Robinson+Cole

KENNETH C. BALDWIN

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Also admitted in Massachusetts
and New York

October 22, 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**
22 Welsh Road, Hartland, Connecticut

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") currently maintains an existing wireless telecommunications facility at the above-referenced property address (the "Property"). The facility consists of antennas and remote radio heads attached to a tower and associated equipment on the ground adjacent to the tower. The tower was approved by the Town of Hartland ("Town") in December of 2005. Cellco's use of the tower was approved by the Siting Council ("Council") in March of 2008 (TS-VER-065-080201). A copy of the Town's approval and the Council's TS-VER-065-080201 approval are included in Attachment 1.

Cellco now intends to modify its facility by installing three (3) new Samsung MT6407-77A antennas on Cellco's existing antenna mounts. 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 Hartland's Chief Elected Official and Land Use Officer. Please note, the Town of Hartland 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. Cellco's replacement antennas will be installed on Cellco's existing antenna mounts.

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

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

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

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

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

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

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

Sincerely,

Kenneth C. Baldwin

Enclosures
Copy to:
Magi Winslow, Hartland First Selectman
Scott Eisenlohr, Zoning Enforcement Officer
Karla Hanna

ATTACHMENT 1

HARTLAND PLANNING & ZONING COMMISSION
LEGAL NOTICE OF DECISIONS

Notice is hereby given that at their Regular Meeting of December 19, 2005, the Planning & Zoning Commission took the following action:

Applicant:	Town of Hartland
Location:	Center Hill Road
Proposal:	Cell Tower
DECISION:	APPROVED with conditions

Applicant:	Town of Hartland
Location:	Welch Road
Proposal:	Cell Tower
DECISION:	APPROVED with conditions

Dated in Hartland this 19th day of December, 2005
Warren Haag, Chairman

NOTICE TO REGISTER CITIZEN:
Please publish under Legal Notices. **PLEASE ADDRESS ALL INQUIRIES TO THE PLANNING & ZONING OFFICE @ 653-6800.**

cc Town Clerk, file, book

HARTLAND (860) 653-9710 GRANBY (860) 653-8945 FAX (860) 653-4769	TOWN OF HARTLAND PERMIT APPLICATION	22 SOUTH ROAD EAST HARTLAND, CT 06027

PROPERTY ADDRESS Welsh Road

EST. COST OF JOB 105,000 COST OF PERMIT 1050.00 CHECK# 1010 RCPT# 1595107

BLANKET ☐ (includes mechanicals) NON BLANKET ☐ (does not include mechanicals) PLEASE CHECK ONE

TYPE OF PERMIT: BUILDING ☑ HEATING ☐ PLUMBING ☐ ELECTRICAL ☐ OTHER ☐

DESCRIPTION OF WORK: Install tower (communications)

NEW HOME ☐ ADDITION ☐ ROOF ☐ SIDING ☐ POOL ☐ DECK ☐ SHED ☐ OTHER ☒

RECEIVED
APR 13 2006
GRANBY BLDG. DEPT.

BUILDING OFFICIAL COMMENTS:

OWNER(S) Town of Hartland	CONTRACTOR Roadrunner Inc
ADDRESS 22 South Rd	ADDRESS 1050 Buckley Hwy
TOWN E. Hartland ST Ct ZIP 06027	TOWN Union ST Ct ZIP 06076
HOME PHONE # WORK PHONE # 653-6800	LICENSE # 702306 WORK PHONE # 860 614-3060

AFFIDAVIT AND AGREEMENT

I HEREBY CERTIFY THAT I AM THE OWNER OF THE PROPERTY WHICH IS THE SUBJECT OF THIS APPLICATION OR THE AUTHORIZED AGENT OF THE PROPERTY OWNER; I AGREE TO CALL AT LEAST 24 HRS. IN ADVANCE FOR EACH INSPECTION INDICATED ON THE PERMIT; I AGREE TO UNCOVER AND EXPOSE ANY WORK WHICH IS COVERED OR CONCEALED WITHOUT INSPECTOR'S APPROVAL; I UNDERSTAND THAT WHEN A PERMIT IS ISSUED IT GRANTS NO RIGHT TO VIOLATE ANY CODE, ORDINANCE OR STATUTE, REGARDLESS OF WHAT MAY BE SHOWN OR OMITTED ON THE APPROVED PLANS AND SPECIFICATIONS AND REGARDLESS OF ANY AGREEMENT WITH ANY OFFICIAL.

I HAVE READ AND AGREE TO ALL THE ABOVE

SIGNATURE: Wayne [signature] DATE: 4-13-06

TOWN OF HARTLAND BUILDING PERMIT

DATE ISSUED 4/17/06 BUILDING PERMIT # B03-89

DATE CLOSED

[signature]
BUILDING OFFICIAL SIGNATURE

**** OTHER APPROVALS OR PERMITS REQUIRED ****

FIRE MARSHAL ☐ FVHD ☐ WETLANDS ☐ DRIVEWAY ☐ P&Z ☐ ZBA ☐ ZONING ☐ TAX ☐
WATER ☐ SEWER ☐

REQUIRED INSPECTIONS

- ☑ FOOTING (FORMS IN PLACE BEFORE BACKFILL)
- ☐ DAMPPROOF/DRAINS
- ☑ INGROUND MECHANICALS
- ☐ FIREPLACE/THROAT
- ☐ CERTIFICATE OF OCCUPANCY
- ☐ ROUGH FRAME/MECHANICALS
- ☐ INSULATION
- ☐ DRIVEWAY
- ☑ FINAL INSPECTION

**** THIS PERMIT IS NOT VALID UNLESS PERTINENT INFORMATION IS ATTACHED ****

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
Internet: ct.gov/csc

Daniel F. Caruso
Chairman

March 17, 2008

Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103-3597

RE: **TS-VER-065-080201** – Cellco Partnership d/b/a Verizon Wireless request for an order to approve tower sharing at an existing telecommunications facility located at 22 Welsh Road, East Hartland, Connecticut.

Dear Attorney Baldwin:

At a public meeting held February 28, 2008, 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. This facility has also 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.

This decision is under the exclusive jurisdiction of the Council. Any additional change to this facility may require an explicit request to this agency pursuant to General Statutes § 16-50aa or notice pursuant to Regulations of Connecticut State Agencies Section 16-50j-73, as applicable. Such request or notice shall include 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. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

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

The proposed shared use is to be implemented as specified in your letter dated February 1, 2008, including the placement of all necessary equipment and shelters within the tower compound.

Thank you for your attention and cooperation.

Very truly yours,

Daniel F. Caruso
Chairman

DFC/MP

c: Honorable Wade E. Cole, First Selectman, Town of Hartland
Warren K. Haag, Planning and Zoning Chairman, Town of Hartland

ATTACHMENT 2

verizon

WIRELESS COMMUNICATIONS FACILITY

EAST HARTLAND CT
22 WELSH ROAD
EAST HARTLAND, CT 06027

DRAWING INDEX

SITE DIRECTIONS

START: 20 ALEXANDER DRIVE
WALLINGFORD, CONNECTICUT 06492

END: 22 WELSH ROAD
EAST HARTLAND, CT 06027

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	0.2 MI
8.	SHARP LEFT TO MERGE ONTO I-91 N TOWARD HARTFORD	0.3 MI
9.	MERGE ONTO I-91 N	21.5 MI
10.	KEEP RIGHT TO STAY ON 91-N	10.0 MI
11.	USE THE RIGHT 2 LANES TO TAKE EXIST 40 FOR CT-20 TOWARD BRADLEY INTERNATIONAL AIRPORT	0.6 FT
12.	CONTINUE ONTO CT-20W	2.8 MI
13.	TAKE THE CT-20 W EXIT TOWARD E GRANBY/GRANBY	0.7 MI
14.	CONTINUE ONTO CT-20 W	5.5 MI
15.	CONTINUE STRAIGHT ONTO CT-189 N/N GRANBY RD	3.5 MI
17.	TURN LEFT ONTO STATE HIGHWAY 539/MOUNTAIN ROAD	3.1 MI
18.	TURN RIGHT ONTO WELSH ROAD	0.1 MI
19.	END AT 22 WELSH ROAD	

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

SITE INFORMATION

VZ SITE NAME: EAST HARTLAND CT
VZ PROJ FUZE I.D.: 16272387
VZ LOCATION CODE: 467801
VZ PROJECT CODE: 20212234294
LOCATION: 22 WELSH ROAD
EAST HARTLAND, CT 06027

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

PARCEL ID: 17-16-048

ZONING DISTRICT: RA-2 (SINGLE FAMILY RESIDENCE - 2 ACRES)

LATITUDE: 41° 59' 51.0792" N (41.997522° N)

LONGITUDE: 72° 53' 15.8388" W (72.887733° W)

SITE COORDINATES AND GROUND ELEVATION OBTAINED FROM GOOGLE EARTH.

GROUND ELEVATION: 1080'± AMSL

PROPERTY OWNER: TOWN OF HARTLAND
SOUTH ROAD
EAST HARTLAND, CT 06027

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 #: 10044578

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	06/14/21	FOR REVIEW: JRM
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3		
4		
5		
6		

STATE OF CONNECTICUT
MICHAEL TRODDEN
33315
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 HARTLAND
ADDRESS: SOUTH ROAD EAST HARTLAND, CT 06027

EAST HARTLAND CT

SITE ADDRESS: 22 WELSH ROAD EAST HARTLAND, CT 06027

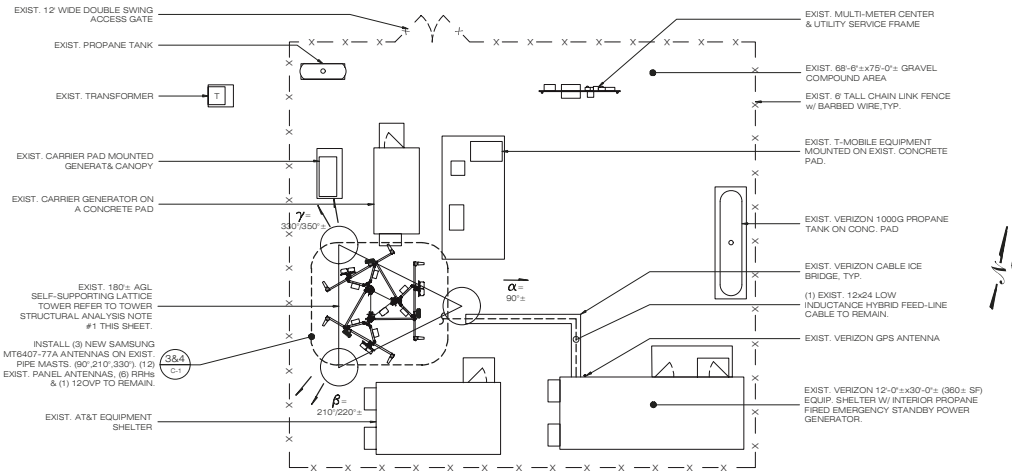
APT FILING NUMBER: CT141_12220

DRAWN BY: DRA
DATE: 06/14/21 CHECKED BY: JRM

VZ PROJECT CODE: 20212234294
VZ LOCATION CODE: 467801
VZ FUZE ID: 16272387

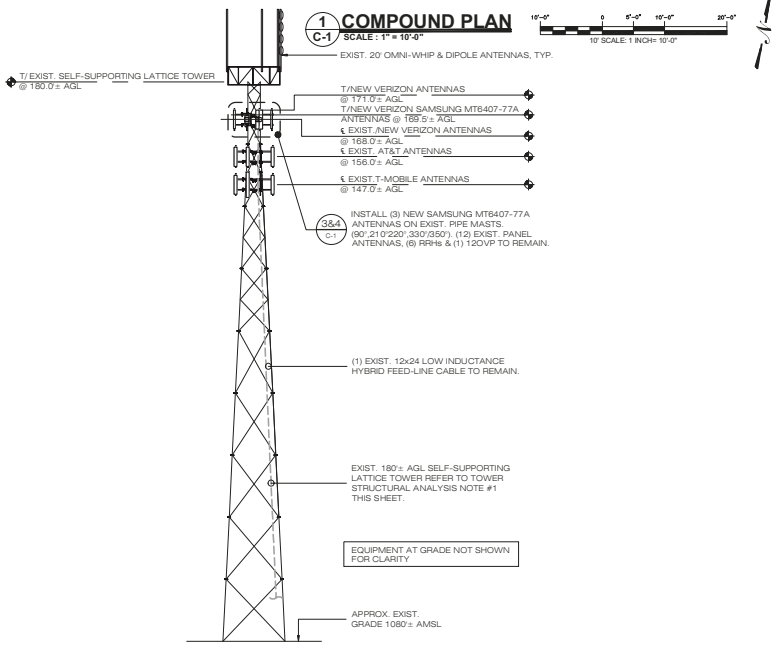
SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
T-1



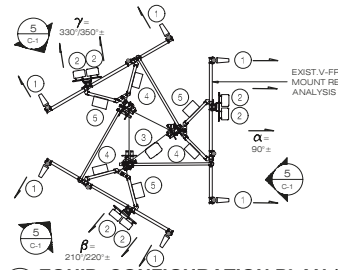
1 COMPOUND PLAN
C-1 SCALE : 1" = 10'-0"

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

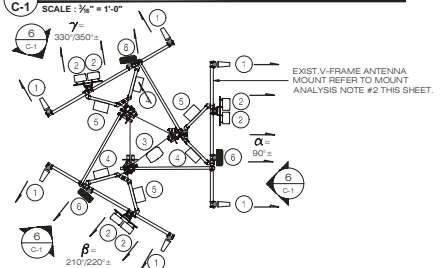


2 TOWER ELEVATION
C-1 SCALE : 1" = 20'-0"

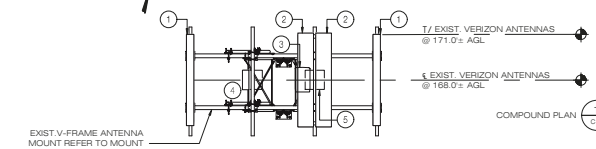
20' SCALE: 1 INCH= 20'-0"



3 EQUIP. CONFIGURATION PLAN (EXIST.)
C-1 SCALE : 3/32" = 1'-0"



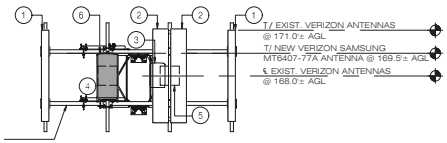
4 EQUIP. CONFIGURATION PLAN (NEW)
C-1 SCALE : 3/32" = 1'-0"



EXISTING ELEVATION (FRONT)

EXISTING AZIMUTHS
ALPHA: 90°
BETA: 210°/220°
GAMMA: 330°/350°

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



NEW ELEVATION (FRONT)

NEW AZIMUTHS
ALPHA: 90°
BETA: 210°/220°
GAMMA: 330°/350°

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

LOCATION PLAN
SCALE: 1" = 200'

NOTES:

1. REFER TO TOWER STRUCTURAL ANALYSIS REPORT PREPARED BY POWER OF DESIGN "POD" MARKED REV1 DATED 10/04/21 AVAILABLE UNDER SEPARATE COVER.
2. REFER TO ANTENNA MOUNT ANALYSIS REPORT & PMI REQUIREMENTS PREPARED BY MASER CONSULTING, CONNECTICUT, PROJECT #21777230A, DATED 05/03/21 AVAILABLE UNDER SEPARATE COVER.
3. BASE MAPPING FROM FIELD MEASUREMENTS TAKEN BY ALL-POINTS TECH. CORP., P.C. ON 03/30/21.
4. PROJECT SCOPE INCLUDES THE FOLLOWING:
   - INSTALLATION OF (3) NEW SAMSUNG MT4607-77A ANTENNAS ON EXIST. PIPE MASTS.
4. ALL EXPOSED STEEL AND HARDWARE TO BE HOT DIP GALV. (HDG). PAINT TO MATCH EXIST. (WHERE APPLICABLE)
5. CAP & WEATHERPROOF ALL UN-USED CABLE ENTRY PORTS (WHERE APPLICABLE).
6. MOUNT & GROUND ALL NEW EQUIPMENT IN ACCORDANCE WITH NEC (NFPA-70), NESC AND MANUFACTURERS SPECIFICATION.
7. SECURE ALL NEW ANTENNA CABLES PER MANUFACTURER RECOMMENDATIONS.
8. BOND NEW ANTENNA MOUNTING PIPES TO ANTENNA SECTOR GROUND BAR w/ # 2 AWG, BCW, (WHERE APPLICABLE).
9. 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.
10. ANTENNA CONFIGURATIONS SHOWN HEREIN ARE FRONT ELEVATIONS.
11. ANTENNA SPACING DIMENSIONS ARE TO THE CENTER OF THE EXIST. ANTENNA AND PROP. ANTENNA FACE.
12. REFER TO THE FINAL RFDS PROVIDED BY VERIZON FOR THE LATEST INFORMATION REGARDING EQUIPMENT MODELS, REQUIRED CABLING & DOWN-TILT INFORMATION.
13. APPLY 3M FILM OVER ALL EXPOSED MMWAVE ANTENNAS COLOR TO MATCH EXIST. STRUCTURE (WHERE APPLICABLE) COORDINATE WITH VERIZON CONSTRUCTION MANAGER AND LL.
14. 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. EXIST. ANTENNA (TO REMAIN) MODEL: ANTEL LPA-80080-6CF
2. EXIST. ANTENNA (TO REMAIN) MODEL: COMMSCOPE NHH-65B-R2B
3. EXIST 12OVP (TO REMAIN) MODEL: RAYCAP RVZDC-6627-PF-48 (MOUNTED TO TOWER FACE)
4. EXIST. DUAL BAND RRH (TO REMAIN) MODEL: SAMSUNG B13/B5 RRH-BR04C (RFV01U-D2A)
5. EXIST. DUAL BAND RRH (TO REMAIN) MODEL: SAMSUNG B66/B2A RRH-BR049 (RFV01U-D1A)
6. NEW ANTENNA MODEL: SAMSUNG MT6407-77A

Cellco Partnership d/b/a
verizon
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STATE OF CONNECTICUT MICHAEL TRODDEN 33313 LICENSED PROFESSIONAL ENGINEER

DESIGN PROFESSIONALS OF RECORD

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DATE: 06/14/21 CHECKED BY: JRM

VZ PROJECT CODE: 20212234294
VZ LOCATION CODE: 467801
VZ FUZE ID: 16272387

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

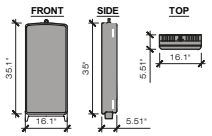
SHEET NUMBER:
C-1

EQUIPMENT DATA

EQUIPMENT SPECIFICATIONS

SECTOR	ANTENNA MAKE/MODEL	QTY	AZIMUTH	EQUIPMENT STATUS	HEIGHT (IN)	WIDTH (IN)	DEPTH (IN)	WEIGHT (LBS)
ALPHA	850: ANTEL LPA-80080-6CF	1	90°	ETR	70.9	5.5	13.2	21.0(2)
	700/850/1900/2100: COMMSCOPE NHH-65B-R2B	1	90°	ETR	72.0	11.9	7.1	43.7(2)
	700/850/1900/2100: COMMSCOPE NHH-65B-R2B	1	90°	ETR	72.0	11.9	7.1	43.7(2)
	SAMSUNG MT6407-77A	1	90°	NEW	35.1(5)	16.1(5)	5.5(5)	87.1(2)(5)
	850: ANTEL LPA-80080-6CF	1	90°	ETR	70.9	5.5	13.2	21.0(2)
BETA	850: ANTEL LPA-80080-6CF	1	210°	ETR	70.9	5.5	13.2	21.0(2)
	700/850/1900/2100: COMMSCOPE NHH-65B-R2B	1	220°	ETR	72.0	11.9	7.1	43.7
	700/850/1900/2100: COMMSCOPE NHH-65B-R2B	1	220°	ETR	72.0	11.9	7.1	43.7(2)
	SAMSUNG MT6407-77A	1	220°	NEW	35.1(5)	16.1(5)	5.5(5)	87.1(2)(5)
	850: ANTEL LPA-80080-6CF	1	210°	ETR	70.9	5.5	13.2	21.0(2)
GAMMA	850: ANTEL LPA-80080-6CF	1	330°	ETR	70.9	5.5	13.2	21.0(2)
	700/850/1900/2100: COMMSCOPE NHH-65B-R2B	1	350°	ETR	72.0	11.9	7.1	43.7(2)
	700/850/1900/2100: COMMSCOPE NHH-65B-R2B	1	350°	ETR	72.0	11.9	7.1	43.7(2)
	SAMSUNG MT6407-77A	1	350°	NEW	35.1(5)	16.1(5)	5.5(5)	87.1(2)(5)
	850: ANTEL LPA-80080-6CF	1	330°	ETR	70.9	5.5	13.2	21.0(2)
	APPURTENANCE MAKE/MODEL							
	SAMSUNG B2/B66A RRH-BR049 (RFV01U-D1A)	3	-	ETR	14.9	14.9	10.04	97.5
	SAMSUNG B5/B13 RRH-BR04C (RFV01U-D2A)	3	-	ETR	14.9	14.9	8.14	82.0
	RAYCAP RVZDC-6627-PF-48	1	-	ETR	29.5	16.5	12.6	32.0

(1) 'ETR' DENOTES EXIST. TO REMAIN
(2) WEIGHT WITHOUT MOUNTING BRACKET.
(3) ANTENNA DATA BASED ON RFDS REV0 DATED 10/27/20
(4) EQUIPMENT CONFIGURATION AS VIEWED FROM BEHIND.
(5) NOT TO EXCEED



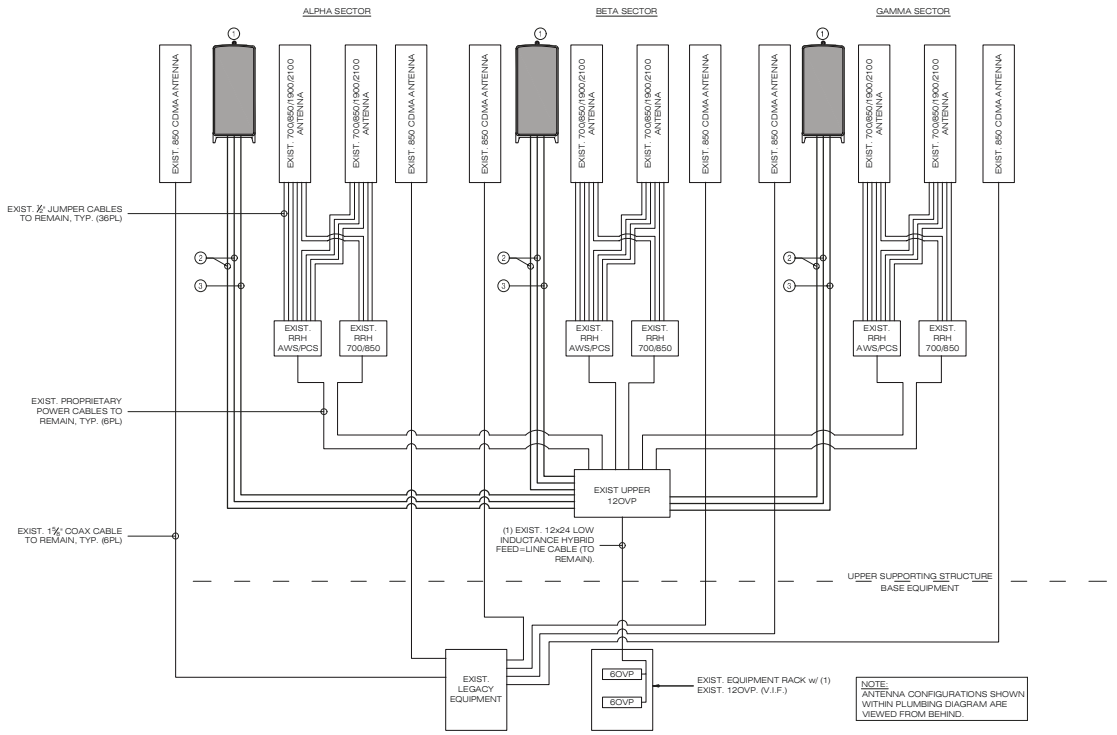
SAMSUNG MT6407-77A ANTENNA
HxWxD=35.1"x16.1"x5.51"
WT=87.1 Lbs
(NOT TO EXCEED)

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

BILL OF MATERIALS

		QUANTITY	LENGTH	COMMENTS
1	SAMSUNG MT6407-77A	3		MOUNTED TO EXIST. PIPE MAST
2	ANTENNA LINK CABLES	6	15 M	ROUTE FROM UPPER OVP TO ANTENNAS
3	ANTENNA POWER CABLES	3	15 M	PROPRIETARY POWER CABLE FROM UPPER OVP TO ANTENNAS

NOTES:
1. INFORMATION SHOWN HEREON IS FOR USE BY VERIZON EQUIPMENT OPERATIONS.
2. INFORMATION IS BASED ON RFDS REV0 DATED 10/27/20.
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.
7. 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 MAST REQUIRE REPLACEMENT TO SUPPORT THE NEW MOUNT BRACKETS.



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
567 VAUXHALL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
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CONSTRUCTION DOCUMENTS

NO	DATE	REVISION
0	06/14/21	FOR REVIEW: JRM
1	09/28/21	FOR FILING: JRM
2	10/13/21	FOR FILING: JRM
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 HARTLAND
ADDRESS: SOUTH ROAD EAST HARTLAND, CT 06027

EAST HARTLAND CT

SITE ADDRESS: 22 WELSH ROAD EAST HARTLAND, CT 06027

APT FILING NUMBER: CT141_12220

DRAWN BY: DRA
DATE: 06/14/21 CHECKED BY: JRM

VZ PROJECT CODE: 20212234294
VZ LOCATION CODE: 467801
VZ FUZE ID: 16272387

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	06/14/21	FOR REVIEW: JRM
1	09/28/21	FOR FILING: JRM
2	10/13/21	FOR FILING: JRM
3		
4		
5		
6		

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 HARTLAND
ADDRESS: SOUTH ROAD EAST HARTLAND, CT 06027

EAST HARTLAND CT

SITE ADDRESS: 22 WELSH ROAD EAST HARTLAND, CT 06027

APT FILING NUMBER: CT141_12220

DRAWN BY: DRA

DATE: 06/14/21 CHECKED BY: JRM

VZ PROJECT CODE: 20212234294

VZ LOCATION CODE: 467801

VZ FUZE ID: 16272387

SHEET TITLE:

NOTES& SPECIFICATIONS

SHEET NUMBER:

N-1

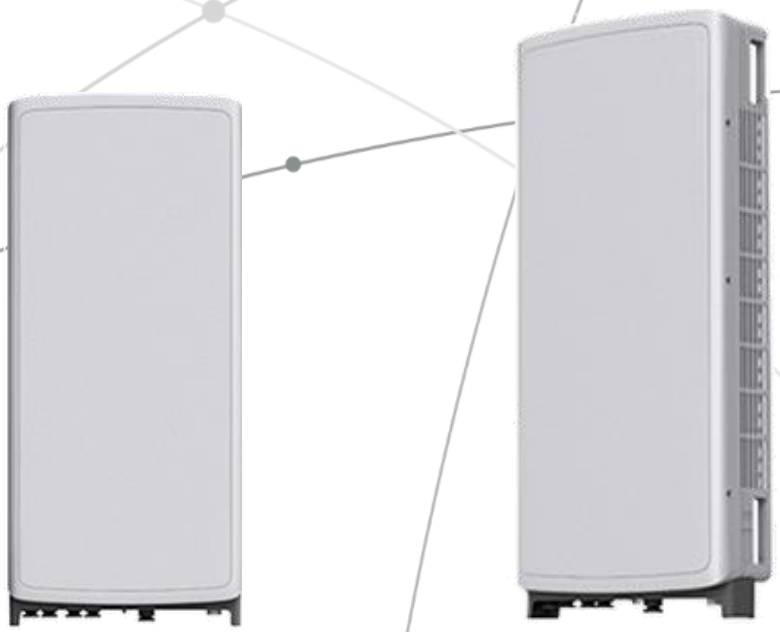
SAMSUNG

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

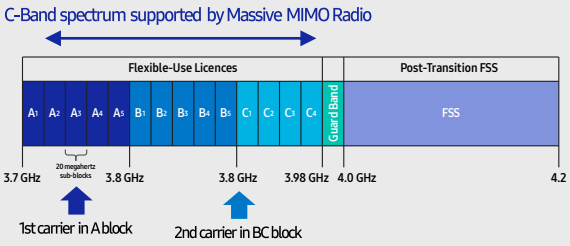


Points of Differentiation

Wide Bandwidth

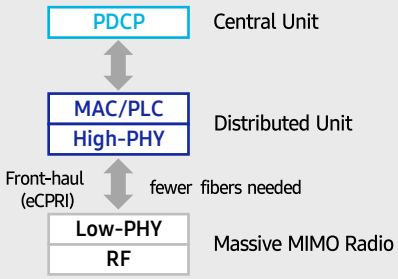
With capability to support up to 2 CC carrier configuration, Samsung C-Band massive MIMO Radio supports 200 MHz bandwidth in the C-Band spectrum.

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.

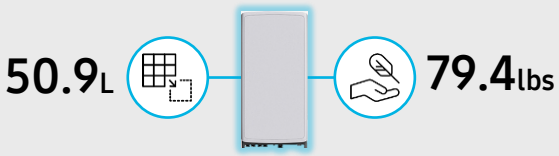
This helps operators reduce their CAPEX as they now need less products to cover the same area than before.

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: East Hartland (Hartland)								
Tower Height: Verizon @ 168ft								
CARRIER	**# OF CHAN.**	**WATTS ERP**	**HEIGHT**	**FREQ.**	**CALC. POWER DENS**	**MAX. PERMISS. EXP.**	**FRACTION MPE**	**Total**
*T-Mobile	2	2334	147	2100	0.0844	1.0000	0.84%	
*T-Mobile	1	19239	147	2500	0.3480	1.0000	3.48%	
*T-Mobile	1	19239	147	2500	0.3480	1.0000	3.48%	
*T-Mobile	2	592	147	600	0.0214	0.4000	0.54%	
*T-Mobile	1	1578	147	600	0.0285	0.4000	0.71%	
*T-Mobile	2	695	147	700	0.0251	0.4667	0.54%	
*T-Mobile	4	1052	147	1900	0.0761	1.0000	0.76%	
*T-Mobile	2	2105	147	1900	0.0762	1.0000	0.76%	
*Town of Hartland	2	85	190	154	0.0018	0.2000	0.09%	
*AT&T	2	649	155	880	0.0210	0.5867	0.36%	
*AT&T	2	1387	155	1900	0.0449	1.0000	0.45%	
*AT&T	1	324	155	880	0.0052	0.5867	0.09%	
*AT&T	4	832	155	1900	0.0539	1.0000	0.54%	
*AT&T	1	1313	155	734	0.0213	0.4893	0.43%	
VZW 700	**4**	**689**	**168**	**751**	**0.0035**	**0.5007**	**0.70%**	
VZW CDMA	**2**	**389**	**168**	**869**	**0.0010**	**0.5793**	**0.17%**	
VZW Cellular	**4**	**700**	**168**	**869**	**0.0036**	**0.5793**	**0.62%**	
VZW PCS	**4**	**1500**	**168**	**1980**	**0.0076**	**1.0000**	**0.76%**	
VZW AWS	**4**	**1672**	**168**	**2125**	**0.0085**	**1.0000**	**0.85%**	
VZW CBAND	**4**	**6531**	**168**	**3730**	**0.0333**	**1.0000**	**3.33%**	
								19.50%
* Source: Siting Council								

ATTACHMENT 4

October 4, 2021

Project	**Structural Analysis Report**
Carrier Information	**Verizon Wireless** **Site Name: East Hartland CT** **Site Number: 674885**
Commissioned By	**Constance Rybarczyk** **CRybarczyk@sbasite.com**
POD Information	**Project Number: 21-109348**
Site Data	**SBA Site Name: East Hartland** **SBA Site Number: CT35722-M** **180' Valmont Self Support Tower** **22 Welsh Road, East Hartland, Connecticut, Hartford Co, 06027** **Latitude: 41.997522 N; Longitude: 72.887733 W**

Dear Constance Rybarczyk,

The purpose of this analysis is to determine whether the existing tower design can support the existing appurtenance configuration. The analysis indicates that design of the tower and its foundation **are** adequate for supporting the proposed loading and will require modification.

Results	**Tower Capacity:**	**81.9%**	**Pass**
	Foundation Capacity	**48.1%**	**Pass**

Please do not hesitate to call with any comments or concerns.

Sincerely,

Jason Cheronis

Digitally signed by Jason Cheronis
Date: 2021.10.08 10:52:20 -04'00'

Jason Cheronis, PE
Connecticut PE #: PEN.0032793

Design Criteria

The existing structure and its foundations have been analyzed per the following requirements.

Governing	2018 Connecticut Building Code & TIA-222-G
Ultimate Wind Speed	120 MPH 3 Second Gust
Nominal Wind Speed	93 MPH 3 Second Gust
Ice Thickness	1"
Wind Speed with Ice	50 MPH 3 Second Gust
Structure Class	II
Exposure Category	B
Topographic Category	1

Tower Description

The following material grades were assumed based on existing design drawings:

Tower Materials

Structural Component	Material Strength
Bracing Members	ASTM A36 (36 KSI Yield Strength)
Legs	ASTM A572-50 (50 KSI Yield Strength)
Bolts	A325 (92 KSI Yield Strength)
Anchor Rods	A687 (105 KSI Yield Strength)

Referenced Documents

Document Type	Designation	Source
Tower & Foundation Drawings	Valmont File #: A-121935 Dated 4/12/2006	SBA
Previous Structural Analysis	PJF Project #: A42919-0009.003.8700 Dated: 1/24/2020	SBA
Geotechnical Report	DR Clarence Welti Dated: 9/22/2005	SBA
Application	SBA App #: 149582 v3	SBA
Mount Analysis and PMI Mount Requirements	Maser Project #: 10044578 Dated: 5/3/2021	SBA

Tower Loading

The following tables indicate the existing, leased, and proposed loading provided by UPRR for this analysis.

Existing Loading

Carrier	Mounting Level (ft)	Center Line (ft)	# of Units	Unit Manufacturer	Unit Model	# of Coax	Coax Size (in)	Note
Unknown	179	189	1		20’ 4 Bay Dipole	1 3	1-5/8 7/8	
			3		20’ Omni			
		179	1		Halo Mount			
Verizon	168	168	6	Antel	LPA-80080/6F	6 1 1	1-5/8 Hybrid 1/2	
			6	Commscope	NHH-65B-R2B			
			3	Commscope	BASMNT-SBS-1-2			
			3	Samsung	B2/B66A RRH-BR049			
			3	Samsung	B5/B13 RRH-BR04C			
			1	Raycap	RVZDC-6627-PF-48			
			3	SitePro	VFA12H-HD			
Unknown	156	156	3	KMW	AM-X-16-65-00T-RET	12 2 1	1-5/8 3/4 5/16	
			6	Powerwave	7770.00			
			3	Ericsson	RRUS-11			
			6	Powerwave	LGP2140X			
			1	Raycap	DC6-48-60-18-8F			
			3		T-Frame			
Unknown	147	148	3	RFS	APX16DWV-16DWVS	9 3	1-5/8 Hybrid	
			3	RFS	APXVAARR24-43-U-NA20			
		147	3	Ericsson	RRUS B71/B12 4449			
			3	RFS	Twin TMA			
			3		T-Frame			

Carrier Final Loading

Carrier	Mounting Level (ft)	Center Line (ft)	# of Units	Unit Manufacturer	Unit Model	# of Coax	Coax Size (in)	Note
Verizon	168	168	3	Samsung	MT6407-77A	6 1 1	1-5/8 Hybrid 1/2	
			6	Commscope	NHH-65B-R2B			
			6	Antel	LPA-80080/6CF			
			3	Commscope	BASMNT-SBS-1-2			
			3	Samsung	B2/B66A RRH-BR049			
			3	Samsung	B5/B13 RRH-BR04C			
			1	Raycap	RVZDC-6627-PF-48			
			3	SitePro	VFA12H-HD			

Results

Capacity Summary of Structural Components

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P lbs	ϕPallow lbs	% Capacity	Pass/ Fail
T1	180- 160	Leg	1 1/2	1	-35.99	52.13	69.0	Pass
T2	160- 140	Leg	Valmont 195554	58	-67.81	142.30	47.7	Pass
T3	140- 120	Leg	Valmont 195554	73	-107.65	142.30	75.6	Pass
T4	120- 100	Leg	Valmont 195555	88	-139.42	217.00	64.2	Pass
T5	100- 80	Leg	Valmont 195557	103-	167.54	300.48	55.8	Pass
T6	80- 60	Leg	Valmont 195557	118-	192.97	300.48	64.2	Pass
T7	60- 40	Leg	Valmont 195559	133-	217.60	399.66	54.4	Pass
T8	40- 20	Leg	Valmont 195559	148-	240.72	399.66	60.2	Pass
T9	20- 0	Leg	Valmont 195560	163-	262.62	511.74	51.3	Pass
T1	180- 160	Diagonal	3/4	15	-4.08	5.92	68.9	Pass
T2	160- 140	Diagonal	L2 1/2x2 1/2x3/16	65	-7.68	13.38	57.4 81.9 (b)	Pass
T3	140- 120	Diagonal	L2 1/2x2 1/2x3/16	80	-6.46	10.79	59.9 72.6 (b)	Pass
T4	120- 100	Diagonal	L2 1/2x2 1/2x3/16	95	-5.86	8.55	68.5	Pass
T5	100- 80	Diagonal	L3x3x3/16	110	-5.73	11.97	47.9 54.7 (b)	Pass
T6	80- 60	Diagonal	L3x3x3/16	125	-5.84	9.67	60.4	Pass
T7	60- 40	Diagonal	L3x3x5/16	140	-6.08	12.72	47.8	Pass
T8	40- 20	Diagonal	L3x3x5/16	155	-6.48	10.53	61.5	Pass
T9	20- 0	Diagonal	L3 1/2x3 1/2x5/16	170	-7.85	14.22	55.2	Pass
T1	180- 160	Top Girt	3/4	6	-0.17	3.31	5.0	Pass
T1	180- 160	Bottom Girt	3/4	9	-0.95	3.31	28.7	Pass
							Summary	
						Leg (T3)	75.6	Pass
						Diagonal (T2)	81.9	Pass
						Top Girt (T1)	5.0	Pass
						Bottom Girt (T1)	28.7	Pass
						Bolt Checks	81.9	Pass
						RATING =	**81.9**	**Pass**

Additional Capacities

Notes	Component	Elevation (ft)	% Capacity	Pass/Fail
1	Base Foundation	0	48.1	Pass
1	Anchor Rods	0	46.0	Pass

Notes:

1) See "Additional Calculations" for documents supporting % capacity.

Conclusions and Recommendations

The tower and its foundation were found to be adequate for the proposed loading and will not require modifications.

Please see Appendix A for the Antenna Mount Analysis Report and PMI Requirements. Also please note the mount analysis was completed by others and not part of this analysis.

Assumptions

This structural analysis is based on the theoretical capacity of the members and is not a condition assessment of the tower. It has been compiled from information supplied, and therefore, its results are based on and are as accurate as that supplied data. POD has made no independent determination of its accuracy. The following assumptions were made for this structural analysis.

1. Tower and structures were built in accordance with the manufacturer’s specifications.
2. The tower and structures have been maintained in accordance with the manufacturer’s specifications.
3. The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in the Existing/Leased Loading and Proposed Loading tables, and specified documents.
4. All mounts, if applicable, are considered adequate to support the loading. No actual analysis of the mount(s) is performed. This analysis is limited to analyzing the tower and platform only.
5. Member grade and mount sizes, weights, and manufacturers are best estimates determined by information provided and previous experience without the benefit of a site visit by POD.

If any of these assumptions are not valid or have been made in error, this analysis may be affected, and POD should be allowed to review any new information to determine its effect on the structural integrity of the tower.

Disclaimer of Warranties

Power of Design has not performed a site visit to the structure to verify the member sizes or antenna/coax loading unless noted otherwise. If the existing conditions are not as represented in this report, we should be contacted immediately to evaluate the significance of the discrepancy. This is not a condition assessment of the structure or foundation. This report does not replace a full structure inspection. The structure, foundations, and mounting systems are assumed to have been properly fabricated, erected, maintained, in good condition, twist free, and plumb.

The engineering services rendered by Power of Design in connection with this Structural Analysis are limited to a computer analysis of the structure and theoretical capacity of its main structural members. All structure components have been assumed to only resist dead loads when no other loads are applied. No allowance was made for any damaged, bent, missing, loose, or rusted members (above and below ground). No allowance was made for loose bolts or cracked welds.

Power of Design does not analyze the fabrication of the structure (including welding). It is not possible to have all the very detailed information needed to perform a thorough analysis of every structural sub-component and connection of an existing structure. Power of Design provides a limited scope of service in that we cannot verify the adequacy of every weld, plate connection detail, etc. The purpose of this report is to assess the feasibility of adding appurtenances usually accompanied by transmission lines to the structure.

It is the owner's responsibility to determine the amount of ice accumulation in excess of the code specified amount, if any, that should be considered in the structural analysis.

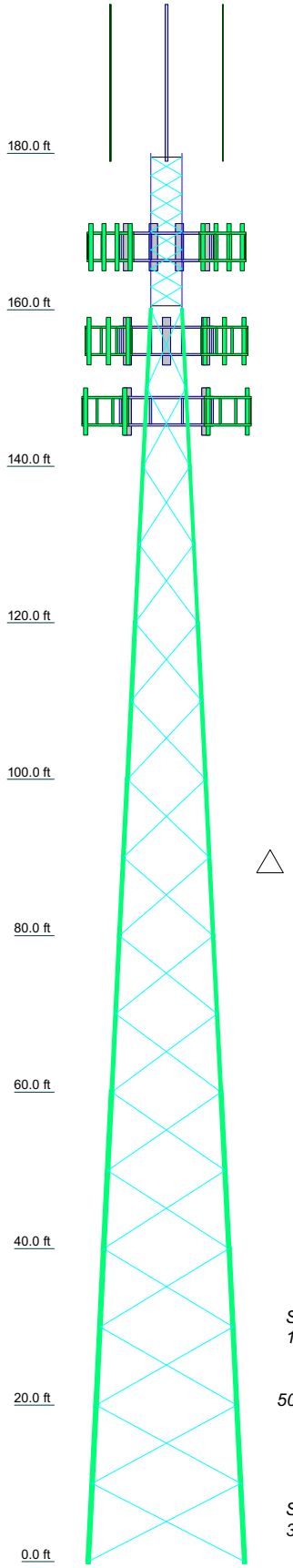
The attached sketches are a schematic representation of the analyzed structure. If any material is fabricated from these sketches, the contractor shall be responsible for field verifying the existing conditions, proper fit, and clearance in the field. Any mentions of structural modifications are reasonable estimates and should not be used as a precise construction document. Precise modification drawings are obtainable from Power of Design, but are beyond the scope of this report.

Miscellaneous items such as antenna mounts, etc., have not been designed or detailed as a part of our work. We recommend that material of adequate size and strength be purchased from a reputable tower manufacturer.

Power of Design makes no warranties, expressed and/or implied, in connection with this report and disclaims any liability arising from material, fabrication, and erection of this structure. Power of Design will not be responsible whatsoever, for or on account of, consequential or incidental damages sustained by any person, firm, or organization as a result of any data or conclusions contained in this report. The maximum liability of Power of Design pursuant to this report will be limited to the total fee received for preparation of this report.

tnxTower Output

Section	T1	T2	T3	T4	T5	T6	T7	T8	T9		
Legs	SR 1 1/2	Valmont 195554		Valmont 195555	Valmont 195557		Valmont 195559		Valmont 195560		
Leg Grade	A572-50										
Diagonals	SR 3/4	L2 1/2x2 1/2x3/16			L3x3x3/16		L3x3x5/16		L3 1/2x3 1/2x5/16		
Diagonal Grade	A572-50	A36									
Top Girts	SR 3/4	N.A.									
Bottom Girts	SR 3/4	N.A.									
Face Width (ft)	4	6		8	10	12	14	16	18	20	
# Panels @ (ft)	8 @ 2.375				16 @ 10						
Weight (K)	0.7	1.7	1.7	2.1	2.6	2.7	3.7	3.8	4.9	24.0	



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
PiRod 22' Halo (Candelabra) Mount	179	AM-X-CD-16-65-00T-RET w/ Mount Pipe	156
20'x4 Element Dipole	179	AM-X-CD-16-65-00T-RET w/ Mount Pipe	156
20' Omni (3" Diam)	179	(2) 7770.00	156
20' Omni (3" Diam)	179	(2) 7770.00	156
20' Omni (3" Diam)	179	(2) 7770.00	156
V-Frame Mounts (3)	168	(2) LGP2140X	156
MT6407-77A w/ Mount Pipe	168	(2) LGP2140X	156
MT6407-77A w/ Mount Pipe	168	(2) LGP2140X	156
MT6407-77A w/ Mount Pipe	168	RRUS-11	156
(2) NHH-65B-R2B w/ Mount Pipe	168	RRUS-11	156
(2) NHH-65B-R2B w/ Mount Pipe	168	RRUS-11	156
(2) NHH-65B-R2B w/ Mount Pipe	168	DC6-48-60-18-8F	156
(2) LPA-80080/6CF w/ Mount Pipe	168	T-Boom (3)	147
(2) LPA-80080/6CF w/ Mount Pipe	168	APX16DWV-16DWVS	147
(2) LPA-80080/6CF w/ Mount Pipe	168	APX16DWV-16DWVS	147
BSAMNT-SBS-1-2	168	APX16DWV-16DWVS	147
BSAMNT-SBS-1-2	168	APXVAARR24-43-U-NA20	147
BSAMNT-SBS-1-2	168	APXVAARR24-43-U-NA20	147
B2/B66A RRH-BR049	168	APXVAARR24-43-U-NA20	147
B2/B66A RRH-BR049	168	RFS twin TMA	147
B2/B66A RRH-BR049	168	RFS twin TMA	147
B5/B13 RRH-BR04C	168	RFS twin TMA	147
B5/B13 RRH-BR04C	168	RRUS B71/B12 4449	147
B5/B13 RRH-BR04C	168	RRUS B71/B12 4449	147
RVZDC-6627-PF-48	168	RRUS B71/B12 4449	147
Sabre 12' T-Boom (3)	156		
AM-X-CD-16-65-00T-RET w/ Mount Pipe	156		

MATERIAL STRENGTH

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

TOWER DESIGN NOTES

1. Tower designed for Exposure B to the TIA-222-G Standard.
2. Tower designed for a 93 mph basic wind in accordance with the TIA-222-G Standard.
3. Tower is also designed for a 50 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 60 mph wind.
5. Tower Structure Class II.
6. Topographic Category 1 with Crest Height of 0.00 ft
7. TOWER RATING: 81.9%

ALL REACTIONS ARE FACTORED

MAX. CORNER REACTIONS AT BASE:
DOWN: 269 K
SHEAR: 26 K

UPLIFT: -232 K
SHEAR: 23 K

AXIAL 185 K
SHEAR 15 K
MOMENT 1716 kip-ft

TORQUE 8 kip-ft
50 mph WIND - 1.000 in ICE

AXIAL 52 K
SHEAR 38 K
MOMENT 4353 kip-ft

TORQUE 24 kip-ft
REACTIONS - 93 mph WIND

POD
1033 E Turkeyfoot Lake Rd
Akron, OH 44312
Power of Design Group, LLC
Phone: (330) 961.7432
FAX:

Job: **CT35722-M**			
Project: ***21-109348***			
Client: SBA	Drawn by: aherkenhoff	App'd:	
Code: TIA-222-G	Date: 09/22/21	Scale: NTS	
Path: T:\SBA\35722-M (CT)\(21-109348) Self Support Re-Analysis VZW\TNX\CT35722-M.eri		Dwg No. E-1	

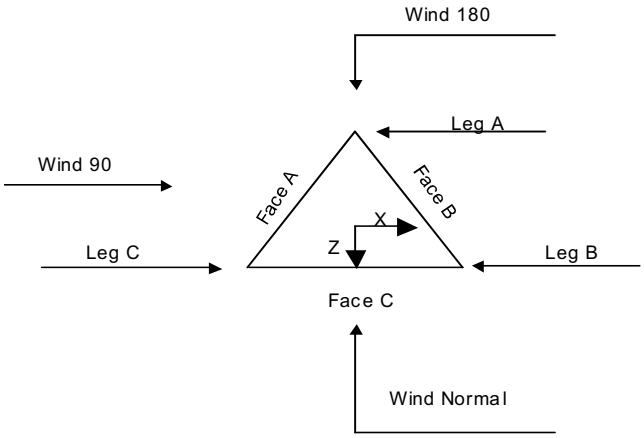
Tower Input Data

The main tower is a 3x free standing tower with an overall height of 180.00 ft above the ground line.
The base of the tower is set at an elevation of 0.00 ft above the ground line.
The face width of the tower is 4.00 ft at the top and 20.00 ft at the base.
This tower is designed using the TIA-222-G standard.
The following design criteria apply:

Basic wind speed of 93 mph.
Structure Class II.
Exposure Category B.
Topographic Category 1.
Crest Height 0.00 ft.
Nominal ice thickness of 1.000 in.
Ice thickness is considered to increase with height.
Ice density of 56 pcf.
A wind speed of 50 mph is used in combination with ice.
Temperature drop of 50 °F.
Deflections calculated using a wind speed of 60 mph.
A non-linear (P-delta) analysis was used.
Pressures are calculated at each section.
Stress ratio used in tower member design is 1.
Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

	Consider Moments - Legs		Distribute Leg Loads As Uniform		Use ASCE 10 X-Brace Ly Rules
	Consider Moments - Horizontals		Assume Legs Pinned	√	Calculate Redundant Bracing Forces
	Consider Moments - Diagonals	√	Assume Rigid Index Plate		Ignore Redundant Members in FEA
	Use Moment Magnification	√	Use Clear Spans For Wind Area		SR Leg Bolts Resist Compression
√	Use Code Stress Ratios	√	Use Clear Spans For KL/r	√	All Leg Panels Have Same Allowable
√	Use Code Safety Factors - Guys	√	Retension Guys To Initial Tension		Offset Girt At Foundation
	Escalate Ice	√	Bypass Mast Stability Checks	√	Consider Feed Line Torque
	Always Use Max Kz	√	Use Azimuth Dish Coefficients	√	Include Angle Block Shear Check
	Use Special Wind Profile	√	Project Wind Area of Appurt.		Use TIA-222-G Bracing Resist. Exemption
√	Include Bolts In Member Capacity	√	Autocalc Torque Arm Areas		Use TIA-222-G Tension Splice Exemption
√	Leg Bolts Are At Top Of Section		Add IBC .6D+W Combination		Poles
√	Secondary Horizontal Braces Leg	√	Sort Capacity Reports By Component		Include Shear-Torsion Interaction
	Use Diamond Inner Bracing (4 Sided)	√	Triangulate Diamond Inner Bracing		Always Use Sub-Critical Flow
	SR Members Have Cut Ends		Treat Feed Line Bundles As Cylinder		Use Top Mounted Sockets
	SR Members Are Concentric		Ignore KL/ry For 60 Deg. Angle Legs		Pole Without Linear Attachments
					Pole With Shroud Or No Appurtenances
					Outside and Inside Corner Radii Are Known



Triangular Tower

Tower Section Geometry

Tower Section	Tower Elevation ft	Assembly Database	Description	Section Width ft	Number of Sections	Section Length ft
T1	180.00-160.00			4.00	1	20.00
T2	160.00-140.00			4.00	1	20.00
T3	140.00-120.00			6.00	1	20.00
T4	120.00-100.00			8.00	1	20.00
T5	100.00-80.00			10.00	1	20.00
T6	80.00-60.00			12.00	1	20.00
T7	60.00-40.00			14.00	1	20.00
T8	40.00-20.00			16.00	1	20.00
T9	20.00-0.00			18.00	1	20.00

Tower Section Geometry *(cont'd)*

Tower Section	Tower Elevation ft	Diagonal Spacing ft	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset in	Bottom Girt Offset in
T1	180.00-160.00	2.38	X Brace	No	No	6.000	6.000
T2	160.00-140.00	10.00	X Brace	No	No	0.000	0.000
T3	140.00-120.00	10.00	X Brace	No	No	0.000	0.000
T4	120.00-100.00	10.00	X Brace	No	No	0.000	0.000
T5	100.00-80.00	10.00	X Brace	No	No	0.000	0.000
T6	80.00-60.00	10.00	X Brace	No	No	0.000	0.000

Tower Section	Tower Elevation ft	Diagonal Spacing ft	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset in	Bottom Girt Offset in
T7	60.00-40.00	10.00	X Brace	No	No	0.000	0.000
T8	40.00-20.00	10.00	X Brace	No	No	0.000	0.000
T9	20.00-0.00	10.00	X Brace	No	No	0.000	0.000

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T1 180.00-160.00	Solid Round	1 1/2	A572-50 (50 ksi)	Solid Round	3/4	A572-50 (50 ksi)
T2 160.00-140.00	Truss Leg	Valmont 195554	A572-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A36 (36 ksi)
T3 140.00-120.00	Truss Leg	Valmont 195554	A572-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A36 (36 ksi)
T4 120.00-100.00	Truss Leg	Valmont 195555	A572-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A36 (36 ksi)
T5 100.00-80.00	Truss Leg	Valmont 195557	A572-50 (50 ksi)	Equal Angle	L3x3x3/16	A36 (36 ksi)
T6 80.00-60.00	Truss Leg	Valmont 195557	A572-50 (50 ksi)	Equal Angle	L3x3x3/16	A36 (36 ksi)
T7 60.00-40.00	Truss Leg	Valmont 195559	A572-50 (50 ksi)	Equal Angle	L3x3x5/16	A36 (36 ksi)
T8 40.00-20.00	Truss Leg	Valmont 195559	A572-50 (50 ksi)	Equal Angle	L3x3x5/16	A36 (36 ksi)
T9 20.00-0.00	Truss Leg	Valmont 195560	A572-50 (50 ksi)	Equal Angle	L3 1/2x3 1/2x5/16	A36 (36 ksi)

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
T1 180.00-160.00	Solid Round	3/4	A570-50 (50 ksi)	Solid Round	3/4	A572-50 (50 ksi)

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Secondary Horizontal Type	Secondary Horizontal Size	Secondary Horizontal Grade	Inner Bracing Type	Inner Bracing Size	Inner Bracing Grade
T1 180.00-160.00	Solid Round		A36 (36 ksi)	Solid Round	9/16	A572-50 (50 ksi)
T2 160.00-140.00	Solid Round		A572-50 (50 ksi)	Solid Round	9/16	A572-50 (50 ksi)
T3 140.00-120.00	Solid Round		A572-50	Solid Round	9/16	A572-50

Tower Elevation ft	Secondary Horizontal Type	Secondary Horizontal Size	Secondary Horizontal Grade	Inner Bracing Type	Inner Bracing Size	Inner Bracing Grade
T4 120.00-100.00	Solid Round		(50 ksi) A572-50 (50 ksi)	Solid Round	9/16	(50 ksi) A572-50 (50 ksi)
T5 100.00-80.00	Solid Round		A572-50 (50 ksi)	Solid Round	9/16	A572-50 (50 ksi)
T6 80.00-60.00	Solid Round		A572-50 (50 ksi)	Solid Round	9/16	A572-50 (50 ksi)
T7 60.00-40.00	Solid Round		A572-50 (50 ksi)	Solid Round	9/16	A572-50 (50 ksi)
T8 40.00-20.00	Solid Round		A572-50 (50 ksi)	Solid Round	9/16	A572-50 (50 ksi)
T9 20.00-0.00	Solid Round		A572-50 (50 ksi)	Solid Round	9/16	A572-50 (50 ksi)

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
T1 180.00-160.00	0.00	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000
T2 160.00-140.00	0.00	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000
T3 140.00-120.00	0.00	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000
T4 120.00-100.00	0.00	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000
T5 100.00-80.00	0.00	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000
T6 80.00-60.00	0.00	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000
T7 60.00-40.00	0.00	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000
T8 40.00-20.00	0.00	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000
T9 20.00-0.00	0.00	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Calc K Single Angles	Calc K Solid Rounds	K Factors[1] Legs	X Brace Diags X Y	K Brace Diags X Y	Single Diags X Y	Girts X Y	Horiz. X Y	Sec. Horiz. X Y	Inner Brace X Y
T1 180.00-160.00	Yes	Yes	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T2 160.00-140.00	Yes	No	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1

Tower Elevation ft	Calc K Single Angles	Calc K Solid Rounds	K Factors[1] Legs	X Brace Diags X Y	K Brace Diags X Y	Single Diags X Y	Girts X Y	Horiz. X Y	Sec. Horiz. X Y	Inner Brace X Y
T3	Yes	No	1	1	1	1	1	1	1	1
140.00-120.00				1	1	1	1	1	1	1
T4	Yes	No	1	1	1	1	1	1	1	1
120.00-100.00				1	1	1	1	1	1	1
T5	Yes	No	1	1	1	1	1	1	1	1
100.00-80.00				1	1	1	1	1	1	1
T6	Yes	No	1	1	1	1	1	1	1	1
80.00-60.00				1	1	1	1	1	1	1
T7	Yes	No	1	1	1	1	1	1	1	1
60.00-40.00				1	1	1	1	1	1	1
T8	Yes	No	1	1	1	1	1	1	1	1
40.00-20.00				1	1	1	1	1	1	1
T9 20.00-0.00	Yes	No	1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1

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

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Truss-Leg K Factors: Truss-Legs Used As Leg Members — Leg Panels	X Brace Diagonals	Z Brace Diagonals	Truss-Legs Used As Inner Members — Leg Panels	X Brace Diagonals	Z Brace Diagonals
T2	1	0.5	0.85	1	0.5	0.85
160.00-140.00						
T3	1	0.5	0.85	1	0.5	0.85
140.00-120.00						
T4	1	0.5	0.85	1	0.5	0.85
120.00-100.00						
T5	1	0.5	0.85	1	0.5	0.85
100.00-80.00						
T6	1	0.5	0.85	1	0.5	0.85
80.00-60.00						
T7	1	0.5	0.85	1	0.5	0.85
60.00-40.00						
T8	1	0.5	0.85	1	0.5	0.85
40.00-20.00						
T9 20.00-0.00	1	0.5	0.85	1	0.5	0.85

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T1 180.00-160.00	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T2 160.00-140.00	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T3 140.00-120.00	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T4 120.00-100.00	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T5 100.00-80.00	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T6 80.00-60.00	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T7 60.00-40.00	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T8 40.00-20.00	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T9 20.00-0.00	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75

Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T1 180.00-160.00	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T2 160.00-140.00	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T3 140.00-120.00	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T4 120.00-100.00	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T5 100.00-80.00	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T6 80.00-60.00	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T7 60.00-40.00	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T8 40.00-20.00	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T9 20.00-0.00	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T1 180.00-160.00	Flange	1.000 A325N	6	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0
T2 160.00-140.00	Flange	1.000 A325N	6	1.000 A325N	1	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0
T3 140.00-120.00	Flange	1.000 A325N	6	1.000 A325N	1	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T4 120.00-100.00	Flange	1.000 A325N	6	1.000 A325N	1	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0
T5 100.00-80.00	Flange	1.000 A325N	6	1.000 A325N	1	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0
T6 80.00-60.00	Flange	1.000 A325N	6	1.000 A325N	1	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0
T7 60.00-40.00	Flange	1.250 A325N	6	1.250 A325N	1	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0
T8 40.00-20.00	Flange	1.250 A325N	6	1.250 A325N	1	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0
T9 20.00-0.00	Flange	0.750 A325N	0	1.250 A325N	1	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
T-Bracket	A	No	No	Af (CaAa)	160.00 - 8.00	-6.000	0.5	1	1	0.000	1.000		8.40
T-Bracket	B	No	No	Af (CaAa)	160.00 - 8.00	-6.000	0.5	1	1	0.000	1.000		8.40
T-Bracket	C	No	No	Af (CaAa)	160.00 - 8.00	-6.000	0.5	1	1	0.000	1.000		8.40
Safety Line 3/8	A	No	No	Ar (CaAa)	180.00 - 0.00	4.000	0.5	1	1	0.500	0.375		0.22
LDF5-50A (7/8 FOAM)	C	No	No	Ar (CaAa)	179.00 - 8.00	-6.000	0.5	3	2	0.500	1.090		0.33
LDF7-50A (1-5/8 FOAM)	C	No	No	Ar (CaAa)	179.00 - 8.00	-6.000	0.5	1	1	0.500	1.980		0.82
LDF7-50A (1-5/8 FOAM)	A	No	No	Ar (CaAa)	168.00 - 8.00	-12.000	0.5	6	6	0.500	1.980		0.82
LDF4P-50A (1/2 FOAM)	A	No	No	Ar (CaAa)	168.00 - 8.00	-12.000	0.5	1	1	0.500	0.630		0.15
Hybrid 1-5/8	A	No	No	Ar (CaAa)	168.00 - 8.00	-12.000	0.5	1	1	0.500	1.970		1.01
LDF7-50A (1-5/8 FOAM)	B	No	No	Ar (CaAa)	156.00 - 8.00	-9.000	0.5	12	6	0.500	1.980		0.82
3/4" Power	B	No	No	Ar (CaAa)	156.00 - 8.00	-12.000	0.5	2	2	0.500	0.870		0.15
5/16" Fiber	B	No	No	Ar (CaAa)	156.00 - 8.00	-12.000	0.5	1	1	0.500	0.630		0.15
EC7-50 (1-5/8 FOAM)	C	No	No	Ar (CaAa)	148.00 - 8.00	-6.000	0.5	9	9	0.500	1.970		1.01
Hybrid	C	No	No	Ar (CaAa)	148.00 - 8.00	-6.000	0.5	3	3	0.500	1.970		1.01

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
T1	180.00-160.00	A	0.000	0.000	12.334	0.000	0.05
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	9.975	0.000	0.03
T2	160.00-140.00	A	0.000	0.000	33.043	0.000	0.29
		B	0.000	0.000	45.141	0.000	0.33
		C	0.000	0.000	32.745	0.000	0.30
T3	140.00-120.00	A	0.000	0.000	33.043	0.000	0.29
		B	0.000	0.000	55.593	0.000	0.37
		C	0.000	0.000	61.113	0.000	0.45
T4	120.00-100.00	A	0.000	0.000	33.043	0.000	0.29
		B	0.000	0.000	55.593	0.000	0.37
		C	0.000	0.000	61.113	0.000	0.45
T5	100.00-80.00	A	0.000	0.000	33.043	0.000	0.29
		B	0.000	0.000	55.593	0.000	0.37
		C	0.000	0.000	61.113	0.000	0.45
T6	80.00-60.00	A	0.000	0.000	33.043	0.000	0.29
		B	0.000	0.000	55.593	0.000	0.37
		C	0.000	0.000	61.113	0.000	0.45
T7	60.00-40.00	A	0.000	0.000	33.043	0.000	0.29
		B	0.000	0.000	55.593	0.000	0.37
		C	0.000	0.000	61.113	0.000	0.45
T8	40.00-20.00	A	0.000	0.000	33.043	0.000	0.29
		B	0.000	0.000	55.593	0.000	0.37
		C	0.000	0.000	61.113	0.000	0.45
T9	20.00-0.00	A	0.000	0.000	20.126	0.000	0.18
		B	0.000	0.000	33.356	0.000	0.22
		C	0.000	0.000	36.668	0.000	0.27

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
T1	180.00-160.00	A	2.356	0.000	0.000	40.027	0.000	0.69
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	37.545	0.000	0.57
T2	160.00-140.00	A	2.327	0.000	0.000	96.907	0.000	1.83
		B		0.000	0.000	80.970	0.000	1.65
		C		0.000	0.000	92.368	0.000	1.67
T3	140.00-120.00	A	2.294	0.000	0.000	96.167	0.000	1.80
		B		0.000	0.000	97.335	0.000	1.94
		C		0.000	0.000	152.237	0.000	2.69
T4	120.00-100.00	A	2.256	0.000	0.000	95.318	0.000	1.76
		B		0.000	0.000	96.511	0.000	1.91
		C		0.000	0.000	151.175	0.000	2.64
T5	100.00-80.00	A	2.211	0.000	0.000	94.316	0.000	1.72
		B		0.000	0.000	95.539	0.000	1.88
		C		0.000	0.000	149.923	0.000	2.59
T6	80.00-60.00	A	2.156	0.000	0.000	93.090	0.000	1.68
		B		0.000	0.000	94.349	0.000	1.83
		C		0.000	0.000	148.391	0.000	2.53
T7	60.00-40.00	A	2.085	0.000	0.000	91.497	0.000	1.61
		B		0.000	0.000	92.804	0.000	1.77
		C		0.000	0.000	146.401	0.000	2.44
T8	40.00-20.00	A	1.981	0.000	0.000	89.181	0.000	1.52
		B		0.000	0.000	90.555	0.000	1.69
		C		0.000	0.000	143.508	0.000	2.33
T9	20.00-0.00	A	1.775	0.000	0.000	53.894	0.000	0.85

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		B		0.000	0.000	51.658	0.000	0.92
		C		0.000	0.000	82.665	0.000	1.26

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
T1	180.00-160.00	-3.597	-3.887	-2.018	-2.228
T2	160.00-140.00	-2.624	-0.449	-1.099	-0.569
T3	140.00-120.00	-8.027	0.430	-5.228	-0.090
T4	120.00-100.00	-9.743	0.181	-7.284	-0.307
T5	100.00-80.00	-10.832	-0.039	-8.985	-0.524
T6	80.00-60.00	-12.270	-0.232	-10.579	-0.737
T7	60.00-40.00	-13.417	-0.404	-11.911	-0.931
T8	40.00-20.00	-14.623	-0.567	-13.262	-1.129
T9	20.00-0.00	-10.026	-0.626	-10.224	-1.936

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T1	4	Safety Line 3/8	160.00 - 180.00	0.6000	0.3685
T1	5	LDF5-50A (7/8 FOAM)	160.00 - 179.00	0.6000	0.3685
T1	6	LDF7-50A (1-5/8 FOAM)	160.00 - 179.00	0.6000	0.3685
T1	7	LDF7-50A (1-5/8 FOAM)	160.00 - 168.00	0.6000	0.3685
T1	8	LDF4P-50A (1/2 FOAM)	160.00 - 168.00	0.6000	0.3685
T1	9	Hybrid 1-5/8	160.00 - 168.00	0.6000	0.3685
T2	1	T-Bracket	140.00 - 160.00	0.6000	0.2846
T2	2	T-Bracket	140.00 - 160.00	0.6000	0.2846
T2	3	T-Bracket	140.00 - 160.00	0.6000	0.2846
T2	4	Safety Line 3/8	140.00 - 160.00	0.6000	0.2846
T2	5	LDF5-50A (7/8 FOAM)	140.00 - 160.00	0.6000	0.2846
T2	6	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.2846
T2	7	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.2846
T2	8	LDF4P-50A (1/2 FOAM)	140.00 - 160.00	0.6000	0.2846
T2	9	Hybrid 1-5/8	140.00 -	0.6000	0.2846

