx	-.009	6.25
43	MP2B	X	0	1.25
44	MP2B	Z	12.289	1.25
45	MP2B	Mx	.002	1.25
46	MP2B	X	0	6.25
47	MP2B	Z	12.289	6.25
48	MP2B	Mx	.002	6.25
49	MP2C	X	0	1.25
50	MP2C	Z	10.632	1.25
51	MP2C	Mx	.007	1.25
52	MP2C	X	0	6.25
53	MP2C	Z	10.632	6.25
54	MP2C	Mx	.007	6.25
55	M125	X	0	1.5
56	M125	Z	4.596	1.5
57	M125	Mx	0	1.5
58	MP1A	X	0	4.5
59	MP1A	Z	5.209	4.5
60	MP1A	Mx	0	4.5
61	MP1B	X	0	4.5
62	MP1B	Z	4.495	4.5
63	MP1B	Mx	.001	4.5
64	MP1C	X	0	4.5
65	MP1C	Z	3.684	4.5
66	MP1C	Mx	-.002	4.5
67	MP2A	X	0	4.5
68	MP2A	Z	5.209	4.5
69	MP2A	Mx	0	4.5
70	MP2B	X	0	4.5
71	MP2B	Z	4.222	4.5
72	MP2B	Mx	.001	4.5
73	MP2C	X	0	4.5
74	MP2C	Z	3.1	4.5
75	MP2C	Mx	-.001	4.5

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-2.775	2.75
2	MP4A	Z	4.807	2.75
3	MP4A	Mx	.001	2.75
4	MP4A	X	-2.775	4.75
5	MP4A	Z	4.807	4.75
6	MP4A	Mx	.001	4.75
7	MP4B	X	-1.514	2.75
8	MP4B	Z	2.623	2.75
9	MP4B	Mx	-.001	2.75
10	MP4B	X	-1.514	4.75
11	MP4B	Z	2.623	4.75
12	MP4B	Mx	-.001	4.75
13	MP4C	X	-2.45	2.75
14	MP4C	Z	4.244	2.75
15	MP4C	Mx	.002	2.75
16	MP4C	X	-2.45	4.75
17	MP4C	Z	4.244	4.75
18	MP4C	Mx	.002	4.75
19	MP2A	X	-6.432	1.25
20	MP2A	Z	11.141	1.25
21	MP2A	Mx	.011	1.25
22	MP2A	X	-6.432	6.25
23	MP2A	Z	11.141	6.25
24	MP2A	Mx	.011	6.25
25	MP2B	X	-5.316	1.25
26	MP2B	Z	9.208	1.25
27	MP2B	Mx	-.007	1.25
28	MP2B	X	-5.316	6.25
29	MP2B	Z	9.208	6.25
30	MP2B	Mx	-.007	6.25
31	MP2C	X	-6.145	1.25
32	MP2C	Z	10.643	1.25
33	MP2C	Mx	-.002	1.25
34	MP2C	X	-6.145	6.25
35	MP2C	Z	10.643	6.25
36	MP2C	Mx	-.002	6.25
37	MP2A	X	-6.432	1.25
38	MP2A	Z	11.141	1.25
39	MP2A	Mx	-.004	1.25
40	MP2A	X	-6.432	6.25
41	MP2A	Z	11.141	6.25
42	MP2A	Mx	-.004	6.25
43	MP2B	X	-5.316	1.25
44	MP2B	Z	9.208	1.25
45	MP2B	Mx	-.003	1.25
46	MP2B	X	-5.316	6.25
47	MP2B	Z	9.208	6.25
48	MP2B	Mx	-.003	6.25
49	MP2C	X	-6.145	1.25
50	MP2C	Z	10.643	1.25
51	MP2C	Mx	.01	1.25
52	MP2C	X	-6.145	6.25
53	MP2C	Z	10.643	6.25
54	MP2C	Mx	.01	6.25
55	M125	X	-2.404	1.5
56	M125	Z	4.164	1.5
57	M125	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP1A	X	-2.389	4.5
59	MP1A	Z	4.137	4.5
60	MP1A	Mx	-.001	4.5
61	MP1B	X	-1.842	4.5
62	MP1B	Z	3.19	4.5
63	MP1B	Mx	.002	4.5
64	MP1C	X	-2.248	4.5
65	MP1C	Z	3.893	4.5
66	MP1C	Mx	-.001	4.5
67	MP2A	X	-2.306	4.5
68	MP2A	Z	3.994	4.5
69	MP2A	Mx	-.001	4.5
70	MP2B	X	-1.55	4.5
71	MP2B	Z	2.684	4.5
72	MP2B	Mx	.001	4.5
73	MP2C	X	-2.111	4.5
74	MP2C	Z	3.656	4.5
75	MP2C	Mx	-.001	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-3.082	2.75
2	MP4A	Z	1.779	2.75
3	MP4A	Mx	.002	2.75
4	MP4A	X	-3.082	4.75
5	MP4A	Z	1.779	4.75
6	MP4A	Mx	.002	4.75
7	MP4B	X	-2.323	2.75
8	MP4B	Z	1.341	2.75
9	MP4B	Mx	-.001	2.75
10	MP4B	X	-2.323	4.75
11	MP4B	Z	1.341	4.75
12	MP4B	Mx	-.001	4.75
13	MP4C	X	-5.565	2.75
14	MP4C	Z	3.213	2.75
15	MP4C	Mx	.000558	2.75
16	MP4C	X	-5.565	4.75
17	MP4C	Z	3.213	4.75
18	MP4C	Mx	.000558	4.75
19	MP2A	X	-9.614	1.25
20	MP2A	Z	5.551	1.25
21	MP2A	Mx	.009	1.25
22	MP2A	X	-9.614	6.25
23	MP2A	Z	5.551	6.25
24	MP2A	Mx	.009	6.25
25	MP2B	X	-8.943	1.25
26	MP2B	Z	5.163	1.25
27	MP2B	Mx	-.004	1.25
28	MP2B	X	-8.943	6.25
29	MP2B	Z	5.163	6.25
30	MP2B	Mx	-.004	6.25
31	MP2C	X	-11.813	1.25
32	MP2C	Z	6.82	1.25
33	MP2C	Mx	-.008	1.25
34	MP2C	X	-11.813	6.25
35	MP2C	Z	6.82	6.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
36	MP2C	Mx	-.008	6.25
37	MP2A	X	-9.614	1.25
38	MP2A	Z	5.551	1.25
39	MP2A	Mx	.001	1.25
40	MP2A	X	-9.614	6.25
41	MP2A	Z	5.551	6.25
42	MP2A	Mx	.001	6.25
43	MP2B	X	-8.943	1.25
44	MP2B	Z	5.163	1.25
45	MP2B	Mx	-.006	1.25
46	MP2B	X	-8.943	6.25
47	MP2B	Z	5.163	6.25
48	MP2B	Mx	-.006	6.25
49	MP2C	X	-11.813	1.25
50	MP2C	Z	6.82	1.25
51	MP2C	Mx	.01	1.25
52	MP2C	X	-11.813	6.25
53	MP2C	Z	6.82	6.25
54	MP2C	Mx	.01	6.25
55	M125	X	-5.157	1.5
56	M125	Z	2.977	1.5
57	M125	Mx	0	1.5
58	MP1A	X	-3.389	4.5
59	MP1A	Z	1.957	4.5
60	MP1A	Mx	-.002	4.5
61	MP1B	X	-3.06	4.5
62	MP1B	Z	1.767	4.5
63	MP1B	Mx	.002	4.5
64	MP1C	X	-4.466	4.5
65	MP1C	Z	2.578	4.5
66	MP1C	Mx	-.000448	4.5
67	MP2A	X	-2.96	4.5
68	MP2A	Z	1.709	4.5
69	MP2A	Mx	-.001	4.5
70	MP2B	X	-2.505	4.5
71	MP2B	Z	1.446	4.5
72	MP2B	Mx	.001	4.5
73	MP2C	X	-4.449	4.5
74	MP2C	Z	2.568	4.5
75	MP2C	Mx	-.000446	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-2.563	2.75
2	MP4A	Z	0	2.75
3	MP4A	Mx	.001	2.75
4	MP4A	X	-2.563	4.75
5	MP4A	Z	0	4.75
6	MP4A	Mx	.001	4.75
7	MP4B	X	-4.208	2.75
8	MP4B	Z	0	2.75
9	MP4B	Mx	-.002	2.75
10	MP4B	X	-4.208	4.75
11	MP4B	Z	0	4.75
12	MP4B	Mx	-.002	4.75
13	MP4C	X	-6.08	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
14	MP4C	Z	0	2.75
15	MP4C	Mx	-.001	2.75
16	MP4C	X	-6.08	4.75
17	MP4C	Z	0	4.75
18	MP4C	Mx	-.001	4.75
19	MP2A	X	-10.22	1.25
20	MP2A	Z	0	1.25
21	MP2A	Mx	.005	1.25
22	MP2A	X	-10.22	6.25
23	MP2A	Z	0	6.25
24	MP2A	Mx	.005	6.25
25	MP2B	X	-11.677	1.25
26	MP2B	Z	0	1.25
27	MP2B	Mx	.000531	1.25
28	MP2B	X	-11.677	6.25
29	MP2B	Z	0	6.25
30	MP2B	Mx	.000531	6.25
31	MP2C	X	-13.334	1.25
32	MP2C	Z	0	1.25
33	MP2C	Mx	-.011	1.25
34	MP2C	X	-13.334	6.25
35	MP2C	Z	0	6.25
36	MP2C	Mx	-.011	6.25
37	MP2A	X	-10.22	1.25
38	MP2A	Z	0	1.25
39	MP2A	Mx	.005	1.25
40	MP2A	X	-10.22	6.25
41	MP2A	Z	0	6.25
42	MP2A	Mx	.005	6.25
43	MP2B	X	-11.677	1.25
44	MP2B	Z	0	1.25
45	MP2B	Mx	-.009	1.25
46	MP2B	X	-11.677	6.25
47	MP2B	Z	0	6.25
48	MP2B	Mx	-.009	6.25
49	MP2C	X	-13.334	1.25
50	MP2C	Z	0	1.25
51	MP2C	Mx	.006	1.25
52	MP2C	X	-13.334	6.25
53	MP2C	Z	0	6.25
54	MP2C	Mx	.006	6.25
55	M125	X	-6.89	1.5
56	M125	Z	0	1.5
57	M125	Mx	0	1.5
58	MP1A	X	-3.482	4.5
59	MP1A	Z	0	4.5
60	MP1A	Mx	-.002	4.5
61	MP1B	X	-4.195	4.5
62	MP1B	Z	0	4.5
63	MP1B	Mx	.002	4.5
64	MP1C	X	-5.007	4.5
65	MP1C	Z	0	4.5
66	MP1C	Mx	.000856	4.5
67	MP2A	X	-2.82	4.5
68	MP2A	Z	0	4.5
69	MP2A	Mx	-.001	4.5
70	MP2B	X	-3.807	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
71	MP2B	Z	0	4.5
72	MP2B	Mx	.001	4.5
73	MP2C	X	-4.929	4.5
74	MP2C	Z	0	4.5
75	MP2C	Mx	.000843	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-3.082	2.75
2	MP4A	Z	-1.779	2.75
3	MP4A	Mx	.002	2.75
4	MP4A	X	-3.082	4.75
5	MP4A	Z	-1.779	4.75
6	MP4A	Mx	.002	4.75
7	MP4B	X	-5.265	2.75
8	MP4B	Z	-3.04	2.75
9	MP4B	Mx	-.001	2.75
10	MP4B	X	-5.265	4.75
11	MP4B	Z	-3.04	4.75
12	MP4B	Mx	-.001	4.75
13	MP4C	X	-3.645	2.75
14	MP4C	Z	-2.104	2.75
15	MP4C	Mx	-.002	2.75
16	MP4C	X	-3.645	4.75
17	MP4C	Z	-2.104	4.75
18	MP4C	Mx	-.002	4.75
19	MP2A	X	-9.614	1.25
20	MP2A	Z	-5.551	1.25
21	MP2A	Mx	.001	1.25
22	MP2A	X	-9.614	6.25
23	MP2A	Z	-5.551	6.25
24	MP2A	Mx	.001	6.25
25	MP2B	X	-11.547	1.25
26	MP2B	Z	-6.667	1.25
27	MP2B	Mx	.006	1.25
28	MP2B	X	-11.547	6.25
29	MP2B	Z	-6.667	6.25
30	MP2B	Mx	.006	6.25
31	MP2C	X	-10.113	1.25
32	MP2C	Z	-5.838	1.25
33	MP2C	Mx	-.009	1.25
34	MP2C	X	-10.113	6.25
35	MP2C	Z	-5.838	6.25
36	MP2C	Mx	-.009	6.25
37	MP2A	X	-9.614	1.25
38	MP2A	Z	-5.551	1.25
39	MP2A	Mx	.009	1.25
40	MP2A	X	-9.614	6.25
41	MP2A	Z	-5.551	6.25
42	MP2A	Mx	.009	6.25
43	MP2B	X	-11.547	1.25
44	MP2B	Z	-6.667	1.25
45	MP2B	Mx	-.011	1.25
46	MP2B	X	-11.547	6.25
47	MP2B	Z	-6.667	6.25
48	MP2B	Mx	-.011	6.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
49	MP2C	X	-10.113	1.25
50	MP2C	Z	-5.838	1.25
51	MP2C	Mx	.000532	1.25
52	MP2C	X	-10.113	6.25
53	MP2C	Z	-5.838	6.25
54	MP2C	Mx	.000532	6.25
55	M125	X	-5.783	1.5
56	M125	Z	-3.339	1.5
57	M125	Mx	0	1.5
58	MP1A	X	-3.389	4.5
59	MP1A	Z	-1.957	4.5
60	MP1A	Mx	-.002	4.5
61	MP1B	X	-4.336	4.5
62	MP1B	Z	-2.503	4.5
63	MP1B	Mx	.000856	4.5
64	MP1C	X	-3.633	4.5
65	MP1C	Z	-2.098	4.5
66	MP1C	Mx	.002	4.5
67	MP2A	X	-2.96	4.5
68	MP2A	Z	-1.709	4.5
69	MP2A	Mx	-.001	4.5
70	MP2B	X	-4.269	4.5
71	MP2B	Z	-2.465	4.5
72	MP2B	Mx	.000843	4.5
73	MP2C	X	-3.297	4.5
74	MP2C	Z	-1.904	4.5
75	MP2C	Mx	.001	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-2.775	2.75
2	MP4A	Z	-4.807	2.75
3	MP4A	Mx	.001	2.75
4	MP4A	X	-2.775	4.75
5	MP4A	Z	-4.807	4.75
6	MP4A	Mx	.001	4.75
7	MP4B	X	-3.213	2.75
8	MP4B	Z	-5.565	2.75
9	MP4B	Mx	.000558	2.75
10	MP4B	X	-3.213	4.75
11	MP4B	Z	-5.565	4.75
12	MP4B	Mx	.000558	4.75
13	MP4C	X	-1.341	2.75
14	MP4C	Z	-2.323	2.75
15	MP4C	Mx	-.001	2.75
16	MP4C	X	-1.341	4.75
17	MP4C	Z	-2.323	4.75
18	MP4C	Mx	-.001	4.75
19	MP2A	X	-6.432	1.25
20	MP2A	Z	-11.141	1.25
21	MP2A	Mx	-.004	1.25
22	MP2A	X	-6.432	6.25
23	MP2A	Z	-11.141	6.25
24	MP2A	Mx	-.004	6.25
25	MP2B	X	-6.82	1.25
26	MP2B	Z	-11.813	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP2B	Mx	.01	1.25
28	MP2B	X	-6.82	6.25
29	MP2B	Z	-11.813	6.25
30	MP2B	Mx	.01	6.25
31	MP2C	X	-5.163	1.25
32	MP2C	Z	-8.943	1.25
33	MP2C	Mx	-.006	1.25
34	MP2C	X	-5.163	6.25
35	MP2C	Z	-8.943	6.25
36	MP2C	Mx	-.006	6.25
37	MP2A	X	-6.432	1.25
38	MP2A	Z	-11.141	1.25
39	MP2A	Mx	.011	1.25
40	MP2A	X	-6.432	6.25
41	MP2A	Z	-11.141	6.25
42	MP2A	Mx	.011	6.25
43	MP2B	X	-6.82	1.25
44	MP2B	Z	-11.813	1.25
45	MP2B	Mx	-.008	1.25
46	MP2B	X	-6.82	6.25
47	MP2B	Z	-11.813	6.25
48	MP2B	Mx	-.008	6.25
49	MP2C	X	-5.163	1.25
50	MP2C	Z	-8.943	1.25
51	MP2C	Mx	-.004	1.25
52	MP2C	X	-5.163	6.25
53	MP2C	Z	-8.943	6.25
54	MP2C	Mx	-.004	6.25
55	M125	X	-2.765	1.5
56	M125	Z	-4.79	1.5
57	M125	Mx	0	1.5
58	MP1A	X	-2.389	4.5
59	MP1A	Z	-4.137	4.5
60	MP1A	Mx	-.001	4.5
61	MP1B	X	-2.578	4.5
62	MP1B	Z	-4.466	4.5
63	MP1B	Mx	-.000448	4.5
64	MP1C	X	-1.767	4.5
65	MP1C	Z	-3.06	4.5
66	MP1C	Mx	.002	4.5
67	MP2A	X	-2.306	4.5
68	MP2A	Z	-3.994	4.5
69	MP2A	Mx	-.001	4.5
70	MP2B	X	-2.568	4.5
71	MP2B	Z	-4.449	4.5
72	MP2B	Mx	-.000446	4.5
73	MP2C	X	-1.446	4.5
74	MP2C	Z	-2.505	4.5
75	MP2C	Mx	.001	4.5

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M198A	Y	-500	%66

Member Point Loads (BLC 78 : Lm2)