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T2	10	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.2846
T2	11	3/4" Power	140.00 - 156.00	0.6000	0.2846
T2	12	5/16" Fiber	140.00 - 156.00	0.6000	0.2846
T2	13	EC7-50 (1-5/8 FOAM)	140.00 - 156.00	0.6000	0.2846
T2	14	Hybrid	140.00 - 148.00	0.6000	0.2846
T3	1	T-Bracket	120.00 - 148.00	0.6000	0.4341
T3	2	T-Bracket	120.00 - 140.00	0.6000	0.4341
T3	3	T-Bracket	120.00 - 140.00	0.6000	0.4341
T3	4	Safety Line 3/8	120.00 - 140.00	0.6000	0.4341
T3	5	LDF5-50A (7/8 FOAM)	120.00 - 140.00	0.6000	0.4341
T3	6	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.4341
T3	7	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.4341
T3	8	LDF4P-50A (1/2 FOAM)	120.00 - 140.00	0.6000	0.4341
T3	9	Hybrid 1-5/8	120.00 - 140.00	0.6000	0.4341
T3	10	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.4341
T3	11	3/4" Power	120.00 - 140.00	0.6000	0.4341
T3	12	5/16" Fiber	120.00 - 140.00	0.6000	0.4341
T3	13	EC7-50 (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.4341
T3	14	Hybrid	120.00 - 140.00	0.6000	0.4341
T4	1	T-Bracket	100.00 - 120.00	0.6000	0.5247
T4	2	T-Bracket	100.00 - 120.00	0.6000	0.5247
T4	3	T-Bracket	100.00 - 120.00	0.6000	0.5247
T4	4	Safety Line 3/8	100.00 - 120.00	0.6000	0.5247
T4	5	LDF5-50A (7/8 FOAM)	100.00 - 120.00	0.6000	0.5247
T4	6	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.5247
T4	7	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.5247
T4	8	LDF4P-50A (1/2 FOAM)	100.00 - 120.00	0.6000	0.5247
T4	9	Hybrid 1-5/8	100.00 - 120.00	0.6000	0.5247
T4	10	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.5247
T4	11	3/4" Power	100.00 - 120.00	0.6000	0.5247
T4	12	5/16" Fiber	100.00 -	0.6000	0.5247

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
			120.00		
T4	13	EC7-50 (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.5247
T4	14	Hybrid	100.00 - 120.00	0.6000	0.5247
T5	1	T-Bracket	80.00 - 100.00	0.6000	0.5774
T5	2	T-Bracket	80.00 - 100.00	0.6000	0.5774
T5	3	T-Bracket	80.00 - 100.00	0.6000	0.5774
T5	4	Safety Line 3/8	80.00 - 100.00	0.6000	0.5774
T5	5	LDF5-50A (7/8 FOAM)	80.00 - 100.00	0.6000	0.5774
T5	6	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.5774
T5	7	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.5774
T5	8	LDF4P-50A (1/2 FOAM)	80.00 - 100.00	0.6000	0.5774
T5	9	Hybrid 1-5/8	80.00 - 100.00	0.6000	0.5774
T5	10	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.5774
T5	11	3/4" Power	80.00 - 100.00	0.6000	0.5774
T5	12	5/16" Fiber	80.00 - 100.00	0.6000	0.5774
T5	13	EC7-50 (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.5774
T5	14	Hybrid	80.00 - 100.00	0.6000	0.5774
T6	1	T-Bracket	60.00 - 80.00	0.6000	0.6000
T6	2	T-Bracket	60.00 - 80.00	0.6000	0.6000
T6	3	T-Bracket	60.00 - 80.00	0.6000	0.6000
T6	4	Safety Line 3/8	60.00 - 80.00	0.6000	0.6000
T6	5	LDF5-50A (7/8 FOAM)	60.00 - 80.00	0.6000	0.6000
T6	6	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.6000
T6	7	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.6000
T6	8	LDF4P-50A (1/2 FOAM)	60.00 - 80.00	0.6000	0.6000
T6	9	Hybrid 1-5/8	60.00 - 80.00	0.6000	0.6000
T6	10	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.6000
T6	11	3/4" Power	60.00 - 80.00	0.6000	0.6000
T6	12	5/16" Fiber	60.00 - 80.00	0.6000	0.6000
T6	13	EC7-50 (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.6000
T6	14	Hybrid	60.00 - 80.00	0.6000	0.6000
T7	1	T-Bracket	40.00 - 60.00	0.6000	0.6000
T7	2	T-Bracket	40.00 - 60.00	0.6000	0.6000
T7	3	T-Bracket	40.00 - 60.00	0.6000	0.6000
T7	4	Safety Line 3/8	40.00 - 60.00	0.6000	0.6000
T7	5	LDF5-50A (7/8 FOAM)	40.00 - 60.00	0.6000	0.6000
T7	6	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.6000
T7	7	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.6000
T7	8	LDF4P-50A (1/2 FOAM)	40.00 - 60.00	0.6000	0.6000
T7	9	Hybrid 1-5/8	40.00 - 60.00	0.6000	0.6000
T7	10	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.6000
T7	11	3/4" Power	40.00 - 60.00	0.6000	0.6000
T7	12	5/16" Fiber	40.00 - 60.00	0.6000	0.6000
T7	13	EC7-50 (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.6000
T7	14	Hybrid	40.00 - 60.00	0.6000	0.6000
T8	1	T-Bracket	20.00 - 40.00	0.6000	0.6000
T8	2	T-Bracket	20.00 - 40.00	0.6000	0.6000
T8	3	T-Bracket	20.00 - 40.00	0.6000	0.6000
T8	4	Safety Line 3/8	20.00 - 40.00	0.6000	0.6000
T8	5	LDF5-50A (7/8 FOAM)	20.00 - 40.00	0.6000	0.6000
T8	6	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.6000
T8	7	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.6000
T8	8	LDF4P-50A (1/2 FOAM)	20.00 - 40.00	0.6000	0.6000
T8	9	Hybrid 1-5/8	20.00 - 40.00	0.6000	0.6000
T8	10	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.6000
T8	11	3/4" Power	20.00 - 40.00	0.6000	0.6000
T8	12	5/16" Fiber	20.00 - 40.00	0.6000	0.6000
T8	13	EC7-50 (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.6000
T8	14	Hybrid	20.00 - 40.00	0.6000	0.6000
T9	1	T-Bracket	8.00 - 20.00	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T9	2	T-Bracket	8.00 - 20.00	0.6000	0.6000
T9	3	T-Bracket	8.00 - 20.00	0.6000	0.6000
T9	4	Safety Line 3/8	0.00 - 20.00	0.6000	0.6000
T9	5	LDF5-50A (7/8 FOAM)	8.00 - 20.00	0.6000	0.6000
T9	6	LDF7-50A (1-5/8 FOAM)	8.00 - 20.00	0.6000	0.6000
T9	7	LDF7-50A (1-5/8 FOAM)	8.00 - 20.00	0.6000	0.6000
T9	8	LDF4P-50A (1/2 FOAM)	8.00 - 20.00	0.6000	0.6000
T9	9	Hybrid 1-5/8	8.00 - 20.00	0.6000	0.6000
T9	10	LDF7-50A (1-5/8 FOAM)	8.00 - 20.00	0.6000	0.6000
T9	11	3/4" Power	8.00 - 20.00	0.6000	0.6000
T9	12	5/16" Fiber	8.00 - 20.00	0.6000	0.6000
T9	13	EC7-50 (1-5/8 FOAM)	8.00 - 20.00	0.6000	0.6000
T9	14	Hybrid	8.00 - 20.00	0.6000	0.6000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
PiRod 22' Halo (Candelabra) Mount	C	None		0.0000	179.00	No Ice	70.47	70.47	3.08
						1/2" Ice	100.14	100.14	4.50
						1" Ice	129.81	129.81	5.92
20'x4 Element Dipole	C	From Leg	6.00	0.0000	179.00	No Ice	7.00	7.00	0.05
			0.00			1/2" Ice	9.04	9.04	0.10
			10.00			1" Ice	11.09	11.09	0.16
20' Omni (3" Diam)	A	From Leg	6.00	0.0000	179.00	No Ice	6.00	6.00	0.08
			0.00			1/2" Ice	8.03	8.03	0.12
			10.00			1" Ice	10.08	10.08	0.17
20' Omni (3" Diam)	B	From Leg	6.00	0.0000	179.00	No Ice	6.00	6.00	0.08
			0.00			1/2" Ice	8.03	8.03	0.12
			10.00			1" Ice	10.08	10.08	0.17
20' Omni (3" Diam)	C	From Leg	6.00	0.0000	179.00	No Ice	6.00	6.00	0.08
			0.00			1/2" Ice	8.03	8.03	0.12
			10.00			1" Ice	10.08	10.08	0.17
******									
V-Frame Mounts (3)	C	None		0.0000	168.00	No Ice	22.47	22.47	1.03
						1/2" Ice	31.99	31.99	1.50
						1" Ice	41.51	41.51	1.97
MT6407-77A w/ Mount Pipe	A	From Leg	3.00	0.0000	168.00	No Ice	5.16	3.02	0.10
			0.00			1/2" Ice	5.58	3.55	0.14
			0.00			1" Ice	6.00	4.09	0.19
MT6407-77A w/ Mount Pipe	B	From Leg	3.00	0.0000	168.00	No Ice	5.16	3.02	0.10
			0.00			1/2" Ice	5.58	3.55	0.14
			0.00			1" Ice	6.00	4.09	0.19
MT6407-77A w/ Mount Pipe	C	From Leg	3.00	0.0000	168.00	No Ice	5.16	3.02	0.10
			0.00			1/2" Ice	5.58	3.55	0.14
			0.00			1" Ice	6.00	4.09	0.19
(2) NHH-65B-R2B w/ Mount Pipe	A	From Leg	3.00	0.0000	168.00	No Ice	8.08	6.77	0.07
			0.00			1/2" Ice	8.53	7.72	0.13
			0.00			1" Ice	9.00	8.55	0.21
(2) NHH-65B-R2B w/ Mount	B	From Leg	3.00	0.0000	168.00	No Ice	8.08	6.77	0.07

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
Pipe			0.00			1/2" Ice	8.53	7.72	0.13
			0.00			1" Ice	9.00	8.55	0.21
(2) NHH-65B-R2B w/ Mount Pipe	C	From Leg	3.00	0.0000	168.00	No Ice	8.08	6.77	0.07
			0.00			1/2" Ice	8.53	7.72	0.13
			0.00			1" Ice	9.00	8.55	0.21
(2) LPA-80080/6CF w/ Mount Pipe	A	From Leg	3.00	0.0000	168.00	No Ice	17.97	14.41	0.21
			0.00			1/2" Ice	18.61	15.83	0.37
			0.00			1" Ice	19.25	17.09	0.53
(2) LPA-80080/6CF w/ Mount Pipe	B	From Leg	3.00	0.0000	168.00	No Ice	17.97	14.41	0.21
			0.00			1/2" Ice	18.61	15.83	0.37
			0.00			1" Ice	19.25	17.09	0.53
(2) LPA-80080/6CF w/ Mount Pipe	C	From Leg	3.00	0.0000	168.00	No Ice	17.97	14.41	0.21
			0.00			1/2" Ice	18.61	15.83	0.37
			0.00			1" Ice	19.25	17.09	0.53
BSAMNT-SBS-1-2	A	From Leg	3.00	0.0000	168.00	No Ice	1.18	0.33	0.02
			0.00			1/2" Ice	1.34	0.41	0.03
			0.00			1" Ice	1.51	0.49	0.05
BSAMNT-SBS-1-2	B	From Leg	3.00	0.0000	168.00	No Ice	1.18	0.33	0.02
			0.00			1/2" Ice	1.34	0.41	0.03
			0.00			1" Ice	1.51	0.49	0.05
BSAMNT-SBS-1-2	C	From Leg	3.00	0.0000	168.00	No Ice	1.18	0.33	0.02
			0.00			1/2" Ice	1.34	0.41	0.03
			0.00			1" Ice	1.51	0.49	0.05
B2/B66A RRH-BR049	A	From Leg	3.00	0.0000	168.00	No Ice	1.88	1.25	0.08
			0.00			1/2" Ice	2.05	1.39	0.10
			0.00			1" Ice	2.22	1.54	0.12
B2/B66A RRH-BR049	B	From Leg	3.00	0.0000	168.00	No Ice	1.88	1.25	0.08
			0.00			1/2" Ice	2.05	1.39	0.10
			0.00			1" Ice	2.22	1.54	0.12
B2/B66A RRH-BR049	C	From Leg	3.00	0.0000	168.00	No Ice	1.88	1.25	0.08
			0.00			1/2" Ice	2.05	1.39	0.10
			0.00			1" Ice	2.22	1.54	0.12
B5/B13 RRH-BR04C	A	From Leg	3.00	0.0000	168.00	No Ice	1.88	1.01	0.07
			0.00			1/2" Ice	2.05	1.14	0.09
			0.00			1" Ice	2.22	1.28	0.11
B5/B13 RRH-BR04C	B	From Leg	3.00	0.0000	168.00	No Ice	1.88	1.01	0.07
			0.00			1/2" Ice	2.05	1.14	0.09
			0.00			1" Ice	2.22	1.28	0.11
B5/B13 RRH-BR04C	C	From Leg	3.00	0.0000	168.00	No Ice	1.88	1.01	0.07
			0.00			1/2" Ice	2.05	1.14	0.09
			0.00			1" Ice	2.22	1.28	0.11
RVZDC-6627-PF-48	C	From Leg	3.00	0.0000	168.00	No Ice	3.79	2.51	0.03
			0.00			1/2" Ice	4.04	2.72	0.06
			0.00			1" Ice	4.30	2.94	0.10
Sabre 12' T-Boom (3)	C	None		0.0000	156.00	No Ice	33.11	33.11	1.54
						1/2" Ice	44.90	44.90	2.16
						1" Ice	56.69	56.69	2.78
AM-X-CD-16-65-00T-RET w/ Mount Pipe	A	From Leg	3.00	0.0000	156.00	No Ice	6.40	5.54	0.05
			0.00			1/2" Ice	6.89	6.38	0.11
			0.00			1" Ice	7.35	7.09	0.18
AM-X-CD-16-65-00T-RET w/ Mount Pipe	B	From Leg	3.00	0.0000	156.00	No Ice	6.40	5.54	0.05
			0.00			1/2" Ice	6.89	6.38	0.11
			0.00			1" Ice	7.35	7.09	0.18
AM-X-CD-16-65-00T-RET w/ Mount Pipe	C	From Leg	3.00	0.0000	156.00	No Ice	6.40	5.54	0.05
			0.00			1/2" Ice	6.89	6.38	0.11
			0.00			1" Ice	7.35	7.09	0.18
(2) 7770.00	A	From Leg	3.00	0.0000	156.00	No Ice	5.51	2.93	0.04

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.00			1/2" Ice	5.87	3.27	0.07
			0.00			1" Ice	6.23	3.61	0.11
(2) 7770.00	B	From Leg	3.00	0.0000	156.00	No Ice	5.51	2.93	0.04
			0.00			1/2" Ice	5.87	3.27	0.07
			0.00			1" Ice	6.23	3.61	0.11
(2) 7770.00	C	From Leg	3.00	0.0000	156.00	No Ice	5.51	2.93	0.04
			0.00			1/2" Ice	5.87	3.27	0.07
			0.00			1" Ice	6.23	3.61	0.11
(2) LGP2140X	A	From Leg	3.00	0.0000	156.00	No Ice	1.08	0.36	0.01
			0.00			1/2" Ice	1.21	0.45	0.02
			0.00			1" Ice	1.35	0.56	0.03
(2) LGP2140X	B	From Leg	3.00	0.0000	156.00	No Ice	1.08	0.36	0.01
			0.00			1/2" Ice	1.21	0.45	0.02
			0.00			1" Ice	1.35	0.56	0.03
(2) LGP2140X	C	From Leg	3.00	0.0000	156.00	No Ice	1.08	0.36	0.01
			0.00			1/2" Ice	1.21	0.45	0.02
			0.00			1" Ice	1.35	0.56	0.03
RRUS-11	A	From Leg	3.00	0.0000	156.00	No Ice	2.79	1.19	0.05
			0.00			1/2" Ice	3.00	1.34	0.07
			0.00			1" Ice	3.21	1.50	0.09
RRUS-11	B	From Leg	3.00	0.0000	156.00	No Ice	2.79	1.19	0.05
			0.00			1/2" Ice	3.00	1.34	0.07
			0.00			1" Ice	3.21	1.50	0.09
RRUS-11	C	From Leg	3.00	0.0000	156.00	No Ice	2.79	1.19	0.05
			0.00			1/2" Ice	3.00	1.34	0.07
			0.00			1" Ice	3.21	1.50	0.09
DC6-48-60-18-8F	C	From Leg	3.00	0.0000	156.00	No Ice	1.21	1.21	0.03
			0.00			1/2" Ice	1.89	1.89	0.05
			0.00			1" Ice	2.11	2.11	0.08
*****									
T-Boom (3)	C	None		0.0000	147.00	No Ice	25.20	25.20	1.54
						1/2" Ice	36.10	36.10	2.16
						1" Ice	47.00	47.00	2.78
APX16DWV-16DWVS	A	From Leg	3.00	0.0000	147.00	No Ice	6.08	2.00	0.03
			0.00			1/2" Ice	6.44	2.33	0.06
			1.00			1" Ice	6.80	2.66	0.09
APX16DWV-16DWVS	B	From Leg	3.00	0.0000	147.00	No Ice	6.08	2.00	0.03
			0.00			1/2" Ice	6.44	2.33	0.06
			1.00			1" Ice	6.80	2.66	0.09
APX16DWV-16DWVS	C	From Leg	3.00	0.0000	147.00	No Ice	6.08	2.00	0.03
			0.00			1/2" Ice	6.44	2.33	0.06
			1.00			1" Ice	6.80	2.66	0.09
APXVAARR24-43-U-NA20	A	From Leg	3.00	0.0000	147.00	No Ice	22.38	8.89	0.09
			0.00			1/2" Ice	23.16	9.49	0.20
			1.00			1" Ice	23.95	10.09	0.32
APXVAARR24-43-U-NA20	B	From Leg	3.00	0.0000	147.00	No Ice	22.38	8.89	0.09
			0.00			1/2" Ice	23.16	9.49	0.20
			1.00			1" Ice	23.95	10.09	0.32
APXVAARR24-43-U-NA20	C	From Leg	3.00	0.0000	147.00	No Ice	22.38	8.89	0.09
			0.00			1/2" Ice	23.16	9.49	0.20
			1.00			1" Ice	23.95	10.09	0.32
RFS twin TMA	A	From Leg	3.00	0.0000	147.00	No Ice	1.00	0.41	0.01
			0.00			1/2" Ice	1.13	0.50	0.02
			1.00			1" Ice	1.26	0.59	0.03
RFS twin TMA	B	From Leg	3.00	0.0000	147.00	No Ice	1.00	0.41	0.01
			0.00			1/2" Ice	1.13	0.50	0.02
			1.00			1" Ice	1.26	0.59	0.03

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
RFS twin TMA	C	From Leg	3.00	0.0000	147.00	No Ice	1.00	0.41	0.01
			0.00			1/2" Ice	1.13	0.50	0.02
			1.00			1" Ice	1.26	0.59	0.03
RRUS B71/B12 4449	A	From Leg	3.00	0.0000	147.00	No Ice	1.64	1.30	0.07
			0.00			1/2" Ice	1.80	1.45	0.09
			1.00			1" Ice	1.97	1.60	0.11
RRUS B71/B12 4449	B	From Leg	3.00	0.0000	147.00	No Ice	1.64	1.30	0.07
			0.00			1/2" Ice	1.80	1.45	0.09
			1.00			1" Ice	1.97	1.60	0.11
RRUS B71/B12 4449	C	From Leg	3.00	0.0000	147.00	No Ice	1.64	1.30	0.07
			0.00			1/2" Ice	1.80	1.45	0.09
			1.00			1" Ice	1.97	1.60	0.11

Truss-Leg Properties

Section Designation	Area in^2	Area Ice in^2	Self Weight K	Ice Weight K	Equiv. Diameter in	Equiv. Diameter Ice in	Leg Area in^2
Valmont 195554	1788.494	6176.074	0.41	1.76	6.210	21.445	3.682
Valmont 195554	1788.494	6153.420	0.41	1.71	6.210	21.366	3.682
Valmont 195555	1920.050	6199.381	0.52	1.70	6.667	21.526	5.301
Valmont 195557	2046.349	6240.671	0.65	1.67	7.105	21.669	7.216
Valmont 195557	2046.349	6203.071	0.65	1.60	7.105	21.538	7.216
Valmont 195559	2176.777	6226.187	0.80	1.53	7.558	21.619	9.425
Valmont 195559	2176.777	6155.046	0.80	1.40	7.558	21.372	9.425
Valmont 195560	2393.445	6085.820	1.02	1.25	8.311	21.131	11.928

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.6 Wind 0 deg - No Ice
3	0.9 Dead+1.6 Wind 0 deg - No Ice
4	1.2 Dead+1.6 Wind 30 deg - No Ice
5	0.9 Dead+1.6 Wind 30 deg - No Ice
6	1.2 Dead+1.6 Wind 60 deg - No Ice
7	0.9 Dead+1.6 Wind 60 deg - No Ice
8	1.2 Dead+1.6 Wind 90 deg - No Ice
9	0.9 Dead+1.6 Wind 90 deg - No Ice
10	1.2 Dead+1.6 Wind 120 deg - No Ice
11	0.9 Dead+1.6 Wind 120 deg - No Ice
12	1.2 Dead+1.6 Wind 150 deg - No Ice
13	0.9 Dead+1.6 Wind 150 deg - No Ice
14	1.2 Dead+1.6 Wind 180 deg - No Ice
15	0.9 Dead+1.6 Wind 180 deg - No Ice
16	1.2 Dead+1.6 Wind 210 deg - No Ice

Comb. No.	Description
17	0.9 Dead+1.6 Wind 210 deg - No Ice
18	1.2 Dead+1.6 Wind 240 deg - No Ice
19	0.9 Dead+1.6 Wind 240 deg - No Ice
20	1.2 Dead+1.6 Wind 270 deg - No Ice
21	0.9 Dead+1.6 Wind 270 deg - No Ice
22	1.2 Dead+1.6 Wind 300 deg - No Ice
23	0.9 Dead+1.6 Wind 300 deg - No Ice
24	1.2 Dead+1.6 Wind 330 deg - No Ice
25	0.9 Dead+1.6 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	180 - 160	5.393	47	0.3215	0.0501
T2	160 - 140	4.068	47	0.2874	0.0390
T3	140 - 120	2.915	47	0.2411	0.0251
T4	120 - 100	2.004	47	0.1791	0.0184
T5	100 - 80	1.325	47	0.1338	0.0132
T6	80 - 60	0.815	47	0.1004	0.0093
T7	60 - 40	0.442	47	0.0676	0.0059
T8	40 - 20	0.196	47	0.0428	0.0037
T9	20 - 0	0.052	47	0.0186	0.0017

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
179.00	PiRod 22' Halo (Candelabra) Mount	47	5.325	0.3199	0.0496	98806
168.00	V-Frame Mounts (3)	47	4.586	0.3017	0.0439	41169
156.00	Sabre 12' T-Boom (3)	47	3.820	0.2795	0.0361	23221
147.00	T-Boom (3)	47	3.292	0.2596	0.0295	20449

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	180 - 160	20.666	18	1.2289	0.1929
T2	160 - 140	15.596	18	1.1005	0.1501
T3	140 - 120	11.176	18	0.9240	0.0967
T4	120 - 100	7.686	18	0.6867	0.0709
T5	100 - 80	5.082	18	0.5128	0.0507
T6	80 - 60	3.125	18	0.3850	0.0360
T7	60 - 40	1.695	18	0.2591	0.0226
T8	40 - 20	0.754	18	0.1642	0.0144
T9	20 - 0	0.201	2	0.0714	0.0065

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
179.00	PiRod 22' Halo (Candelabra) Mount	18	20.407	1.2229	0.1910	26194
168.00	V-Frame Mounts (3)	18	17.578	1.1548	0.1691	10914
156.00	Sabre 12' T-Boom (3)	18	14.646	1.0708	0.1392	6125
147.00	T-Boom (3)	18	12.625	0.9948	0.1137	5345

Bolt Design Data

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load / Allowable	Allowable Ratio	Criteria
T1	180	Leg	A325N	1.000	6	0.00	53.01	0.000 ✔	1	Bolt Tension
T2	160	Leg	A325N	1.000	6	6.27	53.01	0.118 ✔	1	Bolt Tension
		Diagonal	A325N	1.000	1	7.49	9.14	0.819 ✔	1	Member Block Shear
T3	140	Leg	A325N	1.000	6	13.12	53.01	0.247 ✔	1	Bolt Tension
		Diagonal	A325N	1.000	1	6.64	9.14	0.726 ✔	1	Member Block Shear
T4	120	Leg	A325N	1.000	6	18.53	53.01	0.349 ✔	1	Bolt Tension
		Diagonal	A325N	1.000	1	5.72	9.14	0.626 ✔	1	Member Block Shear

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load / Allowable	Allowable Ratio	Criteria
T5	100	Leg	A325N	1.000	6	22.86	53.01	0.431 ✔	1	Bolt Tension
		Diagonal	A325N	1.000	1	5.56	10.16	0.547 ✔	1	Member Block Shear
T6	80	Leg	A325N	1.000	6	26.69	53.01	0.503 ✔	1	Bolt Tension
		Diagonal	A325N	1.000	1	5.56	10.16	0.547 ✔	1	Member Block Shear
T7	60	Leg	A325N	1.250	6	30.20	82.83	0.365 ✔	1	Bolt Tension
		Diagonal	A325N	1.250	1	5.86	17.14	0.342 ✔	1	Member Block Shear
T8	40	Leg	A325N	1.250	6	33.47	82.83	0.404 ✔	1	Bolt Tension
		Diagonal	A325N	1.250	1	6.00	17.14	0.350 ✔	1	Member Block Shear
T9	20	Diagonal	A325N	1.250	1	7.08	20.54	0.345 ✔	1	Member Block Shear

Compression Checks

Leg Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	P_n K	Ratio $\frac{P_u}{P_n}$
T1	180 - 160	1 1/2	20.00	2.38	76.0 K=1.00	1.767	-35.99	52.13	0.690 [1] ✔
T2	160 - 140	Valmont 195554	20.03	10.02	45.6 K=1.00	3.682	-67.81	142.30	0.477 [1] ✔
T3	140 - 120	Valmont 195554	20.03	10.02	45.6 K=1.00	3.682	-107.65	142.30	0.756 [1] ✔
T4	120 - 100	Valmont 195555	20.03	10.02	36.0 K=1.00	5.301	-139.42	217.00	0.642 [1] ✔
T5	100 - 80	Valmont 195557	20.03	10.02	32.6 K=1.00	7.216	-167.54	300.48	0.558 [1] ✔
T6	80 - 60	Valmont 195557	20.03	10.02	32.6 K=1.00	7.216	-192.97	300.48	0.642 [1] ✔
T7	60 - 40	Valmont 195559	20.03	10.02	28.5 K=1.00	9.425	-217.60	399.66	0.544 [1] ✔
T8	40 - 20	Valmont 195559	20.03	10.02	28.5 K=1.00	9.425	-240.72	399.66	0.602 [1] ✔
T9	20 - 0	Valmont 195560	20.03	10.02	25.6 K=1.00	11.928	-262.62	511.74	0.513 [1] ✔

[1] P_u / P_n controls

Truss-Leg Diagonal Data

Section No.	Elevation ft	Diagonal Size	L_d ft	Kl/r	P_n K	A in^2	V_u K	V_n K	Stress Ratio
T2	160 - 140	0.5	1.49	121.4	165.67	0.196	0.87	3.27	0.266 ✓
T3	140 - 120	0.5	1.49	121.4	165.67	0.196	0.21	3.27	0.064 ✓
T4	120 - 100	0.5	1.43	116.3	238.57	0.196	0.17	3.59	0.048 ✓
T5	100 - 80	0.5	1.46	119.4	324.71	0.196	0.21	3.35	0.064 ✓
T6	80 - 60	0.5	1.46	119.4	324.71	0.196	0.23	3.35	0.068 ✓
T7	60 - 40	0.5	1.45	118.4	424.12	0.196	0.24	3.40	0.070 ✓
T8	40 - 20	0.5	1.45	118.4	424.12	0.196	0.74	3.40	0.217 ✓
T9	20 - 0	0.625	1.45	94.5	536.77	0.307	1.29	6.90	0.188 ✓

Diagonal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	P_n K	Ratio $\frac{P_u}{P_n}$
T1	180 - 160	3/4	4.65	2.25	129.8 K=0.90	0.442	-4.08	5.92	0.689 [1] ✓
T2	160 - 140	L2 1/2x2 1/2x3/16	11.42	5.02	121.8 K=1.00	0.902	-7.68	13.38	0.574 [1] ✓
T3	140 - 120	L2 1/2x2 1/2x3/16	12.50	5.67	137.4 K=1.00	0.902	-6.46	10.79	0.599 [1] ✓
T4	120 - 100	L2 1/2x2 1/2x3/16	13.80	6.37	154.4 K=1.00	0.902	-5.86	8.55	0.685 [1] ✓
T5	100 - 80	L3x3x3/16	15.24	7.12	143.4 K=1.00	1.090	-5.73	11.97	0.479 [1] ✓
T6	80 - 60	L3x3x3/16	16.80	7.92	159.5 K=1.00	1.090	-5.84	9.67	0.604 [1] ✓
T7	60 - 40	L3x3x5/16	18.45	8.73	177.8 K=1.00	1.780	-6.08	12.72	0.478 [1] ✓
T8	40 - 20	L3x3x5/16	20.16	9.59	195.4 K=1.00	1.780	-6.48	10.53	0.615 [1] ✓
T9	20 - 0	L3 1/2x3 1/2x5/16	21.92	10.48	182.3 K=1.00	2.090	-7.85	14.22	0.552 [1] ✓

[1] P_u / P_n controls

Top Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	P_n K	Ratio $\frac{P_u}{P_n}$
T1	180 - 160	3/4	4.00	3.88	173.6 K=0.70	0.442	-0.17	3.31	0.050 [1] ✔

[1] P_u / P_n controls

Bottom Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	P_n K	Ratio $\frac{P_u}{P_n}$
T1	180 - 160	3/4	4.00	3.88	173.6 K=0.70	0.442	-0.95	3.31	0.287 [1] ✔

[1] P_u / P_n controls

Tension Checks

Leg Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	P_n K	Ratio $\frac{P_u}{P_n}$
T1	180 - 160	1 1/2	20.00	2.38	76.0	1.767	30.60	79.52	0.385 [1] ✔
T2	160 - 140	Valmont 195554	20.03	10.02	45.6	3.682	58.24	165.67	0.352 [1] ✔
T3	140 - 120	Valmont 195554	20.03	10.02	45.6	3.682	95.49	165.67	0.576 [1] ✔
T4	120 - 100	Valmont 195555	20.03	10.02	36.0	5.301	124.11	238.57	0.520 [1] ✔
T5	100 - 80	Valmont 195557	20.03	10.02	32.6	7.216	148.75	324.71	0.458 [1] ✔
T6	80 - 60	Valmont 195557	20.03	10.02	32.6	7.216	170.64	324.71	0.526 [1] ✔
T7	60 - 40	Valmont 195559	20.03	10.02	28.5	9.425	191.12	424.12	0.451 [1] ✔
T8	40 - 20	Valmont 195559	20.03	10.02	28.5	9.425	210.06	424.12	0.495 [1] ✔
T9	20 - 0	Valmont 195560	20.03	10.02	25.6	11.928	227.38	536.77	0.424 [1] ✔

[1] P_u / P_n controls

Truss-Leg Diagonal Data

Section No.	Elevation ft	Diagonal Size	L_d ft	Kl/r	P_n K	A in^2	V_u K	V_n K	Stress Ratio
T2	160 - 140	0.5	1.49	121.4	165.67	0.196	0.87	3.27	0.266 ✓
T3	140 - 120	0.5	1.49	121.4	165.67	0.196	0.21	3.27	0.064 ✓
T4	120 - 100	0.5	1.43	116.3	238.57	0.196	0.17	3.59	0.048 ✓
T5	100 - 80	0.5	1.46	119.4	324.71	0.196	0.21	3.35	0.064 ✓
T6	80 - 60	0.5	1.46	119.4	324.71	0.196	0.23	3.35	0.068 ✓
T7	60 - 40	0.5	1.45	118.4	424.12	0.196	0.24	3.40	0.070 ✓
T8	40 - 20	0.5	1.45	118.4	424.12	0.196	0.74	3.40	0.217 ✓
T9	20 - 0	0.625	1.45	94.5	536.77	0.307	1.29	6.90	0.188 ✓

Diagonal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	P_n K	Ratio $\frac{P_u}{P_n}$
T1	180 - 160	3/4	4.65	2.25	144.2	0.442	4.05	19.88	0.204 [1] ✓
T2	160 - 140	L2 1/2x2 1/2x3/16	11.42	5.02	80.1	0.518	7.49	22.55	0.332 [1] ✓
T3	140 - 120	L2 1/2x2 1/2x3/16	11.93	5.42	86.2	0.518	6.64	22.55	0.295 [1] ✓
T4	120 - 100	L2 1/2x2 1/2x3/16	13.13	6.06	96.0	0.518	5.72	22.55	0.254 [1] ✓
T5	100 - 80	L3x3x3/16	14.50	6.77	88.6	0.659	5.56	28.68	0.194 [1] ✓
T6	80 - 60	L3x3x3/16	16.01	7.54	98.4	0.659	5.56	28.68	0.194 [1] ✓
T7	60 - 40	L3x3x5/16	17.62	8.32	110.8	1.013	5.86	44.05	0.133 [1] ✓
T8	40 - 20	L3x3x5/16	20.16	9.59	127.4	1.013	6.00	44.05	0.136 [1] ✓
T9	20 - 0	L3 1/2x3 1/2x5/16	21.92	10.48	118.6	1.245	7.08	54.17	0.131 [1] ✓

[1] P_u / P_n controls

Top Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	P_n K	Ratio $\frac{P_u}{P_n}$
T1	180 - 160	3/4	4.00	3.88	248.0	0.442	0.15	19.88	0.008 [1] ✔

[1] P_u / P_n controls

Bottom Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	P_n K	Ratio $\frac{P_u}{P_n}$
T1	180 - 160	3/4	4.00	3.88	248.0	0.442	1.02	19.88	0.052 [1] ✔

[1] P_u / P_n controls

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
T1	180 - 160	Leg	1 1/2	1	-35.99	52.13	69.0	Pass
T2	160 - 140	Leg	Valmont 195554	58	-67.81	142.30	47.7	Pass
T3	140 - 120	Leg	Valmont 195554	73	-107.65	142.30	75.6	Pass
T4	120 - 100	Leg	Valmont 195555	88	-139.42	217.00	64.2	Pass
T5	100 - 80	Leg	Valmont 195557	103	-167.54	300.48	55.8	Pass
T6	80 - 60	Leg	Valmont 195557	118	-192.97	300.48	64.2	Pass
T7	60 - 40	Leg	Valmont 195559	133	-217.60	399.66	54.4	Pass
T8	40 - 20	Leg	Valmont 195559	148	-240.72	399.66	60.2	Pass
T9	20 - 0	Leg	Valmont 195560	163	-262.62	511.74	51.3	Pass
T1	180 - 160	Diagonal	3/4	15	-4.08	5.92	68.9	Pass
T2	160 - 140	Diagonal	L2 1/2x2 1/2x3/16	65	-7.68	13.38	57.4 81.9 (b)	Pass
T3	140 - 120	Diagonal	L2 1/2x2 1/2x3/16	80	-6.46	10.79	59.9 72.6 (b)	Pass
T4	120 - 100	Diagonal	L2 1/2x2 1/2x3/16	95	-5.86	8.55	68.5	Pass
T5	100 - 80	Diagonal	L3x3x3/16	110	-5.73	11.97	47.9 54.7 (b)	Pass
T6	80 - 60	Diagonal	L3x3x3/16	125	-5.84	9.67	60.4	Pass
T7	60 - 40	Diagonal	L3x3x5/16	140	-6.08	12.72	47.8	Pass
T8	40 - 20	Diagonal	L3x3x5/16	155	-6.48	10.53	61.5	Pass
T9	20 - 0	Diagonal	L3 1/2x3 1/2x5/16	170	-7.85	14.22	55.2	Pass
T1	180 - 160	Top Girt	3/4	6	-0.17	3.31	5.0	Pass
T1	180 - 160	Bottom Girt	3/4	9	-0.95	3.31	28.7	Pass
						Summary		
						Leg (T3)	75.6	Pass
						Diagonal (T2)	81.9	Pass
						Top Girt (T1)	5.0	Pass
						Bottom Girt (T1)	28.7	Pass

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
						Bolt Checks	81.9	Pass
						RATING =	**81.9**	**Pass**

Additional Calculations

POD
POWER OF DESIGN

POD Job #
Site Number
Site Name

Anchor Rod Checks Per TIA-222-G

Reactions for tnxTower

Compression/Pier	269.000	kips
Shear with Compression	26.000	kips
Tension/Pier	232.000	kips
Shear with Tension	23.000	kips

Anchor Rod Capacity	46.0%

Anchor Rod Information

Anchor Rod Grade =	A687		
Number of Anchor Rods =	6		
Diameter of Anchor Rod, d =	1.25	in	
Connection Detail Type =	***d***		
η =	0.5		
l_{ar}=	1	in	
Is lar >d?	No	-->	No Moment Check Required
F_{ub}=	150	ksi	
A_n=	0.969	in^2	
A_b=	1.227	in^2	
d_{rt}=	1.11	in	
ϕR_{nt} =	116.3	kip	(Per TIA-222-G, Section 4.9.6.1)
P_u =	44.8	kip	
V_u =	4.3	kip	

Anchor Rod Interaction Check

Interaction Capacity:	46.0%	*OK*	(Per TIA-222-G, Section 4.9.9)

Ver 1.0- 3/2/2020

POD
POWER OF DESIGN

POD Job #	
Site Number	
Site Name	

General Info

Code	TIA-222-G
Bearing On	Soil
Foundation Type	SS Pad
Pier Type	Round
Reinforcing Known	No

Bearing	*39.3%*
Overturning	*48.1%*

Tower Reactions

Moment, M	4353	k-ft
Axial, P	52	k
Shear, V	38	k

Pad & Pier Geometry

Pier Diameter, ø	5	ft
Pad Length, L	28.5	ft
Pad Width, W	28.5	ft
Pad Thickness, t	2.75	ft
Total Depth below Grade, D	6	ft
Height Above Grade, HG	0.5	ft

Pad & Pier Reinforcing

Rebar Fy	60	ksi
Concrete Fc'	3	ksi
Clear Cover	3	in
Reinforced Top & Bottom?	Yes	
Pad Reinforcing Size	# 9	
Pad Quantity Per Layer	35	
Pier Rebar Size	# 8	
Pier Quantity of Rebar	18	

Soil Properties

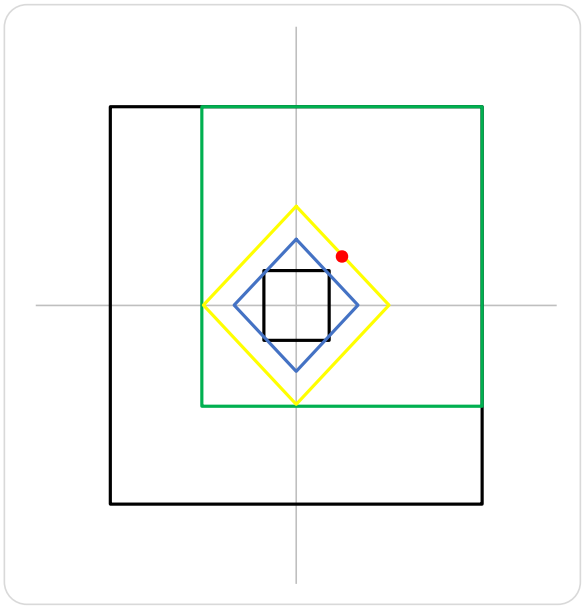
Soil Type	Granular	
Soil Unit Weight	110	pcf
Angle of Friction, ø	25	°
Bearing Type	Gross	
Ultimate Bearing	6	ksf
Water Table Depth	99	ft
Frost Depth	2	ft

Bearing Summary

			Load Case
Qxmax	1.58	ksf	1.2D+1.6W
Qymax	1.58	ksf	1.2D+1.6W
Qmax @ 45°	1.77	ksf	1.2D+1.6W
Q(all)	4.50	ksf	
Controlling Capacity	39.30%		

Overturning Summary

			Load Case
FS(ot)x	2.08	≥1.0	0.9D+1.6W
FS(ot)y	2.08	≥1.0	0.9D+1.6W
Controlling Capacity	48.10%		



Appendix A – Mount Analysis by Others

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 #: 10044578
Maser Consulting Connecticut Project #: 21777230A

May 3, 2021

Site Information	*Site ID:*	*467801-VZW / EAST HARTLAND CT*
	Site Name:	*EAST HARTLAND CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*22 Welsh Road* *East Hartland, Connecticut 06027* *Hartford County*
	Latitude:	*41.997522°*
	Longitude:	*-72.887733°*
Structure Information	*Tower Type:*	*Self Support*
	Mount Type:	*12.50-Ft Sector Frame*

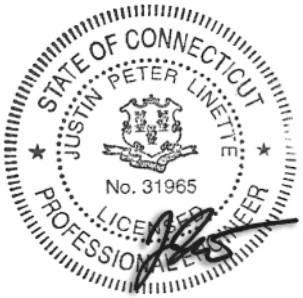
FUZE ID # 16272387

Analysis Results

Sector Frame: **69.2% Pass**

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

Report Prepared By: Andy Hanes



Digitally signed by Justin Linette
Date: 2021.05.04 16:43:34-04'00'

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: 674885, dated March 19, 2021*
Mount Mapping Report	*Roaming Networks Inc., Site ID: PSLC:467801, dated March 30, 2021*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}:	115 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.50 in
	Risk Category:	II
	Exposure Category:	B
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	0.962
Seismic Parameters:	S_S:	0.167
	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 mounts:

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
168.00	168.00	3	Samsung	MT6407-77A	Added
		6	Antel	LPA-80080/6CF	Retained
		6	Commscope	NHH-65B-R2B	
		1	Raycap	RRFDC-6627-PF-48*	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	

* Equipment is flush mounted directly to the self support tower. They are not mounted on sector frame mounts and are not included in this mount analysis.

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

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

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	47.8%	Pass
Standoff Plates	42.0%	Pass
Standoff Horizontal	38.0%	Pass
Standoff Bracing	68.5%	Pass
Face Horizontal	56.0%	Pass
Mount Pipe	22.0%	Pass
Stabilizer	9.0%	Pass

Structure Rating – *(Controlling Utilization of all Components)*	**68.5%**

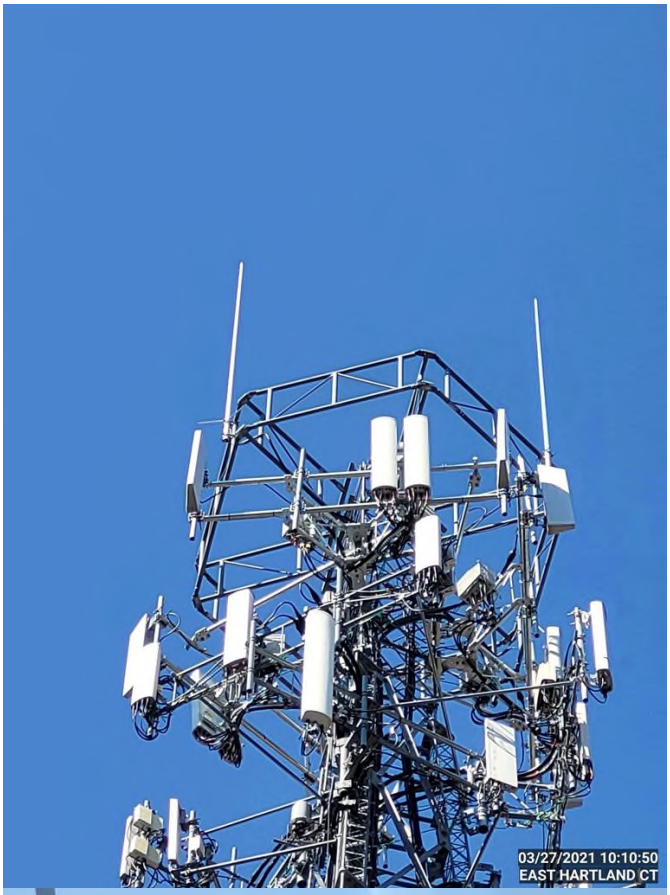
Recommendation:

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

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

Attachments:

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


03/27/2021 11:48:58
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EAST HARTLAND CT

V3.0 Updated on 8-31-2020

PAUL J. FORD & COMPANY

Antenna Mount Mapping Form (PATENT PENDING)

FCC #
N/A

Tower Owner:	OTHER	**Mapping Date:**	3/30/2021
Site Name:	EAST HARTLAND CT	**Tower Type:**	Self Support
Site Number or ID:	PSLC 467801	**Tower Height (Ft.):**	N/A
Mapping Contractor:	Roaming Networks Inc.	**Mount Elevation (Ft.):**	170.5

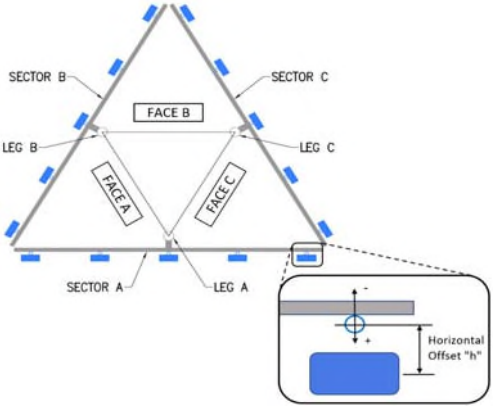
Mount Pipe Configuration and Geometries [Unit = Inches]

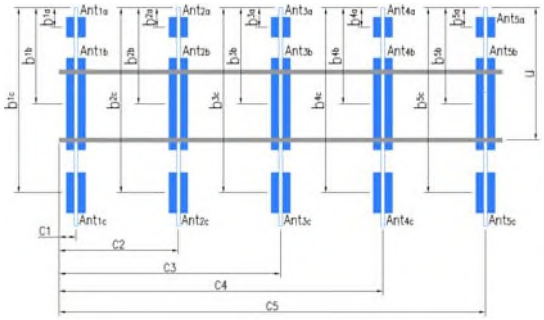
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	PIPE 2.4"Ø X 0.15" X 98" LONG	67.00	3.00	C1	PIPE 2.4"Ø X 0.15" X 98" LONG	67.00	3.00
A2	PIPE 2.4"Ø X 0.15" X 98" LONG	67.00	51.00	C2	PIPE 2.4"Ø X 0.15" X 98" LONG	67.00	51.00
A3	PIPE 2.4"Ø X 0.15" X 98" LONG	69.00	100.00	C3	PIPE 2.4"Ø X 0.15" X 98" LONG	69.00	100.00
A4	PIPE 2.4"Ø X 0.15" X 98" LONG	69.00	147.00	C4	PIPE 2.4"Ø X 0.15" X 98" LONG	69.00	147.00
A5				C5			
A6				C6			
B1	PIPE 2.4"Ø X 0.15" X 98" LONG	67.00	3.00	D1			
B2	PIPE 2.4"Ø X 0.15" X 98" LONG	67.00	51.00	D2			
B3	PIPE 2.4"Ø X 0.15" X 98" LONG	69.00	100.00	D3			
B4	PIPE 2.4"Ø X 0.15" X 98" LONG	69.00	147.00	D4			
B5				D5			
B6				D6			

Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :	20.00
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :	8.5
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :	

Please enter additional infomation or comments below.

Tower Face Width at Mount Elev. (ft.):	4	Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):	1.59



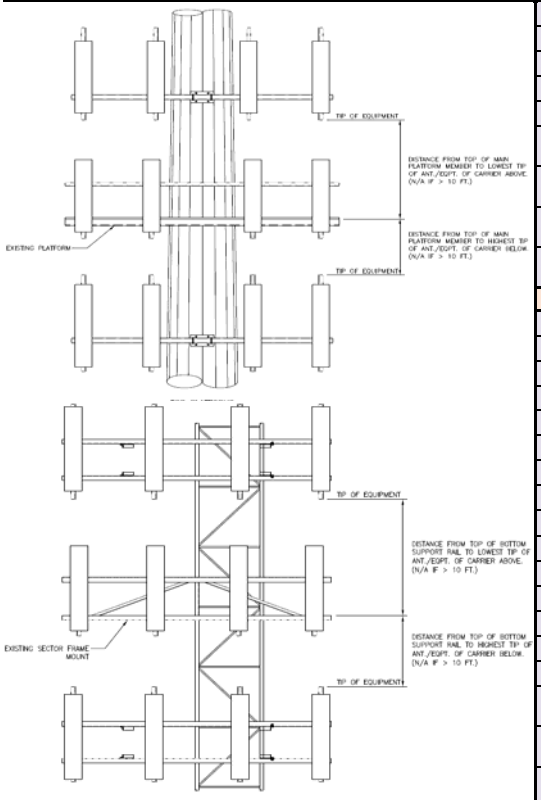


Antenna Layout (Looking Out From Tower)

Ants. Items	Enter antenna model. If not labeled, enter "Unknown". Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Mounting Locations [Units are inches and degrees] Vertical Distances"b_{1a}, b_{2a}, b_{3a}, b_{1b}...." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photos of antennas Photo Numbers
Sector A										
Ant_{1a}	Unknow	6.00	13.00	70.00		170.25	50.00	14.00	3.00	7,8,9
Ant_{1b}										
Ant_{1c}										
Ant_{2a}	NHH-65B-R2B	11.85	7.09	71.97		170.333	49.00	10.00	3.00	10
Ant_{2b}	NHH-65B-R2B	11.85	7.09	71.97		170.333	49.00	10.00	3.00	11
Ant_{2c}										
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}	Unknow	6.00	13.00	70.00		171	43.00	14.00	3.00	4,5,6
Ant_{4b}										
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff	RFV01U-D1A	15.00	10.00	15.00				15.00		12
Ant on Standoff	RFV01U-D2A	15.00	10.00	15.00				11.00		13
Ant on Tower										
Ant on Tower										

Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector	
Sector A:	3.00	Deg	Leg A:	89.00	Deg
Sector B:	78.00	Deg	Leg B:	209.00	Deg
Sector C:	204.00	Deg	Leg C:	329.00	Deg
Sector D:		Deg	Leg D:		Deg

Climbing Facility Information		
Location:	258.00 Deg	Sector B
Climbing Facility	Corrosion Type:	Good condition.
	Access:	Climbing path was unobstructed.
	Condition:	Good condition.



Sector B										
Ant_{1a}	Unknow	6.00	13.00	70.00		170.25	50.00	14.00	78.00	7,8,9
Ant_{1b}										
Ant_{1c}										
Ant_{2a}	NHH-65B-R2B	11.85	7.09	71.97		170.333	49.00	10.00	78.00	10
Ant_{2b}	NHH-65B-R2B	11.85	7.09	71.97		170.333	49.00	10.00	78.00	11
Ant_{2c}										
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}	Unknow	6.00	13.00	70.00		171	43.00	14.00	78.00	4,5,6
Ant_{4b}										
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff	RFV01U-D1A	15.00	10.00	15.00				15.00		12
Ant on Standoff	RFV01U-D2A	15.00	10.00	15.00				11.00		13
Ant on Tower										
Ant on Tower										
Sector C										
Ant_{1a}	Unknow	6.00	13.00	70.00		170.25	50.00	14.00	204.00	7,8,9
Ant_{1b}										
Ant_{1c}										
Ant_{2a}	NHH-65B-R2B	11.85	7.09	71.97		170.333	49.00	10.00	204.00	10
Ant_{2b}	NHH-65B-R2B	11.85	7.09	71.97		170.333	49.00	10.00	204.00	11
Ant_{2c}										
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}	Unknow	6.00	13.00	70.00		171	43.00	14.00	204.00	4,5,6
Ant_{4b}										
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff	RFV01U-D1A	15.00	10.00	15.00				15.00		12
Ant on Standoff	RFV01U-D2A	15.00	10.00	15.00				11.00		13
Ant on Tower										
Ant on Tower										
Sector D										
Ant_{1a}										
Ant_{1b}										
Ant_{1c}										
Ant_{2a}										
Ant_{2b}										
Ant_{2c}										
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}										
Ant_{4b}										
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Observed Safety and Structural Issues During the Mount Mapping		
Issue #	Description of Issue	Photo #

1		
2		
3		
4		
5		
6		
7		
8		

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

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

V3.0 Updated on 8-31-2020

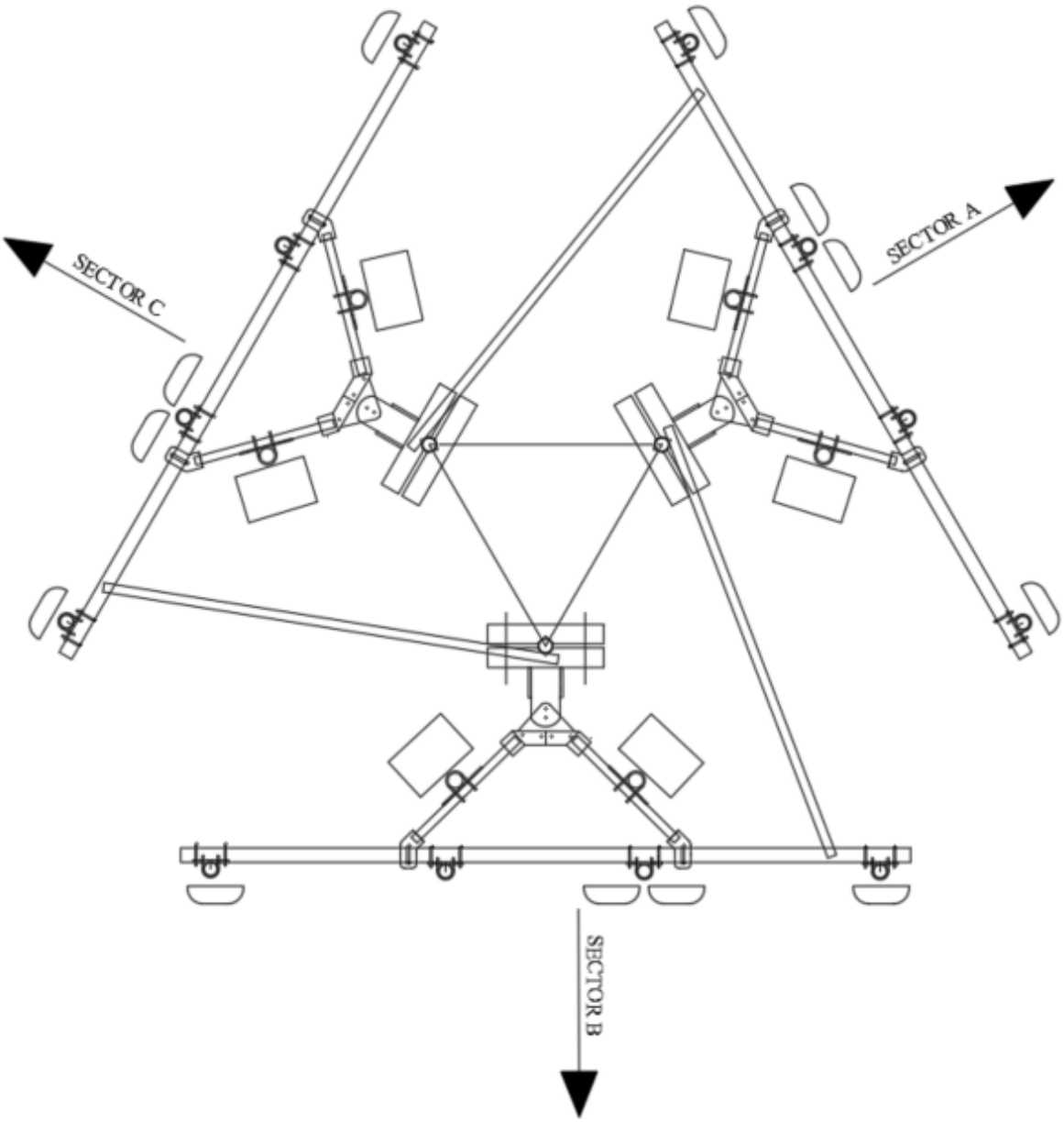
PAUL J. FORD & COMPANY

Antenna Mount Mapping Form (PATENT PENDING)

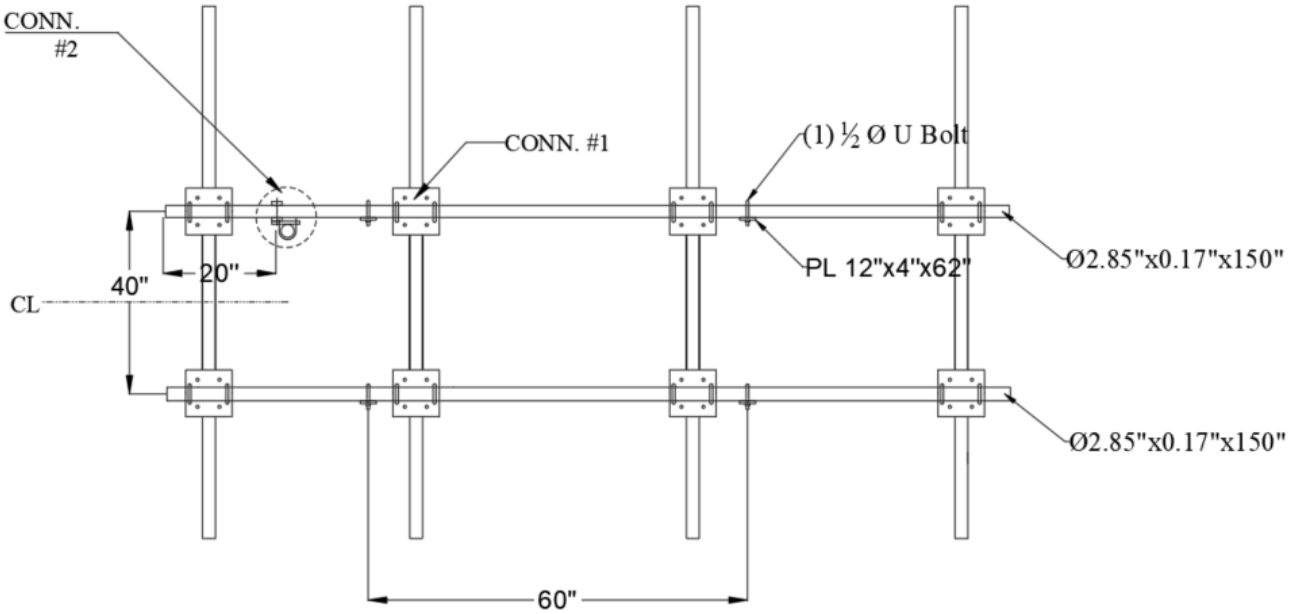
FCC #
N/A

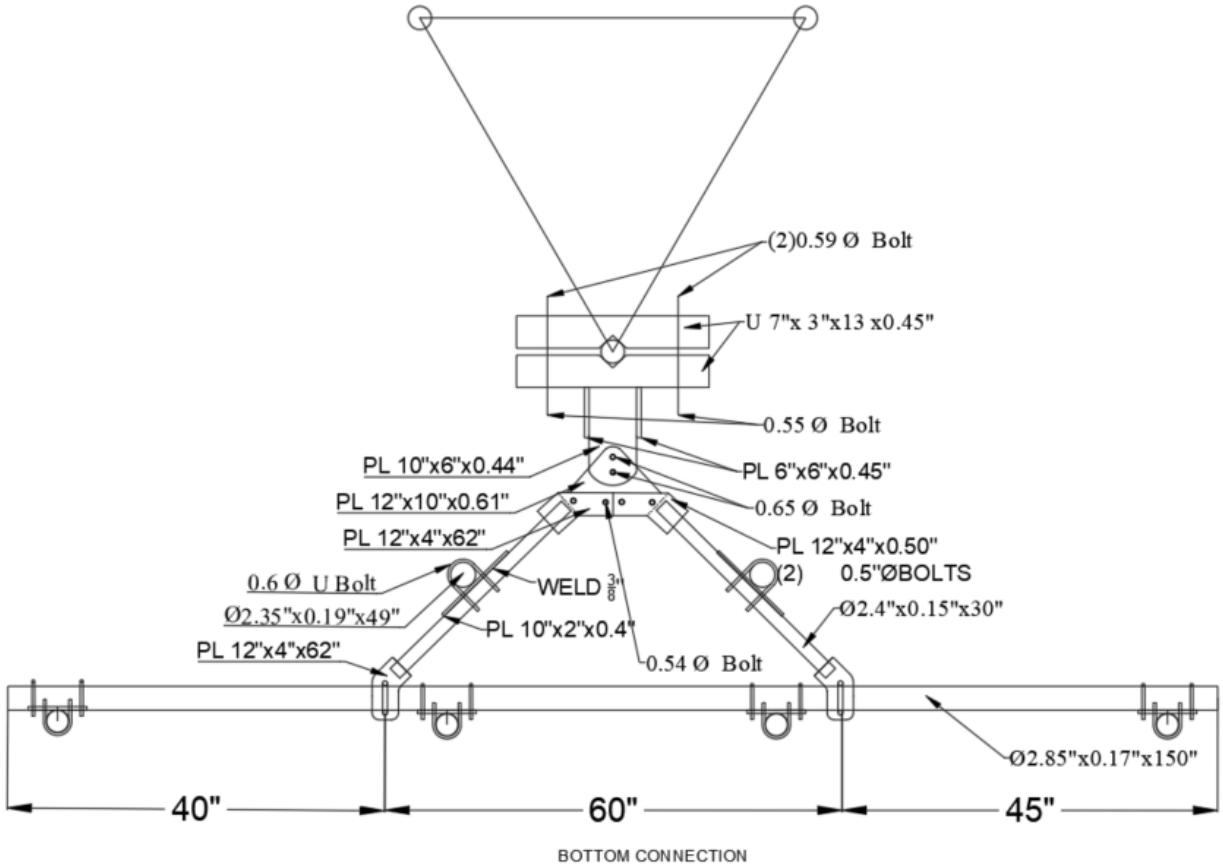
Tower Owner:	OTHER	**Mapping Date:**	3/30/2021
Site Name:	EAST HARTLAND CT	**Tower Type:**	Self Support
Site Number or ID:	PSLC 467801	**Tower Height (Ft.):**	N/A
Mapping Contractor:	Roaming Networks Inc.	**Mount Elevation (Ft.):**	170.5

Please Insert Sketches of the Antenna Mount



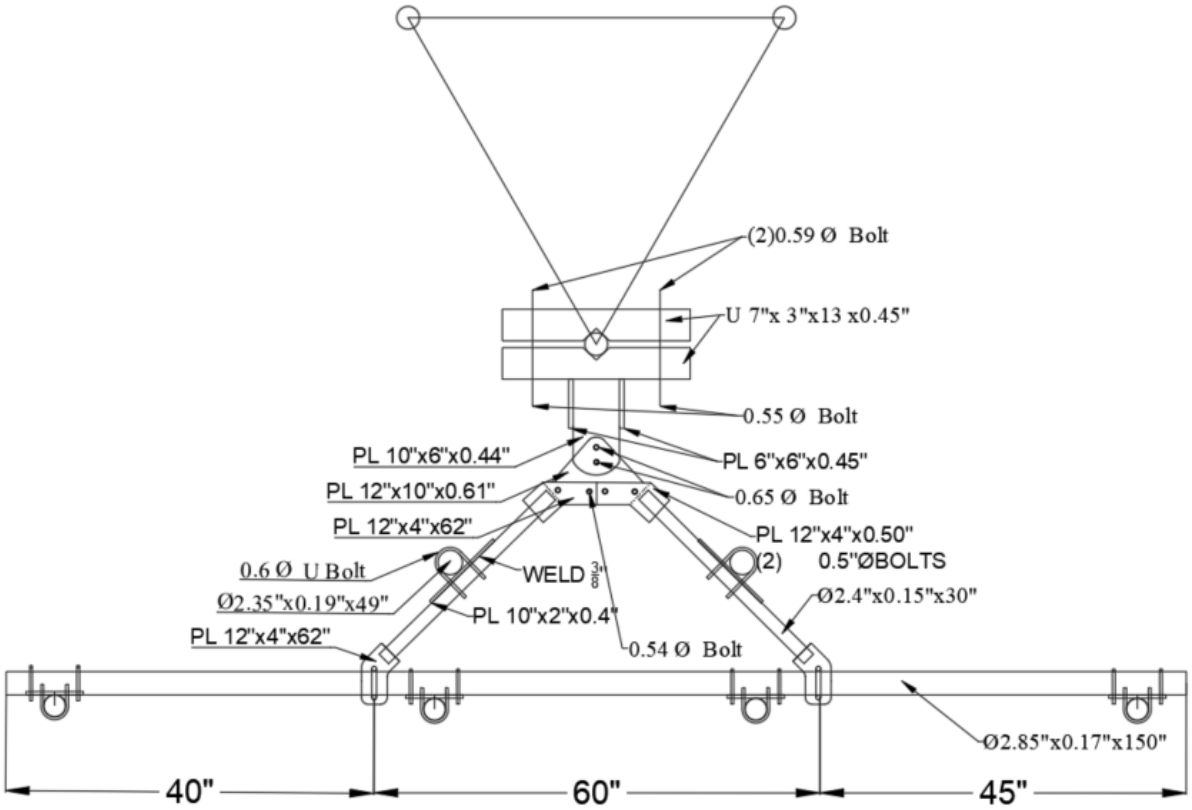
Please Insert Sketches of the Antenna Mount, cont'd

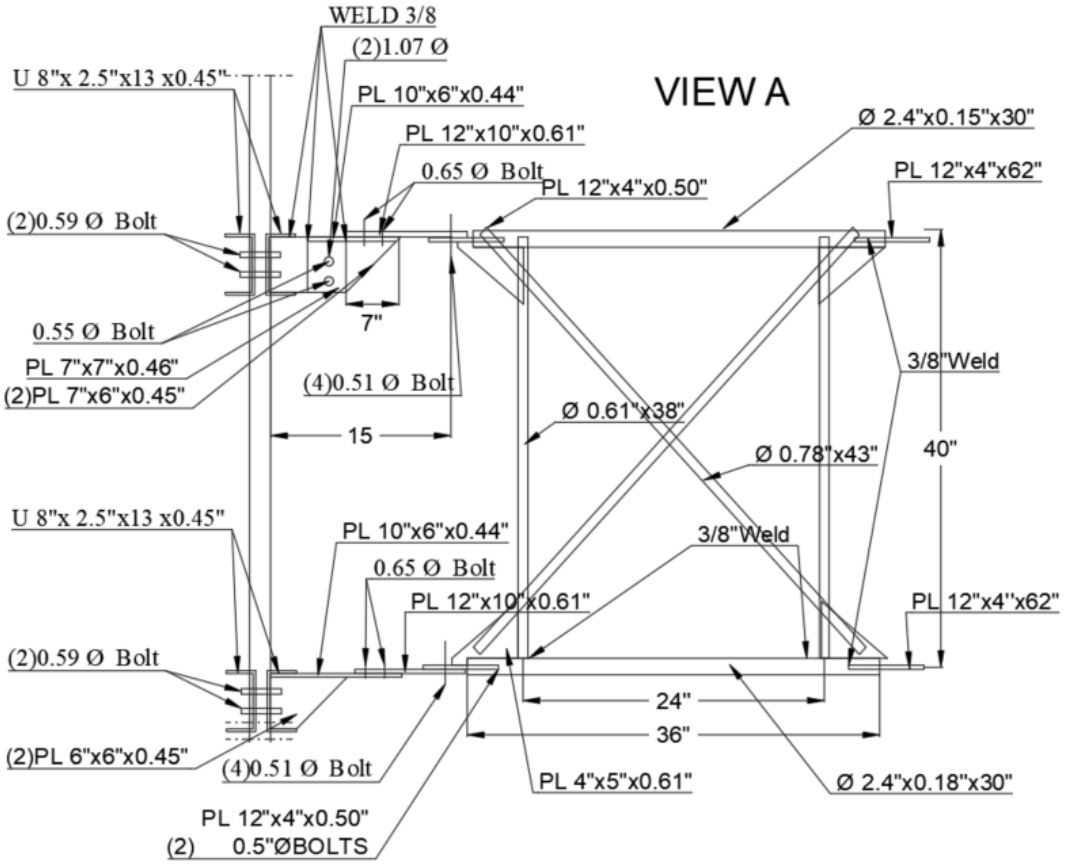




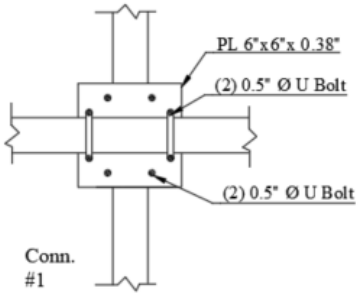
BOTTOM CONNECTION

Please Insert Sketches of the Antenna Mount, cont'd

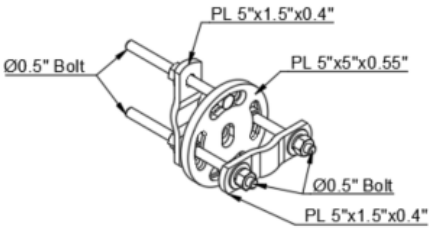




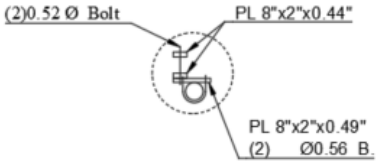
Please Insert Sketches of the Antenna Mount, cont'd



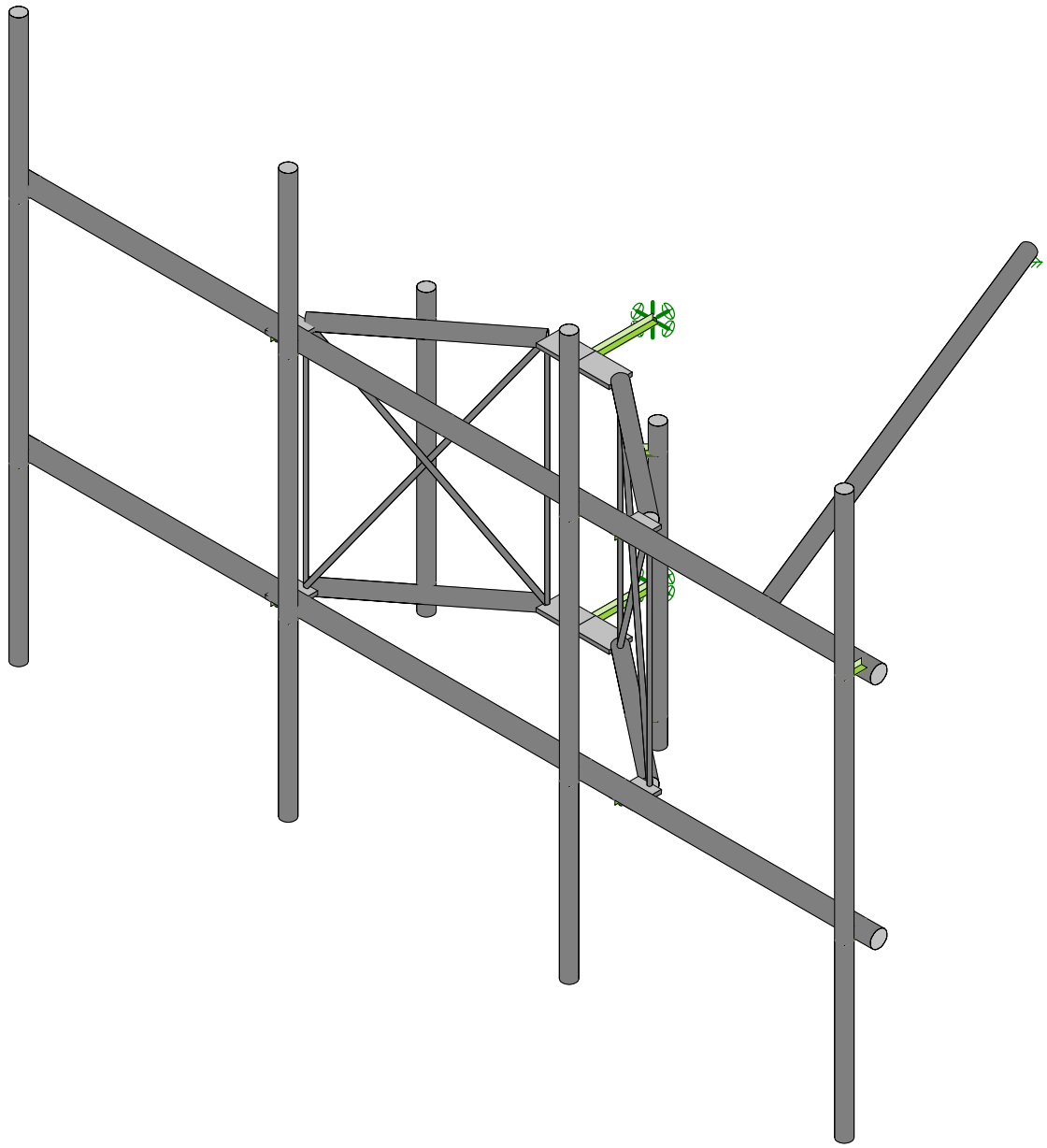
Conn.
#1



CONN.
#3

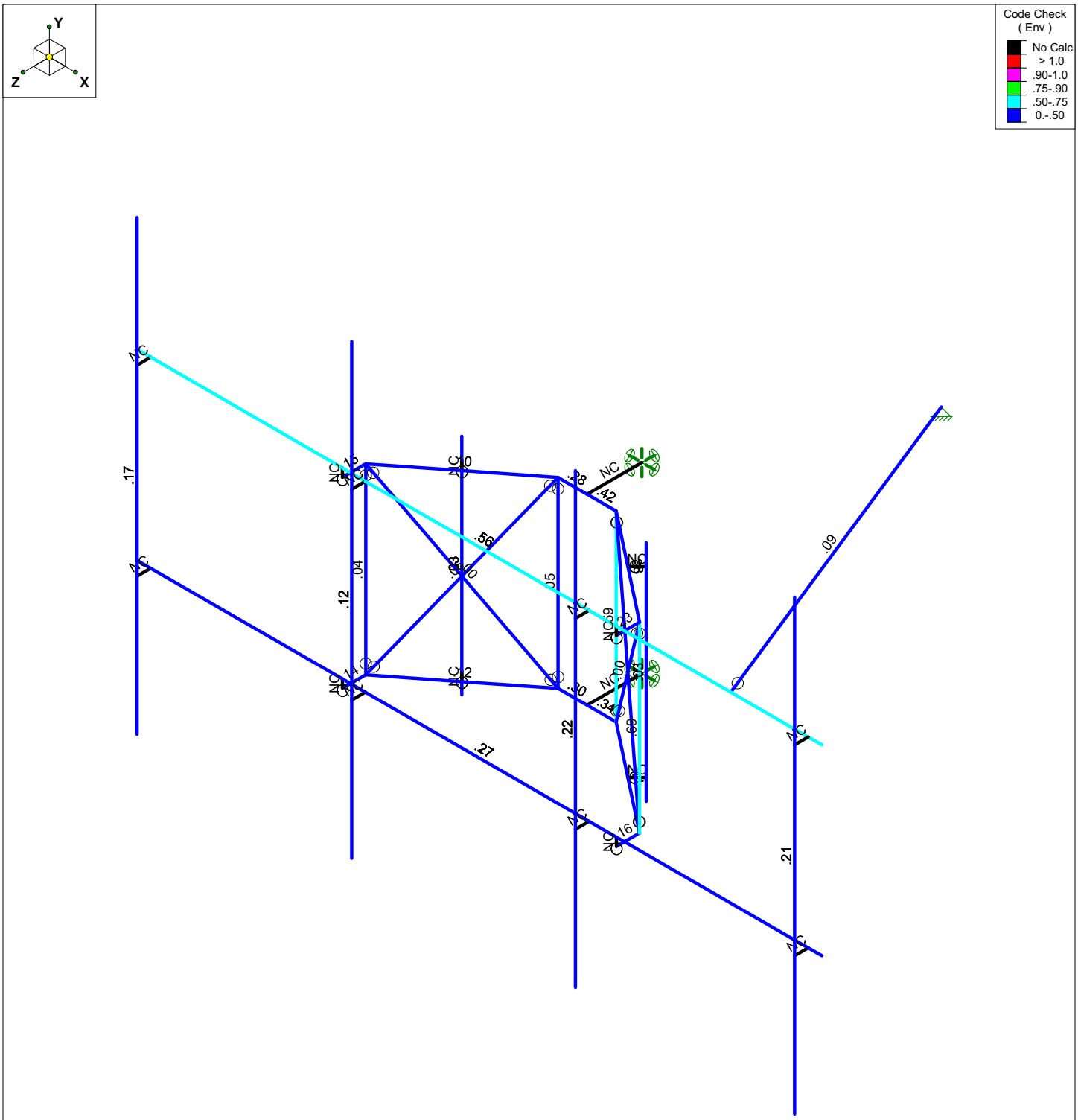


CONN.
#2



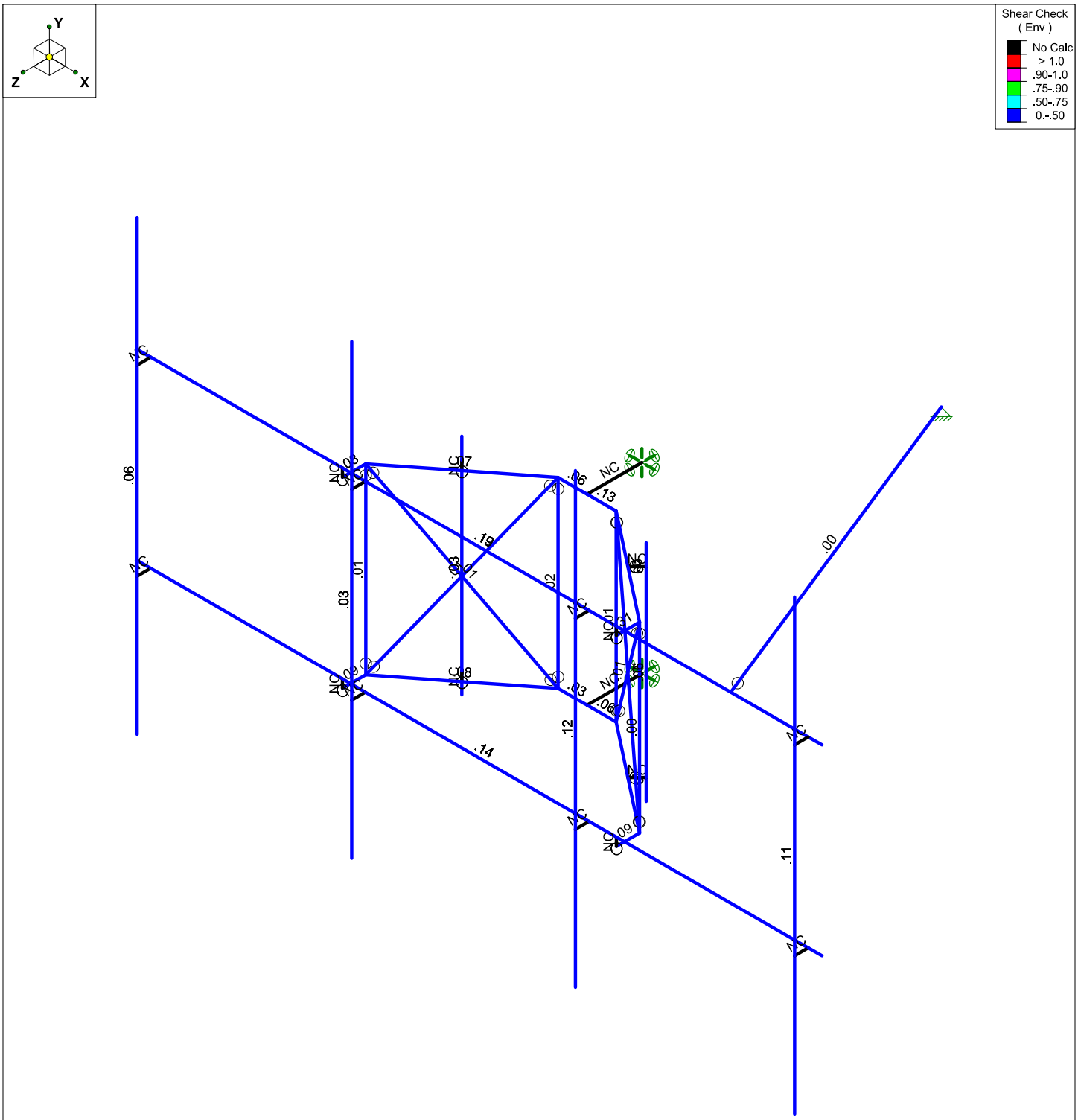
Envelope Only Solution

		SK - 1
		Apr 30, 2021 at 5:58 PM
		467801-VZW_MT_LOT_A_H.r3d



Member Code Checks Displayed (Enveloped)
Loads: BLC 81,
Envelope Only Solution

		SK - 1
		May 3, 2021 at 4:38 PM
		467801-VZW_MT_LOT_A_H.r3d



Member Shear Checks Displayed (Enveloped)
Loads: BLC 81,
Envelope Only Solution

		SK - 2
		May 3, 2021 at 4:39 PM
		467801-VZW_MT_LOT_A_H.r3d

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
1	Antenna D	None					36			
2	Antenna Di	None					36			
3	Antenna Wo (0 Deg)	None					36			
4	Antenna Wo (30 Deg)	None					36			
5	Antenna Wo (60 Deg)	None					36			
6	Antenna Wo (90 Deg)	None					36			
7	Antenna Wo (120 Deg)	None					36			
8	Antenna Wo (150 Deg)	None					36			
9	Antenna Wo (180 Deg)	None					36			
10	Antenna Wo (210 Deg)	None					36			
11	Antenna Wo (240 Deg)	None					36			
12	Antenna Wo (270 Deg)	None					36			
13	Antenna Wo (300 Deg)	None					36			
14	Antenna Wo (330 Deg)	None					36			
15	Antenna Wi (0 Deg)	None					36			
16	Antenna Wi (30 Deg)	None					36			
17	Antenna Wi (60 Deg)	None					36			
18	Antenna Wi (90 Deg)	None					36			
19	Antenna Wi (120 Deg)	None					36			
20	Antenna Wi (150 Deg)	None					36			
21	Antenna Wi (180 Deg)	None					36			
22	Antenna Wi (210 Deg)	None					36			
23	Antenna Wi (240 Deg)	None					36			
24	Antenna Wi (270 Deg)	None					36			
25	Antenna Wi (300 Deg)	None					36			
26	Antenna Wi (330 Deg)	None					36			
27	Antenna Wm (0 Deg)	None					36			
28	Antenna Wm (30 Deg)	None					36			
29	Antenna Wm (60 Deg)	None					36			
30	Antenna Wm (90 Deg)	None					36			
31	Antenna Wm (120 Deg)	None					36			
32	Antenna Wm (150 Deg)	None					36			
33	Antenna Wm (180 Deg)	None					36			
34	Antenna Wm (210 Deg)	None					36			
35	Antenna Wm (240 Deg)	None					36			
36	Antenna Wm (270 Deg)	None					36			
37	Antenna Wm (300 Deg)	None					36			
38	Antenna Wm (330 Deg)	None					36			
39	Structure D	None		-1						
40	Structure Di	None						29		
41	Structure Wo (0 Deg)	None						58		
42	Structure Wo (30 Deg)	None						58		
43	Structure Wo (60 Deg)	None						58		
44	Structure Wo (90 Deg)	None						58		
45	Structure Wo (120 D...	None						58		
46	Structure Wo (150 D...	None						58		
47	Structure Wo (180 D...	None						58		
48	Structure Wo (210 D...	None						58		
49	Structure Wo (240 D...	None						58		
50	Structure Wo (270 D...	None						58		
51	Structure Wo (300 D...	None						58		
52	Structure Wo (330 D...	None						58		
53	Structure Wi (0 Deg)	None						58		
54	Structure Wi (30 Deg)	None						58		
55	Structure Wi (60 Deg)	None						58		
56	Structure Wi (90 Deg)	None						58		

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

Load Combinations

	Description	So...	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 (120...	Yes	Y		1	1.2	39	1.2	7	1	45	1												
6	1.2D+1.0Wo (150...	Yes	Y		1	1.2	39	1.2	8	1	46	1												
7	1.2D+1.0Wo (180...	Yes	Y		1	1.2	39	1.2	9	1	47	1												
8	1.2D+1.0Wo (210...	Yes	Y		1	1.2	39	1.2	10	1	48	1												
9	1.2D+1.0Wo (240...	Yes	Y		1	1.2	39	1.2	11	1	49	1												
10	1.2D+1.0Wo (270...	Yes	Y		1	1.2	39	1.2	12	1	50	1												
11	1.2D+1.0Wo (300...	Yes	Y		1	1.2	39	1.2	13	1	51	1												
12	1.2D+1.0Wo (330...	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										
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										

Load Combinations (Continued)

	Description	So...	P...	S...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...
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	N1	3.416667	0.145833	8.083333	0	
2	N2	-9.083333	0.145833	8.083333	0	
3	N3	3.416667	3.479167	8.083333	0	
4	N4	-9.083333	3.479167	8.083333	0	
5	N21	-5.333333	0	8.083333	0	
6	N22	-5.333333	3.333333	8.083333	0	
7	N23	-0.333333	0	8.083333	0	
8	N24	-0.333333	3.333333	8.083333	0	
9	N25	-5.333333	0	7.661458	0	
10	N26	-5.333333	3.333333	7.661458	0	
11	N27	-0.333333	0	7.661458	0	
12	N28	-0.333333	3.333333	7.661458	0	
13	N29	-2.833333	0	6.119792	0	
14	N30	-2.833333	3.333333	6.119792	0	
15	N31	-3.364583	0	6.119792	0	
16	N32	-3.364583	3.333333	6.119792	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
17	N33	-2.302083	0	6.119792	0	
18	N34	-2.302083	3.333333	6.119792	0	
19	N35	-2.833333	0	5.119792	0	
20	N36	-2.833333	3.333333	5.119792	0	
21	N58	-5.333333	3.333333	7.708333	0	
22	N76	-2.927083	0	6.119792	0	
23	N77	-3.229167	0	6.119792	0	
24	N78	-2.739583	0	6.119792	0	
25	N79	-2.4375	0	6.119792	0	
26	N80	-2.927083	3.333333	6.119792	0	
27	N81	-3.229167	3.333333	6.119792	0	
28	N82	-2.739583	3.333333	6.119792	0	
29	N83	-2.4375	3.333333	6.119792	0	
30	N58A	-2.833333	3.479167	8.083333	0	
31	N59	-5.333333	0.145833	8.083333	0	
32	N60	-5.333333	3.479167	8.083333	0	
33	N61	-0.333333	0.145833	8.083333	0	
34	N62	-0.333333	3.479167	8.083333	0	
35	N35A	3.166667	0.145833	8.083333	0	
36	N36A	3.166667	3.479167	8.083333	0	
37	N37	3.166667	0.145833	8.333333	0	
38	N38	3.166667	3.479167	8.333333	0	
39	N39	3.166667	5.8125	8.333333	0	
40	N40	3.166667	-2.354167	8.333333	0	
41	N41	-0.833333	0.145833	8.083333	0	
42	N42	-0.833333	3.479167	8.083333	0	
43	N43	-0.833333	0.145833	8.333333	0	
44	N44	-0.833333	3.479167	8.333333	0	
45	N45	-0.833333	5.8125	8.333333	0	
46	N46	-0.833333	-2.354167	8.333333	0	
47	N47	-4.916667	0.145833	8.083333	0	
48	N48	-4.916667	3.479167	8.083333	0	
49	N49	-4.916667	0.145833	8.333333	0	
50	N50	-4.916667	3.479167	8.333333	0	
51	N51	-4.916667	5.8125	8.333333	0	
52	N52	-4.916667	-2.354167	8.333333	0	
53	N53	-8.833333	0.145833	8.083333	0	
54	N54	-8.833333	3.479167	8.083333	0	
55	N55	-8.833333	0.145833	8.333333	0	
56	N56	-8.833333	3.479167	8.333333	0	
57	N57	-8.833333	5.8125	8.333333	0	
58	N58B	-8.833333	-2.354167	8.333333	0	
59	N59A	-4.348958	3.333333	6.890625	0	
60	N60A	-4.348958	0	6.890625	0	
61	N61A	-4.515625	3.333333	6.723958	0	
62	N62A	-4.515625	0	6.723958	0	
63	N63	-4.515625	3.708333	6.723958	0	
64	N64	-4.515625	-.375	6.723958	0	
65	N66	-1.317708	3.333333	6.890625	0	
66	N67	-1.317708	0	6.890625	0	
67	N68	-1.151042	3.333333	6.723958	0	
68	N69	-1.151042	0	6.723958	0	
69	N70	-1.151042	3.708333	6.723958	0	
70	N71	-1.151042	-.375	6.723958	0	
71	N71A	-0.833333	3.479167	1.65569	0	
72	N72	1.75	3.479167	8.083333	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rul...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Antenna Pipe	PIPE_2.0	Column	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Horizontal mount pipe	PIPE_2.5	Beam	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
3	Standoff Horizontal	PIPE_2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
4	Standoff Diagonal	SR_0.75	Column	BAR	A36 Gr.36	Typical	.442	.016	.016	.031
5	Tieback	PIPE_2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
6	Standoff Vertical	SR_0.625	Column	BAR	A36 Gr.36	Typical	.307	.007	.007	.015
7	Standoff Plate	PL5/8X4	Beam	BAR	A36 Gr.36	Typical	2.5	.081	3.333	.293

Hot Rolled Steel Properties

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N2	N1			Horizontal mou...	Beam	Pipe	A53 Gr. B	Typical
2	M2	N4	N3			Horizontal mou...	Beam	Pipe	A53 Gr. B	Typical
3	M13	N22	N26		90	Standoff Plate	Beam	BAR	A36 Gr.36	Typical
4	M14	N21	N25		90	Standoff Plate	Beam	BAR	A36 Gr.36	Typical
5	M15	N23	N27		90	Standoff Plate	Beam	BAR	A36 Gr.36	Typical
6	M16	N24	N28		90	Standoff Plate	Beam	BAR	A36 Gr.36	Typical
7	M17	N26	N32			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
8	M18	N25	N31			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
9	M19	N27	N33			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
10	M20	N28	N34			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
11	M21	N32	N30		90	Standoff Plate	Beam	BAR	A36 Gr.36	Typical
12	M22	N34	N30		90	Standoff Plate	Beam	BAR	A36 Gr.36	Typical
13	M23	N31	N29		90	Standoff Plate	Beam	BAR	A36 Gr.36	Typical
14	M24	N33	N29		90	Standoff Plate	Beam	BAR	A36 Gr.36	Typical
15	M25	N31	N26			Standoff Diago...	Column	BAR	A36 Gr.36	Typical
16	M26	N32	N25			Standoff Diago...	Column	BAR	A36 Gr.36	Typical
17	M27	N33	N28			Standoff Diago...	Column	BAR	A36 Gr.36	Typical
18	M28	N27	N34			Standoff Diago...	Column	BAR	A36 Gr.36	Typical
19	M29	N29	N35			RIGID	None	None	RIGID	Typical
20	M30	N30	N36			RIGID	None	None	RIGID	Typical
21	M44	N25	N26			Standoff Vertical	Column	BAR	A36 Gr.36	Typical
22	M45	N31	N32			Standoff Vertical	Column	BAR	A36 Gr.36	Typical
23	M46	N33	N34			Standoff Vertical	Column	BAR	A36 Gr.36	Typical
24	M47	N27	N28			Standoff Vertical	Column	BAR	A36 Gr.36	Typical
25	M47B	N22	N60			RIGID	None	None	RIGID	Typical
26	M48A	N21	N59			RIGID	None	None	RIGID	Typical
27	M49A	N24	N62			RIGID	None	None	RIGID	Typical
28	M50A	N23	N61			RIGID	None	None	RIGID	Typical
29	M51A	N30	N36			RIGID	None	None	RIGID	Typical
30	M52A	N29	N35			RIGID	None	None	RIGID	Typical
31	M31	N36A	N38			RIGID	None	None	RIGID	Typical
32	M32	N35A	N37			RIGID	None	None	RIGID	Typical
33	MP1A	N39	N40			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
34	M34	N42	N44			RIGID	None	None	RIGID	Typical
35	M35	N41	N43			RIGID	None	None	RIGID	Typical
36	MP2A	N45	N46			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
37	M37	N48	N50			RIGID	None	None	RIGID	Typical
38	M38	N47	N49			RIGID	None	None	RIGID	Typical
39	MP3A	N51	N52			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
40	M40	N54	N56			RIGID	None	None	RIGID	Typical
41	M41	N53	N55			RIGID	None	None	RIGID	Typical
42	MP4A	N57	N58B			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
43	M43	N59A	N61A			RIGID	None	None	RIGID	Typical
44	M44A	N60A	N62A			RIGID	None	None	RIGID	Typical
45	M45A	N63	N64			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
46	M46A	N66	N68			RIGID	None	None	RIGID	Typical
47	M47A	N67	N69			RIGID	None	None	RIGID	Typical
48	M48	N70	N71			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
49	M49	N71A	N72			Tieback	Beam	Pipe	A53 Gr. B	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes				None
2	M2						Yes				None
3	M13						Yes	Default			None
4	M14						Yes	Default			None
5	M15						Yes				None
6	M16						Yes				None
7	M17						Yes	Default			None
8	M18						Yes				None
9	M19						Yes				None
10	M20						Yes	Default			None
11	M21						Yes	Default			None
12	M22						Yes				None
13	M23						Yes				None
14	M24						Yes				None
15	M25	BenPIN	BenPIN			Euler Buc...	Yes	** NA **			None
16	M26	BenPIN	BenPIN			Euler Buc...	Yes	** NA **			None
17	M27	BenPIN	BenPIN			Euler Buc...	Yes	** NA **			None
18	M28	BenPIN	BenPIN			Euler Buc...	Yes	** NA **			None
19	M29						Yes	** NA **		Inactive	None
20	M30						Yes	** NA **		Inactive	None
21	M44	BenPIN	BenPIN				Yes	** NA **			None
22	M45	BenPIN	BenPIN				Yes	** NA **			None
23	M46	BenPIN	BenPIN				Yes	** NA **			None
24	M47	BenPIN	BenPIN				Yes	** NA **			None
25	M47B		OOOXOO				Yes	** NA **			None
26	M48A		OOOXOO				Yes	** NA **			None
27	M49A		OOOXOO				Yes	** NA **			None
28	M50A		OOOXOO				Yes	** NA **			None
29	M51A						Yes	** NA **			None
30	M52A						Yes	** NA **			None
31	M31						Yes	** NA **			None
32	M32						Yes	** NA **			None
33	MP1A						Yes	** NA **			None
34	M34						Yes	** NA **			None
35	M35						Yes	** NA **			None
36	MP2A						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...
37	M37						Yes	** NA **			None
38	M38						Yes	** NA **			None
39	MP3A						Yes	** NA **			None
40	M40						Yes	** NA **			None
41	M41						Yes	** NA **			None
42	MP4A						Yes	** NA **			None
43	M43		OOOXOO				Yes	** NA **			None
44	M44A		OOOXOO				Yes	** NA **			None
45	M45A						Yes	** NA **			None
46	M46A		OOOXOO				Yes	** NA **			None
47	M47A		OOOXOO				Yes	** NA **			None
48	M48						Yes	** NA **			None
49	M49		BenPIN				Yes	Default			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	Y	-43.55	3
2	MP3A	My	-.022	3
3	MP3A	Mz	0	3
4	MP3A	Y	-43.55	5
5	MP3A	My	-.022	5
6	MP3A	Mz	0	5
7	MP1A	Y	-10.5	1.5
8	MP1A	My	-.005	1.5
9	MP1A	Mz	0	1.5
10	MP1A	Y	-10.5	6.5
11	MP1A	My	-.005	6.5
12	MP1A	Mz	0	6.5
13	MP4A	Y	-10.5	1.5
14	MP4A	My	-.005	1.5
15	MP4A	Mz	0	1.5
16	MP4A	Y	-10.5	6.5
17	MP4A	My	-.005	6.5
18	MP4A	Mz	0	6.5
19	MP2A	Y	-21.85	2
20	MP2A	My	-.011	2
21	MP2A	Mz	.013	2
22	MP2A	Y	-21.85	6
23	MP2A	My	-.011	6
24	MP2A	Mz	.013	6
25	MP2A	Y	-21.85	2
26	MP2A	My	-.011	2
27	MP2A	Mz	-.013	2
28	MP2A	Y	-21.85	6
29	MP2A	My	-.011	6
30	MP2A	Mz	-.013	6
31	M45A	Y	-84.4	2
32	M45A	My	0	2
33	M45A	Mz	0	2
34	M48	Y	-70.3	2
35	M48	My	0	2
36	M48	Mz	0	2

Member Point Loads (BLC 2 : Antenna Di)

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	Y	-57.8	3
2	MP3A	My	-.029	3
3	MP3A	Mz	0	3
4	MP3A	Y	-57.8	5
5	MP3A	My	-.029	5
6	MP3A	Mz	0	5
7	MP1A	Y	-94.578	1.5
8	MP1A	My	-.047	1.5
9	MP1A	Mz	0	1.5
10	MP1A	Y	-94.578	6.5
11	MP1A	My	-.047	6.5
12	MP1A	Mz	0	6.5
13	MP4A	Y	-94.578	1.5
14	MP4A	My	-.047	1.5
15	MP4A	Mz	0	1.5
16	MP4A	Y	-94.578	6.5
17	MP4A	My	-.047	6.5
18	MP4A	Mz	0	6.5
19	MP2A	Y	-97.892	2
20	MP2A	My	-.049	2
21	MP2A	Mz	.057	2
22	MP2A	Y	-97.892	6
23	MP2A	My	-.049	6
24	MP2A	Mz	.057	6
25	MP2A	Y	-97.892	2
26	MP2A	My	-.049	2
27	MP2A	Mz	-.057	2
28	MP2A	Y	-97.892	6
29	MP2A	My	-.049	6
30	MP2A	Mz	-.057	6
31	M45A	Y	-73.497	2
32	M45A	My	0	2
33	M45A	Mz	0	2
34	M48	Y	-66.373	2
35	M48	My	0	2
36	M48	Mz	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	3
2	MP3A	Z	-75.01	3
3	MP3A	Mx	0	3
4	MP3A	X	0	5
5	MP3A	Z	-75.01	5
6	MP3A	Mx	0	5
7	MP1A	X	0	1.5
8	MP1A	Z	-69.105	1.5
9	MP1A	Mx	0	1.5
10	MP1A	X	0	6.5
11	MP1A	Z	-69.105	6.5
12	MP1A	Mx	0	6.5
13	MP4A	X	0	1.5
14	MP4A	Z	-69.105	1.5
15	MP4A	Mx	0	1.5
16	MP4A	X	0	6.5
17	MP4A	Z	-69.105	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP4A	Mx	0	6.5
19	MP2A	X	0	2
20	MP2A	Z	-128.953	2
21	MP2A	Mx	-.075	2
22	MP2A	X	0	6
23	MP2A	Z	-128.953	6
24	MP2A	Mx	-.075	6
25	MP2A	X	0	2
26	MP2A	Z	-128.953	2
27	MP2A	Mx	.075	2
28	MP2A	X	0	6
29	MP2A	Z	-128.953	6
30	MP2A	Mx	.075	6
31	M45A	X	0	2
32	M45A	Z	-39.899	2
33	M45A	Mx	0	2
34	M48	X	0	2
35	M48	Z	-32.318	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	31.799	3
2	MP3A	Z	-55.078	3
3	MP3A	Mx	-.016	3
4	MP3A	X	31.799	5
5	MP3A	Z	-55.078	5
6	MP3A	Mx	-.016	5
7	MP1A	X	43.127	1.5
8	MP1A	Z	-74.699	1.5
9	MP1A	Mx	-.022	1.5
10	MP1A	X	43.127	6.5
11	MP1A	Z	-74.699	6.5
12	MP1A	Mx	-.022	6.5
13	MP4A	X	43.127	1.5
14	MP4A	Z	-74.699	1.5
15	MP4A	Mx	-.022	1.5
16	MP4A	X	43.127	6.5
17	MP4A	Z	-74.699	6.5
18	MP4A	Mx	-.022	6.5
19	MP2A	X	59.014	2
20	MP2A	Z	-102.214	2
21	MP2A	Mx	-.089	2
22	MP2A	X	59.014	6
23	MP2A	Z	-102.214	6
24	MP2A	Mx	-.089	6
25	MP2A	X	59.014	2
26	MP2A	Z	-102.214	2
27	MP2A	Mx	.03	2
28	MP2A	X	59.014	6
29	MP2A	Z	-102.214	6
30	MP2A	Mx	.03	6
31	M45A	X	22.423	2
32	M45A	Z	-38.838	2
33	M45A	Mx	0	2
34	M48	X	19.58	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	M48	Z	-33.914	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	35.314	3
2	MP3A	Z	-20.388	3
3	MP3A	Mx	-.018	3
4	MP3A	X	35.314	5
5	MP3A	Z	-20.388	5
6	MP3A	Mx	-.018	5
7	MP1A	X	104.403	1.5
8	MP1A	Z	-60.277	1.5
9	MP1A	Mx	-.052	1.5
10	MP1A	X	104.403	6.5
11	MP1A	Z	-60.277	6.5
12	MP1A	Mx	-.052	6.5
13	MP4A	X	104.403	1.5
14	MP4A	Z	-60.277	1.5
15	MP4A	Mx	-.052	1.5
16	MP4A	X	104.403	6.5
17	MP4A	Z	-60.277	6.5
18	MP4A	Mx	-.052	6.5
19	MP2A	X	83.291	2
20	MP2A	Z	-48.088	2
21	MP2A	Mx	-.07	2
22	MP2A	X	83.291	6
23	MP2A	Z	-48.088	6
24	MP2A	Mx	-.07	6
25	MP2A	X	83.291	2
26	MP2A	Z	-48.088	2
27	MP2A	Mx	-.014	2
28	MP2A	X	83.291	6
29	MP2A	Z	-48.088	6
30	MP2A	Mx	-.014	6
31	M45A	X	47.407	2
32	M45A	Z	-27.371	2
33	M45A	Mx	0	2
34	M48	X	45.766	2
35	M48	Z	-26.423	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	29.366	3
2	MP3A	Z	0	3
3	MP3A	Mx	-.015	3
4	MP3A	X	29.366	5
5	MP3A	Z	0	5
6	MP3A	Mx	-.015	5
7	MP1A	X	137.704	1.5
8	MP1A	Z	0	1.5
9	MP1A	Mx	-.069	1.5
10	MP1A	X	137.704	6.5
11	MP1A	Z	0	6.5
12	MP1A	Mx	-.069	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP4A	X	137.704	1.5
14	MP4A	Z	0	1.5
15	MP4A	Mx	-.069	1.5
16	MP4A	X	137.704	6.5
17	MP4A	Z	0	6.5
18	MP4A	Mx	-.069	6.5
19	MP2A	X	85.25	2
20	MP2A	Z	0	2
21	MP2A	Mx	-.043	2
22	MP2A	X	85.25	6
23	MP2A	Z	0	6
24	MP2A	Mx	-.043	6
25	MP2A	X	85.25	2
26	MP2A	Z	0	2
27	MP2A	Mx	-.043	2
28	MP2A	X	85.25	6
29	MP2A	Z	0	6
30	MP2A	Mx	-.043	6
31	M45A	X	59.688	2
32	M45A	Z	0	2
33	M45A	Mx	0	2
34	M48	X	59.688	2
35	M48	Z	0	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	35.314	3
2	MP3A	Z	20.388	3
3	MP3A	Mx	-.018	3
4	MP3A	X	35.314	5
5	MP3A	Z	20.388	5
6	MP3A	Mx	-.018	5
7	MP1A	X	104.403	1.5
8	MP1A	Z	60.277	1.5
9	MP1A	Mx	-.052	1.5
10	MP1A	X	104.403	6.5
11	MP1A	Z	60.277	6.5
12	MP1A	Mx	-.052	6.5
13	MP4A	X	104.403	1.5
14	MP4A	Z	60.277	1.5
15	MP4A	Mx	-.052	1.5
16	MP4A	X	104.403	6.5
17	MP4A	Z	60.277	6.5
18	MP4A	Mx	-.052	6.5
19	MP2A	X	83.291	2
20	MP2A	Z	48.088	2
21	MP2A	Mx	-.014	2
22	MP2A	X	83.291	6
23	MP2A	Z	48.088	6
24	MP2A	Mx	-.014	6
25	MP2A	X	83.291	2
26	MP2A	Z	48.088	2
27	MP2A	Mx	-.07	2
28	MP2A	X	83.291	6
29	MP2A	Z	48.088	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP2A	Mx	-.07	6
31	M45A	X	47.407	2
32	M45A	Z	27.371	2
33	M45A	Mx	0	2
34	M48	X	45.766	2
35	M48	Z	26.423	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	31.799	3
2	MP3A	Z	55.078	3
3	MP3A	Mx	-.016	3
4	MP3A	X	31.799	5
5	MP3A	Z	55.078	5
6	MP3A	Mx	-.016	5
7	MP1A	X	43.127	1.5
8	MP1A	Z	74.699	1.5
9	MP1A	Mx	-.022	1.5
10	MP1A	X	43.127	6.5
11	MP1A	Z	74.699	6.5
12	MP1A	Mx	-.022	6.5
13	MP4A	X	43.127	1.5
14	MP4A	Z	74.699	1.5
15	MP4A	Mx	-.022	1.5
16	MP4A	X	43.127	6.5
17	MP4A	Z	74.699	6.5
18	MP4A	Mx	-.022	6.5
19	MP2A	X	59.014	2
20	MP2A	Z	102.214	2
21	MP2A	Mx	.03	2
22	MP2A	X	59.014	6
23	MP2A	Z	102.214	6
24	MP2A	Mx	.03	6
25	MP2A	X	59.014	2
26	MP2A	Z	102.214	2
27	MP2A	Mx	-.089	2
28	MP2A	X	59.014	6
29	MP2A	Z	102.214	6
30	MP2A	Mx	-.089	6
31	M45A	X	22.423	2
32	M45A	Z	38.838	2
33	M45A	Mx	0	2
34	M48	X	19.58	2
35	M48	Z	33.914	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	3
2	MP3A	Z	75.01	3
3	MP3A	Mx	0	3
4	MP3A	X	0	5
5	MP3A	Z	75.01	5
6	MP3A	Mx	0	5
7	MP1A	X	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP1A	Z	69.105	1.5
9	MP1A	Mx	0	1.5
10	MP1A	X	0	6.5
11	MP1A	Z	69.105	6.5
12	MP1A	Mx	0	6.5
13	MP4A	X	0	1.5
14	MP4A	Z	69.105	1.5
15	MP4A	Mx	0	1.5
16	MP4A	X	0	6.5
17	MP4A	Z	69.105	6.5
18	MP4A	Mx	0	6.5
19	MP2A	X	0	2
20	MP2A	Z	128.953	2
21	MP2A	Mx	.075	2
22	MP2A	X	0	6
23	MP2A	Z	128.953	6
24	MP2A	Mx	.075	6
25	MP2A	X	0	2
26	MP2A	Z	128.953	2
27	MP2A	Mx	-.075	2
28	MP2A	X	0	6
29	MP2A	Z	128.953	6
30	MP2A	Mx	-.075	6
31	M45A	X	0	2
32	M45A	Z	39.899	2
33	M45A	Mx	0	2
34	M48	X	0	2
35	M48	Z	32.318	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-31.799	3
2	MP3A	Z	55.078	3
3	MP3A	Mx	.016	3
4	MP3A	X	-31.799	5
5	MP3A	Z	55.078	5
6	MP3A	Mx	.016	5
7	MP1A	X	-43.127	1.5
8	MP1A	Z	74.699	1.5
9	MP1A	Mx	.022	1.5
10	MP1A	X	-43.127	6.5
11	MP1A	Z	74.699	6.5
12	MP1A	Mx	.022	6.5
13	MP4A	X	-43.127	1.5
14	MP4A	Z	74.699	1.5
15	MP4A	Mx	.022	1.5
16	MP4A	X	-43.127	6.5
17	MP4A	Z	74.699	6.5
18	MP4A	Mx	.022	6.5
19	MP2A	X	-59.014	2
20	MP2A	Z	102.214	2
21	MP2A	Mx	.089	2
22	MP2A	X	-59.014	6
23	MP2A	Z	102.214	6
24	MP2A	Mx	.089	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP2A	X	-59.014	2
26	MP2A	Z	102.214	2
27	MP2A	Mx	-.03	2
28	MP2A	X	-59.014	6
29	MP2A	Z	102.214	6
30	MP2A	Mx	-.03	6
31	M45A	X	-22.423	2
32	M45A	Z	38.838	2
33	M45A	Mx	0	2
34	M48	X	-19.58	2
35	M48	Z	33.914	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-35.314	3
2	MP3A	Z	20.388	3
3	MP3A	Mx	.018	3
4	MP3A	X	-35.314	5
5	MP3A	Z	20.388	5
6	MP3A	Mx	.018	5
7	MP1A	X	-104.403	1.5
8	MP1A	Z	60.277	1.5
9	MP1A	Mx	.052	1.5
10	MP1A	X	-104.403	6.5
11	MP1A	Z	60.277	6.5
12	MP1A	Mx	.052	6.5
13	MP4A	X	-104.403	1.5
14	MP4A	Z	60.277	1.5
15	MP4A	Mx	.052	1.5
16	MP4A	X	-104.403	6.5
17	MP4A	Z	60.277	6.5
18	MP4A	Mx	.052	6.5
19	MP2A	X	-83.291	2
20	MP2A	Z	48.088	2
21	MP2A	Mx	.07	2
22	MP2A	X	-83.291	6
23	MP2A	Z	48.088	6
24	MP2A	Mx	.07	6
25	MP2A	X	-83.291	2
26	MP2A	Z	48.088	2
27	MP2A	Mx	.014	2
28	MP2A	X	-83.291	6
29	MP2A	Z	48.088	6
30	MP2A	Mx	.014	6
31	M45A	X	-47.407	2
32	M45A	Z	27.371	2
33	M45A	Mx	0	2
34	M48	X	-45.766	2
35	M48	Z	26.423	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-29.366	3
2	MP3A	Z	0	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
3	MP3A	Mx	.015	3
4	MP3A	X	-29.366	5
5	MP3A	Z	0	5
6	MP3A	Mx	.015	5
7	MP1A	X	-137.704	1.5
8	MP1A	Z	0	1.5
9	MP1A	Mx	.069	1.5
10	MP1A	X	-137.704	6.5
11	MP1A	Z	0	6.5
12	MP1A	Mx	.069	6.5
13	MP4A	X	-137.704	1.5
14	MP4A	Z	0	1.5
15	MP4A	Mx	.069	1.5
16	MP4A	X	-137.704	6.5
17	MP4A	Z	0	6.5
18	MP4A	Mx	.069	6.5
19	MP2A	X	-85.25	2
20	MP2A	Z	0	2
21	MP2A	Mx	.043	2
22	MP2A	X	-85.25	6
23	MP2A	Z	0	6
24	MP2A	Mx	.043	6
25	MP2A	X	-85.25	2
26	MP2A	Z	0	2
27	MP2A	Mx	.043	2
28	MP2A	X	-85.25	6
29	MP2A	Z	0	6
30	MP2A	Mx	.043	6
31	M45A	X	-59.688	2
32	M45A	Z	0	2
33	M45A	Mx	0	2
34	M48	X	-59.688	2
35	M48	Z	0	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-35.314	3
2	MP3A	Z	-20.388	3
3	MP3A	Mx	.018	3
4	MP3A	X	-35.314	5
5	MP3A	Z	-20.388	5
6	MP3A	Mx	.018	5
7	MP1A	X	-104.403	1.5
8	MP1A	Z	-60.277	1.5
9	MP1A	Mx	.052	1.5
10	MP1A	X	-104.403	6.5
11	MP1A	Z	-60.277	6.5
12	MP1A	Mx	.052	6.5
13	MP4A	X	-104.403	1.5
14	MP4A	Z	-60.277	1.5
15	MP4A	Mx	.052	1.5
16	MP4A	X	-104.403	6.5
17	MP4A	Z	-60.277	6.5
18	MP4A	Mx	.052	6.5
19	MP2A	X	-83.291	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
20	MP2A	Z	-48.088	2
21	MP2A	Mx	.014	2
22	MP2A	X	-83.291	6
23	MP2A	Z	-48.088	6
24	MP2A	Mx	.014	6
25	MP2A	X	-83.291	2
26	MP2A	Z	-48.088	2
27	MP2A	Mx	.07	2
28	MP2A	X	-83.291	6
29	MP2A	Z	-48.088	6
30	MP2A	Mx	.07	6
31	M45A	X	-47.407	2
32	M45A	Z	-27.371	2
33	M45A	Mx	0	2
34	M48	X	-45.766	2
35	M48	Z	-26.423	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-31.799	3
2	MP3A	Z	-55.078	3
3	MP3A	Mx	.016	3
4	MP3A	X	-31.799	5
5	MP3A	Z	-55.078	5
6	MP3A	Mx	.016	5
7	MP1A	X	-43.127	1.5
8	MP1A	Z	-74.699	1.5
9	MP1A	Mx	.022	1.5
10	MP1A	X	-43.127	6.5
11	MP1A	Z	-74.699	6.5
12	MP1A	Mx	.022	6.5
13	MP4A	X	-43.127	1.5
14	MP4A	Z	-74.699	1.5
15	MP4A	Mx	.022	1.5
16	MP4A	X	-43.127	6.5
17	MP4A	Z	-74.699	6.5
18	MP4A	Mx	.022	6.5
19	MP2A	X	-59.014	2
20	MP2A	Z	-102.214	2
21	MP2A	Mx	-.03	2
22	MP2A	X	-59.014	6
23	MP2A	Z	-102.214	6
24	MP2A	Mx	-.03	6
25	MP2A	X	-59.014	2
26	MP2A	Z	-102.214	2
27	MP2A	Mx	.089	2
28	MP2A	X	-59.014	6
29	MP2A	Z	-102.214	6
30	MP2A	Mx	.089	6
31	M45A	X	-22.423	2
32	M45A	Z	-38.838	2
33	M45A	Mx	0	2
34	M48	X	-19.58	2
35	M48	Z	-33.914	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	3
2	MP3A	Z	-17.041	3
3	MP3A	Mx	0	3
4	MP3A	X	0	5
5	MP3A	Z	-17.041	5
6	MP3A	Mx	0	5
7	MP1A	X	0	1.5
8	MP1A	Z	-16.669	1.5
9	MP1A	Mx	0	1.5
10	MP1A	X	0	6.5
11	MP1A	Z	-16.669	6.5
12	MP1A	Mx	0	6.5
13	MP4A	X	0	1.5
14	MP4A	Z	-16.669	1.5
15	MP4A	Mx	0	1.5
16	MP4A	X	0	6.5
17	MP4A	Z	-16.669	6.5
18	MP4A	Mx	0	6.5
19	MP2A	X	0	2
20	MP2A	Z	-28.322	2
21	MP2A	Mx	-.017	2
22	MP2A	X	0	6
23	MP2A	Z	-28.322	6
24	MP2A	Mx	-.017	6
25	MP2A	X	0	2
26	MP2A	Z	-28.322	2
27	MP2A	Mx	.017	2
28	MP2A	X	0	6
29	MP2A	Z	-28.322	6
30	MP2A	Mx	.017	6
31	M45A	X	0	2
32	M45A	Z	-10.496	2
33	M45A	Mx	0	2
34	M48	X	0	2
35	M48	Z	-8.867	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	7.339	3
2	MP3A	Z	-12.711	3
3	MP3A	Mx	-.004	3
4	MP3A	X	7.339	5
5	MP3A	Z	-12.711	5
6	MP3A	Mx	-.004	5
7	MP1A	X	10.006	1.5
8	MP1A	Z	-17.331	1.5
9	MP1A	Mx	-.005	1.5
10	MP1A	X	10.006	6.5
11	MP1A	Z	-17.331	6.5
12	MP1A	Mx	-.005	6.5
13	MP4A	X	10.006	1.5
14	MP4A	Z	-17.331	1.5
15	MP4A	Mx	-.005	1.5
16	MP4A	X	10.006	6.5
17	MP4A	Z	-17.331	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP4A	Mx	-.005	6.5
19	MP2A	X	13.113	2
20	MP2A	Z	-22.712	2
21	MP2A	Mx	-.02	2
22	MP2A	X	13.113	6
23	MP2A	Z	-22.712	6
24	MP2A	Mx	-.02	6
25	MP2A	X	13.113	2
26	MP2A	Z	-22.712	2
27	MP2A	Mx	.007	2
28	MP2A	X	13.113	6
29	MP2A	Z	-22.712	6
30	MP2A	Mx	.007	6
31	M45A	X	5.784	2
32	M45A	Z	-10.019	2
33	M45A	Mx	0	2
34	M48	X	5.173	2
35	M48	Z	-8.96	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	8.617	3
2	MP3A	Z	-4.975	3
3	MP3A	Mx	-.004	3
4	MP3A	X	8.617	5
5	MP3A	Z	-4.975	5
6	MP3A	Mx	-.004	5
7	MP1A	X	23.123	1.5
8	MP1A	Z	-13.35	1.5
9	MP1A	Mx	-.012	1.5
10	MP1A	X	23.123	6.5
11	MP1A	Z	-13.35	6.5
12	MP1A	Mx	-.012	6.5
13	MP4A	X	23.123	1.5
14	MP4A	Z	-13.35	1.5
15	MP4A	Mx	-.012	1.5
16	MP4A	X	23.123	6.5
17	MP4A	Z	-13.35	6.5
18	MP4A	Mx	-.012	6.5
19	MP2A	X	19.08	2
20	MP2A	Z	-11.016	2
21	MP2A	Mx	-.016	2
22	MP2A	X	19.08	6
23	MP2A	Z	-11.016	6
24	MP2A	Mx	-.016	6
25	MP2A	X	19.08	2
26	MP2A	Z	-11.016	2
27	MP2A	Mx	-.003	2
28	MP2A	X	19.08	6
29	MP2A	Z	-11.016	6
30	MP2A	Mx	-.003	6
31	M45A	X	11.876	2
32	M45A	Z	-6.857	2
33	M45A	Mx	0	2
34	M48	X	11.523	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	M48	Z	-6.653	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	7.587	3
2	MP3A	Z	0	3
3	MP3A	Mx	-.004	3
4	MP3A	X	7.587	5
5	MP3A	Z	0	5
6	MP3A	Mx	-.004	5
7	MP1A	X	30.045	1.5
8	MP1A	Z	0	1.5
9	MP1A	Mx	-.015	1.5
10	MP1A	X	30.045	6.5
11	MP1A	Z	0	6.5
12	MP1A	Mx	-.015	6.5
13	MP4A	X	30.045	1.5
14	MP4A	Z	0	1.5
15	MP4A	Mx	-.015	1.5
16	MP4A	X	30.045	6.5
17	MP4A	Z	0	6.5
18	MP4A	Mx	-.015	6.5
19	MP2A	X	19.935	2
20	MP2A	Z	0	2
21	MP2A	Mx	-.01	2
22	MP2A	X	19.935	6
23	MP2A	Z	0	6
24	MP2A	Mx	-.01	6
25	MP2A	X	19.935	2
26	MP2A	Z	0	2
27	MP2A	Mx	-.01	2
28	MP2A	X	19.935	6
29	MP2A	Z	0	6
30	MP2A	Mx	-.01	6
31	M45A	X	14.785	2
32	M45A	Z	0	2
33	M45A	Mx	0	2
34	M48	X	14.785	2
35	M48	Z	0	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	8.617	3
2	MP3A	Z	4.975	3
3	MP3A	Mx	-.004	3
4	MP3A	X	8.617	5
5	MP3A	Z	4.975	5
6	MP3A	Mx	-.004	5
7	MP1A	X	23.123	1.5
8	MP1A	Z	13.35	1.5
9	MP1A	Mx	-.012	1.5
10	MP1A	X	23.123	6.5
11	MP1A	Z	13.35	6.5
12	MP1A	Mx	-.012	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP4A	X	23.123	1.5
14	MP4A	Z	13.35	1.5
15	MP4A	Mx	-.012	1.5
16	MP4A	X	23.123	6.5
17	MP4A	Z	13.35	6.5
18	MP4A	Mx	-.012	6.5
19	MP2A	X	19.08	2
20	MP2A	Z	11.016	2
21	MP2A	Mx	-.003	2
22	MP2A	X	19.08	6
23	MP2A	Z	11.016	6
24	MP2A	Mx	-.003	6
25	MP2A	X	19.08	2
26	MP2A	Z	11.016	2
27	MP2A	Mx	-.016	2
28	MP2A	X	19.08	6
29	MP2A	Z	11.016	6
30	MP2A	Mx	-.016	6
31	M45A	X	11.876	2
32	M45A	Z	6.857	2
33	M45A	Mx	0	2
34	M48	X	11.523	2
35	M48	Z	6.653	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	7.339	3
2	MP3A	Z	12.711	3
3	MP3A	Mx	-.004	3
4	MP3A	X	7.339	5
5	MP3A	Z	12.711	5
6	MP3A	Mx	-.004	5
7	MP1A	X	10.006	1.5
8	MP1A	Z	17.331	1.5
9	MP1A	Mx	-.005	1.5
10	MP1A	X	10.006	6.5
11	MP1A	Z	17.331	6.5
12	MP1A	Mx	-.005	6.5
13	MP4A	X	10.006	1.5
14	MP4A	Z	17.331	1.5
15	MP4A	Mx	-.005	1.5
16	MP4A	X	10.006	6.5
17	MP4A	Z	17.331	6.5
18	MP4A	Mx	-.005	6.5
19	MP2A	X	13.113	2
20	MP2A	Z	22.712	2
21	MP2A	Mx	.007	2
22	MP2A	X	13.113	6
23	MP2A	Z	22.712	6
24	MP2A	Mx	.007	6
25	MP2A	X	13.113	2
26	MP2A	Z	22.712	2
27	MP2A	Mx	-.02	2
28	MP2A	X	13.113	6
29	MP2A	Z	22.712	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP2A	Mx	-.02	6
31	M45A	X	5.784	2
32	M45A	Z	10.019	2
33	M45A	Mx	0	2
34	M48	X	5.173	2
35	M48	Z	8.96	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	3
2	MP3A	Z	17.041	3
3	MP3A	Mx	0	3
4	MP3A	X	0	5
5	MP3A	Z	17.041	5
6	MP3A	Mx	0	5
7	MP1A	X	0	1.5
8	MP1A	Z	16.669	1.5
9	MP1A	Mx	0	1.5
10	MP1A	X	0	6.5
11	MP1A	Z	16.669	6.5
12	MP1A	Mx	0	6.5
13	MP4A	X	0	1.5
14	MP4A	Z	16.669	1.5
15	MP4A	Mx	0	1.5
16	MP4A	X	0	6.5
17	MP4A	Z	16.669	6.5
18	MP4A	Mx	0	6.5
19	MP2A	X	0	2
20	MP2A	Z	28.322	2
21	MP2A	Mx	.017	2
22	MP2A	X	0	6
23	MP2A	Z	28.322	6
24	MP2A	Mx	.017	6
25	MP2A	X	0	2
26	MP2A	Z	28.322	2
27	MP2A	Mx	-.017	2
28	MP2A	X	0	6
29	MP2A	Z	28.322	6
30	MP2A	Mx	-.017	6
31	M45A	X	0	2
32	M45A	Z	10.496	2
33	M45A	Mx	0	2
34	M48	X	0	2
35	M48	Z	8.867	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-7.339	3
2	MP3A	Z	12.711	3
3	MP3A	Mx	.004	3
4	MP3A	X	-7.339	5
5	MP3A	Z	12.711	5
6	MP3A	Mx	.004	5
7	MP1A	X	-10.006	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP1A	Z	17.331	1.5
9	MP1A	Mx	.005	1.5
10	MP1A	X	-10.006	6.5
11	MP1A	Z	17.331	6.5
12	MP1A	Mx	.005	6.5
13	MP4A	X	-10.006	1.5
14	MP4A	Z	17.331	1.5
15	MP4A	Mx	.005	1.5
16	MP4A	X	-10.006	6.5
17	MP4A	Z	17.331	6.5
18	MP4A	Mx	.005	6.5
19	MP2A	X	-13.113	2
20	MP2A	Z	22.712	2
21	MP2A	Mx	.02	2
22	MP2A	X	-13.113	6
23	MP2A	Z	22.712	6
24	MP2A	Mx	.02	6
25	MP2A	X	-13.113	2
26	MP2A	Z	22.712	2
27	MP2A	Mx	-.007	2
28	MP2A	X	-13.113	6
29	MP2A	Z	22.712	6
30	MP2A	Mx	-.007	6
31	M45A	X	-5.784	2
32	M45A	Z	10.019	2
33	M45A	Mx	0	2
34	M48	X	-5.173	2
35	M48	Z	8.96	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-8.617	3
2	MP3A	Z	4.975	3
3	MP3A	Mx	.004	3
4	MP3A	X	-8.617	5
5	MP3A	Z	4.975	5
6	MP3A	Mx	.004	5
7	MP1A	X	-23.123	1.5
8	MP1A	Z	13.35	1.5
9	MP1A	Mx	.012	1.5
10	MP1A	X	-23.123	6.5
11	MP1A	Z	13.35	6.5
12	MP1A	Mx	.012	6.5
13	MP4A	X	-23.123	1.5
14	MP4A	Z	13.35	1.5
15	MP4A	Mx	.012	1.5
16	MP4A	X	-23.123	6.5
17	MP4A	Z	13.35	6.5
18	MP4A	Mx	.012	6.5
19	MP2A	X	-19.08	2
20	MP2A	Z	11.016	2
21	MP2A	Mx	.016	2
22	MP2A	X	-19.08	6
23	MP2A	Z	11.016	6
24	MP2A	Mx	.016	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP2A	X	-19.08	2
26	MP2A	Z	11.016	2
27	MP2A	Mx	.003	2
28	MP2A	X	-19.08	6
29	MP2A	Z	11.016	6
30	MP2A	Mx	.003	6
31	M45A	X	-11.876	2
32	M45A	Z	6.857	2
33	M45A	Mx	0	2
34	M48	X	-11.523	2
35	M48	Z	6.653	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-7.587	3
2	MP3A	Z	0	3
3	MP3A	Mx	.004	3
4	MP3A	X	-7.587	5
5	MP3A	Z	0	5
6	MP3A	Mx	.004	5
7	MP1A	X	-30.045	1.5
8	MP1A	Z	0	1.5
9	MP1A	Mx	.015	1.5
10	MP1A	X	-30.045	6.5
11	MP1A	Z	0	6.5
12	MP1A	Mx	.015	6.5
13	MP4A	X	-30.045	1.5
14	MP4A	Z	0	1.5
15	MP4A	Mx	.015	1.5
16	MP4A	X	-30.045	6.5
17	MP4A	Z	0	6.5
18	MP4A	Mx	.015	6.5
19	MP2A	X	-19.935	2
20	MP2A	Z	0	2
21	MP2A	Mx	.01	2
22	MP2A	X	-19.935	6
23	MP2A	Z	0	6
24	MP2A	Mx	.01	6
25	MP2A	X	-19.935	2
26	MP2A	Z	0	2
27	MP2A	Mx	.01	2
28	MP2A	X	-19.935	6
29	MP2A	Z	0	6
30	MP2A	Mx	.01	6
31	M45A	X	-14.785	2
32	M45A	Z	0	2
33	M45A	Mx	0	2
34	M48	X	-14.785	2
35	M48	Z	0	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-8.617	3
2	MP3A	Z	-4.975	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
3	MP3A	Mx	.004	3
4	MP3A	X	-8.617	5
5	MP3A	Z	-4.975	5
6	MP3A	Mx	.004	5
7	MP1A	X	-23.123	1.5
8	MP1A	Z	-13.35	1.5
9	MP1A	Mx	.012	1.5
10	MP1A	X	-23.123	6.5
11	MP1A	Z	-13.35	6.5
12	MP1A	Mx	.012	6.5
13	MP4A	X	-23.123	1.5
14	MP4A	Z	-13.35	1.5
15	MP4A	Mx	.012	1.5
16	MP4A	X	-23.123	6.5
17	MP4A	Z	-13.35	6.5
18	MP4A	Mx	.012	6.5
19	MP2A	X	-19.08	2
20	MP2A	Z	-11.016	2
21	MP2A	Mx	.003	2
22	MP2A	X	-19.08	6
23	MP2A	Z	-11.016	6
24	MP2A	Mx	.003	6
25	MP2A	X	-19.08	2
26	MP2A	Z	-11.016	2
27	MP2A	Mx	.016	2
28	MP2A	X	-19.08	6
29	MP2A	Z	-11.016	6
30	MP2A	Mx	.016	6
31	M45A	X	-11.876	2
32	M45A	Z	-6.857	2
33	M45A	Mx	0	2
34	M48	X	-11.523	2
35	M48	Z	-6.653	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-7.339	3
2	MP3A	Z	-12.711	3
3	MP3A	Mx	.004	3
4	MP3A	X	-7.339	5
5	MP3A	Z	-12.711	5
6	MP3A	Mx	.004	5
7	MP1A	X	-10.006	1.5
8	MP1A	Z	-17.331	1.5
9	MP1A	Mx	.005	1.5
10	MP1A	X	-10.006	6.5
11	MP1A	Z	-17.331	6.5
12	MP1A	Mx	.005	6.5
13	MP4A	X	-10.006	1.5
14	MP4A	Z	-17.331	1.5
15	MP4A	Mx	.005	1.5
16	MP4A	X	-10.006	6.5
17	MP4A	Z	-17.331	6.5
18	MP4A	Mx	.005	6.5
19	MP2A	X	-13.113	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
20	MP2A	Z	-22.712	2
21	MP2A	Mx	-.007	2
22	MP2A	X	-13.113	6
23	MP2A	Z	-22.712	6
24	MP2A	Mx	-.007	6
25	MP2A	X	-13.113	2
26	MP2A	Z	-22.712	2
27	MP2A	Mx	.02	2
28	MP2A	X	-13.113	6
29	MP2A	Z	-22.712	6
30	MP2A	Mx	.02	6
31	M45A	X	-5.784	2
32	M45A	Z	-10.019	2
33	M45A	Mx	0	2
34	M48	X	-5.173	2
35	M48	Z	-8.96	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	3
2	MP3A	Z	-5.105	3
3	MP3A	Mx	0	3
4	MP3A	X	0	5
5	MP3A	Z	-5.105	5
6	MP3A	Mx	0	5
7	MP1A	X	0	1.5
8	MP1A	Z	-4.703	1.5
9	MP1A	Mx	0	1.5
10	MP1A	X	0	6.5
11	MP1A	Z	-4.703	6.5
12	MP1A	Mx	0	6.5
13	MP4A	X	0	1.5
14	MP4A	Z	-4.703	1.5
15	MP4A	Mx	0	1.5
16	MP4A	X	0	6.5
17	MP4A	Z	-4.703	6.5
18	MP4A	Mx	0	6.5
19	MP2A	X	0	2
20	MP2A	Z	-8.776	2
21	MP2A	Mx	-.005	2
22	MP2A	X	0	6
23	MP2A	Z	-8.776	6
24	MP2A	Mx	-.005	6
25	MP2A	X	0	2
26	MP2A	Z	-8.776	2
27	MP2A	Mx	.005	2
28	MP2A	X	0	6
29	MP2A	Z	-8.776	6
30	MP2A	Mx	.005	6
31	M45A	X	0	2
32	M45A	Z	-2.715	2
33	M45A	Mx	0	2
34	M48	X	0	2
35	M48	Z	-2.199	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	2.164	3
2	MP3A	Z	-3.748	3
3	MP3A	Mx	-.001	3
4	MP3A	X	2.164	5
5	MP3A	Z	-3.748	5
6	MP3A	Mx	-.001	5
7	MP1A	X	2.935	1.5
8	MP1A	Z	-5.083	1.5
9	MP1A	Mx	-.001	1.5
10	MP1A	X	2.935	6.5
11	MP1A	Z	-5.083	6.5
12	MP1A	Mx	-.001	6.5
13	MP4A	X	2.935	1.5
14	MP4A	Z	-5.083	1.5
15	MP4A	Mx	-.001	1.5
16	MP4A	X	2.935	6.5
17	MP4A	Z	-5.083	6.5
18	MP4A	Mx	-.001	6.5
19	MP2A	X	4.016	2
20	MP2A	Z	-6.956	2
21	MP2A	Mx	-.006	2
22	MP2A	X	4.016	6
23	MP2A	Z	-6.956	6
24	MP2A	Mx	-.006	6
25	MP2A	X	4.016	2
26	MP2A	Z	-6.956	2
27	MP2A	Mx	.002	2
28	MP2A	X	4.016	6
29	MP2A	Z	-6.956	6
30	MP2A	Mx	.002	6
31	M45A	X	1.526	2
32	M45A	Z	-2.643	2
33	M45A	Mx	0	2
34	M48	X	1.332	2
35	M48	Z	-2.308	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	2.403	3
2	MP3A	Z	-1.387	3
3	MP3A	Mx	-.001	3
4	MP3A	X	2.403	5
5	MP3A	Z	-1.387	5
6	MP3A	Mx	-.001	5
7	MP1A	X	7.105	1.5
8	MP1A	Z	-4.102	1.5
9	MP1A	Mx	-.004	1.5
10	MP1A	X	7.105	6.5
11	MP1A	Z	-4.102	6.5
12	MP1A	Mx	-.004	6.5
13	MP4A	X	7.105	1.5
14	MP4A	Z	-4.102	1.5
15	MP4A	Mx	-.004	1.5
16	MP4A	X	7.105	6.5
17	MP4A	Z	-4.102	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP4A	Mx	-.004	6.5
19	MP2A	X	5.668	2
20	MP2A	Z	-3.273	2
21	MP2A	Mx	-.005	2
22	MP2A	X	5.668	6
23	MP2A	Z	-3.273	6
24	MP2A	Mx	-.005	6
25	MP2A	X	5.668	2
26	MP2A	Z	-3.273	2
27	MP2A	Mx	-.000925	2
28	MP2A	X	5.668	6
29	MP2A	Z	-3.273	6
30	MP2A	Mx	-.000925	6
31	M45A	X	3.226	2
32	M45A	Z	-1.863	2
33	M45A	Mx	0	2
34	M48	X	3.114	2
35	M48	Z	-1.798	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	1.998	3
2	MP3A	Z	0	3
3	MP3A	Mx	-.000999	3
4	MP3A	X	1.998	5
5	MP3A	Z	0	5
6	MP3A	Mx	-.000999	5
7	MP1A	X	9.371	1.5
8	MP1A	Z	0	1.5
9	MP1A	Mx	-.005	1.5
10	MP1A	X	9.371	6.5
11	MP1A	Z	0	6.5
12	MP1A	Mx	-.005	6.5
13	MP4A	X	9.371	1.5
14	MP4A	Z	0	1.5
15	MP4A	Mx	-.005	1.5
16	MP4A	X	9.371	6.5
17	MP4A	Z	0	6.5
18	MP4A	Mx	-.005	6.5
19	MP2A	X	5.802	2
20	MP2A	Z	0	2
21	MP2A	Mx	-.003	2
22	MP2A	X	5.802	6
23	MP2A	Z	0	6
24	MP2A	Mx	-.003	6
25	MP2A	X	5.802	2
26	MP2A	Z	0	2
27	MP2A	Mx	-.003	2
28	MP2A	X	5.802	6
29	MP2A	Z	0	6
30	MP2A	Mx	-.003	6
31	M45A	X	4.062	2
32	M45A	Z	0	2
33	M45A	Mx	0	2
34	M48	X	4.062	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	M48	Z	0	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	2.403	3
2	MP3A	Z	1.387	3
3	MP3A	Mx	-.001	3
4	MP3A	X	2.403	5
5	MP3A	Z	1.387	5
6	MP3A	Mx	-.001	5
7	MP1A	X	7.105	1.5
8	MP1A	Z	4.102	1.5
9	MP1A	Mx	-.004	1.5
10	MP1A	X	7.105	6.5
11	MP1A	Z	4.102	6.5
12	MP1A	Mx	-.004	6.5
13	MP4A	X	7.105	1.5
14	MP4A	Z	4.102	1.5
15	MP4A	Mx	-.004	1.5
16	MP4A	X	7.105	6.5
17	MP4A	Z	4.102	6.5
18	MP4A	Mx	-.004	6.5
19	MP2A	X	5.668	2
20	MP2A	Z	3.273	2
21	MP2A	Mx	-.000925	2
22	MP2A	X	5.668	6
23	MP2A	Z	3.273	6
24	MP2A	Mx	-.000925	6
25	MP2A	X	5.668	2
26	MP2A	Z	3.273	2
27	MP2A	Mx	-.005	2
28	MP2A	X	5.668	6
29	MP2A	Z	3.273	6
30	MP2A	Mx	-.005	6
31	M45A	X	3.226	2
32	M45A	Z	1.863	2
33	M45A	Mx	0	2
34	M48	X	3.114	2
35	M48	Z	1.798	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	2.164	3
2	MP3A	Z	3.748	3
3	MP3A	Mx	-.001	3
4	MP3A	X	2.164	5
5	MP3A	Z	3.748	5
6	MP3A	Mx	-.001	5
7	MP1A	X	2.935	1.5
8	MP1A	Z	5.083	1.5
9	MP1A	Mx	-.001	1.5
10	MP1A	X	2.935	6.5
11	MP1A	Z	5.083	6.5
12	MP1A	Mx	-.001	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP4A	X	2.935	1.5
14	MP4A	Z	5.083	1.5
15	MP4A	Mx	-.001	1.5
16	MP4A	X	2.935	6.5
17	MP4A	Z	5.083	6.5
18	MP4A	Mx	-.001	6.5
19	MP2A	X	4.016	2
20	MP2A	Z	6.956	2
21	MP2A	Mx	.002	2
22	MP2A	X	4.016	6
23	MP2A	Z	6.956	6
24	MP2A	Mx	.002	6
25	MP2A	X	4.016	2
26	MP2A	Z	6.956	2
27	MP2A	Mx	-.006	2
28	MP2A	X	4.016	6
29	MP2A	Z	6.956	6
30	MP2A	Mx	-.006	6
31	M45A	X	1.526	2
32	M45A	Z	2.643	2
33	M45A	Mx	0	2
34	M48	X	1.332	2
35	M48	Z	2.308	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	3
2	MP3A	Z	5.105	3
3	MP3A	Mx	0	3
4	MP3A	X	0	5
5	MP3A	Z	5.105	5
6	MP3A	Mx	0	5
7	MP1A	X	0	1.5
8	MP1A	Z	4.703	1.5
9	MP1A	Mx	0	1.5
10	MP1A	X	0	6.5
11	MP1A	Z	4.703	6.5
12	MP1A	Mx	0	6.5
13	MP4A	X	0	1.5
14	MP4A	Z	4.703	1.5
15	MP4A	Mx	0	1.5
16	MP4A	X	0	6.5
17	MP4A	Z	4.703	6.5
18	MP4A	Mx	0	6.5
19	MP2A	X	0	2
20	MP2A	Z	8.776	2
21	MP2A	Mx	.005	2
22	MP2A	X	0	6
23	MP2A	Z	8.776	6
24	MP2A	Mx	.005	6
25	MP2A	X	0	2
26	MP2A	Z	8.776	2
27	MP2A	Mx	-.005	2
28	MP2A	X	0	6
29	MP2A	Z	8.776	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP2A	Mx	-.005	6
31	M45A	X	0	2
32	M45A	Z	2.715	2
33	M45A	Mx	0	2
34	M48	X	0	2
35	M48	Z	2.199	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-2.164	3
2	MP3A	Z	3.748	3
3	MP3A	Mx	.001	3
4	MP3A	X	-2.164	5
5	MP3A	Z	3.748	5
6	MP3A	Mx	.001	5
7	MP1A	X	-2.935	1.5
8	MP1A	Z	5.083	1.5
9	MP1A	Mx	.001	1.5
10	MP1A	X	-2.935	6.5
11	MP1A	Z	5.083	6.5
12	MP1A	Mx	.001	6.5
13	MP4A	X	-2.935	1.5
14	MP4A	Z	5.083	1.5
15	MP4A	Mx	.001	1.5
16	MP4A	X	-2.935	6.5
17	MP4A	Z	5.083	6.5
18	MP4A	Mx	.001	6.5
19	MP2A	X	-4.016	2
20	MP2A	Z	6.956	2
21	MP2A	Mx	.006	2
22	MP2A	X	-4.016	6
23	MP2A	Z	6.956	6
24	MP2A	Mx	.006	6
25	MP2A	X	-4.016	2
26	MP2A	Z	6.956	2
27	MP2A	Mx	-.002	2
28	MP2A	X	-4.016	6
29	MP2A	Z	6.956	6
30	MP2A	Mx	-.002	6
31	M45A	X	-1.526	2
32	M45A	Z	2.643	2
33	M45A	Mx	0	2
34	M48	X	-1.332	2
35	M48	Z	2.308	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-2.403	3
2	MP3A	Z	1.387	3
3	MP3A	Mx	.001	3
4	MP3A	X	-2.403	5
5	MP3A	Z	1.387	5
6	MP3A	Mx	.001	5
7	MP1A	X	-7.105	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP1A	Z	4.102	1.5
9	MP1A	Mx	.004	1.5
10	MP1A	X	-7.105	6.5
11	MP1A	Z	4.102	6.5
12	MP1A	Mx	.004	6.5
13	MP4A	X	-7.105	1.5
14	MP4A	Z	4.102	1.5
15	MP4A	Mx	.004	1.5
16	MP4A	X	-7.105	6.5
17	MP4A	Z	4.102	6.5
18	MP4A	Mx	.004	6.5
19	MP2A	X	-5.668	2
20	MP2A	Z	3.273	2
21	MP2A	Mx	.005	2
22	MP2A	X	-5.668	6
23	MP2A	Z	3.273	6
24	MP2A	Mx	.005	6
25	MP2A	X	-5.668	2
26	MP2A	Z	3.273	2
27	MP2A	Mx	.000925	2
28	MP2A	X	-5.668	6
29	MP2A	Z	3.273	6
30	MP2A	Mx	.000925	6
31	M45A	X	-3.226	2
32	M45A	Z	1.863	2
33	M45A	Mx	0	2
34	M48	X	-3.114	2
35	M48	Z	1.798	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-1.998	3
2	MP3A	Z	0	3
3	MP3A	Mx	.000999	3
4	MP3A	X	-1.998	5
5	MP3A	Z	0	5
6	MP3A	Mx	.000999	5
7	MP1A	X	-9.371	1.5
8	MP1A	Z	0	1.5
9	MP1A	Mx	.005	1.5
10	MP1A	X	-9.371	6.5
11	MP1A	Z	0	6.5
12	MP1A	Mx	.005	6.5
13	MP4A	X	-9.371	1.5
14	MP4A	Z	0	1.5
15	MP4A	Mx	.005	1.5
16	MP4A	X	-9.371	6.5
17	MP4A	Z	0	6.5
18	MP4A	Mx	.005	6.5
19	MP2A	X	-5.802	2
20	MP2A	Z	0	2
21	MP2A	Mx	.003	2
22	MP2A	X	-5.802	6
23	MP2A	Z	0	6
24	MP2A	Mx	.003	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP2A	X	-5.802	2
26	MP2A	Z	0	2
27	MP2A	Mx	.003	2
28	MP2A	X	-5.802	6
29	MP2A	Z	0	6
30	MP2A	Mx	.003	6
31	M45A	X	-4.062	2
32	M45A	Z	0	2
33	M45A	Mx	0	2
34	M48	X	-4.062	2
35	M48	Z	0	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-2.403	3
2	MP3A	Z	-1.387	3
3	MP3A	Mx	.001	3
4	MP3A	X	-2.403	5
5	MP3A	Z	-1.387	5
6	MP3A	Mx	.001	5
7	MP1A	X	-7.105	1.5
8	MP1A	Z	-4.102	1.5
9	MP1A	Mx	.004	1.5
10	MP1A	X	-7.105	6.5
11	MP1A	Z	-4.102	6.5
12	MP1A	Mx	.004	6.5
13	MP4A	X	-7.105	1.5
14	MP4A	Z	-4.102	1.5
15	MP4A	Mx	.004	1.5
16	MP4A	X	-7.105	6.5
17	MP4A	Z	-4.102	6.5
18	MP4A	Mx	.004	6.5
19	MP2A	X	-5.668	2
20	MP2A	Z	-3.273	2
21	MP2A	Mx	.000925	2
22	MP2A	X	-5.668	6
23	MP2A	Z	-3.273	6
24	MP2A	Mx	.000925	6
25	MP2A	X	-5.668	2
26	MP2A	Z	-3.273	2
27	MP2A	Mx	.005	2
28	MP2A	X	-5.668	6
29	MP2A	Z	-3.273	6
30	MP2A	Mx	.005	6
31	M45A	X	-3.226	2
32	M45A	Z	-1.863	2
33	M45A	Mx	0	2
34	M48	X	-3.114	2
35	M48	Z	-1.798	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-2.164	3
2	MP3A	Z	-3.748	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
3	MP3A	Mx	.001	3
4	MP3A	X	-2.164	5
5	MP3A	Z	-3.748	5
6	MP3A	Mx	.001	5
7	MP1A	X	-2.935	1.5
8	MP1A	Z	-5.083	1.5
9	MP1A	Mx	.001	1.5
10	MP1A	X	-2.935	6.5
11	MP1A	Z	-5.083	6.5
12	MP1A	Mx	.001	6.5
13	MP4A	X	-2.935	1.5
14	MP4A	Z	-5.083	1.5
15	MP4A	Mx	.001	1.5
16	MP4A	X	-2.935	6.5
17	MP4A	Z	-5.083	6.5
18	MP4A	Mx	.001	6.5
19	MP2A	X	-4.016	2
20	MP2A	Z	-6.956	2
21	MP2A	Mx	-.002	2
22	MP2A	X	-4.016	6
23	MP2A	Z	-6.956	6
24	MP2A	Mx	-.002	6
25	MP2A	X	-4.016	2
26	MP2A	Z	-6.956	2
27	MP2A	Mx	.006	2
28	MP2A	X	-4.016	6
29	MP2A	Z	-6.956	6
30	MP2A	Mx	.006	6
31	M45A	X	-1.526	2
32	M45A	Z	-2.643	2
33	M45A	Mx	0	2
34	M48	X	-1.332	2
35	M48	Z	-2.308	2
36	M48	Mx	0	2