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M198A	Y	-500	%2

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M198A	Y	-250	%100

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M198A	Y	-250	%50

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	Y	-9.881	-9.881	0	%100
2	M10	Y	-9.881	-9.881	0	%100
3	M43	Y	-9.881	-9.881	0	%100
4	M46	Y	-10.407	-10.407	0	%100
5	M51B	Y	-5.795	-5.795	0	%100
6	M52B	Y	-5.795	-5.795	0	%100
7	M76	Y	-10.394	-10.394	0	%100
8	M77	Y	-10.394	-10.394	0	%100
9	M80	Y	-10.407	-10.407	0	%100
10	M84	Y	-10.394	-10.394	0	%100
11	M85	Y	-10.394	-10.394	0	%100
12	M91	Y	-10.407	-10.407	0	%100
13	M150A	Y	-9.881	-9.881	0	%100
14	M151A	Y	-9.881	-9.881	0	%100
15	M152A	Y	-9.881	-9.881	0	%100
16	M153A	Y	-10.407	-10.407	0	%100
17	M156A	Y	-5.795	-5.795	0	%100
18	M157A	Y	-5.795	-5.795	0	%100
19	M161A	Y	-10.394	-10.394	0	%100
20	M162A	Y	-10.394	-10.394	0	%100
21	M164A	Y	-10.407	-10.407	0	%100
22	M166A	Y	-10.394	-10.394	0	%100
23	M167A	Y	-10.394	-10.394	0	%100
24	M169A	Y	-10.407	-10.407	0	%100
25	M174A	Y	-9.881	-9.881	0	%100
26	M175A	Y	-9.881	-9.881	0	%100
27	M176A	Y	-9.881	-9.881	0	%100
28	M177A	Y	-10.407	-10.407	0	%100
29	M180A	Y	-5.795	-5.795	0	%100
30	M181A	Y	-5.795	-5.795	0	%100
31	M185A	Y	-10.394	-10.394	0	%100
32	M186A	Y	-10.394	-10.394	0	%100
33	M188A	Y	-10.407	-10.407	0	%100
34	M190A	Y	-10.394	-10.394	0	%100
35	M191A	Y	-10.394	-10.394	0	%100
36	M193A	Y	-10.407	-10.407	0	%100
37	M198A	Y	-6.765	-6.765	0	%100
38	M199A	Y	-6.765	-6.765	0	%100
39	M200A	Y	-6.765	-6.765	0	%100
40	M201A	Y	-5.14	-5.14	0	%100
41	M202A	Y	-5.14	-5.14	0	%100
42	M203A	Y	-5.14	-5.14	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,%]
43	M210A	Y	-6.817	-6.817	0	%100
44	M211A	Y	-6.817	-6.817	0	%100
45	M212A	Y	-6.817	-6.817	0	%100
46	MP1A	Y	-5.14	-5.14	0	%100
47	MP2A	Y	-5.14	-5.14	0	%100
48	MP3A	Y	-5.14	-5.14	0	%100
49	MP4A	Y	-5.14	-5.14	0	%100
50	MP1C	Y	-5.14	-5.14	0	%100
51	MP2C	Y	-5.14	-5.14	0	%100
52	MP3C	Y	-5.14	-5.14	0	%100
53	MP4C	Y	-5.14	-5.14	0	%100
54	MP1B	Y	-5.14	-5.14	0	%100
55	MP2B	Y	-5.14	-5.14	0	%100
56	MP3B	Y	-5.14	-5.14	0	%100
57	MP4B	Y	-5.14	-5.14	0	%100
58	M125	Y	-5.14	-5.14	0	%100
59	M126	Y	-5.795	-5.795	0	%100
60	M127	Y	-5.795	-5.795	0	%100
61	M128	Y	-5.795	-5.795	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	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	-14.085	-14.085	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	-14.085	-14.085	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	-28.094	-28.094	0	%100
9	M51B	X	0	0	0	%100
10	M51B	Z	-3.9	-3.9	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	-3.9	-3.9	0	%100
13	M76	X	0	0	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	-7.154	-7.154	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	-7.535	-7.535	0	%100
19	M84	X	0	0	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	0	0	0	%100
22	M85	Z	-7.154	-7.154	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	-7.535	-7.535	0	%100
25	M150A	X	0	0	0	%100
26	M150A	Z	-12.484	-12.484	0	%100
27	M151A	X	0	0	0	%100
28	M151A	Z	-3.521	-3.521	0	%100
29	M152A	X	0	0	0	%100
30	M152A	Z	-3.521	-3.521	0	%100
31	M153A	X	0	0	0	%100
32	M153A	Z	-7.024	-7.024	0	%100
33	M156A	X	0	0	0	%100
34	M156A	Z	-3.9	-3.9	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,%]
35	M157A	X	0	0	0	%100
36	M157A	Z	-15.6	-15.6	0	%100
37	M161A	X	0	0	0	%100
38	M161A	Z	-21.071	-21.071	0	%100
39	M162A	X	0	0	0	%100
40	M162A	Z	-7.154	-7.154	0	%100
41	M164A	X	0	0	0	%100
42	M164A	Z	-7.535	-7.535	0	%100
43	M166A	X	0	0	0	%100
44	M166A	Z	-21.071	-21.071	0	%100
45	M167A	X	0	0	0	%100
46	M167A	Z	-28.615	-28.615	0	%100
47	M169A	X	0	0	0	%100
48	M169A	Z	-30.139	-30.139	0	%100
49	M174A	X	0	0	0	%100
50	M174A	Z	-12.484	-12.484	0	%100
51	M175A	X	0	0	0	%100
52	M175A	Z	-3.521	-3.521	0	%100
53	M176A	X	0	0	0	%100
54	M176A	Z	-3.521	-3.521	0	%100
55	M177A	X	0	0	0	%100
56	M177A	Z	-7.024	-7.024	0	%100
57	M180A	X	0	0	0	%100
58	M180A	Z	-15.6	-15.6	0	%100
59	M181A	X	0	0	0	%100
60	M181A	Z	-3.9	-3.9	0	%100
61	M185A	X	0	0	0	%100
62	M185A	Z	-21.071	-21.071	0	%100
63	M186A	X	0	0	0	%100
64	M186A	Z	-28.615	-28.615	0	%100
65	M188A	X	0	0	0	%100
66	M188A	Z	-30.139	-30.139	0	%100
67	M190A	X	0	0	0	%100
68	M190A	Z	-21.071	-21.071	0	%100
69	M191A	X	0	0	0	%100
70	M191A	Z	-7.154	-7.154	0	%100
71	M193A	X	0	0	0	%100
72	M193A	Z	-7.535	-7.535	0	%100
73	M198A	X	0	0	0	%100
74	M198A	Z	-14.982	-14.982	0	%100
75	M199A	X	0	0	0	%100
76	M199A	Z	-3.746	-3.746	0	%100
77	M200A	X	0	0	0	%100
78	M200A	Z	-3.746	-3.746	0	%100
79	M201A	X	0	0	0	%100
80	M201A	Z	-11.121	-11.121	0	%100
81	M202A	X	0	0	0	%100
82	M202A	Z	-2.78	-2.78	0	%100
83	M203A	X	0	0	0	%100
84	M203A	Z	-2.78	-2.78	0	%100
85	M210A	X	0	0	0	%100
86	M210A	Z	-3.339	-3.339	0	%100
87	M211A	X	0	0	0	%100
88	M211A	Z	-3.339	-3.339	0	%100
89	M212A	X	0	0	0	%100
90	M212A	Z	-13.357	-13.357	0	%100
91	MP1A	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,%]
92	MP1A	Z	-11.121	-11.121	0	%100
93	MP2A	X	0	0	0	%100
94	MP2A	Z	-11.121	-11.121	0	%100
95	MP3A	X	0	0	0	%100
96	MP3A	Z	-11.121	-11.121	0	%100
97	MP4A	X	0	0	0	%100
98	MP4A	Z	-11.121	-11.121	0	%100
99	MP1C	X	0	0	0	%100
100	MP1C	Z	-11.121	-11.121	0	%100
101	MP2C	X	0	0	0	%100
102	MP2C	Z	-11.121	-11.121	0	%100
103	MP3C	X	0	0	0	%100
104	MP3C	Z	-11.121	-11.121	0	%100
105	MP4C	X	0	0	0	%100
106	MP4C	Z	-11.121	-11.121	0	%100
107	MP1B	X	0	0	0	%100
108	MP1B	Z	-11.121	-11.121	0	%100
109	MP2B	X	0	0	0	%100
110	MP2B	Z	-11.121	-11.121	0	%100
111	MP3B	X	0	0	0	%100
112	MP3B	Z	-11.121	-11.121	0	%100
113	MP4B	X	0	0	0	%100
114	MP4B	Z	-11.121	-11.121	0	%100
115	M125	X	0	0	0	%100
116	M125	Z	-9.094	-9.094	0	%100
117	M126	X	0	0	0	%100
118	M126	Z	-13.111	-13.111	0	%100
119	M127	X	0	0	0	%100
120	M127	Z	-5.619	-5.619	0	%100
121	M128	X	0	0	0	%100
122	M128	Z	-13.111	-13.111	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	2.081	2.081	0	%100
2	M4	Z	-3.604	-3.604	0	%100
3	M10	X	5.282	5.282	0	%100
4	M10	Z	-9.149	-9.149	0	%100
5	M43	X	5.282	5.282	0	%100
6	M43	Z	-9.149	-9.149	0	%100
7	M46	X	10.535	10.535	0	%100
8	M46	Z	-18.248	-18.248	0	%100
9	M51B	X	5.85	5.85	0	%100
10	M51B	Z	-10.133	-10.133	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	3.512	3.512	0	%100
14	M76	Z	-6.083	-6.083	0	%100
15	M77	X	10.731	10.731	0	%100
16	M77	Z	-18.586	-18.586	0	%100
17	M80	X	11.302	11.302	0	%100
18	M80	Z	-19.576	-19.576	0	%100
19	M84	X	3.512	3.512	0	%100
20	M84	Z	-6.083	-6.083	0	%100
21	M85	X	0	0	0	%100
22	M85	Z	0	0	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,%]
23	M91	X	0	0	0	%100
24	M91	Z	0	0	0	%100
25	M150A	X	2.081	2.081	0	%100
26	M150A	Z	-3.604	-3.604	0	%100
27	M151A	X	5.282	5.282	0	%100
28	M151A	Z	-9.149	-9.149	0	%100
29	M152A	X	5.282	5.282	0	%100
30	M152A	Z	-9.149	-9.149	0	%100
31	M153A	X	10.535	10.535	0	%100
32	M153A	Z	-18.248	-18.248	0	%100
33	M156A	X	0	0	0	%100
34	M156A	Z	0	0	0	%100
35	M157A	X	5.85	5.85	0	%100
36	M157A	Z	-10.133	-10.133	0	%100
37	M161A	X	3.512	3.512	0	%100
38	M161A	Z	-6.083	-6.083	0	%100
39	M162A	X	0	0	0	%100
40	M162A	Z	0	0	0	%100
41	M164A	X	0	0	0	%100
42	M164A	Z	0	0	0	%100
43	M166A	X	3.512	3.512	0	%100
44	M166A	Z	-6.083	-6.083	0	%100
45	M167A	X	10.731	10.731	0	%100
46	M167A	Z	-18.586	-18.586	0	%100
47	M169A	X	11.302	11.302	0	%100
48	M169A	Z	-19.576	-19.576	0	%100
49	M174A	X	8.323	8.323	0	%100
50	M174A	Z	-14.416	-14.416	0	%100
51	M175A	X	0	0	0	%100
52	M175A	Z	0	0	0	%100
53	M176A	X	0	0	0	%100
54	M176A	Z	0	0	0	%100
55	M177A	X	0	0	0	%100
56	M177A	Z	0	0	0	%100
57	M180A	X	5.85	5.85	0	%100
58	M180A	Z	-10.133	-10.133	0	%100
59	M181A	X	5.85	5.85	0	%100
60	M181A	Z	-10.133	-10.133	0	%100
61	M185A	X	14.047	14.047	0	%100
62	M185A	Z	-24.33	-24.33	0	%100
63	M186A	X	10.731	10.731	0	%100
64	M186A	Z	-18.586	-18.586	0	%100
65	M188A	X	11.302	11.302	0	%100
66	M188A	Z	-19.576	-19.576	0	%100
67	M190A	X	14.047	14.047	0	%100
68	M190A	Z	-24.33	-24.33	0	%100
69	M191A	X	10.731	10.731	0	%100
70	M191A	Z	-18.586	-18.586	0	%100
71	M193A	X	11.302	11.302	0	%100
72	M193A	Z	-19.576	-19.576	0	%100
73	M198A	X	5.618	5.618	0	%100
74	M198A	Z	-9.731	-9.731	0	%100
75	M199A	X	5.618	5.618	0	%100
76	M199A	Z	-9.731	-9.731	0	%100
77	M200A	X	0	0	0	%100
78	M200A	Z	0	0	0	%100
79	M201A	X	4.17	4.17	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,%]
80	M201A	Z	-7.223	-7.223	0	%100
81	M202A	X	4.17	4.17	0	%100
82	M202A	Z	-7.223	-7.223	0	%100
83	M203A	X	0	0	0	%100
84	M203A	Z	0	0	0	%100
85	M210A	X	5.009	5.009	0	%100
86	M210A	Z	-8.675	-8.675	0	%100
87	M211A	X	0	0	0	%100
88	M211A	Z	0	0	0	%100
89	M212A	X	5.009	5.009	0	%100
90	M212A	Z	-8.675	-8.675	0	%100
91	MP1A	X	5.56	5.56	0	%100
92	MP1A	Z	-9.631	-9.631	0	%100
93	MP2A	X	5.56	5.56	0	%100
94	MP2A	Z	-9.631	-9.631	0	%100
95	MP3A	X	5.56	5.56	0	%100
96	MP3A	Z	-9.631	-9.631	0	%100
97	MP4A	X	5.56	5.56	0	%100
98	MP4A	Z	-9.631	-9.631	0	%100
99	MP1C	X	5.56	5.56	0	%100
100	MP1C	Z	-9.631	-9.631	0	%100
101	MP2C	X	5.56	5.56	0	%100
102	MP2C	Z	-9.631	-9.631	0	%100
103	MP3C	X	5.56	5.56	0	%100
104	MP3C	Z	-9.631	-9.631	0	%100
105	MP4C	X	5.56	5.56	0	%100
106	MP4C	Z	-9.631	-9.631	0	%100
107	MP1B	X	5.56	5.56	0	%100
108	MP1B	Z	-9.631	-9.631	0	%100
109	MP2B	X	5.56	5.56	0	%100
110	MP2B	Z	-9.631	-9.631	0	%100
111	MP3B	X	5.56	5.56	0	%100
112	MP3B	Z	-9.631	-9.631	0	%100
113	MP4B	X	5.56	5.56	0	%100
114	MP4B	Z	-9.631	-9.631	0	%100
115	M125	X	4.547	4.547	0	%100
116	M125	Z	-7.875	-7.875	0	%100
117	M126	X	4.058	4.058	0	%100
118	M126	Z	-7.029	-7.029	0	%100
119	M127	X	4.058	4.058	0	%100
120	M127	Z	-7.029	-7.029	0	%100
121	M128	X	7.804	7.804	0	%100
122	M128	Z	-13.517	-13.517	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	M4	X	10.812	10.812	0	%100
2	M4	Z	-6.242	-6.242	0	%100
3	M10	X	3.05	3.05	0	%100
4	M10	Z	-1.761	-1.761	0	%100
5	M43	X	3.05	3.05	0	%100
6	M43	Z	-1.761	-1.761	0	%100
7	M46	X	6.083	6.083	0	%100
8	M46	Z	-3.512	-3.512	0	%100
9	M51B	X	13.51	13.51	0	%100
10	M51B	Z	-7.8	-7.8	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,%]
11	M52B	X	3.378	3.378	0	%100
12	M52B	Z	-1.95	-1.95	0	%100
13	M76	X	18.248	18.248	0	%100
14	M76	Z	-10.535	-10.535	0	%100
15	M77	X	24.781	24.781	0	%100
16	M77	Z	-14.307	-14.307	0	%100
17	M80	X	26.101	26.101	0	%100
18	M80	Z	-15.07	-15.07	0	%100
19	M84	X	18.248	18.248	0	%100
20	M84	Z	-10.535	-10.535	0	%100
21	M85	X	6.195	6.195	0	%100
22	M85	Z	-3.577	-3.577	0	%100
23	M91	X	6.525	6.525	0	%100
24	M91	Z	-3.767	-3.767	0	%100
25	M150A	X	0	0	0	%100
26	M150A	Z	0	0	0	%100
27	M151A	X	12.198	12.198	0	%100
28	M151A	Z	-7.043	-7.043	0	%100
29	M152A	X	12.198	12.198	0	%100
30	M152A	Z	-7.043	-7.043	0	%100
31	M153A	X	24.33	24.33	0	%100
32	M153A	Z	-14.047	-14.047	0	%100
33	M156A	X	3.378	3.378	0	%100
34	M156A	Z	-1.95	-1.95	0	%100
35	M157A	X	3.378	3.378	0	%100
36	M157A	Z	-1.95	-1.95	0	%100
37	M161A	X	0	0	0	%100
38	M161A	Z	0	0	0	%100
39	M162A	X	6.195	6.195	0	%100
40	M162A	Z	-3.577	-3.577	0	%100
41	M164A	X	6.525	6.525	0	%100
42	M164A	Z	-3.767	-3.767	0	%100
43	M166A	X	0	0	0	%100
44	M166A	Z	0	0	0	%100
45	M167A	X	6.195	6.195	0	%100
46	M167A	Z	-3.577	-3.577	0	%100
47	M169A	X	6.525	6.525	0	%100
48	M169A	Z	-3.767	-3.767	0	%100
49	M174A	X	10.812	10.812	0	%100
50	M174A	Z	-6.242	-6.242	0	%100
51	M175A	X	3.05	3.05	0	%100
52	M175A	Z	-1.761	-1.761	0	%100
53	M176A	X	3.05	3.05	0	%100
54	M176A	Z	-1.761	-1.761	0	%100
55	M177A	X	6.083	6.083	0	%100
56	M177A	Z	-3.512	-3.512	0	%100
57	M180A	X	3.378	3.378	0	%100
58	M180A	Z	-1.95	-1.95	0	%100
59	M181A	X	13.51	13.51	0	%100
60	M181A	Z	-7.8	-7.8	0	%100
61	M185A	X	18.248	18.248	0	%100
62	M185A	Z	-10.535	-10.535	0	%100
63	M186A	X	6.195	6.195	0	%100
64	M186A	Z	-3.577	-3.577	0	%100
65	M188A	X	6.525	6.525	0	%100
66	M188A	Z	-3.767	-3.767	0	%100
67	M190A	X	18.248	18.248	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,%]
68	M190A	Z	-10.535	-10.535	0	%100
69	M191A	X	24.781	24.781	0	%100
70	M191A	Z	-14.307	-14.307	0	%100
71	M193A	X	26.101	26.101	0	%100
72	M193A	Z	-15.07	-15.07	0	%100
73	M198A	X	3.244	3.244	0	%100
74	M198A	Z	-1.873	-1.873	0	%100
75	M199A	X	12.975	12.975	0	%100
76	M199A	Z	-7.491	-7.491	0	%100
77	M200A	X	3.244	3.244	0	%100
78	M200A	Z	-1.873	-1.873	0	%100
79	M201A	X	2.408	2.408	0	%100
80	M201A	Z	-1.39	-1.39	0	%100
81	M202A	X	9.631	9.631	0	%100
82	M202A	Z	-5.56	-5.56	0	%100
83	M203A	X	2.408	2.408	0	%100
84	M203A	Z	-1.39	-1.39	0	%100
85	M210A	X	11.567	11.567	0	%100
86	M210A	Z	-6.678	-6.678	0	%100
87	M211A	X	2.892	2.892	0	%100
88	M211A	Z	-1.67	-1.67	0	%100
89	M212A	X	2.892	2.892	0	%100
90	M212A	Z	-1.67	-1.67	0	%100
91	MP1A	X	9.631	9.631	0	%100
92	MP1A	Z	-5.56	-5.56	0	%100
93	MP2A	X	9.631	9.631	0	%100
94	MP2A	Z	-5.56	-5.56	0	%100
95	MP3A	X	9.631	9.631	0	%100
96	MP3A	Z	-5.56	-5.56	0	%100
97	MP4A	X	9.631	9.631	0	%100
98	MP4A	Z	-5.56	-5.56	0	%100
99	MP1C	X	9.631	9.631	0	%100
100	MP1C	Z	-5.56	-5.56	0	%100
101	MP2C	X	9.631	9.631	0	%100
102	MP2C	Z	-5.56	-5.56	0	%100
103	MP3C	X	9.631	9.631	0	%100
104	MP3C	Z	-5.56	-5.56	0	%100
105	MP4C	X	9.631	9.631	0	%100
106	MP4C	Z	-5.56	-5.56	0	%100
107	MP1B	X	9.631	9.631	0	%100
108	MP1B	Z	-5.56	-5.56	0	%100
109	MP2B	X	9.631	9.631	0	%100
110	MP2B	Z	-5.56	-5.56	0	%100
111	MP3B	X	9.631	9.631	0	%100
112	MP3B	Z	-5.56	-5.56	0	%100
113	MP4B	X	9.631	9.631	0	%100
114	MP4B	Z	-5.56	-5.56	0	%100
115	M125	X	7.875	7.875	0	%100
116	M125	Z	-4.547	-4.547	0	%100
117	M126	X	4.866	4.866	0	%100
118	M126	Z	-2.809	-2.809	0	%100
119	M127	X	11.354	11.354	0	%100
120	M127	Z	-6.555	-6.555	0	%100
121	M128	X	11.354	11.354	0	%100
122	M128	Z	-6.555	-6.555	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	M4	X	16.646	16.646	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	0	0	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	0	0	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	0	0	0	%100
9	M51B	X	11.7	11.7	0	%100
10	M51B	Z	0	0	0	%100
11	M52B	X	11.7	11.7	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	28.094	28.094	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	21.461	21.461	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	22.604	22.604	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	28.094	28.094	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	21.461	21.461	0	%100
22	M85	Z	0	0	0	%100
23	M91	X	22.604	22.604	0	%100
24	M91	Z	0	0	0	%100
25	M150A	X	4.161	4.161	0	%100
26	M150A	Z	0	0	0	%100
27	M151A	X	10.564	10.564	0	%100
28	M151A	Z	0	0	0	%100
29	M152A	X	10.564	10.564	0	%100
30	M152A	Z	0	0	0	%100
31	M153A	X	21.071	21.071	0	%100
32	M153A	Z	0	0	0	%100
33	M156A	X	11.7	11.7	0	%100
34	M156A	Z	0	0	0	%100
35	M157A	X	0	0	0	%100
36	M157A	Z	0	0	0	%100
37	M161A	X	7.024	7.024	0	%100
38	M161A	Z	0	0	0	%100
39	M162A	X	21.461	21.461	0	%100
40	M162A	Z	0	0	0	%100
41	M164A	X	22.604	22.604	0	%100
42	M164A	Z	0	0	0	%100
43	M166A	X	7.024	7.024	0	%100
44	M166A	Z	0	0	0	%100
45	M167A	X	0	0	0	%100
46	M167A	Z	0	0	0	%100
47	M169A	X	0	0	0	%100
48	M169A	Z	0	0	0	%100
49	M174A	X	4.161	4.161	0	%100
50	M174A	Z	0	0	0	%100
51	M175A	X	10.564	10.564	0	%100
52	M175A	Z	0	0	0	%100
53	M176A	X	10.564	10.564	0	%100
54	M176A	Z	0	0	0	%100
55	M177A	X	21.071	21.071	0	%100
56	M177A	Z	0	0	0	%100
57	M180A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M180A	Z	0	0	0	%100
59	M181A	X	11.7	11.7	0	%100
60	M181A	Z	0	0	0	%100
61	M185A	X	7.024	7.024	0	%100
62	M185A	Z	0	0	0	%100
63	M186A	X	0	0	0	%100
64	M186A	Z	0	0	0	%100
65	M188A	X	0	0	0	%100
66	M188A	Z	0	0	0	%100
67	M190A	X	7.024	7.024	0	%100
68	M190A	Z	0	0	0	%100
69	M191A	X	21.461	21.461	0	%100
70	M191A	Z	0	0	0	%100
71	M193A	X	22.604	22.604	0	%100
72	M193A	Z	0	0	0	%100
73	M198A	X	0	0	0	%100
74	M198A	Z	0	0	0	%100
75	M199A	X	11.237	11.237	0	%100
76	M199A	Z	0	0	0	%100
77	M200A	X	11.237	11.237	0	%100
78	M200A	Z	0	0	0	%100
79	M201A	X	0	0	0	%100
80	M201A	Z	0	0	0	%100
81	M202A	X	8.341	8.341	0	%100
82	M202A	Z	0	0	0	%100
83	M203A	X	8.341	8.341	0	%100
84	M203A	Z	0	0	0	%100
85	M210A	X	10.017	10.017	0	%100
86	M210A	Z	0	0	0	%100
87	M211A	X	10.017	10.017	0	%100
88	M211A	Z	0	0	0	%100
89	M212A	X	0	0	0	%100
90	M212A	Z	0	0	0	%100
91	MP1A	X	11.121	11.121	0	%100
92	MP1A	Z	0	0	0	%100
93	MP2A	X	11.121	11.121	0	%100
94	MP2A	Z	0	0	0	%100
95	MP3A	X	11.121	11.121	0	%100
96	MP3A	Z	0	0	0	%100
97	MP4A	X	11.121	11.121	0	%100
98	MP4A	Z	0	0	0	%100
99	MP1C	X	11.121	11.121	0	%100
100	MP1C	Z	0	0	0	%100
101	MP2C	X	11.121	11.121	0	%100
102	MP2C	Z	0	0	0	%100
103	MP3C	X	11.121	11.121	0	%100
104	MP3C	Z	0	0	0	%100
105	MP4C	X	11.121	11.121	0	%100
106	MP4C	Z	0	0	0	%100
107	MP1B	X	11.121	11.121	0	%100
108	MP1B	Z	0	0	0	%100
109	MP2B	X	11.121	11.121	0	%100
110	MP2B	Z	0	0	0	%100
111	MP3B	X	11.121	11.121	0	%100
112	MP3B	Z	0	0	0	%100
113	MP4B	X	11.121	11.121	0	%100
114	MP4B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
115	M125	X	9.094	9.094	0	%100
116	M125	Z	0	0	0	%100
117	M126	X	8.116	8.116	0	%100
118	M126	Z	0	0	0	%100
119	M127	X	15.608	15.608	0	%100
120	M127	Z	0	0	0	%100
121	M128	X	8.116	8.116	0	%100
122	M128	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	M4	X	10.812	10.812	0	%100
2	M4	Z	6.242	6.242	0	%100
3	M10	X	3.05	3.05	0	%100
4	M10	Z	1.761	1.761	0	%100
5	M43	X	3.05	3.05	0	%100
6	M43	Z	1.761	1.761	0	%100
7	M46	X	6.083	6.083	0	%100
8	M46	Z	3.512	3.512	0	%100
9	M51B	X	3.378	3.378	0	%100
10	M51B	Z	1.95	1.95	0	%100
11	M52B	X	13.51	13.51	0	%100
12	M52B	Z	7.8	7.8	0	%100
13	M76	X	18.248	18.248	0	%100
14	M76	Z	10.535	10.535	0	%100
15	M77	X	6.195	6.195	0	%100
16	M77	Z	3.577	3.577	0	%100
17	M80	X	6.525	6.525	0	%100
18	M80	Z	3.767	3.767	0	%100
19	M84	X	18.248	18.248	0	%100
20	M84	Z	10.535	10.535	0	%100
21	M85	X	24.781	24.781	0	%100
22	M85	Z	14.307	14.307	0	%100
23	M91	X	26.101	26.101	0	%100
24	M91	Z	15.07	15.07	0	%100
25	M150A	X	10.812	10.812	0	%100
26	M150A	Z	6.242	6.242	0	%100
27	M151A	X	3.05	3.05	0	%100
28	M151A	Z	1.761	1.761	0	%100
29	M152A	X	3.05	3.05	0	%100
30	M152A	Z	1.761	1.761	0	%100
31	M153A	X	6.083	6.083	0	%100
32	M153A	Z	3.512	3.512	0	%100
33	M156A	X	13.51	13.51	0	%100
34	M156A	Z	7.8	7.8	0	%100
35	M157A	X	3.378	3.378	0	%100
36	M157A	Z	1.95	1.95	0	%100
37	M161A	X	18.248	18.248	0	%100
38	M161A	Z	10.535	10.535	0	%100
39	M162A	X	24.781	24.781	0	%100
40	M162A	Z	14.307	14.307	0	%100
41	M164A	X	26.101	26.101	0	%100
42	M164A	Z	15.07	15.07	0	%100
43	M166A	X	18.248	18.248	0	%100
44	M166A	Z	10.535	10.535	0	%100
45	M167A	X	6.195	6.195	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,%]
46	M167A	Z	3.577	3.577	0	%100
47	M169A	X	6.525	6.525	0	%100
48	M169A	Z	3.767	3.767	0	%100
49	M174A	X	0	0	0	%100
50	M174A	Z	0	0	0	%100
51	M175A	X	12.198	12.198	0	%100
52	M175A	Z	7.043	7.043	0	%100
53	M176A	X	12.198	12.198	0	%100
54	M176A	Z	7.043	7.043	0	%100
55	M177A	X	24.33	24.33	0	%100
56	M177A	Z	14.047	14.047	0	%100
57	M180A	X	3.378	3.378	0	%100
58	M180A	Z	1.95	1.95	0	%100
59	M181A	X	3.378	3.378	0	%100
60	M181A	Z	1.95	1.95	0	%100
61	M185A	X	0	0	0	%100
62	M185A	Z	0	0	0	%100
63	M186A	X	6.195	6.195	0	%100
64	M186A	Z	3.577	3.577	0	%100
65	M188A	X	6.525	6.525	0	%100
66	M188A	Z	3.767	3.767	0	%100
67	M190A	X	0	0	0	%100
68	M190A	Z	0	0	0	%100
69	M191A	X	6.195	6.195	0	%100
70	M191A	Z	3.577	3.577	0	%100
71	M193A	X	6.525	6.525	0	%100
72	M193A	Z	3.767	3.767	0	%100
73	M198A	X	3.244	3.244	0	%100
74	M198A	Z	1.873	1.873	0	%100
75	M199A	X	3.244	3.244	0	%100
76	M199A	Z	1.873	1.873	0	%100
77	M200A	X	12.975	12.975	0	%100
78	M200A	Z	7.491	7.491	0	%100
79	M201A	X	2.408	2.408	0	%100
80	M201A	Z	1.39	1.39	0	%100
81	M202A	X	2.408	2.408	0	%100
82	M202A	Z	1.39	1.39	0	%100
83	M203A	X	9.631	9.631	0	%100
84	M203A	Z	5.56	5.56	0	%100
85	M210A	X	2.892	2.892	0	%100
86	M210A	Z	1.67	1.67	0	%100
87	M211A	X	11.567	11.567	0	%100
88	M211A	Z	6.678	6.678	0	%100
89	M212A	X	2.892	2.892	0	%100
90	M212A	Z	1.67	1.67	0	%100
91	MP1A	X	9.631	9.631	0	%100
92	MP1A	Z	5.56	5.56	0	%100
93	MP2A	X	9.631	9.631	0	%100
94	MP2A	Z	5.56	5.56	0	%100
95	MP3A	X	9.631	9.631	0	%100
96	MP3A	Z	5.56	5.56	0	%100
97	MP4A	X	9.631	9.631	0	%100
98	MP4A	Z	5.56	5.56	0	%100
99	MP1C	X	9.631	9.631	0	%100
100	MP1C	Z	5.56	5.56	0	%100
101	MP2C	X	9.631	9.631	0	%100
102	MP2C	Z	5.56	5.56	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,%]
103	MP3C	X	9.631	9.631	0	%100
104	MP3C	Z	5.56	5.56	0	%100
105	MP4C	X	9.631	9.631	0	%100
106	MP4C	Z	5.56	5.56	0	%100
107	MP1B	X	9.631	9.631	0	%100
108	MP1B	Z	5.56	5.56	0	%100
109	MP2B	X	9.631	9.631	0	%100
110	MP2B	Z	5.56	5.56	0	%100
111	MP3B	X	9.631	9.631	0	%100
112	MP3B	Z	5.56	5.56	0	%100
113	MP4B	X	9.631	9.631	0	%100
114	MP4B	Z	5.56	5.56	0	%100
115	M125	X	7.875	7.875	0	%100
116	M125	Z	4.547	4.547	0	%100
117	M126	X	11.354	11.354	0	%100
118	M126	Z	6.555	6.555	0	%100
119	M127	X	11.354	11.354	0	%100
120	M127	Z	6.555	6.555	0	%100
121	M128	X	4.866	4.866	0	%100
122	M128	Z	2.809	2.809	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	M4	X	2.081	2.081	0	%100
2	M4	Z	3.604	3.604	0	%100
3	M10	X	5.282	5.282	0	%100
4	M10	Z	9.149	9.149	0	%100
5	M43	X	5.282	5.282	0	%100
6	M43	Z	9.149	9.149	0	%100
7	M46	X	10.535	10.535	0	%100
8	M46	Z	18.248	18.248	0	%100
9	M51B	X	0	0	0	%100
10	M51B	Z	0	0	0	%100
11	M52B	X	5.85	5.85	0	%100
12	M52B	Z	10.133	10.133	0	%100
13	M76	X	3.512	3.512	0	%100
14	M76	Z	6.083	6.083	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	3.512	3.512	0	%100
20	M84	Z	6.083	6.083	0	%100
21	M85	X	10.731	10.731	0	%100
22	M85	Z	18.586	18.586	0	%100
23	M91	X	11.302	11.302	0	%100
24	M91	Z	19.576	19.576	0	%100
25	M150A	X	8.323	8.323	0	%100
26	M150A	Z	14.416	14.416	0	%100
27	M151A	X	0	0	0	%100
28	M151A	Z	0	0	0	%100
29	M152A	X	0	0	0	%100
30	M152A	Z	0	0	0	%100
31	M153A	X	0	0	0	%100
32	M153A	Z	0	0	0	%100
33	M156A	X	5.85	5.85	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,%]
34	M156A	Z	10.133	10.133	0	%100
35	M157A	X	5.85	5.85	0	%100
36	M157A	Z	10.133	10.133	0	%100
37	M161A	X	14.047	14.047	0	%100
38	M161A	Z	24.33	24.33	0	%100
39	M162A	X	10.731	10.731	0	%100
40	M162A	Z	18.586	18.586	0	%100
41	M164A	X	11.302	11.302	0	%100
42	M164A	Z	19.576	19.576	0	%100
43	M166A	X	14.047	14.047	0	%100
44	M166A	Z	24.33	24.33	0	%100
45	M167A	X	10.731	10.731	0	%100
46	M167A	Z	18.586	18.586	0	%100
47	M169A	X	11.302	11.302	0	%100
48	M169A	Z	19.576	19.576	0	%100
49	M174A	X	2.081	2.081	0	%100
50	M174A	Z	3.604	3.604	0	%100
51	M175A	X	5.282	5.282	0	%100
52	M175A	Z	9.149	9.149	0	%100
53	M176A	X	5.282	5.282	0	%100
54	M176A	Z	9.149	9.149	0	%100
55	M177A	X	10.535	10.535	0	%100
56	M177A	Z	18.248	18.248	0	%100
57	M180A	X	5.85	5.85	0	%100
58	M180A	Z	10.133	10.133	0	%100
59	M181A	X	0	0	0	%100
60	M181A	Z	0	0	0	%100
61	M185A	X	3.512	3.512	0	%100
62	M185A	Z	6.083	6.083	0	%100
63	M186A	X	10.731	10.731	0	%100
64	M186A	Z	18.586	18.586	0	%100
65	M188A	X	11.302	11.302	0	%100
66	M188A	Z	19.576	19.576	0	%100
67	M190A	X	3.512	3.512	0	%100
68	M190A	Z	6.083	6.083	0	%100
69	M191A	X	0	0	0	%100
70	M191A	Z	0	0	0	%100
71	M193A	X	0	0	0	%100
72	M193A	Z	0	0	0	%100
73	M198A	X	5.618	5.618	0	%100
74	M198A	Z	9.731	9.731	0	%100
75	M199A	X	0	0	0	%100
76	M199A	Z	0	0	0	%100
77	M200A	X	5.618	5.618	0	%100
78	M200A	Z	9.731	9.731	0	%100
79	M201A	X	4.17	4.17	0	%100
80	M201A	Z	7.223	7.223	0	%100
81	M202A	X	0	0	0	%100
82	M202A	Z	0	0	0	%100
83	M203A	X	4.17	4.17	0	%100
84	M203A	Z	7.223	7.223	0	%100
85	M210A	X	0	0	0	%100
86	M210A	Z	0	0	0	%100
87	M211A	X	5.009	5.009	0	%100
88	M211A	Z	8.675	8.675	0	%100
89	M212A	X	5.009	5.009	0	%100
90	M212A	Z	8.675	8.675	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,%]
91	MP1A	X	5.56	5.56	0	%100
92	MP1A	Z	9.631	9.631	0	%100
93	MP2A	X	5.56	5.56	0	%100
94	MP2A	Z	9.631	9.631	0	%100
95	MP3A	X	5.56	5.56	0	%100
96	MP3A	Z	9.631	9.631	0	%100
97	MP4A	X	5.56	5.56	0	%100
98	MP4A	Z	9.631	9.631	0	%100
99	MP1C	X	5.56	5.56	0	%100
100	MP1C	Z	9.631	9.631	0	%100
101	MP2C	X	5.56	5.56	0	%100
102	MP2C	Z	9.631	9.631	0	%100
103	MP3C	X	5.56	5.56	0	%100
104	MP3C	Z	9.631	9.631	0	%100
105	MP4C	X	5.56	5.56	0	%100
106	MP4C	Z	9.631	9.631	0	%100
107	MP1B	X	5.56	5.56	0	%100
108	MP1B	Z	9.631	9.631	0	%100
109	MP2B	X	5.56	5.56	0	%100
110	MP2B	Z	9.631	9.631	0	%100
111	MP3B	X	5.56	5.56	0	%100
112	MP3B	Z	9.631	9.631	0	%100
113	MP4B	X	5.56	5.56	0	%100
114	MP4B	Z	9.631	9.631	0	%100
115	M125	X	4.547	4.547	0	%100
116	M125	Z	7.875	7.875	0	%100
117	M126	X	7.804	7.804	0	%100
118	M126	Z	13.517	13.517	0	%100
119	M127	X	4.058	4.058	0	%100
120	M127	Z	7.029	7.029	0	%100
121	M128	X	4.058	4.058	0	%100
122	M128	Z	7.029	7.029	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	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	14.085	14.085	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	14.085	14.085	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	28.094	28.094	0	%100
9	M51B	X	0	0	0	%100
10	M51B	Z	3.9	3.9	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	3.9	3.9	0	%100
13	M76	X	0	0	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	7.154	7.154	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	7.535	7.535	0	%100
19	M84	X	0	0	0	%100
20	M84	Z	0	0	0	%100
21	M85	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,%]
22	M85	Z	7.154	7.154	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	7.535	7.535	0	%100
25	M150A	X	0	0	0	%100
26	M150A	Z	12.484	12.484	0	%100
27	M151A	X	0	0	0	%100
28	M151A	Z	3.521	3.521	0	%100
29	M152A	X	0	0	0	%100
30	M152A	Z	3.521	3.521	0	%100
31	M153A	X	0	0	0	%100
32	M153A	Z	7.024	7.024	0	%100
33	M156A	X	0	0	0	%100
34	M156A	Z	3.9	3.9	0	%100
35	M157A	X	0	0	0	%100
36	M157A	Z	15.6	15.6	0	%100
37	M161A	X	0	0	0	%100
38	M161A	Z	21.071	21.071	0	%100
39	M162A	X	0	0	0	%100
40	M162A	Z	7.154	7.154	0	%100
41	M164A	X	0	0	0	%100
42	M164A	Z	7.535	7.535	0	%100
43	M166A	X	0	0	0	%100
44	M166A	Z	21.071	21.071	0	%100
45	M167A	X	0	0	0	%100
46	M167A	Z	28.615	28.615	0	%100
47	M169A	X	0	0	0	%100
48	M169A	Z	30.139	30.139	0	%100
49	M174A	X	0	0	0	%100
50	M174A	Z	12.484	12.484	0	%100
51	M175A	X	0	0	0	%100
52	M175A	Z	3.521	3.521	0	%100
53	M176A	X	0	0	0	%100
54	M176A	Z	3.521	3.521	0	%100
55	M177A	X	0	0	0	%100
56	M177A	Z	7.024	7.024	0	%100
57	M180A	X	0	0	0	%100
58	M180A	Z	15.6	15.6	0	%100
59	M181A	X	0	0	0	%100
60	M181A	Z	3.9	3.9	0	%100
61	M185A	X	0	0	0	%100
62	M185A	Z	21.071	21.071	0	%100
63	M186A	X	0	0	0	%100
64	M186A	Z	28.615	28.615	0	%100
65	M188A	X	0	0	0	%100
66	M188A	Z	30.139	30.139	0	%100
67	M190A	X	0	0	0	%100
68	M190A	Z	21.071	21.071	0	%100
69	M191A	X	0	0	0	%100
70	M191A	Z	7.154	7.154	0	%100
71	M193A	X	0	0	0	%100
72	M193A	Z	7.535	7.535	0	%100
73	M198A	X	0	0	0	%100
74	M198A	Z	14.982	14.982	0	%100
75	M199A	X	0	0	0	%100
76	M199A	Z	3.746	3.746	0	%100
77	M200A	X	0	0	0	%100
78	M200A	Z	3.746	3.746	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,%]
79	M201A	X	0	0	0	%100
80	M201A	Z	11.121	11.121	0	%100
81	M202A	X	0	0	0	%100
82	M202A	Z	2.78	2.78	0	%100
83	M203A	X	0	0	0	%100
84	M203A	Z	2.78	2.78	0	%100
85	M210A	X	0	0	0	%100
86	M210A	Z	3.339	3.339	0	%100
87	M211A	X	0	0	0	%100
88	M211A	Z	3.339	3.339	0	%100
89	M212A	X	0	0	0	%100
90	M212A	Z	13.357	13.357	0	%100
91	MP1A	X	0	0	0	%100
92	MP1A	Z	11.121	11.121	0	%100
93	MP2A	X	0	0	0	%100
94	MP2A	Z	11.121	11.121	0	%100
95	MP3A	X	0	0	0	%100
96	MP3A	Z	11.121	11.121	0	%100
97	MP4A	X	0	0	0	%100
98	MP4A	Z	11.121	11.121	0	%100
99	MP1C	X	0	0	0	%100
100	MP1C	Z	11.121	11.121	0	%100
101	MP2C	X	0	0	0	%100
102	MP2C	Z	11.121	11.121	0	%100
103	MP3C	X	0	0	0	%100
104	MP3C	Z	11.121	11.121	0	%100
105	MP4C	X	0	0	0	%100
106	MP4C	Z	11.121	11.121	0	%100
107	MP1B	X	0	0	0	%100
108	MP1B	Z	11.121	11.121	0	%100
109	MP2B	X	0	0	0	%100
110	MP2B	Z	11.121	11.121	0	%100
111	MP3B	X	0	0	0	%100
112	MP3B	Z	11.121	11.121	0	%100
113	MP4B	X	0	0	0	%100
114	MP4B	Z	11.121	11.121	0	%100
115	M125	X	0	0	0	%100
116	M125	Z	9.094	9.094	0	%100
117	M126	X	0	0	0	%100
118	M126	Z	13.111	13.111	0	%100
119	M127	X	0	0	0	%100
120	M127	Z	5.619	5.619	0	%100
121	M128	X	0	0	0	%100
122	M128	Z	13.111	13.111	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	M4	X	-2.081	-2.081	0	%100
2	M4	Z	3.604	3.604	0	%100
3	M10	X	-5.282	-5.282	0	%100
4	M10	Z	9.149	9.149	0	%100
5	M43	X	-5.282	-5.282	0	%100
6	M43	Z	9.149	9.149	0	%100
7	M46	X	-10.535	-10.535	0	%100
8	M46	Z	18.248	18.248	0	%100
9	M51B	X	-5.85	-5.85	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,%]
10	M51B	Z	10.133	10.133	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	-3.512	-3.512	0	%100
14	M76	Z	6.083	6.083	0	%100
15	M77	X	-10.731	-10.731	0	%100
16	M77	Z	18.586	18.586	0	%100
17	M80	X	-11.302	-11.302	0	%100
18	M80	Z	19.576	19.576	0	%100
19	M84	X	-3.512	-3.512	0	%100
20	M84	Z	6.083	6.083	0	%100
21	M85	X	0	0	0	%100
22	M85	Z	0	0	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	0	0	0	%100
25	M150A	X	-2.081	-2.081	0	%100
26	M150A	Z	3.604	3.604	0	%100
27	M151A	X	-5.282	-5.282	0	%100
28	M151A	Z	9.149	9.149	0	%100
29	M152A	X	-5.282	-5.282	0	%100
30	M152A	Z	9.149	9.149	0	%100
31	M153A	X	-10.535	-10.535	0	%100
32	M153A	Z	18.248	18.248	0	%100
33	M156A	X	0	0	0	%100
34	M156A	Z	0	0	0	%100
35	M157A	X	-5.85	-5.85	0	%100
36	M157A	Z	10.133	10.133	0	%100
37	M161A	X	-3.512	-3.512	0	%100
38	M161A	Z	6.083	6.083	0	%100
39	M162A	X	0	0	0	%100
40	M162A	Z	0	0	0	%100
41	M164A	X	0	0	0	%100
42	M164A	Z	0	0	0	%100
43	M166A	X	-3.512	-3.512	0	%100
44	M166A	Z	6.083	6.083	0	%100
45	M167A	X	-10.731	-10.731	0	%100
46	M167A	Z	18.586	18.586	0	%100
47	M169A	X	-11.302	-11.302	0	%100
48	M169A	Z	19.576	19.576	0	%100
49	M174A	X	-8.323	-8.323	0	%100
50	M174A	Z	14.416	14.416	0	%100
51	M175A	X	0	0	0	%100
52	M175A	Z	0	0	0	%100
53	M176A	X	0	0	0	%100
54	M176A	Z	0	0	0	%100
55	M177A	X	0	0	0	%100
56	M177A	Z	0	0	0	%100
57	M180A	X	-5.85	-5.85	0	%100
58	M180A	Z	10.133	10.133	0	%100
59	M181A	X	-5.85	-5.85	0	%100
60	M181A	Z	10.133	10.133	0	%100
61	M185A	X	-14.047	-14.047	0	%100
62	M185A	Z	24.33	24.33	0	%100
63	M186A	X	-10.731	-10.731	0	%100
64	M186A	Z	18.586	18.586	0	%100
65	M188A	X	-11.302	-11.302	0	%100
66	M188A	Z	19.576	19.576	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,%]
67	M190A	X	-14.047	-14.047	0	%100
68	M190A	Z	24.33	24.33	0	%100
69	M191A	X	-10.731	-10.731	0	%100
70	M191A	Z	18.586	18.586	0	%100
71	M193A	X	-11.302	-11.302	0	%100
72	M193A	Z	19.576	19.576	0	%100
73	M198A	X	-5.618	-5.618	0	%100
74	M198A	Z	9.731	9.731	0	%100
75	M199A	X	-5.618	-5.618	0	%100
76	M199A	Z	9.731	9.731	0	%100
77	M200A	X	0	0	0	%100
78	M200A	Z	0	0	0	%100
79	M201A	X	-4.17	-4.17	0	%100
80	M201A	Z	7.223	7.223	0	%100
81	M202A	X	-4.17	-4.17	0	%100
82	M202A	Z	7.223	7.223	0	%100
83	M203A	X	0	0	0	%100
84	M203A	Z	0	0	0	%100
85	M210A	X	-5.009	-5.009	0	%100
86	M210A	Z	8.675	8.675	0	%100
87	M211A	X	0	0	0	%100
88	M211A	Z	0	0	0	%100
89	M212A	X	-5.009	-5.009	0	%100
90	M212A	Z	8.675	8.675	0	%100
91	MP1A	X	-5.56	-5.56	0	%100
92	MP1A	Z	9.631	9.631	0	%100
93	MP2A	X	-5.56	-5.56	0	%100
94	MP2A	Z	9.631	9.631	0	%100
95	MP3A	X	-5.56	-5.56	0	%100
96	MP3A	Z	9.631	9.631	0	%100
97	MP4A	X	-5.56	-5.56	0	%100
98	MP4A	Z	9.631	9.631	0	%100
99	MP1C	X	-5.56	-5.56	0	%100
100	MP1C	Z	9.631	9.631	0	%100
101	MP2C	X	-5.56	-5.56	0	%100
102	MP2C	Z	9.631	9.631	0	%100
103	MP3C	X	-5.56	-5.56	0	%100
104	MP3C	Z	9.631	9.631	0	%100
105	MP4C	X	-5.56	-5.56	0	%100
106	MP4C	Z	9.631	9.631	0	%100
107	MP1B	X	-5.56	-5.56	0	%100
108	MP1B	Z	9.631	9.631	0	%100
109	MP2B	X	-5.56	-5.56	0	%100
110	MP2B	Z	9.631	9.631	0	%100
111	MP3B	X	-5.56	-5.56	0	%100
112	MP3B	Z	9.631	9.631	0	%100
113	MP4B	X	-5.56	-5.56	0	%100
114	MP4B	Z	9.631	9.631	0	%100
115	M125	X	-4.547	-4.547	0	%100
116	M125	Z	7.875	7.875	0	%100
117	M126	X	-4.058	-4.058	0	%100
118	M126	Z	7.029	7.029	0	%100
119	M127	X	-4.058	-4.058	0	%100
120	M127	Z	7.029	7.029	0	%100
121	M128	X	-7.804	-7.804	0	%100
122	M128	Z	13.517	13.517	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	M4	X	-10.812	-10.812	0	%100
2	M4	Z	6.242	6.242	0	%100
3	M10	X	-3.05	-3.05	0	%100
4	M10	Z	1.761	1.761	0	%100
5	M43	X	-3.05	-3.05	0	%100
6	M43	Z	1.761	1.761	0	%100
7	M46	X	-6.083	-6.083	0	%100
8	M46	Z	3.512	3.512	0	%100
9	M51B	X	-13.51	-13.51	0	%100
10	M51B	Z	7.8	7.8	0	%100
11	M52B	X	-3.378	-3.378	0	%100
12	M52B	Z	1.95	1.95	0	%100
13	M76	X	-18.248	-18.248	0	%100
14	M76	Z	10.535	10.535	0	%100
15	M77	X	-24.781	-24.781	0	%100
16	M77	Z	14.307	14.307	0	%100
17	M80	X	-26.101	-26.101	0	%100
18	M80	Z	15.07	15.07	0	%100
19	M84	X	-18.248	-18.248	0	%100
20	M84	Z	10.535	10.535	0	%100
21	M85	X	-6.195	-6.195	0	%100
22	M85	Z	3.577	3.577	0	%100
23	M91	X	-6.525	-6.525	0	%100
24	M91	Z	3.767	3.767	0	%100
25	M150A	X	0	0	0	%100
26	M150A	Z	0	0	0	%100
27	M151A	X	-12.198	-12.198	0	%100
28	M151A	Z	7.043	7.043	0	%100
29	M152A	X	-12.198	-12.198	0	%100
30	M152A	Z	7.043	7.043	0	%100
31	M153A	X	-24.33	-24.33	0	%100
32	M153A	Z	14.047	14.047	0	%100
33	M156A	X	-3.378	-3.378	0	%100
34	M156A	Z	1.95	1.95	0	%100
35	M157A	X	-3.378	-3.378	0	%100
36	M157A	Z	1.95	1.95	0	%100
37	M161A	X	0	0	0	%100
38	M161A	Z	0	0	0	%100
39	M162A	X	-6.195	-6.195	0	%100
40	M162A	Z	3.577	3.577	0	%100
41	M164A	X	-6.525	-6.525	0	%100
42	M164A	Z	3.767	3.767	0	%100
43	M166A	X	0	0	0	%100
44	M166A	Z	0	0	0	%100
45	M167A	X	-6.195	-6.195	0	%100
46	M167A	Z	3.577	3.577	0	%100
47	M169A	X	-6.525	-6.525	0	%100
48	M169A	Z	3.767	3.767	0	%100
49	M174A	X	-10.812	-10.812	0	%100
50	M174A	Z	6.242	6.242	0	%100
51	M175A	X	-3.05	-3.05	0	%100
52	M175A	Z	1.761	1.761	0	%100
53	M176A	X	-3.05	-3.05	0	%100
54	M176A	Z	1.761	1.761	0	%100
55	M177A	X	-6.083	-6.083	0	%100