Member Point Loads (BLC 77 : Lm1)

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

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-500	%33

Member Point Loads (BLC 79 : Lv1)

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

Member Point Loads (BLC 80 : Lv2)

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

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	Y	-10.006	-10.006	0	%100
2	M2	Y	-10.006	-10.006	0	%100
3	M13	Y	-12.537	-12.537	0	%100
4	M14	Y	-12.537	-12.537	0	%100
5	M15	Y	-12.537	-12.537	0	%100
6	M16	Y	-12.537	-12.537	0	%100
7	M17	Y	-8.928	-8.928	0	%100
8	M18	Y	-8.928	-8.928	0	%100
9	M19	Y	-8.928	-8.928	0	%100
10	M20	Y	-8.928	-8.928	0	%100
11	M21	Y	-12.537	-12.537	0	%100
12	M22	Y	-12.537	-12.537	0	%100
13	M23	Y	-12.537	-12.537	0	%100
14	M24	Y	-12.537	-12.537	0	%100
15	M25	Y	-5.424	-5.424	0	%100
16	M26	Y	-5.424	-5.424	0	%100
17	M27	Y	-5.424	-5.424	0	%100
18	M28	Y	-5.424	-5.424	0	%100
19	M44	Y	-5.154	-5.154	0	%100
20	M45	Y	-5.154	-5.154	0	%100
21	M46	Y	-5.154	-5.154	0	%100
22	M47	Y	-5.154	-5.154	0	%100
23	MP1A	Y	-8.928	-8.928	0	%100
24	MP2A	Y	-8.928	-8.928	0	%100
25	MP3A	Y	-8.928	-8.928	0	%100
26	MP4A	Y	-8.928	-8.928	0	%100
27	M45A	Y	-8.928	-8.928	0	%100
28	M48	Y	-8.928	-8.928	0	%100
29	M49	Y	-8.928	-8.928	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-9.177	-9.177	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-9.177	-9.177	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	-3.623	-3.623	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	-3.623	-3.623	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	-3.623	-3.623	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	-3.623	-3.623	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	-1.995	-1.995	0	%100
23	M22	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,%]
24	M22	Z	-1.995	-1.995	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	-1.995	-1.995	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-1.995	-1.995	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-2.066	-2.066	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-2.066	-2.066	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-2.066	-2.066	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-2.066	-2.066	0	%100
37	M44	X	0	0	0	%100
38	M44	Z	-1.995	-1.995	0	%100
39	M45	X	0	0	0	%100
40	M45	Z	-1.995	-1.995	0	%100
41	M46	X	0	0	0	%100
42	M46	Z	-1.995	-1.995	0	%100
43	M47	X	0	0	0	%100
44	M47	Z	-1.995	-1.995	0	%100
45	MP1A	X	0	0	0	%100
46	MP1A	Z	-7.581	-7.581	0	%100
47	MP2A	X	0	0	0	%100
48	MP2A	Z	-7.581	-7.581	0	%100
49	MP3A	X	0	0	0	%100
50	MP3A	Z	-7.581	-7.581	0	%100
51	MP4A	X	0	0	0	%100
52	MP4A	Z	-7.581	-7.581	0	%100
53	M45A	X	0	0	0	%100
54	M45A	Z	-6.967	-6.967	0	%100
55	M48	X	0	0	0	%100
56	M48	Z	-6.967	-6.967	0	%100
57	M49	X	0	0	0	%100
58	M49	Z	-1.054	-1.054	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	3.441	3.441	0	%100
2	M1	Z	-5.96	-5.96	0	%100
3	M2	X	3.441	3.441	0	%100
4	M2	Z	-5.96	-5.96	0	%100
5	M13	X	.249	.249	0	%100
6	M13	Z	-.432	-.432	0	%100
7	M14	X	.249	.249	0	%100
8	M14	Z	-.432	-.432	0	%100
9	M15	X	.249	.249	0	%100
10	M15	Z	-.432	-.432	0	%100
11	M16	X	.249	.249	0	%100
12	M16	Z	-.432	-.432	0	%100
13	M17	X	.408	.408	0	%100
14	M17	Z	-.706	-.706	0	%100
15	M18	X	.408	.408	0	%100
16	M18	Z	-.706	-.706	0	%100
17	M19	X	2.865	2.865	0	%100
18	M19	Z	-4.962	-4.962	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,%]
19	M20	X	2.865	2.865	0	%100
20	M20	Z	-4.962	-4.962	0	%100
21	M21	X	.748	.748	0	%100
22	M21	Z	-1.296	-1.296	0	%100
23	M22	X	.748	.748	0	%100
24	M22	Z	-1.296	-1.296	0	%100
25	M23	X	.748	.748	0	%100
26	M23	Z	-1.296	-1.296	0	%100
27	M24	X	.748	.748	0	%100
28	M24	Z	-1.296	-1.296	0	%100
29	M25	X	.826	.826	0	%100
30	M25	Z	-1.431	-1.431	0	%100
31	M26	X	.826	.826	0	%100
32	M26	Z	-1.431	-1.431	0	%100
33	M27	X	1.188	1.188	0	%100
34	M27	Z	-2.059	-2.059	0	%100
35	M28	X	1.188	1.188	0	%100
36	M28	Z	-2.059	-2.059	0	%100
37	M44	X	.997	.997	0	%100
38	M44	Z	-1.728	-1.728	0	%100
39	M45	X	.997	.997	0	%100
40	M45	Z	-1.728	-1.728	0	%100
41	M46	X	.997	.997	0	%100
42	M46	Z	-1.728	-1.728	0	%100
43	M47	X	.997	.997	0	%100
44	M47	Z	-1.728	-1.728	0	%100
45	MP1A	X	3.79	3.79	0	%100
46	MP1A	Z	-6.565	-6.565	0	%100
47	MP2A	X	3.79	3.79	0	%100
48	MP2A	Z	-6.565	-6.565	0	%100
49	MP3A	X	3.79	3.79	0	%100
50	MP3A	Z	-6.565	-6.565	0	%100
51	MP4A	X	3.79	3.79	0	%100
52	MP4A	Z	-6.565	-6.565	0	%100
53	M45A	X	3.484	3.484	0	%100
54	M45A	Z	-6.034	-6.034	0	%100
55	M48	X	3.484	3.484	0	%100
56	M48	Z	-6.034	-6.034	0	%100
57	M49	X	2.347	2.347	0	%100
58	M49	Z	-4.065	-4.065	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.987	1.987	0	%100
2	M1	Z	-1.147	-1.147	0	%100
3	M2	X	1.987	1.987	0	%100
4	M2	Z	-1.147	-1.147	0	%100
5	M13	X	1.296	1.296	0	%100
6	M13	Z	-.748	-.748	0	%100
7	M14	X	1.296	1.296	0	%100
8	M14	Z	-.748	-.748	0	%100
9	M15	X	1.296	1.296	0	%100
10	M15	Z	-.748	-.748	0	%100
11	M16	X	1.296	1.296	0	%100
12	M16	Z	-.748	-.748	0	%100
13	M17	X	.1	.1	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,%]
14	M17	Z	-.057	-.057	0	%100
15	M18	X	.1	.1	0	%100
16	M18	Z	-.057	-.057	0	%100
17	M19	X	4.355	4.355	0	%100
18	M19	Z	-2.515	-2.515	0	%100
19	M20	X	4.355	4.355	0	%100
20	M20	Z	-2.515	-2.515	0	%100
21	M21	X	.432	.432	0	%100
22	M21	Z	-.249	-.249	0	%100
23	M22	X	.432	.432	0	%100
24	M22	Z	-.249	-.249	0	%100
25	M23	X	.432	.432	0	%100
26	M23	Z	-.249	-.249	0	%100
27	M24	X	.432	.432	0	%100
28	M24	Z	-.249	-.249	0	%100
29	M25	X	1.341	1.341	0	%100
30	M25	Z	-.774	-.774	0	%100
31	M26	X	1.341	1.341	0	%100
32	M26	Z	-.774	-.774	0	%100
33	M27	X	1.969	1.969	0	%100
34	M27	Z	-1.137	-1.137	0	%100
35	M28	X	1.969	1.969	0	%100
36	M28	Z	-1.137	-1.137	0	%100
37	M44	X	1.728	1.728	0	%100
38	M44	Z	-.997	-.997	0	%100
39	M45	X	1.728	1.728	0	%100
40	M45	Z	-.997	-.997	0	%100
41	M46	X	1.728	1.728	0	%100
42	M46	Z	-.997	-.997	0	%100
43	M47	X	1.728	1.728	0	%100
44	M47	Z	-.997	-.997	0	%100
45	MP1A	X	6.565	6.565	0	%100
46	MP1A	Z	-3.79	-3.79	0	%100
47	MP2A	X	6.565	6.565	0	%100
48	MP2A	Z	-3.79	-3.79	0	%100
49	MP3A	X	6.565	6.565	0	%100
50	MP3A	Z	-3.79	-3.79	0	%100
51	MP4A	X	6.565	6.565	0	%100
52	MP4A	Z	-3.79	-3.79	0	%100
53	M45A	X	6.034	6.034	0	%100
54	M45A	Z	-3.484	-3.484	0	%100
55	M48	X	6.034	6.034	0	%100
56	M48	Z	-3.484	-3.484	0	%100
57	M49	X	6.435	6.435	0	%100
58	M49	Z	-3.715	-3.715	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	1.995	1.995	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	1.995	1.995	0	%100
8	M14	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,%]
9	M15	X	1.995	1.995	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	1.995	1.995	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	2.222	2.222	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	2.222	2.222	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	2.222	2.222	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	2.222	2.222	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	1.86	1.86	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	1.86	1.86	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	1.86	1.86	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	1.86	1.86	0	%100
36	M28	Z	0	0	0	%100
37	M44	X	1.995	1.995	0	%100
38	M44	Z	0	0	0	%100
39	M45	X	1.995	1.995	0	%100
40	M45	Z	0	0	0	%100
41	M46	X	1.995	1.995	0	%100
42	M46	Z	0	0	0	%100
43	M47	X	1.995	1.995	0	%100
44	M47	Z	0	0	0	%100
45	MP1A	X	7.581	7.581	0	%100
46	MP1A	Z	0	0	0	%100
47	MP2A	X	7.581	7.581	0	%100
48	MP2A	Z	0	0	0	%100
49	MP3A	X	7.581	7.581	0	%100
50	MP3A	Z	0	0	0	%100
51	MP4A	X	7.581	7.581	0	%100
52	MP4A	Z	0	0	0	%100
53	M45A	X	6.967	6.967	0	%100
54	M45A	Z	0	0	0	%100
55	M48	X	6.967	6.967	0	%100
56	M48	Z	0	0	0	%100
57	M49	X	6.527	6.527	0	%100
58	M49	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.987	1.987	0	%100
2	M1	Z	1.147	1.147	0	%100
3	M2	X	1.987	1.987	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,%]
4	M2	Z	1.147	1.147	0	%100
5	M13	X	1.296	1.296	0	%100
6	M13	Z	.748	.748	0	%100
7	M14	X	1.296	1.296	0	%100
8	M14	Z	.748	.748	0	%100
9	M15	X	1.296	1.296	0	%100
10	M15	Z	.748	.748	0	%100
11	M16	X	1.296	1.296	0	%100
12	M16	Z	.748	.748	0	%100
13	M17	X	4.355	4.355	0	%100
14	M17	Z	2.515	2.515	0	%100
15	M18	X	4.355	4.355	0	%100
16	M18	Z	2.515	2.515	0	%100
17	M19	X	.1	.1	0	%100
18	M19	Z	.057	.057	0	%100
19	M20	X	.1	.1	0	%100
20	M20	Z	.057	.057	0	%100
21	M21	X	.432	.432	0	%100
22	M21	Z	.249	.249	0	%100
23	M22	X	.432	.432	0	%100
24	M22	Z	.249	.249	0	%100
25	M23	X	.432	.432	0	%100
26	M23	Z	.249	.249	0	%100
27	M24	X	.432	.432	0	%100
28	M24	Z	.249	.249	0	%100
29	M25	X	1.969	1.969	0	%100
30	M25	Z	1.137	1.137	0	%100
31	M26	X	1.969	1.969	0	%100
32	M26	Z	1.137	1.137	0	%100
33	M27	X	1.341	1.341	0	%100
34	M27	Z	.774	.774	0	%100
35	M28	X	1.341	1.341	0	%100
36	M28	Z	.774	.774	0	%100
37	M44	X	1.728	1.728	0	%100
38	M44	Z	.997	.997	0	%100
39	M45	X	1.728	1.728	0	%100
40	M45	Z	.997	.997	0	%100
41	M46	X	1.728	1.728	0	%100
42	M46	Z	.997	.997	0	%100
43	M47	X	1.728	1.728	0	%100
44	M47	Z	.997	.997	0	%100
45	MP1A	X	6.565	6.565	0	%100
46	MP1A	Z	3.79	3.79	0	%100
47	MP2A	X	6.565	6.565	0	%100
48	MP2A	Z	3.79	3.79	0	%100
49	MP3A	X	6.565	6.565	0	%100
50	MP3A	Z	3.79	3.79	0	%100
51	MP4A	X	6.565	6.565	0	%100
52	MP4A	Z	3.79	3.79	0	%100
53	M45A	X	6.034	6.034	0	%100
54	M45A	Z	3.484	3.484	0	%100
55	M48	X	6.034	6.034	0	%100
56	M48	Z	3.484	3.484	0	%100
57	M49	X	2.5	2.5	0	%100
58	M49	Z	1.443	1.443	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	3.441	3.441	0	%100
2	M1	Z	5.96	5.96	0	%100
3	M2	X	3.441	3.441	0	%100
4	M2	Z	5.96	5.96	0	%100
5	M13	X	.249	.249	0	%100
6	M13	Z	.432	.432	0	%100
7	M14	X	.249	.249	0	%100
8	M14	Z	.432	.432	0	%100
9	M15	X	.249	.249	0	%100
10	M15	Z	.432	.432	0	%100
11	M16	X	.249	.249	0	%100
12	M16	Z	.432	.432	0	%100
13	M17	X	2.865	2.865	0	%100
14	M17	Z	4.962	4.962	0	%100
15	M18	X	2.865	2.865	0	%100
16	M18	Z	4.962	4.962	0	%100
17	M19	X	.408	.408	0	%100
18	M19	Z	.706	.706	0	%100
19	M20	X	.408	.408	0	%100
20	M20	Z	.706	.706	0	%100
21	M21	X	.748	.748	0	%100
22	M21	Z	1.296	1.296	0	%100
23	M22	X	.748	.748	0	%100
24	M22	Z	1.296	1.296	0	%100
25	M23	X	.748	.748	0	%100
26	M23	Z	1.296	1.296	0	%100
27	M24	X	.748	.748	0	%100
28	M24	Z	1.296	1.296	0	%100
29	M25	X	1.188	1.188	0	%100
30	M25	Z	2.059	2.059	0	%100
31	M26	X	1.188	1.188	0	%100
32	M26	Z	2.059	2.059	0	%100
33	M27	X	.826	.826	0	%100
34	M27	Z	1.431	1.431	0	%100
35	M28	X	.826	.826	0	%100
36	M28	Z	1.431	1.431	0	%100
37	M44	X	.997	.997	0	%100
38	M44	Z	1.728	1.728	0	%100
39	M45	X	.997	.997	0	%100
40	M45	Z	1.728	1.728	0	%100
41	M46	X	.997	.997	0	%100
42	M46	Z	1.728	1.728	0	%100
43	M47	X	.997	.997	0	%100
44	M47	Z	1.728	1.728	0	%100
45	MP1A	X	3.79	3.79	0	%100
46	MP1A	Z	6.565	6.565	0	%100
47	MP2A	X	3.79	3.79	0	%100
48	MP2A	Z	6.565	6.565	0	%100
49	MP3A	X	3.79	3.79	0	%100
50	MP3A	Z	6.565	6.565	0	%100
51	MP4A	X	3.79	3.79	0	%100
52	MP4A	Z	6.565	6.565	0	%100
53	M45A	X	3.484	3.484	0	%100
54	M45A	Z	6.034	6.034	0	%100
55	M48	X	3.484	3.484	0	%100
56	M48	Z	6.034	6.034	0	%100
57	M49	X	.075	.075	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M49	Z	.13	.13	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	9.177	9.177	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	9.177	9.177	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	3.623	3.623	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	3.623	3.623	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	3.623	3.623	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	3.623	3.623	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	1.995	1.995	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	1.995	1.995	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	1.995	1.995	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	1.995	1.995	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	2.066	2.066	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	2.066	2.066	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	2.066	2.066	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	2.066	2.066	0	%100
37	M44	X	0	0	0	%100
38	M44	Z	1.995	1.995	0	%100
39	M45	X	0	0	0	%100
40	M45	Z	1.995	1.995	0	%100
41	M46	X	0	0	0	%100
42	M46	Z	1.995	1.995	0	%100
43	M47	X	0	0	0	%100
44	M47	Z	1.995	1.995	0	%100
45	MP1A	X	0	0	0	%100
46	MP1A	Z	7.581	7.581	0	%100
47	MP2A	X	0	0	0	%100
48	MP2A	Z	7.581	7.581	0	%100
49	MP3A	X	0	0	0	%100
50	MP3A	Z	7.581	7.581	0	%100
51	MP4A	X	0	0	0	%100
52	MP4A	Z	7.581	7.581	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,%]
53	M45A	X	0	0	0	%100
54	M45A	Z	6.967	6.967	0	%100
55	M48	X	0	0	0	%100
56	M48	Z	6.967	6.967	0	%100
57	M49	X	0	0	0	%100
58	M49	Z	1.054	1.054	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-3.441	-3.441	0	%100
2	M1	Z	5.96	5.96	0	%100
3	M2	X	-3.441	-3.441	0	%100
4	M2	Z	5.96	5.96	0	%100
5	M13	X	-.249	-.249	0	%100
6	M13	Z	.432	.432	0	%100
7	M14	X	-.249	-.249	0	%100
8	M14	Z	.432	.432	0	%100
9	M15	X	-.249	-.249	0	%100
10	M15	Z	.432	.432	0	%100
11	M16	X	-.249	-.249	0	%100
12	M16	Z	.432	.432	0	%100
13	M17	X	-.408	-.408	0	%100
14	M17	Z	.706	.706	0	%100
15	M18	X	-.408	-.408	0	%100
16	M18	Z	.706	.706	0	%100
17	M19	X	-2.865	-2.865	0	%100
18	M19	Z	4.962	4.962	0	%100
19	M20	X	-2.865	-2.865	0	%100
20	M20	Z	4.962	4.962	0	%100
21	M21	X	-.748	-.748	0	%100
22	M21	Z	1.296	1.296	0	%100
23	M22	X	-.748	-.748	0	%100
24	M22	Z	1.296	1.296	0	%100
25	M23	X	-.748	-.748	0	%100
26	M23	Z	1.296	1.296	0	%100
27	M24	X	-.748	-.748	0	%100
28	M24	Z	1.296	1.296	0	%100
29	M25	X	-.826	-.826	0	%100
30	M25	Z	1.431	1.431	0	%100
31	M26	X	-.826	-.826	0	%100
32	M26	Z	1.431	1.431	0	%100
33	M27	X	-1.188	-1.188	0	%100
34	M27	Z	2.059	2.059	0	%100
35	M28	X	-1.188	-1.188	0	%100
36	M28	Z	2.059	2.059	0	%100
37	M44	X	-.997	-.997	0	%100
38	M44	Z	1.728	1.728	0	%100
39	M45	X	-.997	-.997	0	%100
40	M45	Z	1.728	1.728	0	%100
41	M46	X	-.997	-.997	0	%100
42	M46	Z	1.728	1.728	0	%100
43	M47	X	-.997	-.997	0	%100
44	M47	Z	1.728	1.728	0	%100
45	MP1A	X	-3.79	-3.79	0	%100
46	MP1A	Z	6.565	6.565	0	%100
47	MP2A	X	-3.79	-3.79	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,%]
48	MP2A	Z	6.565	6.565	0	%100
49	MP3A	X	-3.79	-3.79	0	%100
50	MP3A	Z	6.565	6.565	0	%100
51	MP4A	X	-3.79	-3.79	0	%100
52	MP4A	Z	6.565	6.565	0	%100
53	M45A	X	-3.484	-3.484	0	%100
54	M45A	Z	6.034	6.034	0	%100
55	M48	X	-3.484	-3.484	0	%100
56	M48	Z	6.034	6.034	0	%100
57	M49	X	-2.347	-2.347	0	%100
58	M49	Z	4.065	4.065	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.987	-1.987	0	%100
2	M1	Z	1.147	1.147	0	%100
3	M2	X	-1.987	-1.987	0	%100
4	M2	Z	1.147	1.147	0	%100
5	M13	X	-1.296	-1.296	0	%100
6	M13	Z	.748	.748	0	%100
7	M14	X	-1.296	-1.296	0	%100
8	M14	Z	.748	.748	0	%100
9	M15	X	-1.296	-1.296	0	%100
10	M15	Z	.748	.748	0	%100
11	M16	X	-1.296	-1.296	0	%100
12	M16	Z	.748	.748	0	%100
13	M17	X	-.1	-.1	0	%100
14	M17	Z	.057	.057	0	%100
15	M18	X	-.1	-.1	0	%100
16	M18	Z	.057	.057	0	%100
17	M19	X	-4.355	-4.355	0	%100
18	M19	Z	2.515	2.515	0	%100
19	M20	X	-4.355	-4.355	0	%100
20	M20	Z	2.515	2.515	0	%100
21	M21	X	-.432	-.432	0	%100
22	M21	Z	.249	.249	0	%100
23	M22	X	-.432	-.432	0	%100
24	M22	Z	.249	.249	0	%100
25	M23	X	-.432	-.432	0	%100
26	M23	Z	.249	.249	0	%100
27	M24	X	-.432	-.432	0	%100
28	M24	Z	.249	.249	0	%100
29	M25	X	-1.341	-1.341	0	%100
30	M25	Z	.774	.774	0	%100
31	M26	X	-1.341	-1.341	0	%100
32	M26	Z	.774	.774	0	%100
33	M27	X	-1.969	-1.969	0	%100
34	M27	Z	1.137	1.137	0	%100
35	M28	X	-1.969	-1.969	0	%100
36	M28	Z	1.137	1.137	0	%100
37	M44	X	-1.728	-1.728	0	%100
38	M44	Z	.997	.997	0	%100
39	M45	X	-1.728	-1.728	0	%100
40	M45	Z	.997	.997	0	%100
41	M46	X	-1.728	-1.728	0	%100
42	M46	Z	.997	.997	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,%]
43	M47	X	-1.728	-1.728	0	%100
44	M47	Z	.997	.997	0	%100
45	MP1A	X	-6.565	-6.565	0	%100
46	MP1A	Z	3.79	3.79	0	%100
47	MP2A	X	-6.565	-6.565	0	%100
48	MP2A	Z	3.79	3.79	0	%100
49	MP3A	X	-6.565	-6.565	0	%100
50	MP3A	Z	3.79	3.79	0	%100
51	MP4A	X	-6.565	-6.565	0	%100
52	MP4A	Z	3.79	3.79	0	%100
53	M45A	X	-6.034	-6.034	0	%100
54	M45A	Z	3.484	3.484	0	%100
55	M48	X	-6.034	-6.034	0	%100
56	M48	Z	3.484	3.484	0	%100
57	M49	X	-6.435	-6.435	0	%100
58	M49	Z	3.715	3.715	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	-1.995	-1.995	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	-1.995	-1.995	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	-1.995	-1.995	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	-1.995	-1.995	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	-2.222	-2.222	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	-2.222	-2.222	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	-2.222	-2.222	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	-2.222	-2.222	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	-1.86	-1.86	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	-1.86	-1.86	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	-1.86	-1.86	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	-1.86	-1.86	0	%100
36	M28	Z	0	0	0	%100
37	M44	X	-1.995	-1.995	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,%]
38	M44	Z	0	0	0	%100
39	M45	X	-1.995	-1.995	0	%100
40	M45	Z	0	0	0	%100
41	M46	X	-1.995	-1.995	0	%100
42	M46	Z	0	0	0	%100
43	M47	X	-1.995	-1.995	0	%100
44	M47	Z	0	0	0	%100
45	MP1A	X	-7.581	-7.581	0	%100
46	MP1A	Z	0	0	0	%100
47	MP2A	X	-7.581	-7.581	0	%100
48	MP2A	Z	0	0	0	%100
49	MP3A	X	-7.581	-7.581	0	%100
50	MP3A	Z	0	0	0	%100
51	MP4A	X	-7.581	-7.581	0	%100
52	MP4A	Z	0	0	0	%100
53	M45A	X	-6.967	-6.967	0	%100
54	M45A	Z	0	0	0	%100
55	M48	X	-6.967	-6.967	0	%100
56	M48	Z	0	0	0	%100
57	M49	X	-6.527	-6.527	0	%100
58	M49	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.987	-1.987	0	%100
2	M1	Z	-1.147	-1.147	0	%100
3	M2	X	-1.987	-1.987	0	%100
4	M2	Z	-1.147	-1.147	0	%100
5	M13	X	-1.296	-1.296	0	%100
6	M13	Z	-.748	-.748	0	%100
7	M14	X	-1.296	-1.296	0	%100
8	M14	Z	-.748	-.748	0	%100
9	M15	X	-1.296	-1.296	0	%100
10	M15	Z	-.748	-.748	0	%100
11	M16	X	-1.296	-1.296	0	%100
12	M16	Z	-.748	-.748	0	%100
13	M17	X	-4.355	-4.355	0	%100
14	M17	Z	-2.515	-2.515	0	%100
15	M18	X	-4.355	-4.355	0	%100
16	M18	Z	-2.515	-2.515	0	%100
17	M19	X	-.1	-.1	0	%100
18	M19	Z	-.057	-.057	0	%100
19	M20	X	-.1	-.1	0	%100
20	M20	Z	-.057	-.057	0	%100
21	M21	X	-.432	-.432	0	%100
22	M21	Z	-.249	-.249	0	%100
23	M22	X	-.432	-.432	0	%100
24	M22	Z	-.249	-.249	0	%100
25	M23	X	-.432	-.432	0	%100
26	M23	Z	-.249	-.249	0	%100
27	M24	X	-.432	-.432	0	%100
28	M24	Z	-.249	-.249	0	%100
29	M25	X	-1.969	-1.969	0	%100
30	M25	Z	-1.137	-1.137	0	%100
31	M26	X	-1.969	-1.969	0	%100
32	M26	Z	-1.137	-1.137	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,%]
33	M27	X	-1.341	-1.341	0	%100
34	M27	Z	-.774	-.774	0	%100
35	M28	X	-1.341	-1.341	0	%100
36	M28	Z	-.774	-.774	0	%100
37	M44	X	-1.728	-1.728	0	%100
38	M44	Z	-.997	-.997	0	%100
39	M45	X	-1.728	-1.728	0	%100
40	M45	Z	-.997	-.997	0	%100
41	M46	X	-1.728	-1.728	0	%100
42	M46	Z	-.997	-.997	0	%100
43	M47	X	-1.728	-1.728	0	%100
44	M47	Z	-.997	-.997	0	%100
45	MP1A	X	-6.565	-6.565	0	%100
46	MP1A	Z	-3.79	-3.79	0	%100
47	MP2A	X	-6.565	-6.565	0	%100
48	MP2A	Z	-3.79	-3.79	0	%100
49	MP3A	X	-6.565	-6.565	0	%100
50	MP3A	Z	-3.79	-3.79	0	%100
51	MP4A	X	-6.565	-6.565	0	%100
52	MP4A	Z	-3.79	-3.79	0	%100
53	M45A	X	-6.034	-6.034	0	%100
54	M45A	Z	-3.484	-3.484	0	%100
55	M48	X	-6.034	-6.034	0	%100
56	M48	Z	-3.484	-3.484	0	%100
57	M49	X	-2.5	-2.5	0	%100
58	M49	Z	-1.443	-1.443	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-3.441	-3.441	0	%100
2	M1	Z	-5.96	-5.96	0	%100
3	M2	X	-3.441	-3.441	0	%100
4	M2	Z	-5.96	-5.96	0	%100
5	M13	X	-.249	-.249	0	%100
6	M13	Z	-.432	-.432	0	%100
7	M14	X	-.249	-.249	0	%100
8	M14	Z	-.432	-.432	0	%100
9	M15	X	-.249	-.249	0	%100
10	M15	Z	-.432	-.432	0	%100
11	M16	X	-.249	-.249	0	%100
12	M16	Z	-.432	-.432	0	%100
13	M17	X	-2.865	-2.865	0	%100
14	M17	Z	-4.962	-4.962	0	%100
15	M18	X	-2.865	-2.865	0	%100
16	M18	Z	-4.962	-4.962	0	%100
17	M19	X	-.408	-.408	0	%100
18	M19	Z	-.706	-.706	0	%100
19	M20	X	-.408	-.408	0	%100
20	M20	Z	-.706	-.706	0	%100
21	M21	X	-.748	-.748	0	%100
22	M21	Z	-1.296	-1.296	0	%100
23	M22	X	-.748	-.748	0	%100
24	M22	Z	-1.296	-1.296	0	%100
25	M23	X	-.748	-.748	0	%100
26	M23	Z	-1.296	-1.296	0	%100
27	M24	X	-.748	-.748	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,%]
28	M24	Z	-1.296	-1.296	0	%100
29	M25	X	-1.188	-1.188	0	%100
30	M25	Z	-2.059	-2.059	0	%100
31	M26	X	-1.188	-1.188	0	%100
32	M26	Z	-2.059	-2.059	0	%100
33	M27	X	-.826	-.826	0	%100
34	M27	Z	-1.431	-1.431	0	%100
35	M28	X	-.826	-.826	0	%100
36	M28	Z	-1.431	-1.431	0	%100
37	M44	X	-.997	-.997	0	%100
38	M44	Z	-1.728	-1.728	0	%100
39	M45	X	-.997	-.997	0	%100
40	M45	Z	-1.728	-1.728	0	%100
41	M46	X	-.997	-.997	0	%100
42	M46	Z	-1.728	-1.728	0	%100
43	M47	X	-.997	-.997	0	%100
44	M47	Z	-1.728	-1.728	0	%100
45	MP1A	X	-3.79	-3.79	0	%100
46	MP1A	Z	-6.565	-6.565	0	%100
47	MP2A	X	-3.79	-3.79	0	%100
48	MP2A	Z	-6.565	-6.565	0	%100
49	MP3A	X	-3.79	-3.79	0	%100
50	MP3A	Z	-6.565	-6.565	0	%100
51	MP4A	X	-3.79	-3.79	0	%100
52	MP4A	Z	-6.565	-6.565	0	%100
53	M45A	X	-3.484	-3.484	0	%100
54	M45A	Z	-6.034	-6.034	0	%100
55	M48	X	-3.484	-3.484	0	%100
56	M48	Z	-6.034	-6.034	0	%100
57	M49	X	-.075	-.075	0	%100
58	M49	Z	-.13	-.13	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-3.865	-3.865	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-3.865	-3.865	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	-1.602	-1.602	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	-1.602	-1.602	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	-1.602	-1.602	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	-1.602	-1.602	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	-1.62	-1.62	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,%]
23	M22	X	0	0	0	%100
24	M22	Z	-1.62	-1.62	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	-1.62	-1.62	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-1.62	-1.62	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-1.86	-1.86	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-1.86	-1.86	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-1.86	-1.86	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-1.86	-1.86	0	%100
37	M44	X	0	0	0	%100
38	M44	Z	-1.968	-1.968	0	%100
39	M45	X	0	0	0	%100
40	M45	Z	-1.968	-1.968	0	%100
41	M46	X	0	0	0	%100
42	M46	Z	-1.968	-1.968	0	%100
43	M47	X	0	0	0	%100
44	M47	Z	-1.968	-1.968	0	%100
45	MP1A	X	0	0	0	%100
46	MP1A	Z	-3.563	-3.563	0	%100
47	MP2A	X	0	0	0	%100
48	MP2A	Z	-3.563	-3.563	0	%100
49	MP3A	X	0	0	0	%100
50	MP3A	Z	-3.563	-3.563	0	%100
51	MP4A	X	0	0	0	%100
52	MP4A	Z	-3.563	-3.563	0	%100
53	M45A	X	0	0	0	%100
54	M45A	Z	-3.009	-3.009	0	%100
55	M48	X	0	0	0	%100
56	M48	Z	-3.009	-3.009	0	%100
57	M49	X	0	0	0	%100
58	M49	Z	-.488	-.488	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.449	1.449	0	%100
2	M1	Z	-2.51	-2.51	0	%100
3	M2	X	1.449	1.449	0	%100
4	M2	Z	-2.51	-2.51	0	%100
5	M13	X	.202	.202	0	%100
6	M13	Z	-.351	-.351	0	%100
7	M14	X	.202	.202	0	%100
8	M14	Z	-.351	-.351	0	%100
9	M15	X	.202	.202	0	%100
10	M15	Z	-.351	-.351	0	%100
11	M16	X	.202	.202	0	%100
12	M16	Z	-.351	-.351	0	%100
13	M17	X	.18	.18	0	%100
14	M17	Z	-.312	-.312	0	%100
15	M18	X	.18	.18	0	%100
16	M18	Z	-.312	-.312	0	%100
17	M19	X	1.267	1.267	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,%]
18	M19	Z	-2.194	-2.194	0	%100
19	M20	X	1.267	1.267	0	%100
20	M20	Z	-2.194	-2.194	0	%100
21	M21	X	.607	.607	0	%100
22	M21	Z	-1.052	-1.052	0	%100
23	M22	X	.607	.607	0	%100
24	M22	Z	-1.052	-1.052	0	%100
25	M23	X	.607	.607	0	%100
26	M23	Z	-1.052	-1.052	0	%100
27	M24	X	.607	.607	0	%100
28	M24	Z	-1.052	-1.052	0	%100
29	M25	X	.744	.744	0	%100
30	M25	Z	-1.288	-1.288	0	%100
31	M26	X	.744	.744	0	%100
32	M26	Z	-1.288	-1.288	0	%100
33	M27	X	1.07	1.07	0	%100
34	M27	Z	-1.853	-1.853	0	%100
35	M28	X	1.07	1.07	0	%100
36	M28	Z	-1.853	-1.853	0	%100
37	M44	X	.984	.984	0	%100
38	M44	Z	-1.704	-1.704	0	%100
39	M45	X	.984	.984	0	%100
40	M45	Z	-1.704	-1.704	0	%100
41	M46	X	.984	.984	0	%100
42	M46	Z	-1.704	-1.704	0	%100
43	M47	X	.984	.984	0	%100
44	M47	Z	-1.704	-1.704	0	%100
45	MP1A	X	1.782	1.782	0	%100
46	MP1A	Z	-3.086	-3.086	0	%100
47	MP2A	X	1.782	1.782	0	%100
48	MP2A	Z	-3.086	-3.086	0	%100
49	MP3A	X	1.782	1.782	0	%100
50	MP3A	Z	-3.086	-3.086	0	%100
51	MP4A	X	1.782	1.782	0	%100
52	MP4A	Z	-3.086	-3.086	0	%100
53	M45A	X	1.504	1.504	0	%100
54	M45A	Z	-2.605	-2.605	0	%100
55	M48	X	1.504	1.504	0	%100
56	M48	Z	-2.605	-2.605	0	%100
57	M49	X	1.085	1.085	0	%100
58	M49	Z	-1.88	-1.88	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.837	.837	0	%100
2	M1	Z	-.483	-.483	0	%100
3	M2	X	.837	.837	0	%100
4	M2	Z	-.483	-.483	0	%100
5	M13	X	1.052	1.052	0	%100
6	M13	Z	-.607	-.607	0	%100
7	M14	X	1.052	1.052	0	%100
8	M14	Z	-.607	-.607	0	%100
9	M15	X	1.052	1.052	0	%100
10	M15	Z	-.607	-.607	0	%100
11	M16	X	1.052	1.052	0	%100
12	M16	Z	-.607	-.607	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,%]
13	M17	X	.044	.044	0	%100
14	M17	Z	-.025	-.025	0	%100
15	M18	X	.044	.044	0	%100
16	M18	Z	-.025	-.025	0	%100
17	M19	X	1.926	1.926	0	%100
18	M19	Z	-1.112	-1.112	0	%100
19	M20	X	1.926	1.926	0	%100
20	M20	Z	-1.112	-1.112	0	%100
21	M21	X	.351	.351	0	%100
22	M21	Z	-.202	-.202	0	%100
23	M22	X	.351	.351	0	%100
24	M22	Z	-.202	-.202	0	%100
25	M23	X	.351	.351	0	%100
26	M23	Z	-.202	-.202	0	%100
27	M24	X	.351	.351	0	%100
28	M24	Z	-.202	-.202	0	%100
29	M25	X	1.208	1.208	0	%100
30	M25	Z	-.697	-.697	0	%100
31	M26	X	1.208	1.208	0	%100
32	M26	Z	-.697	-.697	0	%100
33	M27	X	1.773	1.773	0	%100
34	M27	Z	-1.023	-1.023	0	%100
35	M28	X	1.773	1.773	0	%100
36	M28	Z	-1.023	-1.023	0	%100
37	M44	X	1.704	1.704	0	%100
38	M44	Z	-.984	-.984	0	%100
39	M45	X	1.704	1.704	0	%100
40	M45	Z	-.984	-.984	0	%100
41	M46	X	1.704	1.704	0	%100
42	M46	Z	-.984	-.984	0	%100
43	M47	X	1.704	1.704	0	%100
44	M47	Z	-.984	-.984	0	%100
45	MP1A	X	3.086	3.086	0	%100
46	MP1A	Z	-1.782	-1.782	0	%100
47	MP2A	X	3.086	3.086	0	%100
48	MP2A	Z	-1.782	-1.782	0	%100
49	MP3A	X	3.086	3.086	0	%100
50	MP3A	Z	-1.782	-1.782	0	%100
51	MP4A	X	3.086	3.086	0	%100
52	MP4A	Z	-1.782	-1.782	0	%100
53	M45A	X	2.605	2.605	0	%100
54	M45A	Z	-1.504	-1.504	0	%100
55	M48	X	2.605	2.605	0	%100
56	M48	Z	-1.504	-1.504	0	%100
57	M49	X	2.976	2.976	0	%100
58	M49	Z	-1.718	-1.718	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	1.62	1.62	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	1.62	1.62	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,%]
8	M14	Z	0	0	0	%100
9	M15	X	1.62	1.62	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	1.62	1.62	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	.982	.982	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	.982	.982	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	.982	.982	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	.982	.982	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	1.674	1.674	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	1.674	1.674	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	1.674	1.674	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	1.674	1.674	0	%100
36	M28	Z	0	0	0	%100
37	M44	X	1.968	1.968	0	%100
38	M44	Z	0	0	0	%100
39	M45	X	1.968	1.968	0	%100
40	M45	Z	0	0	0	%100
41	M46	X	1.968	1.968	0	%100
42	M46	Z	0	0	0	%100
43	M47	X	1.968	1.968	0	%100
44	M47	Z	0	0	0	%100
45	MP1A	X	3.563	3.563	0	%100
46	MP1A	Z	0	0	0	%100
47	MP2A	X	3.563	3.563	0	%100
48	MP2A	Z	0	0	0	%100
49	MP3A	X	3.563	3.563	0	%100
50	MP3A	Z	0	0	0	%100
51	MP4A	X	3.563	3.563	0	%100
52	MP4A	Z	0	0	0	%100
53	M45A	X	3.009	3.009	0	%100
54	M45A	Z	0	0	0	%100
55	M48	X	3.009	3.009	0	%100
56	M48	Z	0	0	0	%100
57	M49	X	3.018	3.018	0	%100
58	M49	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.837	.837	0	%100
2	M1	Z	.483	.483	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,%]
3	M2	X	.837	.837	0	%100
4	M2	Z	.483	.483	0	%100
5	M13	X	1.052	1.052	0	%100
6	M13	Z	.607	.607	0	%100
7	M14	X	1.052	1.052	0	%100
8	M14	Z	.607	.607	0	%100
9	M15	X	1.052	1.052	0	%100
10	M15	Z	.607	.607	0	%100
11	M16	X	1.052	1.052	0	%100
12	M16	Z	.607	.607	0	%100
13	M17	X	1.926	1.926	0	%100
14	M17	Z	1.112	1.112	0	%100
15	M18	X	1.926	1.926	0	%100
16	M18	Z	1.112	1.112	0	%100
17	M19	X	.044	.044	0	%100
18	M19	Z	.025	.025	0	%100
19	M20	X	.044	.044	0	%100
20	M20	Z	.025	.025	0	%100
21	M21	X	.351	.351	0	%100
22	M21	Z	.202	.202	0	%100
23	M22	X	.351	.351	0	%100
24	M22	Z	.202	.202	0	%100
25	M23	X	.351	.351	0	%100
26	M23	Z	.202	.202	0	%100
27	M24	X	.351	.351	0	%100
28	M24	Z	.202	.202	0	%100
29	M25	X	1.773	1.773	0	%100
30	M25	Z	1.023	1.023	0	%100
31	M26	X	1.773	1.773	0	%100
32	M26	Z	1.023	1.023	0	%100
33	M27	X	1.208	1.208	0	%100
34	M27	Z	.697	.697	0	%100
35	M28	X	1.208	1.208	0	%100
36	M28	Z	.697	.697	0	%100
37	M44	X	1.704	1.704	0	%100
38	M44	Z	.984	.984	0	%100
39	M45	X	1.704	1.704	0	%100
40	M45	Z	.984	.984	0	%100
41	M46	X	1.704	1.704	0	%100
42	M46	Z	.984	.984	0	%100
43	M47	X	1.704	1.704	0	%100
44	M47	Z	.984	.984	0	%100
45	MP1A	X	3.086	3.086	0	%100
46	MP1A	Z	1.782	1.782	0	%100
47	MP2A	X	3.086	3.086	0	%100
48	MP2A	Z	1.782	1.782	0	%100
49	MP3A	X	3.086	3.086	0	%100
50	MP3A	Z	1.782	1.782	0	%100
51	MP4A	X	3.086	3.086	0	%100
52	MP4A	Z	1.782	1.782	0	%100
53	M45A	X	2.605	2.605	0	%100
54	M45A	Z	1.504	1.504	0	%100
55	M48	X	2.605	2.605	0	%100
56	M48	Z	1.504	1.504	0	%100
57	M49	X	1.156	1.156	0	%100
58	M49	Z	.668	.668	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.449	1.449	0	%100
2	M1	Z	2.51	2.51	0	%100
3	M2	X	1.449	1.449	0	%100
4	M2	Z	2.51	2.51	0	%100
5	M13	X	.202	.202	0	%100
6	M13	Z	.351	.351	0	%100
7	M14	X	.202	.202	0	%100
8	M14	Z	.351	.351	0	%100
9	M15	X	.202	.202	0	%100
10	M15	Z	.351	.351	0	%100
11	M16	X	.202	.202	0	%100
12	M16	Z	.351	.351	0	%100
13	M17	X	1.267	1.267	0	%100
14	M17	Z	2.194	2.194	0	%100
15	M18	X	1.267	1.267	0	%100
16	M18	Z	2.194	2.194	0	%100
17	M19	X	.18	.18	0	%100
18	M19	Z	.312	.312	0	%100
19	M20	X	.18	.18	0	%100
20	M20	Z	.312	.312	0	%100
21	M21	X	.607	.607	0	%100
22	M21	Z	1.052	1.052	0	%100
23	M22	X	.607	.607	0	%100
24	M22	Z	1.052	1.052	0	%100
25	M23	X	.607	.607	0	%100
26	M23	Z	1.052	1.052	0	%100
27	M24	X	.607	.607	0	%100
28	M24	Z	1.052	1.052	0	%100
29	M25	X	1.07	1.07	0	%100
30	M25	Z	1.853	1.853	0	%100
31	M26	X	1.07	1.07	0	%100
32	M26	Z	1.853	1.853	0	%100
33	M27	X	.744	.744	0	%100
34	M27	Z	1.288	1.288	0	%100
35	M28	X	.744	.744	0	%100
36	M28	Z	1.288	1.288	0	%100
37	M44	X	.984	.984	0	%100
38	M44	Z	1.704	1.704	0	%100
39	M45	X	.984	.984	0	%100
40	M45	Z	1.704	1.704	0	%100
41	M46	X	.984	.984	0	%100
42	M46	Z	1.704	1.704	0	%100
43	M47	X	.984	.984	0	%100
44	M47	Z	1.704	1.704	0	%100
45	MP1A	X	1.782	1.782	0	%100
46	MP1A	Z	3.086	3.086	0	%100
47	MP2A	X	1.782	1.782	0	%100
48	MP2A	Z	3.086	3.086	0	%100
49	MP3A	X	1.782	1.782	0	%100
50	MP3A	Z	3.086	3.086	0	%100
51	MP4A	X	1.782	1.782	0	%100
52	MP4A	Z	3.086	3.086	0	%100
53	M45A	X	1.504	1.504	0	%100
54	M45A	Z	2.605	2.605	0	%100
55	M48	X	1.504	1.504	0	%100
56	M48	Z	2.605	2.605	0	%100
57	M49	X	.035	.035	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M49	Z	.06	.06	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	3.865	3.865	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	3.865	3.865	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	1.602	1.602	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	1.602	1.602	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	1.602	1.602	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	1.602	1.602	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	1.62	1.62	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	1.62	1.62	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	1.62	1.62	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	1.62	1.62	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	1.86	1.86	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	1.86	1.86	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	1.86	1.86	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	1.86	1.86	0	%100
37	M44	X	0	0	0	%100
38	M44	Z	1.968	1.968	0	%100
39	M45	X	0	0	0	%100
40	M45	Z	1.968	1.968	0	%100
41	M46	X	0	0	0	%100
42	M46	Z	1.968	1.968	0	%100
43	M47	X	0	0	0	%100
44	M47	Z	1.968	1.968	0	%100
45	MP1A	X	0	0	0	%100
46	MP1A	Z	3.563	3.563	0	%100
47	MP2A	X	0	0	0	%100
48	MP2A	Z	3.563	3.563	0	%100
49	MP3A	X	0	0	0	%100
50	MP3A	Z	3.563	3.563	0	%100
51	MP4A	X	0	0	0	%100
52	MP4A	Z	3.563	3.563	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,%]
53	M45A	X	0	0	0	%100
54	M45A	Z	3.009	3.009	0	%100
55	M48	X	0	0	0	%100
56	M48	Z	3.009	3.009	0	%100
57	M49	X	0	0	0	%100
58	M49	Z	.488	.488	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.449	-1.449	0	%100
2	M1	Z	2.51	2.51	0	%100
3	M2	X	-1.449	-1.449	0	%100
4	M2	Z	2.51	2.51	0	%100
5	M13	X	-.202	-.202	0	%100
6	M13	Z	.351	.351	0	%100
7	M14	X	-.202	-.202	0	%100
8	M14	Z	.351	.351	0	%100
9	M15	X	-.202	-.202	0	%100
10	M15	Z	.351	.351	0	%100
11	M16	X	-.202	-.202	0	%100
12	M16	Z	.351	.351	0	%100
13	M17	X	-.18	-.18	0	%100
14	M17	Z	.312	.312	0	%100
15	M18	X	-.18	-.18	0	%100
16	M18	Z	.312	.312	0	%100
17	M19	X	-1.267	-1.267	0	%100
18	M19	Z	2.194	2.194	0	%100
19	M20	X	-1.267	-1.267	0	%100
20	M20	Z	2.194	2.194	0	%100
21	M21	X	-.607	-.607	0	%100
22	M21	Z	1.052	1.052	0	%100
23	M22	X	-.607	-.607	0	%100
24	M22	Z	1.052	1.052	0	%100
25	M23	X	-.607	-.607	0	%100
26	M23	Z	1.052	1.052	0	%100
27	M24	X	-.607	-.607	0	%100
28	M24	Z	1.052	1.052	0	%100
29	M25	X	-.744	-.744	0	%100
30	M25	Z	1.288	1.288	0	%100
31	M26	X	-.744	-.744	0	%100
32	M26	Z	1.288	1.288	0	%100
33	M27	X	-1.07	-1.07	0	%100
34	M27	Z	1.853	1.853	0	%100
35	M28	X	-1.07	-1.07	0	%100
36	M28	Z	1.853	1.853	0	%100
37	M44	X	-.984	-.984	0	%100
38	M44	Z	1.704	1.704	0	%100
39	M45	X	-.984	-.984	0	%100
40	M45	Z	1.704	1.704	0	%100
41	M46	X	-.984	-.984	0	%100
42	M46	Z	1.704	1.704	0	%100
43	M47	X	-.984	-.984	0	%100
44	M47	Z	1.704	1.704	0	%100
45	MP1A	X	-1.782	-1.782	0	%100
46	MP1A	Z	3.086	3.086	0	%100
47	MP2A	X	-1.782	-1.782	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,%]
48	MP2A	Z	3.086	3.086	0	%100
49	MP3A	X	-1.782	-1.782	0	%100
50	MP3A	Z	3.086	3.086	0	%100
51	MP4A	X	-1.782	-1.782	0	%100
52	MP4A	Z	3.086	3.086	0	%100
53	M45A	X	-1.504	-1.504	0	%100
54	M45A	Z	2.605	2.605	0	%100
55	M48	X	-1.504	-1.504	0	%100
56	M48	Z	2.605	2.605	0	%100
57	M49	X	-1.085	-1.085	0	%100
58	M49	Z	1.88	1.88	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.837	-.837	0	%100
2	M1	Z	.483	.483	0	%100
3	M2	X	-.837	-.837	0	%100
4	M2	Z	.483	.483	0	%100
5	M13	X	-1.052	-1.052	0	%100
6	M13	Z	.607	.607	0	%100
7	M14	X	-1.052	-1.052	0	%100
8	M14	Z	.607	.607	0	%100
9	M15	X	-1.052	-1.052	0	%100
10	M15	Z	.607	.607	0	%100
11	M16	X	-1.052	-1.052	0	%100
12	M16	Z	.607	.607	0	%100
13	M17	X	-.044	-.044	0	%100
14	M17	Z	.025	.025	0	%100
15	M18	X	-.044	-.044	0	%100
16	M18	Z	.025	.025	0	%100
17	M19	X	-1.926	-1.926	0	%100
18	M19	Z	1.112	1.112	0	%100
19	M20	X	-1.926	-1.926	0	%100
20	M20	Z	1.112	1.112	0	%100
21	M21	X	-.351	-.351	0	%100
22	M21	Z	.202	.202	0	%100
23	M22	X	-.351	-.351	0	%100
24	M22	Z	.202	.202	0	%100
25	M23	X	-.351	-.351	0	%100
26	M23	Z	.202	.202	0	%100
27	M24	X	-.351	-.351	0	%100
28	M24	Z	.202	.202	0	%100
29	M25	X	-1.208	-1.208	0	%100
30	M25	Z	.697	.697	0	%100
31	M26	X	-1.208	-1.208	0	%100
32	M26	Z	.697	.697	0	%100
33	M27	X	-1.773	-1.773	0	%100
34	M27	Z	1.023	1.023	0	%100
35	M28	X	-1.773	-1.773	0	%100
36	M28	Z	1.023	1.023	0	%100
37	M44	X	-1.704	-1.704	0	%100
38	M44	Z	.984	.984	0	%100
39	M45	X	-1.704	-1.704	0	%100
40	M45	Z	.984	.984	0	%100
41	M46	X	-1.704	-1.704	0	%100
42	M46	Z	.984	.984	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,%]
43	M47	X	-1.704	-1.704	0	%100
44	M47	Z	.984	.984	0	%100
45	MP1A	X	-3.086	-3.086	0	%100
46	MP1A	Z	1.782	1.782	0	%100
47	MP2A	X	-3.086	-3.086	0	%100
48	MP2A	Z	1.782	1.782	0	%100
49	MP3A	X	-3.086	-3.086	0	%100
50	MP3A	Z	1.782	1.782	0	%100
51	MP4A	X	-3.086	-3.086	0	%100
52	MP4A	Z	1.782	1.782	0	%100
53	M45A	X	-2.605	-2.605	0	%100
54	M45A	Z	1.504	1.504	0	%100
55	M48	X	-2.605	-2.605	0	%100
56	M48	Z	1.504	1.504	0	%100
57	M49	X	-2.976	-2.976	0	%100
58	M49	Z	1.718	1.718	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	-1.62	-1.62	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	-1.62	-1.62	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	-1.62	-1.62	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	-1.62	-1.62	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	-.982	-.982	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	-.982	-.982	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	-.982	-.982	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	-.982	-.982	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	-1.674	-1.674	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	-1.674	-1.674	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	-1.674	-1.674	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	-1.674	-1.674	0	%100
36	M28	Z	0	0	0	%100
37	M44	X	-1.968	-1.968	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,%]
38	M44	Z	0	0	0	%100
39	M45	X	-1.968	-1.968	0	%100
40	M45	Z	0	0	0	%100
41	M46	X	-1.968	-1.968	0	%100
42	M46	Z	0	0	0	%100
43	M47	X	-1.968	-1.968	0	%100
44	M47	Z	0	0	0	%100
45	MP1A	X	-3.563	-3.563	0	%100
46	MP1A	Z	0	0	0	%100
47	MP2A	X	-3.563	-3.563	0	%100
48	MP2A	Z	0	0	0	%100
49	MP3A	X	-3.563	-3.563	0	%100
50	MP3A	Z	0	0	0	%100
51	MP4A	X	-3.563	-3.563	0	%100
52	MP4A	Z	0	0	0	%100
53	M45A	X	-3.009	-3.009	0	%100
54	M45A	Z	0	0	0	%100
55	M48	X	-3.009	-3.009	0	%100
56	M48	Z	0	0	0	%100
57	M49	X	-3.018	-3.018	0	%100
58	M49	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.837	-.837	0	%100
2	M1	Z	-.483	-.483	0	%100
3	M2	X	-.837	-.837	0	%100
4	M2	Z	-.483	-.483	0	%100
5	M13	X	-1.052	-1.052	0	%100
6	M13	Z	-.607	-.607	0	%100
7	M14	X	-1.052	-1.052	0	%100
8	M14	Z	-.607	-.607	0	%100
9	M15	X	-1.052	-1.052	0	%100
10	M15	Z	-.607	-.607	0	%100
11	M16	X	-1.052	-1.052	0	%100
12	M16	Z	-.607	-.607	0	%100
13	M17	X	-1.926	-1.926	0	%100
14	M17	Z	-1.112	-1.112	0	%100
15	M18	X	-1.926	-1.926	0	%100
16	M18	Z	-1.112	-1.112	0	%100
17	M19	X	-.044	-.044	0	%100
18	M19	Z	-.025	-.025	0	%100
19	M20	X	-.044	-.044	0	%100
20	M20	Z	-.025	-.025	0	%100
21	M21	X	-.351	-.351	0	%100
22	M21	Z	-.202	-.202	0	%100
23	M22	X	-.351	-.351	0	%100
24	M22	Z	-.202	-.202	0	%100
25	M23	X	-.351	-.351	0	%100
26	M23	Z	-.202	-.202	0	%100
27	M24	X	-.351	-.351	0	%100
28	M24	Z	-.202	-.202	0	%100
29	M25	X	-1.773	-1.773	0	%100
30	M25	Z	-1.023	-1.023	0	%100
31	M26	X	-1.773	-1.773	0	%100
32	M26	Z	-1.023	-1.023	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,%]
33	M27	X	-1.208	-1.208	0	%100
34	M27	Z	-.697	-.697	0	%100
35	M28	X	-1.208	-1.208	0	%100
36	M28	Z	-.697	-.697	0	%100
37	M44	X	-1.704	-1.704	0	%100
38	M44	Z	-.984	-.984	0	%100
39	M45	X	-1.704	-1.704	0	%100
40	M45	Z	-.984	-.984	0	%100
41	M46	X	-1.704	-1.704	0	%100
42	M46	Z	-.984	-.984	0	%100
43	M47	X	-1.704	-1.704	0	%100
44	M47	Z	-.984	-.984	0	%100
45	MP1A	X	-3.086	-3.086	0	%100
46	MP1A	Z	-1.782	-1.782	0	%100
47	MP2A	X	-3.086	-3.086	0	%100
48	MP2A	Z	-1.782	-1.782	0	%100
49	MP3A	X	-3.086	-3.086	0	%100
50	MP3A	Z	-1.782	-1.782	0	%100
51	MP4A	X	-3.086	-3.086	0	%100
52	MP4A	Z	-1.782	-1.782	0	%100
53	M45A	X	-2.605	-2.605	0	%100
54	M45A	Z	-1.504	-1.504	0	%100
55	M48	X	-2.605	-2.605	0	%100
56	M48	Z	-1.504	-1.504	0	%100
57	M49	X	-1.156	-1.156	0	%100
58	M49	Z	-.668	-.668	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.449	-1.449	0	%100
2	M1	Z	-2.51	-2.51	0	%100
3	M2	X	-1.449	-1.449	0	%100
4	M2	Z	-2.51	-2.51	0	%100
5	M13	X	-.202	-.202	0	%100
6	M13	Z	-.351	-.351	0	%100
7	M14	X	-.202	-.202	0	%100
8	M14	Z	-.351	-.351	0	%100
9	M15	X	-.202	-.202	0	%100
10	M15	Z	-.351	-.351	0	%100
11	M16	X	-.202	-.202	0	%100
12	M16	Z	-.351	-.351	0	%100
13	M17	X	-1.267	-1.267	0	%100
14	M17	Z	-2.194	-2.194	0	%100
15	M18	X	-1.267	-1.267	0	%100
16	M18	Z	-2.194	-2.194	0	%100
17	M19	X	-.18	-.18	0	%100
18	M19	Z	-.312	-.312	0	%100
19	M20	X	-.18	-.18	0	%100
20	M20	Z	-.312	-.312	0	%100
21	M21	X	-.607	-.607	0	%100
22	M21	Z	-1.052	-1.052	0	%100
23	M22	X	-.607	-.607	0	%100
24	M22	Z	-1.052	-1.052	0	%100
25	M23	X	-.607	-.607	0	%100
26	M23	Z	-1.052	-1.052	0	%100
27	M24	X	-.607	-.607	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,%]
28	M24	Z	-1.052	-1.052	0	%100
29	M25	X	-1.07	-1.07	0	%100
30	M25	Z	-1.853	-1.853	0	%100
31	M26	X	-1.07	-1.07	0	%100
32	M26	Z	-1.853	-1.853	0	%100
33	M27	X	-.744	-.744	0	%100
34	M27	Z	-1.288	-1.288	0	%100
35	M28	X	-.744	-.744	0	%100
36	M28	Z	-1.288	-1.288	0	%100
37	M44	X	-.984	-.984	0	%100
38	M44	Z	-1.704	-1.704	0	%100
39	M45	X	-.984	-.984	0	%100
40	M45	Z	-1.704	-1.704	0	%100
41	M46	X	-.984	-.984	0	%100
42	M46	Z	-1.704	-1.704	0	%100
43	M47	X	-.984	-.984	0	%100
44	M47	Z	-1.704	-1.704	0	%100
45	MP1A	X	-1.782	-1.782	0	%100
46	MP1A	Z	-3.086	-3.086	0	%100
47	MP2A	X	-1.782	-1.782	0	%100
48	MP2A	Z	-3.086	-3.086	0	%100
49	MP3A	X	-1.782	-1.782	0	%100
50	MP3A	Z	-3.086	-3.086	0	%100
51	MP4A	X	-1.782	-1.782	0	%100
52	MP4A	Z	-3.086	-3.086	0	%100
53	M45A	X	-1.504	-1.504	0	%100
54	M45A	Z	-2.605	-2.605	0	%100
55	M48	X	-1.504	-1.504	0	%100
56	M48	Z	-2.605	-2.605	0	%100
57	M49	X	-.035	-.035	0	%100
58	M49	Z	-.06	-.06	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-.625	-.625	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-.625	-.625	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	-.247	-.247	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	-.247	-.247	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	-.247	-.247	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	-.247	-.247	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	-.136	-.136	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,%]
23	M22	X	0	0	0	%100
24	M22	Z	-.136	-.136	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	-.136	-.136	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-.136	-.136	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-.141	-.141	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-.141	-.141	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-.141	-.141	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-.141	-.141	0	%100
37	M44	X	0	0	0	%100
38	M44	Z	-.136	-.136	0	%100
39	M45	X	0	0	0	%100
40	M45	Z	-.136	-.136	0	%100
41	M46	X	0	0	0	%100
42	M46	Z	-.136	-.136	0	%100
43	M47	X	0	0	0	%100
44	M47	Z	-.136	-.136	0	%100
45	MP1A	X	0	0	0	%100
46	MP1A	Z	-.516	-.516	0	%100
47	MP2A	X	0	0	0	%100
48	MP2A	Z	-.516	-.516	0	%100
49	MP3A	X	0	0	0	%100
50	MP3A	Z	-.516	-.516	0	%100
51	MP4A	X	0	0	0	%100
52	MP4A	Z	-.516	-.516	0	%100
53	M45A	X	0	0	0	%100
54	M45A	Z	-.474	-.474	0	%100
55	M48	X	0	0	0	%100
56	M48	Z	-.474	-.474	0	%100
57	M49	X	0	0	0	%100
58	M49	Z	-.072	-.072	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.234	.234	0	%100
2	M1	Z	-.406	-.406	0	%100
3	M2	X	.234	.234	0	%100
4	M2	Z	-.406	-.406	0	%100
5	M13	X	.017	.017	0	%100
6	M13	Z	-.029	-.029	0	%100
7	M14	X	.017	.017	0	%100
8	M14	Z	-.029	-.029	0	%100
9	M15	X	.017	.017	0	%100
10	M15	Z	-.029	-.029	0	%100
11	M16	X	.017	.017	0	%100
12	M16	Z	-.029	-.029	0	%100
13	M17	X	.028	.028	0	%100
14	M17	Z	-.048	-.048	0	%100
15	M18	X	.028	.028	0	%100
16	M18	Z	-.048	-.048	0	%100
17	M19	X	.195	.195	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,%]
18	M19	Z	-.338	-.338	0	%100
19	M20	X	.195	.195	0	%100
20	M20	Z	-.338	-.338	0	%100
21	M21	X	.051	.051	0	%100
22	M21	Z	-.088	-.088	0	%100
23	M22	X	.051	.051	0	%100
24	M22	Z	-.088	-.088	0	%100
25	M23	X	.051	.051	0	%100
26	M23	Z	-.088	-.088	0	%100
27	M24	X	.051	.051	0	%100
28	M24	Z	-.088	-.088	0	%100
29	M25	X	.056	.056	0	%100
30	M25	Z	-.097	-.097	0	%100
31	M26	X	.056	.056	0	%100
32	M26	Z	-.097	-.097	0	%100
33	M27	X	.081	.081	0	%100
34	M27	Z	-.14	-.14	0	%100
35	M28	X	.081	.081	0	%100
36	M28	Z	-.14	-.14	0	%100
37	M44	X	.068	.068	0	%100
38	M44	Z	-.118	-.118	0	%100
39	M45	X	.068	.068	0	%100
40	M45	Z	-.118	-.118	0	%100
41	M46	X	.068	.068	0	%100
42	M46	Z	-.118	-.118	0	%100
43	M47	X	.068	.068	0	%100
44	M47	Z	-.118	-.118	0	%100
45	MP1A	X	.258	.258	0	%100
46	MP1A	Z	-.447	-.447	0	%100
47	MP2A	X	.258	.258	0	%100
48	MP2A	Z	-.447	-.447	0	%100
49	MP3A	X	.258	.258	0	%100
50	MP3A	Z	-.447	-.447	0	%100
51	MP4A	X	.258	.258	0	%100
52	MP4A	Z	-.447	-.447	0	%100
53	M45A	X	.237	.237	0	%100
54	M45A	Z	-.411	-.411	0	%100
55	M48	X	.237	.237	0	%100
56	M48	Z	-.411	-.411	0	%100
57	M49	X	.16	.16	0	%100
58	M49	Z	-.277	-.277	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.135	.135	0	%100
2	M1	Z	-.078	-.078	0	%100
3	M2	X	.135	.135	0	%100
4	M2	Z	-.078	-.078	0	%100
5	M13	X	.088	.088	0	%100
6	M13	Z	-.051	-.051	0	%100
7	M14	X	.088	.088	0	%100
8	M14	Z	-.051	-.051	0	%100
9	M15	X	.088	.088	0	%100
10	M15	Z	-.051	-.051	0	%100
11	M16	X	.088	.088	0	%100
12	M16	Z	-.051	-.051	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,%]
13	M17	X	.007	.007	0	%100
14	M17	Z	-.004	-.004	0	%100
15	M18	X	.007	.007	0	%100
16	M18	Z	-.004	-.004	0	%100
17	M19	X	.296	.296	0	%100
18	M19	Z	-.171	-.171	0	%100
19	M20	X	.296	.296	0	%100
20	M20	Z	-.171	-.171	0	%100
21	M21	X	.029	.029	0	%100
22	M21	Z	-.017	-.017	0	%100
23	M22	X	.029	.029	0	%100
24	M22	Z	-.017	-.017	0	%100
25	M23	X	.029	.029	0	%100
26	M23	Z	-.017	-.017	0	%100
27	M24	X	.029	.029	0	%100
28	M24	Z	-.017	-.017	0	%100
29	M25	X	.091	.091	0	%100
30	M25	Z	-.053	-.053	0	%100
31	M26	X	.091	.091	0	%100
32	M26	Z	-.053	-.053	0	%100
33	M27	X	.134	.134	0	%100
34	M27	Z	-.077	-.077	0	%100
35	M28	X	.134	.134	0	%100
36	M28	Z	-.077	-.077	0	%100
37	M44	X	.118	.118	0	%100
38	M44	Z	-.068	-.068	0	%100
39	M45	X	.118	.118	0	%100
40	M45	Z	-.068	-.068	0	%100
41	M46	X	.118	.118	0	%100
42	M46	Z	-.068	-.068	0	%100
43	M47	X	.118	.118	0	%100
44	M47	Z	-.068	-.068	0	%100
45	MP1A	X	.447	.447	0	%100
46	MP1A	Z	-.258	-.258	0	%100
47	MP2A	X	.447	.447	0	%100
48	MP2A	Z	-.258	-.258	0	%100
49	MP3A	X	.447	.447	0	%100
50	MP3A	Z	-.258	-.258	0	%100
51	MP4A	X	.447	.447	0	%100
52	MP4A	Z	-.258	-.258	0	%100
53	M45A	X	.411	.411	0	%100
54	M45A	Z	-.237	-.237	0	%100
55	M48	X	.411	.411	0	%100
56	M48	Z	-.237	-.237	0	%100
57	M49	X	.438	.438	0	%100
58	M49	Z	-.253	-.253	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	.136	.136	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	.136	.136	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,%]
8	M14	Z	0	0	0	%100
9	M15	X	.136	.136	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	.136	.136	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	.151	.151	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	.151	.151	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	.151	.151	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	.151	.151	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	.127	.127	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	.127	.127	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	.127	.127	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	.127	.127	0	%100
36	M28	Z	0	0	0	%100
37	M44	X	.136	.136	0	%100
38	M44	Z	0	0	0	%100
39	M45	X	.136	.136	0	%100
40	M45	Z	0	0	0	%100
41	M46	X	.136	.136	0	%100
42	M46	Z	0	0	0	%100
43	M47	X	.136	.136	0	%100
44	M47	Z	0	0	0	%100
45	MP1A	X	.516	.516	0	%100
46	MP1A	Z	0	0	0	%100
47	MP2A	X	.516	.516	0	%100
48	MP2A	Z	0	0	0	%100
49	MP3A	X	.516	.516	0	%100
50	MP3A	Z	0	0	0	%100
51	MP4A	X	.516	.516	0	%100
52	MP4A	Z	0	0	0	%100
53	M45A	X	.474	.474	0	%100
54	M45A	Z	0	0	0	%100
55	M48	X	.474	.474	0	%100
56	M48	Z	0	0	0	%100
57	M49	X	.444	.444	0	%100
58	M49	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.135	.135	0	%100
2	M1	Z	.078	.078	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,%]
3	M2	X	.135	.135	0	%100
4	M2	Z	.078	.078	0	%100
5	M13	X	.088	.088	0	%100
6	M13	Z	.051	.051	0	%100
7	M14	X	.088	.088	0	%100
8	M14	Z	.051	.051	0	%100
9	M15	X	.088	.088	0	%100
10	M15	Z	.051	.051	0	%100
11	M16	X	.088	.088	0	%100
12	M16	Z	.051	.051	0	%100
13	M17	X	.296	.296	0	%100
14	M17	Z	.171	.171	0	%100
15	M18	X	.296	.296	0	%100
16	M18	Z	.171	.171	0	%100
17	M19	X	.007	.007	0	%100
18	M19	Z	.004	.004	0	%100
19	M20	X	.007	.007	0	%100
20	M20	Z	.004	.004	0	%100
21	M21	X	.029	.029	0	%100
22	M21	Z	.017	.017	0	%100
23	M22	X	.029	.029	0	%100
24	M22	Z	.017	.017	0	%100
25	M23	X	.029	.029	0	%100
26	M23	Z	.017	.017	0	%100
27	M24	X	.029	.029	0	%100
28	M24	Z	.017	.017	0	%100
29	M25	X	.134	.134	0	%100
30	M25	Z	.077	.077	0	%100
31	M26	X	.134	.134	0	%100
32	M26	Z	.077	.077	0	%100
33	M27	X	.091	.091	0	%100
34	M27	Z	.053	.053	0	%100
35	M28	X	.091	.091	0	%100
36	M28	Z	.053	.053	0	%100
37	M44	X	.118	.118	0	%100
38	M44	Z	.068	.068	0	%100
39	M45	X	.118	.118	0	%100
40	M45	Z	.068	.068	0	%100
41	M46	X	.118	.118	0	%100
42	M46	Z	.068	.068	0	%100
43	M47	X	.118	.118	0	%100
44	M47	Z	.068	.068	0	%100
45	MP1A	X	.447	.447	0	%100
46	MP1A	Z	.258	.258	0	%100
47	MP2A	X	.447	.447	0	%100
48	MP2A	Z	.258	.258	0	%100
49	MP3A	X	.447	.447	0	%100
50	MP3A	Z	.258	.258	0	%100
51	MP4A	X	.447	.447	0	%100
52	MP4A	Z	.258	.258	0	%100
53	M45A	X	.411	.411	0	%100
54	M45A	Z	.237	.237	0	%100
55	M48	X	.411	.411	0	%100
56	M48	Z	.237	.237	0	%100
57	M49	X	.17	.17	0	%100
58	M49	Z	.098	.098	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.234	.234	0	%100
2	M1	Z	.406	.406	0	%100
3	M2	X	.234	.234	0	%100
4	M2	Z	.406	.406	0	%100
5	M13	X	.017	.017	0	%100
6	M13	Z	.029	.029	0	%100
7	M14	X	.017	.017	0	%100
8	M14	Z	.029	.029	0	%100
9	M15	X	.017	.017	0	%100
10	M15	Z	.029	.029	0	%100
11	M16	X	.017	.017	0	%100
12	M16	Z	.029	.029	0	%100
13	M17	X	.195	.195	0	%100
14	M17	Z	.338	.338	0	%100
15	M18	X	.195	.195	0	%100
16	M18	Z	.338	.338	0	%100
17	M19	X	.028	.028	0	%100
18	M19	Z	.048	.048	0	%100
19	M20	X	.028	.028	0	%100
20	M20	Z	.048	.048	0	%100
21	M21	X	.051	.051	0	%100
22	M21	Z	.088	.088	0	%100
23	M22	X	.051	.051	0	%100
24	M22	Z	.088	.088	0	%100
25	M23	X	.051	.051	0	%100
26	M23	Z	.088	.088	0	%100
27	M24	X	.051	.051	0	%100
28	M24	Z	.088	.088	0	%100
29	M25	X	.081	.081	0	%100
30	M25	Z	.14	.14	0	%100
31	M26	X	.081	.081	0	%100
32	M26	Z	.14	.14	0	%100
33	M27	X	.056	.056	0	%100
34	M27	Z	.097	.097	0	%100
35	M28	X	.056	.056	0	%100
36	M28	Z	.097	.097	0	%100
37	M44	X	.068	.068	0	%100
38	M44	Z	.118	.118	0	%100
39	M45	X	.068	.068	0	%100
40	M45	Z	.118	.118	0	%100
41	M46	X	.068	.068	0	%100
42	M46	Z	.118	.118	0	%100
43	M47	X	.068	.068	0	%100
44	M47	Z	.118	.118	0	%100
45	MP1A	X	.258	.258	0	%100
46	MP1A	Z	.447	.447	0	%100
47	MP2A	X	.258	.258	0	%100
48	MP2A	Z	.447	.447	0	%100
49	MP3A	X	.258	.258	0	%100
50	MP3A	Z	.447	.447	0	%100
51	MP4A	X	.258	.258	0	%100
52	MP4A	Z	.447	.447	0	%100
53	M45A	X	.237	.237	0	%100
54	M45A	Z	.411	.411	0	%100
55	M48	X	.237	.237	0	%100
56	M48	Z	.411	.411	0	%100
57	M49	X	.005	.005	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M49	Z	.009	.009	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	.625	.625	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	.625	.625	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	.247	.247	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	.247	.247	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	.247	.247	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	.247	.247	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	.136	.136	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	.136	.136	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	.136	.136	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	.136	.136	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	.141	.141	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	.141	.141	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	.141	.141	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	.141	.141	0	%100
37	M44	X	0	0	0	%100
38	M44	Z	.136	.136	0	%100
39	M45	X	0	0	0	%100
40	M45	Z	.136	.136	0	%100
41	M46	X	0	0	0	%100
42	M46	Z	.136	.136	0	%100
43	M47	X	0	0	0	%100
44	M47	Z	.136	.136	0	%100
45	MP1A	X	0	0	0	%100
46	MP1A	Z	.516	.516	0	%100
47	MP2A	X	0	0	0	%100
48	MP2A	Z	.516	.516	0	%100
49	MP3A	X	0	0	0	%100
50	MP3A	Z	.516	.516	0	%100
51	MP4A	X	0	0	0	%100
52	MP4A	Z	.516	.516	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,%]
53	M45A	X	0	0	0	%100
54	M45A	Z	.474	.474	0	%100
55	M48	X	0	0	0	%100
56	M48	Z	.474	.474	0	%100
57	M49	X	0	0	0	%100
58	M49	Z	.072	.072	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.234	-.234	0	%100
2	M1	Z	.406	.406	0	%100
3	M2	X	-.234	-.234	0	%100
4	M2	Z	.406	.406	0	%100
5	M13	X	-.017	-.017	0	%100
6	M13	Z	.029	.029	0	%100
7	M14	X	-.017	-.017	0	%100
8	M14	Z	.029	.029	0	%100
9	M15	X	-.017	-.017	0	%100
10	M15	Z	.029	.029	0	%100
11	M16	X	-.017	-.017	0	%100
12	M16	Z	.029	.029	0	%100
13	M17	X	-.028	-.028	0	%100
14	M17	Z	.048	.048	0	%100
15	M18	X	-.028	-.028	0	%100
16	M18	Z	.048	.048	0	%100
17	M19	X	-.195	-.195	0	%100
18	M19	Z	.338	.338	0	%100
19	M20	X	-.195	-.195	0	%100
20	M20	Z	.338	.338	0	%100
21	M21	X	-.051	-.051	0	%100
22	M21	Z	.088	.088	0	%100
23	M22	X	-.051	-.051	0	%100
24	M22	Z	.088	.088	0	%100
25	M23	X	-.051	-.051	0	%100
26	M23	Z	.088	.088	0	%100
27	M24	X	-.051	-.051	0	%100
28	M24	Z	.088	.088	0	%100
29	M25	X	-.056	-.056	0	%100
30	M25	Z	.097	.097	0	%100
31	M26	X	-.056	-.056	0	%100
32	M26	Z	.097	.097	0	%100
33	M27	X	-.081	-.081	0	%100
34	M27	Z	.14	.14	0	%100
35	M28	X	-.081	-.081	0	%100
36	M28	Z	.14	.14	0	%100
37	M44	X	-.068	-.068	0	%100
38	M44	Z	.118	.118	0	%100
39	M45	X	-.068	-.068	0	%100
40	M45	Z	.118	.118	0	%100
41	M46	X	-.068	-.068	0	%100
42	M46	Z	.118	.118	0	%100
43	M47	X	-.068	-.068	0	%100
44	M47	Z	.118	.118	0	%100
45	MP1A	X	-.258	-.258	0	%100
46	MP1A	Z	.447	.447	0	%100
47	MP2A	X	-.258	-.258	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,%]
48	MP2A	Z	.447	.447	0	%100
49	MP3A	X	-.258	-.258	0	%100
50	MP3A	Z	.447	.447	0	%100
51	MP4A	X	-.258	-.258	0	%100
52	MP4A	Z	.447	.447	0	%100
53	M45A	X	-.237	-.237	0	%100
54	M45A	Z	.411	.411	0	%100
55	M48	X	-.237	-.237	0	%100
56	M48	Z	.411	.411	0	%100
57	M49	X	-.16	-.16	0	%100
58	M49	Z	.277	.277	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.135	-.135	0	%100
2	M1	Z	.078	.078	0	%100
3	M2	X	-.135	-.135	0	%100
4	M2	Z	.078	.078	0	%100
5	M13	X	-.088	-.088	0	%100
6	M13	Z	.051	.051	0	%100
7	M14	X	-.088	-.088	0	%100
8	M14	Z	.051	.051	0	%100
9	M15	X	-.088	-.088	0	%100
10	M15	Z	.051	.051	0	%100
11	M16	X	-.088	-.088	0	%100
12	M16	Z	.051	.051	0	%100
13	M17	X	-.007	-.007	0	%100
14	M17	Z	.004	.004	0	%100
15	M18	X	-.007	-.007	0	%100
16	M18	Z	.004	.004	0	%100
17	M19	X	-.296	-.296	0	%100
18	M19	Z	.171	.171	0	%100
19	M20	X	-.296	-.296	0	%100
20	M20	Z	.171	.171	0	%100
21	M21	X	-.029	-.029	0	%100
22	M21	Z	.017	.017	0	%100
23	M22	X	-.029	-.029	0	%100
24	M22	Z	.017	.017	0	%100
25	M23	X	-.029	-.029	0	%100
26	M23	Z	.017	.017	0	%100
27	M24	X	-.029	-.029	0	%100
28	M24	Z	.017	.017	0	%100
29	M25	X	-.091	-.091	0	%100
30	M25	Z	.053	.053	0	%100
31	M26	X	-.091	-.091	0	%100
32	M26	Z	.053	.053	0	%100
33	M27	X	-.134	-.134	0	%100
34	M27	Z	.077	.077	0	%100
35	M28	X	-.134	-.134	0	%100
36	M28	Z	.077	.077	0	%100
37	M44	X	-.118	-.118	0	%100
38	M44	Z	.068	.068	0	%100
39	M45	X	-.118	-.118	0	%100
40	M45	Z	.068	.068	0	%100
41	M46	X	-.118	-.118	0	%100
42	M46	Z	.068	.068	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,%]
43	M47	X	-.118	-.118	0	%100
44	M47	Z	.068	.068	0	%100
45	MP1A	X	-.447	-.447	0	%100
46	MP1A	Z	.258	.258	0	%100
47	MP2A	X	-.447	-.447	0	%100
48	MP2A	Z	.258	.258	0	%100
49	MP3A	X	-.447	-.447	0	%100
50	MP3A	Z	.258	.258	0	%100
51	MP4A	X	-.447	-.447	0	%100
52	MP4A	Z	.258	.258	0	%100
53	M45A	X	-.411	-.411	0	%100
54	M45A	Z	.237	.237	0	%100
55	M48	X	-.411	-.411	0	%100
56	M48	Z	.237	.237	0	%100
57	M49	X	-.438	-.438	0	%100
58	M49	Z	.253	.253	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	-.136	-.136	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	-.136	-.136	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	-.136	-.136	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	-.136	-.136	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	-.151	-.151	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	-.151	-.151	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	-.151	-.151	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	-.151	-.151	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	-.127	-.127	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	-.127	-.127	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	-.127	-.127	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	-.127	-.127	0	%100
36	M28	Z	0	0	0	%100
37	M44	X	-.136	-.136	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,%]
38	M44	Z	0	0	0	%100
39	M45	X	-.136	-.136	0	%100
40	M45	Z	0	0	0	%100
41	M46	X	-.136	-.136	0	%100
42	M46	Z	0	0	0	%100
43	M47	X	-.136	-.136	0	%100
44	M47	Z	0	0	0	%100
45	MP1A	X	-.516	-.516	0	%100
46	MP1A	Z	0	0	0	%100
47	MP2A	X	-.516	-.516	0	%100
48	MP2A	Z	0	0	0	%100
49	MP3A	X	-.516	-.516	0	%100
50	MP3A	Z	0	0	0	%100
51	MP4A	X	-.516	-.516	0	%100
52	MP4A	Z	0	0	0	%100
53	M45A	X	-.474	-.474	0	%100
54	M45A	Z	0	0	0	%100
55	M48	X	-.474	-.474	0	%100
56	M48	Z	0	0	0	%100
57	M49	X	-.444	-.444	0	%100
58	M49	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.135	-.135	0	%100
2	M1	Z	-.078	-.078	0	%100
3	M2	X	-.135	-.135	0	%100
4	M2	Z	-.078	-.078	0	%100
5	M13	X	-.088	-.088	0	%100
6	M13	Z	-.051	-.051	0	%100
7	M14	X	-.088	-.088	0	%100
8	M14	Z	-.051	-.051	0	%100
9	M15	X	-.088	-.088	0	%100
10	M15	Z	-.051	-.051	0	%100
11	M16	X	-.088	-.088	0	%100
12	M16	Z	-.051	-.051	0	%100
13	M17	X	-.296	-.296	0	%100
14	M17	Z	-.171	-.171	0	%100
15	M18	X	-.296	-.296	0	%100
16	M18	Z	-.171	-.171	0	%100
17	M19	X	-.007	-.007	0	%100
18	M19	Z	-.004	-.004	0	%100
19	M20	X	-.007	-.007	0	%100
20	M20	Z	-.004	-.004	0	%100
21	M21	X	-.029	-.029	0	%100
22	M21	Z	-.017	-.017	0	%100
23	M22	X	-.029	-.029	0	%100
24	M22	Z	-.017	-.017	0	%100
25	M23	X	-.029	-.029	0	%100
26	M23	Z	-.017	-.017	0	%100
27	M24	X	-.029	-.029	0	%100
28	M24	Z	-.017	-.017	0	%100
29	M25	X	-.134	-.134	0	%100
30	M25	Z	-.077	-.077	0	%100
31	M26	X	-.134	-.134	0	%100
32	M26	Z	-.077	-.077	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,%]
33	M27	X	-.091	-.091	0	%100
34	M27	Z	-.053	-.053	0	%100
35	M28	X	-.091	-.091	0	%100
36	M28	Z	-.053	-.053	0	%100
37	M44	X	-.118	-.118	0	%100
38	M44	Z	-.068	-.068	0	%100
39	M45	X	-.118	-.118	0	%100
40	M45	Z	-.068	-.068	0	%100
41	M46	X	-.118	-.118	0	%100
42	M46	Z	-.068	-.068	0	%100
43	M47	X	-.118	-.118	0	%100
44	M47	Z	-.068	-.068	0	%100
45	MP1A	X	-.447	-.447	0	%100
46	MP1A	Z	-.258	-.258	0	%100
47	MP2A	X	-.447	-.447	0	%100
48	MP2A	Z	-.258	-.258	0	%100
49	MP3A	X	-.447	-.447	0	%100
50	MP3A	Z	-.258	-.258	0	%100
51	MP4A	X	-.447	-.447	0	%100
52	MP4A	Z	-.258	-.258	0	%100
53	M45A	X	-.411	-.411	0	%100
54	M45A	Z	-.237	-.237	0	%100
55	M48	X	-.411	-.411	0	%100
56	M48	Z	-.237	-.237	0	%100
57	M49	X	-.17	-.17	0	%100
58	M49	Z	-.098	-.098	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.234	-.234	0	%100
2	M1	Z	-.406	-.406	0	%100
3	M2	X	-.234	-.234	0	%100
4	M2	Z	-.406	-.406	0	%100
5	M13	X	-.017	-.017	0	%100
6	M13	Z	-.029	-.029	0	%100
7	M14	X	-.017	-.017	0	%100
8	M14	Z	-.029	-.029	0	%100
9	M15	X	-.017	-.017	0	%100
10	M15	Z	-.029	-.029	0	%100
11	M16	X	-.017	-.017	0	%100
12	M16	Z	-.029	-.029	0	%100
13	M17	X	-.195	-.195	0	%100
14	M17	Z	-.338	-.338	0	%100
15	M18	X	-.195	-.195	0	%100
16	M18	Z	-.338	-.338	0	%100
17	M19	X	-.028	-.028	0	%100
18	M19	Z	-.048	-.048	0	%100
19	M20	X	-.028	-.028	0	%100
20	M20	Z	-.048	-.048	0	%100
21	M21	X	-.051	-.051	0	%100
22	M21	Z	-.088	-.088	0	%100
23	M22	X	-.051	-.051	0	%100
24	M22	Z	-.088	-.088	0	%100
25	M23	X	-.051	-.051	0	%100
26	M23	Z	-.088	-.088	0	%100
27	M24	X	-.051	-.051	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,%]
28	M24	Z	-.088	-.088	0	%100
29	M25	X	-.081	-.081	0	%100
30	M25	Z	-.14	-.14	0	%100
31	M26	X	-.081	-.081	0	%100
32	M26	Z	-.14	-.14	0	%100
33	M27	X	-.056	-.056	0	%100
34	M27	Z	-.097	-.097	0	%100
35	M28	X	-.056	-.056	0	%100
36	M28	Z	-.097	-.097	0	%100
37	M44	X	-.068	-.068	0	%100
38	M44	Z	-.118	-.118	0	%100
39	M45	X	-.068	-.068	0	%100
40	M45	Z	-.118	-.118	0	%100
41	M46	X	-.068	-.068	0	%100
42	M46	Z	-.118	-.118	0	%100
43	M47	X	-.068	-.068	0	%100
44	M47	Z	-.118	-.118	0	%100
45	MP1A	X	-.258	-.258	0	%100
46	MP1A	Z	-.447	-.447	0	%100
47	MP2A	X	-.258	-.258	0	%100
48	MP2A	Z	-.447	-.447	0	%100
49	MP3A	X	-.258	-.258	0	%100
50	MP3A	Z	-.447	-.447	0	%100
51	MP4A	X	-.258	-.258	0	%100
52	MP4A	Z	-.447	-.447	0	%100
53	M45A	X	-.237	-.237	0	%100
54	M45A	Z	-.411	-.411	0	%100
55	M48	X	-.237	-.237	0	%100
56	M48	Z	-.411	-.411	0	%100
57	M49	X	-.005	-.005	0	%100
58	M49	Z	-.009	-.009	0	%100