56	M177A	Z	3.512	3.512	0	%100
57	M180A	X	-3.378	-3.378	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	M180A	Z	1.95	1.95	0	%100
59	M181A	X	-13.51	-13.51	0	%100
60	M181A	Z	7.8	7.8	0	%100
61	M185A	X	-18.248	-18.248	0	%100
62	M185A	Z	10.535	10.535	0	%100
63	M186A	X	-6.195	-6.195	0	%100
64	M186A	Z	3.577	3.577	0	%100
65	M188A	X	-6.525	-6.525	0	%100
66	M188A	Z	3.767	3.767	0	%100
67	M190A	X	-18.248	-18.248	0	%100
68	M190A	Z	10.535	10.535	0	%100
69	M191A	X	-24.781	-24.781	0	%100
70	M191A	Z	14.307	14.307	0	%100
71	M193A	X	-26.101	-26.101	0	%100
72	M193A	Z	15.07	15.07	0	%100
73	M198A	X	-3.244	-3.244	0	%100
74	M198A	Z	1.873	1.873	0	%100
75	M199A	X	-12.975	-12.975	0	%100
76	M199A	Z	7.491	7.491	0	%100
77	M200A	X	-3.244	-3.244	0	%100
78	M200A	Z	1.873	1.873	0	%100
79	M201A	X	-2.408	-2.408	0	%100
80	M201A	Z	1.39	1.39	0	%100
81	M202A	X	-9.631	-9.631	0	%100
82	M202A	Z	5.56	5.56	0	%100
83	M203A	X	-2.408	-2.408	0	%100
84	M203A	Z	1.39	1.39	0	%100
85	M210A	X	-11.567	-11.567	0	%100
86	M210A	Z	6.678	6.678	0	%100
87	M211A	X	-2.892	-2.892	0	%100
88	M211A	Z	1.67	1.67	0	%100
89	M212A	X	-2.892	-2.892	0	%100
90	M212A	Z	1.67	1.67	0	%100
91	MP1A	X	-9.631	-9.631	0	%100
92	MP1A	Z	5.56	5.56	0	%100
93	MP2A	X	-9.631	-9.631	0	%100
94	MP2A	Z	5.56	5.56	0	%100
95	MP3A	X	-9.631	-9.631	0	%100
96	MP3A	Z	5.56	5.56	0	%100
97	MP4A	X	-9.631	-9.631	0	%100
98	MP4A	Z	5.56	5.56	0	%100
99	MP1C	X	-9.631	-9.631	0	%100
100	MP1C	Z	5.56	5.56	0	%100
101	MP2C	X	-9.631	-9.631	0	%100
102	MP2C	Z	5.56	5.56	0	%100
103	MP3C	X	-9.631	-9.631	0	%100
104	MP3C	Z	5.56	5.56	0	%100
105	MP4C	X	-9.631	-9.631	0	%100
106	MP4C	Z	5.56	5.56	0	%100
107	MP1B	X	-9.631	-9.631	0	%100
108	MP1B	Z	5.56	5.56	0	%100
109	MP2B	X	-9.631	-9.631	0	%100
110	MP2B	Z	5.56	5.56	0	%100
111	MP3B	X	-9.631	-9.631	0	%100
112	MP3B	Z	5.56	5.56	0	%100
113	MP4B	X	-9.631	-9.631	0	%100
114	MP4B	Z	5.56	5.56	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,%]
115	M125	X	-7.875	-7.875	0	%100
116	M125	Z	4.547	4.547	0	%100
117	M126	X	-4.866	-4.866	0	%100
118	M126	Z	2.809	2.809	0	%100
119	M127	X	-11.354	-11.354	0	%100
120	M127	Z	6.555	6.555	0	%100
121	M128	X	-11.354	-11.354	0	%100
122	M128	Z	6.555	6.555	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	M4	X	-16.646	-16.646	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	0	0	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	0	0	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	0	0	0	%100
9	M51B	X	-11.7	-11.7	0	%100
10	M51B	Z	0	0	0	%100
11	M52B	X	-11.7	-11.7	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	-28.094	-28.094	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	-21.461	-21.461	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	-22.604	-22.604	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	-28.094	-28.094	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	-21.461	-21.461	0	%100
22	M85	Z	0	0	0	%100
23	M91	X	-22.604	-22.604	0	%100
24	M91	Z	0	0	0	%100
25	M150A	X	-4.161	-4.161	0	%100
26	M150A	Z	0	0	0	%100
27	M151A	X	-10.564	-10.564	0	%100
28	M151A	Z	0	0	0	%100
29	M152A	X	-10.564	-10.564	0	%100
30	M152A	Z	0	0	0	%100
31	M153A	X	-21.071	-21.071	0	%100
32	M153A	Z	0	0	0	%100
33	M156A	X	-11.7	-11.7	0	%100
34	M156A	Z	0	0	0	%100
35	M157A	X	0	0	0	%100
36	M157A	Z	0	0	0	%100
37	M161A	X	-7.024	-7.024	0	%100
38	M161A	Z	0	0	0	%100
39	M162A	X	-21.461	-21.461	0	%100
40	M162A	Z	0	0	0	%100
41	M164A	X	-22.604	-22.604	0	%100
42	M164A	Z	0	0	0	%100
43	M166A	X	-7.024	-7.024	0	%100
44	M166A	Z	0	0	0	%100
45	M167A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
46	M167A	Z	0	0	0	%100
47	M169A	X	0	0	0	%100
48	M169A	Z	0	0	0	%100
49	M174A	X	-4.161	-4.161	0	%100
50	M174A	Z	0	0	0	%100
51	M175A	X	-10.564	-10.564	0	%100
52	M175A	Z	0	0	0	%100
53	M176A	X	-10.564	-10.564	0	%100
54	M176A	Z	0	0	0	%100
55	M177A	X	-21.071	-21.071	0	%100
56	M177A	Z	0	0	0	%100
57	M180A	X	0	0	0	%100
58	M180A	Z	0	0	0	%100
59	M181A	X	-11.7	-11.7	0	%100
60	M181A	Z	0	0	0	%100
61	M185A	X	-7.024	-7.024	0	%100
62	M185A	Z	0	0	0	%100
63	M186A	X	0	0	0	%100
64	M186A	Z	0	0	0	%100
65	M188A	X	0	0	0	%100
66	M188A	Z	0	0	0	%100
67	M190A	X	-7.024	-7.024	0	%100
68	M190A	Z	0	0	0	%100
69	M191A	X	-21.461	-21.461	0	%100
70	M191A	Z	0	0	0	%100
71	M193A	X	-22.604	-22.604	0	%100
72	M193A	Z	0	0	0	%100
73	M198A	X	0	0	0	%100
74	M198A	Z	0	0	0	%100
75	M199A	X	-11.237	-11.237	0	%100
76	M199A	Z	0	0	0	%100
77	M200A	X	-11.237	-11.237	0	%100
78	M200A	Z	0	0	0	%100
79	M201A	X	0	0	0	%100
80	M201A	Z	0	0	0	%100
81	M202A	X	-8.341	-8.341	0	%100
82	M202A	Z	0	0	0	%100
83	M203A	X	-8.341	-8.341	0	%100
84	M203A	Z	0	0	0	%100
85	M210A	X	-10.017	-10.017	0	%100
86	M210A	Z	0	0	0	%100
87	M211A	X	-10.017	-10.017	0	%100
88	M211A	Z	0	0	0	%100
89	M212A	X	0	0	0	%100
90	M212A	Z	0	0	0	%100
91	MP1A	X	-11.121	-11.121	0	%100
92	MP1A	Z	0	0	0	%100
93	MP2A	X	-11.121	-11.121	0	%100
94	MP2A	Z	0	0	0	%100
95	MP3A	X	-11.121	-11.121	0	%100
96	MP3A	Z	0	0	0	%100
97	MP4A	X	-11.121	-11.121	0	%100
98	MP4A	Z	0	0	0	%100
99	MP1C	X	-11.121	-11.121	0	%100
100	MP1C	Z	0	0	0	%100
101	MP2C	X	-11.121	-11.121	0	%100
102	MP2C	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
103	MP3C	X	-11.121	-11.121	0	%100
104	MP3C	Z	0	0	0	%100
105	MP4C	X	-11.121	-11.121	0	%100
106	MP4C	Z	0	0	0	%100
107	MP1B	X	-11.121	-11.121	0	%100
108	MP1B	Z	0	0	0	%100
109	MP2B	X	-11.121	-11.121	0	%100
110	MP2B	Z	0	0	0	%100
111	MP3B	X	-11.121	-11.121	0	%100
112	MP3B	Z	0	0	0	%100
113	MP4B	X	-11.121	-11.121	0	%100
114	MP4B	Z	0	0	0	%100
115	M125	X	-9.094	-9.094	0	%100
116	M125	Z	0	0	0	%100
117	M126	X	-8.116	-8.116	0	%100
118	M126	Z	0	0	0	%100
119	M127	X	-15.608	-15.608	0	%100
120	M127	Z	0	0	0	%100
121	M128	X	-8.116	-8.116	0	%100
122	M128	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	M4	X	-10.812	-10.812	0	%100
2	M4	Z	-6.242	-6.242	0	%100
3	M10	X	-3.05	-3.05	0	%100
4	M10	Z	-1.761	-1.761	0	%100
5	M43	X	-3.05	-3.05	0	%100
6	M43	Z	-1.761	-1.761	0	%100
7	M46	X	-6.083	-6.083	0	%100
8	M46	Z	-3.512	-3.512	0	%100
9	M51B	X	-3.378	-3.378	0	%100
10	M51B	Z	-1.95	-1.95	0	%100
11	M52B	X	-13.51	-13.51	0	%100
12	M52B	Z	-7.8	-7.8	0	%100
13	M76	X	-18.248	-18.248	0	%100
14	M76	Z	-10.535	-10.535	0	%100
15	M77	X	-6.195	-6.195	0	%100
16	M77	Z	-3.577	-3.577	0	%100
17	M80	X	-6.525	-6.525	0	%100
18	M80	Z	-3.767	-3.767	0	%100
19	M84	X	-18.248	-18.248	0	%100
20	M84	Z	-10.535	-10.535	0	%100
21	M85	X	-24.781	-24.781	0	%100
22	M85	Z	-14.307	-14.307	0	%100
23	M91	X	-26.101	-26.101	0	%100
24	M91	Z	-15.07	-15.07	0	%100
25	M150A	X	-10.812	-10.812	0	%100
26	M150A	Z	-6.242	-6.242	0	%100
27	M151A	X	-3.05	-3.05	0	%100
28	M151A	Z	-1.761	-1.761	0	%100
29	M152A	X	-3.05	-3.05	0	%100
30	M152A	Z	-1.761	-1.761	0	%100
31	M153A	X	-6.083	-6.083	0	%100
32	M153A	Z	-3.512	-3.512	0	%100
33	M156A	X	-13.51	-13.51	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,%]
34	M156A	Z	-7.8	-7.8	0	%100
35	M157A	X	-3.378	-3.378	0	%100
36	M157A	Z	-1.95	-1.95	0	%100
37	M161A	X	-18.248	-18.248	0	%100
38	M161A	Z	-10.535	-10.535	0	%100
39	M162A	X	-24.781	-24.781	0	%100
40	M162A	Z	-14.307	-14.307	0	%100
41	M164A	X	-26.101	-26.101	0	%100
42	M164A	Z	-15.07	-15.07	0	%100
43	M166A	X	-18.248	-18.248	0	%100
44	M166A	Z	-10.535	-10.535	0	%100
45	M167A	X	-6.195	-6.195	0	%100
46	M167A	Z	-3.577	-3.577	0	%100
47	M169A	X	-6.525	-6.525	0	%100
48	M169A	Z	-3.767	-3.767	0	%100
49	M174A	X	0	0	0	%100
50	M174A	Z	0	0	0	%100
51	M175A	X	-12.198	-12.198	0	%100
52	M175A	Z	-7.043	-7.043	0	%100
53	M176A	X	-12.198	-12.198	0	%100
54	M176A	Z	-7.043	-7.043	0	%100
55	M177A	X	-24.33	-24.33	0	%100
56	M177A	Z	-14.047	-14.047	0	%100
57	M180A	X	-3.378	-3.378	0	%100
58	M180A	Z	-1.95	-1.95	0	%100
59	M181A	X	-3.378	-3.378	0	%100
60	M181A	Z	-1.95	-1.95	0	%100
61	M185A	X	0	0	0	%100
62	M185A	Z	0	0	0	%100
63	M186A	X	-6.195	-6.195	0	%100
64	M186A	Z	-3.577	-3.577	0	%100
65	M188A	X	-6.525	-6.525	0	%100
66	M188A	Z	-3.767	-3.767	0	%100
67	M190A	X	0	0	0	%100
68	M190A	Z	0	0	0	%100
69	M191A	X	-6.195	-6.195	0	%100
70	M191A	Z	-3.577	-3.577	0	%100
71	M193A	X	-6.525	-6.525	0	%100
72	M193A	Z	-3.767	-3.767	0	%100
73	M198A	X	-3.244	-3.244	0	%100
74	M198A	Z	-1.873	-1.873	0	%100
75	M199A	X	-3.244	-3.244	0	%100
76	M199A	Z	-1.873	-1.873	0	%100
77	M200A	X	-12.975	-12.975	0	%100
78	M200A	Z	-7.491	-7.491	0	%100
79	M201A	X	-2.408	-2.408	0	%100
80	M201A	Z	-1.39	-1.39	0	%100
81	M202A	X	-2.408	-2.408	0	%100
82	M202A	Z	-1.39	-1.39	0	%100
83	M203A	X	-9.631	-9.631	0	%100
84	M203A	Z	-5.56	-5.56	0	%100
85	M210A	X	-2.892	-2.892	0	%100
86	M210A	Z	-1.67	-1.67	0	%100
87	M211A	X	-11.567	-11.567	0	%100
88	M211A	Z	-6.678	-6.678	0	%100
89	M212A	X	-2.892	-2.892	0	%100
90	M212A	Z	-1.67	-1.67	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,%]
91	MP1A	X	-9.631	-9.631	0	%100
92	MP1A	Z	-5.56	-5.56	0	%100
93	MP2A	X	-9.631	-9.631	0	%100
94	MP2A	Z	-5.56	-5.56	0	%100
95	MP3A	X	-9.631	-9.631	0	%100
96	MP3A	Z	-5.56	-5.56	0	%100
97	MP4A	X	-9.631	-9.631	0	%100
98	MP4A	Z	-5.56	-5.56	0	%100
99	MP1C	X	-9.631	-9.631	0	%100
100	MP1C	Z	-5.56	-5.56	0	%100
101	MP2C	X	-9.631	-9.631	0	%100
102	MP2C	Z	-5.56	-5.56	0	%100
103	MP3C	X	-9.631	-9.631	0	%100
104	MP3C	Z	-5.56	-5.56	0	%100
105	MP4C	X	-9.631	-9.631	0	%100
106	MP4C	Z	-5.56	-5.56	0	%100
107	MP1B	X	-9.631	-9.631	0	%100
108	MP1B	Z	-5.56	-5.56	0	%100
109	MP2B	X	-9.631	-9.631	0	%100
110	MP2B	Z	-5.56	-5.56	0	%100
111	MP3B	X	-9.631	-9.631	0	%100
112	MP3B	Z	-5.56	-5.56	0	%100
113	MP4B	X	-9.631	-9.631	0	%100
114	MP4B	Z	-5.56	-5.56	0	%100
115	M125	X	-7.875	-7.875	0	%100
116	M125	Z	-4.547	-4.547	0	%100
117	M126	X	-11.354	-11.354	0	%100
118	M126	Z	-6.555	-6.555	0	%100
119	M127	X	-11.354	-11.354	0	%100
120	M127	Z	-6.555	-6.555	0	%100
121	M128	X	-4.866	-4.866	0	%100
122	M128	Z	-2.809	-2.809	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	M4	X	-2.081	-2.081	0	%100
2	M4	Z	-3.604	-3.604	0	%100
3	M10	X	-5.282	-5.282	0	%100
4	M10	Z	-9.149	-9.149	0	%100
5	M43	X	-5.282	-5.282	0	%100
6	M43	Z	-9.149	-9.149	0	%100
7	M46	X	-10.535	-10.535	0	%100
8	M46	Z	-18.248	-18.248	0	%100
9	M51B	X	0	0	0	%100
10	M51B	Z	0	0	0	%100
11	M52B	X	-5.85	-5.85	0	%100
12	M52B	Z	-10.133	-10.133	0	%100
13	M76	X	-3.512	-3.512	0	%100
14	M76	Z	-6.083	-6.083	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	-3.512	-3.512	0	%100
20	M84	Z	-6.083	-6.083	0	%100
21	M85	X	-10.731	-10.731	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,%]
22	M85	Z	-18.586	-18.586	0	%100
23	M91	X	-11.302	-11.302	0	%100
24	M91	Z	-19.576	-19.576	0	%100
25	M150A	X	-8.323	-8.323	0	%100
26	M150A	Z	-14.416	-14.416	0	%100
27	M151A	X	0	0	0	%100
28	M151A	Z	0	0	0	%100
29	M152A	X	0	0	0	%100
30	M152A	Z	0	0	0	%100
31	M153A	X	0	0	0	%100
32	M153A	Z	0	0	0	%100
33	M156A	X	-5.85	-5.85	0	%100
34	M156A	Z	-10.133	-10.133	0	%100
35	M157A	X	-5.85	-5.85	0	%100
36	M157A	Z	-10.133	-10.133	0	%100
37	M161A	X	-14.047	-14.047	0	%100
38	M161A	Z	-24.33	-24.33	0	%100
39	M162A	X	-10.731	-10.731	0	%100
40	M162A	Z	-18.586	-18.586	0	%100
41	M164A	X	-11.302	-11.302	0	%100
42	M164A	Z	-19.576	-19.576	0	%100
43	M166A	X	-14.047	-14.047	0	%100
44	M166A	Z	-24.33	-24.33	0	%100
45	M167A	X	-10.731	-10.731	0	%100
46	M167A	Z	-18.586	-18.586	0	%100
47	M169A	X	-11.302	-11.302	0	%100
48	M169A	Z	-19.576	-19.576	0	%100
49	M174A	X	-2.081	-2.081	0	%100
50	M174A	Z	-3.604	-3.604	0	%100
51	M175A	X	-5.282	-5.282	0	%100
52	M175A	Z	-9.149	-9.149	0	%100
53	M176A	X	-5.282	-5.282	0	%100
54	M176A	Z	-9.149	-9.149	0	%100
55	M177A	X	-10.535	-10.535	0	%100
56	M177A	Z	-18.248	-18.248	0	%100
57	M180A	X	-5.85	-5.85	0	%100
58	M180A	Z	-10.133	-10.133	0	%100
59	M181A	X	0	0	0	%100
60	M181A	Z	0	0	0	%100
61	M185A	X	-3.512	-3.512	0	%100
62	M185A	Z	-6.083	-6.083	0	%100
63	M186A	X	-10.731	-10.731	0	%100
64	M186A	Z	-18.586	-18.586	0	%100
65	M188A	X	-11.302	-11.302	0	%100
66	M188A	Z	-19.576	-19.576	0	%100
67	M190A	X	-3.512	-3.512	0	%100
68	M190A	Z	-6.083	-6.083	0	%100
69	M191A	X	0	0	0	%100
70	M191A	Z	0	0	0	%100
71	M193A	X	0	0	0	%100
72	M193A	Z	0	0	0	%100
73	M198A	X	-5.618	-5.618	0	%100
74	M198A	Z	-9.731	-9.731	0	%100
75	M199A	X	0	0	0	%100
76	M199A	Z	0	0	0	%100
77	M200A	X	-5.618	-5.618	0	%100
78	M200A	Z	-9.731	-9.731	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,%]
79	M201A	X	-4.17	-4.17	0	%100
80	M201A	Z	-7.223	-7.223	0	%100
81	M202A	X	0	0	0	%100
82	M202A	Z	0	0	0	%100
83	M203A	X	-4.17	-4.17	0	%100
84	M203A	Z	-7.223	-7.223	0	%100
85	M210A	X	0	0	0	%100
86	M210A	Z	0	0	0	%100
87	M211A	X	-5.009	-5.009	0	%100
88	M211A	Z	-8.675	-8.675	0	%100
89	M212A	X	-5.009	-5.009	0	%100
90	M212A	Z	-8.675	-8.675	0	%100
91	MP1A	X	-5.56	-5.56	0	%100
92	MP1A	Z	-9.631	-9.631	0	%100
93	MP2A	X	-5.56	-5.56	0	%100
94	MP2A	Z	-9.631	-9.631	0	%100
95	MP3A	X	-5.56	-5.56	0	%100
96	MP3A	Z	-9.631	-9.631	0	%100
97	MP4A	X	-5.56	-5.56	0	%100
98	MP4A	Z	-9.631	-9.631	0	%100
99	MP1C	X	-5.56	-5.56	0	%100
100	MP1C	Z	-9.631	-9.631	0	%100
101	MP2C	X	-5.56	-5.56	0	%100
102	MP2C	Z	-9.631	-9.631	0	%100
103	MP3C	X	-5.56	-5.56	0	%100
104	MP3C	Z	-9.631	-9.631	0	%100
105	MP4C	X	-5.56	-5.56	0	%100
106	MP4C	Z	-9.631	-9.631	0	%100
107	MP1B	X	-5.56	-5.56	0	%100
108	MP1B	Z	-9.631	-9.631	0	%100
109	MP2B	X	-5.56	-5.56	0	%100
110	MP2B	Z	-9.631	-9.631	0	%100
111	MP3B	X	-5.56	-5.56	0	%100
112	MP3B	Z	-9.631	-9.631	0	%100
113	MP4B	X	-5.56	-5.56	0	%100
114	MP4B	Z	-9.631	-9.631	0	%100
115	M125	X	-4.547	-4.547	0	%100
116	M125	Z	-7.875	-7.875	0	%100
117	M126	X	-7.804	-7.804	0	%100
118	M126	Z	-13.517	-13.517	0	%100
119	M127	X	-4.058	-4.058	0	%100
120	M127	Z	-7.029	-7.029	0	%100
121	M128	X	-4.058	-4.058	0	%100
122	M128	Z	-7.029	-7.029	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	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	-3.719	-3.719	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	-3.719	-3.719	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	-5.803	-5.803	0	%100
9	M51B	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,%]
10	M51B	Z	-1.069	-1.069	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	-1.069	-1.069	0	%100
13	M76	X	0	0	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	-1.449	-1.449	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	-1.512	-1.512	0	%100
19	M84	X	0	0	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	0	0	0	%100
22	M85	Z	-1.449	-1.449	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	-1.512	-1.512	0	%100
25	M150A	X	0	0	0	%100
26	M150A	Z	-3.435	-3.435	0	%100
27	M151A	X	0	0	0	%100
28	M151A	Z	-.93	-.93	0	%100
29	M152A	X	0	0	0	%100
30	M152A	Z	-.93	-.93	0	%100
31	M153A	X	0	0	0	%100
32	M153A	Z	-1.451	-1.451	0	%100
33	M156A	X	0	0	0	%100
34	M156A	Z	-1.069	-1.069	0	%100
35	M157A	X	0	0	0	%100
36	M157A	Z	-4.276	-4.276	0	%100
37	M161A	X	0	0	0	%100
38	M161A	Z	-4.282	-4.282	0	%100
39	M162A	X	0	0	0	%100
40	M162A	Z	-1.449	-1.449	0	%100
41	M164A	X	0	0	0	%100
42	M164A	Z	-1.512	-1.512	0	%100
43	M166A	X	0	0	0	%100
44	M166A	Z	-4.282	-4.282	0	%100
45	M167A	X	0	0	0	%100
46	M167A	Z	-5.796	-5.796	0	%100
47	M169A	X	0	0	0	%100
48	M169A	Z	-6.048	-6.048	0	%100
49	M174A	X	0	0	0	%100
50	M174A	Z	-3.435	-3.435	0	%100
51	M175A	X	0	0	0	%100
52	M175A	Z	-.93	-.93	0	%100
53	M176A	X	0	0	0	%100
54	M176A	Z	-.93	-.93	0	%100
55	M177A	X	0	0	0	%100
56	M177A	Z	-1.451	-1.451	0	%100
57	M180A	X	0	0	0	%100
58	M180A	Z	-4.276	-4.276	0	%100
59	M181A	X	0	0	0	%100
60	M181A	Z	-1.069	-1.069	0	%100
61	M185A	X	0	0	0	%100
62	M185A	Z	-4.282	-4.282	0	%100
63	M186A	X	0	0	0	%100
64	M186A	Z	-5.796	-5.796	0	%100
65	M188A	X	0	0	0	%100
66	M188A	Z	-6.048	-6.048	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,%]
67	M190A	X	0	0	0	%100
68	M190A	Z	-4.282	-4.282	0	%100
69	M191A	X	0	0	0	%100
70	M191A	Z	-1.449	-1.449	0	%100
71	M193A	X	0	0	0	%100
72	M193A	Z	-1.512	-1.512	0	%100
73	M198A	X	0	0	0	%100
74	M198A	Z	-4.538	-4.538	0	%100
75	M199A	X	0	0	0	%100
76	M199A	Z	-1.135	-1.135	0	%100
77	M200A	X	0	0	0	%100
78	M200A	Z	-1.135	-1.135	0	%100
79	M201A	X	0	0	0	%100
80	M201A	Z	-3.668	-3.668	0	%100
81	M202A	X	0	0	0	%100
82	M202A	Z	-.917	-.917	0	%100
83	M203A	X	0	0	0	%100
84	M203A	Z	-.917	-.917	0	%100
85	M210A	X	0	0	0	%100
86	M210A	Z	-.854	-.854	0	%100
87	M211A	X	0	0	0	%100
88	M211A	Z	-.854	-.854	0	%100
89	M212A	X	0	0	0	%100
90	M212A	Z	-3.416	-3.416	0	%100
91	MP1A	X	0	0	0	%100
92	MP1A	Z	-3.668	-3.668	0	%100
93	MP2A	X	0	0	0	%100
94	MP2A	Z	-3.668	-3.668	0	%100
95	MP3A	X	0	0	0	%100
96	MP3A	Z	-3.668	-3.668	0	%100
97	MP4A	X	0	0	0	%100
98	MP4A	Z	-3.668	-3.668	0	%100
99	MP1C	X	0	0	0	%100
100	MP1C	Z	-3.668	-3.668	0	%100
101	MP2C	X	0	0	0	%100
102	MP2C	Z	-3.668	-3.668	0	%100
103	MP3C	X	0	0	0	%100
104	MP3C	Z	-3.668	-3.668	0	%100
105	MP4C	X	0	0	0	%100
106	MP4C	Z	-3.668	-3.668	0	%100
107	MP1B	X	0	0	0	%100
108	MP1B	Z	-3.668	-3.668	0	%100
109	MP2B	X	0	0	0	%100
110	MP2B	Z	-3.668	-3.668	0	%100
111	MP3B	X	0	0	0	%100
112	MP3B	Z	-3.668	-3.668	0	%100
113	MP4B	X	0	0	0	%100
114	MP4B	Z	-3.668	-3.668	0	%100
115	M125	X	0	0	0	%100
116	M125	Z	-3.001	-3.001	0	%100
117	M126	X	0	0	0	%100
118	M126	Z	-3.594	-3.594	0	%100
119	M127	X	0	0	0	%100
120	M127	Z	-1.54	-1.54	0	%100
121	M128	X	0	0	0	%100
122	M128	Z	-3.594	-3.594	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	M4	X	.573	.573	0	%100
2	M4	Z	-.992	-.992	0	%100
3	M10	X	1.394	1.394	0	%100
4	M10	Z	-2.415	-2.415	0	%100
5	M43	X	1.394	1.394	0	%100
6	M43	Z	-2.415	-2.415	0	%100
7	M46	X	2.176	2.176	0	%100
8	M46	Z	-3.769	-3.769	0	%100
9	M51B	X	1.604	1.604	0	%100
10	M51B	Z	-2.778	-2.778	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	.714	.714	0	%100
14	M76	Z	-1.236	-1.236	0	%100
15	M77	X	2.173	2.173	0	%100
16	M77	Z	-3.765	-3.765	0	%100
17	M80	X	2.268	2.268	0	%100
18	M80	Z	-3.928	-3.928	0	%100
19	M84	X	.714	.714	0	%100
20	M84	Z	-1.236	-1.236	0	%100
21	M85	X	0	0	0	%100
22	M85	Z	0	0	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	0	0	0	%100
25	M150A	X	.573	.573	0	%100
26	M150A	Z	-.992	-.992	0	%100
27	M151A	X	1.394	1.394	0	%100
28	M151A	Z	-2.415	-2.415	0	%100
29	M152A	X	1.394	1.394	0	%100
30	M152A	Z	-2.415	-2.415	0	%100
31	M153A	X	2.176	2.176	0	%100
32	M153A	Z	-3.769	-3.769	0	%100
33	M156A	X	0	0	0	%100
34	M156A	Z	0	0	0	%100
35	M157A	X	1.604	1.604	0	%100
36	M157A	Z	-2.778	-2.778	0	%100
37	M161A	X	.714	.714	0	%100
38	M161A	Z	-1.236	-1.236	0	%100
39	M162A	X	0	0	0	%100
40	M162A	Z	0	0	0	%100
41	M164A	X	0	0	0	%100
42	M164A	Z	0	0	0	%100
43	M166A	X	.714	.714	0	%100
44	M166A	Z	-1.236	-1.236	0	%100
45	M167A	X	2.173	2.173	0	%100
46	M167A	Z	-3.765	-3.765	0	%100
47	M169A	X	2.268	2.268	0	%100
48	M169A	Z	-3.928	-3.928	0	%100
49	M174A	X	2.29	2.29	0	%100
50	M174A	Z	-3.967	-3.967	0	%100
51	M175A	X	0	0	0	%100
52	M175A	Z	0	0	0	%100
53	M176A	X	0	0	0	%100
54	M176A	Z	0	0	0	%100
55	M177A	X	0	0	0	%100
56	M177A	Z	0	0	0	%100
57	M180A	X	1.604	1.604	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	M180A	Z	-2.778	-2.778	0	%100
59	M181A	X	1.604	1.604	0	%100
60	M181A	Z	-2.778	-2.778	0	%100
61	M185A	X	2.855	2.855	0	%100
62	M185A	Z	-4.945	-4.945	0	%100
63	M186A	X	2.173	2.173	0	%100
64	M186A	Z	-3.765	-3.765	0	%100
65	M188A	X	2.268	2.268	0	%100
66	M188A	Z	-3.928	-3.928	0	%100
67	M190A	X	2.855	2.855	0	%100
68	M190A	Z	-4.945	-4.945	0	%100
69	M191A	X	2.173	2.173	0	%100
70	M191A	Z	-3.765	-3.765	0	%100
71	M193A	X	2.268	2.268	0	%100
72	M193A	Z	-3.928	-3.928	0	%100
73	M198A	X	1.702	1.702	0	%100
74	M198A	Z	-2.948	-2.948	0	%100
75	M199A	X	1.702	1.702	0	%100
76	M199A	Z	-2.948	-2.948	0	%100
77	M200A	X	0	0	0	%100
78	M200A	Z	0	0	0	%100
79	M201A	X	1.375	1.375	0	%100
80	M201A	Z	-2.382	-2.382	0	%100
81	M202A	X	1.375	1.375	0	%100
82	M202A	Z	-2.382	-2.382	0	%100
83	M203A	X	0	0	0	%100
84	M203A	Z	0	0	0	%100
85	M210A	X	1.281	1.281	0	%100
86	M210A	Z	-2.219	-2.219	0	%100
87	M211A	X	0	0	0	%100
88	M211A	Z	0	0	0	%100
89	M212A	X	1.281	1.281	0	%100
90	M212A	Z	-2.219	-2.219	0	%100
91	MP1A	X	1.834	1.834	0	%100
92	MP1A	Z	-3.176	-3.176	0	%100
93	MP2A	X	1.834	1.834	0	%100
94	MP2A	Z	-3.176	-3.176	0	%100
95	MP3A	X	1.834	1.834	0	%100
96	MP3A	Z	-3.176	-3.176	0	%100
97	MP4A	X	1.834	1.834	0	%100
98	MP4A	Z	-3.176	-3.176	0	%100
99	MP1C	X	1.834	1.834	0	%100
100	MP1C	Z	-3.176	-3.176	0	%100
101	MP2C	X	1.834	1.834	0	%100
102	MP2C	Z	-3.176	-3.176	0	%100
103	MP3C	X	1.834	1.834	0	%100
104	MP3C	Z	-3.176	-3.176	0	%100
105	MP4C	X	1.834	1.834	0	%100
106	MP4C	Z	-3.176	-3.176	0	%100
107	MP1B	X	1.834	1.834	0	%100
108	MP1B	Z	-3.176	-3.176	0	%100
109	MP2B	X	1.834	1.834	0	%100
110	MP2B	Z	-3.176	-3.176	0	%100
111	MP3B	X	1.834	1.834	0	%100
112	MP3B	Z	-3.176	-3.176	0	%100
113	MP4B	X	1.834	1.834	0	%100
114	MP4B	Z	-3.176	-3.176	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,%]
115	M125	X	1.501	1.501	0	%100
116	M125	Z	-2.599	-2.599	0	%100
117	M126	X	1.112	1.112	0	%100
118	M126	Z	-1.927	-1.927	0	%100
119	M127	X	1.112	1.112	0	%100
120	M127	Z	-1.927	-1.927	0	%100
121	M128	X	2.139	2.139	0	%100
122	M128	Z	-3.705	-3.705	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	M4	X	2.975	2.975	0	%100
2	M4	Z	-1.718	-1.718	0	%100
3	M10	X	.805	.805	0	%100
4	M10	Z	-.465	-.465	0	%100
5	M43	X	.805	.805	0	%100
6	M43	Z	-.465	-.465	0	%100
7	M46	X	1.256	1.256	0	%100
8	M46	Z	-.725	-.725	0	%100
9	M51B	X	3.703	3.703	0	%100
10	M51B	Z	-2.138	-2.138	0	%100
11	M52B	X	.926	.926	0	%100
12	M52B	Z	-.535	-.535	0	%100
13	M76	X	3.709	3.709	0	%100
14	M76	Z	-2.141	-2.141	0	%100
15	M77	X	5.019	5.019	0	%100
16	M77	Z	-2.898	-2.898	0	%100
17	M80	X	5.238	5.238	0	%100
18	M80	Z	-3.024	-3.024	0	%100
19	M84	X	3.709	3.709	0	%100
20	M84	Z	-2.141	-2.141	0	%100
21	M85	X	1.255	1.255	0	%100
22	M85	Z	-.724	-.724	0	%100
23	M91	X	1.309	1.309	0	%100
24	M91	Z	-.756	-.756	0	%100
25	M150A	X	0	0	0	%100
26	M150A	Z	0	0	0	%100
27	M151A	X	3.22	3.22	0	%100
28	M151A	Z	-1.859	-1.859	0	%100
29	M152A	X	3.22	3.22	0	%100
30	M152A	Z	-1.859	-1.859	0	%100
31	M153A	X	5.025	5.025	0	%100
32	M153A	Z	-2.901	-2.901	0	%100
33	M156A	X	.926	.926	0	%100
34	M156A	Z	-.535	-.535	0	%100
35	M157A	X	.926	.926	0	%100
36	M157A	Z	-.535	-.535	0	%100
37	M161A	X	0	0	0	%100
38	M161A	Z	0	0	0	%100
39	M162A	X	1.255	1.255	0	%100
40	M162A	Z	-.724	-.724	0	%100
41	M164A	X	1.309	1.309	0	%100
42	M164A	Z	-.756	-.756	0	%100
43	M166A	X	0	0	0	%100
44	M166A	Z	0	0	0	%100
45	M167A	X	1.255	1.255	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,%]
46	M167A	Z	-.724	-.724	0	%100
47	M169A	X	1.309	1.309	0	%100
48	M169A	Z	-.756	-.756	0	%100
49	M174A	X	2.975	2.975	0	%100
50	M174A	Z	-1.718	-1.718	0	%100
51	M175A	X	.805	.805	0	%100
52	M175A	Z	-.465	-.465	0	%100
53	M176A	X	.805	.805	0	%100
54	M176A	Z	-.465	-.465	0	%100
55	M177A	X	1.256	1.256	0	%100
56	M177A	Z	-.725	-.725	0	%100
57	M180A	X	.926	.926	0	%100
58	M180A	Z	-.535	-.535	0	%100
59	M181A	X	3.703	3.703	0	%100
60	M181A	Z	-2.138	-2.138	0	%100
61	M185A	X	3.709	3.709	0	%100
62	M185A	Z	-2.141	-2.141	0	%100
63	M186A	X	1.255	1.255	0	%100
64	M186A	Z	-.724	-.724	0	%100
65	M188A	X	1.309	1.309	0	%100
66	M188A	Z	-.756	-.756	0	%100
67	M190A	X	3.709	3.709	0	%100
68	M190A	Z	-2.141	-2.141	0	%100
69	M191A	X	5.019	5.019	0	%100
70	M191A	Z	-2.898	-2.898	0	%100
71	M193A	X	5.238	5.238	0	%100
72	M193A	Z	-3.024	-3.024	0	%100
73	M198A	X	.983	.983	0	%100
74	M198A	Z	-.567	-.567	0	%100
75	M199A	X	3.93	3.93	0	%100
76	M199A	Z	-2.269	-2.269	0	%100
77	M200A	X	.983	.983	0	%100
78	M200A	Z	-.567	-.567	0	%100
79	M201A	X	.794	.794	0	%100
80	M201A	Z	-.458	-.458	0	%100
81	M202A	X	3.176	3.176	0	%100
82	M202A	Z	-1.834	-1.834	0	%100
83	M203A	X	.794	.794	0	%100
84	M203A	Z	-.458	-.458	0	%100
85	M210A	X	2.958	2.958	0	%100
86	M210A	Z	-1.708	-1.708	0	%100
87	M211A	X	.74	.74	0	%100
88	M211A	Z	-.427	-.427	0	%100
89	M212A	X	.74	.74	0	%100
90	M212A	Z	-.427	-.427	0	%100
91	MP1A	X	3.176	3.176	0	%100
92	MP1A	Z	-1.834	-1.834	0	%100
93	MP2A	X	3.176	3.176	0	%100
94	MP2A	Z	-1.834	-1.834	0	%100
95	MP3A	X	3.176	3.176	0	%100
96	MP3A	Z	-1.834	-1.834	0	%100
97	MP4A	X	3.176	3.176	0	%100
98	MP4A	Z	-1.834	-1.834	0	%100
99	MP1C	X	3.176	3.176	0	%100
100	MP1C	Z	-1.834	-1.834	0	%100
101	MP2C	X	3.176	3.176	0	%100
102	MP2C	Z	-1.834	-1.834	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,%]
103	MP3C	X	3.176	3.176	0	%100
104	MP3C	Z	-1.834	-1.834	0	%100
105	MP4C	X	3.176	3.176	0	%100
106	MP4C	Z	-1.834	-1.834	0	%100
107	MP1B	X	3.176	3.176	0	%100
108	MP1B	Z	-1.834	-1.834	0	%100
109	MP2B	X	3.176	3.176	0	%100
110	MP2B	Z	-1.834	-1.834	0	%100
111	MP3B	X	3.176	3.176	0	%100
112	MP3B	Z	-1.834	-1.834	0	%100
113	MP4B	X	3.176	3.176	0	%100
114	MP4B	Z	-1.834	-1.834	0	%100
115	M125	X	2.599	2.599	0	%100
116	M125	Z	-1.501	-1.501	0	%100
117	M126	X	1.334	1.334	0	%100
118	M126	Z	-.77	-.77	0	%100
119	M127	X	3.112	3.112	0	%100
120	M127	Z	-1.797	-1.797	0	%100
121	M128	X	3.112	3.112	0	%100
122	M128	Z	-1.797	-1.797	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	M4	X	4.581	4.581	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	0	0	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	0	0	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	0	0	0	%100
9	M51B	X	3.207	3.207	0	%100
10	M51B	Z	0	0	0	%100
11	M52B	X	3.207	3.207	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	5.71	5.71	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	4.347	4.347	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	4.536	4.536	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	5.71	5.71	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	4.347	4.347	0	%100
22	M85	Z	0	0	0	%100
23	M91	X	4.536	4.536	0	%100
24	M91	Z	0	0	0	%100
25	M150A	X	1.145	1.145	0	%100
26	M150A	Z	0	0	0	%100
27	M151A	X	2.789	2.789	0	%100
28	M151A	Z	0	0	0	%100
29	M152A	X	2.789	2.789	0	%100
30	M152A	Z	0	0	0	%100
31	M153A	X	4.352	4.352	0	%100
32	M153A	Z	0	0	0	%100
33	M156A	X	3.207	3.207	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,%]
34	M156A	Z	0	0	0	%100
35	M157A	X	0	0	0	%100
36	M157A	Z	0	0	0	%100
37	M161A	X	1.427	1.427	0	%100
38	M161A	Z	0	0	0	%100
39	M162A	X	4.347	4.347	0	%100
40	M162A	Z	0	0	0	%100
41	M164A	X	4.536	4.536	0	%100
42	M164A	Z	0	0	0	%100
43	M166A	X	1.427	1.427	0	%100
44	M166A	Z	0	0	0	%100
45	M167A	X	0	0	0	%100
46	M167A	Z	0	0	0	%100
47	M169A	X	0	0	0	%100
48	M169A	Z	0	0	0	%100
49	M174A	X	1.145	1.145	0	%100
50	M174A	Z	0	0	0	%100
51	M175A	X	2.789	2.789	0	%100
52	M175A	Z	0	0	0	%100
53	M176A	X	2.789	2.789	0	%100
54	M176A	Z	0	0	0	%100
55	M177A	X	4.352	4.352	0	%100
56	M177A	Z	0	0	0	%100
57	M180A	X	0	0	0	%100
58	M180A	Z	0	0	0	%100
59	M181A	X	3.207	3.207	0	%100
60	M181A	Z	0	0	0	%100
61	M185A	X	1.427	1.427	0	%100
62	M185A	Z	0	0	0	%100
63	M186A	X	0	0	0	%100
64	M186A	Z	0	0	0	%100
65	M188A	X	0	0	0	%100
66	M188A	Z	0	0	0	%100
67	M190A	X	1.427	1.427	0	%100
68	M190A	Z	0	0	0	%100
69	M191A	X	4.347	4.347	0	%100
70	M191A	Z	0	0	0	%100
71	M193A	X	4.536	4.536	0	%100
72	M193A	Z	0	0	0	%100
73	M198A	X	0	0	0	%100
74	M198A	Z	0	0	0	%100
75	M199A	X	3.404	3.404	0	%100
76	M199A	Z	0	0	0	%100
77	M200A	X	3.404	3.404	0	%100
78	M200A	Z	0	0	0	%100
79	M201A	X	0	0	0	%100
80	M201A	Z	0	0	0	%100
81	M202A	X	2.751	2.751	0	%100
82	M202A	Z	0	0	0	%100
83	M203A	X	2.751	2.751	0	%100
84	M203A	Z	0	0	0	%100
85	M210A	X	2.562	2.562	0	%100
86	M210A	Z	0	0	0	%100
87	M211A	X	2.562	2.562	0	%100
88	M211A	Z	0	0	0	%100
89	M212A	X	0	0	0	%100
90	M212A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
91	MP1A	X	3.668	3.668	0	%100
92	MP1A	Z	0	0	0	%100
93	MP2A	X	3.668	3.668	0	%100
94	MP2A	Z	0	0	0	%100
95	MP3A	X	3.668	3.668	0	%100
96	MP3A	Z	0	0	0	%100
97	MP4A	X	3.668	3.668	0	%100
98	MP4A	Z	0	0	0	%100
99	MP1C	X	3.668	3.668	0	%100
100	MP1C	Z	0	0	0	%100
101	MP2C	X	3.668	3.668	0	%100
102	MP2C	Z	0	0	0	%100
103	MP3C	X	3.668	3.668	0	%100
104	MP3C	Z	0	0	0	%100
105	MP4C	X	3.668	3.668	0	%100
106	MP4C	Z	0	0	0	%100
107	MP1B	X	3.668	3.668	0	%100
108	MP1B	Z	0	0	0	%100
109	MP2B	X	3.668	3.668	0	%100
110	MP2B	Z	0	0	0	%100
111	MP3B	X	3.668	3.668	0	%100
112	MP3B	Z	0	0	0	%100
113	MP4B	X	3.668	3.668	0	%100
114	MP4B	Z	0	0	0	%100
115	M125	X	3.001	3.001	0	%100
116	M125	Z	0	0	0	%100
117	M126	X	2.225	2.225	0	%100
118	M126	Z	0	0	0	%100
119	M127	X	4.278	4.278	0	%100
120	M127	Z	0	0	0	%100
121	M128	X	2.225	2.225	0	%100
122	M128	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	M4	X	2.975	2.975	0	%100
2	M4	Z	1.718	1.718	0	%100
3	M10	X	.805	.805	0	%100
4	M10	Z	.465	.465	0	%100
5	M43	X	.805	.805	0	%100
6	M43	Z	.465	.465	0	%100
7	M46	X	1.256	1.256	0	%100
8	M46	Z	.725	.725	0	%100
9	M51B	X	.926	.926	0	%100
10	M51B	Z	.535	.535	0	%100
11	M52B	X	3.703	3.703	0	%100
12	M52B	Z	2.138	2.138	0	%100
13	M76	X	3.709	3.709	0	%100
14	M76	Z	2.141	2.141	0	%100
15	M77	X	1.255	1.255	0	%100
16	M77	Z	.724	.724	0	%100
17	M80	X	1.309	1.309	0	%100
18	M80	Z	.756	.756	0	%100
19	M84	X	3.709	3.709	0	%100
20	M84	Z	2.141	2.141	0	%100
21	M85	X	5.019	5.019	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,%]
22	M85	Z	2.898	2.898	0	%100
23	M91	X	5.238	5.238	0	%100
24	M91	Z	3.024	3.024	0	%100
25	M150A	X	2.975	2.975	0	%100
26	M150A	Z	1.718	1.718	0	%100
27	M151A	X	.805	.805	0	%100
28	M151A	Z	.465	.465	0	%100
29	M152A	X	.805	.805	0	%100
30	M152A	Z	.465	.465	0	%100
31	M153A	X	1.256	1.256	0	%100
32	M153A	Z	.725	.725	0	%100
33	M156A	X	3.703	3.703	0	%100
34	M156A	Z	2.138	2.138	0	%100
35	M157A	X	.926	.926	0	%100
36	M157A	Z	.535	.535	0	%100
37	M161A	X	3.709	3.709	0	%100
38	M161A	Z	2.141	2.141	0	%100
39	M162A	X	5.019	5.019	0	%100
40	M162A	Z	2.898	2.898	0	%100
41	M164A	X	5.238	5.238	0	%100
42	M164A	Z	3.024	3.024	0	%100
43	M166A	X	3.709	3.709	0	%100
44	M166A	Z	2.141	2.141	0	%100
45	M167A	X	1.255	1.255	0	%100
46	M167A	Z	.724	.724	0	%100
47	M169A	X	1.309	1.309	0	%100
48	M169A	Z	.756	.756	0	%100
49	M174A	X	0	0	0	%100
50	M174A	Z	0	0	0	%100
51	M175A	X	3.22	3.22	0	%100
52	M175A	Z	1.859	1.859	0	%100
53	M176A	X	3.22	3.22	0	%100
54	M176A	Z	1.859	1.859	0	%100
55	M177A	X	5.025	5.025	0	%100
56	M177A	Z	2.901	2.901	0	%100
57	M180A	X	.926	.926	0	%100
58	M180A	Z	.535	.535	0	%100
59	M181A	X	.926	.926	0	%100
60	M181A	Z	.535	.535	0	%100
61	M185A	X	0	0	0	%100
62	M185A	Z	0	0	0	%100
63	M186A	X	1.255	1.255	0	%100
64	M186A	Z	.724	.724	0	%100
65	M188A	X	1.309	1.309	0	%100
66	M188A	Z	.756	.756	0	%100
67	M190A	X	0	0	0	%100
68	M190A	Z	0	0	0	%100
69	M191A	X	1.255	1.255	0	%100
70	M191A	Z	.724	.724	0	%100
71	M193A	X	1.309	1.309	0	%100
72	M193A	Z	.756	.756	0	%100
73	M198A	X	.983	.983	0	%100
74	M198A	Z	.567	.567	0	%100
75	M199A	X	.983	.983	0	%100
76	M199A	Z	.567	.567	0	%100
77	M200A	X	3.93	3.93	0	%100
78	M200A	Z	2.269	2.269	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,%]
79	M201A	X	.794	.794	0	%100
80	M201A	Z	.458	.458	0	%100
81	M202A	X	.794	.794	0	%100
82	M202A	Z	.458	.458	0	%100
83	M203A	X	3.176	3.176	0	%100
84	M203A	Z	1.834	1.834	0	%100
85	M210A	X	.74	.74	0	%100
86	M210A	Z	.427	.427	0	%100
87	M211A	X	2.958	2.958	0	%100
88	M211A	Z	1.708	1.708	0	%100
89	M212A	X	.74	.74	0	%100
90	M212A	Z	.427	.427	0	%100
91	MP1A	X	3.176	3.176	0	%100
92	MP1A	Z	1.834	1.834	0	%100
93	MP2A	X	3.176	3.176	0	%100
94	MP2A	Z	1.834	1.834	0	%100
95	MP3A	X	3.176	3.176	0	%100
96	MP3A	Z	1.834	1.834	0	%100
97	MP4A	X	3.176	3.176	0	%100
98	MP4A	Z	1.834	1.834	0	%100
99	MP1C	X	3.176	3.176	0	%100
100	MP1C	Z	1.834	1.834	0	%100
101	MP2C	X	3.176	3.176	0	%100
102	MP2C	Z	1.834	1.834	0	%100
103	MP3C	X	3.176	3.176	0	%100
104	MP3C	Z	1.834	1.834	0	%100
105	MP4C	X	3.176	3.176	0	%100
106	MP4C	Z	1.834	1.834	0	%100
107	MP1B	X	3.176	3.176	0	%100
108	MP1B	Z	1.834	1.834	0	%100
109	MP2B	X	3.176	3.176	0	%100
110	MP2B	Z	1.834	1.834	0	%100
111	MP3B	X	3.176	3.176	0	%100
112	MP3B	Z	1.834	1.834	0	%100
113	MP4B	X	3.176	3.176	0	%100
114	MP4B	Z	1.834	1.834	0	%100
115	M125	X	2.599	2.599	0	%100
116	M125	Z	1.501	1.501	0	%100
117	M126	X	3.112	3.112	0	%100
118	M126	Z	1.797	1.797	0	%100
119	M127	X	3.112	3.112	0	%100
120	M127	Z	1.797	1.797	0	%100
121	M128	X	1.334	1.334	0	%100
122	M128	Z	.77	.77	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	M4	X	.573	.573	0	%100
2	M4	Z	.992	.992	0	%100
3	M10	X	1.394	1.394	0	%100
4	M10	Z	2.415	2.415	0	%100
5	M43	X	1.394	1.394	0	%100
6	M43	Z	2.415	2.415	0	%100
7	M46	X	2.176	2.176	0	%100
8	M46	Z	3.769	3.769	0	%100
9	M51B	X	0	0	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,%]
10	M51B	Z	0	0	0	%100
11	M52B	X	1.604	1.604	0	%100
12	M52B	Z	2.778	2.778	0	%100
13	M76	X	.714	.714	0	%100
14	M76	Z	1.236	1.236	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	.714	.714	0	%100
20	M84	Z	1.236	1.236	0	%100
21	M85	X	2.173	2.173	0	%100
22	M85	Z	3.765	3.765	0	%100
23	M91	X	2.268	2.268	0	%100
24	M91	Z	3.928	3.928	0	%100
25	M150A	X	2.29	2.29	0	%100
26	M150A	Z	3.967	3.967	0	%100
27	M151A	X	0	0	0	%100
28	M151A	Z	0	0	0	%100
29	M152A	X	0	0	0	%100
30	M152A	Z	0	0	0	%100
31	M153A	X	0	0	0	%100
32	M153A	Z	0	0	0	%100
33	M156A	X	1.604	1.604	0	%100
34	M156A	Z	2.778	2.778	0	%100
35	M157A	X	1.604	1.604	0	%100
36	M157A	Z	2.778	2.778	0	%100
37	M161A	X	2.855	2.855	0	%100
38	M161A	Z	4.945	4.945	0	%100
39	M162A	X	2.173	2.173	0	%100
40	M162A	Z	3.765	3.765	0	%100
41	M164A	X	2.268	2.268	0	%100
42	M164A	Z	3.928	3.928	0	%100
43	M166A	X	2.855	2.855	0	%100
44	M166A	Z	4.945	4.945	0	%100
45	M167A	X	2.173	2.173	0	%100
46	M167A	Z	3.765	3.765	0	%100
47	M169A	X	2.268	2.268	0	%100
48	M169A	Z	3.928	3.928	0	%100
49	M174A	X	.573	.573	0	%100
50	M174A	Z	.992	.992	0	%100
51	M175A	X	1.394	1.394	0	%100
52	M175A	Z	2.415	2.415	0	%100
53	M176A	X	1.394	1.394	0	%100
54	M176A	Z	2.415	2.415	0	%100
55	M177A	X	2.176	2.176	0	%100
56	M177A	Z	3.769	3.769	0	%100
57	M180A	X	1.604	1.604	0	%100
58	M180A	Z	2.778	2.778	0	%100
59	M181A	X	0	0	0	%100
60	M181A	Z	0	0	0	%100
61	M185A	X	.714	.714	0	%100
62	M185A	Z	1.236	1.236	0	%100
63	M186A	X	2.173	2.173	0	%100
64	M186A	Z	3.765	3.765	0	%100
65	M188A	X	2.268	2.268	0	%100
66	M188A	Z	3.928	3.928	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,%]
67	M190A	X	.714	.714	0	%100
68	M190A	Z	1.236	1.236	0	%100
69	M191A	X	0	0	0	%100
70	M191A	Z	0	0	0	%100
71	M193A	X	0	0	0	%100
72	M193A	Z	0	0	0	%100
73	M198A	X	1.702	1.702	0	%100
74	M198A	Z	2.948	2.948	0	%100
75	M199A	X	0	0	0	%100
76	M199A	Z	0	0	0	%100
77	M200A	X	1.702	1.702	0	%100
78	M200A	Z	2.948	2.948	0	%100
79	M201A	X	1.375	1.375	0	%100
80	M201A	Z	2.382	2.382	0	%100
81	M202A	X	0	0	0	%100
82	M202A	Z	0	0	0	%100
83	M203A	X	1.375	1.375	0	%100
84	M203A	Z	2.382	2.382	0	%100
85	M210A	X	0	0	0	%100
86	M210A	Z	0	0	0	%100
87	M211A	X	1.281	1.281	0	%100
88	M211A	Z	2.219	2.219	0	%100
89	M212A	X	1.281	1.281	0	%100
90	M212A	Z	2.219	2.219	0	%100
91	MP1A	X	1.834	1.834	0	%100
92	MP1A	Z	3.176	3.176	0	%100
93	MP2A	X	1.834	1.834	0	%100
94	MP2A	Z	3.176	3.176	0	%100
95	MP3A	X	1.834	1.834	0	%100
96	MP3A	Z	3.176	3.176	0	%100
97	MP4A	X	1.834	1.834	0	%100
98	MP4A	Z	3.176	3.176	0	%100
99	MP1C	X	1.834	1.834	0	%100
100	MP1C	Z	3.176	3.176	0	%100
101	MP2C	X	1.834	1.834	0	%100
102	MP2C	Z	3.176	3.176	0	%100
103	MP3C	X	1.834	1.834	0	%100
104	MP3C	Z	3.176	3.176	0	%100
105	MP4C	X	1.834	1.834	0	%100
106	MP4C	Z	3.176	3.176	0	%100
107	MP1B	X	1.834	1.834	0	%100
108	MP1B	Z	3.176	3.176	0	%100
109	MP2B	X	1.834	1.834	0	%100
110	MP2B	Z	3.176	3.176	0	%100
111	MP3B	X	1.834	1.834	0	%100
112	MP3B	Z	3.176	3.176	0	%100
113	MP4B	X	1.834	1.834	0	%100
114	MP4B	Z	3.176	3.176	0	%100
115	M125	X	1.501	1.501	0	%100
116	M125	Z	2.599	2.599	0	%100
117	M126	X	2.139	2.139	0	%100
118	M126	Z	3.705	3.705	0	%100
119	M127	X	1.112	1.112	0	%100
120	M127	Z	1.927	1.927	0	%100
121	M128	X	1.112	1.112	0	%100
122	M128	Z	1.927	1.927	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	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	3.719	3.719	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	3.719	3.719	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	5.803	5.803	0	%100
9	M51B	X	0	0	0	%100
10	M51B	Z	1.069	1.069	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	1.069	1.069	0	%100
13	M76	X	0	0	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	1.449	1.449	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	1.512	1.512	0	%100
19	M84	X	0	0	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	0	0	0	%100
22	M85	Z	1.449	1.449	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	1.512	1.512	0	%100
25	M150A	X	0	0	0	%100
26	M150A	Z	3.435	3.435	0	%100
27	M151A	X	0	0	0	%100
28	M151A	Z	.93	.93	0	%100
29	M152A	X	0	0	0	%100
30	M152A	Z	.93	.93	0	%100
31	M153A	X	0	0	0	%100
32	M153A	Z	1.451	1.451	0	%100
33	M156A	X	0	0	0	%100
34	M156A	Z	1.069	1.069	0	%100
35	M157A	X	0	0	0	%100
36	M157A	Z	4.276	4.276	0	%100
37	M161A	X	0	0	0	%100
38	M161A	Z	4.282	4.282	0	%100
39	M162A	X	0	0	0	%100
40	M162A	Z	1.449	1.449	0	%100
41	M164A	X	0	0	0	%100
42	M164A	Z	1.512	1.512	0	%100
43	M166A	X	0	0	0	%100
44	M166A	Z	4.282	4.282	0	%100
45	M167A	X	0	0	0	%100
46	M167A	Z	5.796	5.796	0	%100
47	M169A	X	0	0	0	%100
48	M169A	Z	6.048	6.048	0	%100
49	M174A	X	0	0	0	%100
50	M174A	Z	3.435	3.435	0	%100
51	M175A	X	0	0	0	%100
52	M175A	Z	.93	.93	0	%100
53	M176A	X	0	0	0	%100
54	M176A	Z	.93	.93	0	%100
55	M177A	X	0	0	0	%100
56	M177A	Z	1.451	1.451	0	%100
57	M180A	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	M180A	Z	4.276	4.276	0	%100
59	M181A	X	0	0	0	%100
60	M181A	Z	1.069	1.069	0	%100
61	M185A	X	0	0	0	%100
62	M185A	Z	4.282	4.282	0	%100
63	M186A	X	0	0	0	%100
64	M186A	Z	5.796	5.796	0	%100
65	M188A	X	0	0	0	%100
66	M188A	Z	6.048	6.048	0	%100
67	M190A	X	0	0	0	%100
68	M190A	Z	4.282	4.282	0	%100
69	M191A	X	0	0	0	%100
70	M191A	Z	1.449	1.449	0	%100
71	M193A	X	0	0	0	%100
72	M193A	Z	1.512	1.512	0	%100
73	M198A	X	0	0	0	%100
74	M198A	Z	4.538	4.538	0	%100
75	M199A	X	0	0	0	%100
76	M199A	Z	1.135	1.135	0	%100
77	M200A	X	0	0	0	%100
78	M200A	Z	1.135	1.135	0	%100
79	M201A	X	0	0	0	%100
80	M201A	Z	3.668	3.668	0	%100
81	M202A	X	0	0	0	%100
82	M202A	Z	.917	.917	0	%100
83	M203A	X	0	0	0	%100
84	M203A	Z	.917	.917	0	%100
85	M210A	X	0	0	0	%100
86	M210A	Z	.854	.854	0	%100
87	M211A	X	0	0	0	%100
88	M211A	Z	.854	.854	0	%100
89	M212A	X	0	0	0	%100
90	M212A	Z	3.416	3.416	0	%100
91	MP1A	X	0	0	0	%100
92	MP1A	Z	3.668	3.668	0	%100
93	MP2A	X	0	0	0	%100
94	MP2A	Z	3.668	3.668	0	%100
95	MP3A	X	0	0	0	%100
96	MP3A	Z	3.668	3.668	0	%100
97	MP4A	X	0	0	0	%100
98	MP4A	Z	3.668	3.668	0	%100
99	MP1C	X	0	0	0	%100
100	MP1C	Z	3.668	3.668	0	%100
101	MP2C	X	0	0	0	%100
102	MP2C	Z	3.668	3.668	0	%100
103	MP3C	X	0	0	0	%100
104	MP3C	Z	3.668	3.668	0	%100
105	MP4C	X	0	0	0	%100
106	MP4C	Z	3.668	3.668	0	%100
107	MP1B	X	0	0	0	%100
108	MP1B	Z	3.668	3.668	0	%100
109	MP2B	X	0	0	0	%100
110	MP2B	Z	3.668	3.668	0	%100
111	MP3B	X	0	0	0	%100
112	MP3B	Z	3.668	3.668	0	%100
113	MP4B	X	0	0	0	%100
114	MP4B	Z	3.668	3.668	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,%]
115	M125	X	0	0	0	%100
116	M125	Z	3.001	3.001	0	%100
117	M126	X	0	0	0	%100
118	M126	Z	3.594	3.594	0	%100
119	M127	X	0	0	0	%100
120	M127	Z	1.54	1.54	0	%100
121	M128	X	0	0	0	%100
122	M128	Z	3.594	3.594	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	M4	X	-.573	-.573	0	%100
2	M4	Z	.992	.992	0	%100
3	M10	X	-1.394	-1.394	0	%100
4	M10	Z	2.415	2.415	0	%100
5	M43	X	-1.394	-1.394	0	%100
6	M43	Z	2.415	2.415	0	%100
7	M46	X	-2.176	-2.176	0	%100
8	M46	Z	3.769	3.769	0	%100
9	M51B	X	-1.604	-1.604	0	%100
10	M51B	Z	2.778	2.778	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	-.714	-.714	0	%100
14	M76	Z	1.236	1.236	0	%100
15	M77	X	-2.173	-2.173	0	%100
16	M77	Z	3.765	3.765	0	%100
17	M80	X	-2.268	-2.268	0	%100
18	M80	Z	3.928	3.928	0	%100
19	M84	X	-.714	-.714	0	%100
20	M84	Z	1.236	1.236	0	%100
21	M85	X	0	0	0	%100
22	M85	Z	0	0	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	0	0	0	%100
25	M150A	X	-.573	-.573	0	%100
26	M150A	Z	.992	.992	0	%100
27	M151A	X	-1.394	-1.394	0	%100
28	M151A	Z	2.415	2.415	0	%100
29	M152A	X	-1.394	-1.394	0	%100
30	M152A	Z	2.415	2.415	0	%100
31	M153A	X	-2.176	-2.176	0	%100
32	M153A	Z	3.769	3.769	0	%100
33	M156A	X	0	0	0	%100
34	M156A	Z	0	0	0	%100
35	M157A	X	-1.604	-1.604	0	%100
36	M157A	Z	2.778	2.778	0	%100
37	M161A	X	-.714	-.714	0	%100
38	M161A	Z	1.236	1.236	0	%100
39	M162A	X	0	0	0	%100
40	M162A	Z	0	0	0	%100
41	M164A	X	0	0	0	%100
42	M164A	Z	0	0	0	%100
43	M166A	X	-.714	-.714	0	%100
44	M166A	Z	1.236	1.236	0	%100
45	M167A	X	-2.173	-2.173	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,%]
46	M167A	Z	3.765	3.765	0	%100
47	M169A	X	-2.268	-2.268	0	%100
48	M169A	Z	3.928	3.928	0	%100
49	M174A	X	-2.29	-2.29	0	%100
50	M174A	Z	3.967	3.967	0	%100
51	M175A	X	0	0	0	%100
52	M175A	Z	0	0	0	%100
53	M176A	X	0	0	0	%100
54	M176A	Z	0	0	0	%100
55	M177A	X	0	0	0	%100
56	M177A	Z	0	0	0	%100
57	M180A	X	-1.604	-1.604	0	%100
58	M180A	Z	2.778	2.778	0	%100
59	M181A	X	-1.604	-1.604	0	%100
60	M181A	Z	2.778	2.778	0	%100
61	M185A	X	-2.855	-2.855	0	%100
62	M185A	Z	4.945	4.945	0	%100
63	M186A	X	-2.173	-2.173	0	%100
64	M186A	Z	3.765	3.765	0	%100
65	M188A	X	-2.268	-2.268	0	%100
66	M188A	Z	3.928	3.928	0	%100
67	M190A	X	-2.855	-2.855	0	%100
68	M190A	Z	4.945	4.945	0	%100
69	M191A	X	-2.173	-2.173	0	%100
70	M191A	Z	3.765	3.765	0	%100
71	M193A	X	-2.268	-2.268	0	%100
72	M193A	Z	3.928	3.928	0	%100
73	M198A	X	-1.702	-1.702	0	%100
74	M198A	Z	2.948	2.948	0	%100
75	M199A	X	-1.702	-1.702	0	%100
76	M199A	Z	2.948	2.948	0	%100
77	M200A	X	0	0	0	%100
78	M200A	Z	0	0	0	%100
79	M201A	X	-1.375	-1.375	0	%100
80	M201A	Z	2.382	2.382	0	%100
81	M202A	X	-1.375	-1.375	0	%100
82	M202A	Z	2.382	2.382	0	%100
83	M203A	X	0	0	0	%100
84	M203A	Z	0	0	0	%100
85	M210A	X	-1.281	-1.281	0	%100
86	M210A	Z	2.219	2.219	0	%100
87	M211A	X	0	0	0	%100
88	M211A	Z	0	0	0	%100
89	M212A	X	-1.281	-1.281	0	%100
90	M212A	Z	2.219	2.219	0	%100
91	MP1A	X	-1.834	-1.834	0	%100
92	MP1A	Z	3.176	3.176	0	%100
93	MP2A	X	-1.834	-1.834	0	%100
94	MP2A	Z	3.176	3.176	0	%100
95	MP3A	X	-1.834	-1.834	0	%100
96	MP3A	Z	3.176	3.176	0	%100
97	MP4A	X	-1.834	-1.834	0	%100
98	MP4A	Z	3.176	3.176	0	%100
99	MP1C	X	-1.834	-1.834	0	%100
100	MP1C	Z	3.176	3.176	0	%100
101	MP2C	X	-1.834	-1.834	0	%100
102	MP2C	Z	3.176	3.176	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,%]
103	MP3C	X	-1.834	-1.834	0	%100
104	MP3C	Z	3.176	3.176	0	%100
105	MP4C	X	-1.834	-1.834	0	%100
106	MP4C	Z	3.176	3.176	0	%100
107	MP1B	X	-1.834	-1.834	0	%100
108	MP1B	Z	3.176	3.176	0	%100
109	MP2B	X	-1.834	-1.834	0	%100
110	MP2B	Z	3.176	3.176	0	%100
111	MP3B	X	-1.834	-1.834	0	%100
112	MP3B	Z	3.176	3.176	0	%100
113	MP4B	X	-1.834	-1.834	0	%100
114	MP4B	Z	3.176	3.176	0	%100
115	M125	X	-1.501	-1.501	0	%100
116	M125	Z	2.599	2.599	0	%100
117	M126	X	-1.112	-1.112	0	%100
118	M126	Z	1.927	1.927	0	%100
119	M127	X	-1.112	-1.112	0	%100
120	M127	Z	1.927	1.927	0	%100
121	M128	X	-2.139	-2.139	0	%100
122	M128	Z	3.705	3.705	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	M4	X	-2.975	-2.975	0	%100
2	M4	Z	1.718	1.718	0	%100
3	M10	X	-.805	-.805	0	%100
4	M10	Z	.465	.465	0	%100
5	M43	X	-.805	-.805	0	%100
6	M43	Z	.465	.465	0	%100
7	M46	X	-1.256	-1.256	0	%100
8	M46	Z	.725	.725	0	%100
9	M51B	X	-3.703	-3.703	0	%100
10	M51B	Z	2.138	2.138	0	%100
11	M52B	X	-.926	-.926	0	%100
12	M52B	Z	.535	.535	0	%100
13	M76	X	-3.709	-3.709	0	%100
14	M76	Z	2.141	2.141	0	%100
15	M77	X	-5.019	-5.019	0	%100
16	M77	Z	2.898	2.898	0	%100
17	M80	X	-5.238	-5.238	0	%100
18	M80	Z	3.024	3.024	0	%100
19	M84	X	-3.709	-3.709	0	%100
20	M84	Z	2.141	2.141	0	%100
21	M85	X	-1.255	-1.255	0	%100
22	M85	Z	.724	.724	0	%100
23	M91	X	-1.309	-1.309	0	%100
24	M91	Z	.756	.756	0	%100
25	M150A	X	0	0	0	%100
26	M150A	Z	0	0	0	%100
27	M151A	X	-3.22	-3.22	0	%100
28	M151A	Z	1.859	1.859	0	%100
29	M152A	X	-3.22	-3.22	0	%100
30	M152A	Z	1.859	1.859	0	%100
31	M153A	X	-5.025	-5.025	0	%100
32	M153A	Z	2.901	2.901	0	%100
33	M156A	X	-.926	-.926	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,%]
34	M156A	Z	.535	.535	0	%100
35	M157A	X	-.926	-.926	0	%100
36	M157A	Z	.535	.535	0	%100
37	M161A	X	0	0	0	%100
38	M161A	Z	0	0	0	%100
39	M162A	X	-1.255	-1.255	0	%100
40	M162A	Z	.724	.724	0	%100
41	M164A	X	-1.309	-1.309	0	%100
42	M164A	Z	.756	.756	0	%100
43	M166A	X	0	0	0	%100
44	M166A	Z	0	0	0	%100
45	M167A	X	-1.255	-1.255	0	%100
46	M167A	Z	.724	.724	0	%100
47	M169A	X	-1.309	-1.309	0	%100
48	M169A	Z	.756	.756	0	%100
49	M174A	X	-2.975	-2.975	0	%100
50	M174A	Z	1.718	1.718	0	%100
51	M175A	X	-.805	-.805	0	%100
52	M175A	Z	.465	.465	0	%100
53	M176A	X	-.805	-.805	0	%100
54	M176A	Z	.465	.465	0	%100
55	M177A	X	-1.256	-1.256	0	%100
56	M177A	Z	.725	.725	0	%100
57	M180A	X	-.926	-.926	0	%100
58	M180A	Z	.535	.535	0	%100
59	M181A	X	-3.703	-3.703	0	%100
60	M181A	Z	2.138	2.138	0	%100
61	M185A	X	-3.709	-3.709	0	%100
62	M185A	Z	2.141	2.141	0	%100
63	M186A	X	-1.255	-1.255	0	%100
64	M186A	Z	.724	.724	0	%100
65	M188A	X	-1.309	-1.309	0	%100
66	M188A	Z	.756	.756	0	%100
67	M190A	X	-3.709	-3.709	0	%100
68	M190A	Z	2.141	2.141	0	%100
69	M191A	X	-5.019	-5.019	0	%100
70	M191A	Z	2.898	2.898	0	%100
71	M193A	X	-5.238	-5.238	0	%100
72	M193A	Z	3.024	3.024	0	%100
73	M198A	X	-.983	-.983	0	%100
74	M198A	Z	.567	.567	0	%100
75	M199A	X	-3.93	-3.93	0	%100
76	M199A	Z	2.269	2.269	0	%100
77	M200A	X	-.983	-.983	0	%100
78	M200A	Z	.567	.567	0	%100
79	M201A	X	-.794	-.794	0	%100
80	M201A	Z	.458	.458	0	%100
81	M202A	X	-3.176	-3.176	0	%100
82	M202A	Z	1.834	1.834	0	%100
83	M203A	X	-.794	-.794	0	%100
84	M203A	Z	.458	.458	0	%100
85	M210A	X	-2.958	-2.958	0	%100
86	M210A	Z	1.708	1.708	0	%100
87	M211A	X	-.74	-.74	0	%100
88	M211A	Z	.427	.427	0	%100
89	M212A	X	-.74	-.74	0	%100
90	M212A	Z	.427	.427	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,%]
91	MP1A	X	-3.176	-3.176	0	%100
92	MP1A	Z	1.834	1.834	0	%100
93	MP2A	X	-3.176	-3.176	0	%100
94	MP2A	Z	1.834	1.834	0	%100
95	MP3A	X	-3.176	-3.176	0	%100
96	MP3A	Z	1.834	1.834	0	%100
97	MP4A	X	-3.176	-3.176	0	%100
98	MP4A	Z	1.834	1.834	0	%100
99	MP1C	X	-3.176	-3.176	0	%100
100	MP1C	Z	1.834	1.834	0	%100
101	MP2C	X	-3.176	-3.176	0	%100
102	MP2C	Z	1.834	1.834	0	%100
103	MP3C	X	-3.176	-3.176	0	%100
104	MP3C	Z	1.834	1.834	0	%100
105	MP4C	X	-3.176	-3.176	0	%100
106	MP4C	Z	1.834	1.834	0	%100
107	MP1B	X	-3.176	-3.176	0	%100
108	MP1B	Z	1.834	1.834	0	%100
109	MP2B	X	-3.176	-3.176	0	%100
110	MP2B	Z	1.834	1.834	0	%100
111	MP3B	X	-3.176	-3.176	0	%100
112	MP3B	Z	1.834	1.834	0	%100
113	MP4B	X	-3.176	-3.176	0	%100
114	MP4B	Z	1.834	1.834	0	%100
115	M125	X	-2.599	-2.599	0	%100
116	M125	Z	1.501	1.501	0	%100
117	M126	X	-1.334	-1.334	0	%100
118	M126	Z	.77	.77	0	%100
119	M127	X	-3.112	-3.112	0	%100
120	M127	Z	1.797	1.797	0	%100
121	M128	X	-3.112	-3.112	0	%100
122	M128	Z	1.797	1.797	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	M4	X	-4.581	-4.581	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	0	0	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	0	0	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	0	0	0	%100
9	M51B	X	-3.207	-3.207	0	%100
10	M51B	Z	0	0	0	%100
11	M52B	X	-3.207	-3.207	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	-5.71	-5.71	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	-4.347	-4.347	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	-4.536	-4.536	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	-5.71	-5.71	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	-4.347	-4.347	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,%]
22	M85	Z	0	0	0	%100
23	M91	X	-4.536	-4.536	0	%100
24	M91	Z	0	0	0	%100
25	M150A	X	-1.145	-1.145	0	%100
26	M150A	Z	0	0	0	%100
27	M151A	X	-2.789	-2.789	0	%100
28	M151A	Z	0	0	0	%100
29	M152A	X	-2.789	-2.789	0	%100
30	M152A	Z	0	0	0	%100
31	M153A	X	-4.352	-4.352	0	%100
32	M153A	Z	0	0	0	%100
33	M156A	X	-3.207	-3.207	0	%100
34	M156A	Z	0	0	0	%100
35	M157A	X	0	0	0	%100
36	M157A	Z	0	0	0	%100
37	M161A	X	-1.427	-1.427	0	%100
38	M161A	Z	0	0	0	%100
39	M162A	X	-4.347	-4.347	0	%100
40	M162A	Z	0	0	0	%100
41	M164A	X	-4.536	-4.536	0	%100
42	M164A	Z	0	0	0	%100
43	M166A	X	-1.427	-1.427	0	%100
44	M166A	Z	0	0	0	%100
45	M167A	X	0	0	0	%100
46	M167A	Z	0	0	0	%100
47	M169A	X	0	0	0	%100
48	M169A	Z	0	0	0	%100
49	M174A	X	-1.145	-1.145	0	%100
50	M174A	Z	0	0	0	%100
51	M175A	X	-2.789	-2.789	0	%100
52	M175A	Z	0	0	0	%100
53	M176A	X	-2.789	-2.789	0	%100
54	M176A	Z	0	0	0	%100
55	M177A	X	-4.352	-4.352	0	%100
56	M177A	Z	0	0	0	%100
57	M180A	X	0	0	0	%100
58	M180A	Z	0	0	0	%100
59	M181A	X	-3.207	-3.207	0	%100
60	M181A	Z	0	0	0	%100
61	M185A	X	-1.427	-1.427	0	%100
62	M185A	Z	0	0	0	%100
63	M186A	X	0	0	0	%100
64	M186A	Z	0	0	0	%100
65	M188A	X	0	0	0	%100
66	M188A	Z	0	0	0	%100
67	M190A	X	-1.427	-1.427	0	%100
68	M190A	Z	0	0	0	%100
69	M191A	X	-4.347	-4.347	0	%100
70	M191A	Z	0	0	0	%100
71	M193A	X	-4.536	-4.536	0	%100
72	M193A	Z	0	0	0	%100
73	M198A	X	0	0	0	%100
74	M198A	Z	0	0	0	%100
75	M199A	X	-3.404	-3.404	0	%100
76	M199A	Z	0	0	0	%100
77	M200A	X	-3.404	-3.404	0	%100
78	M200A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
79	M201A	X	0	0	0	%100
80	M201A	Z	0	0	0	%100
81	M202A	X	-2.751	-2.751	0	%100
82	M202A	Z	0	0	0	%100
83	M203A	X	-2.751	-2.751	0	%100
84	M203A	Z	0	0	0	%100
85	M210A	X	-2.562	-2.562	0	%100
86	M210A	Z	0	0	0	%100
87	M211A	X	-2.562	-2.562	0	%100
88	M211A	Z	0	0	0	%100
89	M212A	X	0	0	0	%100
90	M212A	Z	0	0	0	%100
91	MP1A	X	-3.668	-3.668	0	%100
92	MP1A	Z	0	0	0	%100
93	MP2A	X	-3.668	-3.668	0	%100
94	MP2A	Z	0	0	0	%100
95	MP3A	X	-3.668	-3.668	0	%100
96	MP3A	Z	0	0	0	%100
97	MP4A	X	-3.668	-3.668	0	%100
98	MP4A	Z	0	0	0	%100
99	MP1C	X	-3.668	-3.668	0	%100
100	MP1C	Z	0	0	0	%100
101	MP2C	X	-3.668	-3.668	0	%100
102	MP2C	Z	0	0	0	%100
103	MP3C	X	-3.668	-3.668	0	%100
104	MP3C	Z	0	0	0	%100
105	MP4C	X	-3.668	-3.668	0	%100
106	MP4C	Z	0	0	0	%100
107	MP1B	X	-3.668	-3.668	0	%100
108	MP1B	Z	0	0	0	%100
109	MP2B	X	-3.668	-3.668	0	%100
110	MP2B	Z	0	0	0	%100
111	MP3B	X	-3.668	-3.668	0	%100
112	MP3B	Z	0	0	0	%100
113	MP4B	X	-3.668	-3.668	0	%100
114	MP4B	Z	0	0	0	%100
115	M125	X	-3.001	-3.001	0	%100
116	M125	Z	0	0	0	%100
117	M126	X	-2.225	-2.225	0	%100
118	M126	Z	0	0	0	%100
119	M127	X	-4.278	-4.278	0	%100
120	M127	Z	0	0	0	%100
121	M128	X	-2.225	-2.225	0	%100
122	M128	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	M4	X	-2.975	-2.975	0	%100
2	M4	Z	-1.718	-1.718	0	%100
3	M10	X	-.805	-.805	0	%100
4	M10	Z	-.465	-.465	0	%100
5	M43	X	-.805	-.805	0	%100
6	M43	Z	-.465	-.465	0	%100
7	M46	X	-1.256	-1.256	0	%100
8	M46	Z	-.725	-.725	0	%100
9	M51B	X	-.926	-.926	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,%]
10	M51B	Z	-.535	-.535	0	%100
11	M52B	X	-3.703	-3.703	0	%100
12	M52B	Z	-2.138	-2.138	0	%100
13	M76	X	-3.709	-3.709	0	%100
14	M76	Z	-2.141	-2.141	0	%100
15	M77	X	-1.255	-1.255	0	%100
16	M77	Z	-.724	-.724	0	%100
17	M80	X	-1.309	-1.309	0	%100
18	M80	Z	-.756	-.756	0	%100
19	M84	X	-3.709	-3.709	0	%100
20	M84	Z	-2.141	-2.141	0	%100
21	M85	X	-5.019	-5.019	0	%100
22	M85	Z	-2.898	-2.898	0	%100
23	M91	X	-5.238	-5.238	0	%100
24	M91	Z	-3.024	-3.024	0	%100
25	M150A	X	-2.975	-2.975	0	%100
26	M150A	Z	-1.718	-1.718	0	%100
27	M151A	X	-.805	-.805	0	%100
28	M151A	Z	-.465	-.465	0	%100
29	M152A	X	-.805	-.805	0	%100
30	M152A	Z	-.465	-.465	0	%100
31	M153A	X	-1.256	-1.256	0	%100
32	M153A	Z	-.725	-.725	0	%100
33	M156A	X	-3.703	-3.703	0	%100
34	M156A	Z	-2.138	-2.138	0	%100
35	M157A	X	-.926	-.926	0	%100
36	M157A	Z	-.535	-.535	0	%100
37	M161A	X	-3.709	-3.709	0	%100
38	M161A	Z	-2.141	-2.141	0	%100
39	M162A	X	-5.019	-5.019	0	%100
40	M162A	Z	-2.898	-2.898	0	%100
41	M164A	X	-5.238	-5.238	0	%100
42	M164A	Z	-3.024	-3.024	0	%100
43	M166A	X	-3.709	-3.709	0	%100
44	M166A	Z	-2.141	-2.141	0	%100
45	M167A	X	-1.255	-1.255	0	%100
46	M167A	Z	-.724	-.724	0	%100
47	M169A	X	-1.309	-1.309	0	%100
48	M169A	Z	-.756	-.756	0	%100
49	M174A	X	0	0	0	%100
50	M174A	Z	0	0	0	%100
51	M175A	X	-3.22	-3.22	0	%100
52	M175A	Z	-1.859	-1.859	0	%100
53	M176A	X	-3.22	-3.22	0	%100
54	M176A	Z	-1.859	-1.859	0	%100
55	M177A	X	-5.025	-5.025	0	%100
56	M177A	Z	-2.901	-2.901	0	%100
57	M180A	X	-.926	-.926	0	%100
58	M180A	Z	-.535	-.535	0	%100
59	M181A	X	-.926	-.926	0	%100
60	M181A	Z	-.535	-.535	0	%100
61	M185A	X	0	0	0	%100
62	M185A	Z	0	0	0	%100
63	M186A	X	-1.255	-1.255	0	%100
64	M186A	Z	-.724	-.724	0	%100
65	M188A	X	-1.309	-1.309	0	%100
66	M188A	Z	-.756	-.756	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,%]
67	M190A	X	0	0	0	%100
68	M190A	Z	0	0	0	%100
69	M191A	X	-1.255	-1.255	0	%100
70	M191A	Z	-.724	-.724	0	%100
71	M193A	X	-1.309	-1.309	0	%100
72	M193A	Z	-.756	-.756	0	%100
73	M198A	X	-.983	-.983	0	%100
74	M198A	Z	-.567	-.567	0	%100
75	M199A	X	-.983	-.983	0	%100
76	M199A	Z	-.567	-.567	0	%100
77	M200A	X	-3.93	-3.93	0	%100
78	M200A	Z	-2.269	-2.269	0	%100
79	M201A	X	-.794	-.794	0	%100
80	M201A	Z	-.458	-.458	0	%100
81	M202A	X	-.794	-.794	0	%100
82	M202A	Z	-.458	-.458	0	%100
83	M203A	X	-3.176	-3.176	0	%100
84	M203A	Z	-1.834	-1.834	0	%100
85	M210A	X	-.74	-.74	0	%100
86	M210A	Z	-.427	-.427	0	%100
87	M211A	X	-2.958	-2.958	0	%100
88	M211A	Z	-1.708	-1.708	0	%100
89	M212A	X	-.74	-.74	0	%100
90	M212A	Z	-.427	-.427	0	%100
91	MP1A	X	-3.176	-3.176	0	%100
92	MP1A	Z	-1.834	-1.834	0	%100
93	MP2A	X	-3.176	-3.176	0	%100
94	MP2A	Z	-1.834	-1.834	0	%100
95	MP3A	X	-3.176	-3.176	0	%100
96	MP3A	Z	-1.834	-1.834	0	%100
97	MP4A	X	-3.176	-3.176	0	%100
98	MP4A	Z	-1.834	-1.834	0	%100
99	MP1C	X	-3.176	-3.176	0	%100
100	MP1C	Z	-1.834	-1.834	0	%100
101	MP2C	X	-3.176	-3.176	0	%100
102	MP2C	Z	-1.834	-1.834	0	%100
103	MP3C	X	-3.176	-3.176	0	%100
104	MP3C	Z	-1.834	-1.834	0	%100
105	MP4C	X	-3.176	-3.176	0	%100
106	MP4C	Z	-1.834	-1.834	0	%100
107	MP1B	X	-3.176	-3.176	0	%100
108	MP1B	Z	-1.834	-1.834	0	%100
109	MP2B	X	-3.176	-3.176	0	%100
110	MP2B	Z	-1.834	-1.834	0	%100
111	MP3B	X	-3.176	-3.176	0	%100
112	MP3B	Z	-1.834	-1.834	0	%100
113	MP4B	X	-3.176	-3.176	0	%100
114	MP4B	Z	-1.834	-1.834	0	%100
115	M125	X	-2.599	-2.599	0	%100
116	M125	Z	-1.501	-1.501	0	%100
117	M126	X	-3.112	-3.112	0	%100
118	M126	Z	-1.797	-1.797	0	%100
119	M127	X	-3.112	-3.112	0	%100
120	M127	Z	-1.797	-1.797	0	%100
121	M128	X	-1.334	-1.334	0	%100
122	M128	Z	-.77	-.77	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	M4	X	-.573	-.573	0	%100
2	M4	Z	-.992	-.992	0	%100
3	M10	X	-1.394	-1.394	0	%100
4	M10	Z	-2.415	-2.415	0	%100
5	M43	X	-1.394	-1.394	0	%100
6	M43	Z	-2.415	-2.415	0	%100
7	M46	X	-2.176	-2.176	0	%100
8	M46	Z	-3.769	-3.769	0	%100
9	M51B	X	0	0	0	%100
10	M51B	Z	0	0	0	%100
11	M52B	X	-1.604	-1.604	0	%100
12	M52B	Z	-2.778	-2.778	0	%100
13	M76	X	-.714	-.714	0	%100
14	M76	Z	-1.236	-1.236	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	-.714	-.714	0	%100
20	M84	Z	-1.236	-1.236	0	%100
21	M85	X	-2.173	-2.173	0	%100
22	M85	Z	-3.765	-3.765	0	%100
23	M91	X	-2.268	-2.268	0	%100
24	M91	Z	-3.928	-3.928	0	%100
25	M150A	X	-2.29	-2.29	0	%100
26	M150A	Z	-3.967	-3.967	0	%100
27	M151A	X	0	0	0	%100
28	M151A	Z	0	0	0	%100
29	M152A	X	0	0	0	%100
30	M152A	Z	0	0	0	%100
31	M153A	X	0	0	0	%100
32	M153A	Z	0	0	0	%100
33	M156A	X	-1.604	-1.604	0	%100
34	M156A	Z	-2.778	-2.778	0	%100
35	M157A	X	-1.604	-1.604	0	%100
36	M157A	Z	-2.778	-2.778	0	%100
37	M161A	X	-2.855	-2.855	0	%100
38	M161A	Z	-4.945	-4.945	0	%100
39	M162A	X	-2.173	-2.173	0	%100
40	M162A	Z	-3.765	-3.765	0	%100
41	M164A	X	-2.268	-2.268	0	%100
42	M164A	Z	-3.928	-3.928	0	%100
43	M166A	X	-2.855	-2.855	0	%100
44	M166A	Z	-4.945	-4.945	0	%100
45	M167A	X	-2.173	-2.173	0	%100
46	M167A	Z	-3.765	-3.765	0	%100
47	M169A	X	-2.268	-2.268	0	%100
48	M169A	Z	-3.928	-3.928	0	%100
49	M174A	X	-.573	-.573	0	%100
50	M174A	Z	-.992	-.992	0	%100
51	M175A	X	-1.394	-1.394	0	%100
52	M175A	Z	-2.415	-2.415	0	%100
53	M176A	X	-1.394	-1.394	0	%100
54	M176A	Z	-2.415	-2.415	0	%100
55	M177A	X	-2.176	-2.176	0	%100
56	M177A	Z	-3.769	-3.769	0	%100
57	M180A	X	-1.604	-1.604	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	M180A	Z	-2.778	-2.778	0	%100
59	M181A	X	0	0	0	%100
60	M181A	Z	0	0	0	%100
61	M185A	X	-.714	-.714	0	%100
62	M185A	Z	-1.236	-1.236	0	%100
63	M186A	X	-2.173	-2.173	0	%100
64	M186A	Z	-3.765	-3.765	0	%100
65	M188A	X	-2.268	-2.268	0	%100
66	M188A	Z	-3.928	-3.928	0	%100
67	M190A	X	-.714	-.714	0	%100
68	M190A	Z	-1.236	-1.236	0	%100
69	M191A	X	0	0	0	%100
70	M191A	Z	0	0	0	%100
71	M193A	X	0	0	0	%100
72	M193A	Z	0	0	0	%100
73	M198A	X	-1.702	-1.702	0	%100
74	M198A	Z	-2.948	-2.948	0	%100
75	M199A	X	0	0	0	%100
76	M199A	Z	0	0	0	%100
77	M200A	X	-1.702	-1.702	0	%100
78	M200A	Z	-2.948	-2.948	0	%100
79	M201A	X	-1.375	-1.375	0	%100
80	M201A	Z	-2.382	-2.382	0	%100
81	M202A	X	0	0	0	%100
82	M202A	Z	0	0	0	%100
83	M203A	X	-1.375	-1.375	0	%100
84	M203A	Z	-2.382	-2.382	0	%100
85	M210A	X	0	0	0	%100
86	M210A	Z	0	0	0	%100
87	M211A	X	-1.281	-1.281	0	%100
88	M211A	Z	-2.219	-2.219	0	%100
89	M212A	X	-1.281	-1.281	0	%100
90	M212A	Z	-2.219	-2.219	0	%100
91	MP1A	X	-1.834	-1.834	0	%100
92	MP1A	Z	-3.176	-3.176	0	%100
93	MP2A	X	-1.834	-1.834	0	%100
94	MP2A	Z	-3.176	-3.176	0	%100
95	MP3A	X	-1.834	-1.834	0	%100
96	MP3A	Z	-3.176	-3.176	0	%100
97	MP4A	X	-1.834	-1.834	0	%100
98	MP4A	Z	-3.176	-3.176	0	%100
99	MP1C	X	-1.834	-1.834	0	%100
100	MP1C	Z	-3.176	-3.176	0	%100
101	MP2C	X	-1.834	-1.834	0	%100
102	MP2C	Z	-3.176	-3.176	0	%100
103	MP3C	X	-1.834	-1.834	0	%100
104	MP3C	Z	-3.176	-3.176	0	%100
105	MP4C	X	-1.834	-1.834	0	%100
106	MP4C	Z	-3.176	-3.176	0	%100
107	MP1B	X	-1.834	-1.834	0	%100
108	MP1B	Z	-3.176	-3.176	0	%100
109	MP2B	X	-1.834	-1.834	0	%100
110	MP2B	Z	-3.176	-3.176	0	%100
111	MP3B	X	-1.834	-1.834	0	%100
112	MP3B	Z	-3.176	-3.176	0	%100
113	MP4B	X	-1.834	-1.834	0	%100
114	MP4B	Z	-3.176	-3.176	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,%]
115	M125	X	-1.501	-1.501	0	%100
116	M125	Z	-2.599	-2.599	0	%100
117	M126	X	-2.139	-2.139	0	%100
118	M126	Z	-3.705	-3.705	0	%100
119	M127	X	-1.112	-1.112	0	%100
120	M127	Z	-1.927	-1.927	0	%100
121	M128	X	-1.112	-1.112	0	%100
122	M128	Z	-1.927	-1.927	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	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	-.838	-.838	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	-.838	-.838	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	-1.671	-1.671	0	%100
9	M51B	X	0	0	0	%100
10	M51B	Z	-.232	-.232	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	-.232	-.232	0	%100
13	M76	X	0	0	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	-.426	-.426	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	-.448	-.448	0	%100
19	M84	X	0	0	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	0	0	0	%100
22	M85	Z	-.426	-.426	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	-.448	-.448	0	%100
25	M150A	X	0	0	0	%100
26	M150A	Z	-.743	-.743	0	%100
27	M151A	X	0	0	0	%100
28	M151A	Z	-.209	-.209	0	%100
29	M152A	X	0	0	0	%100
30	M152A	Z	-.209	-.209	0	%100
31	M153A	X	0	0	0	%100
32	M153A	Z	-.418	-.418	0	%100
33	M156A	X	0	0	0	%100
34	M156A	Z	-.232	-.232	0	%100
35	M157A	X	0	0	0	%100
36	M157A	Z	-.928	-.928	0	%100
37	M161A	X	0	0	0	%100
38	M161A	Z	-1.253	-1.253	0	%100
39	M162A	X	0	0	0	%100
40	M162A	Z	-.426	-.426	0	%100
41	M164A	X	0	0	0	%100
42	M164A	Z	-.448	-.448	0	%100
43	M166A	X	0	0	0	%100
44	M166A	Z	-1.253	-1.253	0	%100
45	M167A	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,%]
46	M167A	Z	-1.702	-1.702	0	%100
47	M169A	X	0	0	0	%100
48	M169A	Z	-1.793	-1.793	0	%100
49	M174A	X	0	0	0	%100
50	M174A	Z	-.743	-.743	0	%100
51	M175A	X	0	0	0	%100
52	M175A	Z	-.209	-.209	0	%100
53	M176A	X	0	0	0	%100
54	M176A	Z	-.209	-.209	0	%100
55	M177A	X	0	0	0	%100
56	M177A	Z	-.418	-.418	0	%100
57	M180A	X	0	0	0	%100
58	M180A	Z	-.928	-.928	0	%100
59	M181A	X	0	0	0	%100
60	M181A	Z	-.232	-.232	0	%100
61	M185A	X	0	0	0	%100
62	M185A	Z	-1.253	-1.253	0	%100
63	M186A	X	0	0	0	%100
64	M186A	Z	-1.702	-1.702	0	%100
65	M188A	X	0	0	0	%100
66	M188A	Z	-1.793	-1.793	0	%100
67	M190A	X	0	0	0	%100
68	M190A	Z	-1.253	-1.253	0	%100
69	M191A	X	0	0	0	%100
70	M191A	Z	-.426	-.426	0	%100
71	M193A	X	0	0	0	%100
72	M193A	Z	-.448	-.448	0	%100
73	M198A	X	0	0	0	%100
74	M198A	Z	-.891	-.891	0	%100
75	M199A	X	0	0	0	%100
76	M199A	Z	-.223	-.223	0	%100
77	M200A	X	0	0	0	%100
78	M200A	Z	-.223	-.223	0	%100
79	M201A	X	0	0	0	%100
80	M201A	Z	-.662	-.662	0	%100
81	M202A	X	0	0	0	%100
82	M202A	Z	-.165	-.165	0	%100
83	M203A	X	0	0	0	%100
84	M203A	Z	-.165	-.165	0	%100
85	M210A	X	0	0	0	%100
86	M210A	Z	-.199	-.199	0	%100
87	M211A	X	0	0	0	%100
88	M211A	Z	-.199	-.199	0	%100
89	M212A	X	0	0	0	%100
90	M212A	Z	-.795	-.795	0	%100
91	MP1A	X	0	0	0	%100
92	MP1A	Z	-.662	-.662	0	%100
93	MP2A	X	0	0	0	%100
94	MP2A	Z	-.662	-.662	0	%100
95	MP3A	X	0	0	0	%100
96	MP3A	Z	-.662	-.662	0	%100
97	MP4A	X	0	0	0	%100
98	MP4A	Z	-.662	-.662	0	%100
99	MP1C	X	0	0	0	%100
100	MP1C	Z	-.662	-.662	0	%100
101	MP2C	X	0	0	0	%100
102	MP2C	Z	-.662	-.662	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,%]
103	MP3C	X	0	0	0	%100
104	MP3C	Z	-.662	-.662	0	%100
105	MP4C	X	0	0	0	%100
106	MP4C	Z	-.662	-.662	0	%100
107	MP1B	X	0	0	0	%100
108	MP1B	Z	-.662	-.662	0	%100
109	MP2B	X	0	0	0	%100
110	MP2B	Z	-.662	-.662	0	%100
111	MP3B	X	0	0	0	%100
112	MP3B	Z	-.662	-.662	0	%100
113	MP4B	X	0	0	0	%100
114	MP4B	Z	-.662	-.662	0	%100
115	M125	X	0	0	0	%100
116	M125	Z	-.541	-.541	0	%100
117	M126	X	0	0	0	%100
118	M126	Z	-.78	-.78	0	%100
119	M127	X	0	0	0	%100
120	M127	Z	-.334	-.334	0	%100
121	M128	X	0	0	0	%100
122	M128	Z	-.78	-.78	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	M4	X	.124	.124	0	%100
2	M4	Z	-.214	-.214	0	%100
3	M10	X	.314	.314	0	%100
4	M10	Z	-.544	-.544	0	%100
5	M43	X	.314	.314	0	%100
6	M43	Z	-.544	-.544	0	%100
7	M46	X	.627	.627	0	%100
8	M46	Z	-1.086	-1.086	0	%100
9	M51B	X	.348	.348	0	%100
10	M51B	Z	-.603	-.603	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	.209	.209	0	%100
14	M76	Z	-.362	-.362	0	%100
15	M77	X	.638	.638	0	%100
16	M77	Z	-1.106	-1.106	0	%100
17	M80	X	.672	.672	0	%100
18	M80	Z	-1.165	-1.165	0	%100
19	M84	X	.209	.209	0	%100
20	M84	Z	-.362	-.362	0	%100
21	M85	X	0	0	0	%100
22	M85	Z	0	0	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	0	0	0	%100
25	M150A	X	.124	.124	0	%100
26	M150A	Z	-.214	-.214	0	%100
27	M151A	X	.314	.314	0	%100
28	M151A	Z	-.544	-.544	0	%100
29	M152A	X	.314	.314	0	%100
30	M152A	Z	-.544	-.544	0	%100
31	M153A	X	.627	.627	0	%100
32	M153A	Z	-1.086	-1.086	0	%100
33	M156A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
34	M156A	Z	0	0	0	%100
35	M157A	X	.348	.348	0	%100
36	M157A	Z	-.603	-.603	0	%100
37	M161A	X	.209	.209	0	%100
38	M161A	Z	-.362	-.362	0	%100
39	M162A	X	0	0	0	%100
40	M162A	Z	0	0	0	%100
41	M164A	X	0	0	0	%100
42	M164A	Z	0	0	0	%100
43	M166A	X	.209	.209	0	%100
44	M166A	Z	-.362	-.362	0	%100
45	M167A	X	.638	.638	0	%100
46	M167A	Z	-1.106	-1.106	0	%100
47	M169A	X	.672	.672	0	%100
48	M169A	Z	-1.165	-1.165	0	%100
49	M174A	X	.495	.495	0	%100
50	M174A	Z	-.858	-.858	0	%100
51	M175A	X	0	0	0	%100
52	M175A	Z	0	0	0	%100
53	M176A	X	0	0	0	%100
54	M176A	Z	0	0	0	%100
55	M177A	X	0	0	0	%100
56	M177A	Z	0	0	0	%100
57	M180A	X	.348	.348	0	%100
58	M180A	Z	-.603	-.603	0	%100
59	M181A	X	.348	.348	0	%100
60	M181A	Z	-.603	-.603	0	%100
61	M185A	X	.836	.836	0	%100
62	M185A	Z	-1.447	-1.447	0	%100
63	M186A	X	.638	.638	0	%100
64	M186A	Z	-1.106	-1.106	0	%100
65	M188A	X	.672	.672	0	%100
66	M188A	Z	-1.165	-1.165	0	%100
67	M190A	X	.836	.836	0	%100
68	M190A	Z	-1.447	-1.447	0	%100
69	M191A	X	.638	.638	0	%100
70	M191A	Z	-1.106	-1.106	0	%100
71	M193A	X	.672	.672	0	%100
72	M193A	Z	-1.165	-1.165	0	%100
73	M198A	X	.334	.334	0	%100
74	M198A	Z	-.579	-.579	0	%100
75	M199A	X	.334	.334	0	%100
76	M199A	Z	-.579	-.579	0	%100
77	M200A	X	0	0	0	%100
78	M200A	Z	0	0	0	%100
79	M201A	X	.248	.248	0	%100
80	M201A	Z	-.43	-.43	0	%100
81	M202A	X	.248	.248	0	%100
82	M202A	Z	-.43	-.43	0	%100
83	M203A	X	0	0	0	%100
84	M203A	Z	0	0	0	%100
85	M210A	X	.298	.298	0	%100
86	M210A	Z	-.516	-.516	0	%100
87	M211A	X	0	0	0	%100
88	M211A	Z	0	0	0	%100
89	M212A	X	.298	.298	0	%100
90	M212A	Z	-.516	-.516	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,%]
91	MP1A	X	.331	.331	0	%100
92	MP1A	Z	-.573	-.573	0	%100
93	MP2A	X	.331	.331	0	%100
94	MP2A	Z	-.573	-.573	0	%100
95	MP3A	X	.331	.331	0	%100
96	MP3A	Z	-.573	-.573	0	%100
97	MP4A	X	.331	.331	0	%100
98	MP4A	Z	-.573	-.573	0	%100
99	MP1C	X	.331	.331	0	%100
100	MP1C	Z	-.573	-.573	0	%100
101	MP2C	X	.331	.331	0	%100
102	MP2C	Z	-.573	-.573	0	%100
103	MP3C	X	.331	.331	0	%100
104	MP3C	Z	-.573	-.573	0	%100
105	MP4C	X	.331	.331	0	%100
106	MP4C	Z	-.573	-.573	0	%100
107	MP1B	X	.331	.331	0	%100
108	MP1B	Z	-.573	-.573	0	%100
109	MP2B	X	.331	.331	0	%100
110	MP2B	Z	-.573	-.573	0	%100
111	MP3B	X	.331	.331	0	%100
112	MP3B	Z	-.573	-.573	0	%100
113	MP4B	X	.331	.331	0	%100
114	MP4B	Z	-.573	-.573	0	%100
115	M125	X	.27	.27	0	%100
116	M125	Z	-.469	-.469	0	%100
117	M126	X	.241	.241	0	%100
118	M126	Z	-.418	-.418	0	%100
119	M127	X	.241	.241	0	%100
120	M127	Z	-.418	-.418	0	%100
121	M128	X	.464	.464	0	%100
122	M128	Z	-.804	-.804	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	M4	X	.643	.643	0	%100
2	M4	Z	-.371	-.371	0	%100
3	M10	X	.181	.181	0	%100
4	M10	Z	-.105	-.105	0	%100
5	M43	X	.181	.181	0	%100
6	M43	Z	-.105	-.105	0	%100
7	M46	X	.362	.362	0	%100
8	M46	Z	-.209	-.209	0	%100
9	M51B	X	.804	.804	0	%100
10	M51B	Z	-.464	-.464	0	%100
11	M52B	X	.201	.201	0	%100
12	M52B	Z	-.116	-.116	0	%100
13	M76	X	1.086	1.086	0	%100
14	M76	Z	-.627	-.627	0	%100
15	M77	X	1.474	1.474	0	%100
16	M77	Z	-.851	-.851	0	%100
17	M80	X	1.553	1.553	0	%100
18	M80	Z	-.896	-.896	0	%100
19	M84	X	1.086	1.086	0	%100
20	M84	Z	-.627	-.627	0	%100
21	M85	X	.369	.369	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,%]
22	M85	Z	-.213	-.213	0	%100
23	M91	X	.388	.388	0	%100
24	M91	Z	-.224	-.224	0	%100
25	M150A	X	0	0	0	%100
26	M150A	Z	0	0	0	%100
27	M151A	X	.726	.726	0	%100
28	M151A	Z	-.419	-.419	0	%100
29	M152A	X	.726	.726	0	%100
30	M152A	Z	-.419	-.419	0	%100
31	M153A	X	1.447	1.447	0	%100
32	M153A	Z	-.836	-.836	0	%100
33	M156A	X	.201	.201	0	%100
34	M156A	Z	-.116	-.116	0	%100
35	M157A	X	.201	.201	0	%100
36	M157A	Z	-.116	-.116	0	%100
37	M161A	X	0	0	0	%100
38	M161A	Z	0	0	0	%100
39	M162A	X	.369	.369	0	%100
40	M162A	Z	-.213	-.213	0	%100
41	M164A	X	.388	.388	0	%100
42	M164A	Z	-.224	-.224	0	%100
43	M166A	X	0	0	0	%100
44	M166A	Z	0	0	0	%100
45	M167A	X	.369	.369	0	%100
46	M167A	Z	-.213	-.213	0	%100
47	M169A	X	.388	.388	0	%100
48	M169A	Z	-.224	-.224	0	%100
49	M174A	X	.643	.643	0	%100
50	M174A	Z	-.371	-.371	0	%100
51	M175A	X	.181	.181	0	%100
52	M175A	Z	-.105	-.105	0	%100
53	M176A	X	.181	.181	0	%100
54	M176A	Z	-.105	-.105	0	%100
55	M177A	X	.362	.362	0	%100
56	M177A	Z	-.209	-.209	0	%100
57	M180A	X	.201	.201	0	%100
58	M180A	Z	-.116	-.116	0	%100
59	M181A	X	.804	.804	0	%100
60	M181A	Z	-.464	-.464	0	%100
61	M185A	X	1.086	1.086	0	%100
62	M185A	Z	-.627	-.627	0	%100
63	M186A	X	.369	.369	0	%100
64	M186A	Z	-.213	-.213	0	%100
65	M188A	X	.388	.388	0	%100
66	M188A	Z	-.224	-.224	0	%100
67	M190A	X	1.086	1.086	0	%100
68	M190A	Z	-.627	-.627	0	%100
69	M191A	X	1.474	1.474	0	%100
70	M191A	Z	-.851	-.851	0	%100