Member Area Loads

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

Envelope Joint Reactions

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N35	max	617.428	49	1367.183	16	1925.224	13	-.383	9	0	51	.157	49
2		min	-596.315	4	425.648	9	-273.843	7	-1.388	15	0	1	-.121	40
3	N36	max	1429.096	10	1556.538	22	1170.2	11	-.356	5	0	51	.154	49
4		min	-1463.435	4	411.677	3	-2173.018	17	-1.531	23	0	1	-.122	40
5	N71A	max	557.001	4	46.069	22	1418.377	4	0	51	0	51	0	51
6		min	-541.624	10	14.333	6	-1427.403	10	0	1	0	1	0	1
7	Totals:	max	1502.749	10	2934.21	16	1657.207	1						
8		min	-1502.749	4	936.067	10	-1657.21	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	M1	PIPE_2.5	.270	8.724	11	.136	8.854		10	14558.792	50715	3.596	3.596	2...	H1-1b
2	M2	PIPE_2.5	.560	8.724	4	.189	8.854		10	14558.792	50715	3.596	3.596	3...	H1-1b
3	M13	PL5/8X4	.149	.422	19	.083	.422	y	8	77711.328	81000	1.055	6.75	1...	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
4	M14	PL5/8X4	.142	0	40	.087	.422	y	2	77711.328	81000	1.055	6.75	1....	H1-1b
5	M15	PL5/8X4	.161	.422	16	.094	.422	y	12	77711.328	81000	1.055	6.75	1....	H1-1b
6	M16	PL5/8X4	.234	.422	4	.315	.422	y	4	77711.328	81000	1.055	6.75	1....	H1-1b
7	M17	PIPE_2.0	.103	0	8	.075	0		14	31128.25	32130	1.872	1.872	2....	H1-1b
8	M18	PIPE_2.0	.115	2.501	3	.081	0		14	31128.25	32130	1.872	1.872	1....	H1-1b
9	M19	PIPE_2.0	.113	2.501	11	.102	0		14	31128.25	32130	1.872	1.872	1....	H1-1b
10	M20	PIPE_2.0	.377	0	4	.090	0		10	31128.25	32130	1.872	1.872	2....	H1-1b
11	M21	PL5/8X4	.284	.531	19	.060	.531	y	19	79411.08	81000	1.055	6.75	1....	H1-1b
12	M22	PL5/8X4	.416	.531	17	.125	.531	y	5	79411.08	81000	1.055	6.75	1....	H1-1b
13	M23	PL5/8X4	.304	.531	15	.035	.531	y	2	79411.08	81000	1.055	6.75	1....	H1-1b
14	M24	PL5/8X4	.339	.531	23	.061	.437	y	14	79411.08	81000	1.055	6.75	1....	H1-1b
15	M25	SR_0.75	.000	0	51	.012	0		4	1403.329	14313.866	.179	.179	1....	H1-1a
16	M26	SR_0.75	.058	0	18	.009	4.167		14	1403.329	14313.866	.179	.179	1....	H1-1b*
17	M27	SR_0.75	.000	0	51	.011	0		10	1403.329	14313.866	.179	.179	1....	H1-1a
18	M28	SR_0.75	.136	4.167	20	.013	4.167		13	1403.329	14313.866	.179	.179	1....	H1-1b*
19	M44	SR_0.625	.040	1.632	11	.008	0		4	1057.552	9940.19	.104	.104	1....	H1-1b
20	M45	SR_0.625	.046	1.632	8	.015	0		49	1057.552	9940.19	.104	.104	1....	H1-1b
21	M46	SR_0.625	.593	1.319	19	.013	0		49	1057.552	9940.19	.104	.104	1	H1-1a
22	M47	SR_0.625	.692	1.319	13	.005	0		39	1057.552	9940.19	.104	.104	1	H1-1a
23	MP1A	PIPE_2.0	.213	5.615	49	.112	2.382		4	14441.918	32130	1.872	1.872	4....	H1-1b
24	MP2A	PIPE_2.0	.217	2.382	16	.116	2.382		4	14441.918	32130	1.872	1.872	4....	H1-1b
25	MP3A	PIPE_2.0	.124	2.382	4	.030	5.615		3	14441.918	32130	1.872	1.872	3....	H1-1b
26	MP4A	PIPE_2.0	.172	2.382	22	.058	5.7		10	14441.918	32130	1.872	1.872	4....	H1-1b
27	M45A	PIPE_2.0	.032	1.999	10	.028	.383		10	26308.086	32130	1.872	1.872	1....	H1-1b
28	M48	PIPE_2.0	.032	1.999	10	.059	.383		4	26308.086	32130	1.872	1.872	1....	H1-1b
29	M49	PIPE_2.0	.085	6.927	4	.005	6.927		21	18073.008	32130	1.872	1.872	1....	H1-1b*

MASER CONSULTING — CONNECTICUT —

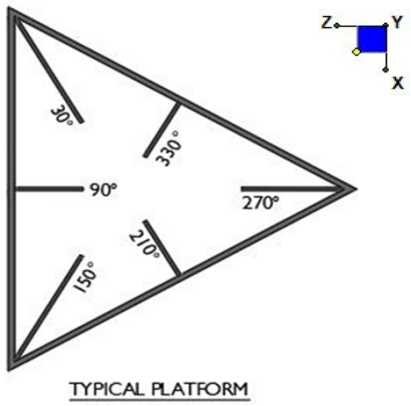
Client:	Verizon	Date:	5/3/2021
Site Name:	East Hartland CT		
Project No.	21777230A		
Title:	Mount Analysis	Page:	1

Version 3.1

I. Mount-to-Tower Connection Check

RISA Model Data

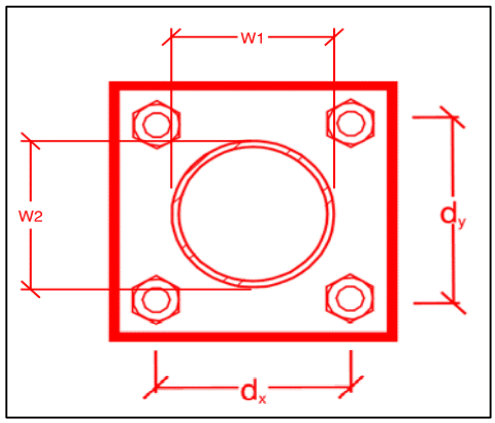
Nodes *(labeled per RISA)*	Orientation *(per graphic of typical platform)*
N36	90
N35	90



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)* :	9
d_y (in) *(Delta Y of typ. bolt config. sketch)* :	3.5
Bolt Type:	A307
Bolt Diameter (in):	0.5
Required Tensile Strength (kips):	12.3
Required Shear Strength (kips):	1.9
Tensile Strength / bolt (kips):	6.4
Shear Strength / bolt (kips):	3.8
Tensile Capacity Overall:	**47.8%***
Shear Capacity Overall:	**12.1%**



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

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Passing Mount Analysis

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

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

Base Requirements:

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

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: 467801-VZW - EAST HARTLAND CT

Sector: **A**

Structure Type: Self Support

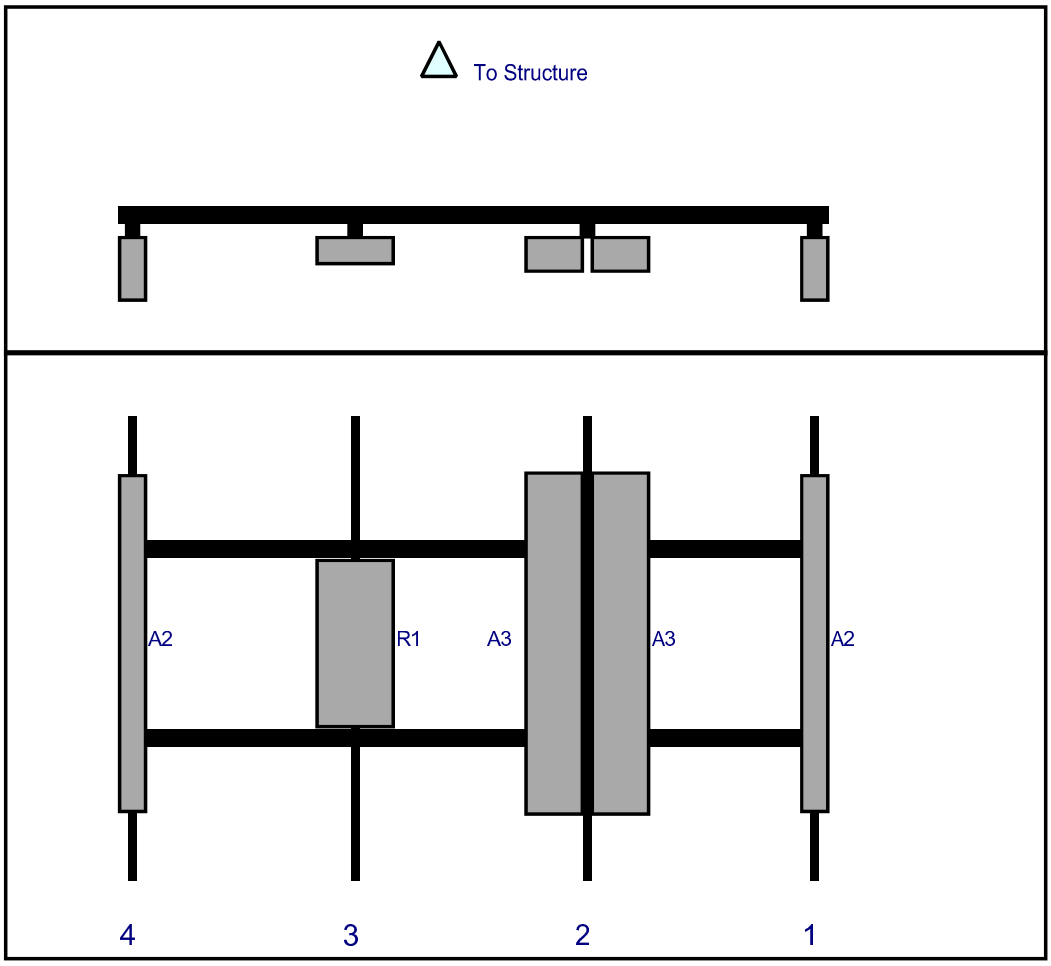
Mount Elev: 168.00

5/3/2021

MASER CONSULTING — CONNECTICUT —

Plan View

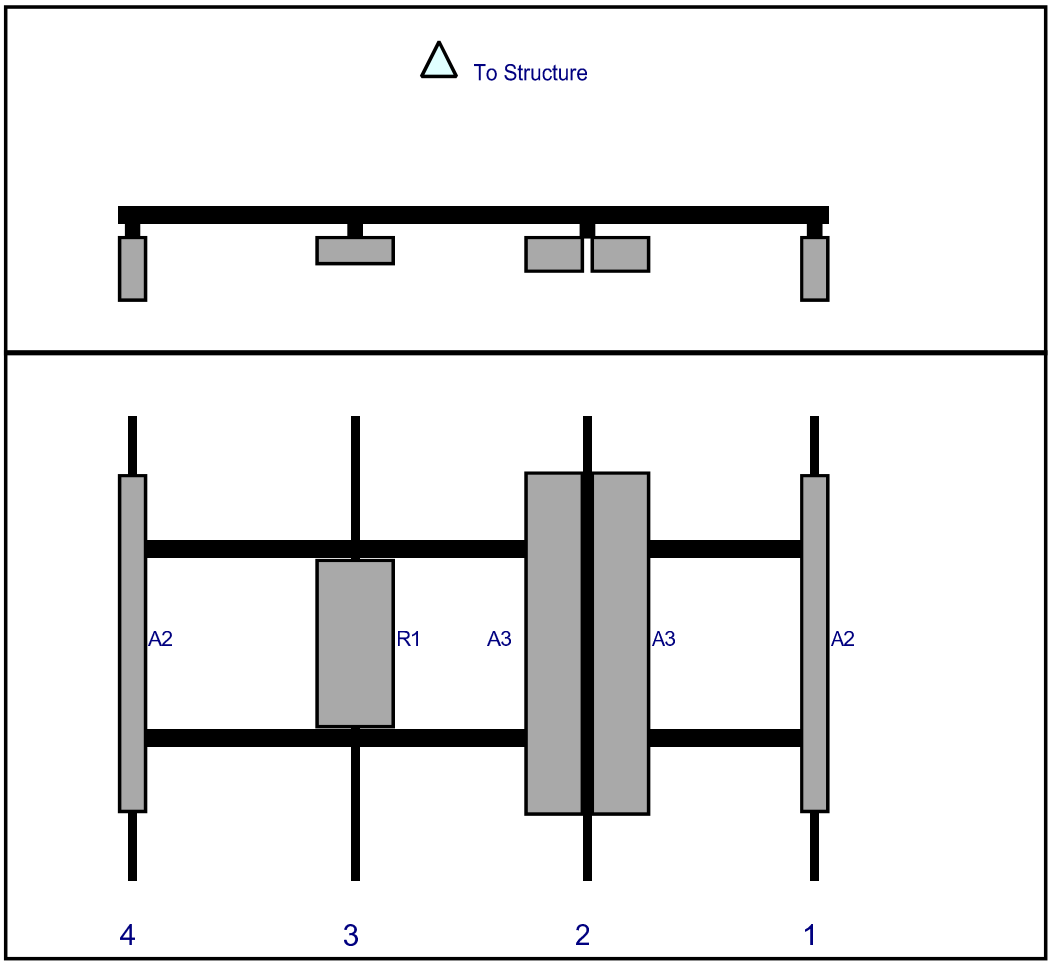
Front View
Looking at Structure



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
A2	LPA-80080/6CF	70.9	5.5	147	1	a	Front	48	0	Retained	03/30/2021
A3	NHH-65B-R2B	72	11.9	99	2	a	Front	48	7	Retained	03/30/2021
A3	NHH-65B-R2B	72	11.9	99	2	b	Front	48	-7	Retained	03/30/2021
R1	MT6407-77A	35.1	16.1	50	3	a	Front	48	0	Added	
A2	LPA-80080/6CF	70.9	5.5	3	4	a	Front	48	0	Retained	03/30/2021

Plan View

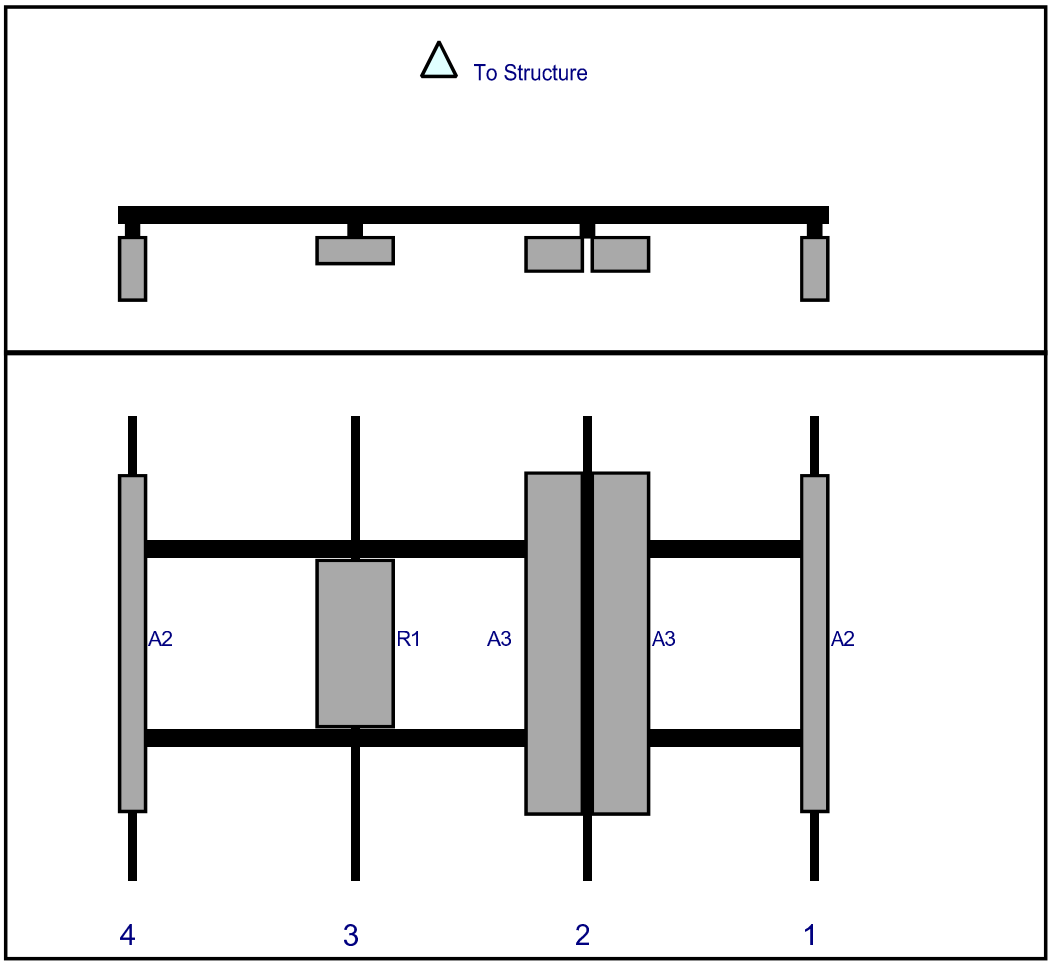
Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A2	LPA-80080/6CF	70.9	5.5	147	1	a	Front	48	0	Retained	03/30/2021
A3	NHH-65B-R2B	72	11.9	99	2	a	Front	48	7	Retained	03/30/2021
A3	NHH-65B-R2B	72	11.9	99	2	b	Front	48	-7	Retained	03/30/2021
R1	MT6407-77A	35.1	16.1	50	3	a	Front	48	0	Added	
A2	LPA-80080/6CF	70.9	5.5	3	4	a	Front	48	0	Retained	03/30/2021

Plan View

Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A2	LPA-80080/6CF	70.9	5.5	147	1	a	Front	48	0	Retained	03/30/2021
A3	NHH-65B-R2B	72	11.9	99	2	a	Front	48	7	Retained	03/30/2021
A3	NHH-65B-R2B	72	11.9	99	2	b	Front	48	-7	Retained	03/30/2021
R1	MT6407-77A	35.1	16.1	50	3	a	Front	48	0	Added	
A2	LPA-80080/6CF	70.9	5.5	3	4	a	Front	48	0	Retained	03/30/2021

Maser Consulting Connecticut

Subject	TIA-222-H Usage	
Site Information	Site ID:	467801-VZW / EAST HARTLAND CT
	Site Name:	EAST HARTLAND CT
	Carrier Name:	Verizon Wireless
	Address:	22 Welsh Road East Hartland, Connecticut 06027 Hartford County
	Latitude:	41.997522°
	Longitude:	-72.887733°
Structure Information	Tower Type:	Self Support
	Mount Type:	12.50-Ft Sector Frame

To Whom It May Concern,

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

The 2015 International Building Code states that, in Section 3108, telecommunication towers shall be designed and constructed in accordance with the provisions of TIA-222. 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,

Digitally signed by Justin Linette
Date: 2021.05.04 16:44:02-04'00'

Justin Linette, PE
Sr. Technical Manager

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 #: 10044578
Maser Consulting Connecticut Project #: 21777230A

May 3, 2021

Site Information	*Site ID:*	*467801-VZW / EAST HARTLAND CT*
	Site Name:	*EAST HARTLAND CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*22 Welsh Road* *East Hartland, Connecticut 06027* *Hartford County*
	Latitude:	*41.997522°*
	Longitude:	*-72.887733°*
Structure Information	*Tower Type:*	*Self Support*
	Mount Type:	*12.50-Ft Sector Frame*

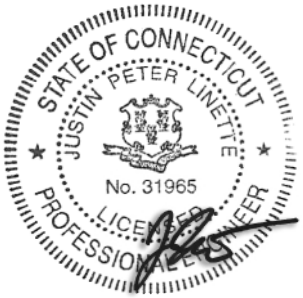
FUZE ID # 16272387

Analysis Results

Sector Frame: **69.2% Pass**

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

Report Prepared By: Andy Hanes



Digitally signed by Justin Linette
Date: 2021.05.04 16:43:34-04'00'

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: 674885, dated March 19, 2021*
Mount Mapping Report	*Roaming Networks Inc., Site ID: PSLC:467801, dated March 30, 2021*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}:	115 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.50 in
	Risk Category:	II
	Exposure Category:	B
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	0.962
Seismic Parameters:	S_S:	0.167
	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 mounts:

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
168.00	168.00	3	Samsung	MT6407-77A	Added
		6	Antel	LPA-80080/6CF	Retained
		6	Commscope	NHH-65B-R2B	
		1	Raycap	RRFDC-6627-PF-48*	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	

* Equipment is flush mounted directly to the self support tower. They are not mounted on sector frame mounts and are not included in this mount analysis.

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

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

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	47.8%	Pass
Standoff Plates	42.0%	Pass
Standoff Horizontal	38.0%	Pass
Standoff Bracing	68.5%	Pass
Face Horizontal	56.0%	Pass
Mount Pipe	22.0%	Pass
Stabilizer	9.0%	Pass

Structure Rating – *(Controlling Utilization of all Components)*	**68.5%**

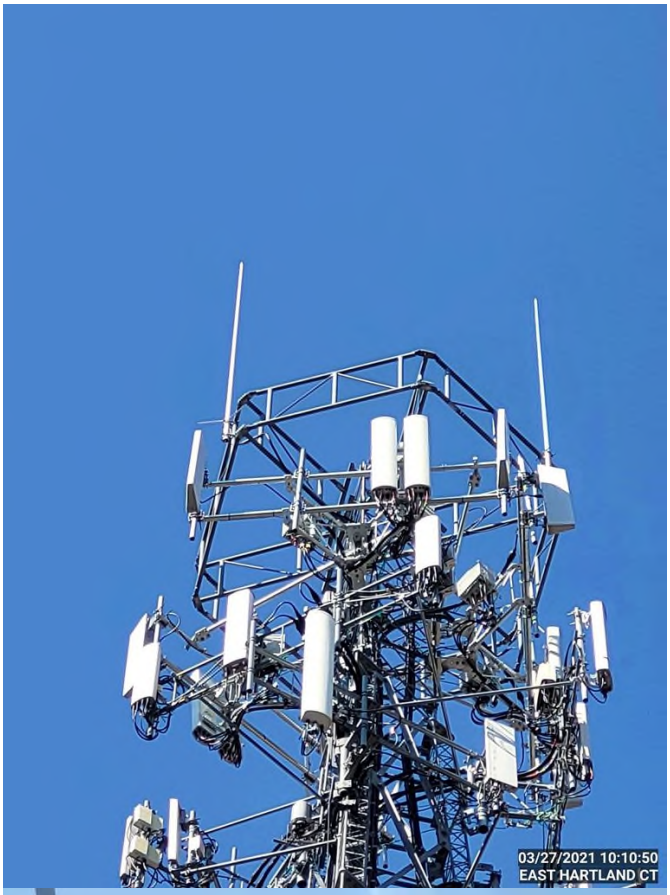
Recommendation:

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

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

Attachments:

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


03/27/2021 10:10:50
EAST HARTLAND CT


03/27/2021 11:48:58
-72.887608, 41.997695972222225
EAST HARTLAND CT

V3.0 Updated on 8-31-2020

PAUL J. FORD & COMPANY

Antenna Mount Mapping Form (PATENT PENDING)

FCC #
N/A

Tower Owner:	OTHER	**Mapping Date:**	3/30/2021
Site Name:	EAST HARTLAND CT	**Tower Type:**	Self Support
Site Number or ID:	PSLC 467801	**Tower Height (Ft.):**	N/A
Mapping Contractor:	Roaming Networks Inc.	**Mount Elevation (Ft.):**	170.5

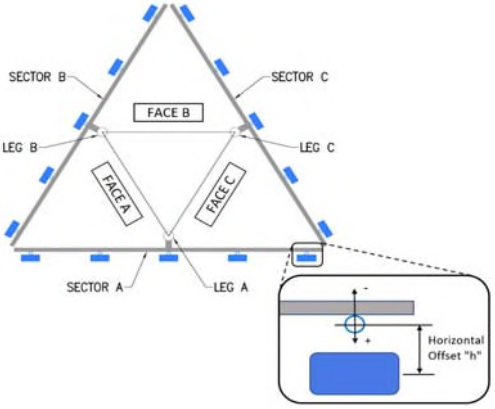
Mount Pipe Configuration and Geometries [Unit = Inches]

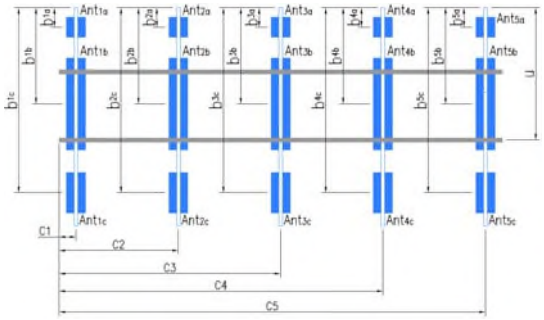
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	PIPE 2.4"Ø X 0.15" X 98" LONG	67.00	3.00	C1	PIPE 2.4"Ø X 0.15" X 98" LONG	67.00	3.00
A2	PIPE 2.4"Ø X 0.15" X 98" LONG	67.00	51.00	C2	PIPE 2.4"Ø X 0.15" X 98" LONG	67.00	51.00
A3	PIPE 2.4"Ø X 0.15" X 98" LONG	69.00	100.00	C3	PIPE 2.4"Ø X 0.15" X 98" LONG	69.00	100.00
A4	PIPE 2.4"Ø X 0.15" X 98" LONG	69.00	147.00	C4	PIPE 2.4"Ø X 0.15" X 98" LONG	69.00	147.00
A5				C5			
A6				C6			
B1	PIPE 2.4"Ø X 0.15" X 98" LONG	67.00	3.00	D1			
B2	PIPE 2.4"Ø X 0.15" X 98" LONG	67.00	51.00	D2			
B3	PIPE 2.4"Ø X 0.15" X 98" LONG	69.00	100.00	D3			
B4	PIPE 2.4"Ø X 0.15" X 98" LONG	69.00	147.00	D4			
B5				D5			
B6				D6			

Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :	20.00
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :	8.5
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :	

Please enter additional infomation or comments below.

Tower Face Width at Mount Elev. (ft.):	4	Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):	1.59



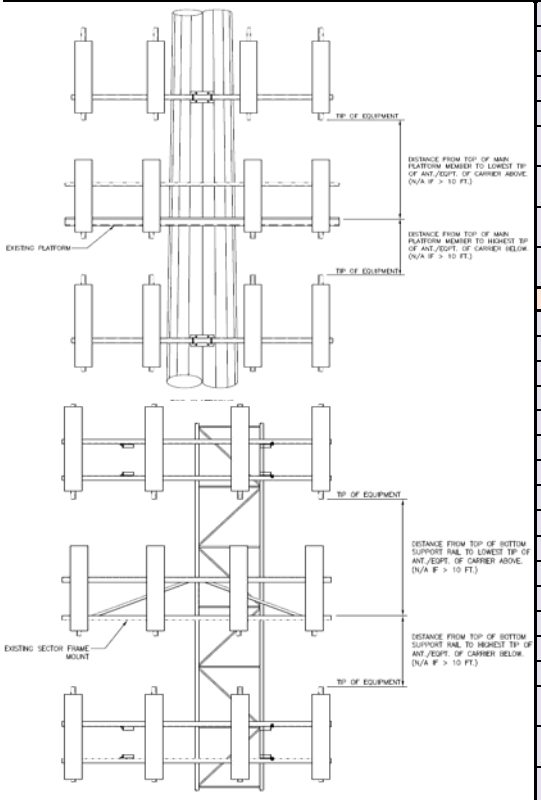


Antenna Layout (Looking Out From Tower)

Ants. Items	Enter antenna model. If not labeled, enter "Unknown". Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Mounting Locations [Units are inches and degrees] Vertical Distances"b_{1a}, b_{2a}, b_{3a}, b_{1b}...." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photos of antennas Photo Numbers
Sector A										
Ant_{1a}	Unknow	6.00	13.00	70.00		170.25	50.00	14.00	3.00	7,8,9
Ant_{1b}										
Ant_{1c}										
Ant_{2a}	NHH-65B-R2B	11.85	7.09	71.97		170.333	49.00	10.00	3.00	10
Ant_{2b}	NHH-65B-R2B	11.85	7.09	71.97		170.333	49.00	10.00	3.00	11
Ant_{2c}										
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}	Unknow	6.00	13.00	70.00		171	43.00	14.00	3.00	4,5,6
Ant_{4b}										
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff	RFV01U-D1A	15.00	10.00	15.00				15.00		12
Ant on Standoff	RFV01U-D2A	15.00	10.00	15.00				11.00		13
Ant on Tower										
Ant on Tower										

Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector	
Sector A:	3.00	Deg	Leg A:	89.00	Deg
Sector B:	78.00	Deg	Leg B:	209.00	Deg
Sector C:	204.00	Deg	Leg C:	329.00	Deg
Sector D:		Deg	Leg D:		Deg

Climbing Facility Information		
Location:	258.00 Deg	Sector B
Climbing Facility	Corrosion Type:	Good condition.
	Access:	Climbing path was unobstructed.
	Condition:	Good condition.