71	M193A	X	1.553	1.553	0	%100
72	M193A	Z	-.896	-.896	0	%100
73	M198A	X	.193	.193	0	%100
74	M198A	Z	-.111	-.111	0	%100
75	M199A	X	.772	.772	0	%100
76	M199A	Z	-.446	-.446	0	%100
77	M200A	X	.193	.193	0	%100
78	M200A	Z	-.111	-.111	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,%]
79	M201A	X	.143	.143	0	%100
80	M201A	Z	-.083	-.083	0	%100
81	M202A	X	.573	.573	0	%100
82	M202A	Z	-.331	-.331	0	%100
83	M203A	X	.143	.143	0	%100
84	M203A	Z	-.083	-.083	0	%100
85	M210A	X	.688	.688	0	%100
86	M210A	Z	-.397	-.397	0	%100
87	M211A	X	.172	.172	0	%100
88	M211A	Z	-.099	-.099	0	%100
89	M212A	X	.172	.172	0	%100
90	M212A	Z	-.099	-.099	0	%100
91	MP1A	X	.573	.573	0	%100
92	MP1A	Z	-.331	-.331	0	%100
93	MP2A	X	.573	.573	0	%100
94	MP2A	Z	-.331	-.331	0	%100
95	MP3A	X	.573	.573	0	%100
96	MP3A	Z	-.331	-.331	0	%100
97	MP4A	X	.573	.573	0	%100
98	MP4A	Z	-.331	-.331	0	%100
99	MP1C	X	.573	.573	0	%100
100	MP1C	Z	-.331	-.331	0	%100
101	MP2C	X	.573	.573	0	%100
102	MP2C	Z	-.331	-.331	0	%100
103	MP3C	X	.573	.573	0	%100
104	MP3C	Z	-.331	-.331	0	%100
105	MP4C	X	.573	.573	0	%100
106	MP4C	Z	-.331	-.331	0	%100
107	MP1B	X	.573	.573	0	%100
108	MP1B	Z	-.331	-.331	0	%100
109	MP2B	X	.573	.573	0	%100
110	MP2B	Z	-.331	-.331	0	%100
111	MP3B	X	.573	.573	0	%100
112	MP3B	Z	-.331	-.331	0	%100
113	MP4B	X	.573	.573	0	%100
114	MP4B	Z	-.331	-.331	0	%100
115	M125	X	.469	.469	0	%100
116	M125	Z	-.27	-.27	0	%100
117	M126	X	.289	.289	0	%100
118	M126	Z	-.167	-.167	0	%100
119	M127	X	.675	.675	0	%100
120	M127	Z	-.39	-.39	0	%100
121	M128	X	.675	.675	0	%100
122	M128	Z	-.39	-.39	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	M4	X	.99	.99	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	0	0	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	0	0	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	0	0	0	%100
9	M51B	X	.696	.696	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,%]
10	M51B	Z	0	0	0	%100
11	M52B	X	.696	.696	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	1.671	1.671	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	1.277	1.277	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	1.345	1.345	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	1.671	1.671	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	1.277	1.277	0	%100
22	M85	Z	0	0	0	%100
23	M91	X	1.345	1.345	0	%100
24	M91	Z	0	0	0	%100
25	M150A	X	.248	.248	0	%100
26	M150A	Z	0	0	0	%100
27	M151A	X	.628	.628	0	%100
28	M151A	Z	0	0	0	%100
29	M152A	X	.628	.628	0	%100
30	M152A	Z	0	0	0	%100
31	M153A	X	1.253	1.253	0	%100
32	M153A	Z	0	0	0	%100
33	M156A	X	.696	.696	0	%100
34	M156A	Z	0	0	0	%100
35	M157A	X	0	0	0	%100
36	M157A	Z	0	0	0	%100
37	M161A	X	.418	.418	0	%100
38	M161A	Z	0	0	0	%100
39	M162A	X	1.277	1.277	0	%100
40	M162A	Z	0	0	0	%100
41	M164A	X	1.345	1.345	0	%100
42	M164A	Z	0	0	0	%100
43	M166A	X	.418	.418	0	%100
44	M166A	Z	0	0	0	%100
45	M167A	X	0	0	0	%100
46	M167A	Z	0	0	0	%100
47	M169A	X	0	0	0	%100
48	M169A	Z	0	0	0	%100
49	M174A	X	.248	.248	0	%100
50	M174A	Z	0	0	0	%100
51	M175A	X	.628	.628	0	%100
52	M175A	Z	0	0	0	%100
53	M176A	X	.628	.628	0	%100
54	M176A	Z	0	0	0	%100
55	M177A	X	1.253	1.253	0	%100
56	M177A	Z	0	0	0	%100
57	M180A	X	0	0	0	%100
58	M180A	Z	0	0	0	%100
59	M181A	X	.696	.696	0	%100
60	M181A	Z	0	0	0	%100
61	M185A	X	.418	.418	0	%100
62	M185A	Z	0	0	0	%100
63	M186A	X	0	0	0	%100
64	M186A	Z	0	0	0	%100
65	M188A	X	0	0	0	%100
66	M188A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
67	M190A	X	.418	.418	0	%100
68	M190A	Z	0	0	0	%100
69	M191A	X	1.277	1.277	0	%100
70	M191A	Z	0	0	0	%100
71	M193A	X	1.345	1.345	0	%100
72	M193A	Z	0	0	0	%100
73	M198A	X	0	0	0	%100
74	M198A	Z	0	0	0	%100
75	M199A	X	.668	.668	0	%100
76	M199A	Z	0	0	0	%100
77	M200A	X	.668	.668	0	%100
78	M200A	Z	0	0	0	%100
79	M201A	X	0	0	0	%100
80	M201A	Z	0	0	0	%100
81	M202A	X	.496	.496	0	%100
82	M202A	Z	0	0	0	%100
83	M203A	X	.496	.496	0	%100
84	M203A	Z	0	0	0	%100
85	M210A	X	.596	.596	0	%100
86	M210A	Z	0	0	0	%100
87	M211A	X	.596	.596	0	%100
88	M211A	Z	0	0	0	%100
89	M212A	X	0	0	0	%100
90	M212A	Z	0	0	0	%100
91	MP1A	X	.662	.662	0	%100
92	MP1A	Z	0	0	0	%100
93	MP2A	X	.662	.662	0	%100
94	MP2A	Z	0	0	0	%100
95	MP3A	X	.662	.662	0	%100
96	MP3A	Z	0	0	0	%100
97	MP4A	X	.662	.662	0	%100
98	MP4A	Z	0	0	0	%100
99	MP1C	X	.662	.662	0	%100
100	MP1C	Z	0	0	0	%100
101	MP2C	X	.662	.662	0	%100
102	MP2C	Z	0	0	0	%100
103	MP3C	X	.662	.662	0	%100
104	MP3C	Z	0	0	0	%100
105	MP4C	X	.662	.662	0	%100
106	MP4C	Z	0	0	0	%100
107	MP1B	X	.662	.662	0	%100
108	MP1B	Z	0	0	0	%100
109	MP2B	X	.662	.662	0	%100
110	MP2B	Z	0	0	0	%100
111	MP3B	X	.662	.662	0	%100
112	MP3B	Z	0	0	0	%100
113	MP4B	X	.662	.662	0	%100
114	MP4B	Z	0	0	0	%100
115	M125	X	.541	.541	0	%100
116	M125	Z	0	0	0	%100
117	M126	X	.483	.483	0	%100
118	M126	Z	0	0	0	%100
119	M127	X	.928	.928	0	%100
120	M127	Z	0	0	0	%100
121	M128	X	.483	.483	0	%100
122	M128	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	M4	X	.643	.643	0	%100
2	M4	Z	.371	.371	0	%100
3	M10	X	.181	.181	0	%100
4	M10	Z	.105	.105	0	%100
5	M43	X	.181	.181	0	%100
6	M43	Z	.105	.105	0	%100
7	M46	X	.362	.362	0	%100
8	M46	Z	.209	.209	0	%100
9	M51B	X	.201	.201	0	%100
10	M51B	Z	.116	.116	0	%100
11	M52B	X	.804	.804	0	%100
12	M52B	Z	.464	.464	0	%100
13	M76	X	1.086	1.086	0	%100
14	M76	Z	.627	.627	0	%100
15	M77	X	.369	.369	0	%100
16	M77	Z	.213	.213	0	%100
17	M80	X	.388	.388	0	%100
18	M80	Z	.224	.224	0	%100
19	M84	X	1.086	1.086	0	%100
20	M84	Z	.627	.627	0	%100
21	M85	X	1.474	1.474	0	%100
22	M85	Z	.851	.851	0	%100
23	M91	X	1.553	1.553	0	%100
24	M91	Z	.896	.896	0	%100
25	M150A	X	.643	.643	0	%100
26	M150A	Z	.371	.371	0	%100
27	M151A	X	.181	.181	0	%100
28	M151A	Z	.105	.105	0	%100
29	M152A	X	.181	.181	0	%100
30	M152A	Z	.105	.105	0	%100
31	M153A	X	.362	.362	0	%100
32	M153A	Z	.209	.209	0	%100
33	M156A	X	.804	.804	0	%100
34	M156A	Z	.464	.464	0	%100
35	M157A	X	.201	.201	0	%100
36	M157A	Z	.116	.116	0	%100
37	M161A	X	1.086	1.086	0	%100
38	M161A	Z	.627	.627	0	%100
39	M162A	X	1.474	1.474	0	%100
40	M162A	Z	.851	.851	0	%100
41	M164A	X	1.553	1.553	0	%100
42	M164A	Z	.896	.896	0	%100
43	M166A	X	1.086	1.086	0	%100
44	M166A	Z	.627	.627	0	%100
45	M167A	X	.369	.369	0	%100
46	M167A	Z	.213	.213	0	%100
47	M169A	X	.388	.388	0	%100
48	M169A	Z	.224	.224	0	%100
49	M174A	X	0	0	0	%100
50	M174A	Z	0	0	0	%100
51	M175A	X	.726	.726	0	%100
52	M175A	Z	.419	.419	0	%100
53	M176A	X	.726	.726	0	%100
54	M176A	Z	.419	.419	0	%100
55	M177A	X	1.447	1.447	0	%100
56	M177A	Z	.836	.836	0	%100
57	M180A	X	.201	.201	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	M180A	Z	.116	.116	0	%100
59	M181A	X	.201	.201	0	%100
60	M181A	Z	.116	.116	0	%100
61	M185A	X	0	0	0	%100
62	M185A	Z	0	0	0	%100
63	M186A	X	.369	.369	0	%100
64	M186A	Z	.213	.213	0	%100
65	M188A	X	.388	.388	0	%100
66	M188A	Z	.224	.224	0	%100
67	M190A	X	0	0	0	%100
68	M190A	Z	0	0	0	%100
69	M191A	X	.369	.369	0	%100
70	M191A	Z	.213	.213	0	%100
71	M193A	X	.388	.388	0	%100
72	M193A	Z	.224	.224	0	%100
73	M198A	X	.193	.193	0	%100
74	M198A	Z	.111	.111	0	%100
75	M199A	X	.193	.193	0	%100
76	M199A	Z	.111	.111	0	%100
77	M200A	X	.772	.772	0	%100
78	M200A	Z	.446	.446	0	%100
79	M201A	X	.143	.143	0	%100
80	M201A	Z	.083	.083	0	%100
81	M202A	X	.143	.143	0	%100
82	M202A	Z	.083	.083	0	%100
83	M203A	X	.573	.573	0	%100
84	M203A	Z	.331	.331	0	%100
85	M210A	X	.172	.172	0	%100
86	M210A	Z	.099	.099	0	%100
87	M211A	X	.688	.688	0	%100
88	M211A	Z	.397	.397	0	%100
89	M212A	X	.172	.172	0	%100
90	M212A	Z	.099	.099	0	%100
91	MP1A	X	.573	.573	0	%100
92	MP1A	Z	.331	.331	0	%100
93	MP2A	X	.573	.573	0	%100
94	MP2A	Z	.331	.331	0	%100
95	MP3A	X	.573	.573	0	%100
96	MP3A	Z	.331	.331	0	%100
97	MP4A	X	.573	.573	0	%100
98	MP4A	Z	.331	.331	0	%100
99	MP1C	X	.573	.573	0	%100
100	MP1C	Z	.331	.331	0	%100
101	MP2C	X	.573	.573	0	%100
102	MP2C	Z	.331	.331	0	%100
103	MP3C	X	.573	.573	0	%100
104	MP3C	Z	.331	.331	0	%100
105	MP4C	X	.573	.573	0	%100
106	MP4C	Z	.331	.331	0	%100
107	MP1B	X	.573	.573	0	%100
108	MP1B	Z	.331	.331	0	%100
109	MP2B	X	.573	.573	0	%100
110	MP2B	Z	.331	.331	0	%100
111	MP3B	X	.573	.573	0	%100
112	MP3B	Z	.331	.331	0	%100
113	MP4B	X	.573	.573	0	%100
114	MP4B	Z	.331	.331	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,%]
115	M125	X	.469	.469	0	%100
116	M125	Z	.27	.27	0	%100
117	M126	X	.675	.675	0	%100
118	M126	Z	.39	.39	0	%100
119	M127	X	.675	.675	0	%100
120	M127	Z	.39	.39	0	%100
121	M128	X	.289	.289	0	%100
122	M128	Z	.167	.167	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	M4	X	.124	.124	0	%100
2	M4	Z	.214	.214	0	%100
3	M10	X	.314	.314	0	%100
4	M10	Z	.544	.544	0	%100
5	M43	X	.314	.314	0	%100
6	M43	Z	.544	.544	0	%100
7	M46	X	.627	.627	0	%100
8	M46	Z	1.086	1.086	0	%100
9	M51B	X	0	0	0	%100
10	M51B	Z	0	0	0	%100
11	M52B	X	.348	.348	0	%100
12	M52B	Z	.603	.603	0	%100
13	M76	X	.209	.209	0	%100
14	M76	Z	.362	.362	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	.209	.209	0	%100
20	M84	Z	.362	.362	0	%100
21	M85	X	.638	.638	0	%100
22	M85	Z	1.106	1.106	0	%100
23	M91	X	.672	.672	0	%100
24	M91	Z	1.165	1.165	0	%100
25	M150A	X	.495	.495	0	%100
26	M150A	Z	.858	.858	0	%100
27	M151A	X	0	0	0	%100
28	M151A	Z	0	0	0	%100
29	M152A	X	0	0	0	%100
30	M152A	Z	0	0	0	%100
31	M153A	X	0	0	0	%100
32	M153A	Z	0	0	0	%100
33	M156A	X	.348	.348	0	%100
34	M156A	Z	.603	.603	0	%100
35	M157A	X	.348	.348	0	%100
36	M157A	Z	.603	.603	0	%100
37	M161A	X	.836	.836	0	%100
38	M161A	Z	1.447	1.447	0	%100
39	M162A	X	.638	.638	0	%100
40	M162A	Z	1.106	1.106	0	%100
41	M164A	X	.672	.672	0	%100
42	M164A	Z	1.165	1.165	0	%100
43	M166A	X	.836	.836	0	%100
44	M166A	Z	1.447	1.447	0	%100
45	M167A	X	.638	.638	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,%]
46	M167A	Z	1.106	1.106	0	%100
47	M169A	X	.672	.672	0	%100
48	M169A	Z	1.165	1.165	0	%100
49	M174A	X	.124	.124	0	%100
50	M174A	Z	.214	.214	0	%100
51	M175A	X	.314	.314	0	%100
52	M175A	Z	.544	.544	0	%100
53	M176A	X	.314	.314	0	%100
54	M176A	Z	.544	.544	0	%100
55	M177A	X	.627	.627	0	%100
56	M177A	Z	1.086	1.086	0	%100
57	M180A	X	.348	.348	0	%100
58	M180A	Z	.603	.603	0	%100
59	M181A	X	0	0	0	%100
60	M181A	Z	0	0	0	%100
61	M185A	X	.209	.209	0	%100
62	M185A	Z	.362	.362	0	%100
63	M186A	X	.638	.638	0	%100
64	M186A	Z	1.106	1.106	0	%100
65	M188A	X	.672	.672	0	%100
66	M188A	Z	1.165	1.165	0	%100
67	M190A	X	.209	.209	0	%100
68	M190A	Z	.362	.362	0	%100
69	M191A	X	0	0	0	%100
70	M191A	Z	0	0	0	%100
71	M193A	X	0	0	0	%100
72	M193A	Z	0	0	0	%100
73	M198A	X	.334	.334	0	%100
74	M198A	Z	.579	.579	0	%100
75	M199A	X	0	0	0	%100
76	M199A	Z	0	0	0	%100
77	M200A	X	.334	.334	0	%100
78	M200A	Z	.579	.579	0	%100
79	M201A	X	.248	.248	0	%100
80	M201A	Z	.43	.43	0	%100
81	M202A	X	0	0	0	%100
82	M202A	Z	0	0	0	%100
83	M203A	X	.248	.248	0	%100
84	M203A	Z	.43	.43	0	%100
85	M210A	X	0	0	0	%100
86	M210A	Z	0	0	0	%100
87	M211A	X	.298	.298	0	%100
88	M211A	Z	.516	.516	0	%100
89	M212A	X	.298	.298	0	%100
90	M212A	Z	.516	.516	0	%100
91	MP1A	X	.331	.331	0	%100
92	MP1A	Z	.573	.573	0	%100
93	MP2A	X	.331	.331	0	%100
94	MP2A	Z	.573	.573	0	%100
95	MP3A	X	.331	.331	0	%100
96	MP3A	Z	.573	.573	0	%100
97	MP4A	X	.331	.331	0	%100
98	MP4A	Z	.573	.573	0	%100
99	MP1C	X	.331	.331	0	%100
100	MP1C	Z	.573	.573	0	%100
101	MP2C	X	.331	.331	0	%100
102	MP2C	Z	.573	.573	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,%]
103	MP3C	X	.331	.331	0	%100
104	MP3C	Z	.573	.573	0	%100
105	MP4C	X	.331	.331	0	%100
106	MP4C	Z	.573	.573	0	%100
107	MP1B	X	.331	.331	0	%100
108	MP1B	Z	.573	.573	0	%100
109	MP2B	X	.331	.331	0	%100
110	MP2B	Z	.573	.573	0	%100
111	MP3B	X	.331	.331	0	%100
112	MP3B	Z	.573	.573	0	%100
113	MP4B	X	.331	.331	0	%100
114	MP4B	Z	.573	.573	0	%100
115	M125	X	.27	.27	0	%100
116	M125	Z	.469	.469	0	%100
117	M126	X	.464	.464	0	%100
118	M126	Z	.804	.804	0	%100
119	M127	X	.241	.241	0	%100
120	M127	Z	.418	.418	0	%100
121	M128	X	.241	.241	0	%100
122	M128	Z	.418	.418	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	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	.838	.838	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	.838	.838	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	1.671	1.671	0	%100
9	M51B	X	0	0	0	%100
10	M51B	Z	.232	.232	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	.232	.232	0	%100
13	M76	X	0	0	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	.426	.426	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	.448	.448	0	%100
19	M84	X	0	0	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	0	0	0	%100
22	M85	Z	.426	.426	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	.448	.448	0	%100
25	M150A	X	0	0	0	%100
26	M150A	Z	.743	.743	0	%100
27	M151A	X	0	0	0	%100
28	M151A	Z	.209	.209	0	%100
29	M152A	X	0	0	0	%100
30	M152A	Z	.209	.209	0	%100
31	M153A	X	0	0	0	%100
32	M153A	Z	.418	.418	0	%100
33	M156A	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,%]
34	M156A	Z	.232	.232	0	%100
35	M157A	X	0	0	0	%100
36	M157A	Z	.928	.928	0	%100
37	M161A	X	0	0	0	%100
38	M161A	Z	1.253	1.253	0	%100
39	M162A	X	0	0	0	%100
40	M162A	Z	.426	.426	0	%100
41	M164A	X	0	0	0	%100
42	M164A	Z	.448	.448	0	%100
43	M166A	X	0	0	0	%100
44	M166A	Z	1.253	1.253	0	%100
45	M167A	X	0	0	0	%100
46	M167A	Z	1.702	1.702	0	%100
47	M169A	X	0	0	0	%100
48	M169A	Z	1.793	1.793	0	%100
49	M174A	X	0	0	0	%100
50	M174A	Z	.743	.743	0	%100
51	M175A	X	0	0	0	%100
52	M175A	Z	.209	.209	0	%100
53	M176A	X	0	0	0	%100
54	M176A	Z	.209	.209	0	%100
55	M177A	X	0	0	0	%100
56	M177A	Z	.418	.418	0	%100
57	M180A	X	0	0	0	%100
58	M180A	Z	.928	.928	0	%100
59	M181A	X	0	0	0	%100
60	M181A	Z	.232	.232	0	%100
61	M185A	X	0	0	0	%100
62	M185A	Z	1.253	1.253	0	%100
63	M186A	X	0	0	0	%100
64	M186A	Z	1.702	1.702	0	%100
65	M188A	X	0	0	0	%100
66	M188A	Z	1.793	1.793	0	%100
67	M190A	X	0	0	0	%100
68	M190A	Z	1.253	1.253	0	%100
69	M191A	X	0	0	0	%100
70	M191A	Z	.426	.426	0	%100
71	M193A	X	0	0	0	%100
72	M193A	Z	.448	.448	0	%100
73	M198A	X	0	0	0	%100
74	M198A	Z	.891	.891	0	%100
75	M199A	X	0	0	0	%100
76	M199A	Z	.223	.223	0	%100
77	M200A	X	0	0	0	%100
78	M200A	Z	.223	.223	0	%100
79	M201A	X	0	0	0	%100
80	M201A	Z	.662	.662	0	%100
81	M202A	X	0	0	0	%100
82	M202A	Z	.165	.165	0	%100
83	M203A	X	0	0	0	%100
84	M203A	Z	.165	.165	0	%100
85	M210A	X	0	0	0	%100
86	M210A	Z	.199	.199	0	%100
87	M211A	X	0	0	0	%100
88	M211A	Z	.199	.199	0	%100
89	M212A	X	0	0	0	%100
90	M212A	Z	.795	.795	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,%]
91	MP1A	X	0	0	0	%100
92	MP1A	Z	.662	.662	0	%100
93	MP2A	X	0	0	0	%100
94	MP2A	Z	.662	.662	0	%100
95	MP3A	X	0	0	0	%100
96	MP3A	Z	.662	.662	0	%100
97	MP4A	X	0	0	0	%100
98	MP4A	Z	.662	.662	0	%100
99	MP1C	X	0	0	0	%100
100	MP1C	Z	.662	.662	0	%100
101	MP2C	X	0	0	0	%100
102	MP2C	Z	.662	.662	0	%100
103	MP3C	X	0	0	0	%100
104	MP3C	Z	.662	.662	0	%100
105	MP4C	X	0	0	0	%100
106	MP4C	Z	.662	.662	0	%100
107	MP1B	X	0	0	0	%100
108	MP1B	Z	.662	.662	0	%100
109	MP2B	X	0	0	0	%100
110	MP2B	Z	.662	.662	0	%100
111	MP3B	X	0	0	0	%100
112	MP3B	Z	.662	.662	0	%100
113	MP4B	X	0	0	0	%100
114	MP4B	Z	.662	.662	0	%100
115	M125	X	0	0	0	%100
116	M125	Z	.541	.541	0	%100
117	M126	X	0	0	0	%100
118	M126	Z	.78	.78	0	%100
119	M127	X	0	0	0	%100
120	M127	Z	.334	.334	0	%100
121	M128	X	0	0	0	%100
122	M128	Z	.78	.78	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	M4	X	-.124	-.124	0	%100
2	M4	Z	.214	.214	0	%100
3	M10	X	-.314	-.314	0	%100
4	M10	Z	.544	.544	0	%100
5	M43	X	-.314	-.314	0	%100
6	M43	Z	.544	.544	0	%100
7	M46	X	-.627	-.627	0	%100
8	M46	Z	1.086	1.086	0	%100
9	M51B	X	-.348	-.348	0	%100
10	M51B	Z	.603	.603	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	-.209	-.209	0	%100
14	M76	Z	.362	.362	0	%100
15	M77	X	-.638	-.638	0	%100
16	M77	Z	1.106	1.106	0	%100
17	M80	X	-.672	-.672	0	%100
18	M80	Z	1.165	1.165	0	%100
19	M84	X	-.209	-.209	0	%100
20	M84	Z	.362	.362	0	%100
21	M85	X	0	0	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,%]
22	M85	Z	0	0	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	0	0	0	%100
25	M150A	X	-.124	-.124	0	%100
26	M150A	Z	.214	.214	0	%100
27	M151A	X	-.314	-.314	0	%100
28	M151A	Z	.544	.544	0	%100
29	M152A	X	-.314	-.314	0	%100
30	M152A	Z	.544	.544	0	%100
31	M153A	X	-.627	-.627	0	%100
32	M153A	Z	1.086	1.086	0	%100
33	M156A	X	0	0	0	%100
34	M156A	Z	0	0	0	%100
35	M157A	X	-.348	-.348	0	%100
36	M157A	Z	.603	.603	0	%100
37	M161A	X	-.209	-.209	0	%100
38	M161A	Z	.362	.362	0	%100
39	M162A	X	0	0	0	%100
40	M162A	Z	0	0	0	%100
41	M164A	X	0	0	0	%100
42	M164A	Z	0	0	0	%100
43	M166A	X	-.209	-.209	0	%100
44	M166A	Z	.362	.362	0	%100
45	M167A	X	-.638	-.638	0	%100
46	M167A	Z	1.106	1.106	0	%100
47	M169A	X	-.672	-.672	0	%100
48	M169A	Z	1.165	1.165	0	%100
49	M174A	X	-.495	-.495	0	%100
50	M174A	Z	.858	.858	0	%100
51	M175A	X	0	0	0	%100
52	M175A	Z	0	0	0	%100
53	M176A	X	0	0	0	%100
54	M176A	Z	0	0	0	%100
55	M177A	X	0	0	0	%100
56	M177A	Z	0	0	0	%100
57	M180A	X	-.348	-.348	0	%100
58	M180A	Z	.603	.603	0	%100
59	M181A	X	-.348	-.348	0	%100
60	M181A	Z	.603	.603	0	%100
61	M185A	X	-.836	-.836	0	%100
62	M185A	Z	1.447	1.447	0	%100
63	M186A	X	-.638	-.638	0	%100
64	M186A	Z	1.106	1.106	0	%100
65	M188A	X	-.672	-.672	0	%100
66	M188A	Z	1.165	1.165	0	%100
67	M190A	X	-.836	-.836	0	%100
68	M190A	Z	1.447	1.447	0	%100
69	M191A	X	-.638	-.638	0	%100
70	M191A	Z	1.106	1.106	0	%100
71	M193A	X	-.672	-.672	0	%100
72	M193A	Z	1.165	1.165	0	%100
73	M198A	X	-.334	-.334	0	%100
74	M198A	Z	.579	.579	0	%100
75	M199A	X	-.334	-.334	0	%100
76	M199A	Z	.579	.579	0	%100
77	M200A	X	0	0	0	%100
78	M200A	Z	0	0	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,%]
79	M201A	X	-.248	-.248	0	%100
80	M201A	Z	.43	.43	0	%100
81	M202A	X	-.248	-.248	0	%100
82	M202A	Z	.43	.43	0	%100
83	M203A	X	0	0	0	%100
84	M203A	Z	0	0	0	%100
85	M210A	X	-.298	-.298	0	%100
86	M210A	Z	.516	.516	0	%100
87	M211A	X	0	0	0	%100
88	M211A	Z	0	0	0	%100
89	M212A	X	-.298	-.298	0	%100
90	M212A	Z	.516	.516	0	%100
91	MP1A	X	-.331	-.331	0	%100
92	MP1A	Z	.573	.573	0	%100
93	MP2A	X	-.331	-.331	0	%100
94	MP2A	Z	.573	.573	0	%100
95	MP3A	X	-.331	-.331	0	%100
96	MP3A	Z	.573	.573	0	%100
97	MP4A	X	-.331	-.331	0	%100
98	MP4A	Z	.573	.573	0	%100
99	MP1C	X	-.331	-.331	0	%100
100	MP1C	Z	.573	.573	0	%100
101	MP2C	X	-.331	-.331	0	%100
102	MP2C	Z	.573	.573	0	%100
103	MP3C	X	-.331	-.331	0	%100
104	MP3C	Z	.573	.573	0	%100
105	MP4C	X	-.331	-.331	0	%100
106	MP4C	Z	.573	.573	0	%100
107	MP1B	X	-.331	-.331	0	%100
108	MP1B	Z	.573	.573	0	%100
109	MP2B	X	-.331	-.331	0	%100
110	MP2B	Z	.573	.573	0	%100
111	MP3B	X	-.331	-.331	0	%100
112	MP3B	Z	.573	.573	0	%100
113	MP4B	X	-.331	-.331	0	%100
114	MP4B	Z	.573	.573	0	%100
115	M125	X	-.27	-.27	0	%100
116	M125	Z	.469	.469	0	%100
117	M126	X	-.241	-.241	0	%100
118	M126	Z	.418	.418	0	%100
119	M127	X	-.241	-.241	0	%100
120	M127	Z	.418	.418	0	%100
121	M128	X	-.464	-.464	0	%100
122	M128	Z	.804	.804	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	M4	X	-.643	-.643	0	%100
2	M4	Z	.371	.371	0	%100
3	M10	X	-.181	-.181	0	%100
4	M10	Z	.105	.105	0	%100
5	M43	X	-.181	-.181	0	%100
6	M43	Z	.105	.105	0	%100
7	M46	X	-.362	-.362	0	%100
8	M46	Z	.209	.209	0	%100
9	M51B	X	-.804	-.804	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,%]
10	M51B	Z	.464	.464	0	%100
11	M52B	X	-.201	-.201	0	%100
12	M52B	Z	.116	.116	0	%100
13	M76	X	-1.086	-1.086	0	%100
14	M76	Z	.627	.627	0	%100
15	M77	X	-1.474	-1.474	0	%100
16	M77	Z	.851	.851	0	%100
17	M80	X	-1.553	-1.553	0	%100
18	M80	Z	.896	.896	0	%100
19	M84	X	-1.086	-1.086	0	%100
20	M84	Z	.627	.627	0	%100
21	M85	X	-.369	-.369	0	%100
22	M85	Z	.213	.213	0	%100
23	M91	X	-.388	-.388	0	%100
24	M91	Z	.224	.224	0	%100
25	M150A	X	0	0	0	%100
26	M150A	Z	0	0	0	%100
27	M151A	X	-.726	-.726	0	%100
28	M151A	Z	.419	.419	0	%100
29	M152A	X	-.726	-.726	0	%100
30	M152A	Z	.419	.419	0	%100
31	M153A	X	-1.447	-1.447	0	%100
32	M153A	Z	.836	.836	0	%100
33	M156A	X	-.201	-.201	0	%100
34	M156A	Z	.116	.116	0	%100
35	M157A	X	-.201	-.201	0	%100
36	M157A	Z	.116	.116	0	%100
37	M161A	X	0	0	0	%100
38	M161A	Z	0	0	0	%100
39	M162A	X	-.369	-.369	0	%100
40	M162A	Z	.213	.213	0	%100
41	M164A	X	-.388	-.388	0	%100
42	M164A	Z	.224	.224	0	%100
43	M166A	X	0	0	0	%100
44	M166A	Z	0	0	0	%100
45	M167A	X	-.369	-.369	0	%100
46	M167A	Z	.213	.213	0	%100
47	M169A	X	-.388	-.388	0	%100
48	M169A	Z	.224	.224	0	%100
49	M174A	X	-.643	-.643	0	%100
50	M174A	Z	.371	.371	0	%100
51	M175A	X	-.181	-.181	0	%100
52	M175A	Z	.105	.105	0	%100
53	M176A	X	-.181	-.181	0	%100
54	M176A	Z	.105	.105	0	%100
55	M177A	X	-.362	-.362	0	%100
56	M177A	Z	.209	.209	0	%100
57	M180A	X	-.201	-.201	0	%100
58	M180A	Z	.116	.116	0	%100
59	M181A	X	-.804	-.804	0	%100
60	M181A	Z	.464	.464	0	%100
61	M185A	X	-1.086	-1.086	0	%100
62	M185A	Z	.627	.627	0	%100
63	M186A	X	-.369	-.369	0	%100
64	M186A	Z	.213	.213	0	%100
65	M188A	X	-.388	-.388	0	%100
66	M188A	Z	.224	.224	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,%]
67	M190A	X	-1.086	-1.086	0	%100
68	M190A	Z	.627	.627	0	%100
69	M191A	X	-1.474	-1.474	0	%100
70	M191A	Z	.851	.851	0	%100
71	M193A	X	-1.553	-1.553	0	%100
72	M193A	Z	.896	.896	0	%100
73	M198A	X	-.193	-.193	0	%100
74	M198A	Z	.111	.111	0	%100
75	M199A	X	-.772	-.772	0	%100
76	M199A	Z	.446	.446	0	%100
77	M200A	X	-.193	-.193	0	%100
78	M200A	Z	.111	.111	0	%100
79	M201A	X	-.143	-.143	0	%100
80	M201A	Z	.083	.083	0	%100
81	M202A	X	-.573	-.573	0	%100
82	M202A	Z	.331	.331	0	%100
83	M203A	X	-.143	-.143	0	%100
84	M203A	Z	.083	.083	0	%100
85	M210A	X	-.688	-.688	0	%100
86	M210A	Z	.397	.397	0	%100
87	M211A	X	-.172	-.172	0	%100
88	M211A	Z	.099	.099	0	%100
89	M212A	X	-.172	-.172	0	%100
90	M212A	Z	.099	.099	0	%100
91	MP1A	X	-.573	-.573	0	%100
92	MP1A	Z	.331	.331	0	%100
93	MP2A	X	-.573	-.573	0	%100
94	MP2A	Z	.331	.331	0	%100
95	MP3A	X	-.573	-.573	0	%100
96	MP3A	Z	.331	.331	0	%100
97	MP4A	X	-.573	-.573	0	%100
98	MP4A	Z	.331	.331	0	%100
99	MP1C	X	-.573	-.573	0	%100
100	MP1C	Z	.331	.331	0	%100
101	MP2C	X	-.573	-.573	0	%100
102	MP2C	Z	.331	.331	0	%100
103	MP3C	X	-.573	-.573	0	%100
104	MP3C	Z	.331	.331	0	%100
105	MP4C	X	-.573	-.573	0	%100
106	MP4C	Z	.331	.331	0	%100
107	MP1B	X	-.573	-.573	0	%100
108	MP1B	Z	.331	.331	0	%100
109	MP2B	X	-.573	-.573	0	%100
110	MP2B	Z	.331	.331	0	%100
111	MP3B	X	-.573	-.573	0	%100
112	MP3B	Z	.331	.331	0	%100
113	MP4B	X	-.573	-.573	0	%100
114	MP4B	Z	.331	.331	0	%100
115	M125	X	-.469	-.469	0	%100
116	M125	Z	.27	.27	0	%100
117	M126	X	-.289	-.289	0	%100
118	M126	Z	.167	.167	0	%100
119	M127	X	-.675	-.675	0	%100
120	M127	Z	.39	.39	0	%100
121	M128	X	-.675	-.675	0	%100
122	M128	Z	.39	.39	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	M4	X	-.99	-.99	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	0	0	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	0	0	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	0	0	0	%100
9	M51B	X	-.696	-.696	0	%100
10	M51B	Z	0	0	0	%100
11	M52B	X	-.696	-.696	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	-1.671	-1.671	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	-1.277	-1.277	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	-1.345	-1.345	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	-1.671	-1.671	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	-1.277	-1.277	0	%100
22	M85	Z	0	0	0	%100
23	M91	X	-1.345	-1.345	0	%100
24	M91	Z	0	0	0	%100
25	M150A	X	-.248	-.248	0	%100
26	M150A	Z	0	0	0	%100
27	M151A	X	-.628	-.628	0	%100
28	M151A	Z	0	0	0	%100
29	M152A	X	-.628	-.628	0	%100
30	M152A	Z	0	0	0	%100
31	M153A	X	-1.253	-1.253	0	%100
32	M153A	Z	0	0	0	%100
33	M156A	X	-.696	-.696	0	%100
34	M156A	Z	0	0	0	%100
35	M157A	X	0	0	0	%100
36	M157A	Z	0	0	0	%100
37	M161A	X	-.418	-.418	0	%100
38	M161A	Z	0	0	0	%100
39	M162A	X	-1.277	-1.277	0	%100
40	M162A	Z	0	0	0	%100
41	M164A	X	-1.345	-1.345	0	%100
42	M164A	Z	0	0	0	%100
43	M166A	X	-.418	-.418	0	%100
44	M166A	Z	0	0	0	%100
45	M167A	X	0	0	0	%100
46	M167A	Z	0	0	0	%100
47	M169A	X	0	0	0	%100
48	M169A	Z	0	0	0	%100
49	M174A	X	-.248	-.248	0	%100
50	M174A	Z	0	0	0	%100
51	M175A	X	-.628	-.628	0	%100
52	M175A	Z	0	0	0	%100
53	M176A	X	-.628	-.628	0	%100
54	M176A	Z	0	0	0	%100
55	M177A	X	-1.253	-1.253	0	%100
56	M177A	Z	0	0	0	%100
57	M180A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M180A	Z	0	0	0	%100
59	M181A	X	-.696	-.696	0	%100
60	M181A	Z	0	0	0	%100
61	M185A	X	-.418	-.418	0	%100
62	M185A	Z	0	0	0	%100
63	M186A	X	0	0	0	%100
64	M186A	Z	0	0	0	%100
65	M188A	X	0	0	0	%100
66	M188A	Z	0	0	0	%100
67	M190A	X	-.418	-.418	0	%100
68	M190A	Z	0	0	0	%100
69	M191A	X	-1.277	-1.277	0	%100
70	M191A	Z	0	0	0	%100
71	M193A	X	-1.345	-1.345	0	%100
72	M193A	Z	0	0	0	%100
73	M198A	X	0	0	0	%100
74	M198A	Z	0	0	0	%100
75	M199A	X	-.668	-.668	0	%100
76	M199A	Z	0	0	0	%100
77	M200A	X	-.668	-.668	0	%100
78	M200A	Z	0	0	0	%100
79	M201A	X	0	0	0	%100
80	M201A	Z	0	0	0	%100
81	M202A	X	-.496	-.496	0	%100
82	M202A	Z	0	0	0	%100
83	M203A	X	-.496	-.496	0	%100
84	M203A	Z	0	0	0	%100
85	M210A	X	-.596	-.596	0	%100
86	M210A	Z	0	0	0	%100
87	M211A	X	-.596	-.596	0	%100
88	M211A	Z	0	0	0	%100
89	M212A	X	0	0	0	%100
90	M212A	Z	0	0	0	%100
91	MP1A	X	-.662	-.662	0	%100
92	MP1A	Z	0	0	0	%100
93	MP2A	X	-.662	-.662	0	%100
94	MP2A	Z	0	0	0	%100
95	MP3A	X	-.662	-.662	0	%100
96	MP3A	Z	0	0	0	%100
97	MP4A	X	-.662	-.662	0	%100
98	MP4A	Z	0	0	0	%100
99	MP1C	X	-.662	-.662	0	%100
100	MP1C	Z	0	0	0	%100
101	MP2C	X	-.662	-.662	0	%100
102	MP2C	Z	0	0	0	%100
103	MP3C	X	-.662	-.662	0	%100
104	MP3C	Z	0	0	0	%100
105	MP4C	X	-.662	-.662	0	%100
106	MP4C	Z	0	0	0	%100
107	MP1B	X	-.662	-.662	0	%100
108	MP1B	Z	0	0	0	%100
109	MP2B	X	-.662	-.662	0	%100
110	MP2B	Z	0	0	0	%100
111	MP3B	X	-.662	-.662	0	%100
112	MP3B	Z	0	0	0	%100
113	MP4B	X	-.662	-.662	0	%100
114	MP4B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
115	M125	X	-.541	-.541	0	%100
116	M125	Z	0	0	0	%100
117	M126	X	-.483	-.483	0	%100
118	M126	Z	0	0	0	%100
119	M127	X	-.928	-.928	0	%100
120	M127	Z	0	0	0	%100
121	M128	X	-.483	-.483	0	%100
122	M128	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	M4	X	-.643	-.643	0	%100
2	M4	Z	-.371	-.371	0	%100
3	M10	X	-.181	-.181	0	%100
4	M10	Z	-.105	-.105	0	%100
5	M43	X	-.181	-.181	0	%100
6	M43	Z	-.105	-.105	0	%100
7	M46	X	-.362	-.362	0	%100
8	M46	Z	-.209	-.209	0	%100
9	M51B	X	-.201	-.201	0	%100
10	M51B	Z	-.116	-.116	0	%100
11	M52B	X	-.804	-.804	0	%100
12	M52B	Z	-.464	-.464	0	%100
13	M76	X	-1.086	-1.086	0	%100
14	M76	Z	-.627	-.627	0	%100
15	M77	X	-.369	-.369	0	%100
16	M77	Z	-.213	-.213	0	%100
17	M80	X	-.388	-.388	0	%100
18	M80	Z	-.224	-.224	0	%100
19	M84	X	-1.086	-1.086	0	%100
20	M84	Z	-.627	-.627	0	%100
21	M85	X	-1.474	-1.474	0	%100
22	M85	Z	-.851	-.851	0	%100
23	M91	X	-1.553	-1.553	0	%100
24	M91	Z	-.896	-.896	0	%100
25	M150A	X	-.643	-.643	0	%100
26	M150A	Z	-.371	-.371	0	%100
27	M151A	X	-.181	-.181	0	%100
28	M151A	Z	-.105	-.105	0	%100
29	M152A	X	-.181	-.181	0	%100
30	M152A	Z	-.105	-.105	0	%100
31	M153A	X	-.362	-.362	0	%100
32	M153A	Z	-.209	-.209	0	%100
33	M156A	X	-.804	-.804	0	%100
34	M156A	Z	-.464	-.464	0	%100
35	M157A	X	-.201	-.201	0	%100
36	M157A	Z	-.116	-.116	0	%100
37	M161A	X	-1.086	-1.086	0	%100
38	M161A	Z	-.627	-.627	0	%100
39	M162A	X	-1.474	-1.474	0	%100
40	M162A	Z	-.851	-.851	0	%100
41	M164A	X	-1.553	-1.553	0	%100
42	M164A	Z	-.896	-.896	0	%100
43	M166A	X	-1.086	-1.086	0	%100
44	M166A	Z	-.627	-.627	0	%100
45	M167A	X	-.369	-.369	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,%]
46	M167A	Z	-.213	-.213	0	%100
47	M169A	X	-.388	-.388	0	%100
48	M169A	Z	-.224	-.224	0	%100
49	M174A	X	0	0	0	%100
50	M174A	Z	0	0	0	%100
51	M175A	X	-.726	-.726	0	%100
52	M175A	Z	-.419	-.419	0	%100
53	M176A	X	-.726	-.726	0	%100
54	M176A	Z	-.419	-.419	0	%100
55	M177A	X	-1.447	-1.447	0	%100
56	M177A	Z	-.836	-.836	0	%100
57	M180A	X	-.201	-.201	0	%100
58	M180A	Z	-.116	-.116	0	%100
59	M181A	X	-.201	-.201	0	%100
60	M181A	Z	-.116	-.116	0	%100
61	M185A	X	0	0	0	%100
62	M185A	Z	0	0	0	%100
63	M186A	X	-.369	-.369	0	%100
64	M186A	Z	-.213	-.213	0	%100
65	M188A	X	-.388	-.388	0	%100
66	M188A	Z	-.224	-.224	0	%100
67	M190A	X	0	0	0	%100
68	M190A	Z	0	0	0	%100
69	M191A	X	-.369	-.369	0	%100
70	M191A	Z	-.213	-.213	0	%100
71	M193A	X	-.388	-.388	0	%100
72	M193A	Z	-.224	-.224	0	%100
73	M198A	X	-.193	-.193	0	%100
74	M198A	Z	-.111	-.111	0	%100
75	M199A	X	-.193	-.193	0	%100
76	M199A	Z	-.111	-.111	0	%100
77	M200A	X	-.772	-.772	0	%100
78	M200A	Z	-.446	-.446	0	%100
79	M201A	X	-.143	-.143	0	%100
80	M201A	Z	-.083	-.083	0	%100
81	M202A	X	-.143	-.143	0	%100
82	M202A	Z	-.083	-.083	0	%100
83	M203A	X	-.573	-.573	0	%100
84	M203A	Z	-.331	-.331	0	%100
85	M210A	X	-.172	-.172	0	%100
86	M210A	Z	-.099	-.099	0	%100
87	M211A	X	-.688	-.688	0	%100
88	M211A	Z	-.397	-.397	0	%100
89	M212A	X	-.172	-.172	0	%100
90	M212A	Z	-.099	-.099	0	%100
91	MP1A	X	-.573	-.573	0	%100
92	MP1A	Z	-.331	-.331	0	%100
93	MP2A	X	-.573	-.573	0	%100
94	MP2A	Z	-.331	-.331	0	%100
95	MP3A	X	-.573	-.573	0	%100
96	MP3A	Z	-.331	-.331	0	%100
97	MP4A	X	-.573	-.573	0	%100
98	MP4A	Z	-.331	-.331	0	%100
99	MP1C	X	-.573	-.573	0	%100
100	MP1C	Z	-.331	-.331	0	%100
101	MP2C	X	-.573	-.573	0	%100
102	MP2C	Z	-.331	-.331	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,%]
103	MP3C	X	-.573	-.573	0	%100
104	MP3C	Z	-.331	-.331	0	%100
105	MP4C	X	-.573	-.573	0	%100
106	MP4C	Z	-.331	-.331	0	%100
107	MP1B	X	-.573	-.573	0	%100
108	MP1B	Z	-.331	-.331	0	%100
109	MP2B	X	-.573	-.573	0	%100
110	MP2B	Z	-.331	-.331	0	%100
111	MP3B	X	-.573	-.573	0	%100
112	MP3B	Z	-.331	-.331	0	%100
113	MP4B	X	-.573	-.573	0	%100
114	MP4B	Z	-.331	-.331	0	%100
115	M125	X	-.469	-.469	0	%100
116	M125	Z	-.27	-.27	0	%100
117	M126	X	-.675	-.675	0	%100
118	M126	Z	-.39	-.39	0	%100
119	M127	X	-.675	-.675	0	%100
120	M127	Z	-.39	-.39	0	%100
121	M128	X	-.289	-.289	0	%100
122	M128	Z	-.167	-.167	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	M4	X	-.124	-.124	0	%100
2	M4	Z	-.214	-.214	0	%100
3	M10	X	-.314	-.314	0	%100
4	M10	Z	-.544	-.544	0	%100
5	M43	X	-.314	-.314	0	%100
6	M43	Z	-.544	-.544	0	%100
7	M46	X	-.627	-.627	0	%100
8	M46	Z	-1.086	-1.086	0	%100
9	M51B	X	0	0	0	%100
10	M51B	Z	0	0	0	%100
11	M52B	X	-.348	-.348	0	%100
12	M52B	Z	-.603	-.603	0	%100
13	M76	X	-.209	-.209	0	%100
14	M76	Z	-.362	-.362	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	-.209	-.209	0	%100
20	M84	Z	-.362	-.362	0	%100
21	M85	X	-.638	-.638	0	%100
22	M85	Z	-1.106	-1.106	0	%100
23	M91	X	-.672	-.672	0	%100
24	M91	Z	-1.165	-1.165	0	%100
25	M150A	X	-.495	-.495	0	%100
26	M150A	Z	-.858	-.858	0	%100
27	M151A	X	0	0	0	%100
28	M151A	Z	0	0	0	%100
29	M152A	X	0	0	0	%100
30	M152A	Z	0	0	0	%100
31	M153A	X	0	0	0	%100
32	M153A	Z	0	0	0	%100
33	M156A	X	-.348	-.348	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,%]
34	M156A	Z	-.603	-.603	0	%100
35	M157A	X	-.348	-.348	0	%100
36	M157A	Z	-.603	-.603	0	%100
37	M161A	X	-.836	-.836	0	%100
38	M161A	Z	-1.447	-1.447	0	%100
39	M162A	X	-.638	-.638	0	%100
40	M162A	Z	-1.106	-1.106	0	%100
41	M164A	X	-.672	-.672	0	%100
42	M164A	Z	-1.165	-1.165	0	%100
43	M166A	X	-.836	-.836	0	%100
44	M166A	Z	-1.447	-1.447	0	%100
45	M167A	X	-.638	-.638	0	%100
46	M167A	Z	-1.106	-1.106	0	%100
47	M169A	X	-.672	-.672	0	%100
48	M169A	Z	-1.165	-1.165	0	%100
49	M174A	X	-.124	-.124	0	%100
50	M174A	Z	-.214	-.214	0	%100
51	M175A	X	-.314	-.314	0	%100
52	M175A	Z	-.544	-.544	0	%100
53	M176A	X	-.314	-.314	0	%100
54	M176A	Z	-.544	-.544	0	%100
55	M177A	X	-.627	-.627	0	%100
56	M177A	Z	-1.086	-1.086	0	%100
57	M180A	X	-.348	-.348	0	%100
58	M180A	Z	-.603	-.603	0	%100
59	M181A	X	0	0	0	%100
60	M181A	Z	0	0	0	%100
61	M185A	X	-.209	-.209	0	%100
62	M185A	Z	-.362	-.362	0	%100
63	M186A	X	-.638	-.638	0	%100
64	M186A	Z	-1.106	-1.106	0	%100
65	M188A	X	-.672	-.672	0	%100
66	M188A	Z	-1.165	-1.165	0	%100
67	M190A	X	-.209	-.209	0	%100
68	M190A	Z	-.362	-.362	0	%100
69	M191A	X	0	0	0	%100
70	M191A	Z	0	0	0	%100
71	M193A	X	0	0	0	%100
72	M193A	Z	0	0	0	%100
73	M198A	X	-.334	-.334	0	%100
74	M198A	Z	-.579	-.579	0	%100
75	M199A	X	0	0	0	%100
76	M199A	Z	0	0	0	%100
77	M200A	X	-.334	-.334	0	%100
78	M200A	Z	-.579	-.579	0	%100
79	M201A	X	-.248	-.248	0	%100
80	M201A	Z	-.43	-.43	0	%100
81	M202A	X	0	0	0	%100
82	M202A	Z	0	0	0	%100
83	M203A	X	-.248	-.248	0	%100
84	M203A	Z	-.43	-.43	0	%100
85	M210A	X	0	0	0	%100
86	M210A	Z	0	0	0	%100
87	M211A	X	-.298	-.298	0	%100
88	M211A	Z	-.516	-.516	0	%100
89	M212A	X	-.298	-.298	0	%100
90	M212A	Z	-.516	-.516	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,%]
91	MP1A	X	-.331	-.331	0	%100
92	MP1A	Z	-.573	-.573	0	%100
93	MP2A	X	-.331	-.331	0	%100
94	MP2A	Z	-.573	-.573	0	%100
95	MP3A	X	-.331	-.331	0	%100
96	MP3A	Z	-.573	-.573	0	%100
97	MP4A	X	-.331	-.331	0	%100
98	MP4A	Z	-.573	-.573	0	%100
99	MP1C	X	-.331	-.331	0	%100
100	MP1C	Z	-.573	-.573	0	%100
101	MP2C	X	-.331	-.331	0	%100
102	MP2C	Z	-.573	-.573	0	%100
103	MP3C	X	-.331	-.331	0	%100
104	MP3C	Z	-.573	-.573	0	%100
105	MP4C	X	-.331	-.331	0	%100
106	MP4C	Z	-.573	-.573	0	%100
107	MP1B	X	-.331	-.331	0	%100
108	MP1B	Z	-.573	-.573	0	%100
109	MP2B	X	-.331	-.331	0	%100
110	MP2B	Z	-.573	-.573	0	%100
111	MP3B	X	-.331	-.331	0	%100
112	MP3B	Z	-.573	-.573	0	%100
113	MP4B	X	-.331	-.331	0	%100
114	MP4B	Z	-.573	-.573	0	%100
115	M125	X	-.27	-.27	0	%100
116	M125	Z	-.469	-.469	0	%100
117	M126	X	-.464	-.464	0	%100
118	M126	Z	-.804	-.804	0	%100
119	M127	X	-.241	-.241	0	%100
120	M127	Z	-.418	-.418	0	%100
121	M128	X	-.241	-.241	0	%100
122	M128	Z	-.418	-.418	0	%100

Member Distributed Loads (BLC 81 : BLC 39 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M51B	Y	-1.665	-4.226	0	.832
2	M51B	Y	-4.226	-6.901	.832	1.665
3	M51B	Y	-6.901	-8.189	1.665	2.497
4	M51B	Y	-8.189	-6.544	2.497	3.329
5	M51B	Y	-6.544	-3.463	3.329	4.162
6	M52B	Y	-3.469	-6.578	0	.832
7	M52B	Y	-6.578	-8.256	.832	1.665
8	M52B	Y	-8.256	-7.041	1.665	2.497
9	M52B	Y	-7.041	-4.429	2.497	3.329
10	M52B	Y	-4.429	-1.881	3.329	4.162
11	M156A	Y	-1.665	-4.226	0	.832
12	M156A	Y	-4.226	-6.901	.832	1.665
13	M156A	Y	-6.901	-8.189	1.665	2.497
14	M156A	Y	-8.189	-6.544	2.497	3.329
15	M156A	Y	-6.544	-3.463	3.329	4.162
16	M157A	Y	-3.469	-6.578	0	.832
17	M157A	Y	-6.578	-8.256	.832	1.665
18	M157A	Y	-8.256	-7.041	1.665	2.497
19	M157A	Y	-7.041	-4.429	2.497	3.329
20	M157A	Y	-4.429	-1.881	3.329	4.162
21	M180A	Y	-1.884	-4.426	0	.832