Sector B										
Ant_{1a}	Unknow	6.00	13.00	70.00		170.25	50.00	14.00	78.00	7,8,9
Ant_{1b}										
Ant_{1c}										
Ant_{2a}	NHH-65B-R2B	11.85	7.09	71.97		170.333	49.00	10.00	78.00	10
Ant_{2b}	NHH-65B-R2B	11.85	7.09	71.97		170.333	49.00	10.00	78.00	11
Ant_{2c}										
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}	Unknow	6.00	13.00	70.00		171	43.00	14.00	78.00	4,5,6
Ant_{4b}										
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff	RFV01U-D1A	15.00	10.00	15.00				15.00		12
Ant on Standoff	RFV01U-D2A	15.00	10.00	15.00				11.00		13
Ant on Tower										
Ant on Tower										
Sector C										
Ant_{1a}	Unknow	6.00	13.00	70.00		170.25	50.00	14.00	204.00	7,8,9
Ant_{1b}										
Ant_{1c}										
Ant_{2a}	NHH-65B-R2B	11.85	7.09	71.97		170.333	49.00	10.00	204.00	10
Ant_{2b}	NHH-65B-R2B	11.85	7.09	71.97		170.333	49.00	10.00	204.00	11
Ant_{2c}										
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}	Unknow	6.00	13.00	70.00		171	43.00	14.00	204.00	4,5,6
Ant_{4b}										
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff	RFV01U-D1A	15.00	10.00	15.00				15.00		12
Ant on Standoff	RFV01U-D2A	15.00	10.00	15.00				11.00		13
Ant on Tower										
Ant on Tower										
Sector D										
Ant_{1a}										
Ant_{1b}										
Ant_{1c}										
Ant_{2a}										
Ant_{2b}										
Ant_{2c}										
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}										
Ant_{4b}										
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Observed Safety and Structural Issues During the Mount Mapping		
Issue #	Description of Issue	Photo #

1		
2		
3		
4		
5		
6		
7		
8		

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

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

V3.0 Updated on 8-31-2020

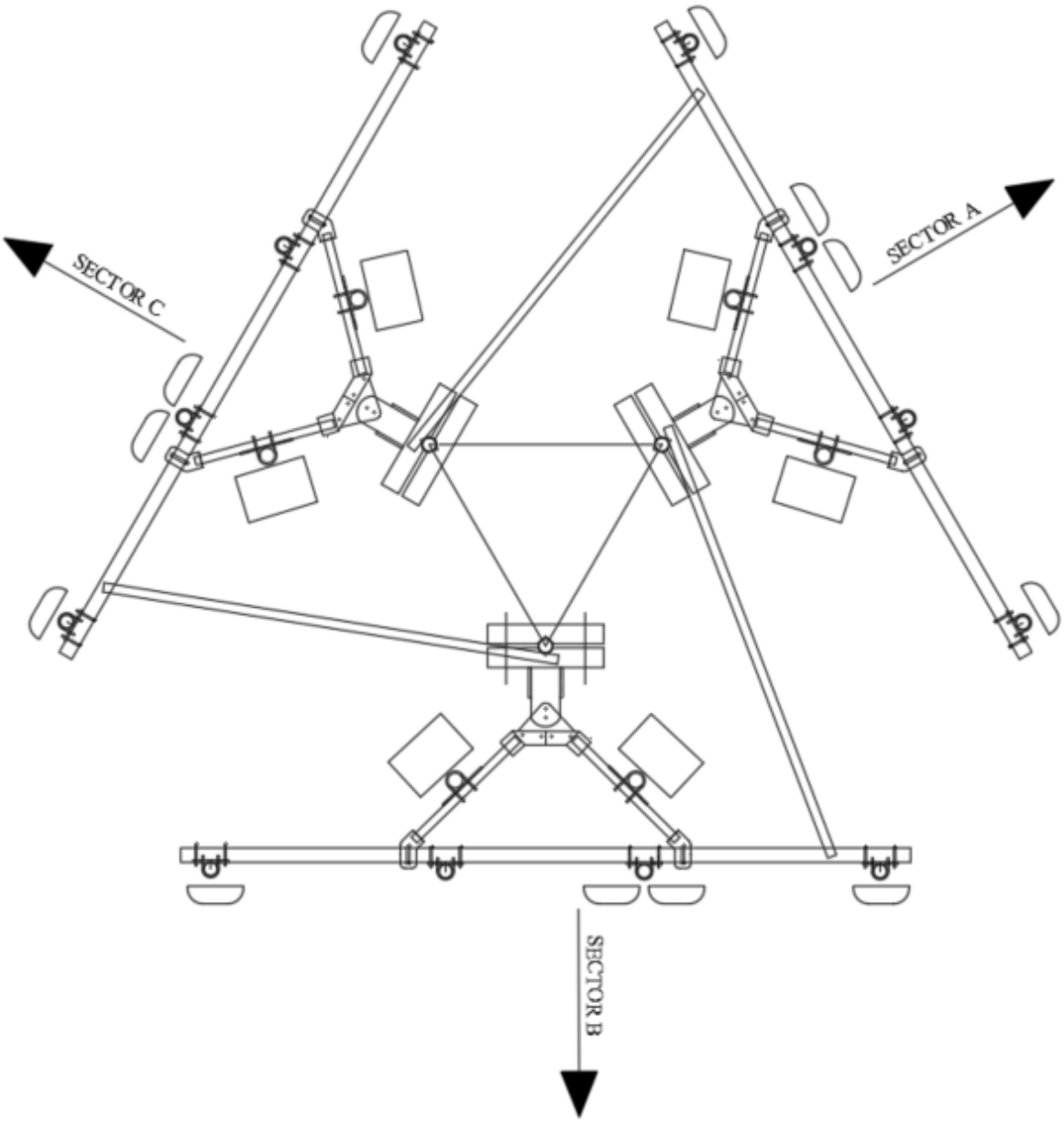
PAUL J. FORD & COMPANY

Antenna Mount Mapping Form (PATENT PENDING)

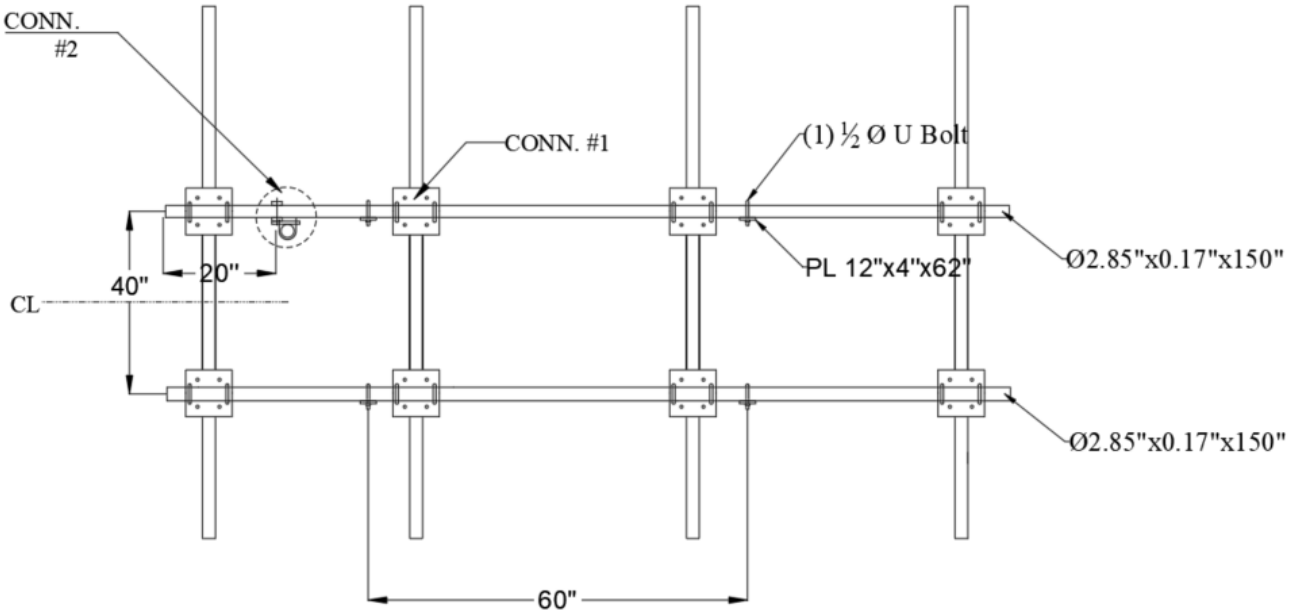
FCC #
N/A

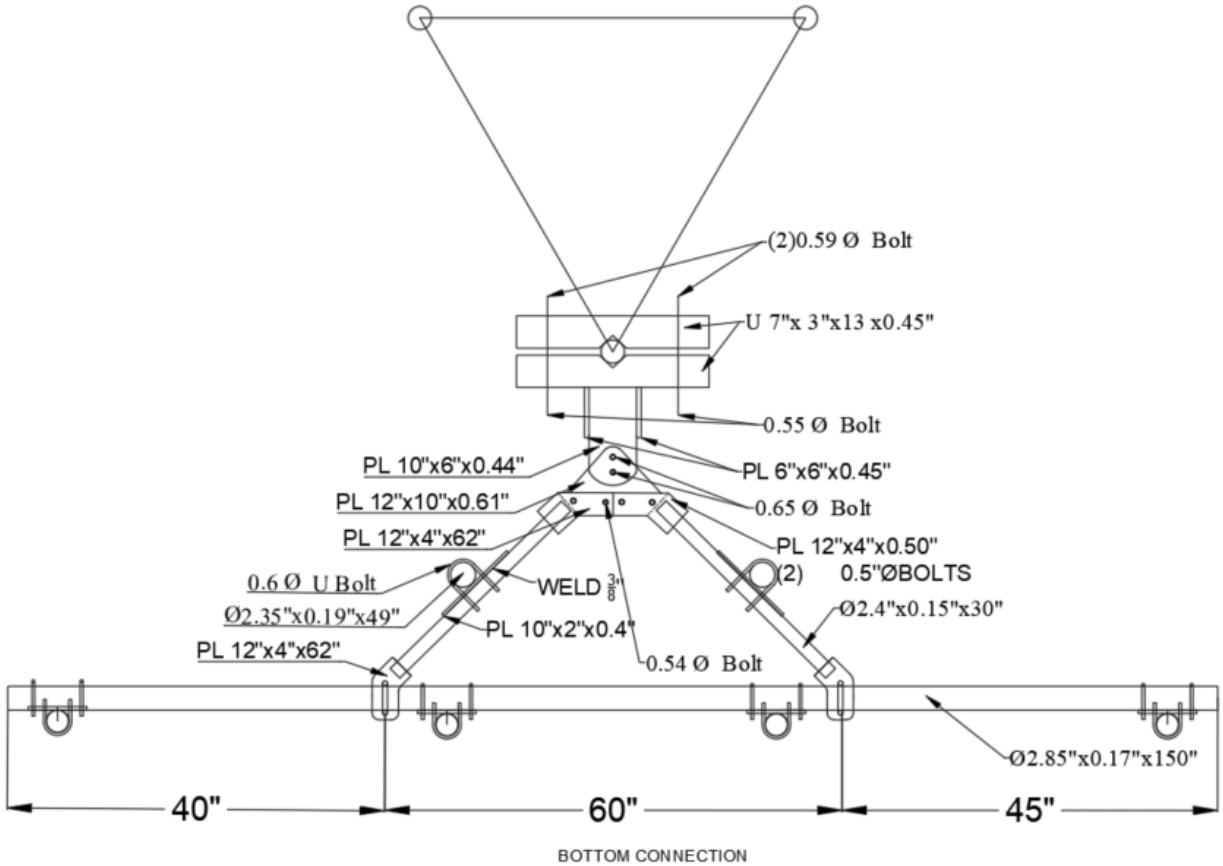
Tower Owner:	OTHER	**Mapping Date:**	3/30/2021
Site Name:	EAST HARTLAND CT	**Tower Type:**	Self Support
Site Number or ID:	PSLC 467801	**Tower Height (Ft.):**	N/A
Mapping Contractor:	Roaming Networks Inc.	**Mount Elevation (Ft.):**	170.5

Please Insert Sketches of the Antenna Mount



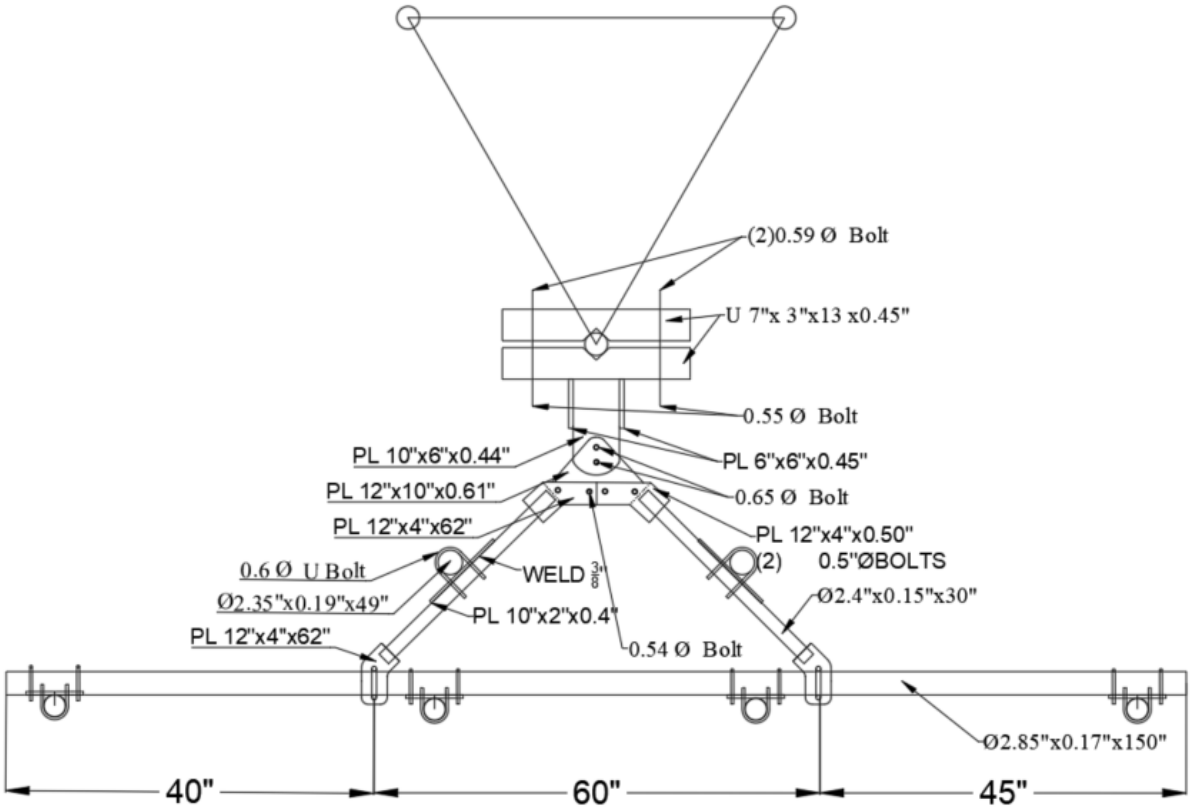
Please Insert Sketches of the Antenna Mount, cont'd

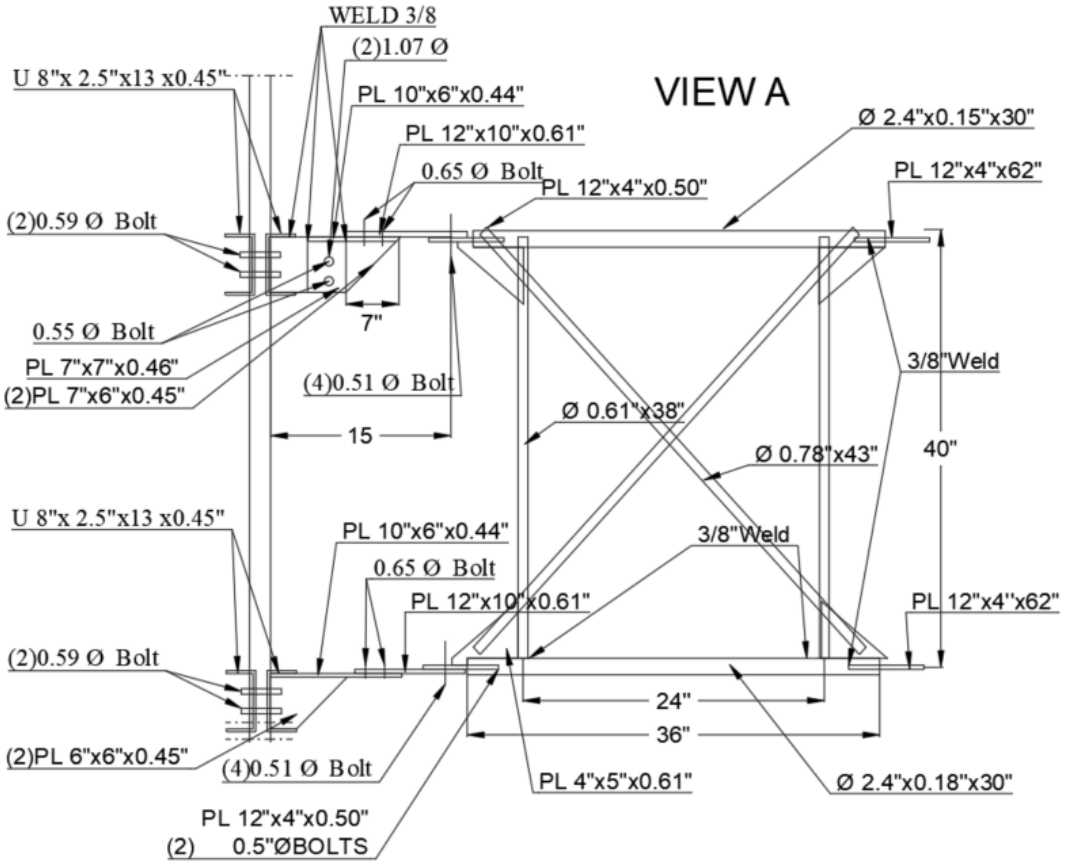




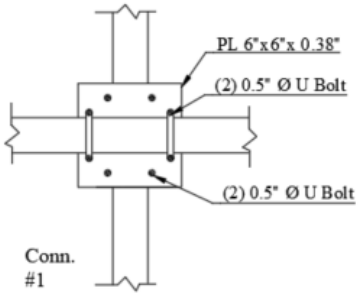
BOTTOM CONNECTION

Please Insert Sketches of the Antenna Mount, cont'd

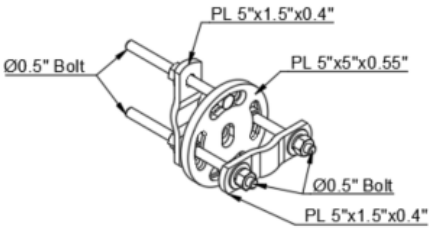




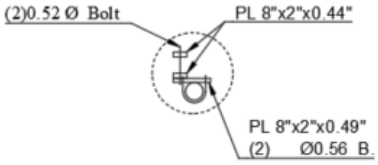
Please Insert Sketches of the Antenna Mount, cont'd



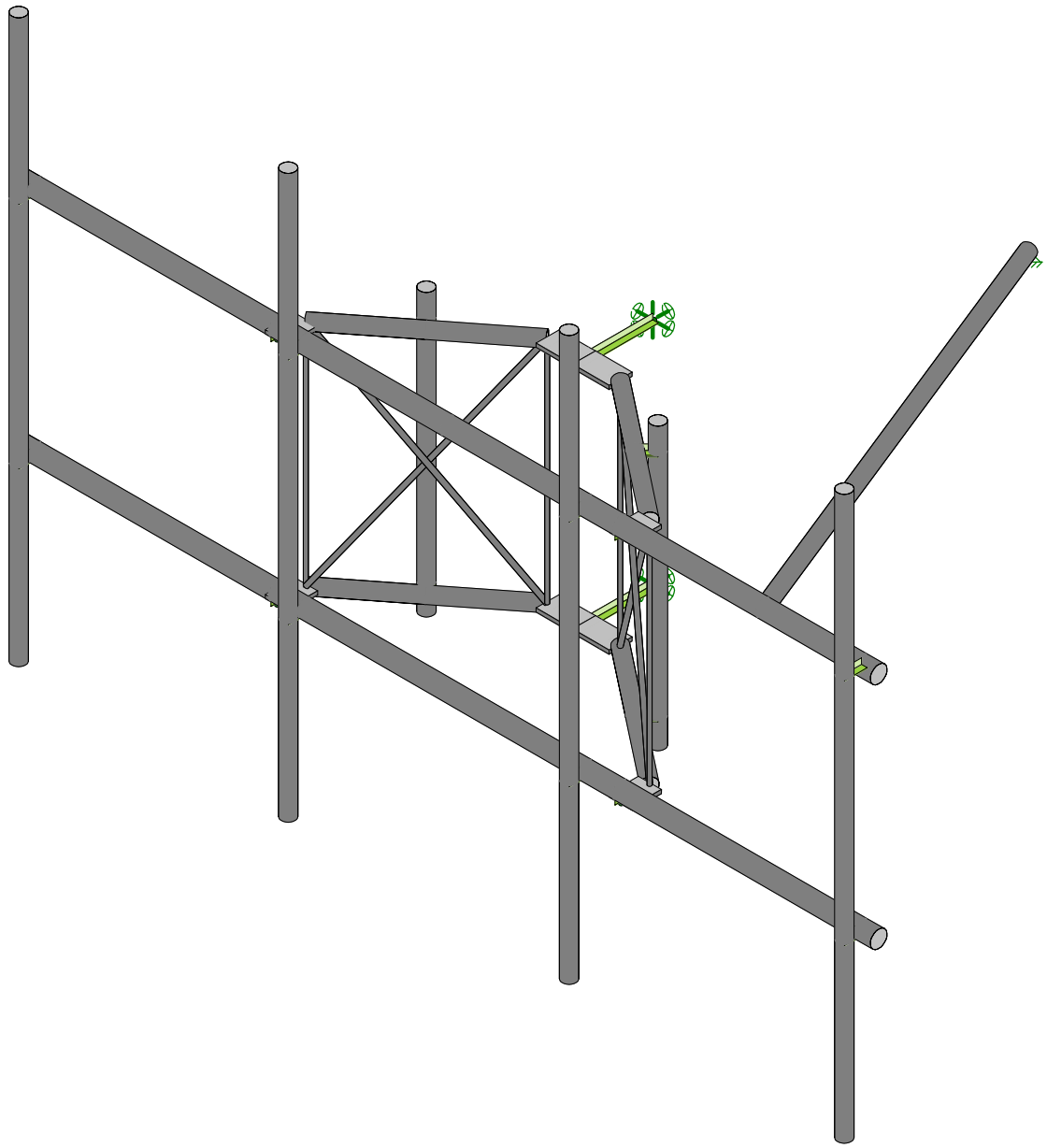
Conn.
#1



CONN.
#3



CONN.
#2



Envelope Only Solution

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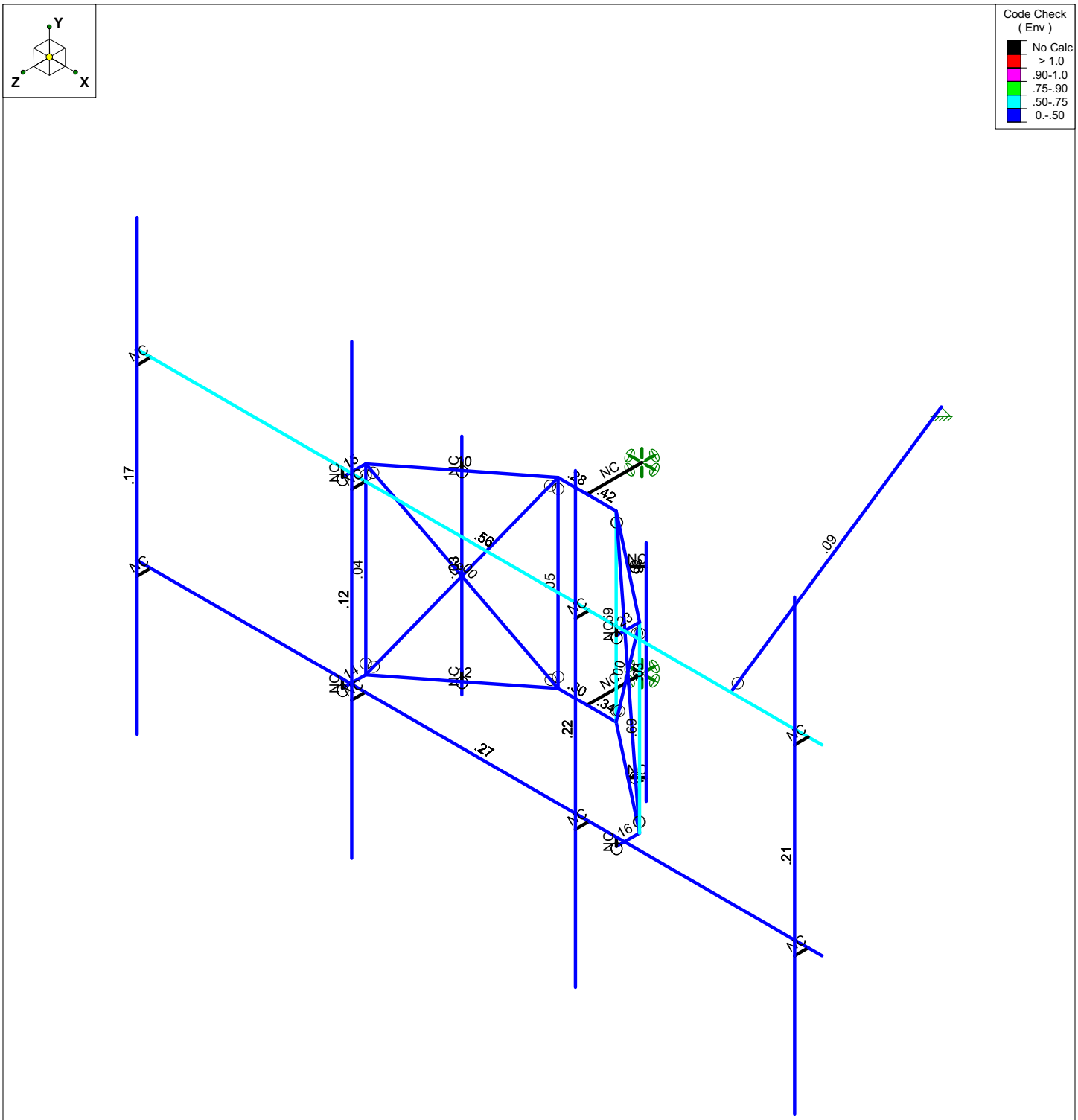
		Apr 30, 2021 at 5:58 PM
		467801-VZW_MT_LOT_A_H.r3d



Member Code Checks Displayed (Enveloped)
Loads: BLC 81,
Envelope Only Solution

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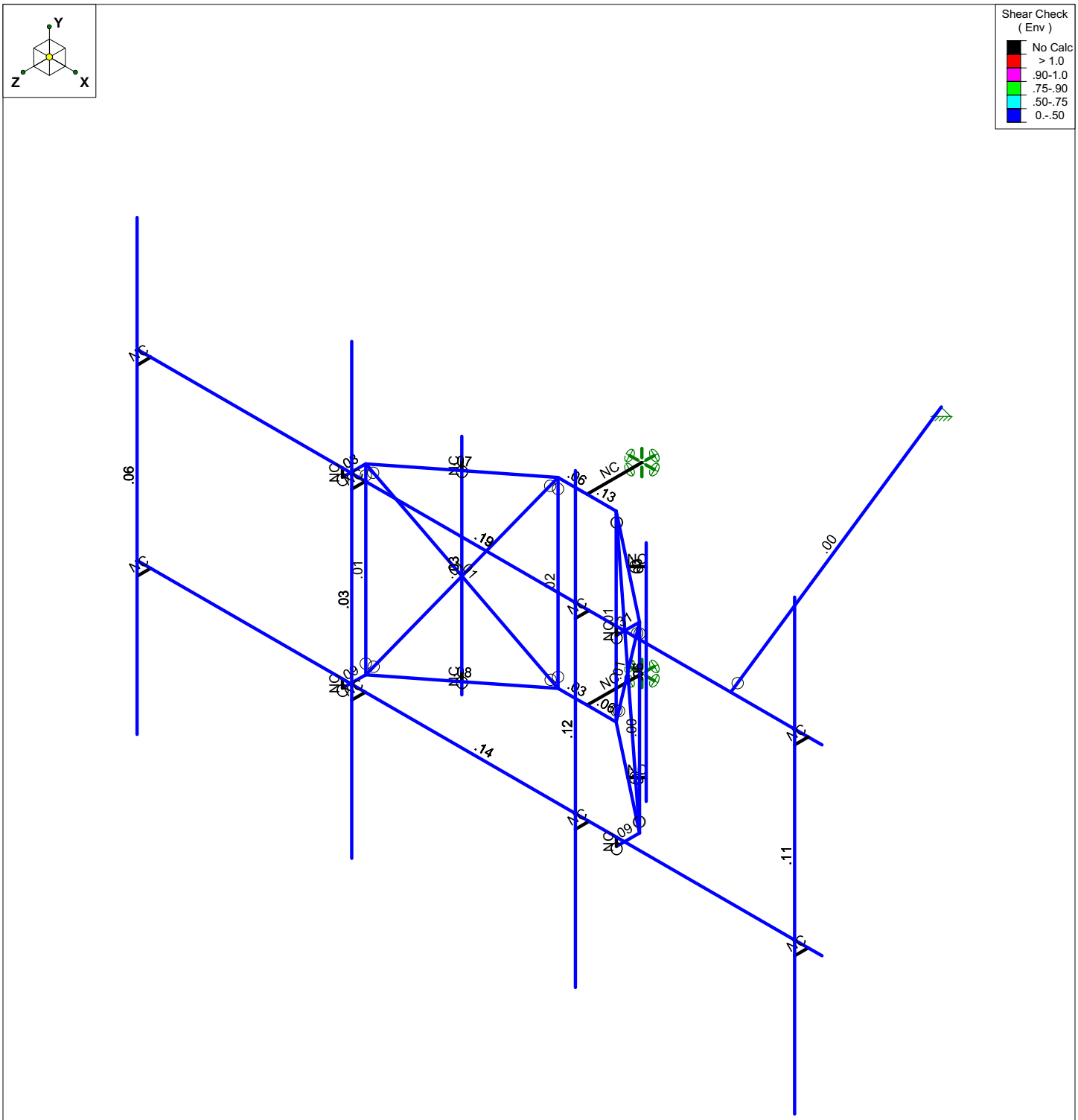
		May 3, 2021 at 4:38 PM
		467801-VZW_MT_LOT_A_H.r3d



Member Shear Checks Displayed (Enveloped)
Loads: BLC 81,
Envelope Only Solution

		SK - 2
		May 3, 2021 at 4:39 PM
		467801-VZW_MT_LOT_A_H.r3d

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
1	Antenna D	None					36			
2	Antenna Di	None					36			
3	Antenna Wo (0 Deg)	None					36			
4	Antenna Wo (30 Deg)	None					36			
5	Antenna Wo (60 Deg)	None					36			
6	Antenna Wo (90 Deg)	None					36			
7	Antenna Wo (120 Deg)	None					36			
8	Antenna Wo (150 Deg)	None					36			
9	Antenna Wo (180 Deg)	None					36			
10	Antenna Wo (210 Deg)	None					36			
11	Antenna Wo (240 Deg)	None					36			
12	Antenna Wo (270 Deg)	None					36			
13	Antenna Wo (300 Deg)	None					36			
14	Antenna Wo (330 Deg)	None					36			
15	Antenna Wi (0 Deg)	None					36			
16	Antenna Wi (30 Deg)	None					36			
17	Antenna Wi (60 Deg)	None					36			
18	Antenna Wi (90 Deg)	None					36			
19	Antenna Wi (120 Deg)	None					36			
20	Antenna Wi (150 Deg)	None					36			
21	Antenna Wi (180 Deg)	None					36			
22	Antenna Wi (210 Deg)	None					36			
23	Antenna Wi (240 Deg)	None					36			
24	Antenna Wi (270 Deg)	None					36			
25	Antenna Wi (300 Deg)	None					36			
26	Antenna Wi (330 Deg)	None					36			
27	Antenna Wm (0 Deg)	None					36			
28	Antenna Wm (30 Deg)	None					36			
29	Antenna Wm (60 Deg)	None					36			
30	Antenna Wm (90 Deg)	None					36			
31	Antenna Wm (120 Deg)	None					36			
32	Antenna Wm (150 Deg)	None					36			
33	Antenna Wm (180 Deg)	None					36			
34	Antenna Wm (210 Deg)	None					36			
35	Antenna Wm (240 Deg)	None					36			
36	Antenna Wm (270 Deg)	None					36			
37	Antenna Wm (300 Deg)	None					36			
38	Antenna Wm (330 Deg)	None					36			
39	Structure D	None		-1						
40	Structure Di	None						29		
41	Structure Wo (0 Deg)	None						58		
42	Structure Wo (30 Deg)	None						58		
43	Structure Wo (60 Deg)	None						58		
44	Structure Wo (90 Deg)	None						58		
45	Structure Wo (120 D...	None						58		
46	Structure Wo (150 D...	None						58		
47	Structure Wo (180 D...	None						58		
48	Structure Wo (210 D...	None						58		
49	Structure Wo (240 D...	None						58		
50	Structure Wo (270 D...	None						58		
51	Structure Wo (300 D...	None						58		
52	Structure Wo (330 D...	None						58		
53	Structure Wi (0 Deg)	None						58		
54	Structure Wi (30 Deg)	None						58		
55	Structure Wi (60 Deg)	None						58		
56	Structure Wi (90 Deg)	None						58		

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

Load Combinations

	Description	So...	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 (120...	Yes	Y		1	1.2	39	1.2	7	1	45	1												
6	1.2D+1.0Wo (150...	Yes	Y		1	1.2	39	1.2	8	1	46	1												
7	1.2D+1.0Wo (180...	Yes	Y		1	1.2	39	1.2	9	1	47	1												
8	1.2D+1.0Wo (210...	Yes	Y		1	1.2	39	1.2	10	1	48	1												
9	1.2D+1.0Wo (240...	Yes	Y		1	1.2	39	1.2	11	1	49	1												
10	1.2D+1.0Wo (270...	Yes	Y		1	1.2	39	1.2	12	1	50	1												
11	1.2D+1.0Wo (300...	Yes	Y		1	1.2	39	1.2	13	1	51	1												
12	1.2D+1.0Wo (330...	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										
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										

Load Combinations (Continued)

	Description	So...	P...	S...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...
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	N1	3.416667	0.145833	8.083333	0	
2	N2	-9.083333	0.145833	8.083333	0	
3	N3	3.416667	3.479167	8.083333	0	
4	N4	-9.083333	3.479167	8.083333	0	
5	N21	-5.333333	0	8.083333	0	
6	N22	-5.333333	3.333333	8.083333	0	
7	N23	-0.333333	0	8.083333	0	
8	N24	-0.333333	3.333333	8.083333	0	
9	N25	-5.333333	0	7.661458	0	
10	N26	-5.333333	3.333333	7.661458	0	
11	N27	-0.333333	0	7.661458	0	
12	N28	-0.333333	3.333333	7.661458	0	
13	N29	-2.833333	0	6.119792	0	
14	N30	-2.833333	3.333333	6.119792	0	
15	N31	-3.364583	0	6.119792	0	
16	N32	-3.364583	3.333333	6.119792	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
17	N33	-2.302083	0	6.119792	0	
18	N34	-2.302083	3.333333	6.119792	0	
19	N35	-2.833333	0	5.119792	0	
20	N36	-2.833333	3.333333	5.119792	0	
21	N58	-5.333333	3.333333	7.708333	0	
22	N76	-2.927083	0	6.119792	0	
23	N77	-3.229167	0	6.119792	0	
24	N78	-2.739583	0	6.119792	0	
25	N79	-2.4375	0	6.119792	0	
26	N80	-2.927083	3.333333	6.119792	0	
27	N81	-3.229167	3.333333	6.119792	0	
28	N82	-2.739583	3.333333	6.119792	0	
29	N83	-2.4375	3.333333	6.119792	0	
30	N58A	-2.833333	3.479167	8.083333	0	
31	N59	-5.333333	0.145833	8.083333	0	
32	N60	-5.333333	3.479167	8.083333	0	
33	N61	-0.333333	0.145833	8.083333	0	
34	N62	-0.333333	3.479167	8.083333	0	
35	N35A	3.166667	0.145833	8.083333	0	
36	N36A	3.166667	3.479167	8.083333	0	
37	N37	3.166667	0.145833	8.333333	0	
38	N38	3.166667	3.479167	8.333333	0	
39	N39	3.166667	5.8125	8.333333	0	
40	N40	3.166667	-2.354167	8.333333	0	
41	N41	-0.833333	0.145833	8.083333	0	
42	N42	-0.833333	3.479167	8.083333	0	
43	N43	-0.833333	0.145833	8.333333	0	
44	N44	-0.833333	3.479167	8.333333	0	
45	N45	-0.833333	5.8125	8.333333	0	
46	N46	-0.833333	-2.354167	8.333333	0	
47	N47	-4.916667	0.145833	8.083333	0	
48	N48	-4.916667	3.479167	8.083333	0	
49	N49	-4.916667	0.145833	8.333333	0	
50	N50	-4.916667	3.479167	8.333333	0	
51	N51	-4.916667	5.8125	8.333333	0	
52	N52	-4.916667	-2.354167	8.333333	0	
53	N53	-8.833333	0.145833	8.083333	0	
54	N54	-8.833333	3.479167	8.083333	0	
55	N55	-8.833333	0.145833	8.333333	0	
56	N56	-8.833333	3.479167	8.333333	0	
57	N57	-8.833333	5.8125	8.333333	0	
58	N58B	-8.833333	-2.354167	8.333333	0	
59	N59A	-4.348958	3.333333	6.890625	0	
60	N60A	-4.348958	0	6.890625	0	
61	N61A	-4.515625	3.333333	6.723958	0	
62	N62A	-4.515625	0	6.723958	0	
63	N63	-4.515625	3.708333	6.723958	0	
64	N64	-4.515625	-.375	6.723958	0	
65	N66	-1.317708	3.333333	6.890625	0	
66	N67	-1.317708	0	6.890625	0	
67	N68	-1.151042	3.333333	6.723958	0	
68	N69	-1.151042	0	6.723958	0	
69	N70	-1.151042	3.708333	6.723958	0	
70	N71	-1.151042	-.375	6.723958	0	
71	N71A	-0.833333	3.479167	1.65569	0	
72	N72	1.75	3.479167	8.083333	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rul...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Antenna Pipe	PIPE_2.0	Column	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Horizontal mount pipe	PIPE_2.5	Beam	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
3	Standoff Horizontal	PIPE_2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
4	Standoff Diagonal	SR_0.75	Column	BAR	A36 Gr.36	Typical	.442	.016	.016	.031
5	Tieback	PIPE_2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
6	Standoff Vertical	SR_0.625	Column	BAR	A36 Gr.36	Typical	.307	.007	.007	.015
7	Standoff Plate	PL5/8X4	Beam	BAR	A36 Gr.36	Typical	2.5	.081	3.333	.293

Hot Rolled Steel Properties

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N2	N1			Horizontal mou...	Beam	Pipe	A53 Gr. B	Typical
2	M2	N4	N3			Horizontal mou...	Beam	Pipe	A53 Gr. B	Typical
3	M13	N22	N26		90	Standoff Plate	Beam	BAR	A36 Gr.36	Typical
4	M14	N21	N25		90	Standoff Plate	Beam	BAR	A36 Gr.36	Typical
5	M15	N23	N27		90	Standoff Plate	Beam	BAR	A36 Gr.36	Typical
6	M16	N24	N28		90	Standoff Plate	Beam	BAR	A36 Gr.36	Typical
7	M17	N26	N32			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
8	M18	N25	N31			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
9	M19	N27	N33			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
10	M20	N28	N34			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
11	M21	N32	N30		90	Standoff Plate	Beam	BAR	A36 Gr.36	Typical
12	M22	N34	N30		90	Standoff Plate	Beam	BAR	A36 Gr.36	Typical
13	M23	N31	N29		90	Standoff Plate	Beam	BAR	A36 Gr.36	Typical
14	M24	N33	N29		90	Standoff Plate	Beam	BAR	A36 Gr.36	Typical
15	M25	N31	N26			Standoff Diago...	Column	BAR	A36 Gr.36	Typical
16	M26	N32	N25			Standoff Diago...	Column	BAR	A36 Gr.36	Typical
17	M27	N33	N28			Standoff Diago...	Column	BAR	A36 Gr.36	Typical
18	M28	N27	N34			Standoff Diago...	Column	BAR	A36 Gr.36	Typical
19	M29	N29	N35			RIGID	None	None	RIGID	Typical
20	M30	N30	N36			RIGID	None	None	RIGID	Typical
21	M44	N25	N26			Standoff Vertical	Column	BAR	A36 Gr.36	Typical
22	M45	N31	N32			Standoff Vertical	Column	BAR	A36 Gr.36	Typical
23	M46	N33	N34			Standoff Vertical	Column	BAR	A36 Gr.36	Typical
24	M47	N27	N28			Standoff Vertical	Column	BAR	A36 Gr.36	Typical
25	M47B	N22	N60			RIGID	None	None	RIGID	Typical
26	M48A	N21	N59			RIGID	None	None	RIGID	Typical
27	M49A	N24	N62			RIGID	None	None	RIGID	Typical
28	M50A	N23	N61			RIGID	None	None	RIGID	Typical
29	M51A	N30	N36			RIGID	None	None	RIGID	Typical
30	M52A	N29	N35			RIGID	None	None	RIGID	Typical
31	M31	N36A	N38			RIGID	None	None	RIGID	Typical
32	M32	N35A	N37			RIGID	None	None	RIGID	Typical
33	MP1A	N39	N40			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
34	M34	N42	N44			RIGID	None	None	RIGID	Typical
35	M35	N41	N43			RIGID	None	None	RIGID	Typical
36	MP2A	N45	N46			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
37	M37	N48	N50			RIGID	None	None	RIGID	Typical
38	M38	N47	N49			RIGID	None	None	RIGID	Typical
39	MP3A	N51	N52			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
40	M40	N54	N56			RIGID	None	None	RIGID	Typical
41	M41	N53	N55			RIGID	None	None	RIGID	Typical
42	MP4A	N57	N58B			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
43	M43	N59A	N61A			RIGID	None	None	RIGID	Typical
44	M44A	N60A	N62A			RIGID	None	None	RIGID	Typical
45	M45A	N63	N64			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
46	M46A	N66	N68			RIGID	None	None	RIGID	Typical
47	M47A	N67	N69			RIGID	None	None	RIGID	Typical
48	M48	N70	N71			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
49	M49	N71A	N72			Tieback	Beam	Pipe	A53 Gr. B	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes				None
2	M2						Yes				None
3	M13						Yes	Default			None
4	M14						Yes	Default			None
5	M15						Yes				None
6	M16						Yes				None
7	M17						Yes	Default			None
8	M18						Yes				None
9	M19						Yes				None
10	M20						Yes	Default			None
11	M21						Yes	Default			None
12	M22						Yes				None
13	M23						Yes				None
14	M24						Yes				None
15	M25	BenPIN	BenPIN			Euler Buc..	Yes	** NA **			None
16	M26	BenPIN	BenPIN			Euler Buc..	Yes	** NA **			None
17	M27	BenPIN	BenPIN			Euler Buc..	Yes	** NA **			None
18	M28	BenPIN	BenPIN			Euler Buc..	Yes	** NA **			None
19	M29						Yes	** NA **		Inactive	None
20	M30						Yes	** NA **		Inactive	None
21	M44	BenPIN	BenPIN				Yes	** NA **			None
22	M45	BenPIN	BenPIN				Yes	** NA **			None
23	M46	BenPIN	BenPIN				Yes	** NA **			None
24	M47	BenPIN	BenPIN				Yes	** NA **			None
25	M47B		OOOXOO				Yes	** NA **			None
26	M48A		OOOXOO				Yes	** NA **			None
27	M49A		OOOXOO				Yes	** NA **			None
28	M50A		OOOXOO				Yes	** NA **			None
29	M51A						Yes	** NA **			None
30	M52A						Yes	** NA **			None
31	M31						Yes	** NA **			None
32	M32						Yes	** NA **			None
33	MP1A						Yes	** NA **			None
34	M34						Yes	** NA **			None
35	M35						Yes	** NA **			None
36	MP2A						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...
37	M37						Yes	** NA **			None
38	M38						Yes	** NA **			None
39	MP3A						Yes	** NA **			None
40	M40						Yes	** NA **			None
41	M41						Yes	** NA **			None
42	MP4A						Yes	** NA **			None
43	M43		OOOXOO				Yes	** NA **			None
44	M44A		OOOXOO				Yes	** NA **			None
45	M45A						Yes	** NA **			None
46	M46A		OOOXOO				Yes	** NA **			None
47	M47A		OOOXOO				Yes	** NA **			None
48	M48						Yes	** NA **			None
49	M49		BenPIN				Yes	Default			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	Y	-43.55	3
2	MP3A	My	-.022	3
3	MP3A	Mz	0	3
4	MP3A	Y	-43.55	5
5	MP3A	My	-.022	5
6	MP3A	Mz	0	5
7	MP1A	Y	-10.5	1.5
8	MP1A	My	-.005	1.5
9	MP1A	Mz	0	1.5
10	MP1A	Y	-10.5	6.5
11	MP1A	My	-.005	6.5
12	MP1A	Mz	0	6.5
13	MP4A	Y	-10.5	1.5
14	MP4A	My	-.005	1.5
15	MP4A	Mz	0	1.5
16	MP4A	Y	-10.5	6.5
17	MP4A	My	-.005	6.5
18	MP4A	Mz	0	6.5
19	MP2A	Y	-21.85	2
20	MP2A	My	-.011	2
21	MP2A	Mz	.013	2
22	MP2A	Y	-21.85	6
23	MP2A	My	-.011	6
24	MP2A	Mz	.013	6
25	MP2A	Y	-21.85	2
26	MP2A	My	-.011	2
27	MP2A	Mz	-.013	2
28	MP2A	Y	-21.85	6
29	MP2A	My	-.011	6
30	MP2A	Mz	-.013	6
31	M45A	Y	-84.4	2
32	M45A	My	0	2
33	M45A	Mz	0	2
34	M48	Y	-70.3	2
35	M48	My	0	2
36	M48	Mz	0	2

Member Point Loads (BLC 2 : Antenna Di)

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	Y	-57.8	3
2	MP3A	My	-.029	3
3	MP3A	Mz	0	3
4	MP3A	Y	-57.8	5
5	MP3A	My	-.029	5
6	MP3A	Mz	0	5
7	MP1A	Y	-94.578	1.5
8	MP1A	My	-.047	1.5
9	MP1A	Mz	0	1.5
10	MP1A	Y	-94.578	6.5
11	MP1A	My	-.047	6.5
12	MP1A	Mz	0	6.5
13	MP4A	Y	-94.578	1.5
14	MP4A	My	-.047	1.5
15	MP4A	Mz	0	1.5
16	MP4A	Y	-94.578	6.5
17	MP4A	My	-.047	6.5
18	MP4A	Mz	0	6.5
19	MP2A	Y	-97.892	2
20	MP2A	My	-.049	2
21	MP2A	Mz	.057	2
22	MP2A	Y	-97.892	6
23	MP2A	My	-.049	6
24	MP2A	Mz	.057	6
25	MP2A	Y	-97.892	2
26	MP2A	My	-.049	2
27	MP2A	Mz	-.057	2
28	MP2A	Y	-97.892	6
29	MP2A	My	-.049	6
30	MP2A	Mz	-.057	6
31	M45A	Y	-73.497	2
32	M45A	My	0	2
33	M45A	Mz	0	2
34	M48	Y	-66.373	2
35	M48	My	0	2
36	M48	Mz	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	3
2	MP3A	Z	-75.01	3
3	MP3A	Mx	0	3
4	MP3A	X	0	5
5	MP3A	Z	-75.01	5
6	MP3A	Mx	0	5
7	MP1A	X	0	1.5
8	MP1A	Z	-69.105	1.5
9	MP1A	Mx	0	1.5
10	MP1A	X	0	6.5
11	MP1A	Z	-69.105	6.5
12	MP1A	Mx	0	6.5
13	MP4A	X	0	1.5
14	MP4A	Z	-69.105	1.5
15	MP4A	Mx	0	1.5
16	MP4A	X	0	6.5
17	MP4A	Z	-69.105	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP4A	Mx	0	6.5
19	MP2A	X	0	2
20	MP2A	Z	-128.953	2
21	MP2A	Mx	-.075	2
22	MP2A	X	0	6
23	MP2A	Z	-128.953	6
24	MP2A	Mx	-.075	6
25	MP2A	X	0	2
26	MP2A	Z	-128.953	2
27	MP2A	Mx	.075	2
28	MP2A	X	0	6
29	MP2A	Z	-128.953	6
30	MP2A	Mx	.075	6
31	M45A	X	0	2
32	M45A	Z	-39.899	2
33	M45A	Mx	0	2
34	M48	X	0	2
35	M48	Z	-32.318	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	31.799	3
2	MP3A	Z	-55.078	3
3	MP3A	Mx	-.016	3
4	MP3A	X	31.799	5
5	MP3A	Z	-55.078	5
6	MP3A	Mx	-.016	5
7	MP1A	X	43.127	1.5
8	MP1A	Z	-74.699	1.5
9	MP1A	Mx	-.022	1.5
10	MP1A	X	43.127	6.5
11	MP1A	Z	-74.699	6.5
12	MP1A	Mx	-.022	6.5
13	MP4A	X	43.127	1.5
14	MP4A	Z	-74.699	1.5
15	MP4A	Mx	-.022	1.5
16	MP4A	X	43.127	6.5
17	MP4A	Z	-74.699	6.5
18	MP4A	Mx	-.022	6.5
19	MP2A	X	59.014	2
20	MP2A	Z	-102.214	2
21	MP2A	Mx	-.089	2
22	MP2A	X	59.014	6
23	MP2A	Z	-102.214	6
24	MP2A	Mx	-.089	6
25	MP2A	X	59.014	2
26	MP2A	Z	-102.214	2
27	MP2A	Mx	.03	2
28	MP2A	X	59.014	6
29	MP2A	Z	-102.214	6
30	MP2A	Mx	.03	6
31	M45A	X	22.423	2
32	M45A	Z	-38.838	2
33	M45A	Mx	0	2
34	M48	X	19.58	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	M48	Z	-33.914	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	35.314	3
2	MP3A	Z	-20.388	3
3	MP3A	Mx	-.018	3
4	MP3A	X	35.314	5
5	MP3A	Z	-20.388	5
6	MP3A	Mx	-.018	5
7	MP1A	X	104.403	1.5
8	MP1A	Z	-60.277	1.5
9	MP1A	Mx	-.052	1.5
10	MP1A	X	104.403	6.5
11	MP1A	Z	-60.277	6.5
12	MP1A	Mx	-.052	6.5
13	MP4A	X	104.403	1.5
14	MP4A	Z	-60.277	1.5
15	MP4A	Mx	-.052	1.5
16	MP4A	X	104.403	6.5
17	MP4A	Z	-60.277	6.5
18	MP4A	Mx	-.052	6.5
19	MP2A	X	83.291	2
20	MP2A	Z	-48.088	2
21	MP2A	Mx	-.07	2
22	MP2A	X	83.291	6
23	MP2A	Z	-48.088	6
24	MP2A	Mx	-.07	6
25	MP2A	X	83.291	2
26	MP2A	Z	-48.088	2
27	MP2A	Mx	-.014	2
28	MP2A	X	83.291	6
29	MP2A	Z	-48.088	6
30	MP2A	Mx	-.014	6
31	M45A	X	47.407	2
32	M45A	Z	-27.371	2
33	M45A	Mx	0	2
34	M48	X	45.766	2
35	M48	Z	-26.423	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	29.366	3
2	MP3A	Z	0	3
3	MP3A	Mx	-.015	3
4	MP3A	X	29.366	5
5	MP3A	Z	0	5
6	MP3A	Mx	-.015	5
7	MP1A	X	137.704	1.5
8	MP1A	Z	0	1.5
9	MP1A	Mx	-.069	1.5
10	MP1A	X	137.704	6.5
11	MP1A	Z	0	6.5
12	MP1A	Mx	-.069	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP4A	X	137.704	1.5
14	MP4A	Z	0	1.5
15	MP4A	Mx	-.069	1.5
16	MP4A	X	137.704	6.5
17	MP4A	Z	0	6.5
18	MP4A	Mx	-.069	6.5
19	MP2A	X	85.25	2
20	MP2A	Z	0	2
21	MP2A	Mx	-.043	2
22	MP2A	X	85.25	6
23	MP2A	Z	0	6
24	MP2A	Mx	-.043	6
25	MP2A	X	85.25	2
26	MP2A	Z	0	2
27	MP2A	Mx	-.043	2
28	MP2A	X	85.25	6
29	MP2A	Z	0	6
30	MP2A	Mx	-.043	6
31	M45A	X	59.688	2
32	M45A	Z	0	2
33	M45A	Mx	0	2
34	M48	X	59.688	2
35	M48	Z	0	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	35.314	3
2	MP3A	Z	20.388	3
3	MP3A	Mx	-.018	3
4	MP3A	X	35.314	5
5	MP3A	Z	20.388	5
6	MP3A	Mx	-.018	5
7	MP1A	X	104.403	1.5
8	MP1A	Z	60.277	1.5
9	MP1A	Mx	-.052	1.5
10	MP1A	X	104.403	6.5
11	MP1A	Z	60.277	6.5
12	MP1A	Mx	-.052	6.5
13	MP4A	X	104.403	1.5
14	MP4A	Z	60.277	1.5
15	MP4A	Mx	-.052	1.5
16	MP4A	X	104.403	6.5
17	MP4A	Z	60.277	6.5
18	MP4A	Mx	-.052	6.5
19	MP2A	X	83.291	2
20	MP2A	Z	48.088	2
21	MP2A	Mx	-.014	2
22	MP2A	X	83.291	6
23	MP2A	Z	48.088	6
24	MP2A	Mx	-.014	6
25	MP2A	X	83.291	2
26	MP2A	Z	48.088	2
27	MP2A	Mx	-.07	2
28	MP2A	X	83.291	6
29	MP2A	Z	48.088	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP2A	Mx	-.07	6
31	M45A	X	47.407	2
32	M45A	Z	27.371	2
33	M45A	Mx	0	2
34	M48	X	45.766	2
35	M48	Z	26.423	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	31.799	3
2	MP3A	Z	55.078	3
3	MP3A	Mx	-.016	3
4	MP3A	X	31.799	5
5	MP3A	Z	55.078	5
6	MP3A	Mx	-.016	5
7	MP1A	X	43.127	1.5
8	MP1A	Z	74.699	1.5
9	MP1A	Mx	-.022	1.5
10	MP1A	X	43.127	6.5
11	MP1A	Z	74.699	6.5
12	MP1A	Mx	-.022	6.5
13	MP4A	X	43.127	1.5
14	MP4A	Z	74.699	1.5
15	MP4A	Mx	-.022	1.5
16	MP4A	X	43.127	6.5
17	MP4A	Z	74.699	6.5
18	MP4A	Mx	-.022	6.5
19	MP2A	X	59.014	2
20	MP2A	Z	102.214	2
21	MP2A	Mx	.03	2
22	MP2A	X	59.014	6
23	MP2A	Z	102.214	6
24	MP2A	Mx	.03	6
25	MP2A	X	59.014	2
26	MP2A	Z	102.214	2
27	MP2A	Mx	-.089	2
28	MP2A	X	59.014	6
29	MP2A	Z	102.214	6
30	MP2A	Mx	-.089	6
31	M45A	X	22.423	2
32	M45A	Z	38.838	2
33	M45A	Mx	0	2
34	M48	X	19.58	2
35	M48	Z	33.914	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	3
2	MP3A	Z	75.01	3
3	MP3A	Mx	0	3
4	MP3A	X	0	5
5	MP3A	Z	75.01	5
6	MP3A	Mx	0	5
7	MP1A	X	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP1A	Z	69.105	1.5
9	MP1A	Mx	0	1.5
10	MP1A	X	0	6.5
11	MP1A	Z	69.105	6.5
12	MP1A	Mx	0	6.5
13	MP4A	X	0	1.5
14	MP4A	Z	69.105	1.5
15	MP4A	Mx	0	1.5
16	MP4A	X	0	6.5
17	MP4A	Z	69.105	6.5
18	MP4A	Mx	0	6.5
19	MP2A	X	0	2
20	MP2A	Z	128.953	2
21	MP2A	Mx	.075	2
22	MP2A	X	0	6
23	MP2A	Z	128.953	6
24	MP2A	Mx	.075	6
25	MP2A	X	0	2
26	MP2A	Z	128.953	2
27	MP2A	Mx	-.075	2
28	MP2A	X	0	6
29	MP2A	Z	128.953	6
30	MP2A	Mx	-.075	6
31	M45A	X	0	2
32	M45A	Z	39.899	2
33	M45A	Mx	0	2
34	M48	X	0	2
35	M48	Z	32.318	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-31.799	3
2	MP3A	Z	55.078	3
3	MP3A	Mx	.016	3
4	MP3A	X	-31.799	5
5	MP3A	Z	55.078	5
6	MP3A	Mx	.016	5
7	MP1A	X	-43.127	1.5
8	MP1A	Z	74.699	1.5
9	MP1A	Mx	.022	1.5
10	MP1A	X	-43.127	6.5
11	MP1A	Z	74.699	6.5
12	MP1A	Mx	.022	6.5
13	MP4A	X	-43.127	1.5
14	MP4A	Z	74.699	1.5
15	MP4A	Mx	.022	1.5
16	MP4A	X	-43.127	6.5
17	MP4A	Z	74.699	6.5
18	MP4A	Mx	.022	6.5
19	MP2A	X	-59.014	2
20	MP2A	Z	102.214	2
21	MP2A	Mx	.089	2
22	MP2A	X	-59.014	6
23	MP2A	Z	102.214	6
24	MP2A	Mx	.089	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP2A	X	-59.014	2
26	MP2A	Z	102.214	2
27	MP2A	Mx	-.03	2
28	MP2A	X	-59.014	6
29	MP2A	Z	102.214	6
30	MP2A	Mx	-.03	6
31	M45A	X	-22.423	2
32	M45A	Z	38.838	2
33	M45A	Mx	0	2
34	M48	X	-19.58	2
35	M48	Z	33.914	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-35.314	3
2	MP3A	Z	20.388	3
3	MP3A	Mx	.018	3
4	MP3A	X	-35.314	5
5	MP3A	Z	20.388	5
6	MP3A	Mx	.018	5
7	MP1A	X	-104.403	1.5
8	MP1A	Z	60.277	1.5
9	MP1A	Mx	.052	1.5
10	MP1A	X	-104.403	6.5
11	MP1A	Z	60.277	6.5
12	MP1A	Mx	.052	6.5
13	MP4A	X	-104.403	1.5
14	MP4A	Z	60.277	1.5
15	MP4A	Mx	.052	1.5
16	MP4A	X	-104.403	6.5
17	MP4A	Z	60.277	6.5
18	MP4A	Mx	.052	6.5
19	MP2A	X	-83.291	2
20	MP2A	Z	48.088	2
21	MP2A	Mx	.07	2
22	MP2A	X	-83.291	6
23	MP2A	Z	48.088	6
24	MP2A	Mx	.07	6
25	MP2A	X	-83.291	2
26	MP2A	Z	48.088	2
27	MP2A	Mx	.014	2
28	MP2A	X	-83.291	6
29	MP2A	Z	48.088	6
30	MP2A	Mx	.014	6
31	M45A	X	-47.407	2
32	M45A	Z	27.371	2
33	M45A	Mx	0	2
34	M48	X	-45.766	2
35	M48	Z	26.423	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-29.366	3
2	MP3A	Z	0	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
3	MP3A	Mx	.015	3
4	MP3A	X	-29.366	5
5	MP3A	Z	0	5
6	MP3A	Mx	.015	5
7	MP1A	X	-137.704	1.5
8	MP1A	Z	0	1.5
9	MP1A	Mx	.069	1.5
10	MP1A	X	-137.704	6.5
11	MP1A	Z	0	6.5
12	MP1A	Mx	.069	6.5
13	MP4A	X	-137.704	1.5
14	MP4A	Z	0	1.5
15	MP4A	Mx	.069	1.5
16	MP4A	X	-137.704	6.5
17	MP4A	Z	0	6.5
18	MP4A	Mx	.069	6.5
19	MP2A	X	-85.25	2
20	MP2A	Z	0	2
21	MP2A	Mx	.043	2
22	MP2A	X	-85.25	6
23	MP2A	Z	0	6
24	MP2A	Mx	.043	6
25	MP2A	X	-85.25	2
26	MP2A	Z	0	2
27	MP2A	Mx	.043	2
28	MP2A	X	-85.25	6
29	MP2A	Z	0	6
30	MP2A	Mx	.043	6
31	M45A	X	-59.688	2
32	M45A	Z	0	2
33	M45A	Mx	0	2
34	M48	X	-59.688	2
35	M48	Z	0	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-35.314	3
2	MP3A	Z	-20.388	3
3	MP3A	Mx	.018	3
4	MP3A	X	-35.314	5
5	MP3A	Z	-20.388	5
6	MP3A	Mx	.018	5
7	MP1A	X	-104.403	1.5
8	MP1A	Z	-60.277	1.5
9	MP1A	Mx	.052	1.5
10	MP1A	X	-104.403	6.5
11	MP1A	Z	-60.277	6.5
12	MP1A	Mx	.052	6.5
13	MP4A	X	-104.403	1.5
14	MP4A	Z	-60.277	1.5
15	MP4A	Mx	.052	1.5
16	MP4A	X	-104.403	6.5
17	MP4A	Z	-60.277	6.5
18	MP4A	Mx	.052	6.5
19	MP2A	X	-83.291	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
20	MP2A	Z	-48.088	2
21	MP2A	Mx	.014	2
22	MP2A	X	-83.291	6
23	MP2A	Z	-48.088	6
24	MP2A	Mx	.014	6
25	MP2A	X	-83.291	2
26	MP2A	Z	-48.088	2
27	MP2A	Mx	.07	2
28	MP2A	X	-83.291	6
29	MP2A	Z	-48.088	6
30	MP2A	Mx	.07	6
31	M45A	X	-47.407	2
32	M45A	Z	-27.371	2
33	M45A	Mx	0	2
34	M48	X	-45.766	2
35	M48	Z	-26.423	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-31.799	3
2	MP3A	Z	-55.078	3
3	MP3A	Mx	.016	3
4	MP3A	X	-31.799	5
5	MP3A	Z	-55.078	5
6	MP3A	Mx	.016	5
7	MP1A	X	-43.127	1.5
8	MP1A	Z	-74.699	1.5
9	MP1A	Mx	.022	1.5
10	MP1A	X	-43.127	6.5
11	MP1A	Z	-74.699	6.5
12	MP1A	Mx	.022	6.5
13	MP4A	X	-43.127	1.5
14	MP4A	Z	-74.699	1.5
15	MP4A	Mx	.022	1.5
16	MP4A	X	-43.127	6.5
17	MP4A	Z	-74.699	6.5
18	MP4A	Mx	.022	6.5
19	MP2A	X	-59.014	2
20	MP2A	Z	-102.214	2
21	MP2A	Mx	-.03	2
22	MP2A	X	-59.014	6
23	MP2A	Z	-102.214	6
24	MP2A	Mx	-.03	6
25	MP2A	X	-59.014	2
26	MP2A	Z	-102.214	2
27	MP2A	Mx	.089	2
28	MP2A	X	-59.014	6
29	MP2A	Z	-102.214	6
30	MP2A	Mx	.089	6
31	M45A	X	-22.423	2
32	M45A	Z	-38.838	2
33	M45A	Mx	0	2
34	M48	X	-19.58	2
35	M48	Z	-33.914	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	3
2	MP3A	Z	-17.041	3
3	MP3A	Mx	0	3
4	MP3A	X	0	5
5	MP3A	Z	-17.041	5
6	MP3A	Mx	0	5
7	MP1A	X	0	1.5
8	MP1A	Z	-16.669	1.5
9	MP1A	Mx	0	1.5
10	MP1A	X	0	6.5
11	MP1A	Z	-16.669	6.5
12	MP1A	Mx	0	6.5
13	MP4A	X	0	1.5
14	MP4A	Z	-16.669	1.5
15	MP4A	Mx	0	1.5
16	MP4A	X	0	6.5
17	MP4A	Z	-16.669	6.5
18	MP4A	Mx	0	6.5
19	MP2A	X	0	2
20	MP2A	Z	-28.322	2
21	MP2A	Mx	-.017	2
22	MP2A	X	0	6
23	MP2A	Z	-28.322	6
24	MP2A	Mx	-.017	6
25	MP2A	X	0	2
26	MP2A	Z	-28.322	2
27	MP2A	Mx	.017	2
28	MP2A	X	0	6
29	MP2A	Z	-28.322	6
30	MP2A	Mx	.017	6
31	M45A	X	0	2
32	M45A	Z	-10.496	2
33	M45A	Mx	0	2
34	M48	X	0	2
35	M48	Z	-8.867	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	7.339	3
2	MP3A	Z	-12.711	3
3	MP3A	Mx	-.004	3
4	MP3A	X	7.339	5
5	MP3A	Z	-12.711	5
6	MP3A	Mx	-.004	5
7	MP1A	X	10.006	1.5
8	MP1A	Z	-17.331	1.5
9	MP1A	Mx	-.005	1.5
10	MP1A	X	10.006	6.5
11	MP1A	Z	-17.331	6.5
12	MP1A	Mx	-.005	6.5
13	MP4A	X	10.006	1.5
14	MP4A	Z	-17.331	1.5
15	MP4A	Mx	-.005	1.5
16	MP4A	X	10.006	6.5
17	MP4A	Z	-17.331	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP4A	Mx	-.005	6.5
19	MP2A	X	13.113	2
20	MP2A	Z	-22.712	2
21	MP2A	Mx	-.02	2
22	MP2A	X	13.113	6
23	MP2A	Z	-22.712	6
24	MP2A	Mx	-.02	6
25	MP2A	X	13.113	2
26	MP2A	Z	-22.712	2
27	MP2A	Mx	.007	2
28	MP2A	X	13.113	6
29	MP2A	Z	-22.712	6
30	MP2A	Mx	.007	6
31	M45A	X	5.784	2
32	M45A	Z	-10.019	2
33	M45A	Mx	0	2
34	M48	X	5.173	2
35	M48	Z	-8.96	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	8.617	3
2	MP3A	Z	-4.975	3
3	MP3A	Mx	-.004	3
4	MP3A	X	8.617	5
5	MP3A	Z	-4.975	5
6	MP3A	Mx	-.004	5
7	MP1A	X	23.123	1.5
8	MP1A	Z	-13.35	1.5
9	MP1A	Mx	-.012	1.5
10	MP1A	X	23.123	6.5
11	MP1A	Z	-13.35	6.5
12	MP1A	Mx	-.012	6.5
13	MP4A	X	23.123	1.5
14	MP4A	Z	-13.35	1.5
15	MP4A	Mx	-.012	1.5
16	MP4A	X	23.123	6.5
17	MP4A	Z	-13.35	6.5
18	MP4A	Mx	-.012	6.5
19	MP2A	X	19.08	2
20	MP2A	Z	-11.016	2
21	MP2A	Mx	-.016	2
22	MP2A	X	19.08	6
23	MP2A	Z	-11.016	6
24	MP2A	Mx	-.016	6
25	MP2A	X	19.08	2
26	MP2A	Z	-11.016	2
27	MP2A	Mx	-.003	2
28	MP2A	X	19.08	6
29	MP2A	Z	-11.016	6
30	MP2A	Mx	-.003	6
31	M45A	X	11.876	2
32	M45A	Z	-6.857	2
33	M45A	Mx	0	2
34	M48	X	11.523	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	M48	Z	-6.653	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	7.587	3
2	MP3A	Z	0	3
3	MP3A	Mx	-.004	3
4	MP3A	X	7.587	5
5	MP3A	Z	0	5
6	MP3A	Mx	-.004	5
7	MP1A	X	30.045	1.5
8	MP1A	Z	0	1.5
9	MP1A	Mx	-.015	1.5
10	MP1A	X	30.045	6.5
11	MP1A	Z	0	6.5
12	MP1A	Mx	-.015	6.5
13	MP4A	X	30.045	1.5
14	MP4A	Z	0	1.5
15	MP4A	Mx	-.015	1.5
16	MP4A	X	30.045	6.5
17	MP4A	Z	0	6.5
18	MP4A	Mx	-.015	6.5
19	MP2A	X	19.935	2
20	MP2A	Z	0	2
21	MP2A	Mx	-.01	2
22	MP2A	X	19.935	6
23	MP2A	Z	0	6
24	MP2A	Mx	-.01	6
25	MP2A	X	19.935	2
26	MP2A	Z	0	2
27	MP2A	Mx	-.01	2
28	MP2A	X	19.935	6
29	MP2A	Z	0	6
30	MP2A	Mx	-.01	6
31	M45A	X	14.785	2
32	M45A	Z	0	2
33	M45A	Mx	0	2
34	M48	X	14.785	2
35	M48	Z	0	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	8.617	3
2	MP3A	Z	4.975	3
3	MP3A	Mx	-.004	3
4	MP3A	X	8.617	5
5	MP3A	Z	4.975	5
6	MP3A	Mx	-.004	5
7	MP1A	X	23.123	1.5
8	MP1A	Z	13.35	1.5
9	MP1A	Mx	-.012	1.5
10	MP1A	X	23.123	6.5
11	MP1A	Z	13.35	6.5
12	MP1A	Mx	-.012	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP4A	X	23.123	1.5
14	MP4A	Z	13.35	1.5
15	MP4A	Mx	-.012	1.5
16	MP4A	X	23.123	6.5
17	MP4A	Z	13.35	6.5
18	MP4A	Mx	-.012	6.5
19	MP2A	X	19.08	2
20	MP2A	Z	11.016	2
21	MP2A	Mx	-.003	2
22	MP2A	X	19.08	6
23	MP2A	Z	11.016	6
24	MP2A	Mx	-.003	6
25	MP2A	X	19.08	2
26	MP2A	Z	11.016	2
27	MP2A	Mx	-.016	2
28	MP2A	X	19.08	6
29	MP2A	Z	11.016	6
30	MP2A	Mx	-.016	6
31	M45A	X	11.876	2
32	M45A	Z	6.857	2
33	M45A	Mx	0	2
34	M48	X	11.523	2
35	M48	Z	6.653	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	7.339	3
2	MP3A	Z	12.711	3
3	MP3A	Mx	-.004	3
4	MP3A	X	7.339	5
5	MP3A	Z	12.711	5
6	MP3A	Mx	-.004	5
7	MP1A	X	10.006	1.5
8	MP1A	Z	17.331	1.5
9	MP1A	Mx	-.005	1.5
10	MP1A	X	10.006	6.5
11	MP1A	Z	17.331	6.5
12	MP1A	Mx	-.005	6.5
13	MP4A	X	10.006	1.5
14	MP4A	Z	17.331	1.5
15	MP4A	Mx	-.005	1.5
16	MP4A	X	10.006	6.5
17	MP4A	Z	17.331	6.5
18	MP4A	Mx	-.005	6.5
19	MP2A	X	13.113	2
20	MP2A	Z	22.712	2
21	MP2A	Mx	.007	2
22	MP2A	X	13.113	6
23	MP2A	Z	22.712	6
24	MP2A	Mx	.007	6
25	MP2A	X	13.113	2
26	MP2A	Z	22.712	2
27	MP2A	Mx	-.02	2
28	MP2A	X	13.113	6
29	MP2A	Z	22.712	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP2A	Mx	-.02	6
31	M45A	X	5.784	2
32	M45A	Z	10.019	2
33	M45A	Mx	0	2
34	M48	X	5.173	2
35	M48	Z	8.96	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	3
2	MP3A	Z	17.041	3
3	MP3A	Mx	0	3
4	MP3A	X	0	5
5	MP3A	Z	17.041	5
6	MP3A	Mx	0	5
7	MP1A	X	0	1.5
8	MP1A	Z	16.669	1.5
9	MP1A	Mx	0	1.5
10	MP1A	X	0	6.5
11	MP1A	Z	16.669	6.5
12	MP1A	Mx	0	6.5
13	MP4A	X	0	1.5
14	MP4A	Z	16.669	1.5
15	MP4A	Mx	0	1.5
16	MP4A	X	0	6.5
17	MP4A	Z	16.669	6.5
18	MP4A	Mx	0	6.5
19	MP2A	X	0	2
20	MP2A	Z	28.322	2
21	MP2A	Mx	.017	2
22	MP2A	X	0	6
23	MP2A	Z	28.322	6
24	MP2A	Mx	.017	6
25	MP2A	X	0	2
26	MP2A	Z	28.322	2
27	MP2A	Mx	-.017	2
28	MP2A	X	0	6
29	MP2A	Z	28.322	6
30	MP2A	Mx	-.017	6
31	M45A	X	0	2
32	M45A	Z	10.496	2
33	M45A	Mx	0	2
34	M48	X	0	2
35	M48	Z	8.867	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-7.339	3
2	MP3A	Z	12.711	3
3	MP3A	Mx	.004	3
4	MP3A	X	-7.339	5
5	MP3A	Z	12.711	5
6	MP3A	Mx	.004	5
7	MP1A	X	-10.006	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP1A	Z	17.331	1.5
9	MP1A	Mx	.005	1.5
10	MP1A	X	-10.006	6.5
11	MP1A	Z	17.331	6.5
12	MP1A	Mx	.005	6.5
13	MP4A	X	-10.006	1.5
14	MP4A	Z	17.331	1.5
15	MP4A	Mx	.005	1.5
16	MP4A	X	-10.006	6.5
17	MP4A	Z	17.331	6.5
18	MP4A	Mx	.005	6.5
19	MP2A	X	-13.113	2
20	MP2A	Z	22.712	2
21	MP2A	Mx	.02	2
22	MP2A	X	-13.113	6
23	MP2A	Z	22.712	6
24	MP2A	Mx	.02	6
25	MP2A	X	-13.113	2
26	MP2A	Z	22.712	2
27	MP2A	Mx	-.007	2
28	MP2A	X	-13.113	6
29	MP2A	Z	22.712	6
30	MP2A	Mx	-.007	6
31	M45A	X	-5.784	2
32	M45A	Z	10.019	2
33	M45A	Mx	0	2
34	M48	X	-5.173	2
35	M48	Z	8.96	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-8.617	3
2	MP3A	Z	4.975	3
3	MP3A	Mx	.004	3
4	MP3A	X	-8.617	5
5	MP3A	Z	4.975	5
6	MP3A	Mx	.004	5
7	MP1A	X	-23.123	1.5
8	MP1A	Z	13.35	1.5
9	MP1A	Mx	.012	1.5
10	MP1A	X	-23.123	6.5
11	MP1A	Z	13.35	6.5
12	MP1A	Mx	.012	6.5
13	MP4A	X	-23.123	1.5
14	MP4A	Z	13.35	1.5
15	MP4A	Mx	.012	1.5
16	MP4A	X	-23.123	6.5
17	MP4A	Z	13.35	6.5
18	MP4A	Mx	.012	6.5
19	MP2A	X	-19.08	2
20	MP2A	Z	11.016	2
21	MP2A	Mx	.016	2
22	MP2A	X	-19.08	6
23	MP2A	Z	11.016	6
24	MP2A	Mx	.016	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP2A	X	-19.08	2
26	MP2A	Z	11.016	2
27	MP2A	Mx	.003	2
28	MP2A	X	-19.08	6
29	MP2A	Z	11.016	6
30	MP2A	Mx	.003	6
31	M45A	X	-11.876	2
32	M45A	Z	6.857	2
33	M45A	Mx	0	2
34	M48	X	-11.523	2
35	M48	Z	6.653	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-7.587	3
2	MP3A	Z	0	3
3	MP3A	Mx	.004	3
4	MP3A	X	-7.587	5
5	MP3A	Z	0	5
6	MP3A	Mx	.004	5
7	MP1A	X	-30.045	1.5
8	MP1A	Z	0	1.5
9	MP1A	Mx	.015	1.5
10	MP1A	X	-30.045	6.5
11	MP1A	Z	0	6.5
12	MP1A	Mx	.015	6.5
13	MP4A	X	-30.045	1.5
14	MP4A	Z	0	1.5
15	MP4A	Mx	.015	1.5
16	MP4A	X	-30.045	6.5
17	MP4A	Z	0	6.5
18	MP4A	Mx	.015	6.5
19	MP2A	X	-19.935	2
20	MP2A	Z	0	2
21	MP2A	Mx	.01	2
22	MP2A	X	-19.935	6
23	MP2A	Z	0	6
24	MP2A	Mx	.01	6
25	MP2A	X	-19.935	2
26	MP2A	Z	0	2
27	MP2A	Mx	.01	2
28	MP2A	X	-19.935	6
29	MP2A	Z	0	6
30	MP2A	Mx	.01	6
31	M45A	X	-14.785	2
32	M45A	Z	0	2
33	M45A	Mx	0	2
34	M48	X	-14.785	2
35	M48	Z	0	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-8.617	3
2	MP3A	Z	-4.975	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
3	MP3A	Mx	.004	3
4	MP3A	X	-8.617	5
5	MP3A	Z	-4.975	5
6	MP3A	Mx	.004	5
7	MP1A	X	-23.123	1.5
8	MP1A	Z	-13.35	1.5
9	MP1A	Mx	.012	1.5
10	MP1A	X	-23.123	6.5
11	MP1A	Z	-13.35	6.5
12	MP1A	Mx	.012	6.5
13	MP4A	X	-23.123	1.5
14	MP4A	Z	-13.35	1.5
15	MP4A	Mx	.012	1.5
16	MP4A	X	-23.123	6.5
17	MP4A	Z	-13.35	6.5
18	MP4A	Mx	.012	6.5
19	MP2A	X	-19.08	2
20	MP2A	Z	-11.016	2
21	MP2A	Mx	.003	2
22	MP2A	X	-19.08	6
23	MP2A	Z	-11.016	6
24	MP2A	Mx	.003	6
25	MP2A	X	-19.08	2
26	MP2A	Z	-11.016	2
27	MP2A	Mx	.016	2
28	MP2A	X	-19.08	6
29	MP2A	Z	-11.016	6
30	MP2A	Mx	.016	6
31	M45A	X	-11.876	2
32	M45A	Z	-6.857	2
33	M45A	Mx	0	2
34	M48	X	-11.523	2
35	M48	Z	-6.653	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-7.339	3
2	MP3A	Z	-12.711	3
3	MP3A	Mx	.004	3
4	MP3A	X	-7.339	5
5	MP3A	Z	-12.711	5
6	MP3A	Mx	.004	5
7	MP1A	X	-10.006	1.5
8	MP1A	Z	-17.331	1.5
9	MP1A	Mx	.005	1.5
10	MP1A	X	-10.006	6.5
11	MP1A	Z	-17.331	6.5
12	MP1A	Mx	.005	6.5
13	MP4A	X	-10.006	1.5
14	MP4A	Z	-17.331	1.5
15	MP4A	Mx	.005	1.5
16	MP4A	X	-10.006	6.5
17	MP4A	Z	-17.331	6.5
18	MP4A	Mx	.005	6.5
19	MP2A	X	-13.113	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
20	MP2A	Z	-22.712	2
21	MP2A	Mx	-.007	2
22	MP2A	X	-13.113	6
23	MP2A	Z	-22.712	6
24	MP2A	Mx	-.007	6
25	MP2A	X	-13.113	2
26	MP2A	Z	-22.712	2
27	MP2A	Mx	.02	2
28	MP2A	X	-13.113	6
29	MP2A	Z	-22.712	6
30	MP2A	Mx	.02	6
31	M45A	X	-5.784	2
32	M45A	Z	-10.019	2
33	M45A	Mx	0	2
34	M48	X	-5.173	2
35	M48	Z	-8.96	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	3
2	MP3A	Z	-5.105	3
3	MP3A	Mx	0	3
4	MP3A	X	0	5
5	MP3A	Z	-5.105	5
6	MP3A	Mx	0	5
7	MP1A	X	0	1.5
8	MP1A	Z	-4.703	1.5
9	MP1A	Mx	0	1.5
10	MP1A	X	0	6.5
11	MP1A	Z	-4.703	6.5
12	MP1A	Mx	0	6.5
13	MP4A	X	0	1.5
14	MP4A	Z	-4.703	1.5
15	MP4A	Mx	0	1.5
16	MP4A	X	0	6.5
17	MP4A	Z	-4.703	6.5
18	MP4A	Mx	0	6.5
19	MP2A	X	0	2
20	MP2A	Z	-8.776	2
21	MP2A	Mx	-.005	2
22	MP2A	X	0	6
23	MP2A	Z	-8.776	6
24	MP2A	Mx	-.005	6
25	MP2A	X	0	2
26	MP2A	Z	-8.776	2
27	MP2A	Mx	.005	2
28	MP2A	X	0	6
29	MP2A	Z	-8.776	6
30	MP2A	Mx	.005	6
31	M45A	X	0	2
32	M45A	Z	-2.715	2
33	M45A	Mx	0	2
34	M48	X	0	2
35	M48	Z	-2.199	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	2.164	3
2	MP3A	Z	-3.748	3
3	MP3A	Mx	-.001	3
4	MP3A	X	2.164	5
5	MP3A	Z	-3.748	5
6	MP3A	Mx	-.001	5
7	MP1A	X	2.935	1.5
8	MP1A	Z	-5.083	1.5
9	MP1A	Mx	-.001	1.5
10	MP1A	X	2.935	6.5
11	MP1A	Z	-5.083	6.5
12	MP1A	Mx	-.001	6.5
13	MP4A	X	2.935	1.5
14	MP4A	Z	-5.083	1.5
15	MP4A	Mx	-.001	1.5
16	MP4A	X	2.935	6.5
17	MP4A	Z	-5.083	6.5
18	MP4A	Mx	-.001	6.5
19	MP2A	X	4.016	2
20	MP2A	Z	-6.956	2
21	MP2A	Mx	-.006	2
22	MP2A	X	4.016	6
23	MP2A	Z	-6.956	6
24	MP2A	Mx	-.006	6
25	MP2A	X	4.016	2
26	MP2A	Z	-6.956	2
27	MP2A	Mx	.002	2
28	MP2A	X	4.016	6
29	MP2A	Z	-6.956	6
30	MP2A	Mx	.002	6
31	M45A	X	1.526	2
32	M45A	Z	-2.643	2
33	M45A	Mx	0	2
34	M48	X	1.332	2
35	M48	Z	-2.308	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	2.403	3
2	MP3A	Z	-1.387	3
3	MP3A	Mx	-.001	3
4	MP3A	X	2.403	5
5	MP3A	Z	-1.387	5
6	MP3A	Mx	-.001	5
7	MP1A	X	7.105	1.5
8	MP1A	Z	-4.102	1.5
9	MP1A	Mx	-.004	1.5
10	MP1A	X	7.105	6.5
11	MP1A	Z	-4.102	6.5
12	MP1A	Mx	-.004	6.5
13	MP4A	X	7.105	1.5
14	MP4A	Z	-4.102	1.5
15	MP4A	Mx	-.004	1.5
16	MP4A	X	7.105	6.5
17	MP4A	Z	-4.102	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP4A	Mx	-.004	6.5
19	MP2A	X	5.668	2
20	MP2A	Z	-3.273	2
21	MP2A	Mx	-.005	2
22	MP2A	X	5.668	6
23	MP2A	Z	-3.273	6
24	MP2A	Mx	-.005	6
25	MP2A	X	5.668	2
26	MP2A	Z	-3.273	2
27	MP2A	Mx	-.000925	2
28	MP2A	X	5.668	6
29	MP2A	Z	-3.273	6
30	MP2A	Mx	-.000925	6
31	M45A	X	3.226	2
32	M45A	Z	-1.863	2
33	M45A	Mx	0	2
34	M48	X	3.114	2
35	M48	Z	-1.798	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	1.998	3
2	MP3A	Z	0	3
3	MP3A	Mx	-.000999	3
4	MP3A	X	1.998	5
5	MP3A	Z	0	5
6	MP3A	Mx	-.000999	5
7	MP1A	X	9.371	1.5
8	MP1A	Z	0	1.5
9	MP1A	Mx	-.005	1.5
10	MP1A	X	9.371	6.5
11	MP1A	Z	0	6.5
12	MP1A	Mx	-.005	6.5
13	MP4A	X	9.371	1.5
14	MP4A	Z	0	1.5
15	MP4A	Mx	-.005	1.5
16	MP4A	X	9.371	6.5
17	MP4A	Z	0	6.5
18	MP4A	Mx	-.005	6.5
19	MP2A	X	5.802	2
20	MP2A	Z	0	2
21	MP2A	Mx	-.003	2
22	MP2A	X	5.802	6
23	MP2A	Z	0	6
24	MP2A	Mx	-.003	6
25	MP2A	X	5.802	2
26	MP2A	Z	0	2
27	MP2A	Mx	-.003	2
28	MP2A	X	5.802	6
29	MP2A	Z	0	6
30	MP2A	Mx	-.003	6
31	M45A	X	4.062	2
32	M45A	Z	0	2
33	M45A	Mx	0	2
34	M48	X	4.062	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	M48	Z	0	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	2.403	3
2	MP3A	Z	1.387	3
3	MP3A	Mx	-.001	3
4	MP3A	X	2.403	5
5	MP3A	Z	1.387	5
6	MP3A	Mx	-.001	5
7	MP1A	X	7.105	1.5
8	MP1A	Z	4.102	1.5
9	MP1A	Mx	-.004	1.5
10	MP1A	X	7.105	6.5
11	MP1A	Z	4.102	6.5
12	MP1A	Mx	-.004	6.5
13	MP4A	X	7.105	1.5
14	MP4A	Z	4.102	1.5
15	MP4A	Mx	-.004	1.5
16	MP4A	X	7.105	6.5
17	MP4A	Z	4.102	6.5
18	MP4A	Mx	-.004	6.5
19	MP2A	X	5.668	2
20	MP2A	Z	3.273	2
21	MP2A	Mx	-.000925	2
22	MP2A	X	5.668	6
23	MP2A	Z	3.273	6
24	MP2A	Mx	-.000925	6
25	MP2A	X	5.668	2
26	MP2A	Z	3.273	2
27	MP2A	Mx	-.005	2
28	MP2A	X	5.668	6
29	MP2A	Z	3.273	6
30	MP2A	Mx	-.005	6
31	M45A	X	3.226	2
32	M45A	Z	1.863	2
33	M45A	Mx	0	2
34	M48	X	3.114	2
35	M48	Z	1.798	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	2.164	3
2	MP3A	Z	3.748	3
3	MP3A	Mx	-.001	3
4	MP3A	X	2.164	5
5	MP3A	Z	3.748	5
6	MP3A	Mx	-.001	5
7	MP1A	X	2.935	1.5
8	MP1A	Z	5.083	1.5
9	MP1A	Mx	-.001	1.5
10	MP1A	X	2.935	6.5
11	MP1A	Z	5.083	6.5
12	MP1A	Mx	-.001	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP4A	X	2.935	1.5
14	MP4A	Z	5.083	1.5
15	MP4A	Mx	-.001	1.5
16	MP4A	X	2.935	6.5
17	MP4A	Z	5.083	6.5
18	MP4A	Mx	-.001	6.5
19	MP2A	X	4.016	2
20	MP2A	Z	6.956	2
21	MP2A	Mx	.002	2
22	MP2A	X	4.016	6
23	MP2A	Z	6.956	6
24	MP2A	Mx	.002	6
25	MP2A	X	4.016	2
26	MP2A	Z	6.956	2
27	MP2A	Mx	-.006	2
28	MP2A	X	4.016	6
29	MP2A	Z	6.956	6
30	MP2A	Mx	-.006	6
31	M45A	X	1.526	2
32	M45A	Z	2.643	2
33	M45A	Mx	0	2
34	M48	X	1.332	2
35	M48	Z	2.308	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	3
2	MP3A	Z	5.105	3
3	MP3A	Mx	0	3
4	MP3A	X	0	5
5	MP3A	Z	5.105	5
6	MP3A	Mx	0	5
7	MP1A	X	0	1.5
8	MP1A	Z	4.703	1.5
9	MP1A	Mx	0	1.5
10	MP1A	X	0	6.5
11	MP1A	Z	4.703	6.5
12	MP1A	Mx	0	6.5
13	MP4A	X	0	1.5
14	MP4A	Z	4.703	1.5
15	MP4A	Mx	0	1.5
16	MP4A	X	0	6.5
17	MP4A	Z	4.703	6.5
18	MP4A	Mx	0	6.5
19	MP2A	X	0	2
20	MP2A	Z	8.776	2
21	MP2A	Mx	.005	2
22	MP2A	X	0	6
23	MP2A	Z	8.776	6
24	MP2A	Mx	.005	6
25	MP2A	X	0	2
26	MP2A	Z	8.776	2
27	MP2A	Mx	-.005	2
28	MP2A	X	0	6
29	MP2A	Z	8.776	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP2A	Mx	-.005	6
31	M45A	X	0	2
32	M45A	Z	2.715	2
33	M45A	Mx	0	2
34	M48	X	0	2
35	M48	Z	2.199	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-2.164	3
2	MP3A	Z	3.748	3
3	MP3A	Mx	.001	3
4	MP3A	X	-2.164	5
5	MP3A	Z	3.748	5
6	MP3A	Mx	.001	5
7	MP1A	X	-2.935	1.5
8	MP1A	Z	5.083	1.5
9	MP1A	Mx	.001	1.5
10	MP1A	X	-2.935	6.5
11	MP1A	Z	5.083	6.5
12	MP1A	Mx	.001	6.5
13	MP4A	X	-2.935	1.5
14	MP4A	Z	5.083	1.5
15	MP4A	Mx	.001	1.5
16	MP4A	X	-2.935	6.5
17	MP4A	Z	5.083	6.5
18	MP4A	Mx	.001	6.5
19	MP2A	X	-4.016	2
20	MP2A	Z	6.956	2
21	MP2A	Mx	.006	2
22	MP2A	X	-4.016	6
23	MP2A	Z	6.956	6
24	MP2A	Mx	.006	6
25	MP2A	X	-4.016	2
26	MP2A	Z	6.956	2
27	MP2A	Mx	-.002	2
28	MP2A	X	-4.016	6
29	MP2A	Z	6.956	6
30	MP2A	Mx	-.002	6
31	M45A	X	-1.526	2
32	M45A	Z	2.643	2
33	M45A	Mx	0	2
34	M48	X	-1.332	2
35	M48	Z	2.308	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-2.403	3
2	MP3A	Z	1.387	3
3	MP3A	Mx	.001	3
4	MP3A	X	-2.403	5
5	MP3A	Z	1.387	5
6	MP3A	Mx	.001	5
7	MP1A	X	-7.105	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP1A	Z	4.102	1.5
9	MP1A	Mx	.004	1.5
10	MP1A	X	-7.105	6.5
11	MP1A	Z	4.102	6.5
12	MP1A	Mx	.004	6.5
13	MP4A	X	-7.105	1.5
14	MP4A	Z	4.102	1.5
15	MP4A	Mx	.004	1.5
16	MP4A	X	-7.105	6.5
17	MP4A	Z	4.102	6.5
18	MP4A	Mx	.004	6.5
19	MP2A	X	-5.668	2
20	MP2A	Z	3.273	2
21	MP2A	Mx	.005	2
22	MP2A	X	-5.668	6
23	MP2A	Z	3.273	6
24	MP2A	Mx	.005	6
25	MP2A	X	-5.668	2
26	MP2A	Z	3.273	2
27	MP2A	Mx	.000925	2
28	MP2A	X	-5.668	6
29	MP2A	Z	3.273	6
30	MP2A	Mx	.000925	6
31	M45A	X	-3.226	2
32	M45A	Z	1.863	2
33	M45A	Mx	0	2
34	M48	X	-3.114	2
35	M48	Z	1.798	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-1.998	3
2	MP3A	Z	0	3
3	MP3A	Mx	.000999	3
4	MP3A	X	-1.998	5
5	MP3A	Z	0	5
6	MP3A	Mx	.000999	5
7	MP1A	X	-9.371	1.5
8	MP1A	Z	0	1.5
9	MP1A	Mx	.005	1.5
10	MP1A	X	-9.371	6.5
11	MP1A	Z	0	6.5
12	MP1A	Mx	.005	6.5
13	MP4A	X	-9.371	1.5
14	MP4A	Z	0	1.5
15	MP4A	Mx	.005	1.5
16	MP4A	X	-9.371	6.5
17	MP4A	Z	0	6.5
18	MP4A	Mx	.005	6.5
19	MP2A	X	-5.802	2
20	MP2A	Z	0	2
21	MP2A	Mx	.003	2
22	MP2A	X	-5.802	6
23	MP2A	Z	0	6
24	MP2A	Mx	.003	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP2A	X	-5.802	2
26	MP2A	Z	0	2
27	MP2A	Mx	.003	2
28	MP2A	X	-5.802	6
29	MP2A	Z	0	6
30	MP2A	Mx	.003	6
31	M45A	X	-4.062	2
32	M45A	Z	0	2
33	M45A	Mx	0	2
34	M48	X	-4.062	2
35	M48	Z	0	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-2.403	3
2	MP3A	Z	-1.387	3
3	MP3A	Mx	.001	3
4	MP3A	X	-2.403	5
5	MP3A	Z	-1.387	5
6	MP3A	Mx	.001	5
7	MP1A	X	-7.105	1.5
8	MP1A	Z	-4.102	1.5
9	MP1A	Mx	.004	1.5
10	MP1A	X	-7.105	6.5
11	MP1A	Z	-4.102	6.5
12	MP1A	Mx	.004	6.5
13	MP4A	X	-7.105	1.5
14	MP4A	Z	-4.102	1.5
15	MP4A	Mx	.004	1.5
16	MP4A	X	-7.105	6.5
17	MP4A	Z	-4.102	6.5
18	MP4A	Mx	.004	6.5
19	MP2A	X	-5.668	2
20	MP2A	Z	-3.273	2
21	MP2A	Mx	.000925	2
22	MP2A	X	-5.668	6
23	MP2A	Z	-3.273	6
24	MP2A	Mx	.000925	6
25	MP2A	X	-5.668	2
26	MP2A	Z	-3.273	2
27	MP2A	Mx	.005	2
28	MP2A	X	-5.668	6
29	MP2A	Z	-3.273	6
30	MP2A	Mx	.005	6
31	M45A	X	-3.226	2
32	M45A	Z	-1.863	2
33	M45A	Mx	0	2
34	M48	X	-3.114	2
35	M48	Z	-1.798	2
36	M48	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-2.164	3
2	MP3A	Z	-3.748	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
3	MP3A	Mx	.001	3
4	MP3A	X	-2.164	5
5	MP3A	Z	-3.748	5
6	MP3A	Mx	.001	5
7	MP1A	X	-2.935	1.5
8	MP1A	Z	-5.083	1.5
9	MP1A	Mx	.001	1.5
10	MP1A	X	-2.935	6.5
11	MP1A	Z	-5.083	6.5
12	MP1A	Mx	.001	6.5
13	MP4A	X	-2.935	1.5
14	MP4A	Z	-5.083	1.5
15	MP4A	Mx	.001	1.5
16	MP4A	X	-2.935	6.5
17	MP4A	Z	-5.083	6.5
18	MP4A	Mx	.001	6.5
19	MP2A	X	-4.016	2
20	MP2A	Z	-6.956	2
21	MP2A	Mx	-.002	2
22	MP2A	X	-4.016	6
23	MP2A	Z	-6.956	6
24	MP2A	Mx	-.002	6
25	MP2A	X	-4.016	2
26	MP2A	Z	-6.956	2
27	MP2A	Mx	.006	2
28	MP2A	X	-4.016	6
29	MP2A	Z	-6.956	6
30	MP2A	Mx	.006	6
31	M45A	X	-1.526	2
32	M45A	Z	-2.643	2
33	M45A	Mx	0	2
34	M48	X	-1.332	2
35	M48	Z	-2.308	2
36	M48	Mx	0	2

Member Point Loads (BLC 77 : Lm1)

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

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-500	%33

Member Point Loads (BLC 79 : Lv1)

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

Member Point Loads (BLC 80 : Lv2)

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

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	Y	-10.006	-10.006	0	%100
2	M2	Y	-10.006	-10.006	0	%100
3	M13	Y	-12.537	-12.537	0	%100
4	M14	Y	-12.537	-12.537	0	%100
5	M15	Y	-12.537	-12.537	0	%100
6	M16	Y	-12.537	-12.537	0	%100
7	M17	Y	-8.928	-8.928	0	%100
8	M18	Y	-8.928	-8.928	0	%100
9	M19	Y	-8.928	-8.928	0	%100
10	M20	Y	-8.928	-8.928	0	%100
11	M21	Y	-12.537	-12.537	0	%100
12	M22	Y	-12.537	-12.537	0	%100
13	M23	Y	-12.537	-12.537	0	%100
14	M24	Y	-12.537	-12.537	0	%100
15	M25	Y	-5.424	-5.424	0	%100
16	M26	Y	-5.424	-5.424	0	%100
17	M27	Y	-5.424	-5.424	0	%100
18	M28	Y	-5.424	-5.424	0	%100
19	M44	Y	-5.154	-5.154	0	%100
20	M45	Y	-5.154	-5.154	0	%100
21	M46	Y	-5.154	-5.154	0	%100
22	M47	Y	-5.154	-5.154	0	%100
23	MP1A	Y	-8.928	-8.928	0	%100
24	MP2A	Y	-8.928	-8.928	0	%100
25	MP3A	Y	-8.928	-8.928	0	%100
26	MP4A	Y	-8.928	-8.928	0	%100
27	M45A	Y	-8.928	-8.928	0	%100
28	M48	Y	-8.928	-8.928	0	%100
29	M49	Y	-8.928	-8.928	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-9.177	-9.177	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-9.177	-9.177	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	-3.623	-3.623	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	-3.623	-3.623	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	-3.623	-3.623	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	-3.623	-3.623	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	-1.995	-1.995	0	%100
23	M22	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,%]
24	M22	Z	-1.995	-1.995	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	-1.995	-1.995	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-1.995	-1.995	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-2.066	-2.066	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-2.066	-2.066	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-2.066	-2.066	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-2.066	-2.066	0	%100
37	M44	X	0	0	0	%100
38	M44	Z	-1.995	-1.995	0	%100
39	M45	X	0	0	0	%100
40	M45	Z	-1.995	-1.995	0	%100
41	M46	X	0	0	0	%100
42	M46	Z	-1.995	-1.995	0	%100
43	M47	X	0	0	0	%100
44	M47	Z	-1.995	-1.995	0	%100
45	MP1A	X	0	0	0	%100
46	MP1A	Z	-7.581	-7.581	0	%100
47	MP2A	X	0	0	0	%100
48	MP2A	Z	-7.581	-7.581	0	%100
49	MP3A	X	0	0	0	%100
50	MP3A	Z	-7.581	-7.581	0	%100
51	MP4A	X	0	0	0	%100
52	MP4A	Z	-7.581	-7.581	0	%100
53	M45A	X	0	0	0	%100
54	M45A	Z	-6.967	-6.967	0	%100
55	M48	X	0	0	0	%100
56	M48	Z	-6.967	-6.967	0	%100
57	M49	X	0	0	0	%100
58	M49	Z	-1.054	-1.054	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	3.441	3.441	0	%100
2	M1	Z	-5.96	-5.96	0	%100
3	M2	X	3.441	3.441	0	%100
4	M2	Z	-5.96	-5.96	0	%100
5	M13	X	.249	.249	0	%100
6	M13	Z	-.432	-.432	0	%100
7	M14	X	.249	.249	0	%100
8	M14	Z	-.432	-.432	0	%100
9	M15	X	.249	.249	0	%100
10	M15	Z	-.432	-.432	0	%100
11	M16	X	.249	.249	0	%100
12	M16	Z	-.432	-.432	0	%100
13	M17	X	.408	.408	0	%100
14	M17	Z	-.706	-.706	0	%100
15	M18	X	.408	.408	0	%100
16	M18	Z	-.706	-.706	0	%100
17	M19	X	2.865	2.865	0	%100
18	M19	Z	-4.962	-4.962	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,%]
19	M20	X	2.865	2.865	0	%100
20	M20	Z	-4.962	-4.962	0	%100
21	M21	X	.748	.748	0	%100
22	M21	Z	-1.296	-1.296	0	%100
23	M22	X	.748	.748	0	%100
24	M22	Z	-1.296	-1.296	0	%100
25	M23	X	.748	.748	0	%100
26	M23	Z	-1.296	-1.296	0	%100
27	M24	X	.748	.748	0	%100
28	M24	Z	-1.296	-1.296	0	%100
29	M25	X	.826	.826	0	%100
30	M25	Z	-1.431	-1.431	0	%100
31	M26	X	.826	.826	0	%100
32	M26	Z	-1.431	-1.431	0	%100
33	M27	X	1.188	1.188	0	%100
34	M27	Z	-2.059	-2.059	0	%100
35	M28	X	1.188	1.188	0	%100
36	M28	Z	-2.059	-2.059	0	%100
37	M44	X	.997	.997	0	%100
38	M44	Z	-1.728	-1.728	0	%100
39	M45	X	.997	.997	0	%100
40	M45	Z	-1.728	-1.728	0	%100
41	M46	X	.997	.997	0	%100
42	M46	Z	-1.728	-1.728	0	%100
43	M47	X	.997	.997	0	%100
44	M47	Z	-1.728	-1.728	0	%100
45	MP1A	X	3.79	3.79	0	%100
46	MP1A	Z	-6.565	-6.565	0	%100
47	MP2A	X	3.79	3.79	0	%100
48	MP2A	Z	-6.565	-6.565	0	%100
49	MP3A	X	3.79	3.79	0	%100
50	MP3A	Z	-6.565	-6.565	0	%100
51	MP4A	X	3.79	3.79	0	%100
52	MP4A	Z	-6.565	-6.565	0	%100
53	M45A	X	3.484	3.484	0	%100
54	M45A	Z	-6.034	-6.034	0	%100
55	M48	X	3.484	3.484	0	%100
56	M48	Z	-6.034	-6.034	0	%100
57	M49	X	2.347	2.347	0	%100
58	M49	Z	-4.065	-4.065	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.987	1.987	0	%100
2	M1	Z	-1.147	-1.147	0	%100
3	M2	X	1.987	1.987	0	%100
4	M2	Z	-1.147	-1.147	0	%100
5	M13	X	1.296	1.296	0	%100
6	M13	Z	-.748	-.748	0	%100
7	M14	X	1.296	1.296	0	%100
8	M14	Z	-.748	-.748	0	%100
9	M15	X	1.296	1.296	0	%100
10	M15	Z	-.748	-.748	0	%100
11	M16	X	1.296	1.296	0	%100
12	M16	Z	-.748	-.748	0	%100
13	M17	X	.1	.1	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,%]
14	M17	Z	-.057	-.057	0	%100
15	M18	X	.1	.1	0	%100
16	M18	Z	-.057	-.057	0	%100
17	M19	X	4.355	4.355	0	%100
18	M19	Z	-2.515	-2.515	0	%100
19	M20	X	4.355	4.355	0	%100
20	M20	Z	-2.515	-2.515	0	%100
21	M21	X	.432	.432	0	%100
22	M21	Z	-.249	-.249	0	%100
23	M22	X	.432	.432	0	%100
24	M22	Z	-.249	-.249	0	%100
25	M23	X	.432	.432	0	%100
26	M23	Z	-.249	-.249	0	%100
27	M24	X	.432	.432	0	%100
28	M24	Z	-.249	-.249	0	%100
29	M25	X	1.341	1.341	0	%100
30	M25	Z	-.774	-.774	0	%100
31	M26	X	1.341	1.341	0	%100
32	M26	Z	-.774	-.774	0	%100
33	M27	X	1.969	1.969	0	%100
34	M27	Z	-1.137	-1.137	0	%100
35	M28	X	1.969	1.969	0	%100
36	M28	Z	-1.137	-1.137	0	%100
37	M44	X	1.728	1.728	0	%100
38	M44	Z	-.997	-.997	0	%100
39	M45	X	1.728	1.728	0	%100
40	M45	Z	-.997	-.997	0	%100
41	M46	X	1.728	1.728	0	%100
42	M46	Z	-.997	-.997	0	%100
43	M47	X	1.728	1.728	0	%100
44	M47	Z	-.997	-.997	0	%100
45	MP1A	X	6.565	6.565	0	%100
46	MP1A	Z	-3.79	-3.79	0	%100
47	MP2A	X	6.565	6.565	0	%100
48	MP2A	Z	-3.79	-3.79	0	%100
49	MP3A	X	6.565	6.565	0	%100
50	MP3A	Z	-3.79	-3.79	0	%100
51	MP4A	X	6.565	6.565	0	%100
52	MP4A	Z	-3.79	-3.79	0	%100
53	M45A	X	6.034	6.034	0	%100
54	M45A	Z	-3.484	-3.484	0	%100
55	M48	X	6.034	6.034	0	%100
56	M48	Z	-3.484	-3.484	0	%100
57	M49	X	6.435	6.435	0	%100
58	M49	Z	-3.715	-3.715	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	1.995	1.995	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	1.995	1.995	0	%100
8	M14	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,%]
9	M15	X	1.995	1.995	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	1.995	1.995	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	2.222	2.222	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	2.222	2.222	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	2.222	2.222	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	2.222	2.222	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	1.86	1.86	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	1.86	1.86	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	1.86	1.86	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	1.86	1.86	0	%100
36	M28	Z	0	0	0	%100
37	M44	X	1.995	1.995	0	%100
38	M44	Z	0	0	0	%100
39	M45	X	1.995	1.995	0	%100
40	M45	Z	0	0	0	%100
41	M46	X	1.995	1.995	0	%100
42	M46	Z	0	0	0	%100
43	M47	X	1.995	1.995	0	%100
44	M47	Z	0	0	0	%100
45	MP1A	X	7.581	7.581	0	%100
46	MP1A	Z	0	0	0	%100
47	MP2A	X	7.581	7.581	0	%100
48	MP2A	Z	0	0	0	%100
49	MP3A	X	7.581	7.581	0	%100
50	MP3A	Z	0	0	0	%100
51	MP4A	X	7.581	7.581	0	%100
52	MP4A	Z	0	0	0	%100
53	M45A	X	6.967	6.967	0	%100
54	M45A	Z	0	0	0	%100
55	M48	X	6.967	6.967	0	%100
56	M48	Z	0	0	0	%100
57	M49	X	6.527	6.527	0	%100
58	M49	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.987	1.987	0	%100
2	M1	Z	1.147	1.147	0	%100
3	M2	X	1.987	1.987	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,%]
4	M2	Z	1.147	1.147	0	%100
5	M13	X	1.296	1.296	0	%100
6	M13	Z	.748	.748	0	%100
7	M14	X	1.296	1.296	0	%100
8	M14	Z	.748	.748	0	%100
9	M15	X	1.296	1.296	0	%100
10	M15	Z	.748	.748	0	%100
11	M16	X	1.296	1.296	0	%100
12	M16	Z	.748	.748	0	%100
13	M17	X	4.355	4.355	0	%100
14	M17	Z	2.515	2.515	0	%100
15	M18	X	4.355	4.355	0	%100
16	M18	Z	2.515	2.515	0	%100
17	M19	X	.1	.1	0	%100
18	M19	Z	.057	.057	0	%100
19	M20	X	.1	.1	0	%100
20	M20	Z	.057	.057	0	%100
21	M21	X	.432	.432	0	%100
22	M21	Z	.249	.249	0	%100
23	M22	X	.432	.432	0	%100
24	M22	Z	.249	.249	0	%100
25	M23	X	.432	.432	0	%100
26	M23	Z	.249	.249	0	%100
27	M24	X	.432	.432	0	%100
28	M24	Z	.249	.249	0	%100
29	M25	X	1.969	1.969	0	%100
30	M25	Z	1.137	1.137	0	%100
31	M26	X	1.969	1.969	0	%100
32	M26	Z	1.137	1.137	0	%100
33	M27	X	1.341	1.341	0	%100
34	M27	Z	.774	.774	0	%100
35	M28	X	1.341	1.341	0	%100
36	M28	Z	.774	.774	0	%100
37	M44	X	1.728	1.728	0	%100
38	M44	Z	.997	.997	0	%100
39	M45	X	1.728	1.728	0	%100
40	M45	Z	.997	.997	0	%100
41	M46	X	1.728	1.728	0	%100
42	M46	Z	.997	.997	0	%100
43	M47	X	1.728	1.728	0	%100
44	M47	Z	.997	.997	0	%100
45	MP1A	X	6.565	6.565	0	%100
46	MP1A	Z	3.79	3.79	0	%100
47	MP2A	X	6.565	6.565	0	%100
48	MP2A	Z	3.79	3.79	0	%100
49	MP3A	X	6.565	6.565	0	%100
50	MP3A	Z	3.79	3.79	0	%100
51	MP4A	X	6.565	6.565	0	%100
52	MP4A	Z	3.79	3.79	0	%100
53	M45A	X	6.034	6.034	0	%100
54	M45A	Z	3.484	3.484	0	%100
55	M48	X	6.034	6.034	0	%100
56	M48	Z	3.484	3.484	0	%100
57	M49	X	2.5	2.5	0	%100
58	M49	Z	1.443	1.443	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	3.441	3.441	0	%100
2	M1	Z	5.96	5.96	0	%100
3	M2	X	3.441	3.441	0	%100
4	M2	Z	5.96	5.96	0	%100
5	M13	X	.249	.249	0	%100
6	M13	Z	.432	.432	0	%100
7	M14	X	.249	.249	0	%100
8	M14	Z	.432	.432	0	%100
9	M15	X	.249	.249	0	%100
10	M15	Z	.432	.432	0	%100
11	M16	X	.249	.249	0	%100
12	M16	Z	.432	.432	0	%100
13	M17	X	2.865	2.865	0	%100
14	M17	Z	4.962	4.962	0	%100
15	M18	X	2.865	2.865	0	%100
16	M18	Z	4.962	4.962	0	%100
17	M19	X	.408	.408	0	%100
18	M19	Z	.706	.706	0	%100
19	M20	X	.408	.408	0	%100
20	M20	Z	.706	.706	0	%100
21	M21	X	.748	.748	0	%100
22	M21	Z	1.296	1.296	0	%100
23	M22	X	.748	.748	0	%100
24	M22	Z	1.296	1.296	0	%100
25	M23	X	.748	.748	0	%100
26	M23	Z	1.296	1.296	0	%100
27	M24	X	.748	.748	0	%100
28	M24	Z	1.296	1.296	0	%100
29	M25	X	1.188	1.188	0	%100
30	M25	Z	2.059	2.059	0	%100
31	M26	X	1.188	1.188	0	%100
32	M26	Z	2.059	2.059	0	%100
33	M27	X	.826	.826	0	%100
34	M27	Z	1.431	1.431	0	%100
35	M28	X	.826	.826	0	%100
36	M28	Z	1.431	1.431	0	%100
37	M44	X	.997	.997	0	%100
38	M44	Z	1.728	1.728	0	%100
39	M45	X	.997	.997	0	%100
40	M45	Z	1.728	1.728	0	%100
41	M46	X	.997	.997	0	%100
42	M46	Z	1.728	1.728	0	%100
43	M47	X	.997	.997	0	%100
44	M47	Z	1.728	1.728	0	%100
45	MP1A	X	3.79	3.79	0	%100
46	MP1A	Z	6.565	6.565	0	%100
47	MP2A	X	3.79	3.79	0	%100
48	MP2A	Z	6.565	6.565	0	%100
49	MP3A	X	3.79	3.79	0	%100
50	MP3A	Z	6.565	6.565	0	%100
51	MP4A	X	3.79	3.79	0	%100
52	MP4A	Z	6.565	6.565	0	%100
53	M45A	X	3.484	3.484	0	%100
54	M45A	Z	6.034	6.034	0	%100
55	M48	X	3.484	3.484	0	%100
56	M48	Z	6.034	6.034	0	%100
57	M49	X	.075	.075	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M49	Z	.13	.13	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	9.177	9.177	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	9.177	9.177	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	3.623	3.623	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	3.623	3.623	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	3.623	3.623	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	3.623	3.623	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	1.995	1.995	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	1.995	1.995	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	1.995	1.995	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	1.995	1.995	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	2.066	2.066	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	2.066	2.066	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	2.066	2.066	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	2.066	2.066	0	%100
37	M44	X	0	0	0	%100
38	M44	Z	1.995	1.995	0	%100
39	M45	X	0	0	0	%100
40	M45	Z	1.995	1.995	0	%100
41	M46	X	0	0	0	%100
42	M46	Z	1.995	1.995	0	%100
43	M47	X	0	0	0	%100
44	M47	Z	1.995	1.995	0	%100
45	MP1A	X	0	0	0	%100
46	MP1A	Z	7.581	7.581	0	%100
47	MP2A	X	0	0	0	%100
48	MP2A	Z	7.581	7.581	0	%100
49	MP3A	X	0	0	0	%100
50	MP3A	Z	7.581	7.581	0	%100
51	MP4A	X	0	0	0	%100
52	MP4A	Z	7.581	7.581	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,%]
53	M45A	X	0	0	0	%100
54	M45A	Z	6.967	6.967	0	%100
55	M48	X	0	0	0	%100
56	M48	Z	6.967	6.967	0	%100
57	M49	X	0	0	0	%100
58	M49	Z	1.054	1.054	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-3.441	-3.441	0	%100
2	M1	Z	5.96	5.96	0	%100
3	M2	X	-3.441	-3.441	0	%100
4	M2	Z	5.96	5.96	0	%100
5	M13	X	-.249	-.249	0	%100
6	M13	Z	.432	.432	0	%100
7	M14	X	-.249	-.249	0	%100
8	M14	Z	.432	.432	0	%100
9	M15	X	-.249	-.249	0	%100
10	M15	Z	.432	.432	0	%100
11	M16	X	-.249	-.249	0	%100
12	M16	Z	.432	.432	0	%100
13	M17	X	-.408	-.408	0	%100
14	M17	Z	.706	.706	0	%100
15	M18	X	-.408	-.408	0	%100
16	M18	Z	.706	.706	0	%100
17	M19	X	-2.865	-2.865	0	%100
18	M19	Z	4.962	4.962	0	%100
19	M20	X	-2.865	-2.865	0	%100
20	M20	Z	4.962	4.962	0	%100
21	M21	X	-.748	-.748	0	%100
22	M21	Z	1.296	1.296	0	%100
23	M22	X	-.748	-.748	0	%100
24	M22	Z	1.296	1.296	0	%100
25	M23	X	-.748	-.748	0	%100
26	M23	Z	1.296	1.296	0	%100
27	M24	X	-.748	-.748	0	%100
28	M24	Z	1.296	1.296	0	%100
29	M25	X	-.826	-.826	0	%100
30	M25	Z	1.431	1.431	0	%100
31	M26	X	-.826	-.826	0	%100
32	M26	Z	1.431	1.431	0	%100
33	M27	X	-1.188	-1.188	0	%100
34	M27	Z	2.059	2.059	0	%100
35	M28	X	-1.188	-1.188	0	%100
36	M28	Z	2.059	2.059	0	%100
37	M44	X	-.997	-.997	0	%100
38	M44	Z	1.728	1.728	0	%100
39	M45	X	-.997	-.997	0	%100
40	M45	Z	1.728	1.728	0	%100
41	M46	X	-.997	-.997	0	%100
42	M46	Z	1.728	1.728	0	%100
43	M47	X	-.997	-.997	0	%100
44	M47	Z	1.728	1.728	0	%100
45	MP1A	X	-3.79	-3.79	0	%100
46	MP1A	Z	6.565	6.565	0	%100
47	MP2A	X	-3.79	-3.79	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,%]
48	MP2A	Z	6.565	6.565	0	%100
49	MP3A	X	-3.79	-3.79	0	%100
50	MP3A	Z	6.565	6.565	0	%100
51	MP4A	X	-3.79	-3.79	0	%100
52	MP4A	Z	6.565	6.565	0	%100
53	M45A	X	-3.484	-3.484	0	%100
54	M45A	Z	6.034	6.034	0	%100
55	M48	X	-3.484	-3.484	0	%100
56	M48	Z	6.034	6.034	0	%100
57	M49	X	-2.347	-2.347	0	%100
58	M49	Z	4.065	4.065	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.987	-1.987	0	%100
2	M1	Z	1.147	1.147	0	%100
3	M2	X	-1.987	-1.987	0	%100
4	M2	Z	1.147	1.147	0	%100
5	M13	X	-1.296	-1.296	0	%100
6	M13	Z	.748	.748	0	%100
7	M14	X	-1.296	-1.296	0	%100
8	M14	Z	.748	.748	0	%100
9	M15	X	-1.296	-1.296	0	%100
10	M15	Z	.748	.748	0	%100
11	M16	X	-1.296	-1.296	0	%100
12	M16	Z	.748	.748	0	%100
13	M17	X	-.1	-.1	0	%100
14	M17	Z	.057	.057	0	%100
15	M18	X	-.1	-.1	0	%100
16	M18	Z	.057	.057	0	%100
17	M19	X	-4.355	-4.355	0	%100
18	M19	Z	2.515	2.515	0	%100
19	M20	X	-4.355	-4.355	0	%100
20	M20	Z	2.515	2.515	0	%100
21	M21	X	-.432	-.432	0	%100
22	M21	Z	.249	.249	0	%100
23	M22	X	-.432	-.432	0	%100
24	M22	Z	.249	.249	0	%100
25	M23	X	-.432	-.432	0	%100
26	M23	Z	.249	.249	0	%100
27	M24	X	-.432	-.432	0	%100
28	M24	Z	.249	.249	0	%100
29	M25	X	-1.341	-1.341	0	%100
30	M25	Z	.774	.774	0	%100
31	M26	X	-1.341	-1.341	0	%100
32	M26	Z	.774	.774	0	%100
33	M27	X	-1.969	-1.969	0	%100
34	M27	Z	1.137	1.137	0	%100
35	M28	X	-1.969	-1.969	0	%100
36	M28	Z	1.137	1.137	0	%100
37	M44	X	-1.728	-1.728	0	%100
38	M44	Z	.997	.997	0	%100
39	M45	X	-1.728	-1.728	0	%100
40	M45	Z	.997	.997	0	%100
41	M46	X	-1.728	-1.728	0	%100
42	M46	Z	.997	.997	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,%]
43	M47	X	-1.728	-1.728	0	%100
44	M47	Z	.997	.997	0	%100
45	MP1A	X	-6.565	-6.565	0	%100
46	MP1A	Z	3.79	3.79	0	%100
47	MP2A	X	-6.565	-6.565	0	%100
48	MP2A	Z	3.79	3.79	0	%100
49	MP3A	X	-6.565	-6.565	0	%100
50	MP3A	Z	3.79	3.79	0	%100
51	MP4A	X	-6.565	-6.565	0	%100
52	MP4A	Z	3.79	3.79	0	%100
53	M45A	X	-6.034	-6.034	0	%100
54	M45A	Z	3.484	3.484	0	%100
55	M48	X	-6.034	-6.034	0	%100
56	M48	Z	3.484	3.484	0	%100
57	M49	X	-6.435	-6.435	0	%100
58	M49	Z	3.715	3.715	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	-1.995	-1.995	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	-1.995	-1.995	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	-1.995	-1.995	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	-1.995	-1.995	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	-2.222	-2.222	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	-2.222	-2.222	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	-2.222	-2.222	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	-2.222	-2.222	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	-1.86	-1.86	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	-1.86	-1.86	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	-1.86	-1.86	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	-1.86	-1.86	0	%100
36	M28	Z	0	0	0	%100
37	M44	X	-1.995	-1.995	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,%]
38	M44	Z	0	0	0	%100
39	M45	X	-1.995	-1.995	0	%100
40	M45	Z	0	0	0	%100
41	M46	X	-1.995	-1.995	0	%100
42	M46	Z	0	0	0	%100
43	M47	X	-1.995	-1.995	0	%100
44	M47	Z	0	0	0	%100
45	MP1A	X	-7.581	-7.581	0	%100
46	MP1A	Z	0	0	0	%100
47	MP2A	X	-7.581	-7.581	0	%100
48	MP2A	Z	0	0	0	%100
49	MP3A	X	-7.581	-7.581	0	%100
50	MP3A	Z	0	0	0	%100
51	MP4A	X	-7.581	-7.581	0	%100
52	MP4A	Z	0	0	0	%100
53	M45A	X	-6.967	-6.967	0	%100
54	M45A	Z	0	0	0	%100
55	M48	X	-6.967	-6.967	0	%100
56	M48	Z	0	0	0	%100
57	M49	X	-6.527	-6.527	0	%100
58	M49	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.987	-1.987	0	%100
2	M1	Z	-1.147	-1.147	0	%100
3	M2	X	-1.987	-1.987	0	%100
4	M2	Z	-1.147	-1.147	0	%100
5	M13	X	-1.296	-1.296	0	%100
6	M13	Z	-.748	-.748	0	%100
7	M14	X	-1.296	-1.296	0	%100
8	M14	Z	-.748	-.748	0	%100
9	M15	X	-1.296	-1.296	0	%100
10	M15	Z	-.748	-.748	0	%100
11	M16	X	-1.296	-1.296	0	%100
12	M16	Z	-.748	-.748	0	%100
13	M17	X	-4.355	-4.355	0	%100
14	M17	Z	-2.515	-2.515	0	%100
15	M18	X	-4.355	-4.355	0	%100
16	M18	Z	-2.515	-2.515	0	%100
17	M19	X	-.1	-.1	0	%100
18	M19	Z	-.057	-.057	0	%100
19	M20	X	-.1	-.1	0	%100
20	M20	Z	-.057	-.057	0	%100
21	M21	X	-.432	-.432	0	%100
22	M21	Z	-.249	-.249	0	%100
23	M22	X	-.432	-.432	0	%100
24	M22	Z	-.249	-.249	0	%100
25	M23	X	-.432	-.432	0	%100
26	M23	Z	-.249	-.249	0	%100
27	M24	X	-.432	-.432	0	%100
28	M24	Z	-.249	-.249	0	%100
29	M25	X	-1.969	-1.969	0	%100
30	M25	Z	-1.137	-1.137	0	%100
31	M26	X	-1.969	-1.969	0	%100
32	M26	Z	-1.137	-1.137	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,%]
33	M27	X	-1.341	-1.341	0	%100
34	M27	Z	-.774	-.774	0	%100
35	M28	X	-1.341	-1.341	0	%100
36	M28	Z	-.774	-.774	0	%100
37	M44	X	-1.728	-1.728	0	%100
38	M44	Z	-.997	-.997	0	%100
39	M45	X	-1.728	-1.728	0	%100
40	M45	Z	-.997	-.997	0	%100
41	M46	X	-1.728	-1.728	0	%100
42	M46	Z	-.997	-.997	0	%100
43	M47	X	-1.728	-1.728	0	%100
44	M47	Z	-.997	-.997	0	%100
45	MP1A	X	-6.565	-6.565	0	%100
46	MP1A	Z	-3.79	-3.79	0	%100
47	MP2A	X	-6.565	-6.565	0	%100
48	MP2A	Z	-3.79	-3.79	0	%100
49	MP3A	X	-6.565	-6.565	0	%100
50	MP3A	Z	-3.79	-3.79	0	%100
51	MP4A	X	-6.565	-6.565	0	%100
52	MP4A	Z	-3.79	-3.79	0	%100
53	M45A	X	-6.034	-6.034	0	%100
54	M45A	Z	-3.484	-3.484	0	%100
55	M48	X	-6.034	-6.034	0	%100
56	M48	Z	-3.484	-3.484	0	%100
57	M49	X	-2.5	-2.5	0	%100
58	M49	Z	-1.443	-1.443	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-3.441	-3.441	0	%100
2	M1	Z	-5.96	-5.96	0	%100
3	M2	X	-3.441	-3.441	0	%100
4	M2	Z	-5.96	-5.96	0	%100
5	M13	X	-.249	-.249	0	%100
6	M13	Z	-.432	-.432	0	%100
7	M14	X	-.249	-.249	0	%100
8	M14	Z	-.432	-.432	0	%100
9	M15	X	-.249	-.249	0	%100
10	M15	Z	-.432	-.432	0	%100
11	M16	X	-.249	-.249	0	%100
12	M16	Z	-.432	-.432	0	%100
13	M17	X	-2.865	-2.865	0	%100
14	M17	Z	-4.962	-4.962	0	%100
15	M18	X	-2.865	-2.865	0	%100
16	M18	Z	-4.962	-4.962	0	%100
17	M19	X	-.408	-.408	0	%100
18	M19	Z	-.706	-.706	0	%100
19	M20	X	-.408	-.408	0	%100
20	M20	Z	-.706	-.706	0	%100
21	M21	X	-.748	-.748	0	%100
22	M21	Z	-1.296	-1.296	0	%100
23	M22	X	-.748	-.748	0	%100
24	M22	Z	-1.296	-1.296	0	%100
25	M23	X	-.748	-.748	0	%100
26	M23	Z	-1.296	-1.296	0	%100
27	M24	X	-.748	-.748	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,%]
28	M24	Z	-1.296	-1.296	0	%100
29	M25	X	-1.188	-1.188	0	%100
30	M25	Z	-2.059	-2.059	0	%100
31	M26	X	-1.188	-1.188	0	%100
32	M26	Z	-2.059	-2.059	0	%100
33	M27	X	-.826	-.826	0	%100
34	M27	Z	-1.431	-1.431	0	%100
35	M28	X	-.826	-.826	0	%100
36	M28	Z	-1.431	-1.431	0	%100
37	M44	X	-.997	-.997	0	%100
38	M44	Z	-1.728	-1.728	0	%100
39	M45	X	-.997	-.997	0	%100
40	M45	Z	-1.728	-1.728	0	%100
41	M46	X	-.997	-.997	0	%100
42	M46	Z	-1.728	-1.728	0	%100
43	M47	X	-.997	-.997	0	%100
44	M47	Z	-1.728	-1.728	0	%100
45	MP1A	X	-3.79	-3.79	0	%100
46	MP1A	Z	-6.565	-6.565	0	%100
47	MP2A	X	-3.79	-3.79	0	%100
48	MP2A	Z	-6.565	-6.565	0	%100
49	MP3A	X	-3.79	-3.79	0	%100
50	MP3A	Z	-6.565	-6.565	0	%100
51	MP4A	X	-3.79	-3.79	0	%100
52	MP4A	Z	-6.565	-6.565	0	%100
53	M45A	X	-3.484	-3.484	0	%100
54	M45A	Z	-6.034	-6.034	0	%100
55	M48	X	-3.484	-3.484	0	%100
56	M48	Z	-6.034	-6.034	0	%100
57	M49	X	-.075	-.075	0	%100
58	M49	Z	-.13	-.13	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-3.865	-3.865	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-3.865	-3.865	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	-1.602	-1.602	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	-1.602	-1.602	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	-1.602	-1.602	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	-1.602	-1.602	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	-1.62	-1.62	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,%]
23	M22	X	0	0	0	%100
24	M22	Z	-1.62	-1.62	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	-1.62	-1.62	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-1.62	-1.62	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-1.86	-1.86	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-1.86	-1.86	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-1.86	-1.86	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-1.86	-1.86	0	%100
37	M44	X	0	0	0	%100
38	M44	Z	-1.968	-1.968	0	%100
39	M45	X	0	0	0	%100
40	M45	Z	-1.968	-1.968	0	%100
41	M46	X	0	0	0	%100
42	M46	Z	-1.968	-1.968	0	%100
43	M47	X	0	0	0	%100
44	M47	Z	-1.968	-1.968	0	%100
45	MP1A	X	0	0	0	%100
46	MP1A	Z	-3.563	-3.563	0	%100
47	MP2A	X	0	0	0	%100
48	MP2A	Z	-3.563	-3.563	0	%100
49	MP3A	X	0	0	0	%100
50	MP3A	Z	-3.563	-3.563	0	%100
51	MP4A	X	0	0	0	%100
52	MP4A	Z	-3.563	-3.563	0	%100
53	M45A	X	0	0	0	%100
54	M45A	Z	-3.009	-3.009	0	%100
55	M48	X	0	0	0	%100
56	M48	Z	-3.009	-3.009	0	%100
57	M49	X	0	0	0	%100
58	M49	Z	-.488	-.488	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.449	1.449	0	%100
2	M1	Z	-2.51	-2.51	0	%100
3	M2	X	1.449	1.449	0	%100
4	M2	Z	-2.51	-2.51	0	%100
5	M13	X	.202	.202	0	%100
6	M13	Z	-.351	-.351	0	%100
7	M14	X	.202	.202	0	%100
8	M14	Z	-.351	-.351	0	%100
9	M15	X	.202	.202	0	%100
10	M15	Z	-.351	-.351	0	%100
11	M16	X	.202	.202	0	%100
12	M16	Z	-.351	-.351	0	%100
13	M17	X	.18	.18	0	%100
14	M17	Z	-.312	-.312	0	%100
15	M18	X	.18	.18	0	%100
16	M18	Z	-.312	-.312	0	%100
17	M19	X	1.267	1.267	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,%]
18	M19	Z	-2.194	-2.194	0	%100
19	M20	X	1.267	1.267	0	%100
20	M20	Z	-2.194	-2.194	0	%100
21	M21	X	.607	.607	0	%100
22	M21	Z	-1.052	-1.052	0	%100
23	M22	X	.607	.607	0	%100
24	M22	Z	-1.052	-1.052	0	%100
25	M23	X	.607	.607	0	%100
26	M23	Z	-1.052	-1.052	0	%100
27	M24	X	.607	.607	0	%100
28	M24	Z	-1.052	-1.052	0	%100
29	M25	X	.744	.744	0	%100
30	M25	Z	-1.288	-1.288	0	%100
31	M26	X	.744	.744	0	%100
32	M26	Z	-1.288	-1.288	0	%100
33	M27	X	1.07	1.07	0	%100
34	M27	Z	-1.853	-1.853	0	%100
35	M28	X	1.07	1.07	0	%100
36	M28	Z	-1.853	-1.853	0	%100
37	M44	X	.984	.984	0	%100
38	M44	Z	-1.704	-1.704	0	%100
39	M45	X	.984	.984	0	%100
40	M45	Z	-1.704	-1.704	0	%100
41	M46	X	.984	.984	0	%100
42	M46	Z	-1.704	-1.704	0	%100
43	M47	X	.984	.984	0	%100
44	M47	Z	-1.704	-1.704	0	%100
45	MP1A	X	1.782	1.782	0	%100
46	MP1A	Z	-3.086	-3.086	0	%100
47	MP2A	X	1.782	1.782	0	%100
48	MP2A	Z	-3.086	-3.086	0	%100
49	MP3A	X	1.782	1.782	0	%100
50	MP3A	Z	-3.086	-3.086	0	%100
51	MP4A	X	1.782	1.782	0	%100
52	MP4A	Z	-3.086	-3.086	0	%100
53	M45A	X	1.504	1.504	0	%100
54	M45A	Z	-2.605	-2.605	0	%100
55	M48	X	1.504	1.504	0	%100
56	M48	Z	-2.605	-2.605	0	%100
57	M49	X	1.085	1.085	0	%100
58	M49	Z	-1.88	-1.88	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.837	.837	0	%100
2	M1	Z	-.483	-.483	0	%100
3	M2	X	.837	.837	0	%100
4	M2	Z	-.483	-.483	0	%100
5	M13	X	1.052	1.052	0	%100
6	M13	Z	-.607	-.607	0	%100
7	M14	X	1.052	1.052	0	%100
8	M14	Z	-.607	-.607	0	%100
9	M15	X	1.052	1.052	0	%100
10	M15	Z	-.607	-.607	0	%100
11	M16	X	1.052	1.052	0	%100
12	M16	Z	-.607	-.607	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,%]
13	M17	X	.044	.044	0	%100
14	M17	Z	-.025	-.025	0	%100
15	M18	X	.044	.044	0	%100
16	M18	Z	-.025	-.025	0	%100
17	M19	X	1.926	1.926	0	%100
18	M19	Z	-1.112	-1.112	0	%100
19	M20	X	1.926	1.926	0	%100
20	M20	Z	-1.112	-1.112	0	%100
21	M21	X	.351	.351	0	%100
22	M21	Z	-.202	-.202	0	%100
23	M22	X	.351	.351	0	%100
24	M22	Z	-.202	-.202	0	%100
25	M23	X	.351	.351	0	%100
26	M23	Z	-.202	-.202	0	%100
27	M24	X	.351	.351	0	%100
28	M24	Z	-.202	-.202	0	%100
29	M25	X	1.208	1.208	0	%100
30	M25	Z	-.697	-.697	0	%100
31	M26	X	1.208	1.208	0	%100
32	M26	Z	-.697	-.697	0	%100
33	M27	X	1.773	1.773	0	%100
34	M27	Z	-1.023	-1.023	0	%100
35	M28	X	1.773	1.773	0	%100
36	M28	Z	-1.023	-1.023	0	%100
37	M44	X	1.704	1.704	0	%100
38	M44	Z	-.984	-.984	0	%100
39	M45	X	1.704	1.704	0	%100
40	M45	Z	-.984	-.984	0	%100
41	M46	X	1.704	1.704	0	%100
42	M46	Z	-.984	-.984	0	%100
43	M47	X	1.704	1.704	0	%100
44	M47	Z	-.984	-.984	0	%100
45	MP1A	X	3.086	3.086	0	%100
46	MP1A	Z	-1.782	-1.782	0	%100
47	MP2A	X	3.086	3.086	0	%100
48	MP2A	Z	-1.782	-1.782	0	%100
49	MP3A	X	3.086	3.086	0	%100
50	MP3A	Z	-1.782	-1.782	0	%100
51	MP4A	X	3.086	3.086	0	%100
52	MP4A	Z	-1.782	-1.782	0	%100
53	M45A	X	2.605	2.605	0	%100
54	M45A	Z	-1.504	-1.504	0	%100
55	M48	X	2.605	2.605	0	%100
56	M48	Z	-1.504	-1.504	0	%100
57	M49	X	2.976	2.976	0	%100
58	M49	Z	-1.718	-1.718	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	1.62	1.62	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	1.62	1.62	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,%]
8	M14	Z	0	0	0	%100
9	M15	X	1.62	1.62	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	1.62	1.62	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	.982	.982	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	.982	.982	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	.982	.982	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	.982	.982	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	1.674	1.674	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	1.674	1.674	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	1.674	1.674	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	1.674	1.674	0	%100
36	M28	Z	0	0	0	%100
37	M44	X	1.968	1.968	0	%100
38	M44	Z	0	0	0	%100
39	M45	X	1.968	1.968	0	%100
40	M45	Z	0	0	0	%100
41	M46	X	1.968	1.968	0	%100
42	M46	Z	0	0	0	%100
43	M47	X	1.968	1.968	0	%100
44	M47	Z	0	0	0	%100
45	MP1A	X	3.563	3.563	0	%100
46	MP1A	Z	0	0	0	%100
47	MP2A	X	3.563	3.563	0	%100
48	MP2A	Z	0	0	0	%100
49	MP3A	X	3.563	3.563	0	%100
50	MP3A	Z	0	0	0	%100
51	MP4A	X	3.563	3.563	0	%100
52	MP4A	Z	0	0	0	%100
53	M45A	X	3.009	3.009	0	%100
54	M45A	Z	0	0	0	%100
55	M48	X	3.009	3.009	0	%100
56	M48	Z	0	0	0	%100
57	M49	X	3.018	3.018	0	%100
58	M49	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.837	.837	0	%100
2	M1	Z	.483	.483	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,%]
3	M2	X	.837	.837	0	%100
4	M2	Z	.483	.483	0	%100
5	M13	X	1.052	1.052	0	%100
6	M13	Z	.607	.607	0	%100
7	M14	X	1.052	1.052	0	%100
8	M14	Z	.607	.607	0	%100
9	M15	X	1.052	1.052	0	%100
10	M15	Z	.607	.607	0	%100
11	M16	X	1.052	1.052	0	%100
12	M16	Z	.607	.607	0	%100
13	M17	X	1.926	1.926	0	%100
14	M17	Z	1.112	1.112	0	%100
15	M18	X	1.926	1.926	0	%100
16	M18	Z	1.112	1.112	0	%100
17	M19	X	.044	.044	0	%100
18	M19	Z	.025	.025	0	%100
19	M20	X	.044	.044	0	%100
20	M20	Z	.025	.025	0	%100
21	M21	X	.351	.351	0	%100
22	M21	Z	.202	.202	0	%100
23	M22	X	.351	.351	0	%100
24	M22	Z	.202	.202	0	%100
25	M23	X	.351	.351	0	%100
26	M23	Z	.202	.202	0	%100
27	M24	X	.351	.351	0	%100
28	M24	Z	.202	.202	0	%100
29	M25	X	1.773	1.773	0	%100
30	M25	Z	1.023	1.023	0	%100
31	M26	X	1.773	1.773	0	%100
32	M26	Z	1.023	1.023	0	%100
33	M27	X	1.208	1.208	0	%100
34	M27	Z	.697	.697	0	%100
35	M28	X	1.208	1.208	0	%100
36	M28	Z	.697	.697	0	%100
37	M44	X	1.704	1.704	0	%100
38	M44	Z	.984	.984	0	%100
39	M45	X	1.704	1.704	0	%100
40	M45	Z	.984	.984	0	%100
41	M46	X	1.704	1.704	0	%100
42	M46	Z	.984	.984	0	%100
43	M47	X	1.704	1.704	0	%100
44	M47	Z	.984	.984	0	%100
45	MP1A	X	3.086	3.086	0	%100
46	MP1A	Z	1.782	1.782	0	%100
47	MP2A	X	3.086	3.086	0	%100
48	MP2A	Z	1.782	1.782	0	%100
49	MP3A	X	3.086	3.086	0	%100
50	MP3A	Z	1.782	1.782	0	%100
51	MP4A	X	3.086	3.086	0	%100
52	MP4A	Z	1.782	1.782	0	%100
53	M45A	X	2.605	2.605	0	%100
54	M45A	Z	1.504	1.504	0	%100
55	M48	X	2.605	2.605	0	%100
56	M48	Z	1.504	1.504	0	%100
57	M49	X	1.156	1.156	0	%100
58	M49	Z	.668	.668	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.449	1.449	0	%100
2	M1	Z	2.51	2.51	0	%100
3	M2	X	1.449	1.449	0	%100
4	M2	Z	2.51	2.51	0	%100
5	M13	X	.202	.202	0	%100
6	M13	Z	.351	.351	0	%100
7	M14	X	.202	.202	0	%100
8	M14	Z	.351	.351	0	%100
9	M15	X	.202	.202	0	%100
10	M15	Z	.351	.351	0	%100
11	M16	X	.202	.202	0	%100
12	M16	Z	.351	.351	0	%100
13	M17	X	1.267	1.267	0	%100
14	M17	Z	2.194	2.194	0	%100
15	M18	X	1.267	1.267	0	%100
16	M18	Z	2.194	2.194	0	%100
17	M19	X	.18	.18	0	%100
18	M19	Z	.312	.312	0	%100
19	M20	X	.18	.18	0	%100
20	M20	Z	.312	.312	0	%100
21	M21	X	.607	.607	0	%100
22	M21	Z	1.052	1.052	0	%100
23	M22	X	.607	.607	0	%100
24	M22	Z	1.052	1.052	0	%100
25	M23	X	.607	.607	0	%100
26	M23	Z	1.052	1.052	0	%100
27	M24	X	.607	.607	0	%100
28	M24	Z	1.052	1.052	0	%100
29	M25	X	1.07	1.07	0	%100
30	M25	Z	1.853	1.853	0	%100
31	M26	X	1.07	1.07	0	%100
32	M26	Z	1.853	1.853	0	%100
33	M27	X	.744	.744	0	%100
34	M27	Z	1.288	1.288	0	%100
35	M28	X	.744	.744	0	%100
36	M28	Z	1.288	1.288	0	%100
37	M44	X	.984	.984	0	%100
38	M44	Z	1.704	1.704	0	%100
39	M45	X	.984	.984	0	%100
40	M45	Z	1.704	1.704	0	%100
41	M46	X	.984	.984	0	%100
42	M46	Z	1.704	1.704	0	%100
43	M47	X	.984	.984	0	%100
44	M47	Z	1.704	1.704	0	%100
45	MP1A	X	1.782	1.782	0	%100
46	MP1A	Z	3.086	3.086	0	%100
47	MP2A	X	1.782	1.782	0	%100
48	MP2A	Z	3.086	3.086	0	%100
49	MP3A	X	1.782	1.782	0	%100
50	MP3A	Z	3.086	3.086	0	%100
51	MP4A	X	1.782	1.782	0	%100
52	MP4A	Z	3.086	3.086	0	%100
53	M45A	X	1.504	1.504	0	%100
54	M45A	Z	2.605	2.605	0	%100
55	M48	X	1.504	1.504	0	%100
56	M48	Z	2.605	2.605	0	%100
57	M49	X	.035	.035	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M49	Z	.06	.06	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	3.865	3.865	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	3.865	3.865	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	1.602	1.602	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	1.602	1.602	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	1.602	1.602	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	1.602	1.602	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	1.62	1.62	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	1.62	1.62	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	1.62	1.62	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	1.62	1.62	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	1.86	1.86	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	1.86	1.86	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	1.86	1.86	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	1.86	1.86	0	%100
37	M44	X	0	0	0	%100
38	M44	Z	1.968	1.968	0	%100
39	M45	X	0	0	0	%100
40	M45	Z	1.968	1.968	0	%100
41	M46	X	0	0	0	%100
42	M46	Z	1.968	1.968	0	%100
43	M47	X	0	0	0	%100
44	M47	Z	1.968	1.968	0	%100
45	MP1A	X	0	0	0	%100
46	MP1A	Z	3.563	3.563	0	%100
47	MP2A	X	0	0	0	%100
48	MP2A	Z	3.563	3.563	0	%100
49	MP3A	X	0	0	0	%100
50	MP3A	Z	3.563	3.563	0	%100
51	MP4A	X	0	0	0	%100
52	MP4A	Z	3.563	3.563	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,%]
53	M45A	X	0	0	0	%100
54	M45A	Z	3.009	3.009	0	%100
55	M48	X	0	0	0	%100
56	M48	Z	3.009	3.009	0	%100
57	M49	X	0	0	0	%100
58	M49	Z	.488	.488	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.449	-1.449	0	%100
2	M1	Z	2.51	2.51	0	%100
3	M2	X	-1.449	-1.449	0	%100
4	M2	Z	2.51	2.51	0	%100
5	M13	X	-.202	-.202	0	%100
6	M13	Z	.351	.351	0	%100
7	M14	X	-.202	-.202	0	%100
8	M14	Z	.351	.351	0	%100
9	M15	X	-.202	-.202	0	%100
10	M15	Z	.351	.351	0	%100
11	M16	X	-.202	-.202	0	%100
12	M16	Z	.351	.351	0	%100
13	M17	X	-.18	-.18	0	%100
14	M17	Z	.312	.312	0	%100
15	M18	X	-.18	-.18	0	%100
16	M18	Z	.312	.312	0	%100
17	M19	X	-1.267	-1.267	0	%100
18	M19	Z	2.194	2.194	0	%100
19	M20	X	-1.267	-1.267	0	%100
20	M20	Z	2.194	2.194	0	%100
21	M21	X	-.607	-.607	0	%100
22	M21	Z	1.052	1.052	0	%100
23	M22	X	-.607	-.607	0	%100
24	M22	Z	1.052	1.052	0	%100
25	M23	X	-.607	-.607	0	%100
26	M23	Z	1.052	1.052	0	%100
27	M24	X	-.607	-.607	0	%100
28	M24	Z	1.052	1.052	0	%100
29	M25	X	-.744	-.744	0	%100
30	M25	Z	1.288	1.288	0	%100
31	M26	X	-.744	-.744	0	%100
32	M26	Z	1.288	1.288	0	%100
33	M27	X	-1.07	-1.07	0	%100
34	M27	Z	1.853	1.853	0	%100
35	M28	X	-1.07	-1.07	0	%100
36	M28	Z	1.853	1.853	0	%100
37	M44	X	-.984	-.984	0	%100
38	M44	Z	1.704	1.704	0	%100
39	M45	X	-.984	-.984	0	%100
40	M45	Z	1.704	1.704	0	%100
41	M46	X	-.984	-.984	0	%100
42	M46	Z	1.704	1.704	0	%100
43	M47	X	-.984	-.984	0	%100
44	M47	Z	1.704	1.704	0	%100
45	MP1A	X	-1.782	-1.782	0	%100
46	MP1A	Z	3.086	3.086	0	%100
47	MP2A	X	-1.782	-1.782	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,%]
48	MP2A	Z	3.086	3.086	0	%100
49	MP3A	X	-1.782	-1.782	0	%100
50	MP3A	Z	3.086	3.086	0	%100
51	MP4A	X	-1.782	-1.782	0	%100
52	MP4A	Z	3.086	3.086	0	%100
53	M45A	X	-1.504	-1.504	0	%100
54	M45A	Z	2.605	2.605	0	%100
55	M48	X	-1.504	-1.504	0	%100
56	M48	Z	2.605	2.605	0	%100
57	M49	X	-1.085	-1.085	0	%100
58	M49	Z	1.88	1.88	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.837	-.837	0	%100
2	M1	Z	.483	.483	0	%100
3	M2	X	-.837	-.837	0	%100
4	M2	Z	.483	.483	0	%100
5	M13	X	-1.052	-1.052	0	%100
6	M13	Z	.607	.607	0	%100
7	M14	X	-1.052	-1.052	0	%100
8	M14	Z	.607	.607	0	%100
9	M15	X	-1.052	-1.052	0	%100
10	M15	Z	.607	.607	0	%100
11	M16	X	-1.052	-1.052	0	%100
12	M16	Z	.607	.607	0	%100
13	M17	X	-.044	-.044	0	%100
14	M17	Z	.025	.025	0	%100
15	M18	X	-.044	-.044	0	%100
16	M18	Z	.025	.025	0	%100
17	M19	X	-1.926	-1.926	0	%100
18	M19	Z	1.112	1.112	0	%100
19	M20	X	-1.926	-1.926	0	%100
20	M20	Z	1.112	1.112	0	%100
21	M21	X	-.351	-.351	0	%100
22	M21	Z	.202	.202	0	%100
23	M22	X	-.351	-.351	0	%100
24	M22	Z	.202	.202	0	%100
25	M23	X	-.351	-.351	0	%100
26	M23	Z	.202	.202	0	%100
27	M24	X	-.351	-.351	0	%100
28	M24	Z	.202	.202	0	%100
29	M25	X	-1.208	-1.208	0	%100
30	M25	Z	.697	.697	0	%100
31	M26	X	-1.208	-1.208	0	%100
32	M26	Z	.697	.697	0	%100
33	M27	X	-1.773	-1.773	0	%100
34	M27	Z	1.023	1.023	0	%100
35	M28	X	-1.773	-1.773	0	%100
36	M28	Z	1.023	1.023	0	%100
37	M44	X	-1.704	-1.704	0	%100
38	M44	Z	.984	.984	0	%100
39	M45	X	-1.704	-1.704	0	%100
40	M45	Z	.984	.984	0	%100
41	M46	X	-1.704	-1.704	0	%100
42	M46	Z	.984	.984	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,%]
43	M47	X	-1.704	-1.704	0	%100
44	M47	Z	.984	.984	0	%100
45	MP1A	X	-3.086	-3.086	0	%100
46	MP1A	Z	1.782	1.782	0	%100
47	MP2A	X	-3.086	-3.086	0	%100
48	MP2A	Z	1.782	1.782	0	%100
49	MP3A	X	-3.086	-3.086	0	%100
50	MP3A	Z	1.782	1.782	0	%100
51	MP4A	X	-3.086	-3.086	0	%100
52	MP4A	Z	1.782	1.782	0	%100
53	M45A	X	-2.605	-2.605	0	%100
54	M45A	Z	1.504	1.504	0	%100
55	M48	X	-2.605	-2.605	0	%100
56	M48	Z	1.504	1.504	0	%100
57	M49	X	-2.976	-2.976	0	%100
58	M49	Z	1.718	1.718	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	-1.62	-1.62	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	-1.62	-1.62	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	-1.62	-1.62	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	-1.62	-1.62	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	-.982	-.982	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	-.982	-.982	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	-.982	-.982	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	-.982	-.982	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	-1.674	-1.674	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	-1.674	-1.674	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	-1.674	-1.674	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	-1.674	-1.674	0	%100
36	M28	Z	0	0	0	%100
37	M44	X	-1.968	-1.968	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,%]
38	M44	Z	0	0	0	%100
39	M45	X	-1.968	-1.968	0	%100
40	M45	Z	0	0	0	%100
41	M46	X	-1.968	-1.968	0	%100
42	M46	Z	0	0	0	%100
43	M47	X	-1.968	-1.968	0	%100
44	M47	Z	0	0	0	%100
45	MP1A	X	-3.563	-3.563	0	%100
46	MP1A	Z	0	0	0	%100
47	MP2A	X	-3.563	-3.563	0	%100
48	MP2A	Z	0	0	0	%100
49	MP3A	X	-3.563	-3.563	0	%100
50	MP3A	Z	0	0	0	%100
51	MP4A	X	-3.563	-3.563	0	%100
52	MP4A	Z	0	0	0	%100
53	M45A	X	-3.009	-3.009	0	%100
54	M45A	Z	0	0	0	%100
55	M48	X	-3.009	-3.009	0	%100
56	M48	Z	0	0	0	%100
57	M49	X	-3.018	-3.018	0	%100
58	M49	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.837	-.837	0	%100
2	M1	Z	-.483	-.483	0	%100
3	M2	X	-.837	-.837	0	%100
4	M2	Z	-.483	-.483	0	%100
5	M13	X	-1.052	-1.052	0	%100
6	M13	Z	-.607	-.607	0	%100
7	M14	X	-1.052	-1.052	0	%100
8	M14	Z	-.607	-.607	0	%100
9	M15	X	-1.052	-1.052	0	%100
10	M15	Z	-.607	-.607	0	%100
11	M16	X	-1.052	-1.052	0	%100
12	M16	Z	-.607	-.607	0	%100
13	M17	X	-1.926	-1.926	0	%100
14	M17	Z	-1.112	-1.112	0	%100
15	M18	X	-1.926	-1.926	0	%100
16	M18	Z	-1.112	-1.112	0	%100
17	M19	X	-.044	-.044	0	%100
18	M19	Z	-.025	-.025	0	%100
19	M20	X	-.044	-.044	0	%100
20	M20	Z	-.025	-.025	0	%100
21	M21	X	-.351	-.351	0	%100
22	M21	Z	-.202	-.202	0	%100
23	M22	X	-.351	-.351	0	%100
24	M22	Z	-.202	-.202	0	%100
25	M23	X	-.351	-.351	0	%100
26	M23	Z	-.202	-.202	0	%100
27	M24	X	-.351	-.351	0	%100
28	M24	Z	-.202	-.202	0	%100
29	M25	X	-1.773	-1.773	0	%100
30	M25	Z	-1.023	-1.023	0	%100
31	M26	X	-1.773	-1.773	0	%100
32	M26	Z	-1.023	-1.023	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,%]
33	M27	X	-1.208	-1.208	0	%100
34	M27	Z	-.697	-.697	0	%100
35	M28	X	-1.208	-1.208	0	%100
36	M28	Z	-.697	-.697	0	%100
37	M44	X	-1.704	-1.704	0	%100
38	M44	Z	-.984	-.984	0	%100
39	M45	X	-1.704	-1.704	0	%100
40	M45	Z	-.984	-.984	0	%100
41	M46	X	-1.704	-1.704	0	%100
42	M46	Z	-.984	-.984	0	%100
43	M47	X	-1.704	-1.704	0	%100
44	M47	Z	-.984	-.984	0	%100
45	MP1A	X	-3.086	-3.086	0	%100
46	MP1A	Z	-1.782	-1.782	0	%100
47	MP2A	X	-3.086	-3.086	0	%100
48	MP2A	Z	-1.782	-1.782	0	%100
49	MP3A	X	-3.086	-3.086	0	%100
50	MP3A	Z	-1.782	-1.782	0	%100
51	MP4A	X	-3.086	-3.086	0	%100
52	MP4A	Z	-1.782	-1.782	0	%100
53	M45A	X	-2.605	-2.605	0	%100
54	M45A	Z	-1.504	-1.504	0	%100
55	M48	X	-2.605	-2.605	0	%100
56	M48	Z	-1.504	-1.504	0	%100
57	M49	X	-1.156	-1.156	0	%100
58	M49	Z	-.668	-.668	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.449	-1.449	0	%100
2	M1	Z	-2.51	-2.51	0	%100
3	M2	X	-1.449	-1.449	0	%100
4	M2	Z	-2.51	-2.51	0	%100
5	M13	X	-.202	-.202	0	%100
6	M13	Z	-.351	-.351	0	%100
7	M14	X	-.202	-.202	0	%100
8	M14	Z	-.351	-.351	0	%100
9	M15	X	-.202	-.202	0	%100
10	M15	Z	-.351	-.351	0	%100
11	M16	X	-.202	-.202	0	%100
12	M16	Z	-.351	-.351	0	%100
13	M17	X	-1.267	-1.267	0	%100
14	M17	Z	-2.194	-2.194	0	%100
15	M18	X	-1.267	-1.267	0	%100
16	M18	Z	-2.194	-2.194	0	%100
17	M19	X	-.18	-.18	0	%100
18	M19	Z	-.312	-.312	0	%100
19	M20	X	-.18	-.18	0	%100
20	M20	Z	-.312	-.312	0	%100
21	M21	X	-.607	-.607	0	%100
22	M21	Z	-1.052	-1.052	0	%100
23	M22	X	-.607	-.607	0	%100
24	M22	Z	-1.052	-1.052	0	%100
25	M23	X	-.607	-.607	0	%100
26	M23	Z	-1.052	-1.052	0	%100
27	M24	X	-.607	-.607	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,%]
28	M24	Z	-1.052	-1.052	0	%100
29	M25	X	-1.07	-1.07	0	%100
30	M25	Z	-1.853	-1.853	0	%100
31	M26	X	-1.07	-1.07	0	%100
32	M26	Z	-1.853	-1.853	0	%100
33	M27	X	-.744	-.744	0	%100
34	M27	Z	-1.288	-1.288	0	%100
35	M28	X	-.744	-.744	0	%100
36	M28	Z	-1.288	-1.288	0	%100
37	M44	X	-.984	-.984	0	%100
38	M44	Z	-1.704	-1.704	0	%100
39	M45	X	-.984	-.984	0	%100
40	M45	Z	-1.704	-1.704	0	%100
41	M46	X	-.984	-.984	0	%100
42	M46	Z	-1.704	-1.704	0	%100
43	M47	X	-.984	-.984	0	%100
44	M47	Z	-1.704	-1.704	0	%100
45	MP1A	X	-1.782	-1.782	0	%100
46	MP1A	Z	-3.086	-3.086	0	%100
47	MP2A	X	-1.782	-1.782	0	%100
48	MP2A	Z	-3.086	-3.086	0	%100
49	MP3A	X	-1.782	-1.782	0	%100
50	MP3A	Z	-3.086	-3.086	0	%100
51	MP4A	X	-1.782	-1.782	0	%100
52	MP4A	Z	-3.086	-3.086	0	%100
53	M45A	X	-1.504	-1.504	0	%100
54	M45A	Z	-2.605	-2.605	0	%100
55	M48	X	-1.504	-1.504	0	%100
56	M48	Z	-2.605	-2.605	0	%100
57	M49	X	-.035	-.035	0	%100
58	M49	Z	-.06	-.06	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-.625	-.625	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-.625	-.625	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	-.247	-.247	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	-.247	-.247	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	-.247	-.247	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	-.247	-.247	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	-.136	-.136	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,%]
23	M22	X	0	0	0	%100
24	M22	Z	-.136	-.136	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	-.136	-.136	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-.136	-.136	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-.141	-.141	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-.141	-.141	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-.141	-.141	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-.141	-.141	0	%100
37	M44	X	0	0	0	%100
38	M44	Z	-.136	-.136	0	%100
39	M45	X	0	0	0	%100
40	M45	Z	-.136	-.136	0	%100
41	M46	X	0	0	0	%100
42	M46	Z	-.136	-.136	0	%100
43	M47	X	0	0	0	%100
44	M47	Z	-.136	-.136	0	%100
45	MP1A	X	0	0	0	%100
46	MP1A	Z	-.516	-.516	0	%100
47	MP2A	X	0	0	0	%100
48	MP2A	Z	-.516	-.516	0	%100
49	MP3A	X	0	0	0	%100
50	MP3A	Z	-.516	-.516	0	%100
51	MP4A	X	0	0	0	%100
52	MP4A	Z	-.516	-.516	0	%100
53	M45A	X	0	0	0	%100
54	M45A	Z	-.474	-.474	0	%100
55	M48	X	0	0	0	%100
56	M48	Z	-.474	-.474	0	%100
57	M49	X	0	0	0	%100
58	M49	Z	-.072	-.072	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.234	.234	0	%100
2	M1	Z	-.406	-.406	0	%100
3	M2	X	.234	.234	0	%100
4	M2	Z	-.406	-.406	0	%100
5	M13	X	.017	.017	0	%100
6	M13	Z	-.029	-.029	0	%100
7	M14	X	.017	.017	0	%100
8	M14	Z	-.029	-.029	0	%100
9	M15	X	.017	.017	0	%100
10	M15	Z	-.029	-.029	0	%100
11	M16	X	.017	.017	0	%100
12	M16	Z	-.029	-.029	0	%100
13	M17	X	.028	.028	0	%100
14	M17	Z	-.048	-.048	0	%100
15	M18	X	.028	.028	0	%100
16	M18	Z	-.048	-.048	0	%100
17	M19	X	.195	.195	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,%]
18	M19	Z	-.338	-.338	0	%100
19	M20	X	.195	.195	0	%100
20	M20	Z	-.338	-.338	0	%100
21	M21	X	.051	.051	0	%100
22	M21	Z	-.088	-.088	0	%100
23	M22	X	.051	.051	0	%100
24	M22	Z	-.088	-.088	0	%100
25	M23	X	.051	.051	0	%100
26	M23	Z	-.088	-.088	0	%100
27	M24	X	.051	.051	0	%100
28	M24	Z	-.088	-.088	0	%100
29	M25	X	.056	.056	0	%100
30	M25	Z	-.097	-.097	0	%100
31	M26	X	.056	.056	0	%100
32	M26	Z	-.097	-.097	0	%100
33	M27	X	.081	.081	0	%100
34	M27	Z	-.14	-.14	0	%100
35	M28	X	.081	.081	0	%100
36	M28	Z	-.14	-.14	0	%100
37	M44	X	.068	.068	0	%100
38	M44	Z	-.118	-.118	0	%100
39	M45	X	.068	.068	0	%100
40	M45	Z	-.118	-.118	0	%100
41	M46	X	.068	.068	0	%100
42	M46	Z	-.118	-.118	0	%100
43	M47	X	.068	.068	0	%100
44	M47	Z	-.118	-.118	0	%100
45	MP1A	X	.258	.258	0	%100
46	MP1A	Z	-.447	-.447	0	%100
47	MP2A	X	.258	.258	0	%100
48	MP2A	Z	-.447	-.447	0	%100
49	MP3A	X	.258	.258	0	%100
50	MP3A	Z	-.447	-.447	0	%100
51	MP4A	X	.258	.258	0	%100
52	MP4A	Z	-.447	-.447	0	%100
53	M45A	X	.237	.237	0	%100
54	M45A	Z	-.411	-.411	0	%100
55	M48	X	.237	.237	0	%100
56	M48	Z	-.411	-.411	0	%100
57	M49	X	.16	.16	0	%100
58	M49	Z	-.277	-.277	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.135	.135	0	%100
2	M1	Z	-.078	-.078	0	%100
3	M2	X	.135	.135	0	%100
4	M2	Z	-.078	-.078	0	%100
5	M13	X	.088	.088	0	%100
6	M13	Z	-.051	-.051	0	%100
7	M14	X	.088	.088	0	%100
8	M14	Z	-.051	-.051	0	%100
9	M15	X	.088	.088	0	%100
10	M15	Z	-.051	-.051	0	%100
11	M16	X	.088	.088	0	%100
12	M16	Z	-.051	-.051	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,%]
13	M17	X	.007	.007	0	%100
14	M17	Z	-.004	-.004	0	%100
15	M18	X	.007	.007	0	%100
16	M18	Z	-.004	-.004	0	%100
17	M19	X	.296	.296	0	%100
18	M19	Z	-.171	-.171	0	%100
19	M20	X	.296	.296	0	%100
20	M20	Z	-.171	-.171	0	%100
21	M21	X	.029	.029	0	%100
22	M21	Z	-.017	-.017	0	%100
23	M22	X	.029	.029	0	%100
24	M22	Z	-.017	-.017	0	%100
25	M23	X	.029	.029	0	%100
26	M23	Z	-.017	-.017	0	%100
27	M24	X	.029	.029	0	%100
28	M24	Z	-.017	-.017	0	%100
29	M25	X	.091	.091	0	%100
30	M25	Z	-.053	-.053	0	%100
31	M26	X	.091	.091	0	%100
32	M26	Z	-.053	-.053	0	%100
33	M27	X	.134	.134	0	%100
34	M27	Z	-.077	-.077	0	%100
35	M28	X	.134	.134	0	%100
36	M28	Z	-.077	-.077	0	%100
37	M44	X	.118	.118	0	%100
38	M44	Z	-.068	-.068	0	%100
39	M45	X	.118	.118	0	%100
40	M45	Z	-.068	-.068	0	%100
41	M46	X	.118	.118	0	%100
42	M46	Z	-.068	-.068	0	%100
43	M47	X	.118	.118	0	%100
44	M47	Z	-.068	-.068	0	%100
45	MP1A	X	.447	.447	0	%100
46	MP1A	Z	-.258	-.258	0	%100
47	MP2A	X	.447	.447	0	%100
48	MP2A	Z	-.258	-.258	0	%100
49	MP3A	X	.447	.447	0	%100
50	MP3A	Z	-.258	-.258	0	%100
51	MP4A	X	.447	.447	0	%100
52	MP4A	Z	-.258	-.258	0	%100
53	M45A	X	.411	.411	0	%100
54	M45A	Z	-.237	-.237	0	%100
55	M48	X	.411	.411	0	%100
56	M48	Z	-.237	-.237	0	%100
57	M49	X	.438	.438	0	%100
58	M49	Z	-.253	-.253	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	.136	.136	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	.136	.136	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,%]
8	M14	Z	0	0	0	%100
9	M15	X	.136	.136	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	.136	.136	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	.151	.151	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	.151	.151	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	.151	.151	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	.151	.151	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	.127	.127	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	.127	.127	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	.127	.127	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	.127	.127	0	%100
36	M28	Z	0	0	0	%100
37	M44	X	.136	.136	0	%100
38	M44	Z	0	0	0	%100
39	M45	X	.136	.136	0	%100
40	M45	Z	0	0	0	%100
41	M46	X	.136	.136	0	%100
42	M46	Z	0	0	0	%100
43	M47	X	.136	.136	0	%100
44	M47	Z	0	0	0	%100
45	MP1A	X	.516	.516	0	%100
46	MP1A	Z	0	0	0	%100
47	MP2A	X	.516	.516	0	%100
48	MP2A	Z	0	0	0	%100
49	MP3A	X	.516	.516	0	%100
50	MP3A	Z	0	0	0	%100
51	MP4A	X	.516	.516	0	%100
52	MP4A	Z	0	0	0	%100
53	M45A	X	.474	.474	0	%100
54	M45A	Z	0	0	0	%100
55	M48	X	.474	.474	0	%100
56	M48	Z	0	0	0	%100
57	M49	X	.444	.444	0	%100
58	M49	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.135	.135	0	%100
2	M1	Z	.078	.078	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,%]
3	M2	X	.135	.135	0	%100
4	M2	Z	.078	.078	0	%100
5	M13	X	.088	.088	0	%100
6	M13	Z	.051	.051	0	%100
7	M14	X	.088	.088	0	%100
8	M14	Z	.051	.051	0	%100
9	M15	X	.088	.088	0	%100
10	M15	Z	.051	.051	0	%100
11	M16	X	.088	.088	0	%100
12	M16	Z	.051	.051	0	%100
13	M17	X	.296	.296	0	%100
14	M17	Z	.171	.171	0	%100
15	M18	X	.296	.296	0	%100
16	M18	Z	.171	.171	0	%100
17	M19	X	.007	.007	0	%100
18	M19	Z	.004	.004	0	%100
19	M20	X	.007	.007	0	%100
20	M20	Z	.004	.004	0	%100
21	M21	X	.029	.029	0	%100
22	M21	Z	.017	.017	0	%100
23	M22	X	.029	.029	0	%100
24	M22	Z	.017	.017	0	%100
25	M23	X	.029	.029	0	%100
26	M23	Z	.017	.017	0	%100
27	M24	X	.029	.029	0	%100
28	M24	Z	.017	.017	0	%100
29	M25	X	.134	.134	0	%100
30	M25	Z	.077	.077	0	%100
31	M26	X	.134	.134	0	%100
32	M26	Z	.077	.077	0	%100
33	M27	X	.091	.091	0	%100
34	M27	Z	.053	.053	0	%100
35	M28	X	.091	.091	0	%100
36	M28	Z	.053	.053	0	%100
37	M44	X	.118	.118	0	%100
38	M44	Z	.068	.068	0	%100
39	M45	X	.118	.118	0	%100
40	M45	Z	.068	.068	0	%100
41	M46	X	.118	.118	0	%100
42	M46	Z	.068	.068	0	%100
43	M47	X	.118	.118	0	%100
44	M47	Z	.068	.068	0	%100
45	MP1A	X	.447	.447	0	%100
46	MP1A	Z	.258	.258	0	%100
47	MP2A	X	.447	.447	0	%100
48	MP2A	Z	.258	.258	0	%100
49	MP3A	X	.447	.447	0	%100
50	MP3A	Z	.258	.258	0	%100
51	MP4A	X	.447	.447	0	%100
52	MP4A	Z	.258	.258	0	%100
53	M45A	X	.411	.411	0	%100
54	M45A	Z	.237	.237	0	%100
55	M48	X	.411	.411	0	%100
56	M48	Z	.237	.237	0	%100
57	M49	X	.17	.17	0	%100
58	M49	Z	.098	.098	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.234	.234	0	%100
2	M1	Z	.406	.406	0	%100
3	M2	X	.234	.234	0	%100
4	M2	Z	.406	.406	0	%100
5	M13	X	.017	.017	0	%100
6	M13	Z	.029	.029	0	%100
7	M14	X	.017	.017	0	%100
8	M14	Z	.029	.029	0	%100
9	M15	X	.017	.017	0	%100
10	M15	Z	.029	.029	0	%100
11	M16	X	.017	.017	0	%100
12	M16	Z	.029	.029	0	%100
13	M17	X	.195	.195	0	%100
14	M17	Z	.338	.338	0	%100
15	M18	X	.195	.195	0	%100
16	M18	Z	.338	.338	0	%100
17	M19	X	.028	.028	0	%100
18	M19	Z	.048	.048	0	%100
19	M20	X	.028	.028	0	%100
20	M20	Z	.048	.048	0	%100
21	M21	X	.051	.051	0	%100
22	M21	Z	.088	.088	0	%100
23	M22	X	.051	.051	0	%100
24	M22	Z	.088	.088	0	%100
25	M23	X	.051	.051	0	%100
26	M23	Z	.088	.088	0	%100
27	M24	X	.051	.051	0	%100
28	M24	Z	.088	.088	0	%100
29	M25	X	.081	.081	0	%100
30	M25	Z	.14	.14	0	%100
31	M26	X	.081	.081	0	%100
32	M26	Z	.14	.14	0	%100
33	M27	X	.056	.056	0	%100
34	M27	Z	.097	.097	0	%100
35	M28	X	.056	.056	0	%100
36	M28	Z	.097	.097	0	%100
37	M44	X	.068	.068	0	%100
38	M44	Z	.118	.118	0	%100
39	M45	X	.068	.068	0	%100
40	M45	Z	.118	.118	0	%100
41	M46	X	.068	.068	0	%100
42	M46	Z	.118	.118	0	%100
43	M47	X	.068	.068	0	%100
44	M47	Z	.118	.118	0	%100
45	MP1A	X	.258	.258	0	%100
46	MP1A	Z	.447	.447	0	%100
47	MP2A	X	.258	.258	0	%100
48	MP2A	Z	.447	.447	0	%100
49	MP3A	X	.258	.258	0	%100
50	MP3A	Z	.447	.447	0	%100
51	MP4A	X	.258	.258	0	%100
52	MP4A	Z	.447	.447	0	%100
53	M45A	X	.237	.237	0	%100
54	M45A	Z	.411	.411	0	%100
55	M48	X	.237	.237	0	%100
56	M48	Z	.411	.411	0	%100
57	M49	X	.005	.005	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M49	Z	.009	.009	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	.625	.625	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	.625	.625	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	.247	.247	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	.247	.247	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	.247	.247	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	.247	.247	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	.136	.136	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	.136	.136	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	.136	.136	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	.136	.136	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	.141	.141	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	.141	.141	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	.141	.141	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	.141	.141	0	%100
37	M44	X	0	0	0	%100
38	M44	Z	.136	.136	0	%100
39	M45	X	0	0	0	%100
40	M45	Z	.136	.136	0	%100
41	M46	X	0	0	0	%100
42	M46	Z	.136	.136	0	%100
43	M47	X	0	0	0	%100
44	M47	Z	.136	.136	0	%100
45	MP1A	X	0	0	0	%100
46	MP1A	Z	.516	.516	0	%100
47	MP2A	X	0	0	0	%100
48	MP2A	Z	.516	.516	0	%100
49	MP3A	X	0	0	0	%100
50	MP3A	Z	.516	.516	0	%100
51	MP4A	X	0	0	0	%100
52	MP4A	Z	.516	.516	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,%]
53	M45A	X	0	0	0	%100
54	M45A	Z	.474	.474	0	%100
55	M48	X	0	0	0	%100
56	M48	Z	.474	.474	0	%100
57	M49	X	0	0	0	%100
58	M49	Z	.072	.072	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.234	-.234	0	%100
2	M1	Z	.406	.406	0	%100
3	M2	X	-.234	-.234	0	%100
4	M2	Z	.406	.406	0	%100
5	M13	X	-.017	-.017	0	%100
6	M13	Z	.029	.029	0	%100
7	M14	X	-.017	-.017	0	%100
8	M14	Z	.029	.029	0	%100
9	M15	X	-.017	-.017	0	%100
10	M15	Z	.029	.029	0	%100
11	M16	X	-.017	-.017	0	%100
12	M16	Z	.029	.029	0	%100
13	M17	X	-.028	-.028	0	%100
14	M17	Z	.048	.048	0	%100
15	M18	X	-.028	-.028	0	%100
16	M18	Z	.048	.048	0	%100
17	M19	X	-.195	-.195	0	%100
18	M19	Z	.338	.338	0	%100
19	M20	X	-.195	-.195	0	%100
20	M20	Z	.338	.338	0	%100
21	M21	X	-.051	-.051	0	%100
22	M21	Z	.088	.088	0	%100
23	M22	X	-.051	-.051	0	%100
24	M22	Z	.088	.088	0	%100
25	M23	X	-.051	-.051	0	%100
26	M23	Z	.088	.088	0	%100
27	M24	X	-.051	-.051	0	%100
28	M24	Z	.088	.088	0	%100
29	M25	X	-.056	-.056	0	%100
30	M25	Z	.097	.097	0	%100
31	M26	X	-.056	-.056	0	%100
32	M26	Z	.097	.097	0	%100
33	M27	X	-.081	-.081	0	%100
34	M27	Z	.14	.14	0	%100
35	M28	X	-.081	-.081	0	%100
36	M28	Z	.14	.14	0	%100
37	M44	X	-.068	-.068	0	%100
38	M44	Z	.118	.118	0	%100
39	M45	X	-.068	-.068	0	%100
40	M45	Z	.118	.118	0	%100
41	M46	X	-.068	-.068	0	%100
42	M46	Z	.118	.118	0	%100
43	M47	X	-.068	-.068	0	%100
44	M47	Z	.118	.118	0	%100
45	MP1A	X	-.258	-.258	0	%100
46	MP1A	Z	.447	.447	0	%100
47	MP2A	X	-.258	-.258	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,%]
48	MP2A	Z	.447	.447	0	%100
49	MP3A	X	-.258	-.258	0	%100
50	MP3A	Z	.447	.447	0	%100
51	MP4A	X	-.258	-.258	0	%100
52	MP4A	Z	.447	.447	0	%100
53	M45A	X	-.237	-.237	0	%100
54	M45A	Z	.411	.411	0	%100
55	M48	X	-.237	-.237	0	%100
56	M48	Z	.411	.411	0	%100
57	M49	X	-.16	-.16	0	%100
58	M49	Z	.277	.277	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.135	-.135	0	%100
2	M1	Z	.078	.078	0	%100
3	M2	X	-.135	-.135	0	%100
4	M2	Z	.078	.078	0	%100
5	M13	X	-.088	-.088	0	%100
6	M13	Z	.051	.051	0	%100
7	M14	X	-.088	-.088	0	%100
8	M14	Z	.051	.051	0	%100
9	M15	X	-.088	-.088	0	%100
10	M15	Z	.051	.051	0	%100
11	M16	X	-.088	-.088	0	%100
12	M16	Z	.051	.051	0	%100
13	M17	X	-.007	-.007	0	%100
14	M17	Z	.004	.004	0	%100
15	M18	X	-.007	-.007	0	%100
16	M18	Z	.004	.004	0	%100
17	M19	X	-.296	-.296	0	%100
18	M19	Z	.171	.171	0	%100
19	M20	X	-.296	-.296	0	%100
20	M20	Z	.171	.171	0	%100
21	M21	X	-.029	-.029	0	%100
22	M21	Z	.017	.017	0	%100
23	M22	X	-.029	-.029	0	%100
24	M22	Z	.017	.017	0	%100
25	M23	X	-.029	-.029	0	%100
26	M23	Z	.017	.017	0	%100
27	M24	X	-.029	-.029	0	%100
28	M24	Z	.017	.017	0	%100
29	M25	X	-.091	-.091	0	%100
30	M25	Z	.053	.053	0	%100
31	M26	X	-.091	-.091	0	%100
32	M26	Z	.053	.053	0	%100
33	M27	X	-.134	-.134	0	%100
34	M27	Z	.077	.077	0	%100
35	M28	X	-.134	-.134	0	%100
36	M28	Z	.077	.077	0	%100
37	M44	X	-.118	-.118	0	%100
38	M44	Z	.068	.068	0	%100
39	M45	X	-.118	-.118	0	%100
40	M45	Z	.068	.068	0	%100
41	M46	X	-.118	-.118	0	%100
42	M46	Z	.068	.068	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,%]
43	M47	X	-.118	-.118	0	%100
44	M47	Z	.068	.068	0	%100
45	MP1A	X	-.447	-.447	0	%100
46	MP1A	Z	.258	.258	0	%100
47	MP2A	X	-.447	-.447	0	%100
48	MP2A	Z	.258	.258	0	%100
49	MP3A	X	-.447	-.447	0	%100
50	MP3A	Z	.258	.258	0	%100
51	MP4A	X	-.447	-.447	0	%100
52	MP4A	Z	.258	.258	0	%100
53	M45A	X	-.411	-.411	0	%100
54	M45A	Z	.237	.237	0	%100
55	M48	X	-.411	-.411	0	%100
56	M48	Z	.237	.237	0	%100
57	M49	X	-.438	-.438	0	%100
58	M49	Z	.253	.253	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	-.136	-.136	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	-.136	-.136	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	-.136	-.136	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	-.136	-.136	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	-.151	-.151	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	-.151	-.151	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	-.151	-.151	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	-.151	-.151	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	-.127	-.127	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	-.127	-.127	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	-.127	-.127	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	-.127	-.127	0	%100
36	M28	Z	0	0	0	%100
37	M44	X	-.136	-.136	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,%]
38	M44	Z	0	0	0	%100
39	M45	X	-.136	-.136	0	%100
40	M45	Z	0	0	0	%100
41	M46	X	-.136	-.136	0	%100
42	M46	Z	0	0	0	%100
43	M47	X	-.136	-.136	0	%100
44	M47	Z	0	0	0	%100
45	MP1A	X	-.516	-.516	0	%100
46	MP1A	Z	0	0	0	%100
47	MP2A	X	-.516	-.516	0	%100
48	MP2A	Z	0	0	0	%100
49	MP3A	X	-.516	-.516	0	%100
50	MP3A	Z	0	0	0	%100
51	MP4A	X	-.516	-.516	0	%100
52	MP4A	Z	0	0	0	%100
53	M45A	X	-.474	-.474	0	%100
54	M45A	Z	0	0	0	%100
55	M48	X	-.474	-.474	0	%100
56	M48	Z	0	0	0	%100
57	M49	X	-.444	-.444	0	%100
58	M49	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.135	-.135	0	%100
2	M1	Z	-.078	-.078	0	%100
3	M2	X	-.135	-.135	0	%100
4	M2	Z	-.078	-.078	0	%100
5	M13	X	-.088	-.088	0	%100
6	M13	Z	-.051	-.051	0	%100
7	M14	X	-.088	-.088	0	%100
8	M14	Z	-.051	-.051	0	%100
9	M15	X	-.088	-.088	0	%100
10	M15	Z	-.051	-.051	0	%100
11	M16	X	-.088	-.088	0	%100
12	M16	Z	-.051	-.051	0	%100
13	M17	X	-.296	-.296	0	%100
14	M17	Z	-.171	-.171	0	%100
15	M18	X	-.296	-.296	0	%100
16	M18	Z	-.171	-.171	0	%100
17	M19	X	-.007	-.007	0	%100
18	M19	Z	-.004	-.004	0	%100
19	M20	X	-.007	-.007	0	%100
20	M20	Z	-.004	-.004	0	%100
21	M21	X	-.029	-.029	0	%100
22	M21	Z	-.017	-.017	0	%100
23	M22	X	-.029	-.029	0	%100
24	M22	Z	-.017	-.017	0	%100
25	M23	X	-.029	-.029	0	%100
26	M23	Z	-.017	-.017	0	%100
27	M24	X	-.029	-.029	0	%100
28	M24	Z	-.017	-.017	0	%100
29	M25	X	-.134	-.134	0	%100
30	M25	Z	-.077	-.077	0	%100
31	M26	X	-.134	-.134	0	%100
32	M26	Z	-.077	-.077	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,%]
33	M27	X	-.091	-.091	0	%100
34	M27	Z	-.053	-.053	0	%100
35	M28	X	-.091	-.091	0	%100
36	M28	Z	-.053	-.053	0	%100
37	M44	X	-.118	-.118	0	%100
38	M44	Z	-.068	-.068	0	%100
39	M45	X	-.118	-.118	0	%100
40	M45	Z	-.068	-.068	0	%100
41	M46	X	-.118	-.118	0	%100
42	M46	Z	-.068	-.068	0	%100
43	M47	X	-.118	-.118	0	%100
44	M47	Z	-.068	-.068	0	%100
45	MP1A	X	-.447	-.447	0	%100
46	MP1A	Z	-.258	-.258	0	%100
47	MP2A	X	-.447	-.447	0	%100
48	MP2A	Z	-.258	-.258	0	%100
49	MP3A	X	-.447	-.447	0	%100
50	MP3A	Z	-.258	-.258	0	%100
51	MP4A	X	-.447	-.447	0	%100
52	MP4A	Z	-.258	-.258	0	%100
53	M45A	X	-.411	-.411	0	%100
54	M45A	Z	-.237	-.237	0	%100
55	M48	X	-.411	-.411	0	%100
56	M48	Z	-.237	-.237	0	%100
57	M49	X	-.17	-.17	0	%100
58	M49	Z	-.098	-.098	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.234	-.234	0	%100
2	M1	Z	-.406	-.406	0	%100
3	M2	X	-.234	-.234	0	%100
4	M2	Z	-.406	-.406	0	%100
5	M13	X	-.017	-.017	0	%100
6	M13	Z	-.029	-.029	0	%100
7	M14	X	-.017	-.017	0	%100
8	M14	Z	-.029	-.029	0	%100
9	M15	X	-.017	-.017	0	%100
10	M15	Z	-.029	-.029	0	%100
11	M16	X	-.017	-.017	0	%100
12	M16	Z	-.029	-.029	0	%100
13	M17	X	-.195	-.195	0	%100
14	M17	Z	-.338	-.338	0	%100
15	M18	X	-.195	-.195	0	%100
16	M18	Z	-.338	-.338	0	%100
17	M19	X	-.028	-.028	0	%100
18	M19	Z	-.048	-.048	0	%100
19	M20	X	-.028	-.028	0	%100
20	M20	Z	-.048	-.048	0	%100
21	M21	X	-.051	-.051	0	%100
22	M21	Z	-.088	-.088	0	%100
23	M22	X	-.051	-.051	0	%100
24	M22	Z	-.088	-.088	0	%100
25	M23	X	-.051	-.051	0	%100
26	M23	Z	-.088	-.088	0	%100
27	M24	X	-.051	-.051	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,%]
28	M24	Z	-.088	-.088	0	%100
29	M25	X	-.081	-.081	0	%100
30	M25	Z	-.14	-.14	0	%100
31	M26	X	-.081	-.081	0	%100
32	M26	Z	-.14	-.14	0	%100
33	M27	X	-.056	-.056	0	%100
34	M27	Z	-.097	-.097	0	%100
35	M28	X	-.056	-.056	0	%100
36	M28	Z	-.097	-.097	0	%100
37	M44	X	-.068	-.068	0	%100
38	M44	Z	-.118	-.118	0	%100
39	M45	X	-.068	-.068	0	%100
40	M45	Z	-.118	-.118	0	%100
41	M46	X	-.068	-.068	0	%100
42	M46	Z	-.118	-.118	0	%100
43	M47	X	-.068	-.068	0	%100
44	M47	Z	-.118	-.118	0	%100
45	MP1A	X	-.258	-.258	0	%100
46	MP1A	Z	-.447	-.447	0	%100
47	MP2A	X	-.258	-.258	0	%100
48	MP2A	Z	-.447	-.447	0	%100
49	MP3A	X	-.258	-.258	0	%100
50	MP3A	Z	-.447	-.447	0	%100
51	MP4A	X	-.258	-.258	0	%100
52	MP4A	Z	-.447	-.447	0	%100
53	M45A	X	-.237	-.237	0	%100
54	M45A	Z	-.411	-.411	0	%100
55	M48	X	-.237	-.237	0	%100
56	M48	Z	-.411	-.411	0	%100
57	M49	X	-.005	-.005	0	%100
58	M49	Z	-.009	-.009	0	%100