Member Distributed Loads (BLC 81 : BLC 39 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
22	M180A	Y	-4.426	-7.044	.832	1.665
23	M180A	Y	-7.044	-8.26	1.665	2.497
24	M180A	Y	-8.26	-6.573	2.497	3.329
25	M180A	Y	-6.573	-3.462	3.329	4.162
26	M181A	Y	-3.463	-6.545	0	.832
27	M181A	Y	-6.545	-8.189	.832	1.665
28	M181A	Y	-8.189	-6.902	1.665	2.497
29	M181A	Y	-6.902	-4.228	2.497	3.329
30	M181A	Y	-4.228	-1.661	3.329	4.162

Member Distributed Loads (BLC 82 : BLC 40 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M51B	Y	-3.262	-8.277	0	.832
2	M51B	Y	-8.277	-13.516	.832	1.665
3	M51B	Y	-13.516	-16.04	1.665	2.497
4	M51B	Y	-16.04	-12.817	2.497	3.329
5	M51B	Y	-12.817	-6.783	3.329	4.162
6	M52B	Y	-6.795	-12.883	0	.832
7	M52B	Y	-12.883	-16.17	.832	1.665
8	M52B	Y	-16.17	-13.792	1.665	2.497
9	M52B	Y	-13.792	-8.675	2.497	3.329
10	M52B	Y	-8.675	-3.684	3.329	4.162
11	M156A	Y	-3.262	-8.277	0	.832
12	M156A	Y	-8.277	-13.516	.832	1.665
13	M156A	Y	-13.516	-16.04	1.665	2.497
14	M156A	Y	-16.04	-12.817	2.497	3.329
15	M156A	Y	-12.817	-6.783	3.329	4.162
16	M157A	Y	-6.795	-12.883	0	.832
17	M157A	Y	-12.883	-16.17	.832	1.665
18	M157A	Y	-16.17	-13.792	1.665	2.497
19	M157A	Y	-13.792	-8.675	2.497	3.329
20	M157A	Y	-8.675	-3.684	3.329	4.162
21	M180A	Y	-3.691	-8.669	0	.832
22	M180A	Y	-8.669	-13.797	.832	1.665
23	M180A	Y	-13.797	-16.179	1.665	2.497
24	M180A	Y	-16.179	-12.875	2.497	3.329
25	M180A	Y	-12.875	-6.78	3.329	4.162
26	M181A	Y	-6.783	-12.819	0	.832
27	M181A	Y	-12.819	-16.039	.832	1.665
28	M181A	Y	-16.039	-13.518	1.665	2.497
29	M181A	Y	-13.518	-8.282	2.497	3.329
30	M181A	Y	-8.282	-3.254	3.329	4.162

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N87C	N87B	N7	N6	Y	Two Way	-.005
2	N250A	N252A	N228A	N227A	Y	Two Way	-.005
3	N279A	N281A	N257A	N256A	Y	Two Way	-.005

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N87C	N87B	N7	N6	Y	Two Way	-.01
2	N250A	N252A	N228A	N227A	Y	Two Way	-.01
3	N279A	N281A	N257A	N256A	Y	Two Way	-.01

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	988.859	10	744.501	7	6416.593	1	.69	7	1.299	4	.282	10
2		min	-1000.571	4	-659.78	1	-4051.644	7	-.498	1	-1.305	10	-.13	4
3	N225A	max	5589.228	9	787.848	3	1820.516	3	.305	8	1.447	12	.31	9
4		min	-3527.297	3	-616.98	9	-2997.14	9	-.311	26	-1.452	6	-.606	3
5	N254A	max	3354.936	11	730.397	11	2152.041	11	.234	6	1.277	8	.543	11
6		min	-5400.301	5	-651.99	5	-3347.227	5	-.814	36	-1.282	2	-.46	5
7	N188	max	31.672	10	2822.285	1	1129.51	7	0	51	0	51	0	51
8		min	-31.721	4	-839.773	7	-3731.469	1	0	1	0	1	0	1
9	N189	max	913.935	3	2774.502	9	1833.778	9	0	51	0	51	0	51
10		min	-3176.347	9	-784.128	3	-527.709	3	0	1	0	1	0	1
11	N190	max	3203.399	5	2797.948	5	1849.521	5	0	51	0	51	0	51
12		min	-946.574	11	-812.374	11	-546.469	11	0	1	0	1	0	1
13	Totals:	max	5578.596	10	6537.848	19	5719.6	1						
14		min	-5578.598	4	3144.392	1	-5719.602	7						