Member Area Loads

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

Envelope Joint Reactions

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N35	max	617.428	49	1367.183	16	1925.224	13	-.383	9	0	51	.157	49
2		min	-596.315	4	425.648	9	-273.843	7	-1.388	15	0	1	-.121	40
3	N36	max	1429.096	10	1556.538	22	1170.2	11	-.356	5	0	51	.154	49
4		min	-1463.435	4	411.677	3	-2173.018	17	-1.531	23	0	1	-.122	40
5	N71A	max	557.001	4	46.069	22	1418.377	4	0	51	0	51	0	51
6		min	-541.624	10	14.333	6	-1427.403	10	0	1	0	1	0	1
7	Totals:	max	1502.749	10	2934.21	16	1657.207	1						
8		min	-1502.749	4	936.067	10	-1657.21	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	M1	PIPE_2.5	.270	8.724	11	.136	8.854		10	14558.792	50715	3.596	3.596	2...	H1-1b
2	M2	PIPE_2.5	.560	8.724	4	.189	8.854		10	14558.792	50715	3.596	3.596	3...	H1-1b
3	M13	PL5/8X4	.149	.422	19	.083	.422	y	8	77711.328	81000	1.055	6.75	1...	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
4	M14	PL5/8X4	.142	0	40	.087	.422	y	2	77711.328	81000	1.055	6.75	1....	H1-1b
5	M15	PL5/8X4	.161	.422	16	.094	.422	y	12	77711.328	81000	1.055	6.75	1....	H1-1b
6	M16	PL5/8X4	.234	.422	4	.315	.422	y	4	77711.328	81000	1.055	6.75	1....	H1-1b
7	M17	PIPE_2.0	.103	0	8	.075	0		14	31128.25	32130	1.872	1.872	2....	H1-1b
8	M18	PIPE_2.0	.115	2.501	3	.081	0		14	31128.25	32130	1.872	1.872	1....	H1-1b
9	M19	PIPE_2.0	.113	2.501	11	.102	0		14	31128.25	32130	1.872	1.872	1....	H1-1b
10	M20	PIPE_2.0	.377	0	4	.090	0		10	31128.25	32130	1.872	1.872	2....	H1-1b
11	M21	PL5/8X4	.284	.531	19	.060	.531	y	19	79411.08	81000	1.055	6.75	1....	H1-1b
12	M22	PL5/8X4	.416	.531	17	.125	.531	y	5	79411.08	81000	1.055	6.75	1....	H1-1b
13	M23	PL5/8X4	.304	.531	15	.035	.531	y	2	79411.08	81000	1.055	6.75	1....	H1-1b
14	M24	PL5/8X4	.339	.531	23	.061	.437	y	14	79411.08	81000	1.055	6.75	1....	H1-1b
15	M25	SR_0.75	.000	0	51	.012	0		4	1403.329	14313.866	.179	.179	1....	H1-1a
16	M26	SR_0.75	.058	0	18	.009	4.167		14	1403.329	14313.866	.179	.179	1....	H1-1b*
17	M27	SR_0.75	.000	0	51	.011	0		10	1403.329	14313.866	.179	.179	1....	H1-1a
18	M28	SR_0.75	.136	4.167	20	.013	4.167		13	1403.329	14313.866	.179	.179	1....	H1-1b*
19	M44	SR_0.625	.040	1.632	11	.008	0		4	1057.552	9940.19	.104	.104	1....	H1-1b
20	M45	SR_0.625	.046	1.632	8	.015	0		49	1057.552	9940.19	.104	.104	1....	H1-1b
21	M46	SR_0.625	.593	1.319	19	.013	0		49	1057.552	9940.19	.104	.104	1	H1-1a
22	M47	SR_0.625	.692	1.319	13	.005	0		39	1057.552	9940.19	.104	.104	1	H1-1a
23	MP1A	PIPE_2.0	.213	5.615	49	.112	2.382		4	14441.918	32130	1.872	1.872	4....	H1-1b
24	MP2A	PIPE_2.0	.217	2.382	16	.116	2.382		4	14441.918	32130	1.872	1.872	4....	H1-1b
25	MP3A	PIPE_2.0	.124	2.382	4	.030	5.615		3	14441.918	32130	1.872	1.872	3....	H1-1b
26	MP4A	PIPE_2.0	.172	2.382	22	.058	5.7		10	14441.918	32130	1.872	1.872	4....	H1-1b
27	M45A	PIPE_2.0	.032	1.999	10	.028	.383		10	26308.086	32130	1.872	1.872	1....	H1-1b
28	M48	PIPE_2.0	.032	1.999	10	.059	.383		4	26308.086	32130	1.872	1.872	1....	H1-1b
29	M49	PIPE_2.0	.085	6.927	4	.005	6.927		21	18073.008	32130	1.872	1.872	1....	H1-1b*

MASER CONSULTING — CONNECTICUT —

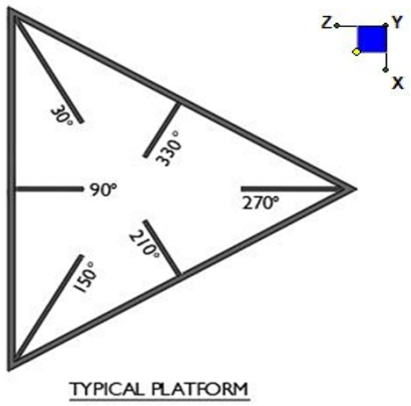
Client:	Verizon	Date:	5/3/2021
Site Name:	East Hartland CT		
Project No.	21777230A		
Title:	Mount Analysis	Page:	1

Version 3.1

I. Mount-to-Tower Connection Check

RISA Model Data

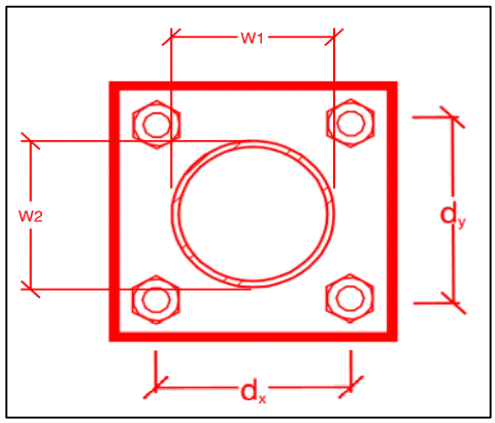
Nodes *(labeled per RISA)*	Orientation *(per graphic of typical platform)*
N36	90
N35	90



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)* :	9
d_y (in) *(Delta Y of typ. bolt config. sketch)* :	3.5
Bolt Type:	A307
Bolt Diameter (in):	0.5
Required Tensile Strength (kips):	12.3
Required Shear Strength (kips):	1.9
Tensile Strength / bolt (kips):	6.4
Shear Strength / bolt (kips):	3.8
Tensile Capacity Overall:	**47.8%***
Shear Capacity Overall:	**12.1%**



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

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Passing Mount Analysis

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

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

Base Requirements:

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

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: 467801-VZW - EAST HARTLAND CT

Sector: **A**

Structure Type: Self Support

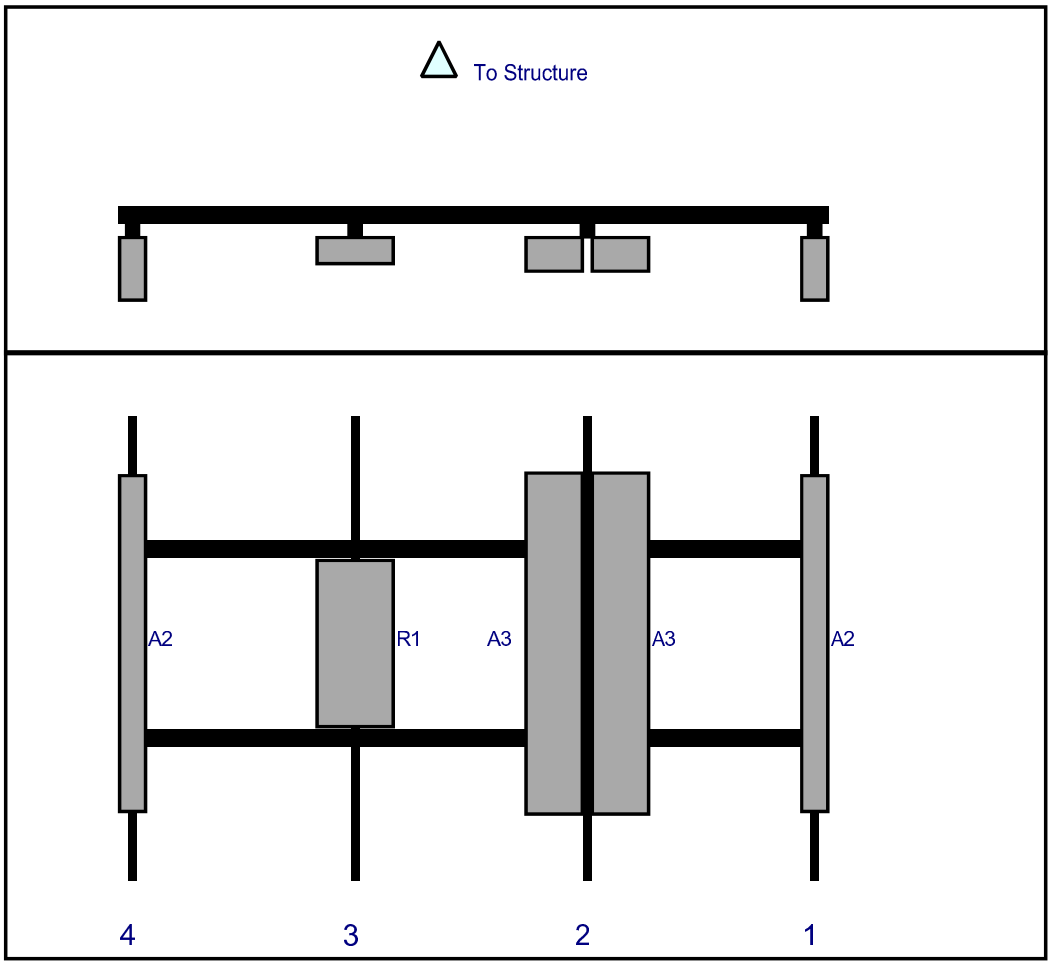
Mount Elev: 168.00

5/3/2021

MASER CONSULTING — CONNECTICUT —

Plan View

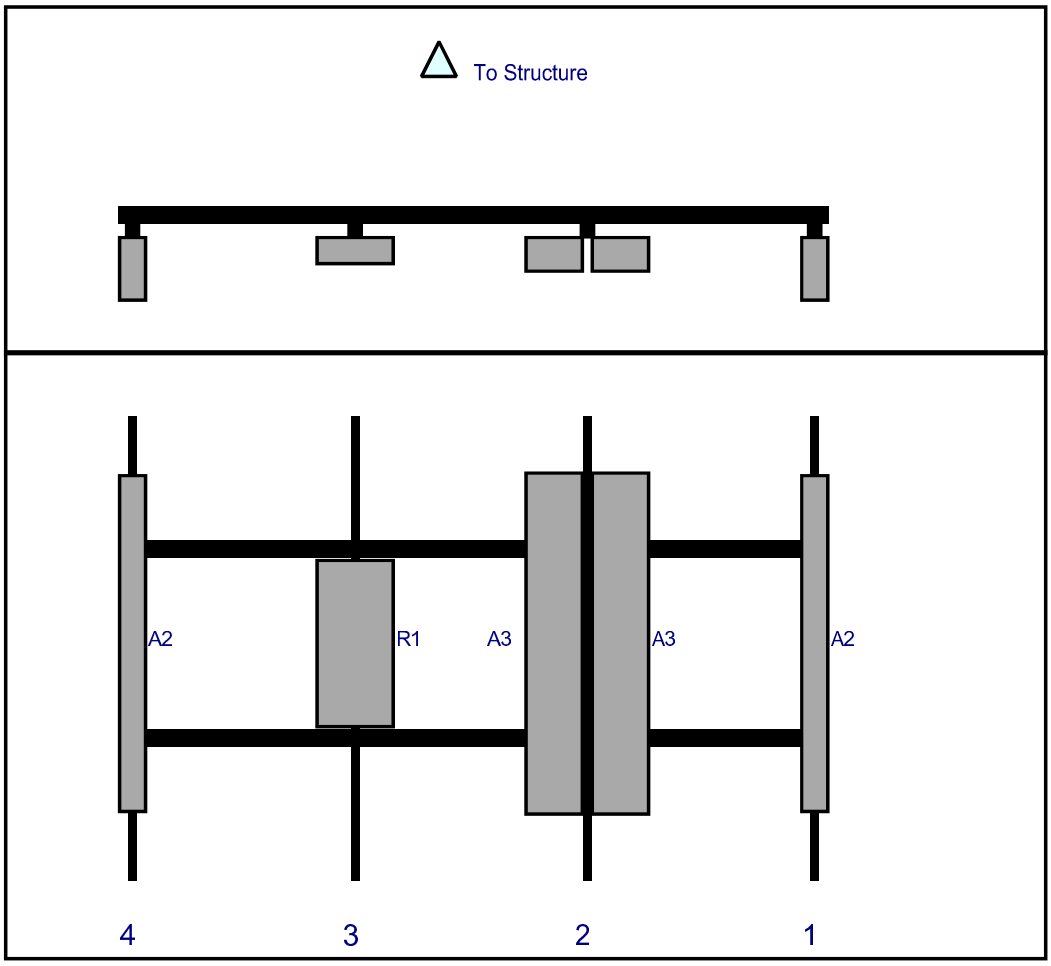
Front View
Looking at Structure



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
A2	LPA-80080/6CF	70.9	5.5	147	1	a	Front	48	0	Retained	03/30/2021
A3	NHH-65B-R2B	72	11.9	99	2	a	Front	48	7	Retained	03/30/2021
A3	NHH-65B-R2B	72	11.9	99	2	b	Front	48	-7	Retained	03/30/2021
R1	MT6407-77A	35.1	16.1	50	3	a	Front	48	0	Added	
A2	LPA-80080/6CF	70.9	5.5	3	4	a	Front	48	0	Retained	03/30/2021

Plan View

Front View
Looking at Structure



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A3	NHH-65B-R2B	72	11.9	99	2	b	Front	48	-7	Retained	03/30/2021
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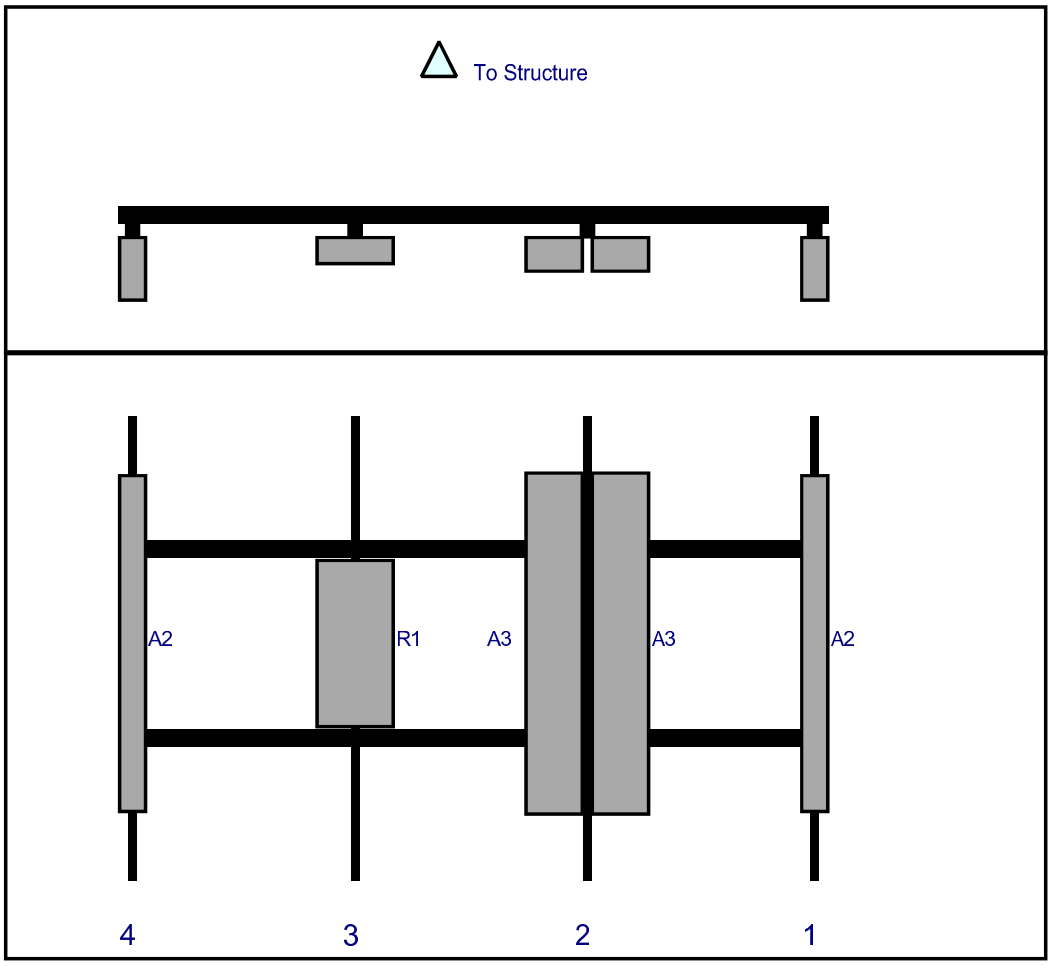
A2	LPA-80080/6CF	70.9	5.5	3	4	a	Front	48	0	Retained	03/30/2021

Plan View

Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A2	LPA-80080/6CF	70.9	5.5	147	1	a	Front	48	0	Retained	03/30/2021
A3	NHH-65B-R2B	72	11.9	99	2	a	Front	48	7	Retained	03/30/2021
A3	NHH-65B-R2B	72	11.9	99	2	b	Front	48	-7	Retained	03/30/2021
R1	MT6407-77A	35.1	16.1	50	3	a	Front	48	0	Added	
A2	LPA-80080/6CF	70.9	5.5	3	4	a	Front	48	0	Retained	03/30/2021

Maser Consulting Connecticut

Subject	TIA-222-H Usage	
Site Information	Site ID:	467801-VZW / EAST HARTLAND CT
	Site Name:	EAST HARTLAND CT
	Carrier Name:	Verizon Wireless
	Address:	22 Welsh Road East Hartland, Connecticut 06027 Hartford County
	Latitude:	41.997522°
	Longitude:	-72.887733°
Structure Information	Tower Type:	Self Support
	Mount Type:	12.50-Ft Sector Frame

To Whom It May Concern,

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

The 2015 International Building Code states that, in Section 3108, telecommunication towers shall be designed and constructed in accordance with the provisions of TIA-222. 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.

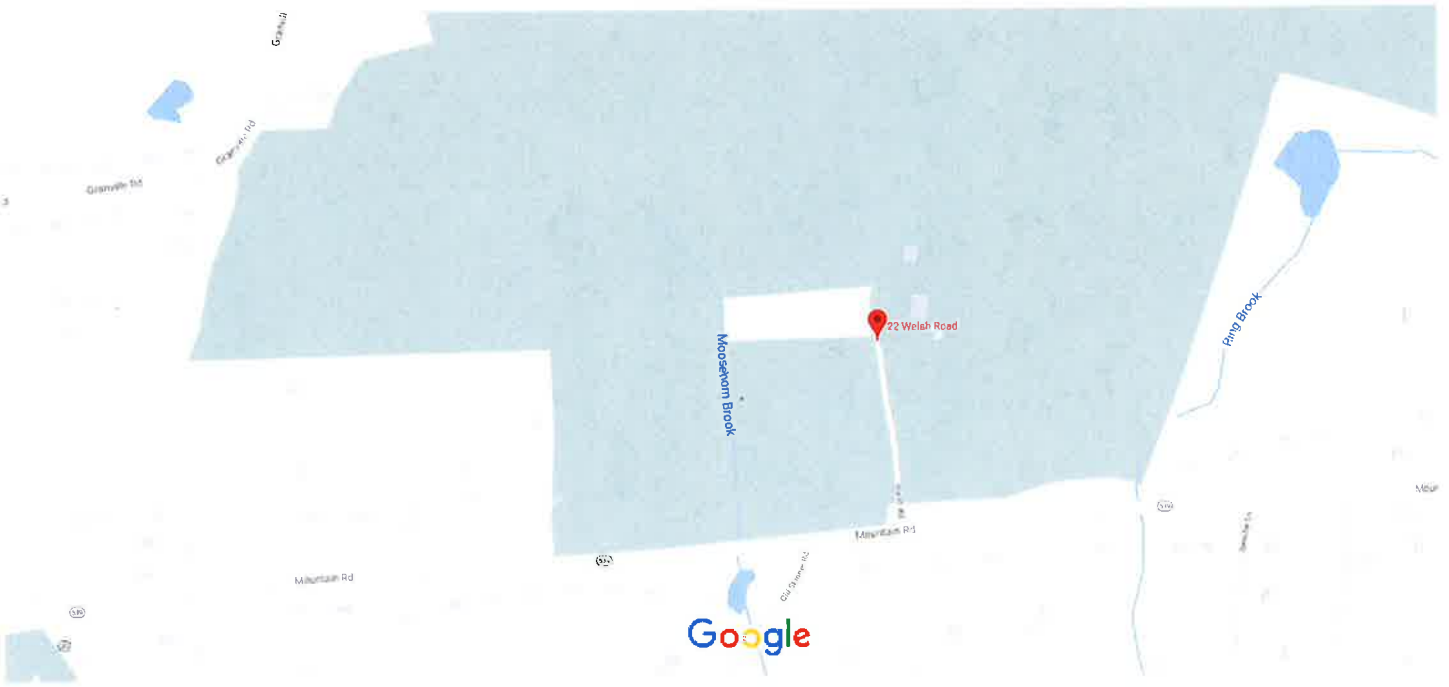
Sincerely,

Digitally signed by Justin Linette
Date: 2021.05.04 16:44:02-04'00'

Justin Linette, PE
Sr. Technical Manager

ATTACHMENT 5

Google Maps 22 Welsh Rd



Map data ©2020 200 ft

22 Welsh Rd

East Hartland, CT 06027

Directions Save Nearby Send to your phone Share

ADMINISTRATIVE INFORMATION

PARCEL NUMBER
17-16-048

Parent Parcel Number

Property Address
WELSH RD

Neighborhood
1 East Hartland

Property Class
901 Exempt BAAX Municipal

TAXING DISTRICT INFORMATION

Jurisdiction 065

Area 065

Routing Number 98100966

OWNERSHIP

TOWN OF HARTLAND
SOUTH RD
EAST HARTLAND, CT 06027

Census Tract: 3301

Tax ID 17-16-048 Printed 02/12/2020 Card No. 1 of 2

TRANSFER OF OWNERSHIP

Date			
10/08/1996	NA	Bk/Pg: 60, 479	$0
12/21/1981	NA	Bk/Pg: 41, 86	$0

EXEMPT

VALUATION RECORD

Assessment Year		10/01/2003	10/01/2005	10/01/2006	10/01/2008	10/01/2011	10/01/2015
Reason for Change		Survey	2005	2006	Partial	2011 Reval	2015 Reval
VALUATION	L	51130	51130	51130	51130	46020	128510
Market Value	B	508000	530660	630660	930660	1033470	942540
	T	559130	581790	681790	981790	1079490	1071050
VALUATION	L	35791	35790	35790	35790	32210	89960
70% Assessed/Use	B	355600	371470	441470	651470	723430	659780
	T	391391	407260	477260	687260	755640	749740

Site Description

Topography:

Public Utilities:

Street or Road:

Neighborhood:

Zoning:
R-1

Legal Acres:
17.0440

LAND DATA AND CALCULATIONS

	Land Type	Rating Soil ID -or- Actual Frontage	Measured Acreage -or- Effective Frontage	Table Effective Depth	Prod. Factor -or- Depth Factor -or- Square Feet	Base Rate	Adjusted Rate	Extended Value	Influence Factor	Value
1	Primary Commercial		1.0000		1.00	90000.00	90000.00	90000		90000
2	Res Excess Acres		16.0440		1.00	2400.00	2400.00	38510		38510

G: GENERAL NOTES
INCLUDES TOWN GARAGE AND SAND & SALT SHED
ADDED CELL TOWER - 12/08
L: LAND NOTES
SEE MAP T28

Permit Number Type	FilingDate	Est. Cost Est. SqFt	Field Visit

Supplemental Cards

TRUE TAX VALUE 128510

Supplemental Cards
TOTAL LAND VALUE 128510

IMPROVEMENT DATA

PHYSICAL CHARACTERISTICS

ROOFING

Shingle

WALLS

	B	1	2	U
Frame		Yes		
Brick				
Metal				
Guard				

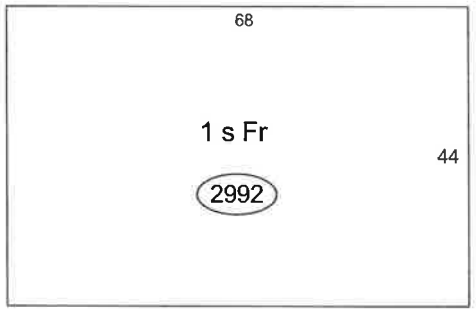
FRAMING

	B	1	2	U
Wd Jst	0	2992	0	0

HEATING AND AIR CONDITIONING

	B	1	2	U
Heat	0	2992	0	0

01



Item Description	Units	Cost	Total	Pct
M & S Cost Database Date: 01/2016				
Base Cost	2992	76.00	227392	
Exterior Walls	2992	14.02	41948	
Basic Structure Cost	2992	90.02	269340	
Physical	0	0.00	64642	24.00
Depreciated Cost	2992	68.42	204698	
Rounded Total	0	0.00	204700	
Total Exterior Features Value				
Depreciated Ext Features				
Total Before Adjustments			204700	
Neighborhood Adjustment				
TOTAL VALUE			204700	

(LCM: 100.00)

SPECIAL FEATURES

Description	Value

SUMMARY OF IMPROVEMENTS

ID	Use	Stry Hgt	Const Type	Grade	Year Const	Eff Year	Cond	Base Rate	Feat-ures	Adj Rate	Size or Area	Computed Value	Phys Depr	Obsol Depr	Market Adj	% Comp		Value
C	STORGAR	0.00		Avg+	2001	2001	AV	0.00	N	0.00	2992		0	0	0	100	100	204700
01	TOWER	200.00		Avg	2005	2005	AV	0.00	N	0.00	1@ 0		0	0	SV	100	100	100000

Data Collector/Date	Appraiser/Date	Neighborhood	Supplemental Cards TOTAL IMPROVEMENT VALUE	304700
01/01/1900	01/01/1900	Neigh 1 AV		

TRANSFER OF OWNERSHIP

Date

VALUATION RECORD

Assessment Year

Reason for Change

VALUATION

Site Description

LAND DATA AND CALCULATIONS

Land Type	Rating Soil ID -or- Actual Frontage	Measured Acreage -or- Effective Frontage	Table Effective Depth	Prod. Factor -or- Depth Factor -or- Square Feet	Base Rate	Adjusted Rate	Extended Value	Influence Factor	Value

Supplemental Cards
TOTAL LAND VALUE

IMPROVEMENT DATA

PHYSICAL CHARACTERISTICS

ROOFING

Shingle
Insulation

WALLS

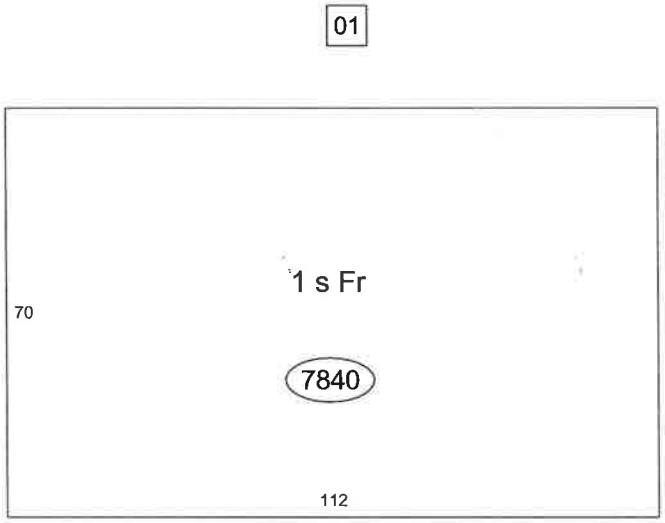
	B	1	2	U
Frame		Yes		
Brick				
Metal				
Guard				

FRAMING

	B	1	2	U
Wd Jst	0	7840	0	0

HEATING AND AIR CONDITIONING

B	1	2	U



(LCM: 100.00)

SPECIAL FEATURES

Description	Value

SUMMARY OF IMPROVEMENTS

ID	Use	Stry Hgt	Const Type	Grade	Year Const	Eff Year	Cond	Base Rate	Feat-ures	Adj Rate	Size or Area	Computed Value	Phys Depr	Obsol Depr	Market Adj	% Comp	Value
C	SERVGAR	0.00		Avg	2001	2001	AV	0.00	N	0.00	7840		0	0	0	100 100	337840
01	TOWER	200.00		Avg	2008	2008	AV	0.00	N	0.00	1		0	0	SV	100 100	300000

Data Collector/Date	Appraiser/Date	Neighborhood	Supplemental Cards TOTAL IMPROVEMENT VALUE	637840
01/01/1900	01/01/1900	Neigh 1 AV		

ATTACHMENT 6

UNITED STATES POSTAL SERVICE®

EAST HARTLAND

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		2	neopost 10/25/2021 US POSTAGE $002.99⁰ ZIP 06103 041L12203937
	Postmaster, per *(name of receiving employee)*		

USPS® Tracking Number / Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Magi Winslow, First Selectman Town of Hartland 22 South Road East Hartland, CT 06027				
2.	Scott Eisenlohr, Zoning Enforcement Officer Town of Hartland 22 South Road East Hartland, CT 06027				
3.					
4.					
5.					
6.					

OLD STATE HOUSE STATION 06103 OCT 25 2021 USPS