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [...	phi*Pnt [lb]	phi*Mn y...	phi*Mn z...	Cb	Eqn
1	M4	HSS4X4X4	.189	3.296	1	.054	3.296	y	11	124657.7...	139518	16.181	16.181	1....	H1-1b
2	M10	HSS4X4X4	.114	2.375	2	.049	.223	z	1	136263.03	139518	16.181	16.181	1....	H1-1b
3	M43	HSS4X4X4	.103	0	12	.044	2.152	z	1	136263.03	139518	16.181	16.181	1....	H1-1b
4	M46	PL1/2x6	.240	.516	1	.133	.516	y	10	66009.234	97200	1.012	12.15	1....	H1-1b
5	M51B	L2x2x3	.151	0	2	.009	4.162	y	18	9823.122	23392.8	.558	1.138	1....	H2-1
6	M52B	L2x2x3	.146	0	1	.010	4.162	y	21	9823.122	23392.8	.558	1.078	1....	H2-1
7	M76	PL3/8x6	.370	0	4	.184	0	y	1	70677.939	72900	.57	9.113	1....	H1-1b
8	M77	PL3/8x6	.270	.167	7	.183	0	y	14	71601.728	72900	.57	9.113	1....	H1-1b
9	M80	PL1/2x6	.072	.112	7	.192	0	y	12	96757.507	97200	1.012	12.15	1....	H1-1b
10	M84	PL3/8x6	.270	0	9	.189	0	y	7	70677.939	72900	.57	9.113	1....	H1-1b
11	M85	PL3/8x6	.299	.167	7	.158	0	y	13	71601.728	72900	.57	9.113	1....	H1-1b
12	M91	PL1/2x6	.083	.112	1	.168	0	y	2	96757.507	97200	1.012	12.15	1....	H1-1b
13	M150A	HSS4X4X4	.183	3.296	9	.063	3.35	y	47	124657.7...	139518	16.181	16.181	1....	H1-1b
14	M151A	HSS4X4X4	.111	2.375	10	.046	.223	z	9	136263.03	139518	16.181	16.181	1....	H1-1b
15	M152A	HSS4X4X4	.099	0	8	.042	2.152	z	9	136263.03	139518	16.181	16.181	1....	H1-1b
16	M153A	PL1/2x6	.228	.516	9	.145	.516	y	48	66009.234	97200	1.012	12.15	1....	H1-1b
17	M156A	L2x2x3	.147	0	10	.009	4.162	y	14	9823.122	23392.8	.558	1.138	1....	H2-1
18	M157A	L2x2x3	.142	4.162	8	.010	4.162	y	17	9823.122	23392.8	.558	1.126	1....	H2-1
19	M161A	PL3/8x6	.383	0	12	.177	0	y	9	70677.939	72900	.57	9.113	1....	H1-1b
20	M162A	PL3/8x6	.257	.167	3	.181	0	y	22	71601.728	72900	.57	9.113	1....	H1-1b
21	M164A	PL1/2x6	.069	.112	3	.189	0	y	8	96757.507	97200	1.012	12.15	1....	H1-1b
22	M166A	PL3/8x6	.278	0	6	.183	0	y	4	70677.939	72900	.57	9.113	1....	H1-1b
23	M167A	PL3/8x6	.283	.167	3	.155	0	y	21	71601.728	72900	.57	9.113	1....	H1-1b
24	M169A	PL1/2x6	.079	.112	9	.222	0	y	46	96757.507	97200	1.012	12.15	1....	H1-1b
25	M174A	HSS4X4X4	.187	3.296	5	.061	0	y	36	124657.7...	139518	16.181	16.181	1....	H1-1b
26	M175A	HSS4X4X4	.117	2.375	6	.048	.223	z	5	136263.03	139518	16.181	16.181	1....	H1-1b
27	M176A	HSS4X4X4	.100	0	4	.043	2.152	z	5	136263.03	139518	16.181	16.181	1....	H1-1b
28	M177A	PL1/2x6	.234	.516	5	.135	.516	y	2	66009.234	97200	1.012	12.15	1....	H1-1b
29	M180A	L2x2x3	.153	0	6	.009	4.162	y	22	9823.122	23392.8	.558	1.126	1....	H2-1
30	M181A	L2x2x3	.144	0	5	.010	0	y	24	9823.122	23392.8	.558	1.078	1....	H2-1
31	M185A	PL3/8x6	.357	0	8	.182	0	y	5	70677.939	72900	.57	9.113	1....	H1-1b
32	M186A	PL3/8x6	.269	.167	11	.205	0	y	30	71601.728	72900	.57	9.113	1....	H1-1b
33	M188A	PL1/2x6	.072	.112	11	.187	0	y	4	96757.507	97200	1.012	12.15	1....	H1-1b
34	M190A	PL3/8x6	.265	0	2	.191	0	y	12	70677.939	72900	.57	9.113	1....	H1-1b
35	M191A	PL3/8x6	.292	.167	11	.156	0	y	17	71601.728	72900	.57	9.113	1....	H1-1b
36	M193A	PL1/2x6	.081	.112	5	.171	0	y	6	96757.507	97200	1.012	12.15	1....	H1-1b
37	M198A	PIPE_3.0	.154	4.297	10	.111	11.719		6	28250.554	65205	5.749	5.749	3....	H1-1b

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [...	phi*Pnt [lb]	phi*Mn y...	phi*Mn z...	Cb	Eqn
38	M199A	PIPE_3.0	.160	4.297	6	.107	11.719		2	28250.554	65205	5.749	5.749	3....	H1-1b
39	M200A	PIPE_3.0	.156	4.297	2	.106	11.719		10	28250.554	65205	5.749	5.749	3....	H1-1b
40	M201A	PIPE_2.0	.511	8.333	7	.256	11.589		7	6295.422	32130	1.872	1.872	1....	H3-6
41	M202A	PIPE_2.0	.496	8.333	3	.252	11.589		3	6295.422	32130	1.872	1.872	1....	H3-6
42	M203A	PIPE_2.0	.480	8.333	11	.250	11.589		11	6295.422	32130	1.872	1.872	1....	H3-6
43	M210A	L2.5x2.5x4	.591	1.314	11	.089	.52	y	6	36444.04	38556	1.114	2.537	2....	H2-1
44	M211A	L2.5x2.5x4	.608	1.314	7	.086	0	y	2	36444.04	38556	1.114	2.537	2....	H2-1
45	M212A	L2.5x2.5x4	.595	1.314	3	.085	0	y	10	36444.04	38556	1.114	2.537	2....	H2-1
46	MP1A	PIPE_2.0X	.266	6	5	.159	2.5		7	19844.858	44100	2.531	2.531	2....	H1-1b
47	MP2A	PIPE_2.0X	.443	6	10	.150	2.5		6	19844.858	44100	2.531	2.531	1....	H1-1b
48	MP3A	PIPE_2.0X	.461	6	4	.133	6		2	19844.858	44100	2.531	2.531	2....	H1-1b
49	MP4A	PIPE_2.0X	.280	6	4	.153	2.5		6	19844.858	44100	2.531	2.531	2.2	H1-1b
50	MP1C	PIPE_2.0X	.275	6	6	.158	2.5		3	19844.858	44100	2.531	2.531	2....	H1-1b
51	MP2C	PIPE_2.0X	.460	6	6	.147	2.5		2	19844.858	44100	2.531	2.531	1....	H1-1b
52	MP3C	PIPE_2.0X	.480	6	12	.135	6		10	19844.858	44100	2.531	2.531	2....	H1-1b
53	MP4C	PIPE_2.0X	.290	6	12	.151	2.5		2	19844.858	44100	2.531	2.531	2....	H1-1b
54	MP1B	PIPE_2.0X	.269	6	2	.158	2.5		11	19844.858	44100	2.531	2.531	1....	H1-1b
55	MP2B	PIPE_2.0X	.447	6	2	.146	2.5		10	19844.858	44100	2.531	2.531	1....	H1-1b
56	MP3B	PIPE_2.0X	.469	6	8	.141	6		6	19844.858	44100	2.531	2.531	2....	H1-1b
57	MP4B	PIPE_2.0X	.287	6	8	.150	2.5		10	19844.858	44100	2.531	2.531	2....	H1-1b
58	M125	PIPE_2.0X	.058	2.5	10	.010	2.5		10	39415.874	44100	2.531	2.531	2....	H1-1b
59	M126	LL2.5X2.5X3	.095	4.167	9	.002	0	z	12	48246.082	62208	3.621	2.777	1	H1-1b*
60	M127	LL2.5X2.5X3	.097	4.167	1	.002	0	z	10	48246.082	62208	3.621	2.777	1	H1-1b*
61	M128	LL2.5X2.5X3	.096	4.167	5	.002	4.167	z	8	48246.082	62208	3.621	2.777	1	H1-1b*

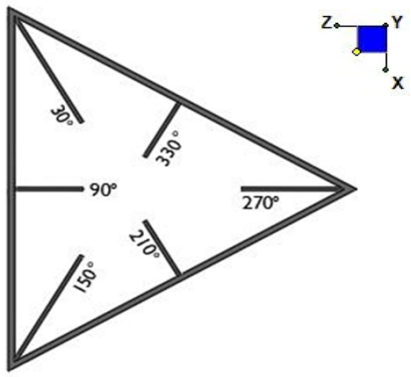
Client:	Verizon Wireless	Date:	5/27/2021
Site Name:	DEEP RIVER WEST CT		
Project No.	21777296A		
Title:	Mount Analysis	Page:	1

Version 3.1

I. Mount-to-Tower Connection Check

RISA Model Data

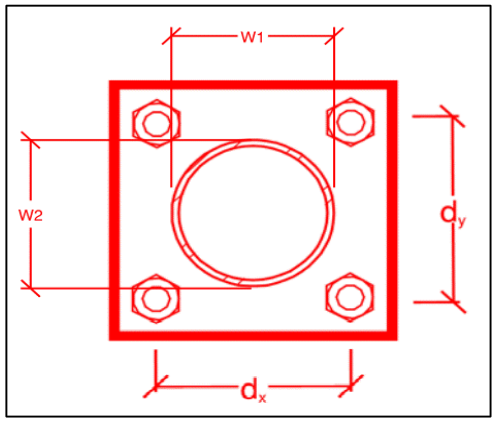
Nodes *(labeled per RISA)*	Orientation *(per graphic of typical platform)*
N225A	30
N3	270
N254A	150



TYPICAL PLATFORM

Tower Connection Bolt Checks

Any moment resistance?:	yes
Bolt Quantity per Reaction:	4
d_x (in) *(Delta X of typ. bolt config. sketch)* :	6
d_y (in) *(Delta Y of typ. bolt config. sketch)* :	6
Bolt Type:	A325N
Bolt Diameter (in):	0.625
Required Tensile Strength (kips):	8.6
Required Shear Strength (kips):	3.2
Tensile Strength / bolt (kips):	20.7
Shear Strength / bolt (kips):	12.4
Tensile Capacity Overall:	**10.4%***
Shear Capacity Overall:	**6.5%**



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

Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:	Rect
Plate Width (in):	8.25
Plate Height (in):	8.25
W1 (in):	4
W2 (in):	4
Fy (ksi, plate):	36
t_{Plate} (in):	0.75
Weld Size (1/16 in):	6
Phi*Rn (kip/in):	8.35
Required Weld Strength (kip/in):	0.91
Plate Bending Capacity:	**12.5%**
Weld Capacity:	**10.9%**

Max Plate Bending Strengths

Mu_{xx} *(kip-in)* :	3.2
Phi*Mn_{xx} *(kip-in)* :	37.6
Mu_{yy} *(kip-in)* :	1.5
Phi*Mn_{yy} *(kip-in)* :	37.6

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Passing Mount Analysis

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

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

Base Requirements:

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

Photo Requirements:

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

- Photos showing the safety climb wire rope above and below the mount prior to modification.
- Photos showing the climbing facility and safety climb if present.

Antenna & equipment placement and Geometry Confirmation:

- The contractor must certify that the antenna & equipment placement and geometry is in accordance with the antenna placement diagrams as included in this mount analysis.

☐ The contractor certifies that the photos support and the equipment on the mount is as depicted on the antenna placement diagrams as included in this mount analysis.

☐ The contractor notes that the equipment on the mount is not in accordance with the antenna placement diagrams and has accordingly marked up the diagrams or provided a diagram outlining the differences.

Certifying Individual: Company _____

Name _____

Signature _____

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

Issue:

Contractor to install safety climb cable guide (SitePro1, Part #: 120-203-317 or EOR approved equivalent) in locations where wire rope is rubbing against mount collar. Contractor to provide photos of safety climb cable guide installation. Contractor to confirm the mount being installed is the Site Pro 1 RMQP-496-HK and verify geometry as shown.

Response:

Schedule A – Photo & Document File Structure

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

Structure: 467805-VZW - DEEP RIVER WEST CT

Sector: **A**

Structure Type: Monopole

Mount Elev: 176.00

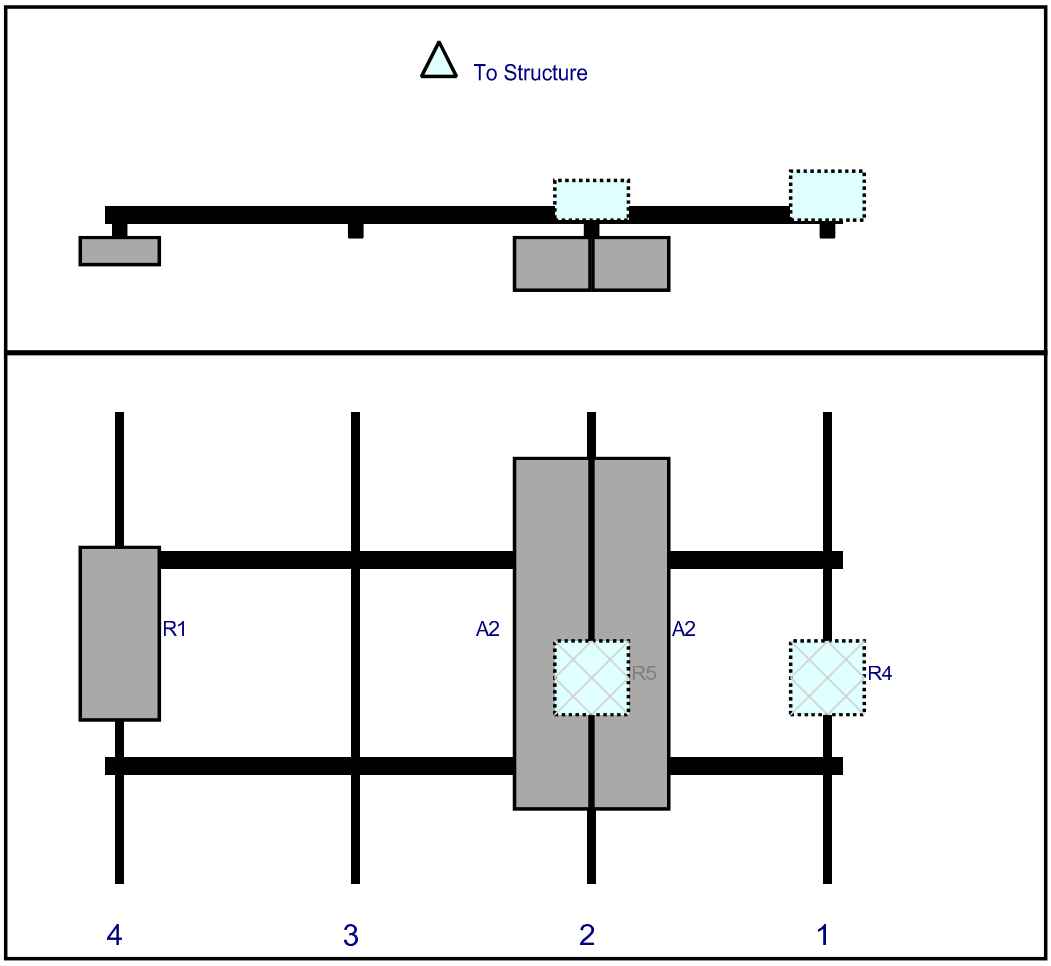
5/27/2021

Page: 1

MASER CONSULTING — CONNECTICUT —

Plan View

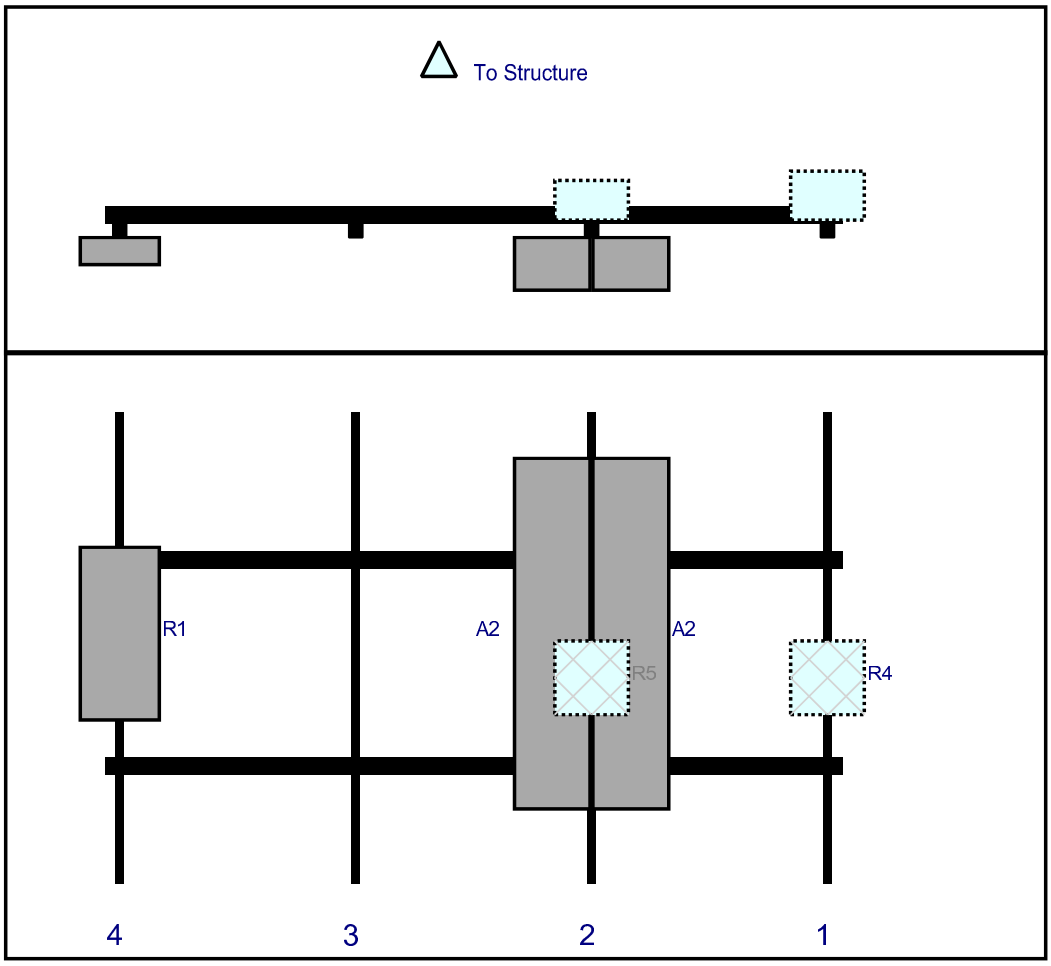
Front View
Looking at Structure



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
R4	B2/B66A RRH-BR049	15	15	147	1	a	Behind	54	0	Retained	
A2	MX06FRO660-03	71.3	15.4	99	2	a	Front	45	8	Added	
A2	MX06FRO660-03	71.3	15.4	99	2	b	Front	45	-8	Added	
R5	B5/B13 RRH-BR04C	15	15	99	2	a	Behind	54	0	Retained	
R1	MT6407-77A	35.1	16.1	3	4	a	Front	45	0	Added	

Plan View

Front View
Looking at Structure

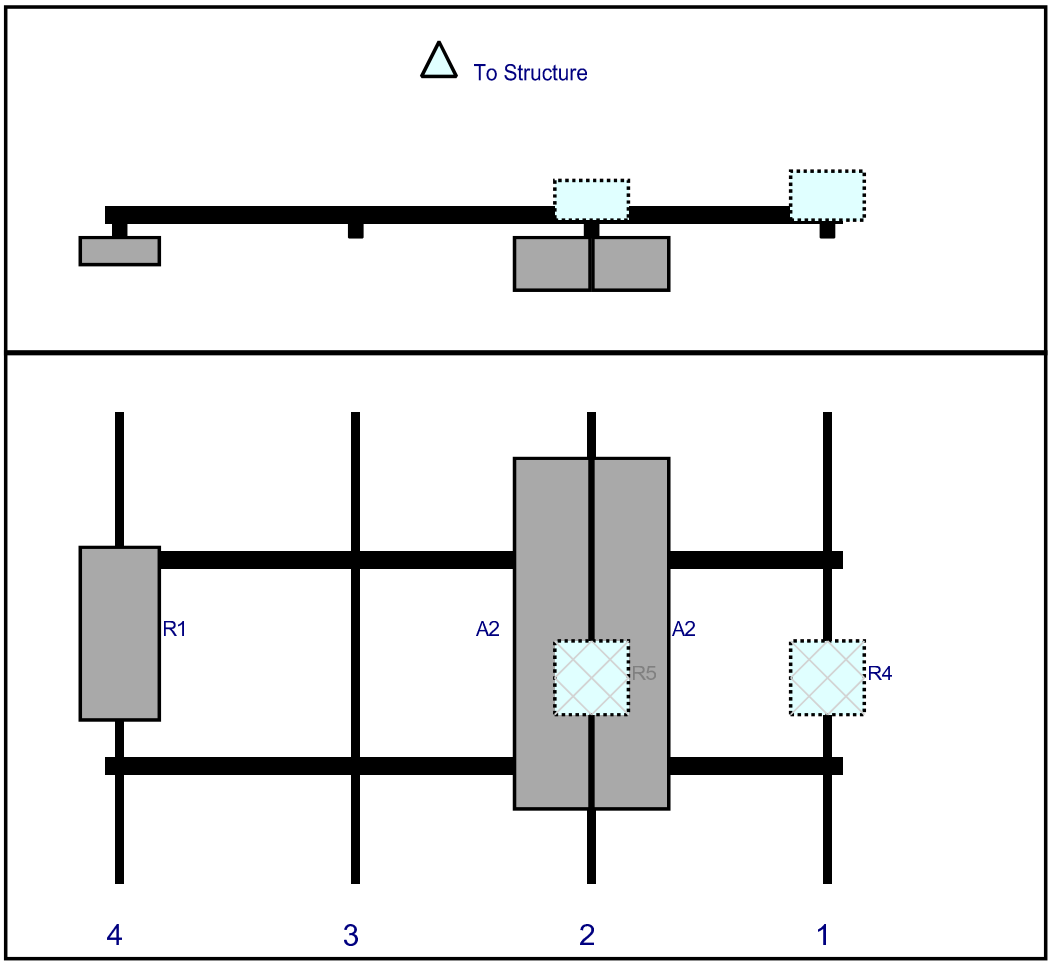


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R4	B2/B66A RRH-BR049	15	15	147	1	a	Behind	54	0	Retained	
A2	MX06FRO660-03	71.3	15.4	99	2	a	Front	45	8	Added	
A2	MX06FRO660-03	71.3	15.4	99	2	b	Front	45	-8	Added	
R5	B5/B13 RRH-BR04C	15	15	99	2	a	Behind	54	0	Retained	
R1	MT6407-77A	35.1	16.1	3	4	a	Front	45	0	Added	

MASER CONSULTING — CONNECTICUT —

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
R4	B2/B66A RRH-BR049	15	15	147	1	a	Behind	54	0	Retained	
A2	MX06FRO660-03	71.3	15.4	99	2	a	Front	45	8	Added	
A2	MX06FRO660-03	71.3	15.4	99	2	b	Front	45	-8	Added	
R5	B5/B13 RRH-BR04C	15	15	99	2	a	Behind	54	0	Retained	
R1	MT6407-77A	35.1	16.1	3	4	a	Front	45	0	Added	

Maser Consulting Connecticut

Subject	TIA-222-H Usage	
Site Information	Site ID:	467805-VZW / DEEP RIVER WEST CT
	Site Name:	DEEP RIVER WEST CT
	Carrier Name:	Verizon Wireless
	Address:	220 Winthrop Rd Deep River, Connecticut 06417 Middlesex County
	Latitude:	41.365772°
	Longitude:	-72.475314°
Structure Information	Tower Type:	180-Ft Monopole
	Mount Type:	12.67-Ft Platform

To Whom It May Concern,

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

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

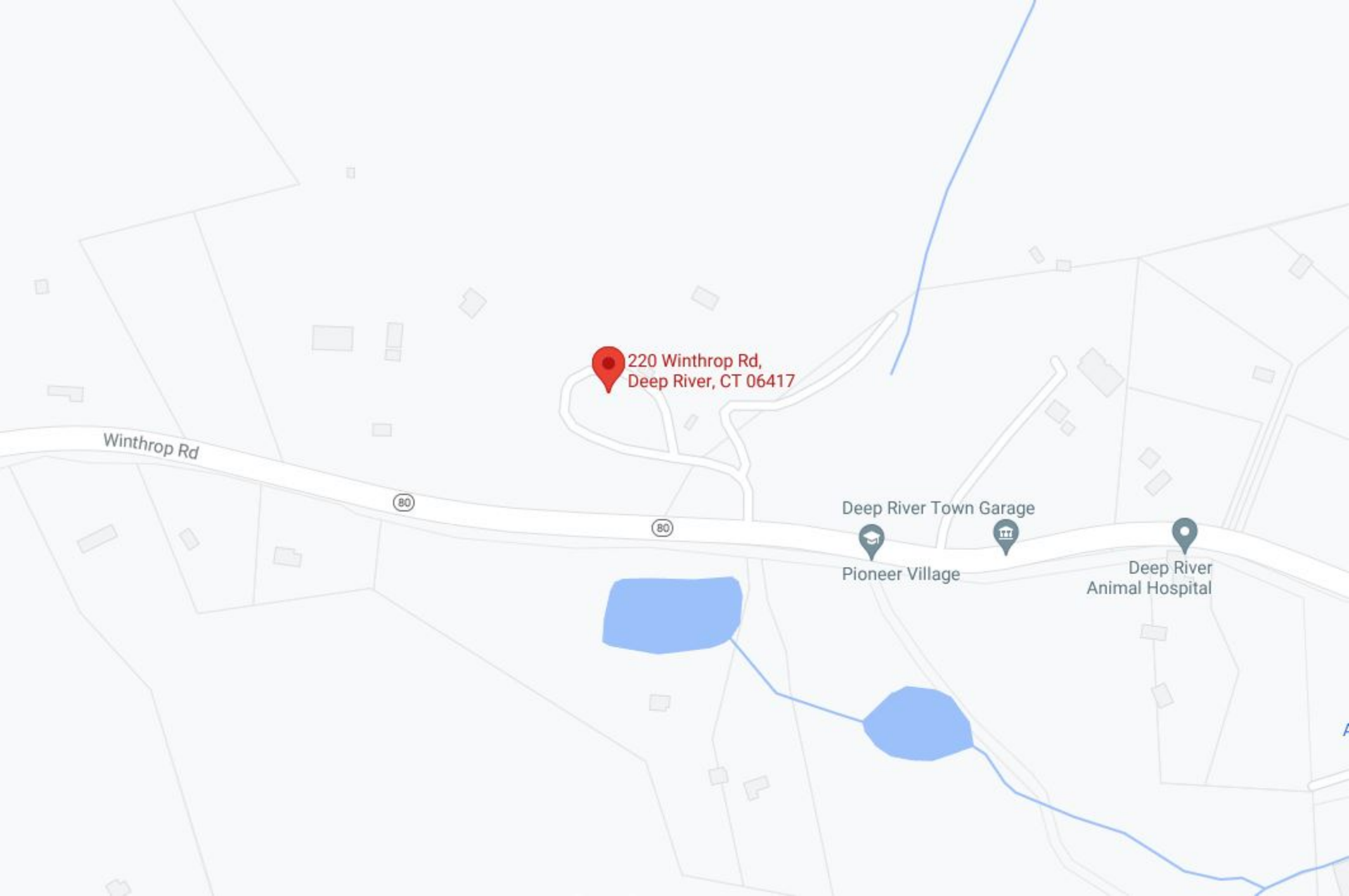
As with all ANSI standards and engineering best practice is to apply the most current revision of the standard. This ensures the engineer is applying all updates. As an example, the TIA-222-H Standard includes updates to bring it in line with the latest AISC and ACI standards and it also incorporates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

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

Sincerely,

Taqi Khawaja, PE
Technical Manager

ATTACHMENT 5


220 Winthrop Rd,
Deep River, CT 06417
Winthrop Rd
80
80
Deep River Town Garage
Pioneer Village
Deep River
Animal Hospital

DEEP RIVER,CT

220 WINTHROP RD

Location
220 WINTHROP RD
Mblu
33/ / 1A/ /
Acct#
00047000
Owner
TOWN OF DEEP RIVER
Assessment
$229,250
Appraisal
$327,500
PID
546
Building Count
1

Current Value

Appraisal

Valuation Year	Improvements	Land	Total
2020	$180,300	$147,200	$327,500

Assessment

Valuation Year	Improvements	Land	Total

2020	$126,210	$103,040	$229,250

Parcel Addreses

Additional Addresses

No Additional Addresses available for this parcel

Owner of Record

Owner TOWN OF DEEP RIVER
Co-Owner
Address 174 MAIN ST
DEEP RIVER, CT 06417
Sale Price $0
Certificate
Book & Page 0093/0797
Sale Date 12/27/1977

Ownership History

Ownership History

Owner	Sale Price	Certificate	Book & Page	Sale Date
TOWN OF DEEP RIVER	$0		0093/0797	12/27/1977

Building Information
Building 1 : Section 1
Year Built: 1979
Living Area: 247

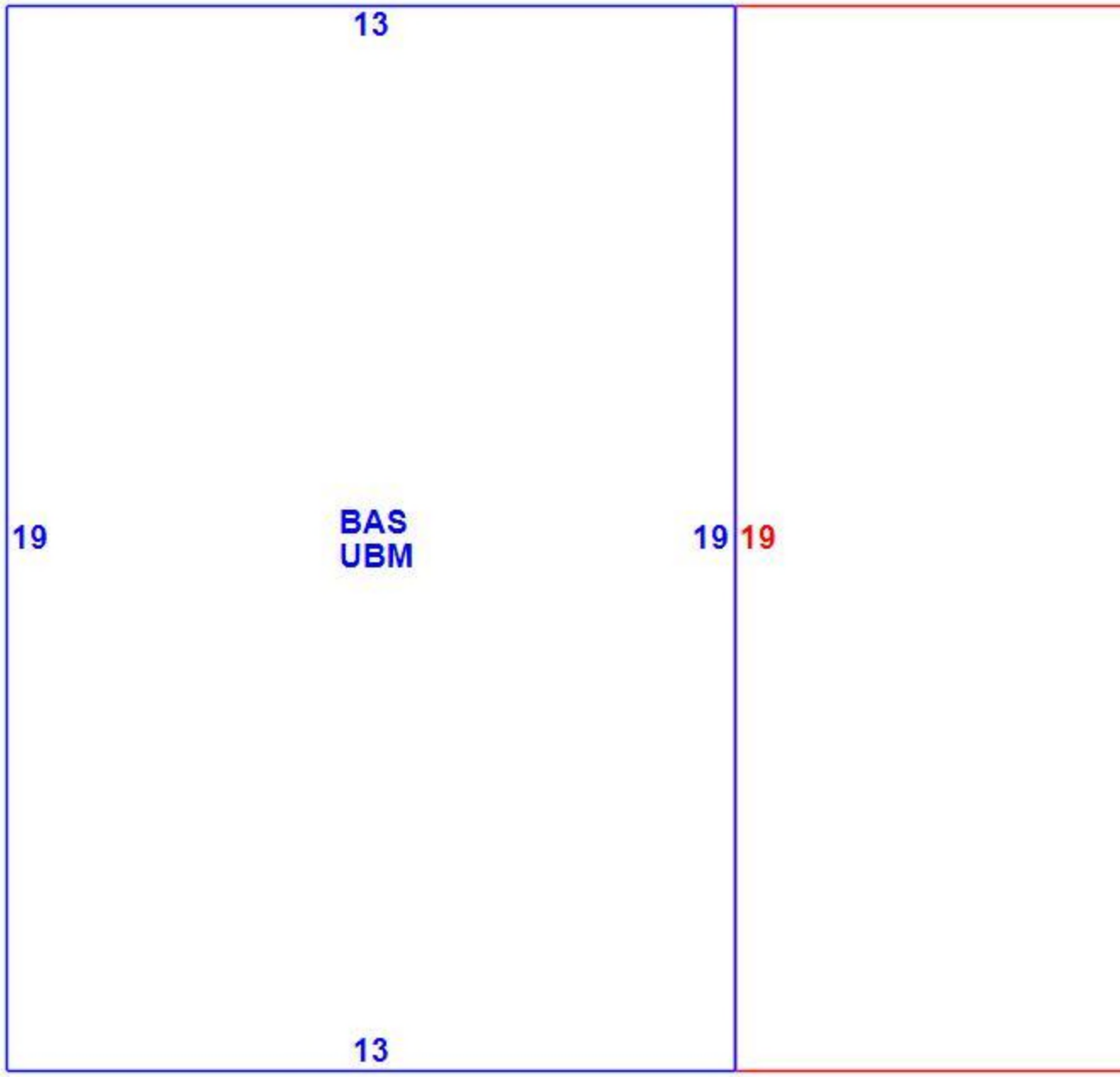
Building Attributes

Field	Description
Style:	Commercial
Model	Commercial
Grade	Average
Stories:	1
Occupancy	1.00

Exterior Wall 1	Aluminum Sidng
Exterior Wall 2	
Roof Structure	Gambrel
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Drywall/Sheet
Interior Wall 2	
Interior Floor 1	Inlaid Sht Gds
Interior Floor 2	
Heating Fuel	Electric
Heating Type	Electr Basebrd
AC Type	None
Struct Class	
Bldg Use	MUNICIPAL MDL-94
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	903I
Heat/AC	NONE
Frame Type	WOOD FRAME
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	LIGHT
Wall Height	9.00
% Comn Wall	0.00

Building Photo

Building Layout



Building Sub-Areas (sq ft)

Code	Description	Gross Area	Living Area
BAS	First Floor	247	247

CTH	Cath Ceiling	304	0
UBM	Basement, Unfinished	551	0
		1,102	247

Land

Land Use

Use Code 9030
Description MUNICIPAL MDL-94
Zone PRD
Neighborhood 0002

Land Line Valuation

Size (Acres) 9.94
Assessed Value $103,040
Appraised Value $147,200

Outbuildings

Outbuildings

Code	Description	Size
PAV1	PAVING-ASPHALT	30000.00 S.F.
PAV2	PAVING-CONC	1400.00 S.F.
SHD1	SHED FRAME	45.00 S.F.
SHD1	SHED FRAME	100.00 S.F.
FN3	FENCE-6' CHAIN	200.00 L.F.
MSC11	COMPACTOR	1.00 UNIT

closecloseclose

ATTACHMENT 6

UNITED STATES POSTAL SERVICE®

DEEP RIVER WEST

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	3	neopost 07/20/2021 US POSTAGE $002.89⁰ ZIP 06103 041L12203937
	Postmaster, per *(name of receiving employee)* V.P.		

USPS® Tracking Number / Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Angus L. McDonald, Jr., First Selectman Town of Deep River 174 Main Street Deep River, CT 06417				
2.	Mike D'Amato, Zoning Enforcement Officer Town of Deep River 174 Main Street Deep River, CT 06417				
3.	John Guszkowski, Zoning Enforcement Officer Town of Deep River 174 Main Street Deep River, CT 06417				
4.					
5.					
6.					

OLD STATE HOUSE STATION 06103 JUL 20 2021 USPS

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See Reverse for Instructions